

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: P#

Luminaire Tested: **LX6C130D010 EX6C1309040 6LBSQLWWLI**

Issue Date: 2/18/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C130D010 EX6C1309040 6LBSQLWWLI  
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBSQLWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

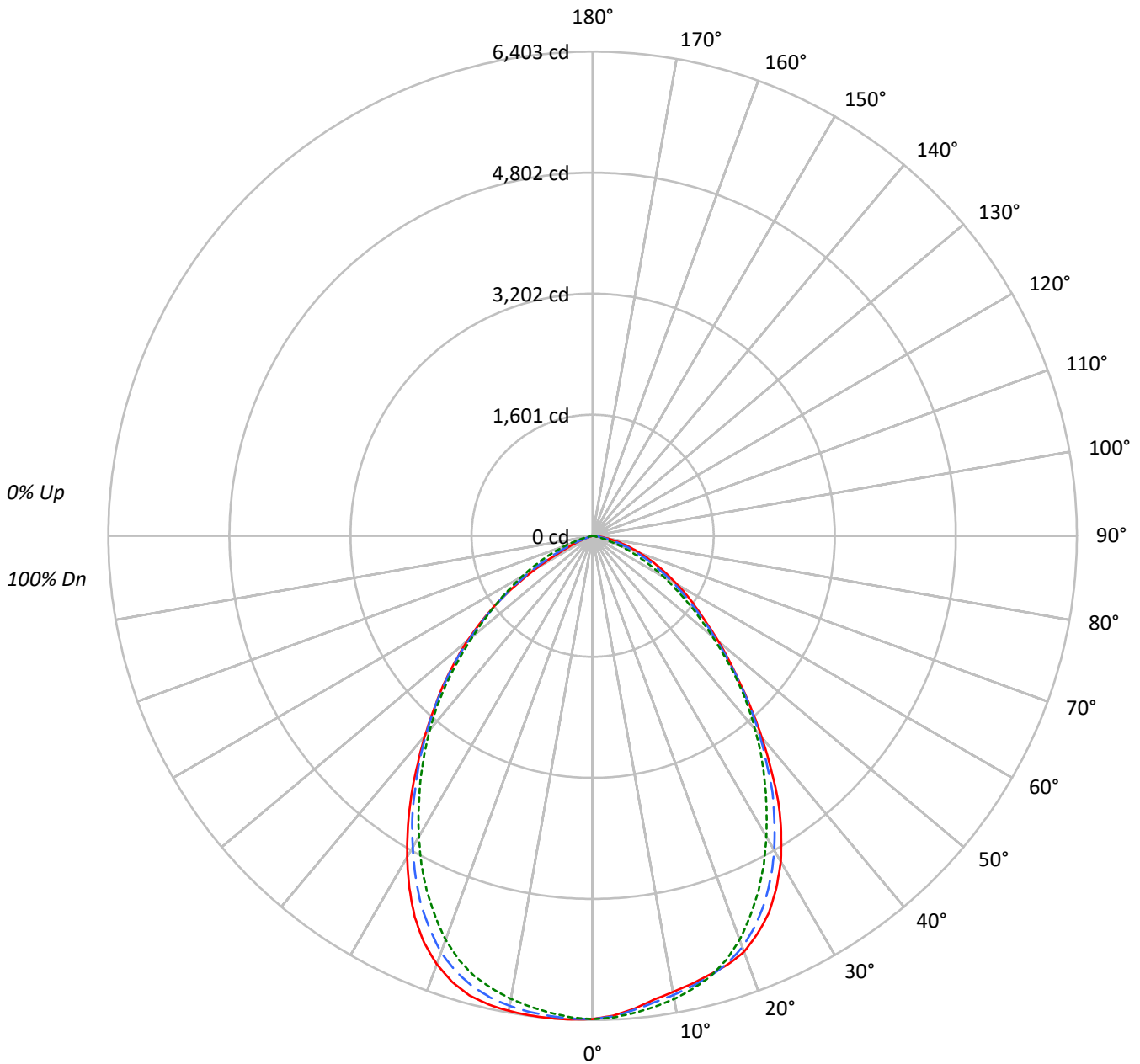
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11753.0 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.1 / 1.17  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 144.3  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89																			
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78																			
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69																			
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61																			
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54																			
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	46	44																			
8	67	55	48	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40																			
9	63	51	44	39	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	275152	275152	275152
5°	271366	273739	276747
10°	267767	271920	278933
15°	267634	268766	280432
20°	268237	260499	276169
25°	261671	246327	264280
30°	247394	228392	243720
35°	224931	208616	219491
40°	195549	187838	193773
45°	167630	164671	169944
50°	145373	138018	144951
55°	126147	114737	114107
60°	111075	92897	72170
65°	97436	70551	34628
70°	83714	46779	12752
75°	68139	19663	3510
80°	46069	4711	1562
85°	18772	1037	1037



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	601.7	5.1
10°-20°	1714.4	14.6
20°-30°	2456.9	20.9
30°-40°	2560.4	21.8
40°-50°	2121.2	18.0
50°-60°	1406.1	12.0
60°-70°	680.9	5.8
70°-80°	192.7	1.6
80°-90°	18.7	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°	4773.0	40.6
0°-40°	7333.4	62.4
0°-60°	10860.7	92.4
0°-90°	11753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11753.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6391	6391	6391	6391	6391	
5°	6279	6296	6334	6378	6403	594
15°	6004	6025	6030	6165	6291	1697
25°	5508	5369	5185	5375	5563	2520
35°	4279	4144	3969	4092	4176	2653
45°	2753	2744	2704	2772	2791	2142
55°	1680	1626	1528	1501	1520	1518
65°	956	864	692	475	340	953
75°	410	312	118	23	21	439
85°	38	17	2	2	2	63
90°	0	0	0	0	0	



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	6390.6	6390.6	6390.6	6390.6	6390.6	6390.6	6390.6	6390.6	6390.6	6390.6	6390.6
2.5°	6350.5	6352.6	6356.8	6352.6	6354.7	6356.8	6356.8	6358.9	6358.9	6361.0	6363.1
5°	6278.7	6285.0	6285.0	6285.0	6285.0	6287.1	6289.2	6289.2	6287.1	6287.1	6295.6
7.5°	6187.9	6194.2	6192.1	6194.2	6196.3	6202.7	6200.6	6204.8	6209.0	6215.3	6223.8
10°	6124.6	6126.7	6124.6	6130.9	6135.1	6139.3	6139.3	6143.6	6147.8	6154.1	6164.7
12.5°	6067.6	6069.7	6071.8	6076.0	6080.2	6078.1	6082.3	6086.6	6088.7	6092.9	6099.2
15°	6004.2	6014.8	6012.7	6014.8	6016.9	6019.0	6021.1	6023.2	6021.1	6021.1	6025.3
17.5°	5945.1	5947.2	5949.3	5949.3	5949.3	5949.3	5945.1	5945.1	5938.8	5932.4	5928.2
20°	5854.3	5852.2	5848.0	5848.0	5839.5	5841.7	5833.2	5829.0	5818.4	5803.7	5788.9
22.5°	5696.0	5706.5	5702.3	5687.5	5679.1	5679.1	5670.7	5651.7	5634.8	5617.9	5598.9
25°	5508.1	5503.9	5497.5	5489.1	5476.4	5468.0	5455.3	5442.6	5415.2	5385.6	5368.8
27.5°	5256.9	5263.2	5248.4	5235.7	5229.4	5216.7	5204.1	5187.2	5153.4	5128.1	5098.5
30°	4976.1	4971.9	4969.7	4952.9	4936.0	4940.2	4914.8	4895.8	4870.5	4828.3	4805.1
32.5°	4638.3	4644.6	4631.9	4629.8	4598.2	4593.9	4593.9	4564.4	4543.3	4503.2	4471.5
35°	4279.4	4275.2	4270.9	4256.2	4254.0	4241.4	4230.8	4209.7	4182.3	4169.6	4144.3
37.5°	3865.6	3867.7	3869.8	3869.8	3861.4	3852.9	3844.5	3844.5	3806.5	3800.1	3770.6
40°	3479.2	3485.6	3483.5	3468.7	3470.8	3472.9	3470.8	3468.7	3445.5	3437.0	3432.8
42.5°	3103.4	3114.0	3103.4	3101.3	3103.4	3103.4	3099.2	3105.6	3095.0	3103.4	3084.4
45°	2753.0	2761.4	2755.1	2753.0	2748.8	2759.3	2746.7	2757.2	2750.9	2740.3	2744.5
47.5°	2451.1	2442.6	2451.1	2446.9	2440.5	2432.1	2444.8	2438.4	2423.6	2421.5	2425.8
50°	2170.3	2166.1	2170.3	2168.2	2157.6	2157.6	2155.5	2151.3	2147.1	2134.4	2126.0
52.5°	1902.2	1917.0	1906.4	1917.0	1902.2	1895.8	1898.0	1891.6	1883.2	1879.0	1862.1
55°	1680.5	1682.6	1682.6	1682.6	1674.2	1670.0	1665.7	1661.5	1661.5	1642.5	1625.6
57.5°	1488.4	1484.2	1482.1	1475.7	1471.5	1467.3	1463.1	1450.4	1437.7	1420.8	1408.2
60°	1289.9	1294.2	1294.2	1285.7	1279.4	1273.0	1270.9	1262.5	1247.7	1230.8	1211.8
62.5°	1118.9	1123.2	1112.6	1112.6	1099.9	1097.8	1097.8	1085.2	1068.3	1049.3	1028.1
65°	956.4	954.3	958.5	943.7	945.8	933.1	928.9	922.6	905.7	882.5	863.5
67.5°	802.3	806.5	800.1	795.9	787.5	783.3	779.0	760.0	751.6	730.5	709.4
70°	665.0	660.8	656.6	656.6	648.1	641.8	639.7	618.6	608.0	591.1	567.9
72.5°	536.2	532.0	527.8	521.5	515.1	513.0	500.4	487.7	475.0	453.9	437.0
75°	409.6	407.5	403.2	399.0	388.5	384.2	382.1	367.3	344.1	327.2	312.5
77.5°	295.6	297.7	289.2	280.8	274.5	268.1	263.9	251.2	236.5	217.5	202.7
80°	185.8	187.9	185.8	179.5	171.0	168.9	162.6	154.1	141.4	128.8	118.2
82.5°	99.2	99.2	97.1	95.0	88.7	88.7	84.4	78.1	71.8	65.4	57.0
85°	38.0	38.0	35.9	33.8	31.7	31.7	29.6	27.4	23.2	21.1	16.9
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
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°	6390.6	6390.6	6390.6	6390.6	6390.6	6390.6	6390.6	6390.6	6390.6	6390.6	6390.6
2.5°	6363.1	6365.2	6367.3	6369.5	6369.5	6369.5	6371.6	6373.7	6373.7	6375.8	6377.9
5°	6299.8	6301.9	6308.2	6310.3	6314.6	6312.5	6318.8	6325.1	6329.3	6333.6	6339.9
7.5°	6228.0	6234.3	6242.8	6249.1	6251.2	6253.3	6259.7	6268.1	6274.5	6282.9	6289.2
10°	6168.9	6175.2	6183.7	6192.1	6192.1	6196.3	6200.6	6206.9	6213.2	6219.6	6228.0
12.5°	6103.4	6111.9	6114.0	6118.2	6118.2	6120.3	6124.6	6126.7	6133.0	6135.1	6147.8
15°	6025.3	6025.3	6025.3	6025.3	6025.3	6023.2	6019.0	6023.2	6023.2	6029.6	6035.9
17.5°	5917.7	5917.7	5905.0	5898.7	5900.8	5890.2	5888.1	5879.7	5879.7	5879.7	5886.0
20°	5776.2	5757.2	5742.4	5723.4	5715.0	5710.8	5706.5	5687.5	5685.4	5685.4	5685.4
22.5°	5575.7	5554.5	5533.4	5518.6	5495.4	5487.0	5478.5	5465.9	5451.1	5442.6	5461.6
25°	5330.8	5305.4	5280.1	5250.5	5244.2	5233.6	5212.5	5199.9	5193.5	5185.1	5189.3
27.5°	5071.1	5035.2	5007.7	4978.2	4967.6	4955.0	4936.0	4917.0	4895.8	4900.1	4900.1
30°	4773.4	4731.2	4701.6	4665.7	4663.6	4651.0	4634.1	4610.8	4593.9	4593.9	4604.5
32.5°	4450.4	4420.8	4393.4	4353.3	4346.9	4338.5	4325.8	4304.7	4292.0	4279.4	4287.8
35°	4123.2	4076.7	4057.7	4032.4	4034.5	4011.3	3992.3	3979.6	3981.7	3969.0	3975.4
37.5°	3770.6	3743.1	3715.7	3705.1	3694.6	3681.9	3673.5	3665.0	3660.8	3660.8	3656.6
40°	3413.8	3399.0	3386.3	3382.1	3363.1	3367.3	3365.2	3358.9	3346.2	3342.0	3354.7
42.5°	3078.1	3063.3	3057.0	3046.4	3044.3	3038.0	3038.0	3031.7	3029.6	3031.7	3029.6
45°	2731.9	2729.8	2715.0	2715.0	2723.4	2717.1	2700.2	2710.8	2710.8	2704.4	2717.1
47.5°	2413.1	2415.2	2406.8	2389.9	2389.9	2379.3	2366.6	2377.2	2383.5	2373.0	2379.3
50°	2123.9	2111.2	2094.3	2081.6	2088.0	2083.7	2073.2	2064.7	2058.4	2060.5	2069.0
52.5°	1849.4	1843.1	1824.1	1809.3	1805.1	1807.2	1794.5	1781.8	1784.0	1781.8	1777.6
55°	1602.4	1602.4	1577.1	1570.7	1553.8	1553.8	1536.9	1534.8	1528.5	1528.5	1517.9
57.5°	1389.2	1370.2	1355.4	1340.6	1334.3	1325.8	1319.5	1304.7	1298.4	1285.7	1283.6
60°	1192.8	1169.6	1159.0	1142.2	1129.5	1121.0	1110.5	1097.8	1089.4	1078.8	1066.2
62.5°	1017.6	992.3	971.1	954.3	943.7	941.6	924.7	909.9	893.0	880.4	859.3
65°	842.4	827.6	804.4	781.1	776.9	766.4	749.5	732.6	711.5	692.5	679.8
67.5°	688.2	669.2	648.1	635.5	620.7	612.2	593.2	567.9	544.7	525.7	502.5
70°	551.0	523.6	504.6	483.5	479.2	460.2	443.3	418.0	396.9	371.6	337.8
72.5°	413.8	386.3	371.6	350.5	337.8	327.2	304.0	280.8	247.0	228.0	198.5
75°	291.3	268.1	247.0	225.9	217.5	202.7	183.7	158.3	137.2	118.2	97.1
77.5°	181.6	166.8	147.8	130.9	122.4	114.0	99.2	80.2	65.4	50.7	38.0
80°	103.4	90.8	78.1	65.4	61.2	57.0	44.3	33.8	27.4	19.0	12.7
82.5°	48.6	40.1	33.8	27.4	25.3	21.1	14.8	10.6	6.3	4.2	2.1
85°	14.8	10.6	8.4	6.3	4.2	4.2	2.1	2.1	2.1	2.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	6390.6	6390.6	6390.6	6390.6	6390.6	6390.6	6390.6	6390.6	6390.6	6390.6	6390.6
2.5°	6377.9	6380.0	6382.1	6382.1	6382.1	6384.2	6384.2	6388.5	6390.6	6392.7	6392.7
5°	6344.1	6350.5	6354.7	6356.8	6358.9	6365.2	6367.3	6373.7	6377.9	6382.1	6386.3
7.5°	6297.7	6304.0	6312.5	6316.7	6320.9	6329.3	6335.7	6346.2	6352.6	6361.0	6369.5
10°	6238.6	6247.0	6259.7	6263.9	6268.1	6278.7	6291.3	6304.0	6314.6	6327.2	6337.8
12.5°	6152.0	6164.7	6179.5	6183.7	6190.0	6204.8	6219.6	6238.6	6253.3	6270.2	6287.1
15°	6044.3	6061.2	6071.8	6076.0	6084.4	6105.6	6120.3	6141.4	6164.7	6190.0	6209.0
17.5°	5894.4	5902.9	5921.9	5930.3	5940.9	5962.0	5985.2	6010.6	6031.7	6059.1	6088.7
20°	5698.1	5710.8	5734.0	5742.4	5755.1	5774.1	5807.9	5829.0	5862.8	5896.6	5917.7
22.5°	5453.2	5476.4	5499.6	5510.2	5518.6	5541.9	5565.1	5601.0	5628.4	5674.9	5702.3
25°	5199.9	5206.2	5225.2	5244.2	5248.4	5278.0	5305.4	5347.6	5375.1	5404.6	5442.6
27.5°	4908.5	4917.0	4946.5	4950.7	4952.9	4984.5	5016.2	5050.0	5073.2	5107.0	5126.0
30°	4604.5	4619.3	4631.9	4640.4	4655.2	4670.0	4699.5	4741.7	4758.6	4788.2	4813.5
32.5°	4294.2	4294.2	4323.7	4325.8	4334.3	4368.1	4384.9	4410.3	4439.8	4463.1	4460.9
35°	3985.9	3994.4	4004.9	4019.7	4026.0	4047.2	4053.5	4072.5	4091.5	4108.4	4129.5
37.5°	3667.1	3667.1	3690.4	3700.9	3707.2	3717.8	3728.4	3747.4	3757.9	3764.3	3776.9
40°	3363.1	3371.6	3375.8	3380.0	3380.0	3394.8	3403.2	3418.0	3424.3	3441.2	3432.8
42.5°	3054.9	3050.7	3052.8	3063.3	3065.4	3073.9	3080.2	3088.7	3097.1	3092.9	3107.7
45°	2727.7	2729.8	2734.0	2734.0	2740.3	2750.9	2761.4	2765.7	2772.0	2782.5	2784.7
47.5°	2385.6	2396.2	2389.9	2406.8	2411.0	2413.1	2438.4	2440.5	2461.6	2465.9	2465.9
50°	2066.9	2066.9	2079.5	2085.9	2090.1	2096.4	2104.9	2113.3	2119.6	2134.4	2138.6
52.5°	1779.7	1784.0	1784.0	1777.6	1784.0	1784.0	1805.1	1807.2	1805.1	1809.3	1815.6
55°	1522.2	1524.3	1511.6	1520.1	1517.9	1511.6	1515.8	1503.2	1501.1	1507.4	1503.2
57.5°	1275.2	1266.7	1264.6	1254.0	1254.0	1243.5	1232.9	1232.9	1224.5	1209.7	1207.6
60°	1053.5	1040.8	1032.4	1026.0	1009.1	998.6	983.8	971.1	954.3	935.3	924.7
62.5°	844.5	829.7	812.8	804.4	791.7	766.4	747.4	728.4	700.9	684.0	667.1
65°	658.7	635.5	608.0	595.4	582.7	559.5	534.1	502.5	475.0	451.8	422.2
67.5°	477.1	451.8	424.3	405.3	392.7	365.2	335.7	308.2	276.6	251.2	236.5
70°	312.5	280.8	255.5	240.7	228.0	200.6	173.1	149.9	135.1	128.8	126.7
72.5°	177.3	145.7	126.7	111.9	101.3	82.3	67.6	59.1	54.9	52.8	48.6
75°	76.0	57.0	44.3	35.9	31.7	25.3	23.2	23.2	23.2	21.1	21.1
77.5°	27.4	19.0	14.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
80°	8.4	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
82.5°	4.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P#

CATALOG NUMBER: LX6C130D010 EX6C1309040 6LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	6390.6	6390.6	6390.6	6390.6	6390.6	6390.6	6390.6	6390.6
2.5°	6394.8	6399.0	6399.0	6401.1	6403.2	6403.2	6403.2	6403.2
5°	6390.6	6394.8	6396.9	6399.0	6401.1	6403.2	6403.2	6403.2
7.5°	6373.7	6382.1	6384.2	6388.5	6392.7	6394.8	6394.8	6396.9
10°	6348.3	6356.8	6363.1	6367.3	6371.6	6375.8	6380.0	6380.0
12.5°	6301.9	6314.6	6323.0	6327.2	6337.8	6342.0	6346.2	6350.5
15°	6225.9	6242.8	6253.3	6261.8	6270.2	6282.9	6285.0	6291.3
17.5°	6111.9	6135.1	6139.3	6152.0	6162.6	6183.7	6181.6	6183.7
20°	5947.2	5972.6	5981.0	5993.7	6010.6	6025.3	6038.0	6027.4
22.5°	5727.7	5757.2	5769.9	5782.5	5793.1	5805.8	5822.7	5824.8
25°	5468.0	5493.3	5503.9	5512.3	5533.4	5544.0	5560.9	5563.0
27.5°	5170.3	5185.1	5199.9	5204.1	5227.3	5233.6	5248.4	5248.4
30°	4832.5	4849.4	4866.3	4872.6	4879.0	4885.3	4895.8	4902.2
32.5°	4486.3	4503.2	4509.5	4520.1	4522.2	4532.7	4528.5	4545.4
35°	4140.0	4144.3	4150.6	4148.5	4163.3	4161.2	4178.0	4175.9
37.5°	3791.7	3787.5	3798.0	3808.6	3804.4	3800.1	3806.5	3795.9
40°	3443.3	3445.5	3447.6	3458.1	3447.6	3453.9	3449.7	3447.6
42.5°	3118.2	3118.2	3105.6	3118.2	3109.8	3105.6	3114.0	3101.3
45°	2788.9	2786.8	2788.9	2791.0	2791.0	2791.0	2782.5	2791.0
47.5°	2476.4	2478.5	2470.1	2484.9	2480.6	2472.2	2472.2	2465.9
50°	2145.0	2157.6	2172.4	2159.7	2170.3	2164.0	2157.6	2164.0
52.5°	1830.4	1838.8	1828.3	1830.4	1853.6	1853.6	1841.0	1838.8
55°	1494.7	1494.7	1498.9	1501.1	1503.2	1530.6	1515.8	1520.1
57.5°	1194.9	1194.9	1188.6	1201.3	1192.8	1182.3	1192.8	1165.4
60°	907.8	905.7	899.4	890.9	869.8	863.5	840.3	838.1
62.5°	646.0	622.8	614.4	597.5	574.2	567.9	544.7	542.6
65°	401.1	373.7	365.2	356.8	346.2	344.1	335.7	339.9
67.5°	228.0	223.8	221.7	215.3	211.1	206.9	206.9	204.8
70°	120.3	111.9	109.8	107.7	107.7	99.2	97.1	101.3
72.5°	46.4	42.2	42.2	42.2	40.1	40.1	40.1	40.1
75°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1
77.5°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
80°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)