

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: P684011

Luminaire Tested: **LX6C130D010 EX6C1309040 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684011
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: LX6C130D010 EX6C1309040 6LBLWWH
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

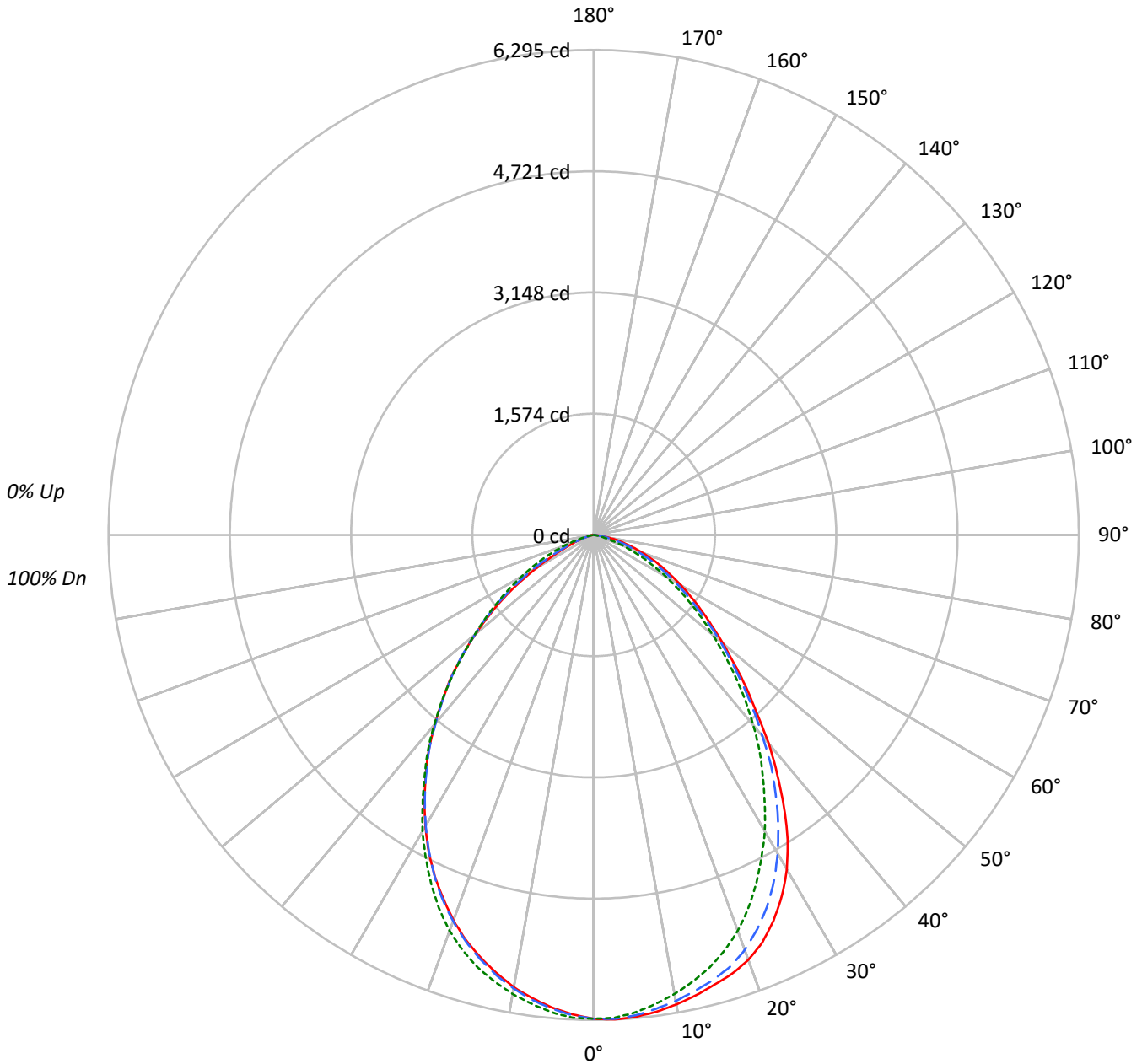
Lumens per Lamp: N/A
Luminaire Lumens: 11424.0 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 144.3
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					20					
RC	80					70					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°	344298	344298	344298
5°	345498	342361	338993
10°	344438	336801	331863
15°	343146	329843	322176
20°	342376	318977	310483
25°	334048	301868	295227
30°	317378	281164	276486
35°	288070	256001	254308
40°	252745	230389	229179
45°	216697	201308	202944
50°	186527	171585	170681
55°	163034	144874	135995
60°	143278	118740	92811
65°	125422	92007	55868
70°	106925	61917	32826
75°	86291	32195	17877
80°	59982	12659	10008
85°	23902	3963	5284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.5	5.2
10°-20°	1643.3	14.4
20°-30°	2338.5	20.5
30°-40°	2461.3	21.5
40°-50°	2051.2	18.0
50°-60°	1385.8	12.1
60°-70°	702.6	6.2
70°-80°	226.8	2.0
80°-90°	26.0	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°	4570.3	40.0
0°-40°	7031.6	61.6
0°-60°	10468.5	91.6
0°-90°	11424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11424.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6280	6280	6280	6280	6280	
5°	6278	6259	6221	6175	6160	596
15°	6046	5981	5812	5696	5677	1708
25°	5523	5322	4991	4887	4881	2531
35°	4304	4119	3825	3787	3800	2679
45°	2795	2723	2597	2607	2618	2163
55°	1706	1623	1516	1469	1423	1535
65°	967	872	709	513	431	962
75°	407	319	152	82	84	440
85°	38	21	6	8	8	65
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°	6280.5	6280.5	6280.5	6280.5	6280.5	6280.5	6280.5	6280.5	6280.5	6280.5	6280.5
2.5°	6295.3	6295.3	6295.3	6295.3	6295.3	6295.3	6293.2	6293.2	6288.9	6288.9	6286.8
5°	6278.4	6280.5	6280.5	6278.4	6278.4	6274.2	6274.2	6272.0	6265.7	6261.5	6259.4
7.5°	6242.5	6242.5	6240.4	6238.3	6236.2	6229.8	6227.7	6221.4	6217.2	6212.9	6204.5
10°	6187.6	6187.6	6185.5	6181.3	6179.2	6174.9	6174.9	6166.5	6158.0	6147.5	6141.2
12.5°	6122.2	6124.3	6120.0	6117.9	6111.6	6109.5	6105.3	6094.7	6088.4	6075.7	6065.2
15°	6046.2	6050.4	6050.4	6041.9	6035.6	6033.5	6027.2	6020.8	6006.0	5993.4	5980.7
17.5°	5972.3	5976.5	5972.3	5965.9	5959.6	5951.2	5946.9	5934.3	5915.3	5898.4	5879.4
20°	5868.8	5875.2	5866.7	5856.2	5843.5	5841.4	5835.0	5813.9	5786.5	5761.2	5733.7
22.5°	5723.2	5718.9	5712.6	5708.4	5687.3	5674.6	5666.2	5638.7	5609.2	5575.4	5541.6
25°	5522.6	5531.0	5518.4	5499.4	5488.8	5476.2	5455.0	5425.5	5398.1	5362.2	5322.1
27.5°	5286.2	5286.2	5269.3	5262.9	5239.7	5222.8	5212.3	5182.7	5146.8	5110.9	5066.6
30°	5013.8	5001.2	5001.2	4971.6	4952.6	4946.3	4935.7	4887.2	4855.5	4817.5	4773.2
32.5°	4684.5	4682.4	4673.9	4654.9	4629.6	4608.5	4608.5	4574.7	4532.5	4486.1	4458.6
35°	4304.5	4306.6	4302.4	4281.3	4281.3	4256.0	4251.7	4222.2	4188.4	4152.5	4118.7
37.5°	3911.8	3920.3	3911.8	3901.3	3895.0	3892.8	3873.8	3852.7	3827.4	3806.3	3781.0
40°	3531.8	3519.2	3523.4	3502.3	3504.4	3500.2	3491.7	3464.3	3449.5	3428.4	3401.0
42.5°	3122.3	3135.0	3139.2	3126.5	3122.3	3113.9	3122.3	3111.7	3094.9	3084.3	3059.0
45°	2795.1	2782.4	2788.7	2784.5	2786.6	2769.7	2763.4	2759.2	2752.9	2733.9	2723.3
47.5°	2470.0	2472.1	2470.0	2461.5	2457.3	2457.3	2448.9	2436.2	2436.2	2423.5	2415.1
50°	2187.1	2187.1	2191.3	2180.8	2176.5	2168.1	2170.2	2157.5	2149.1	2138.5	2132.2
52.5°	1927.4	1929.5	1921.1	1923.2	1919.0	1919.0	1910.5	1902.1	1893.6	1874.6	1870.4
55°	1705.8	1707.9	1697.3	1701.5	1688.9	1682.5	1678.3	1665.6	1665.6	1646.6	1623.4
57.5°	1498.9	1496.8	1494.6	1488.3	1479.9	1473.5	1467.2	1452.4	1446.1	1433.4	1414.4
60°	1306.8	1304.7	1300.4	1298.3	1292.0	1277.2	1277.2	1266.7	1245.5	1232.9	1213.9
62.5°	1125.2	1125.2	1123.1	1116.8	1110.4	1104.1	1099.9	1091.4	1070.3	1055.5	1038.7
65°	966.9	964.8	958.4	947.9	943.7	943.7	928.9	922.5	905.7	890.9	871.9
67.5°	814.9	806.4	802.2	804.3	791.7	791.7	779.0	768.4	753.7	728.3	713.5
70°	667.1	662.9	658.7	654.4	652.3	643.9	637.5	624.9	610.1	591.1	567.9
72.5°	534.1	534.1	527.8	523.5	517.2	508.8	504.5	494.0	477.1	456.0	439.1
75°	407.4	407.4	407.4	399.0	394.8	390.6	377.9	371.6	352.6	339.9	318.8
77.5°	299.8	295.6	289.2	287.1	282.9	278.7	272.3	261.8	244.9	230.1	217.4
80°	190.0	196.3	190.0	190.0	179.4	175.2	173.1	160.4	154.1	141.4	130.9
82.5°	105.6	107.7	103.4	101.3	95.0	92.9	92.9	84.4	80.2	71.8	65.4
85°	38.0	40.1	38.0	38.0	33.8	35.9	33.8	31.7	27.4	23.2	21.1
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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°	6280.5	6280.5	6280.5	6280.5	6280.5	6280.5	6280.5	6280.5	6280.5	6280.5	6280.5
2.5°	6286.8	6282.6	6282.6	6280.5	6278.4	6278.4	6278.4	6276.3	6272.0	6272.0	6269.9
5°	6255.2	6250.9	6244.6	6240.4	6238.3	6236.2	6234.0	6231.9	6223.5	6221.4	6215.0
7.5°	6198.2	6193.9	6183.4	6179.2	6172.8	6170.7	6162.3	6158.0	6149.6	6141.2	6136.9
10°	6130.6	6120.0	6111.6	6101.0	6096.8	6090.5	6079.9	6067.3	6060.9	6050.4	6041.9
12.5°	6054.6	6041.9	6025.0	6012.4	6008.2	5997.6	5980.7	5970.2	5955.4	5938.5	5923.7
15°	5959.6	5944.8	5930.0	5906.8	5900.5	5887.8	5870.9	5849.8	5828.7	5811.8	5794.9
17.5°	5856.2	5832.9	5809.7	5784.4	5765.4	5759.0	5731.6	5702.0	5683.0	5653.5	5634.5
20°	5710.5	5678.8	5640.8	5615.5	5598.6	5579.6	5547.9	5516.3	5493.0	5467.7	5440.3
22.5°	5509.9	5480.4	5436.1	5398.1	5385.4	5357.9	5330.5	5300.9	5271.4	5243.9	5210.2
25°	5273.5	5241.8	5197.5	5159.5	5138.4	5125.7	5072.9	5043.4	5013.8	4990.6	4967.4
27.5°	5030.7	4973.7	4944.2	4885.1	4866.1	4861.8	4813.3	4781.6	4749.9	4718.3	4688.7
30°	4730.9	4686.6	4642.3	4600.1	4574.7	4559.9	4524.1	4483.9	4462.8	4441.7	4412.2
32.5°	4420.6	4380.5	4325.6	4285.5	4266.5	4245.4	4213.7	4186.3	4154.6	4131.4	4125.1
35°	4089.2	4044.8	3998.4	3968.8	3964.6	3939.3	3907.6	3884.4	3861.2	3825.3	3819.0
37.5°	3734.5	3709.2	3677.5	3635.3	3616.3	3616.3	3584.6	3567.7	3538.2	3536.1	3519.2
40°	3386.2	3375.6	3327.1	3314.4	3310.2	3280.6	3272.2	3242.6	3221.5	3219.4	3194.1
42.5°	3042.1	3014.6	3006.2	2985.1	2966.1	2961.9	2942.9	2930.2	2921.7	2909.1	2896.4
45°	2700.1	2693.7	2672.6	2657.9	2651.5	2643.1	2636.7	2611.4	2607.2	2596.6	2590.3
47.5°	2404.5	2387.6	2368.6	2351.8	2349.6	2337.0	2322.2	2322.2	2299.0	2296.9	2292.6
50°	2111.1	2098.4	2087.9	2064.6	2068.9	2052.0	2049.9	2030.9	2020.3	2011.9	2022.4
52.5°	1853.5	1828.2	1824.0	1805.0	1798.6	1800.8	1777.5	1771.2	1767.0	1758.5	1754.3
55°	1608.6	1596.0	1579.1	1566.4	1555.9	1545.3	1536.9	1536.9	1513.6	1515.8	1505.2
57.5°	1393.3	1382.8	1361.7	1342.7	1338.4	1325.8	1315.2	1304.7	1302.5	1287.8	1277.2
60°	1201.2	1182.2	1154.8	1146.3	1133.7	1123.1	1112.5	1099.9	1093.5	1083.0	1064.0
62.5°	1021.8	990.1	979.5	962.7	947.9	941.5	924.7	909.9	899.3	884.5	869.8
65°	850.8	827.5	808.5	789.5	787.4	770.5	755.8	743.1	722.0	709.3	681.9
67.5°	694.5	673.4	652.3	633.3	618.5	614.3	591.1	576.3	561.5	536.2	513.0
70°	551.0	529.9	513.0	489.8	483.4	466.6	449.7	434.9	409.6	386.3	367.3
72.5°	420.1	396.9	377.9	361.0	350.4	335.7	318.8	301.9	276.6	253.3	236.4
75°	299.8	282.9	263.9	247.0	238.6	230.1	211.1	192.1	175.2	152.0	137.2
77.5°	202.7	185.8	168.9	154.1	143.6	137.2	124.6	109.8	95.0	82.3	71.8
80°	118.2	107.7	95.0	82.3	80.2	73.9	63.3	54.9	46.4	40.1	31.7
82.5°	57.0	50.7	42.2	35.9	31.7	29.6	25.3	21.1	16.9	14.8	14.8
85°	16.9	14.8	12.7	10.6	8.4	8.4	6.3	6.3	6.3	6.3	6.3
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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°	6280.5	6280.5	6280.5	6280.5	6280.5	6280.5	6280.5	6280.5	6280.5	6280.5	6280.5
2.5°	6263.6	6261.5	6259.4	6257.3	6253.0	6253.0	6246.7	6242.5	6242.5	6238.3	6236.2
5°	6208.7	6202.4	6200.3	6196.0	6191.8	6189.7	6181.3	6179.2	6174.9	6170.7	6170.7
7.5°	6130.6	6122.2	6113.7	6109.5	6107.4	6101.0	6096.8	6094.7	6088.4	6084.2	6075.7
10°	6027.2	6020.8	6010.3	6006.0	6001.8	5997.6	5987.0	5980.7	5978.6	5974.4	5970.2
12.5°	5906.8	5898.4	5887.8	5879.4	5875.2	5868.8	5858.3	5851.9	5851.9	5843.5	5843.5
15°	5778.0	5765.4	5746.4	5737.9	5735.8	5723.2	5714.7	5706.3	5695.7	5691.5	5691.5
17.5°	5613.4	5592.3	5575.4	5575.4	5566.9	5554.3	5541.6	5535.3	5528.9	5520.5	5516.3
20°	5419.2	5404.4	5385.4	5385.4	5366.4	5362.2	5349.5	5347.4	5332.6	5334.7	5328.4
22.5°	5184.8	5176.4	5165.8	5157.4	5146.8	5134.2	5127.8	5129.9	5123.6	5121.5	5119.4
25°	4948.4	4925.2	4912.5	4908.3	4904.1	4893.5	4889.3	4887.2	4887.2	4880.8	4882.9
27.5°	4676.1	4659.2	4642.3	4648.6	4640.2	4633.8	4629.6	4623.3	4627.5	4625.4	4627.5
30°	4397.4	4376.3	4365.7	4370.0	4367.8	4351.0	4359.4	4357.3	4359.4	4359.4	4363.6
32.5°	4104.0	4089.2	4087.1	4089.2	4070.2	4072.3	4063.8	4076.5	4078.6	4091.3	4080.7
35°	3806.3	3797.8	3783.1	3781.0	3783.1	3781.0	3781.0	3789.4	3787.3	3800.0	3795.7
37.5°	3500.2	3496.0	3481.2	3485.4	3477.0	3491.7	3496.0	3491.7	3506.5	3502.3	3500.2
40°	3200.4	3194.1	3185.6	3202.5	3192.0	3183.5	3198.3	3185.6	3189.9	3202.5	3202.5
42.5°	2896.4	2885.9	2885.9	2885.9	2883.7	2883.7	2890.1	2896.4	2892.2	2894.3	2911.2
45°	2590.3	2588.2	2581.9	2586.1	2584.0	2594.5	2594.5	2598.7	2607.2	2615.6	2611.4
47.5°	2294.8	2290.5	2296.9	2292.6	2294.8	2288.4	2292.6	2305.3	2315.9	2301.1	2315.9
50°	2018.2	2009.8	2007.6	2014.0	2011.9	2009.8	2014.0	2014.0	2009.8	2009.8	2024.5
52.5°	1754.3	1745.9	1739.5	1750.1	1743.8	1745.9	1737.4	1737.4	1741.6	1737.4	1731.1
55°	1507.3	1501.0	1492.5	1496.8	1486.2	1484.1	1475.7	1475.7	1469.3	1465.1	1452.4
57.5°	1270.9	1266.7	1247.7	1245.5	1247.7	1232.9	1218.1	1211.8	1194.9	1190.7	1188.5
60°	1061.9	1038.7	1028.1	1015.4	1007.0	1000.7	983.8	973.2	947.9	933.1	931.0
62.5°	844.4	833.9	821.2	802.2	798.0	776.9	760.0	732.5	719.9	700.9	681.9
65°	669.2	641.8	622.8	612.2	595.3	576.3	557.3	527.8	513.0	489.8	470.8
67.5°	489.8	466.6	441.2	432.8	418.0	394.8	375.8	350.4	337.8	316.7	310.3
70°	335.7	314.6	295.6	282.9	272.3	249.1	230.1	221.7	209.0	204.8	204.8
72.5°	215.3	196.3	175.2	168.9	160.4	147.8	135.1	130.9	135.1	133.0	133.0
75°	120.3	109.8	95.0	88.7	88.7	84.4	82.3	82.3	82.3	82.3	82.3
77.5°	61.2	54.9	50.7	48.6	48.6	48.6	50.7	50.7	50.7	52.8	50.7
80°	29.6	27.4	27.4	27.4	29.6	29.6	29.6	29.6	29.6	31.7	29.6
82.5°	14.8	14.8	14.8	14.8	14.8	14.8	16.9	16.9	16.9	16.9	16.9
85°	6.3	6.3	6.3	6.3	8.4	8.4	8.4	8.4	8.4	8.4	8.4
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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: P684011

CATALOG NUMBER: LX6C130D010 EX6C1309040 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	6280.5	6280.5	6280.5	6280.5	6280.5	6280.5	6280.5	6280.5
2.5°	6234.0	6229.8	6229.8	6227.7	6227.7	6227.7	6227.7	6229.8
5°	6166.5	6164.4	6164.4	6160.2	6160.2	6160.2	6160.2	6160.2
7.5°	6075.7	6071.5	6073.6	6069.4	6069.4	6071.5	6069.4	6067.3
10°	5963.8	5961.7	5963.8	5963.8	5959.6	5957.5	5959.6	5961.7
12.5°	5837.2	5835.0	5830.8	5832.9	5832.9	5830.8	5828.7	5824.5
15°	5689.4	5687.3	5685.2	5683.0	5680.9	5683.0	5680.9	5676.7
17.5°	5516.3	5516.3	5514.2	5512.0	5509.9	5505.7	5507.8	5514.2
20°	5330.5	5328.4	5324.2	5326.3	5317.8	5313.6	5315.7	5322.1
22.5°	5117.3	5110.9	5115.2	5108.8	5108.8	5110.9	5108.8	5104.6
25°	4885.1	4876.6	4880.8	4882.9	4882.9	4880.8	4878.7	4880.8
27.5°	4627.5	4633.8	4633.8	4629.6	4635.9	4627.5	4631.7	4633.8
30°	4363.6	4357.3	4355.2	4363.6	4376.3	4365.7	4365.7	4367.8
32.5°	4091.3	4082.8	4082.8	4087.1	4085.0	4085.0	4093.4	4082.8
35°	3800.0	3804.2	3787.3	3797.8	3802.1	3797.8	3800.0	3800.0
37.5°	3506.5	3502.3	3502.3	3502.3	3508.6	3508.6	3512.8	3510.7
40°	3217.3	3208.9	3206.7	3211.0	3202.5	3208.9	3208.9	3202.5
42.5°	2904.9	2907.0	2917.5	2907.0	2909.1	2907.0	2902.7	2900.6
45°	2615.6	2622.0	2617.7	2615.6	2617.7	2609.3	2611.4	2617.7
47.5°	2309.5	2322.2	2309.5	2318.0	2315.9	2311.6	2307.4	2299.0
50°	2022.4	2026.6	2024.5	2022.4	2020.3	2018.2	2007.6	2001.3
52.5°	1729.0	1729.0	1729.0	1729.0	1707.9	1718.4	1714.2	1701.5
55°	1441.9	1448.2	1439.8	1439.8	1425.0	1425.0	1420.8	1422.9
57.5°	1165.3	1159.0	1152.7	1152.7	1137.9	1131.5	1125.2	1116.8
60°	907.8	901.4	893.0	882.4	867.7	867.7	863.4	846.5
62.5°	665.0	654.4	648.1	639.7	627.0	618.5	612.2	616.4
65°	456.0	445.4	437.0	437.0	437.0	432.8	430.7	430.7
67.5°	299.8	306.1	301.9	306.1	306.1	301.9	299.8	304.0
70°	206.9	206.9	204.8	204.8	204.8	204.8	202.7	204.8
72.5°	133.0	133.0	133.0	135.1	133.0	133.0	135.1	135.1
75°	84.4	84.4	84.4	86.6	84.4	84.4	86.6	84.4
77.5°	50.7	52.8	52.8	52.8	52.8	50.7	52.8	52.8
80°	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
82.5°	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
85°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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













(END OF REPORT)