

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: P684691

Luminaire Tested: **LX6C90D010 EX6C909035 6LBLWWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684691
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: LX6C90D010 EX6C909035 6LBLWWH
Description: 6 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

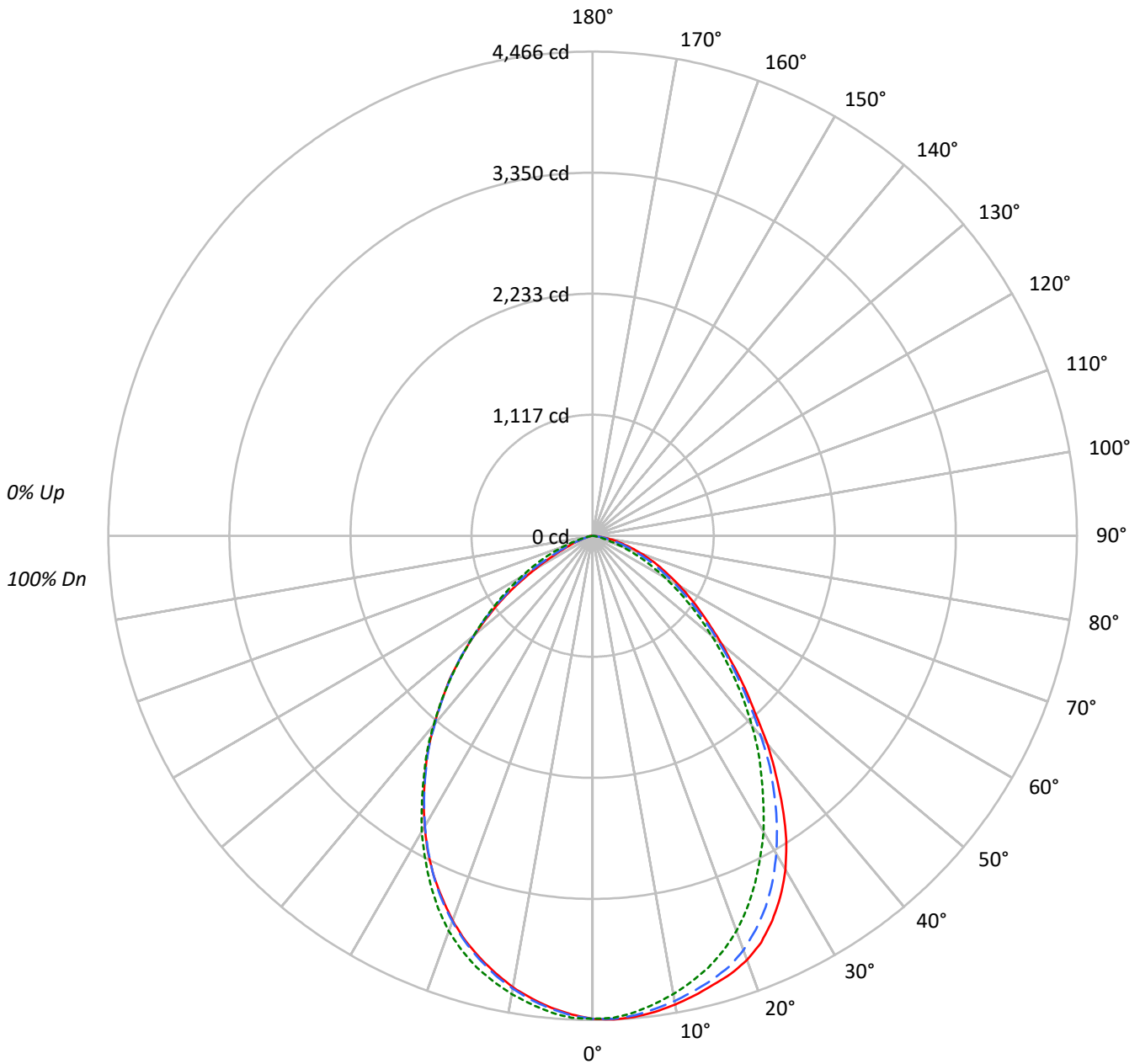
Lumens per Lamp: N/A
Luminaire Lumens: 8105.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 97.1
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°	244268	244268	244268
5°	245118	242895	240507
10°	244368	238951	235450
15°	243452	234014	228577
20°	242909	226306	220274
25°	236996	214168	209456
30°	225174	199480	196163
35°	204376	181623	180425
40°	179315	163456	162597
45°	153737	142821	143984
50°	132337	121736	121096
55°	115666	102782	96484
60°	101648	84237	65850
65°	88985	65273	39628
70°	75862	43934	23289
75°	61234	22833	12687
80°	42556	8997	7103
85°	16983	2830	3774



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.5	5.2
10°-20°	1165.9	14.4
20°-30°	1659.1	20.5
30°-40°	1746.2	21.5
40°-50°	1455.2	18.0
50°-60°	983.2	12.1
60°-70°	498.5	6.2
70°-80°	160.9	2.0
80°-90°	18.5	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°	3242.5	40.0
0°-40°	4988.7	61.6
0°-60°	7427.1	91.6
0°-90°	8105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8105.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4456	4456	4456	4456	4456	
5°	4454	4441	4414	4381	4370	423
15°	4290	4243	4123	4041	4028	1212
25°	3918	3776	3541	3467	3463	1796
35°	3054	2922	2714	2687	2696	1900
45°	1983	1932	1842	1850	1857	1535
55°	1210	1152	1075	1042	1010	1089
65°	686	619	503	364	306	683
75°	289	226	108	58	60	312
85°	27	15	4	6	6	46
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°	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8
2.5°	4466.3	4466.3	4466.3	4466.3	4466.3	4466.3	4464.8	4464.8	4461.8	4461.8	4460.3
5°	4454.3	4455.8	4455.8	4454.3	4454.3	4451.3	4451.3	4449.8	4445.3	4442.3	4440.8
7.5°	4428.9	4428.9	4427.4	4425.9	4424.4	4419.9	4418.4	4413.9	4410.9	4407.9	4401.9
10°	4389.9	4389.9	4388.4	4385.4	4383.9	4380.9	4380.9	4374.9	4369.0	4361.5	4357.0
12.5°	4343.5	4345.0	4342.0	4340.5	4336.0	4334.5	4331.5	4324.0	4319.5	4310.5	4303.1
15°	4289.6	4292.6	4292.6	4286.6	4282.1	4280.6	4276.1	4271.6	4261.1	4252.1	4243.1
17.5°	4237.2	4240.1	4237.2	4232.7	4228.2	4222.2	4219.2	4210.2	4196.7	4184.7	4171.3
20°	4163.8	4168.3	4162.3	4154.8	4145.8	4144.3	4139.8	4124.8	4105.3	4087.4	4067.9
22.5°	4060.4	4057.4	4052.9	4049.9	4035.0	4026.0	4020.0	4000.5	3979.5	3955.6	3931.6
25°	3918.1	3924.1	3915.1	3901.7	3894.2	3885.2	3870.2	3849.2	3829.8	3804.3	3775.8
27.5°	3750.4	3750.4	3738.4	3733.9	3717.4	3705.4	3698.0	3677.0	3651.5	3626.1	3594.6
30°	3557.2	3548.2	3548.2	3527.2	3513.7	3509.2	3501.8	3467.3	3444.8	3417.9	3386.4
32.5°	3323.5	3322.0	3316.0	3302.6	3284.6	3269.6	3269.6	3245.6	3215.7	3182.7	3163.3
35°	3053.9	3055.4	3052.4	3037.4	3037.4	3019.5	3016.5	2995.5	2971.5	2946.1	2922.1
37.5°	2775.3	2781.3	2775.3	2767.9	2763.4	2761.9	2748.4	2733.4	2715.4	2700.5	2682.5
40°	2505.7	2496.8	2499.8	2484.8	2486.3	2483.3	2477.3	2457.8	2447.3	2432.4	2412.9
42.5°	2215.2	2224.2	2227.2	2218.2	2215.2	2209.2	2215.2	2207.7	2195.7	2188.2	2170.2
45°	1983.0	1974.0	1978.5	1975.5	1977.0	1965.1	1960.6	1957.6	1953.1	1939.6	1932.1
47.5°	1752.4	1753.9	1752.4	1746.4	1743.4	1743.4	1737.4	1728.4	1728.4	1719.4	1713.4
50°	1551.7	1551.7	1554.7	1547.2	1544.2	1538.2	1539.7	1530.7	1524.7	1517.2	1512.7
52.5°	1367.5	1368.9	1363.0	1364.5	1361.5	1361.5	1355.5	1349.5	1343.5	1330.0	1327.0
55°	1210.2	1211.7	1204.2	1207.2	1198.2	1193.7	1190.7	1181.7	1181.7	1168.2	1151.8
57.5°	1063.4	1061.9	1060.4	1055.9	1049.9	1045.4	1040.9	1030.5	1026.0	1017.0	1003.5
60°	927.1	925.6	922.6	921.1	916.6	906.1	906.1	898.7	883.7	874.7	861.2
62.5°	798.3	798.3	796.8	792.3	787.8	783.3	780.3	774.3	759.4	748.9	736.9
65°	686.0	684.5	680.0	672.5	669.5	669.5	659.0	654.5	642.5	632.1	618.6
67.5°	578.1	572.1	569.1	570.6	561.7	561.7	552.7	545.2	534.7	516.7	506.2
70°	473.3	470.3	467.3	464.3	462.8	456.8	452.3	443.3	432.9	419.4	402.9
72.5°	378.9	378.9	374.4	371.4	367.0	361.0	358.0	350.5	338.5	323.5	311.5
75°	289.1	289.1	289.1	283.1	280.1	277.1	268.1	263.6	250.1	241.1	226.2
77.5°	212.7	209.7	205.2	203.7	200.7	197.7	193.2	185.7	173.7	163.3	154.3
80°	134.8	139.3	134.8	134.8	127.3	124.3	122.8	113.8	109.3	100.3	92.9
82.5°	74.9	76.4	73.4	71.9	67.4	65.9	65.9	59.9	56.9	50.9	46.4
85°	27.0	28.5	27.0	27.0	24.0	25.5	24.0	22.5	19.5	16.5	15.0
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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°	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8
2.5°	4460.3	4457.3	4457.3	4455.8	4454.3	4454.3	4454.3	4452.8	4449.8	4449.8	4448.3
5°	4437.9	4434.9	4430.4	4427.4	4425.9	4424.4	4422.9	4421.4	4415.4	4413.9	4409.4
7.5°	4397.4	4394.4	4386.9	4383.9	4379.4	4377.9	4371.9	4369.0	4363.0	4357.0	4354.0
10°	4349.5	4342.0	4336.0	4328.5	4325.5	4321.0	4313.5	4304.6	4300.1	4292.6	4286.6
12.5°	4295.6	4286.6	4274.6	4265.6	4262.6	4255.1	4243.1	4235.7	4225.2	4213.2	4202.7
15°	4228.2	4217.7	4207.2	4190.7	4186.2	4177.2	4165.3	4150.3	4135.3	4123.3	4111.3
17.5°	4154.8	4138.3	4121.8	4103.9	4090.4	4085.9	4066.4	4045.4	4032.0	4011.0	3997.5
20°	4051.4	4029.0	4002.0	3984.0	3972.0	3958.6	3936.1	3913.6	3897.2	3879.2	3859.7
22.5°	3909.1	3888.2	3856.7	3829.8	3820.8	3801.3	3781.8	3760.9	3739.9	3720.4	3696.5
25°	3741.4	3718.9	3687.5	3660.5	3645.5	3636.6	3599.1	3578.1	3557.2	3540.7	3524.2
27.5°	3569.2	3528.7	3507.7	3465.8	3452.3	3449.3	3414.9	3392.4	3370.0	3347.5	3326.5
30°	3356.5	3325.0	3293.6	3263.6	3245.6	3235.2	3209.7	3181.2	3166.3	3151.3	3130.3
32.5°	3136.3	3107.8	3068.9	3040.4	3027.0	3012.0	2989.5	2970.1	2947.6	2931.1	2926.6
35°	2901.2	2869.7	2836.7	2815.8	2812.8	2794.8	2772.3	2755.9	2739.4	2713.9	2709.4
37.5°	2649.5	2631.6	2609.1	2579.1	2565.7	2565.7	2543.2	2531.2	2510.2	2508.7	2496.8
40°	2402.4	2394.9	2360.5	2351.5	2348.5	2327.5	2321.5	2300.6	2285.6	2284.1	2266.1
42.5°	2158.3	2138.8	2132.8	2117.8	2104.3	2101.4	2087.9	2078.9	2072.9	2063.9	2054.9
45°	1915.6	1911.1	1896.2	1885.7	1881.2	1875.2	1870.7	1852.7	1849.7	1842.2	1837.7
47.5°	1705.9	1694.0	1680.5	1668.5	1667.0	1658.0	1647.5	1647.5	1631.1	1629.6	1626.6
50°	1497.8	1488.8	1481.3	1464.8	1467.8	1455.8	1454.3	1440.8	1433.4	1427.4	1434.9
52.5°	1315.0	1297.1	1294.1	1280.6	1276.1	1277.6	1261.1	1256.6	1253.6	1247.6	1244.6
55°	1141.3	1132.3	1120.3	1111.3	1103.8	1096.4	1090.4	1090.4	1073.9	1075.4	1067.9
57.5°	988.5	981.0	966.1	952.6	949.6	940.6	933.1	925.6	924.1	913.6	906.1
60°	852.2	838.7	819.3	813.3	804.3	796.8	789.3	780.3	775.8	768.3	754.9
62.5°	724.9	702.4	695.0	683.0	672.5	668.0	656.0	645.5	638.0	627.6	617.1
65°	603.6	587.1	573.6	560.2	558.7	546.7	536.2	527.2	512.2	503.2	483.8
67.5°	492.8	477.8	462.8	449.3	438.8	435.8	419.4	408.9	398.4	380.4	364.0
70°	390.9	375.9	364.0	347.5	343.0	331.0	319.0	308.5	290.6	274.1	260.6
72.5°	298.1	281.6	268.1	256.1	248.6	238.1	226.2	214.2	196.2	179.7	167.7
75°	212.7	200.7	187.2	175.2	169.2	163.3	149.8	136.3	124.3	107.8	97.4
77.5°	143.8	131.8	119.8	109.3	101.8	97.4	88.4	77.9	67.4	58.4	50.9
80°	83.9	76.4	67.4	58.4	56.9	52.4	44.9	38.9	33.0	28.5	22.5
82.5°	40.4	35.9	30.0	25.5	22.5	21.0	18.0	15.0	12.0	10.5	10.5
85°	12.0	10.5	9.0	7.5	6.0	6.0	4.5	4.5	4.5	4.5	4.5
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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°	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8
2.5°	4443.8	4442.3	4440.8	4439.3	4436.4	4436.4	4431.9	4428.9	4428.9	4425.9	4424.4
5°	4404.9	4400.4	4398.9	4395.9	4392.9	4391.4	4385.4	4383.9	4380.9	4377.9	4377.9
7.5°	4349.5	4343.5	4337.5	4334.5	4333.0	4328.5	4325.5	4324.0	4319.5	4316.5	4310.5
10°	4276.1	4271.6	4264.1	4261.1	4258.1	4255.1	4247.6	4243.1	4241.6	4238.6	4235.7
12.5°	4190.7	4184.7	4177.2	4171.3	4168.3	4163.8	4156.3	4151.8	4151.8	4145.8	4145.8
15°	4099.4	4090.4	4076.9	4070.9	4069.4	4060.4	4054.4	4048.4	4040.9	4037.9	4037.9
17.5°	3982.5	3967.6	3955.6	3955.6	3949.6	3940.6	3931.6	3927.1	3922.6	3916.6	3913.6
20°	3844.7	3834.3	3820.8	3820.8	3807.3	3804.3	3795.3	3793.8	3783.3	3784.8	3780.3
22.5°	3678.5	3672.5	3665.0	3659.0	3651.5	3642.5	3638.0	3639.5	3635.1	3633.6	3632.1
25°	3510.7	3494.3	3485.3	3482.3	3479.3	3471.8	3468.8	3467.3	3467.3	3462.8	3464.3
27.5°	3317.5	3305.5	3293.6	3298.1	3292.1	3287.6	3284.6	3280.1	3283.1	3281.6	3283.1
30°	3119.8	3104.8	3097.4	3100.4	3098.9	3086.9	3092.9	3091.4	3092.9	3092.9	3095.9
32.5°	2911.6	2901.2	2899.7	2901.2	2887.7	2889.2	2883.2	2892.2	2893.7	2902.7	2895.2
35°	2700.5	2694.5	2684.0	2682.5	2684.0	2682.5	2682.5	2688.5	2687.0	2696.0	2693.0
37.5°	2483.3	2480.3	2469.8	2472.8	2466.8	2477.3	2480.3	2477.3	2487.8	2484.8	2483.3
40°	2270.6	2266.1	2260.1	2272.1	2264.6	2258.6	2269.1	2260.1	2263.1	2272.1	2272.1
42.5°	2054.9	2047.4	2047.4	2047.4	2045.9	2045.9	2050.4	2054.9	2051.9	2053.4	2065.4
45°	1837.7	1836.2	1831.8	1834.8	1833.3	1840.7	1840.7	1843.7	1849.7	1855.7	1852.7
47.5°	1628.1	1625.1	1629.6	1626.6	1628.1	1623.6	1626.6	1635.5	1643.0	1632.6	1643.0
50°	1431.9	1425.9	1424.4	1428.9	1427.4	1425.9	1428.9	1428.9	1425.9	1425.9	1436.3
52.5°	1244.6	1238.6	1234.2	1241.6	1237.1	1238.6	1232.7	1232.7	1235.6	1232.7	1228.2
55°	1069.4	1064.9	1058.9	1061.9	1054.4	1052.9	1046.9	1046.9	1042.4	1039.4	1030.5
57.5°	901.6	898.7	885.2	883.7	885.2	874.7	864.2	859.7	847.7	844.7	843.2
60°	753.4	736.9	729.4	720.4	714.4	709.9	698.0	690.5	672.5	662.0	660.5
62.5°	599.1	591.6	582.6	569.1	566.2	551.2	539.2	519.7	510.7	497.3	483.8
65°	474.8	455.3	441.8	434.3	422.4	408.9	395.4	374.4	364.0	347.5	334.0
67.5°	347.5	331.0	313.0	307.0	296.6	280.1	266.6	248.6	239.6	224.7	220.2
70°	238.1	223.2	209.7	200.7	193.2	176.7	163.3	157.3	148.3	145.3	145.3
72.5°	152.8	139.3	124.3	119.8	113.8	104.8	95.9	92.9	95.9	94.4	94.4
75°	85.4	77.9	67.4	62.9	62.9	59.9	58.4	58.4	58.4	58.4	58.4
77.5°	43.4	38.9	35.9	34.4	34.4	34.4	35.9	35.9	35.9	37.4	35.9
80°	21.0	19.5	19.5	19.5	21.0	21.0	21.0	21.0	21.0	22.5	21.0
82.5°	10.5	10.5	10.5	10.5	10.5	10.5	12.0	12.0	12.0	12.0	12.0
85°	4.5	4.5	4.5	4.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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: P684691

CATALOG NUMBER: LX6C90D010 EX6C909035 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8
2.5°	4422.9	4419.9	4419.9	4418.4	4418.4	4418.4	4418.4	4419.9
5°	4374.9	4373.4	4373.4	4370.5	4370.5	4370.5	4370.5	4370.5
7.5°	4310.5	4307.5	4309.0	4306.0	4306.0	4307.5	4306.0	4304.6
10°	4231.2	4229.7	4231.2	4231.2	4228.2	4226.7	4228.2	4229.7
12.5°	4141.3	4139.8	4136.8	4138.3	4138.3	4136.8	4135.3	4132.3
15°	4036.5	4035.0	4033.5	4032.0	4030.5	4032.0	4030.5	4027.5
17.5°	3913.6	3913.6	3912.1	3910.6	3909.1	3906.1	3907.6	3912.1
20°	3781.8	3780.3	3777.3	3778.8	3772.8	3769.9	3771.3	3775.8
22.5°	3630.6	3626.1	3629.1	3624.6	3624.6	3626.1	3624.6	3621.6
25°	3465.8	3459.8	3462.8	3464.3	3464.3	3462.8	3461.3	3462.8
27.5°	3283.1	3287.6	3287.6	3284.6	3289.1	3283.1	3286.1	3287.6
30°	3095.9	3091.4	3089.9	3095.9	3104.8	3097.4	3097.4	3098.9
32.5°	2902.7	2896.7	2896.7	2899.7	2898.2	2898.2	2904.1	2896.7
35°	2696.0	2699.0	2687.0	2694.5	2697.5	2694.5	2696.0	2696.0
37.5°	2487.8	2484.8	2484.8	2484.8	2489.3	2489.3	2492.3	2490.8
40°	2282.6	2276.6	2275.1	2278.1	2272.1	2276.6	2276.6	2272.1
42.5°	2060.9	2062.4	2069.9	2062.4	2063.9	2062.4	2059.4	2057.9
45°	1855.7	1860.2	1857.2	1855.7	1857.2	1851.2	1852.7	1857.2
47.5°	1638.5	1647.5	1638.5	1644.5	1643.0	1640.0	1637.0	1631.1
50°	1434.9	1437.8	1436.3	1434.9	1433.4	1431.9	1424.4	1419.9
52.5°	1226.7	1226.7	1226.7	1226.7	1211.7	1219.2	1216.2	1207.2
55°	1023.0	1027.5	1021.5	1021.5	1011.0	1011.0	1008.0	1009.5
57.5°	826.8	822.3	817.8	817.8	807.3	802.8	798.3	792.3
60°	644.0	639.5	633.6	626.1	615.6	615.6	612.6	600.6
62.5°	471.8	464.3	459.8	453.8	444.8	438.8	434.3	437.3
65°	323.5	316.0	310.0	310.0	310.0	307.0	305.5	305.5
67.5°	212.7	217.2	214.2	217.2	217.2	214.2	212.7	215.7
70°	146.8	146.8	145.3	145.3	145.3	145.3	143.8	145.3
72.5°	94.4	94.4	94.4	95.9	94.4	94.4	95.9	95.9
75°	59.9	59.9	59.9	61.4	59.9	59.9	61.4	59.9
77.5°	35.9	37.4	37.4	37.4	37.4	35.9	37.4	37.4
80°	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
82.5°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
85°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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)