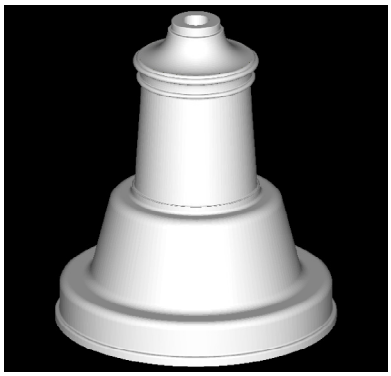
IES ROAD REPORT
PHOTOMETRIC FILENAME : BC-20 42CFL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST] Photopia 3.0.0.123 PHOTOMETRIC REPORT
[DATE] Tue Nov 27 16:38:46 2007
[LUMINAIRE] PROJECT: BC-20
[LAMP] Fluor. 42W DULUX triple tube
[LAMPCAT] CF42DT/E/IN/830

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Cutoff Classification	Full Cutoff
Total Rated Lamp Lumens	3200
Maximum Candela	902.24
Maximum Candela Angle	75H 57.5V
Maximum Candela At 90 Degrees Vertical	0 (0.00% Lamp Lms)
Maximum Candela At 80 Degrees Vertical	174.81 (5.46% Lamp Lms)
Downward Total Efficiency	79.7%



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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	**5**	**10**	**15**	**20**	**25**	**30**	**35**	**40**	**45**
0	492.39	492.39	492.39	492.39	492.39	492.39	492.39	492.39	492.39	492.39
2.5	543.37	527.57	465.5	508.41	520.54	488.21	547.89	465.55	505.67	533.18
5	505.14	482.33	530.6	485.26	469.16	499.37	525.08	475.11	549.5	517.87
7.5	514.21	497.5	486.65	528.14	536.79	528.52	515.39	518.72	529.98	536.41
10	518.01	539.09	531.21	520.64	559.36	524.79	558.46	556.41	569.31	572.83
12.5	520.62	536.6	556.67	553.65	564.01	562.25	568.11	601.42	594.67	591.54
15	581.98	563.49	567.94	578.82	589.73	583.8	586.14	626.38	614.18	613.91
17.5	596.61	596.4	605.24	607.13	611.25	637.79	632.86	646.74	639.08	667.81
20	568.9	629.18	606.73	641.55	651.13	650.86	671.21	683.16	678.97	675.44
22.5	636.44	613.63	659	661.69	671.09	673.89	699.83	700.35	693.94	681.33
25	640.1	651.23	657.42	662.31	697.15	707.88	699.21	725.33	702.69	700.55
27.5	654.85	642.67	649.67	679.87	704.86	724.21	730.4	734.11	722.82	715.31
30	633.02	659.37	657.68	701.04	699.99	696.81	728.04	724.7	717.1	691.45
32.5	630.13	643.14	648.34	655.93	682.94	701.93	702.22	711.47	719.63	686.36
35	601.92	620.62	631.86	653.73	672.88	663.94	674.78	677.98	666.66	662.01
37.5	592.97	605.5	588.76	616.56	640.54	629.05	655.47	654.02	654.49	639.16
40	568.87	555.11	569.29	602.53	611.15	610.3	623.13	615.02	608.78	608.9
42.5	508.56	537.13	548.01	555.21	575.83	589.8	586.39	595.42	589.07	588.32
45	512.11	488.87	497.74	528.83	535.92	554.66	567.05	574.42	554.41	566.92
47.5	447.63	460.96	472.57	496.05	499.94	528.82	537.01	562.42	576.45	598.22
50	428.09	420.4	430.01	470.32	479.31	501.9	513.89	561.84	583	609.01
52.5	395.6	389.88	401.07	425.75	467.16	494.81	518.06	556.18	607.09	653.25
55	356.96	360.18	382.84	410.75	449.41	479.7	527.9	572.67	613.03	672.92
57.5	329.46	323.56	356.95	396.02	446.61	493.53	548.03	591.79	632.7	671.12
60	282.68	304.49	333.75	394.63	445.17	517.13	559.39	611.95	636.61	674.48
62.5	276.89	285.35	332.86	388.64	459.3	509.18	549.64	589.36	609.12	629.09
65	249.77	267.87	306.81	371.62	425.82	476.06	503.16	531.77	567	586.91
67.5	176.32	204.28	237.6	302.85	375.08	412.65	447.67	475.94	497.66	526.23
70	114.69	133.17	182.72	244.27	295.98	343.71	373.32	402.04	426.82	433.87
72.5	90.56	104.41	139.87	192.47	231.42	274.28	301.81	313.09	323.67	354.4
75	81	84.34	110.48	139.22	174.55	203.79	225.21	237.08	246.69	256.73
77.5	61.59	59.55	73.92	87.63	100.39	124.05	139.89	146.57	152.76	165.54
80	40.82	40.51	40.8	46.89	51.72	55.85	67.75	78.33	84.98	91.51
82.5	15.5	16.72	19.68	18.08	18.16	20.18	21.4	26.33	30.59	38.06
85	2.32	1.63	2.15	2.14	3.18	3.06	3.38	3.79	6.32	10.14
87.5	0.24	0.28	0.32	0.29	0.27	0.38	0.44	0.54	0.88	1.71
90	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

132.5	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**									
	50	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**
0	492.39	492.39	492.39	492.39	492.39	492.39	492.39	492.39	492.39	492.39
2.5	509.28	462.72	473.69	501.6	492.21	476.91	478.73	508.9	539.48	460.45
5	536.4	527.68	501	490.17	539.9	523.82	547.58	465.61	516.04	532.77
7.5	514.95	536.21	549.09	549.88	566.79	534.75	520.88	558.11	539.5	578.52
10	522.49	582.32	542.12	555.5	549.37	565.18	578.68	562.8	561.41	573.83
12.5	606.48	600.84	608.21	601.77	601.16	612.38	607.02	576.7	592.16	581.35
15	608.06	624.88	618.75	611.46	614.71	600.3	566.55	593.56	600.18	552.35
17.5	658.79	626.36	633.96	605.78	601.98	586.89	600.83	584.47	556.74	572.5
20	654.04	651.81	605.59	635.42	614.16	584.69	586.9	558.24	565.8	567.11
22.5	675.92	669.98	650.64	627.08	581.22	586.2	567.69	559.85	552.16	560.23
25	671.32	653.87	616.79	600.38	586.27	551.69	553.86	528.42	536.93	543.57
27.5	692.37	637.09	617.15	576	551.31	539.17	524.52	518.46	526.5	517.57
30	679.47	643.01	596.58	569.8	542.23	523.03	510.81	527.01	506.09	530.13
32.5	658.08	616.55	594.8	558.38	532.61	530.23	517.66	536.83	533.75	548.67
35	657.53	614.38	578.18	554.4	530.51	513.12	536.82	560.03	551.45	573.07
37.5	613.7	601.54	581.01	565.21	561.94	560.89	591.29	603.9	621.09	633.09
40	582.97	576.55	561.28	576.26	600.95	611.41	627.66	648.38	661.76	669.84
42.5	569.41	577.13	592.33	598.07	627.38	666	657.33	675.61	678.88	718.78
45	585.71	602.39	617.88	650	674.1	718.98	712.87	720.88	711.71	702.7
47.5	615.05	636.68	670.48	696.16	715.79	742.73	751.34	751.13	728.96	727.93
50	648.66	674.92	707.77	743.05	779.25	777.65	778.41	764.44	756.19	711.34
52.5	667.9	714.81	772.11	790.88	815.09	815.09	819	799.2	747.32	722.42
55	695.61	747.35	789.78	823.72	851.43	858.53	852.49	834.8	782.99	716.32
57.5	721.08	759.21	796.91	851.77	869.21	902.24	881.35	843.87	767.81	737.2
60	710.77	731.72	789.21	835.49	874.96	900.04	888.03	840.03	775.28	708.41
62.5	670.42	702.27	751.35	796.11	844.6	866.47	865.52	807.87	754.89	676.25
65	618.69	636.87	699.11	725.98	783.68	774.19	811.09	777.68	709.33	637.3
67.5	547.16	574.4	616.18	632.97	686.41	698.64	710.88	681.89	644.78	586.22
70	451.43	485.83	509.48	536.65	555.54	584.91	607.29	605.95	561.48	506.91
72.5	370.64	383.54	402.22	431.2	448.24	472.16	474.12	476.37	459.21	418.56
75	273.25	290.18	306.08	318.46	336.55	360.66	373.39	367.59	329.25	319.34
77.5	187.3	192.99	210.96	222.84	241.28	248.4	258.62	257.57	245.83	216.09

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CANDELA TABULATION - (Cont.)

80	102.87	116.32	130.34	141.98	152.09	164.93	174.81	167.87	168.7	140.48
82.5	38.44	51.04	60.19	73.13	78.73	92.93	95.02	91.35	88.75	84.22
85	16.01	18.1	21.15	25.56	31.72	30.97	32.95	30.28	28.72	29.81
87.5	3.39	5.34	4.94	8.84	8.5	7.92	7.22	6.56	7.32	6.52
90	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**									
	100	**105**	**110**	**115**	**120**	**125**	**130**	**135**	**140**	**145**
0	492.39	492.39	492.39	492.39	492.39	492.39	492.39	492.39	492.39	492.39
2.5	546.23	514.36	498.34	471.24	451.19	472.23	430.27	477.53	514.7	485.74
5	541.87	483.31	495.45	491.46	534.57	511.77	489.24	511.51	521.65	503.71
7.5	532.35	533.87	538.53	541.34	532.13	556	499.45	511.23	531.62	517.87
10	581.55	541.78	552.38	578.07	545.47	567.74	562.98	559.16	534.6	560.56
12.5	588.17	571.35	584.56	570.79	574.98	563.08	545.88	541.42	551.57	559.44
15	568.47	582.76	554.89	547.29	551.16	543.65	580.7	580.3	608.6	555.62
17.5	569.25	587.15	565.5	597.69	588.57	586.65	571.98	575.13	564.15	576.8
20	558.75	574.04	593.21	571.94	578.76	591.45	587.32	576.47	583.33	576.55
22.5	553.3	564.03	543.34	583.14	574.34	596.25	608.68	614.51	594.63	579.49
25	541.64	553	548.95	577.68	583.27	577.99	606.61	601.91	634.66	601.78

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CANDELA TABULATION - (Cont.)

27.5	544.56	551.2	568.46	564.87	580.95	600.74	590.66	620.3	625.93	635.77
30	533.76	559.85	549.18	555.36	588.43	595.05	606.64	607.12	633.71	619.14
32.5	556.71	575.76	573.06	581.48	574.94	585.06	601.28	595.07	627.48	628.53
35	593.73	610.55	603.27	605.84	595.67	606.79	600.26	613.03	611.5	626.43
37.5	641.59	644.17	651.64	639.92	636.19	618.12	609.53	608.71	596.17	611.38
40	678.46	690.36	684.75	664.63	657.64	617.31	605.41	593.78	573.78	577.83
42.5	699.24	717.31	705.41	683.97	663.51	654.39	600.4	588.29	561.16	546.24
45	734.27	709.43	699.1	675.33	658.02	639.97	620.1	575.5	550.31	530.63
47.5	714.21	723.13	700.57	683.27	675.37	636.64	588.42	558.94	533.96	510.58
50	715.55	690.67	694.92	666.59	658.03	633.57	588.54	538.77	507.69	482.69
52.5	688.57	673.66	666.92	635.31	622.78	588.61	558.81	523.04	486.87	464.83
55	683.35	652.87	625.66	610.12	568.18	549.07	520.79	500.71	441.88	419.84
57.5	654.5	619.65	579.11	545.33	527.67	498.77	474.34	437.07	419.61	388.59
60	643.85	578.36	509.82	496.42	460.46	442.06	415.08	387.95	387.06	349.14
62.5	588.26	519.62	474.45	444.16	405.2	397.74	373.9	352.74	339.79	315.94
65	548.86	474.07	418.06	390.8	366.65	339.7	325.92	307.28	294.24	286.52
67.5	498.48	436.04	371.52	339.55	313.32	300.27	282.58	266.28	254.76	250.89
70	440.3	372.22	320.61	289.59	267.87	248.36	247.67	229.8	221.55	218.96
72.5	364.63	310.45	265.04	239.33	225.44	207.21	202.86	194.69	185.77	181.98
75	275.85	237.88	211.72	194.39	182.7	178.97	173.26	165.94	155.4	148.97
77.5	195.28	177.34	154.59	152.39	144.51	141.17	129.51	134	126.91	121.79
80	119.02	107.19	112.45	104.07	106.55	96.23	95.13	90.87	81.67	79.83
82.5	70.92	60.11	59.01	61.06	55.38	52.66	46.61	42.74	38.15	35.84
85	26.59	25.66	20.91	20.87	19.64	17	15.54	14.72	10.45	9.75
87.5	5.7	5.82	6.05	5.39	6.19	3.11	2.54	2.12	1.63	1.5
90	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

167.5	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**						
	150	**155**	**160**	**165**	**170**	**175**	**180**
0	492.39	492.39	492.39	492.39	492.39	492.39	492.39
2.5	550.96	432.42	510.06	496.25	491.36	481.17	506.68
5	528.39	528.51	479.42	486.65	477.03	441.86	542.23
7.5	531.27	517.23	533.14	511.3	495.76	464.76	506.29
10	552.93	528.38	513.87	528.19	509.31	520.45	476.08
12.5	557.76	553.53	553.98	493.49	524.47	510.43	487.01
15	525.7	569.1	541.54	536.64	549.83	531.65	509.71
17.5	599.5	558.99	560.74	544.49	529.03	539.6	510.09
20	604.24	598.12	582.66	583.35	554.62	558.23	539.49
22.5	603.76	598.8	602.93	592.42	583.29	547.17	550.16
25	614.89	596.91	586.2	592.06	582.71	574.27	549.82
27.5	620.13	606.83	612.75	601.2	569.41	580.12	559.65
30	617.71	618.36	610.38	600.36	574.69	566.39	556.74
32.5	621.33	616.31	606.8	577.16	573.24	548.48	551.42
35	620.85	612.9	592.34	588.9	564.72	552.94	528.27
37.5	609.27	602.69	588.78	555.32	547.84	514.57	507.82
40	574.5	577.31	559.21	540.36	512.56	491.64	490.07
42.5	565.89	570.38	545.2	532.82	507.2	453.84	455.71
45	520.81	528.26	529.35	485.62	461.17	429.88	407.46
47.5	495.38	501.55	487.24	459.17	437.02	398.76	393
50	473.21	464.32	450.72	411.97	405.67	386.11	376.42
52.5	434.22	421.19	414.25	382.93	365.35	342.44	329.63
55	399.73	384.02	376.24	354.61	322.52	311.32	314.78
57.5	368.3	351.41	343.27	313.84	304.26	294.62	286.38
60	330.98	312.28	304.12	294.43	278.05	259.69	256.66
62.5	294.11	277.99	266.61	264.87	244.63	236.63	225.26
65	275.65	245.55	245.56	236.46	217.5	217.05	208.99
67.5	238.09	219.15	203.04	210.33	191.14	182.84	182.01
70	203.46	193.82	182.21	178.31	163.31	160.97	145.63
72.5	166.08	160.73	160.09	149.75	143.05	132.77	128.35
75	150.66	135.74	125.47	122.41	117.5	104.48	109.95
77.5	110.94	106.94	100.71	92.15	85.9	81.99	77.6
80	69.4	63.72	62.18	53.98	53.2	49	40.5
82.5	32.59	32.12	28.16	24.25	20.56	19.37	21.45
85	8.25	7.03	6.26	5.2	6.45	5.05	6.34
87.5	1.41	1.41	1.11	0.93	0.84	1.12	1.13
90	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

115	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0

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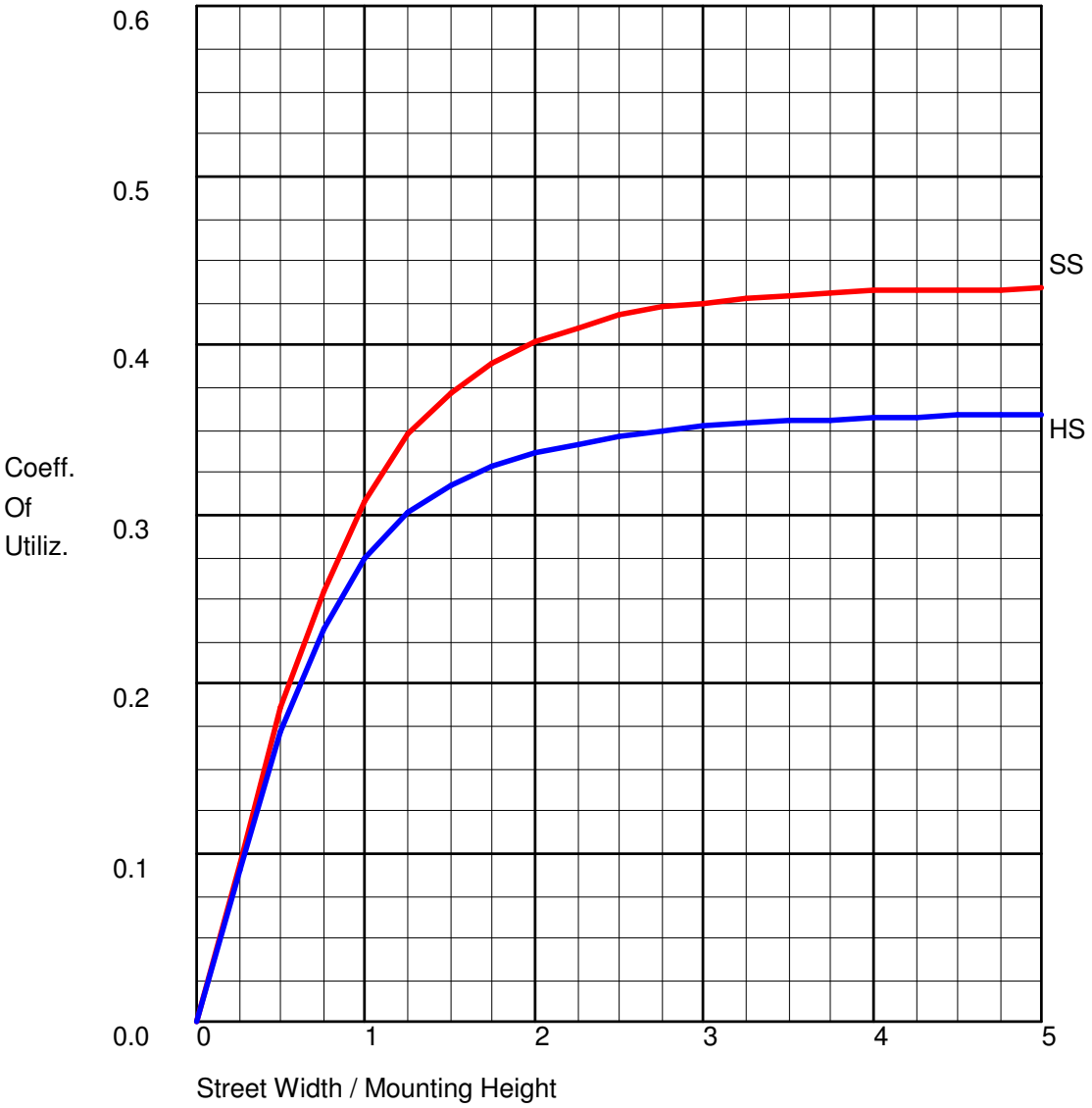
PHOTOMETRIC FILENAME : BC-20 42CFL.IES

COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Lamp
Downward Street Side	1394.0	43.6
Downward House Side	1156.4	36.1
Downward Total	2550.4	79.7
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	2550.4	79.7

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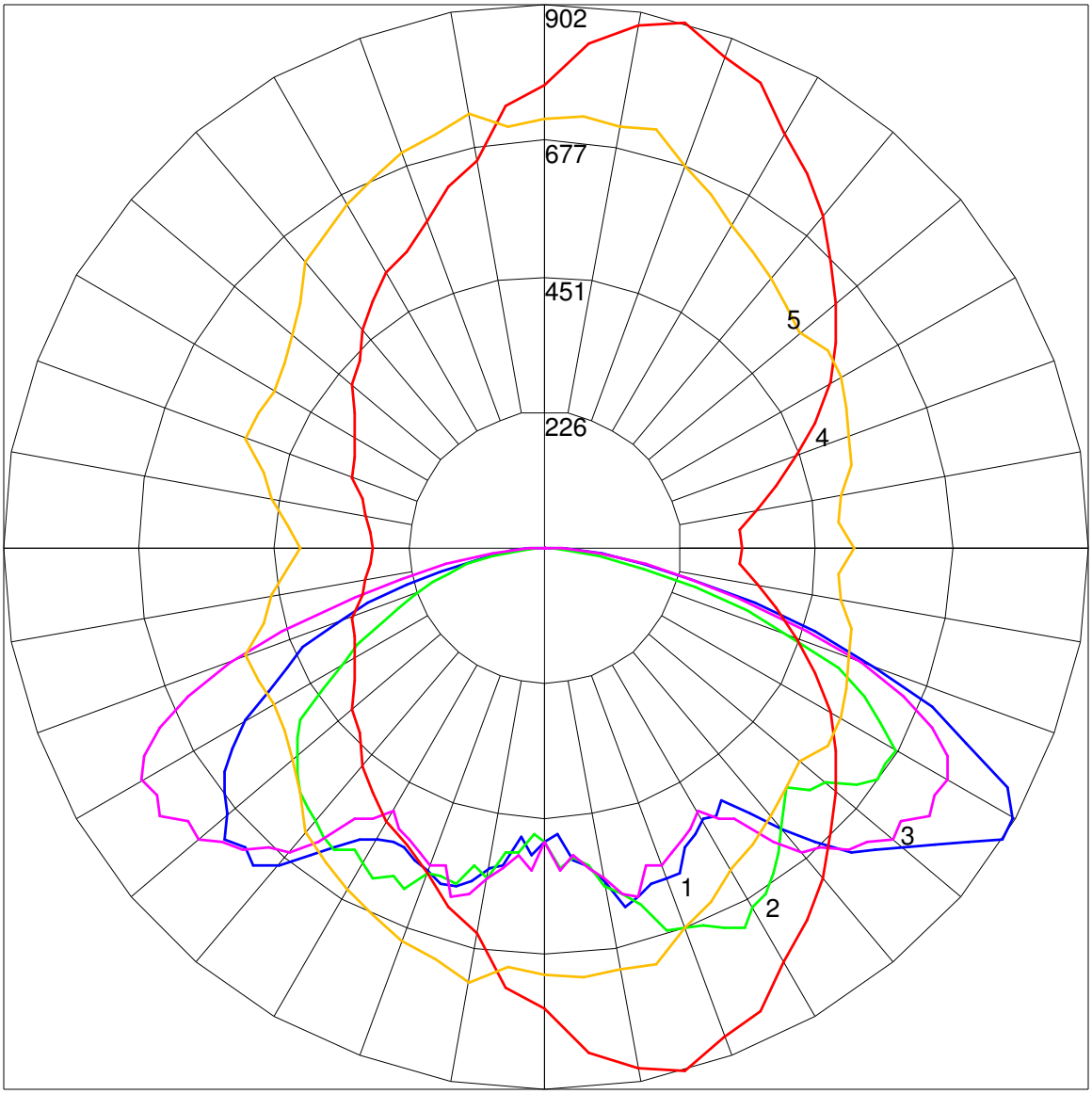
POLAR GRAPH



Maximum Candela = 902.24 Located At Horizontal Angle = 75, Vertical Angle = 57.5
1 - Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (45 - 225)
3 - Vertical Plane Through Horizontal Angles (90 - 270)
4 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)
5 - Horizontal Cone Through Vertical Angle (45)

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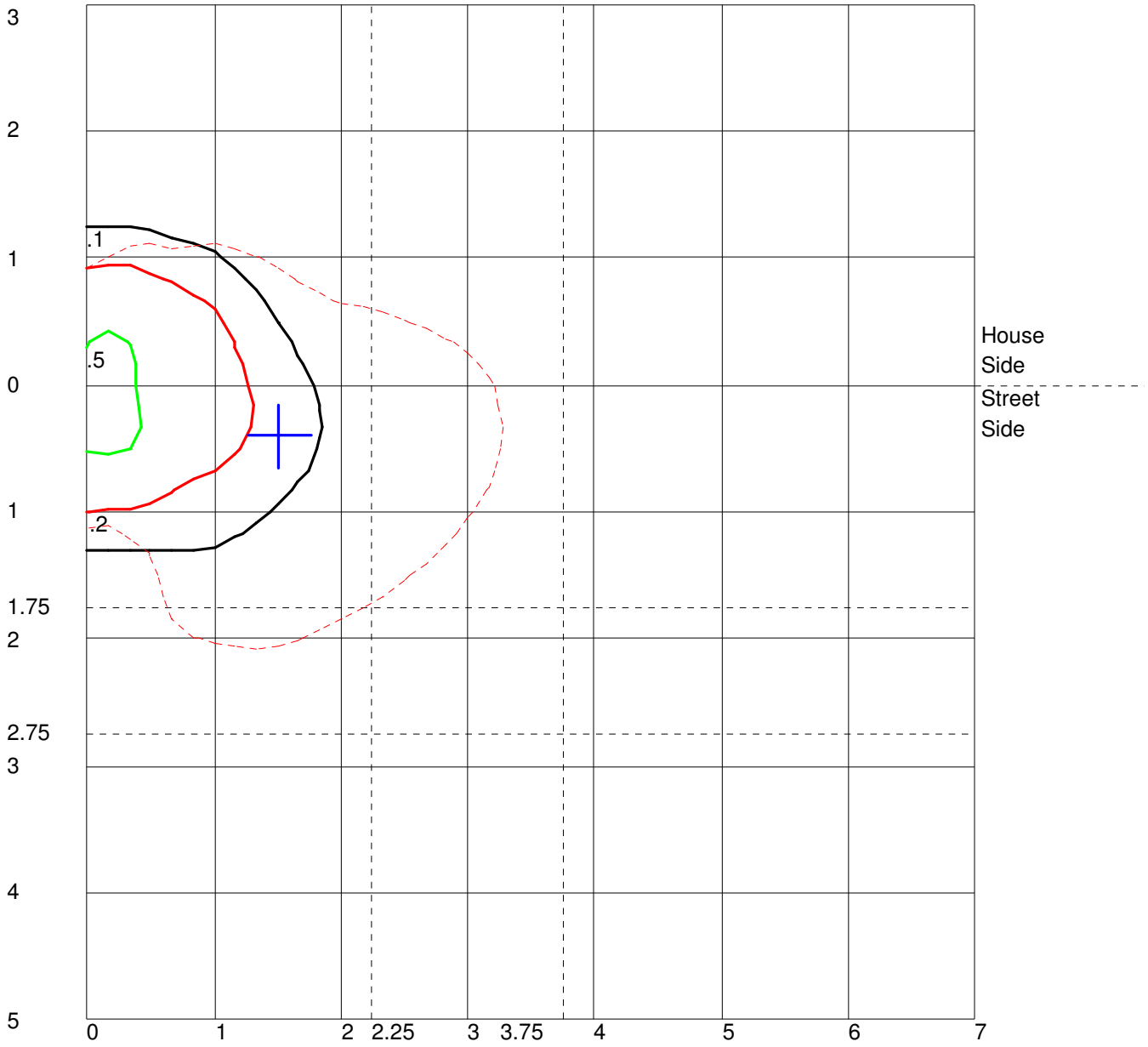
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height

Values Based On 30 Foot Mounting Height

1/2 Maximum Candela Trace Shown As Dashed Curve

(+) = Maximum Candela Point

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