

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: P683987

Luminaire Tested: **LX6C130D010 EX6C1309027 6LBLWWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P683987  
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 EX6C1309027 6LBLWWH  
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

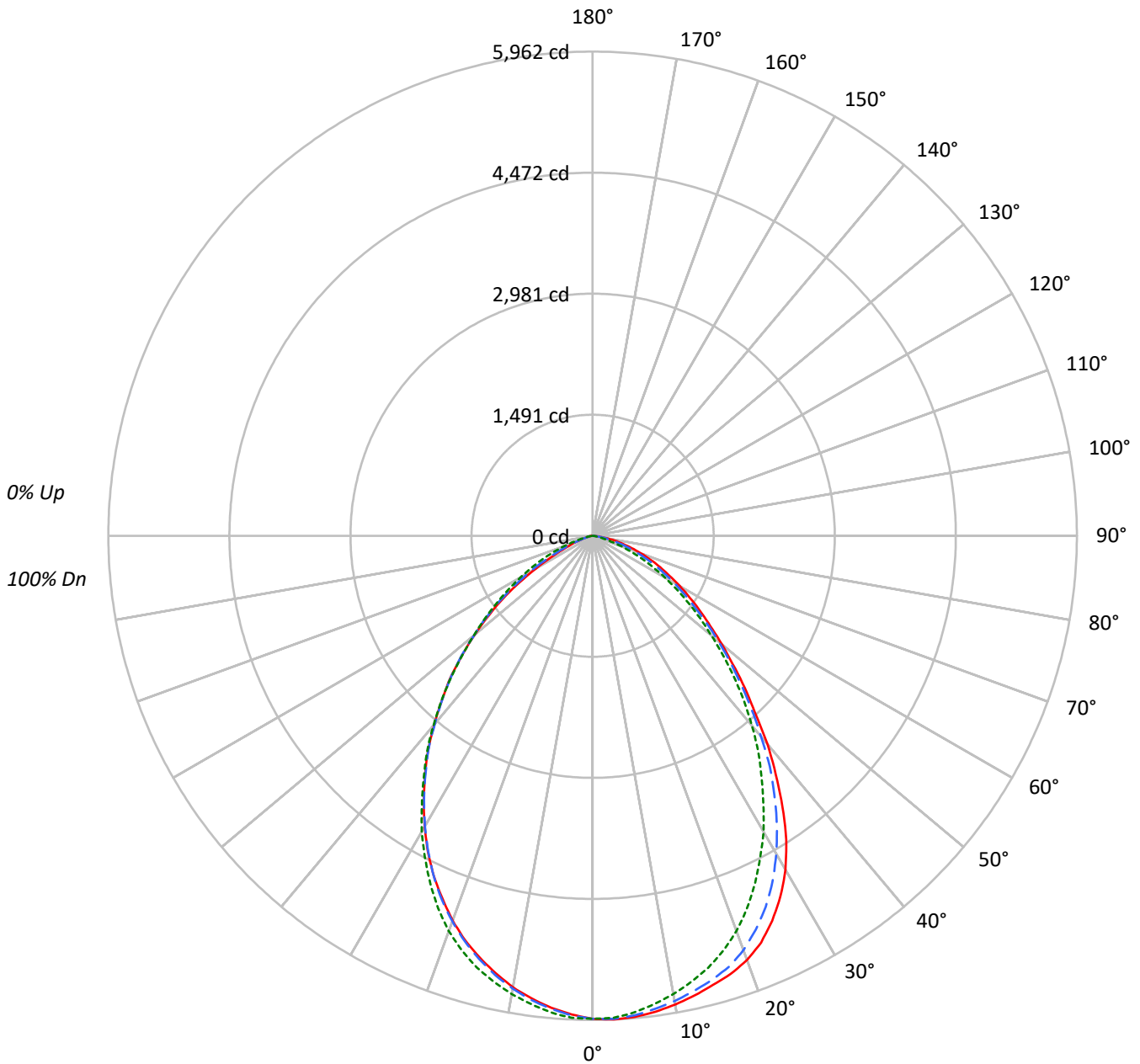
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10820.0 lumens  
Efficiency: N/A  
Efficacy: 75.0 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<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	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°	326092	326092	326092
5°	327228	324256	321070
10°	326230	318993	314317
15°	325002	312402	305144
20°	324274	302111	294066
25°	316385	285912	279621
30°	300597	266300	261869
35°	272839	242462	240856
40°	239384	218209	217064
45°	205238	190671	192214
50°	176668	162511	161658
55°	154413	137209	128798
60°	135702	112458	87910
65°	118794	87143	52911
70°	101267	58648	31079
75°	81737	30500	16945
80°	56825	11996	9471
85°	22644	3774	5032



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	557.4	5.2
10°-20°	1556.4	14.4
20°-30°	2214.8	20.5
30°-40°	2331.2	21.5
40°-50°	1942.7	18.0
50°-60°	1312.5	12.1
60°-70°	665.5	6.2
70°-80°	214.8	2.0
80°-90°	24.7	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°	4328.6	40.0
0°-40°	6659.8	61.6
0°-60°	9915.1	91.6
0°-90°	10820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10820.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5948	5948	5948	5948	5948	
5°	5946	5928	5892	5848	5834	565
15°	5726	5664	5504	5395	5377	1618
25°	5231	5041	4727	4629	4623	2397
35°	4077	3901	3623	3587	3599	2537
45°	2647	2579	2459	2469	2479	2049
55°	1616	1538	1436	1392	1348	1454
65°	916	826	672	486	408	911
75°	386	302	144	78	80	417
85°	36	20	6	8	8	62
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°	5948.4	5948.4	5948.4	5948.4	5948.4	5948.4	5948.4	5948.4	5948.4	5948.4	5948.4
2.5°	5962.4	5962.4	5962.4	5962.4	5962.4	5962.4	5960.4	5960.4	5956.4	5956.4	5954.4
5°	5946.4	5948.4	5948.4	5946.4	5946.4	5942.4	5942.4	5940.4	5934.4	5930.4	5928.4
7.5°	5912.4	5912.4	5910.4	5908.4	5906.4	5900.4	5898.4	5892.4	5888.4	5884.4	5876.4
10°	5860.5	5860.5	5858.5	5854.5	5852.5	5848.5	5848.5	5840.5	5832.5	5822.5	5816.5
12.5°	5798.5	5800.5	5796.5	5794.5	5788.5	5786.5	5782.5	5772.5	5766.5	5754.5	5744.5
15°	5726.5	5730.5	5730.5	5722.5	5716.5	5714.5	5708.5	5702.5	5688.5	5676.5	5664.5
17.5°	5656.5	5660.5	5656.5	5650.5	5644.5	5636.5	5632.5	5620.5	5602.5	5586.5	5568.5
20°	5558.5	5564.5	5556.5	5546.5	5534.5	5532.5	5526.5	5506.5	5480.6	5456.6	5430.6
22.5°	5420.6	5416.6	5410.6	5406.6	5386.6	5374.6	5366.6	5340.6	5312.6	5280.6	5248.6
25°	5230.6	5238.6	5226.6	5208.6	5198.6	5186.6	5166.6	5138.6	5112.6	5078.7	5040.7
27.5°	5006.7	5006.7	4990.7	4984.7	4962.7	4946.7	4936.7	4908.7	4874.7	4840.7	4798.7
30°	4748.7	4736.7	4736.7	4708.8	4690.8	4684.8	4674.8	4628.8	4598.8	4562.8	4520.8
32.5°	4436.8	4434.8	4426.8	4408.8	4384.8	4364.8	4364.8	4332.9	4292.9	4248.9	4222.9
35°	4076.9	4078.9	4074.9	4054.9	4054.9	4030.9	4026.9	3998.9	3967.0	3933.0	3901.0
37.5°	3705.0	3713.0	3705.0	3695.0	3689.0	3687.0	3669.0	3649.0	3625.0	3605.0	3581.1
40°	3345.1	3333.1	3337.1	3317.1	3319.1	3315.1	3307.1	3281.1	3267.1	3247.1	3221.1
42.5°	2957.2	2969.2	2973.2	2961.2	2957.2	2949.2	2957.2	2947.2	2931.2	2921.2	2897.2
45°	2647.3	2635.3	2641.3	2637.3	2639.3	2623.3	2617.3	2613.3	2607.3	2589.3	2579.3
47.5°	2339.4	2341.4	2339.4	2331.4	2327.4	2327.4	2319.4	2307.4	2307.4	2295.4	2287.4
50°	2071.5	2071.5	2075.5	2065.5	2061.5	2053.5	2055.5	2043.5	2035.5	2025.5	2019.5
52.5°	1825.5	1827.5	1819.5	1821.5	1817.5	1817.5	1809.5	1801.5	1793.5	1775.5	1771.5
55°	1615.6	1617.6	1607.6	1611.6	1599.6	1593.6	1589.6	1577.6	1577.6	1559.6	1537.6
57.5°	1419.6	1417.6	1415.6	1409.6	1401.6	1395.6	1389.6	1375.6	1369.6	1357.6	1339.6
60°	1237.7	1235.7	1231.7	1229.7	1223.7	1209.7	1209.7	1199.7	1179.7	1167.7	1149.7
62.5°	1065.7	1065.7	1063.7	1057.7	1051.7	1045.7	1041.7	1033.7	1013.7	999.7	983.7
65°	915.8	913.8	907.8	897.8	893.8	893.8	879.8	873.8	857.8	843.8	825.8
67.5°	771.8	763.8	759.8	761.8	749.8	749.8	737.8	727.8	713.8	689.8	675.8
70°	631.8	627.8	623.8	619.8	617.8	609.8	603.8	591.8	577.8	559.9	537.9
72.5°	505.9	505.9	499.9	495.9	489.9	481.9	477.9	467.9	451.9	431.9	415.9
75°	385.9	385.9	385.9	377.9	373.9	369.9	357.9	351.9	333.9	321.9	301.9
77.5°	283.9	279.9	273.9	271.9	267.9	263.9	257.9	247.9	231.9	217.9	205.9
80°	180.0	186.0	180.0	180.0	170.0	166.0	164.0	152.0	146.0	134.0	124.0
82.5°	100.0	102.0	98.0	96.0	90.0	88.0	88.0	80.0	76.0	68.0	62.0
85°	36.0	38.0	36.0	36.0	32.0	34.0	32.0	30.0	26.0	22.0	20.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	5948.4	5948.4	5948.4	5948.4	5948.4	5948.4	5948.4	5948.4	5948.4	5948.4	5948.4
2.5°	5954.4	5950.4	5950.4	5948.4	5946.4	5946.4	5946.4	5944.4	5940.4	5940.4	5938.4
5°	5924.4	5920.4	5914.4	5910.4	5908.4	5906.4	5904.4	5902.4	5894.4	5892.4	5886.4
7.5°	5870.4	5866.5	5856.5	5852.5	5846.5	5844.5	5836.5	5832.5	5824.5	5816.5	5812.5
10°	5806.5	5796.5	5788.5	5778.5	5774.5	5768.5	5758.5	5746.5	5740.5	5730.5	5722.5
12.5°	5734.5	5722.5	5706.5	5694.5	5690.5	5680.5	5664.5	5654.5	5640.5	5624.5	5610.5
15°	5644.5	5630.5	5616.5	5594.5	5588.5	5576.5	5560.5	5540.5	5520.5	5504.5	5488.6
17.5°	5546.5	5524.5	5502.5	5478.6	5460.6	5454.6	5428.6	5400.6	5382.6	5354.6	5336.6
20°	5408.6	5378.6	5342.6	5318.6	5302.6	5284.6	5254.6	5224.6	5202.6	5178.6	5152.6
22.5°	5218.6	5190.6	5148.6	5112.6	5100.7	5074.7	5048.7	5020.7	4992.7	4966.7	4934.7
25°	4994.7	4964.7	4922.7	4886.7	4866.7	4854.7	4804.7	4776.7	4748.7	4726.8	4704.8
27.5°	4764.7	4710.8	4682.8	4626.8	4608.8	4604.8	4558.8	4528.8	4498.8	4468.8	4440.8
30°	4480.8	4438.8	4396.8	4356.8	4332.9	4318.9	4284.9	4246.9	4226.9	4206.9	4178.9
32.5°	4186.9	4148.9	4096.9	4058.9	4040.9	4020.9	3990.9	3965.0	3935.0	3913.0	3907.0
35°	3873.0	3831.0	3787.0	3759.0	3755.0	3731.0	3701.0	3679.0	3657.0	3623.0	3617.0
37.5°	3537.1	3513.1	3483.1	3443.1	3425.1	3425.1	3395.1	3379.1	3351.1	3349.1	3333.1
40°	3207.2	3197.2	3151.2	3139.2	3135.2	3107.2	3099.2	3071.2	3051.2	3049.2	3025.2
42.5°	2881.2	2855.2	2847.2	2827.3	2809.3	2805.3	2787.3	2775.3	2767.3	2755.3	2743.3
45°	2557.3	2551.3	2531.3	2517.3	2511.3	2503.3	2497.3	2473.3	2469.3	2459.4	2453.4
47.5°	2277.4	2261.4	2243.4	2227.4	2225.4	2213.4	2199.4	2199.4	2177.4	2175.4	2171.4
50°	1999.5	1987.5	1977.5	1955.5	1959.5	1943.5	1941.5	1923.5	1913.5	1905.5	1915.5
52.5°	1755.5	1731.5	1727.5	1709.5	1703.5	1705.5	1683.6	1677.6	1673.6	1665.6	1661.6
55°	1523.6	1511.6	1495.6	1483.6	1473.6	1463.6	1455.6	1455.6	1433.6	1435.6	1425.6
57.5°	1319.7	1309.7	1289.7	1271.7	1267.7	1255.7	1245.7	1235.7	1233.7	1219.7	1209.7
60°	1137.7	1119.7	1093.7	1085.7	1073.7	1063.7	1053.7	1041.7	1035.7	1025.7	1007.7
62.5°	967.7	937.8	927.8	911.8	897.8	891.8	875.8	861.8	851.8	837.8	823.8
65°	805.8	783.8	765.8	747.8	745.8	729.8	715.8	703.8	683.8	671.8	645.8
67.5°	657.8	637.8	617.8	599.8	585.8	581.8	559.9	545.9	531.9	507.9	485.9
70°	521.9	501.9	485.9	463.9	457.9	441.9	425.9	411.9	387.9	365.9	347.9
72.5°	397.9	375.9	357.9	341.9	331.9	317.9	301.9	285.9	261.9	239.9	223.9
75°	283.9	267.9	249.9	233.9	225.9	217.9	199.9	182.0	166.0	144.0	130.0
77.5°	191.9	176.0	160.0	146.0	136.0	130.0	118.0	104.0	90.0	78.0	68.0
80°	112.0	102.0	90.0	78.0	76.0	70.0	60.0	52.0	44.0	38.0	30.0
82.5°	54.0	48.0	40.0	34.0	30.0	28.0	24.0	20.0	16.0	14.0	14.0
85°	16.0	14.0	12.0	10.0	8.0	8.0	6.0	6.0	6.0	6.0	6.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	5948.4	5948.4	5948.4	5948.4	5948.4	5948.4	5948.4	5948.4	5948.4	5948.4	5948.4
2.5°	5932.4	5930.4	5928.4	5926.4	5922.4	5922.4	5916.4	5912.4	5912.4	5908.4	5906.4
5°	5880.4	5874.4	5872.4	5868.4	5864.5	5862.5	5854.5	5852.5	5848.5	5844.5	5844.5
7.5°	5806.5	5798.5	5790.5	5786.5	5784.5	5778.5	5774.5	5772.5	5766.5	5762.5	5754.5
10°	5708.5	5702.5	5692.5	5688.5	5684.5	5680.5	5670.5	5664.5	5662.5	5658.5	5654.5
12.5°	5594.5	5586.5	5576.5	5568.5	5564.5	5558.5	5548.5	5542.5	5542.5	5534.5	5534.5
15°	5472.6	5460.6	5442.6	5434.6	5432.6	5420.6	5412.6	5404.6	5394.6	5390.6	5390.6
17.5°	5316.6	5296.6	5280.6	5280.6	5272.6	5260.6	5248.6	5242.6	5236.6	5228.6	5224.6
20°	5132.6	5118.6	5100.7	5100.7	5082.7	5078.7	5066.7	5064.7	5050.7	5052.7	5046.7
22.5°	4910.7	4902.7	4892.7	4884.7	4874.7	4862.7	4856.7	4858.7	4852.7	4850.7	4848.7
25°	4686.8	4664.8	4652.8	4648.8	4644.8	4634.8	4630.8	4628.8	4628.8	4622.8	4624.8
27.5°	4428.8	4412.8	4396.8	4402.8	4394.8	4388.8	4384.8	4378.8	4382.8	4380.8	4382.8
30°	4164.9	4144.9	4134.9	4138.9	4136.9	4120.9	4128.9	4126.9	4128.9	4128.9	4132.9
32.5°	3887.0	3873.0	3871.0	3873.0	3855.0	3857.0	3849.0	3861.0	3863.0	3875.0	3865.0
35°	3605.0	3597.0	3583.1	3581.1	3583.1	3581.1	3581.1	3589.1	3587.1	3599.0	3595.1
37.5°	3315.1	3311.1	3297.1	3301.1	3293.1	3307.1	3311.1	3307.1	3321.1	3317.1	3315.1
40°	3031.2	3025.2	3017.2	3033.2	3023.2	3015.2	3029.2	3017.2	3021.2	3033.2	3033.2
42.5°	2743.3	2733.3	2733.3	2733.3	2731.3	2731.3	2737.3	2743.3	2739.3	2741.3	2757.3
45°	2453.4	2451.4	2445.4	2449.4	2447.4	2457.4	2457.4	2461.3	2469.3	2477.3	2473.3
47.5°	2173.4	2169.4	2175.4	2171.4	2173.4	2167.4	2171.4	2183.4	2193.4	2179.4	2193.4
50°	1911.5	1903.5	1901.5	1907.5	1905.5	1903.5	1907.5	1907.5	1903.5	1903.5	1917.5
52.5°	1661.6	1653.6	1647.6	1657.6	1651.6	1653.6	1645.6	1645.6	1649.6	1645.6	1639.6
55°	1427.6	1421.6	1413.6	1417.6	1407.6	1405.6	1397.6	1397.6	1391.6	1387.6	1375.6
57.5°	1203.7	1199.7	1181.7	1179.7	1181.7	1167.7	1153.7	1147.7	1131.7	1127.7	1125.7
60°	1005.7	983.7	973.7	961.7	953.7	947.7	931.8	921.8	897.8	883.8	881.8
62.5°	799.8	789.8	777.8	759.8	755.8	735.8	719.8	693.8	681.8	663.8	645.8
65°	633.8	607.8	589.8	579.8	563.9	545.9	527.9	499.9	485.9	463.9	445.9
67.5°	463.9	441.9	417.9	409.9	395.9	373.9	355.9	331.9	319.9	299.9	293.9
70°	317.9	297.9	279.9	267.9	257.9	235.9	217.9	209.9	197.9	193.9	193.9
72.5°	203.9	186.0	166.0	160.0	152.0	140.0	128.0	124.0	128.0	126.0	126.0
75°	114.0	104.0	90.0	84.0	84.0	80.0	78.0	78.0	78.0	78.0	78.0
77.5°	58.0	52.0	48.0	46.0	46.0	46.0	48.0	48.0	48.0	50.0	48.0
80°	28.0	26.0	26.0	26.0	28.0	28.0	28.0	28.0	28.0	30.0	28.0
82.5°	14.0	14.0	14.0	14.0	14.0	14.0	16.0	16.0	16.0	16.0	16.0
85°	6.0	6.0	6.0	6.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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: P683987

CATALOG NUMBER: LX6C130D010 EX6C1309027 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5948.4	5948.4	5948.4	5948.4	5948.4	5948.4	5948.4	5948.4
2.5°	5904.4	5900.4	5900.4	5898.4	5898.4	5898.4	5898.4	5900.4
5°	5840.5	5838.5	5838.5	5834.5	5834.5	5834.5	5834.5	5834.5
7.5°	5754.5	5750.5	5752.5	5748.5	5748.5	5750.5	5748.5	5746.5
10°	5648.5	5646.5	5648.5	5648.5	5644.5	5642.5	5644.5	5646.5
12.5°	5528.5	5526.5	5522.5	5524.5	5524.5	5522.5	5520.5	5516.5
15°	5388.6	5386.6	5384.6	5382.6	5380.6	5382.6	5380.6	5376.6
17.5°	5224.6	5224.6	5222.6	5220.6	5218.6	5214.6	5216.6	5222.6
20°	5048.7	5046.7	5042.7	5044.7	5036.7	5032.7	5034.7	5040.7
22.5°	4846.7	4840.7	4844.7	4838.7	4838.7	4840.7	4838.7	4834.7
25°	4626.8	4618.8	4622.8	4624.8	4624.8	4622.8	4620.8	4622.8
27.5°	4382.8	4388.8	4388.8	4384.8	4390.8	4382.8	4386.8	4388.8
30°	4132.9	4126.9	4124.9	4132.9	4144.9	4134.9	4134.9	4136.9
32.5°	3875.0	3867.0	3867.0	3871.0	3869.0	3869.0	3877.0	3867.0
35°	3599.0	3603.0	3587.1	3597.0	3601.0	3597.0	3599.0	3599.0
37.5°	3321.1	3317.1	3317.1	3317.1	3323.1	3323.1	3327.1	3325.1
40°	3047.2	3039.2	3037.2	3041.2	3033.2	3039.2	3039.2	3033.2
42.5°	2751.3	2753.3	2763.3	2753.3	2755.3	2753.3	2749.3	2747.3
45°	2477.3	2483.3	2479.3	2477.3	2479.3	2471.3	2473.3	2479.3
47.5°	2187.4	2199.4	2187.4	2195.4	2193.4	2189.4	2185.4	2177.4
50°	1915.5	1919.5	1917.5	1915.5	1913.5	1911.5	1901.5	1895.5
52.5°	1637.6	1637.6	1637.6	1637.6	1617.6	1627.6	1623.6	1611.6
55°	1365.6	1371.6	1363.6	1363.6	1349.6	1349.6	1345.6	1347.6
57.5°	1103.7	1097.7	1091.7	1091.7	1077.7	1071.7	1065.7	1057.7
60°	859.8	853.8	845.8	835.8	821.8	821.8	817.8	801.8
62.5°	629.8	619.8	613.8	605.8	593.8	585.8	579.8	583.8
65°	431.9	421.9	413.9	413.9	413.9	409.9	407.9	407.9
67.5°	283.9	289.9	285.9	289.9	289.9	285.9	283.9	287.9
70°	195.9	195.9	193.9	193.9	193.9	193.9	191.9	193.9
72.5°	126.0	126.0	126.0	128.0	126.0	126.0	128.0	128.0
75°	80.0	80.0	80.0	82.0	80.0	80.0	82.0	80.0
77.5°	48.0	50.0	50.0	50.0	50.0	48.0	50.0	50.0
80°	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
82.5°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
85°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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)