

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P684638

Luminaire Tested: **LX6C80D010 EX6C809027 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C80D010 EX6C809027 6LBLWWH
Description: 6 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

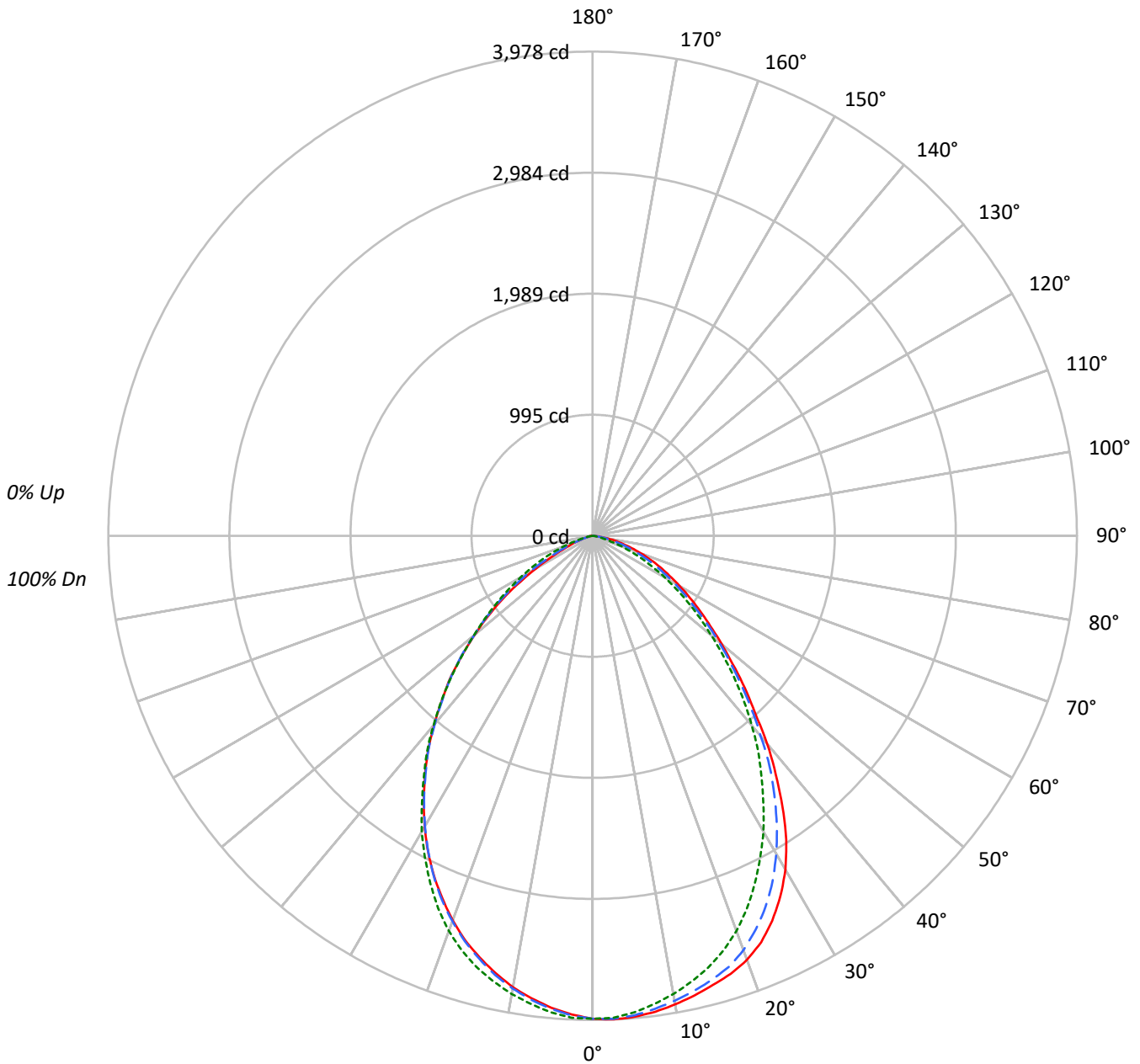
Lumens per Lamp: N/A
Luminaire Lumens: 7218.0 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 89.5
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68																			
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39																			
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	217537	217537	217537
5°	218297	216310	214186
10°	217626	212799	209682
15°	216806	208406	203560
20°	216325	201542	196169
25°	211059	190729	186531
30°	200531	177648	174691
35°	182011	161746	160676
40°	159692	145566	144800
45°	136913	127191	128230
50°	117855	108414	107843
55°	103002	91533	85923
60°	90519	75027	58647
65°	79243	58139	35296
70°	67559	39125	20741
75°	54520	20334	11311
80°	37884	7987	6314
85°	15096	2516	3334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.8	5.2
10°-20°	1038.3	14.4
20°-30°	1477.5	20.5
30°-40°	1555.1	21.5
40°-50°	1296.0	18.0
50°-60°	875.6	12.1
60°-70°	443.9	6.2
70°-80°	143.3	2.0
80°-90°	16.4	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2887.6	40.0
0°-40°	4442.7	61.6
0°-60°	6614.3	91.6
0°-90°	7218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7218.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3968	3968	3968	3968	3968	
5°	3967	3955	3931	3902	3892	377
15°	3820	3779	3672	3599	3587	1079
25°	3489	3363	3153	3088	3084	1599
35°	2720	2602	2417	2393	2401	1692
45°	1766	1721	1641	1647	1654	1367
55°	1078	1026	958	928	899	970
65°	611	551	448	324	272	608
75°	257	201	96	52	53	278
85°	24	13	4	5	5	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2
2.5°	3977.5	3977.5	3977.5	3977.5	3977.5	3977.5	3976.2	3976.2	3973.5	3973.5	3972.2
5°	3966.9	3968.2	3968.2	3966.9	3966.9	3964.2	3964.2	3962.8	3958.8	3956.2	3954.8
7.5°	3944.2	3944.2	3942.8	3941.5	3940.2	3936.2	3934.8	3930.8	3928.2	3925.5	3920.2
10°	3909.5	3909.5	3908.2	3905.5	3904.2	3901.5	3901.5	3896.2	3890.8	3884.2	3880.2
12.5°	3868.1	3869.5	3866.8	3865.5	3861.5	3860.1	3857.5	3850.8	3846.8	3838.8	3832.1
15°	3820.1	3822.8	3822.8	3817.5	3813.5	3812.1	3808.1	3804.1	3794.8	3786.8	3778.8
17.5°	3773.4	3776.1	3773.4	3769.4	3765.4	3760.1	3757.4	3749.4	3737.4	3726.8	3714.8
20°	3708.1	3712.1	3706.8	3700.1	3692.1	3690.7	3686.7	3673.4	3656.1	3640.1	3622.7
22.5°	3616.0	3613.4	3609.4	3606.7	3593.4	3585.4	3580.0	3562.7	3544.0	3522.7	3501.3
25°	3489.3	3494.7	3486.7	3474.7	3468.0	3460.0	3446.7	3428.0	3410.6	3388.0	3362.6
27.5°	3339.9	3339.9	3329.3	3325.3	3310.6	3299.9	3293.3	3274.6	3251.9	3229.2	3201.2
30°	3167.9	3159.9	3159.9	3141.2	3129.2	3125.2	3118.5	3087.8	3067.8	3043.8	3015.8
32.5°	2959.8	2958.5	2953.1	2941.1	2925.1	2911.8	2911.8	2890.4	2863.8	2834.4	2817.1
35°	2719.7	2721.0	2718.4	2705.0	2705.0	2689.0	2686.4	2667.7	2646.3	2623.7	2602.3
37.5°	2471.6	2476.9	2471.6	2464.9	2460.9	2459.6	2447.6	2434.3	2418.3	2404.9	2388.9
40°	2231.5	2223.5	2226.2	2212.8	2214.2	2211.5	2206.2	2188.8	2179.5	2166.2	2148.8
42.5°	1972.8	1980.8	1983.4	1975.4	1972.8	1967.4	1972.8	1966.1	1955.4	1948.7	1932.7
45°	1766.0	1758.0	1762.0	1759.3	1760.7	1750.0	1746.0	1743.3	1739.3	1727.3	1720.7
47.5°	1560.6	1561.9	1560.6	1555.3	1552.6	1552.6	1547.3	1539.3	1539.3	1531.3	1525.9
50°	1381.9	1381.9	1384.5	1377.9	1375.2	1369.9	1371.2	1363.2	1357.9	1351.2	1347.2
52.5°	1217.8	1219.1	1213.8	1215.1	1212.5	1212.5	1207.1	1201.8	1196.5	1184.5	1181.8
55°	1077.7	1079.1	1072.4	1075.1	1067.1	1063.1	1060.4	1052.4	1052.4	1040.4	1025.7
57.5°	947.0	945.7	944.4	940.4	935.0	931.0	927.0	917.7	913.7	905.7	893.7
60°	825.6	824.3	821.6	820.3	816.3	807.0	807.0	800.3	787.0	779.0	767.0
62.5°	710.9	710.9	709.6	705.6	701.6	697.6	694.9	689.6	676.3	666.9	656.3
65°	610.9	609.6	605.6	598.9	596.2	596.2	586.9	582.9	572.2	562.9	550.9
67.5°	514.9	509.5	506.9	508.2	500.2	500.2	492.2	485.5	476.2	460.2	450.8
70°	421.5	418.8	416.2	413.5	412.2	406.8	402.8	394.8	385.5	373.5	358.8
72.5°	337.5	337.5	333.5	330.8	326.8	321.5	318.8	312.1	301.4	288.1	277.4
75°	257.4	257.4	257.4	252.1	249.4	246.8	238.8	234.8	222.8	214.7	201.4
77.5°	189.4	186.7	182.7	181.4	178.7	176.1	172.1	165.4	154.7	145.4	137.4
80°	120.0	124.0	120.0	120.0	113.4	110.7	109.4	101.4	97.4	89.4	82.7
82.5°	66.7	68.0	65.4	64.0	60.0	58.7	58.7	53.4	50.7	45.4	41.3
85°	24.0	25.3	24.0	24.0	21.3	22.7	21.3	20.0	17.3	14.7	13.3
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2
2.5°	3972.2	3969.5	3969.5	3968.2	3966.9	3966.9	3966.9	3965.5	3962.8	3962.8	3961.5
5°	3952.2	3949.5	3945.5	3942.8	3941.5	3940.2	3938.8	3937.5	3932.2	3930.8	3926.8
7.5°	3916.2	3913.5	3906.8	3904.2	3900.2	3898.8	3893.5	3890.8	3885.5	3880.2	3877.5
10°	3873.5	3866.8	3861.5	3854.8	3852.1	3848.1	3841.5	3833.5	3829.5	3822.8	3817.5
12.5°	3825.5	3817.5	3806.8	3798.8	3796.1	3789.4	3778.8	3772.1	3762.8	3752.1	3742.8
15°	3765.4	3756.1	3746.8	3732.1	3728.1	3720.1	3709.4	3696.1	3682.7	3672.1	3661.4
17.5°	3700.1	3685.4	3670.7	3654.7	3642.7	3638.7	3621.4	3602.7	3590.7	3572.0	3560.0
20°	3608.0	3588.0	3564.0	3548.0	3537.4	3525.3	3505.3	3485.3	3470.7	3454.7	3437.3
22.5°	3481.3	3462.7	3434.6	3410.6	3402.6	3385.3	3368.0	3349.3	3330.6	3313.3	3291.9
25°	3331.9	3311.9	3283.9	3259.9	3246.6	3238.6	3205.2	3186.6	3167.9	3153.2	3138.5
27.5°	3178.5	3142.5	3123.9	3086.5	3074.5	3071.8	3041.2	3021.2	3001.1	2981.1	2962.5
30°	2989.1	2961.1	2933.1	2906.4	2890.4	2881.1	2858.4	2833.1	2819.7	2806.4	2787.7
32.5°	2793.1	2767.7	2733.0	2707.7	2695.7	2682.4	2662.4	2645.0	2625.0	2610.3	2606.3
35°	2583.7	2555.6	2526.3	2507.6	2505.0	2489.0	2468.9	2454.3	2439.6	2416.9	2412.9
37.5°	2359.6	2343.6	2323.6	2296.9	2284.9	2284.9	2264.9	2254.2	2235.5	2234.2	2223.5
40°	2139.5	2132.8	2102.1	2094.1	2091.5	2072.8	2067.5	2048.8	2035.4	2034.1	2018.1
42.5°	1922.1	1904.7	1899.4	1886.1	1874.1	1871.4	1859.4	1851.4	1846.0	1838.0	1830.0
45°	1706.0	1702.0	1688.6	1679.3	1675.3	1670.0	1666.0	1650.0	1647.3	1640.6	1636.6
47.5°	1519.2	1508.6	1496.6	1485.9	1484.6	1476.6	1467.2	1467.2	1452.6	1451.2	1448.6
50°	1333.8	1325.8	1319.2	1304.5	1307.2	1296.5	1295.2	1283.2	1276.5	1271.2	1277.8
52.5°	1171.1	1155.1	1152.4	1140.4	1136.4	1137.8	1123.1	1119.1	1116.4	1111.1	1108.4
55°	1016.4	1008.4	997.7	989.7	983.0	976.4	971.0	971.0	956.4	957.7	951.0
57.5°	880.3	873.7	860.3	848.3	845.7	837.7	831.0	824.3	823.0	813.6	807.0
60°	759.0	747.0	729.6	724.3	716.3	709.6	702.9	694.9	690.9	684.3	672.3
62.5°	645.6	625.6	618.9	608.2	598.9	594.9	584.2	574.9	568.2	558.9	549.5
65°	537.5	522.9	510.9	498.9	497.5	486.9	477.5	469.5	456.2	448.2	430.8
67.5°	438.8	425.5	412.2	400.2	390.8	388.1	373.5	364.1	354.8	338.8	324.1
70°	348.1	334.8	324.1	309.5	305.5	294.8	284.1	274.8	258.8	244.1	232.1
72.5°	265.4	250.8	238.8	228.1	221.4	212.1	201.4	190.7	174.7	160.1	149.4
75°	189.4	178.7	166.7	156.1	150.7	145.4	133.4	121.4	110.7	96.0	86.7
77.5°	128.0	117.4	106.7	97.4	90.7	86.7	78.7	69.4	60.0	52.0	45.4
80°	74.7	68.0	60.0	52.0	50.7	46.7	40.0	34.7	29.3	25.3	20.0
82.5°	36.0	32.0	26.7	22.7	20.0	18.7	16.0	13.3	10.7	9.3	9.3
85°	10.7	9.3	8.0	6.7	5.3	5.3	4.0	4.0	4.0	4.0	4.0
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2
2.5°	3957.5	3956.2	3954.8	3953.5	3950.8	3950.8	3946.8	3944.2	3944.2	3941.5	3940.2
5°	3922.8	3918.8	3917.5	3914.8	3912.2	3910.8	3905.5	3904.2	3901.5	3898.8	3898.8
7.5°	3873.5	3868.1	3862.8	3860.1	3858.8	3854.8	3852.1	3850.8	3846.8	3844.1	3838.8
10°	3808.1	3804.1	3797.5	3794.8	3792.1	3789.4	3782.8	3778.8	3777.4	3774.8	3772.1
12.5°	3732.1	3726.8	3720.1	3714.8	3712.1	3708.1	3701.4	3697.4	3697.4	3692.1	3692.1
15°	3650.7	3642.7	3630.7	3625.4	3624.1	3616.0	3610.7	3605.4	3598.7	3596.0	3596.0
17.5°	3546.7	3533.4	3522.7	3522.7	3517.3	3509.3	3501.3	3497.3	3493.3	3488.0	3485.3
20°	3424.0	3414.6	3402.6	3402.6	3390.6	3388.0	3380.0	3378.6	3369.3	3370.6	3366.6
22.5°	3275.9	3270.6	3263.9	3258.6	3251.9	3243.9	3239.9	3241.2	3237.2	3235.9	3234.6
25°	3126.5	3111.9	3103.9	3101.2	3098.5	3091.8	3089.2	3087.8	3087.8	3083.8	3085.2
27.5°	2954.5	2943.8	2933.1	2937.1	2931.8	2927.8	2925.1	2921.1	2923.8	2922.5	2923.8
30°	2778.4	2765.1	2758.4	2761.1	2759.7	2749.1	2754.4	2753.1	2754.4	2754.4	2757.1
32.5°	2593.0	2583.7	2582.3	2583.7	2571.7	2573.0	2567.6	2575.7	2577.0	2585.0	2578.3
35°	2404.9	2399.6	2390.2	2388.9	2390.2	2388.9	2388.9	2394.2	2392.9	2400.9	2398.3
37.5°	2211.5	2208.8	2199.5	2202.2	2196.8	2206.2	2208.8	2206.2	2215.5	2212.8	2211.5
40°	2022.1	2018.1	2012.8	2023.4	2016.8	2011.4	2020.8	2012.8	2015.4	2023.4	2023.4
42.5°	1830.0	1823.4	1823.4	1823.4	1822.0	1822.0	1826.0	1830.0	1827.4	1828.7	1839.4
45°	1636.6	1635.3	1631.3	1634.0	1632.6	1639.3	1639.3	1642.0	1647.3	1652.6	1650.0
47.5°	1449.9	1447.2	1451.2	1448.6	1449.9	1445.9	1448.6	1456.6	1463.2	1453.9	1463.2
50°	1275.2	1269.8	1268.5	1272.5	1271.2	1269.8	1272.5	1272.5	1269.8	1269.8	1279.2
52.5°	1108.4	1103.1	1099.1	1105.8	1101.8	1103.1	1097.8	1097.8	1100.4	1097.8	1093.8
55°	952.4	948.4	943.0	945.7	939.0	937.7	932.4	932.4	928.4	925.7	917.7
57.5°	803.0	800.3	788.3	787.0	788.3	779.0	769.6	765.6	755.0	752.3	751.0
60°	670.9	656.3	649.6	641.6	636.2	632.2	621.6	614.9	598.9	589.6	588.2
62.5°	533.5	526.9	518.9	506.9	504.2	490.9	480.2	462.8	454.8	442.8	430.8
65°	422.8	405.5	393.5	386.8	376.1	364.1	352.1	333.5	324.1	309.5	297.4
67.5°	309.5	294.8	278.8	273.4	264.1	249.4	237.4	221.4	213.4	200.1	196.1
70°	212.1	198.7	186.7	178.7	172.1	157.4	145.4	140.1	132.1	129.4	129.4
72.5°	136.1	124.0	110.7	106.7	101.4	93.4	85.4	82.7	85.4	84.0	84.0
75°	76.0	69.4	60.0	56.0	56.0	53.4	52.0	52.0	52.0	52.0	52.0
77.5°	38.7	34.7	32.0	30.7	30.7	30.7	32.0	32.0	32.0	33.3	32.0
80°	18.7	17.3	17.3	17.3	18.7	18.7	18.7	18.7	18.7	20.0	18.7
82.5°	9.3	9.3	9.3	9.3	9.3	9.3	10.7	10.7	10.7	10.7	10.7
85°	4.0	4.0	4.0	4.0	5.3	5.3	5.3	5.3	5.3	5.3	5.3
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P684638

CATALOG NUMBER: LX6C80D010 EX6C809027 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2
2.5°	3938.8	3936.2	3936.2	3934.8	3934.8	3934.8	3934.8	3936.2
5°	3896.2	3894.8	3894.8	3892.2	3892.2	3892.2	3892.2	3892.2
7.5°	3838.8	3836.1	3837.5	3834.8	3834.8	3836.1	3834.8	3833.5
10°	3768.1	3766.8	3768.1	3768.1	3765.4	3764.1	3765.4	3766.8
12.5°	3688.1	3686.7	3684.1	3685.4	3685.4	3684.1	3682.7	3680.1
15°	3594.7	3593.4	3592.0	3590.7	3589.4	3590.7	3589.4	3586.7
17.5°	3485.3	3485.3	3484.0	3482.7	3481.3	3478.7	3480.0	3484.0
20°	3368.0	3366.6	3364.0	3365.3	3360.0	3357.3	3358.6	3362.6
22.5°	3233.2	3229.2	3231.9	3227.9	3227.9	3229.2	3227.9	3225.2
25°	3086.5	3081.2	3083.8	3085.2	3085.2	3083.8	3082.5	3083.8
27.5°	2923.8	2927.8	2927.8	2925.1	2929.1	2923.8	2926.5	2927.8
30°	2757.1	2753.1	2751.7	2757.1	2765.1	2758.4	2758.4	2759.7
32.5°	2585.0	2579.7	2579.7	2582.3	2581.0	2581.0	2586.3	2579.7
35°	2400.9	2403.6	2392.9	2399.6	2402.3	2399.6	2400.9	2400.9
37.5°	2215.5	2212.8	2212.8	2212.8	2216.8	2216.8	2219.5	2218.2
40°	2032.8	2027.4	2026.1	2028.8	2023.4	2027.4	2027.4	2023.4
42.5°	1835.4	1836.7	1843.4	1836.7	1838.0	1836.7	1834.0	1832.7
45°	1652.6	1656.6	1654.0	1652.6	1654.0	1648.6	1650.0	1654.0
47.5°	1459.2	1467.2	1459.2	1464.6	1463.2	1460.6	1457.9	1452.6
50°	1277.8	1280.5	1279.2	1277.8	1276.5	1275.2	1268.5	1264.5
52.5°	1092.4	1092.4	1092.4	1092.4	1079.1	1085.7	1083.1	1075.1
55°	911.0	915.0	909.7	909.7	900.3	900.3	897.7	899.0
57.5°	736.3	732.3	728.3	728.3	718.9	714.9	710.9	705.6
60°	573.6	569.6	564.2	557.5	548.2	548.2	545.5	534.9
62.5°	420.2	413.5	409.5	404.2	396.2	390.8	386.8	389.5
65°	288.1	281.4	276.1	276.1	276.1	273.4	272.1	272.1
67.5°	189.4	193.4	190.7	193.4	193.4	190.7	189.4	192.1
70°	130.7	130.7	129.4	129.4	129.4	129.4	128.0	129.4
72.5°	84.0	84.0	84.0	85.4	84.0	84.0	85.4	85.4
75°	53.4	53.4	53.4	54.7	53.4	53.4	54.7	53.4
77.5°	32.0	33.3	33.3	33.3	33.3	32.0	33.3	33.3
80°	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
82.5°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
85°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)