

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: P685255

Luminaire Tested: **LX6C80D010 EX6809040 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P685255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C80D010 EX6809040 6LCSWLI
Description: 6 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

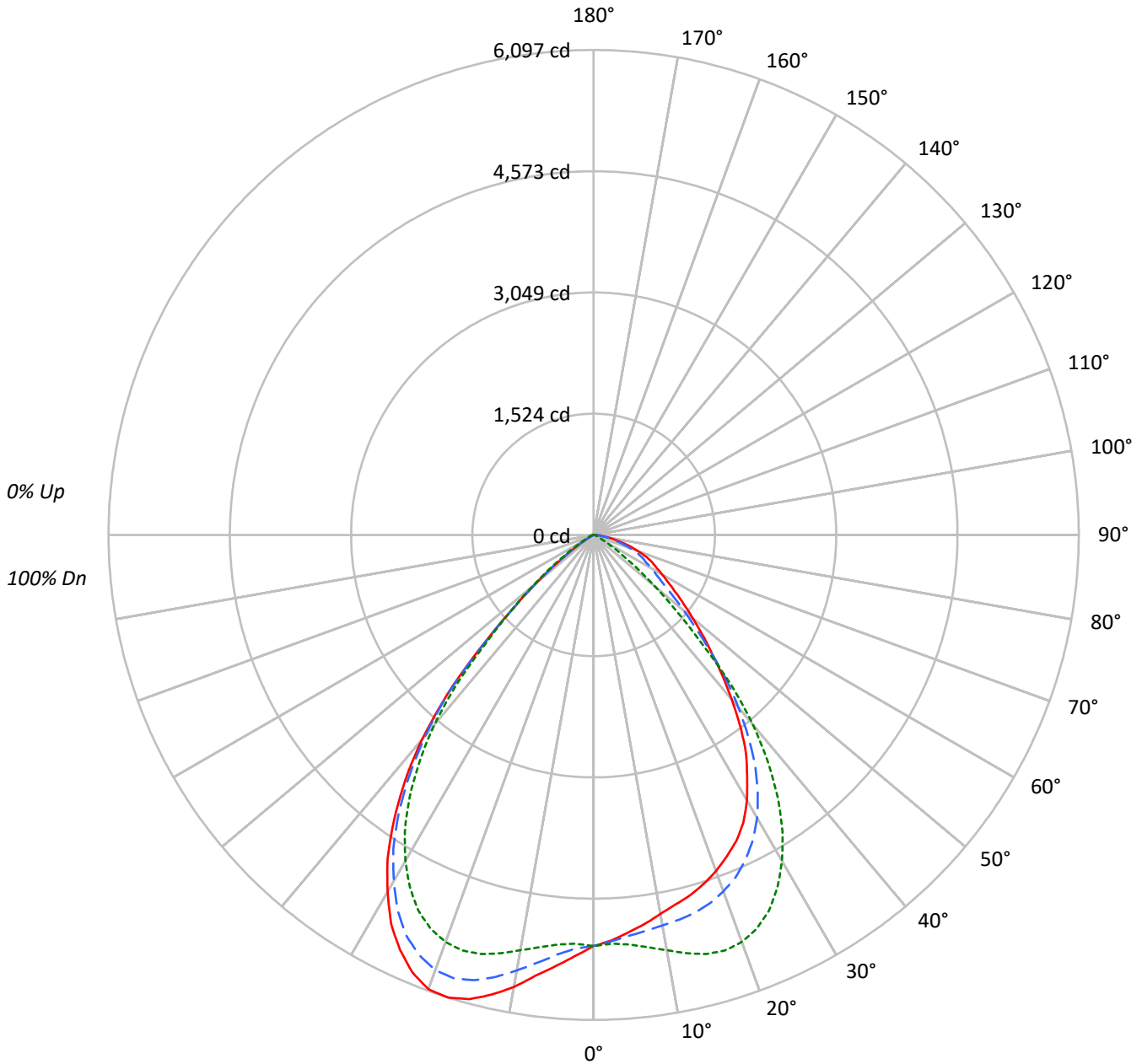
Lumens per Lamp: N/A
Luminaire Lumens: 9447.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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			100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65			65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53			53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40			40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	283327	283327	283327
5°	275979	284409	299361
10°	269267	295118	321253
15°	266120	309582	342953
20°	262301	317653	354540
25°	256733	315302	348177
30°	243962	299635	327778
35°	223195	270148	292635
40°	193062	223111	240078
45°	162808	146333	157047
50°	138221	84705	79648
55°	119948	40610	30689
60°	108347	18957	7576
65°	105096	10883	2555
70°	94247	8719	2388
75°	77459	6291	1059
80°	57678	3094	0
85°	49753	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.2	5.3
10°-20°	1521.4	16.1
20°-30°	2324.6	24.6
30°-40°	2431.3	25.7
40°-50°	1577.2	16.7
50°-60°	626.2	6.6
60°-70°	297.1	3.1
70°-80°	141.3	1.5
80°-90°	28.8	0.3
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°	4345.2	46.0
0°-40°	6776.4	71.7
0°-60°	8979.9	95.1
0°-90°	9447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9447.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5168	5168	5168	5168	5168	
5°	5015	5060	5168	5297	5440	474
15°	4689	4916	5455	5796	6043	1321
25°	4244	4511	5213	5564	5756	1944
35°	3335	3538	4037	4274	4373	2063
45°	2100	2080	1888	2001	2026	1634
55°	1255	1067	425	331	321	1137
65°	810	672	84	20	20	791
75°	366	296	30	10	5	394
85°	79	49	0	0	0	92
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°	5168.3	5168.3	5168.3	5168.3	5168.3	5168.3	5168.3	5168.3	5168.3	5168.3	5168.3
2.5°	5104.0	5113.9	5059.6	5044.8	5084.3	5099.0	5104.0	5089.2	5094.2	5113.9	5113.9
5°	5015.1	5024.9	4975.5	4960.6	5000.2	5010.2	5024.9	5020.1	5034.9	5064.5	5059.6
7.5°	4931.1	4946.0	4891.6	4871.9	4921.3	4946.0	4955.8	4955.8	4975.5	5015.1	5020.1
10°	4837.2	4857.0	4807.6	4797.6	4852.0	4876.7	4881.7	4891.6	4921.3	4975.5	4985.3
12.5°	4758.2	4777.9	4743.4	4728.5	4787.8	4812.5	4822.3	4842.2	4876.7	4946.0	4955.8
15°	4689.0	4703.8	4664.3	4654.4	4713.7	4743.4	4748.2	4777.9	4822.3	4901.4	4916.3
17.5°	4600.0	4609.8	4580.3	4570.5	4629.7	4659.2	4664.3	4698.8	4753.2	4832.3	4857.0
20°	4496.2	4506.2	4476.5	4466.7	4525.9	4560.4	4565.5	4595.2	4659.2	4743.4	4768.1
22.5°	4372.7	4392.6	4358.0	4348.0	4407.4	4436.9	4451.8	4476.5	4540.8	4624.7	4659.2
25°	4244.4	4244.4	4219.7	4214.7	4269.1	4303.6	4298.6	4333.1	4397.4	4481.5	4511.0
27.5°	4076.3	4071.3	4046.6	4041.8	4101.0	4130.7	4120.7	4155.4	4214.7	4298.6	4328.3
30°	3854.0	3863.9	3829.3	3819.3	3868.9	3918.3	3913.3	3947.8	4007.0	4086.1	4106.0
32.5°	3587.1	3597.0	3592.2	3577.3	3621.7	3646.4	3661.2	3685.9	3735.3	3819.3	3839.2
35°	3335.1	3320.3	3300.6	3300.6	3345.0	3384.5	3369.7	3399.4	3448.8	3532.7	3537.7
37.5°	3023.9	3018.9	3009.0	2999.2	3048.6	3058.4	3063.4	3083.1	3127.7	3196.8	3186.9
40°	2697.8	2702.6	2697.8	2677.9	2707.6	2747.2	2742.2	2752.2	2791.6	2841.0	2826.3
42.5°	2391.4	2391.4	2391.4	2371.7	2406.2	2426.1	2435.9	2430.9	2440.8	2485.3	2465.5
45°	2100.0	2104.8	2100.0	2095.0	2100.0	2109.8	2100.0	2095.0	2095.0	2109.8	2080.1
47.5°	1848.0	1848.0	1833.1	1818.3	1833.1	1838.0	1823.3	1808.4	1803.4	1798.6	1749.2
50°	1620.7	1615.7	1610.8	1586.1	1600.8	1605.8	1586.1	1576.1	1556.4	1531.7	1472.5
52.5°	1423.1	1418.1	1413.1	1388.4	1398.4	1403.2	1383.5	1363.7	1339.0	1319.3	1245.2
55°	1255.0	1250.0	1250.0	1235.3	1225.3	1235.3	1215.5	1200.6	1166.1	1141.4	1067.3
57.5°	1111.7	1111.7	1101.8	1087.0	1092.0	1092.0	1072.3	1052.4	1022.7	993.2	933.9
60°	988.2	988.2	988.2	973.3	973.3	973.3	963.5	943.8	919.1	889.4	830.1
62.5°	889.4	889.4	884.3	869.7	874.5	874.5	864.7	845.0	820.3	800.4	741.2
65°	810.2	810.2	810.2	795.6	795.6	800.4	790.6	770.9	751.0	726.3	671.9
67.5°	711.4	706.6	706.6	696.6	701.6	706.6	696.6	681.9	657.2	642.4	593.0
70°	588.0	593.0	597.8	583.1	588.0	588.0	583.1	568.3	553.4	538.6	494.2
72.5°	479.3	479.3	474.3	469.5	469.5	474.3	464.5	449.6	439.8	429.9	395.2
75°	365.7	360.6	365.7	355.8	355.8	355.8	345.8	341.0	335.9	321.1	296.4
77.5°	266.9	261.8	261.8	252.0	257.0	257.0	252.0	242.2	232.1	227.3	207.4
80°	182.7	182.7	182.7	177.9	177.9	172.9	172.9	168.1	158.0	153.2	143.4
82.5°	123.5	123.5	123.5	118.7	118.7	118.7	113.7	108.6	103.8	98.8	89.0
85°	79.1	79.1	79.1	74.1	74.1	74.1	69.1	69.1	64.3	59.2	49.4
87.5°	44.4	44.4	44.4	39.6	39.6	39.6	39.6	39.6	34.5	29.7	24.7
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°	5168.3	5168.3	5168.3	5168.3	5168.3	5168.3	5168.3	5168.3	5168.3	5168.3	5168.3
2.5°	5148.4	5079.3	5123.7	5123.7	5109.0	5148.4	5173.3	5193.0	5188.0	5143.6	5138.6
5°	5109.0	5049.6	5099.0	5104.0	5089.2	5143.6	5178.1	5202.8	5207.8	5168.3	5173.3
7.5°	5079.3	5029.9	5094.2	5113.9	5109.0	5158.4	5198.0	5237.4	5257.2	5227.5	5232.5
10°	5064.5	5024.9	5094.2	5123.7	5128.7	5183.1	5242.4	5296.8	5321.5	5301.6	5316.5
12.5°	5044.8	5020.1	5099.0	5143.6	5163.3	5217.7	5291.8	5356.0	5395.6	5385.7	5415.3
15°	5024.9	5005.2	5099.0	5163.3	5188.0	5237.4	5321.5	5415.3	5459.8	5454.8	5494.4
17.5°	4975.5	4970.7	5069.5	5138.6	5173.3	5232.5	5311.5	5425.1	5469.7	5479.5	5528.9
20°	4896.6	4896.6	5005.2	5079.3	5118.9	5173.3	5272.1	5380.7	5435.1	5445.0	5499.4
22.5°	4787.8	4797.6	4901.4	4975.5	5034.9	5074.3	5178.1	5291.8	5341.2	5356.0	5415.3
25°	4644.6	4654.4	4753.2	4827.3	4891.6	4935.9	5034.9	5138.6	5198.0	5212.7	5257.2
27.5°	4456.8	4476.5	4570.5	4644.6	4698.8	4728.5	4832.3	4941.0	4985.3	5000.2	5044.8
30°	4239.4	4244.4	4338.2	4402.4	4456.8	4481.5	4570.5	4684.1	4718.7	4733.5	4797.6
32.5°	3972.5	3967.7	4056.6	4115.9	4160.2	4190.0	4283.7	4358.0	4392.6	4417.3	4451.8
35°	3651.4	3646.4	3710.6	3779.9	3814.5	3824.3	3918.3	3997.2	4017.1	4036.7	4081.3
37.5°	3290.8	3290.8	3345.0	3379.7	3419.1	3433.9	3478.5	3567.5	3602.0	3597.0	3631.5
40°	2910.2	2890.6	2929.9	2964.7	2974.5	2979.3	3023.9	3093.0	3117.7	3117.7	3142.4
42.5°	2510.0	2480.3	2485.3	2505.0	2514.9	2480.3	2510.0	2554.4	2539.6	2559.4	2564.4
45°	2085.1	2040.6	2020.9	1976.3	1986.3	1951.6	1931.9	1941.8	1936.9	1887.5	1897.4
47.5°	1739.2	1660.2	1625.5	1561.4	1546.6	1507.0	1482.3	1437.8	1398.4	1398.4	1373.5
50°	1447.8	1368.7	1299.4	1225.3	1200.6	1166.1	1111.7	1052.4	1022.7	993.2	968.5
52.5°	1215.5	1131.5	1047.4	968.5	933.9	889.4	815.3	756.0	701.6	671.9	642.4
55°	1027.7	933.9	845.0	760.8	716.5	671.9	597.8	528.7	464.5	424.9	400.2
57.5°	884.3	795.6	701.6	612.7	573.1	523.7	444.8	370.5	311.2	266.9	242.2
60°	780.7	691.8	607.8	513.9	474.3	424.9	341.0	271.7	212.5	172.9	143.4
62.5°	691.8	612.7	523.7	439.8	400.2	350.8	271.7	202.6	148.2	108.6	83.9
65°	627.5	548.4	474.3	390.4	355.8	306.4	232.1	168.1	118.7	83.9	59.2
67.5°	553.4	484.1	410.0	341.0	306.4	266.9	197.6	143.4	98.8	69.1	49.4
70°	464.5	410.0	345.8	281.7	257.0	222.3	163.1	118.7	79.1	54.4	39.6
72.5°	370.5	326.1	276.7	227.3	207.4	172.9	133.3	94.0	59.2	39.6	29.7
75°	281.7	247.0	207.4	172.9	153.2	133.3	98.8	69.1	44.4	29.7	19.7
77.5°	192.8	177.9	148.2	118.7	108.6	94.0	64.3	44.4	29.7	19.7	9.8
80°	133.3	118.7	98.8	79.1	69.1	59.2	39.6	29.7	14.9	9.8	5.0
82.5°	83.9	69.1	59.2	49.4	44.4	34.5	24.7	14.9	9.8	5.0	5.0
85°	44.4	39.6	34.5	24.7	24.7	19.7	14.9	9.8	5.0	0.0	0.0
87.5°	24.7	19.7	14.9	9.8	9.8	5.0	5.0	5.0	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°	5168.3	5168.3	5168.3	5168.3	5168.3	5168.3	5168.3	5168.3	5168.3	5168.3	5168.3
2.5°	5198.0	5198.0	5193.0	5252.2	5183.1	5252.2	5217.7	5252.2	5202.8	5198.0	5202.8
5°	5237.4	5252.2	5257.2	5311.5	5247.4	5331.3	5301.6	5331.3	5296.8	5306.6	5321.5
7.5°	5316.5	5341.2	5336.3	5405.4	5341.2	5435.1	5415.3	5459.8	5425.1	5435.1	5454.8
10°	5405.4	5435.1	5440.0	5509.2	5449.8	5563.5	5538.8	5588.2	5558.6	5573.5	5598.2
12.5°	5509.2	5543.8	5548.8	5627.7	5563.5	5682.1	5667.3	5716.7	5692.0	5706.8	5736.5
15°	5588.2	5637.6	5647.6	5726.5	5657.4	5780.9	5771.1	5835.3	5795.8	5820.5	5845.2
17.5°	5627.7	5672.3	5692.0	5766.1	5706.8	5830.3	5820.5	5874.9	5845.2	5869.9	5899.6
20°	5603.0	5657.4	5672.3	5746.4	5687.1	5810.6	5795.8	5850.2	5820.5	5840.2	5869.9
22.5°	5514.1	5568.5	5588.2	5657.4	5603.0	5716.7	5711.8	5761.2	5721.7	5746.4	5771.1
25°	5356.0	5415.3	5425.1	5489.4	5430.1	5548.8	5538.8	5593.2	5563.5	5578.3	5612.9
27.5°	5128.7	5198.0	5212.7	5267.1	5222.7	5321.5	5321.5	5365.9	5331.3	5331.3	5365.9
30°	4857.0	4926.1	4935.9	4980.5	4941.0	5029.9	5034.9	5079.3	5024.9	5054.6	5059.6
32.5°	4525.9	4570.5	4600.0	4639.6	4580.3	4694.0	4679.1	4713.7	4684.1	4684.1	4708.8
35°	4125.7	4180.1	4195.0	4244.4	4195.0	4283.7	4283.7	4303.6	4273.9	4273.9	4313.5
37.5°	3691.0	3730.5	3735.3	3784.7	3745.2	3819.3	3814.5	3829.3	3799.6	3819.3	3819.3
40°	3181.9	3211.6	3221.5	3246.2	3241.4	3295.6	3290.8	3300.6	3285.7	3290.8	3300.6
42.5°	2589.1	2628.5	2648.4	2668.1	2638.5	2712.6	2697.8	2712.6	2707.6	2712.6	2727.5
45°	1907.2	1936.9	1951.6	1956.6	1946.8	1991.2	2025.7	1996.2	2001.0	1991.2	2011.0
47.5°	1378.5	1383.5	1373.5	1403.2	1378.5	1398.4	1408.2	1413.1	1383.5	1378.5	1398.4
50°	943.8	968.5	933.9	948.6	943.8	963.5	953.6	958.6	928.9	943.8	933.9
52.5°	627.5	622.5	612.7	617.7	607.8	607.8	607.8	617.7	597.8	588.0	578.1
55°	380.5	370.5	350.8	345.8	345.8	350.8	341.0	331.1	331.1	326.1	326.1
57.5°	222.3	207.4	197.6	192.8	182.7	177.9	172.9	172.9	163.1	163.1	163.1
60°	123.5	108.6	98.8	89.0	89.0	83.9	79.1	74.1	74.1	74.1	69.1
62.5°	64.3	54.4	44.4	39.6	39.6	34.5	29.7	29.7	29.7	29.7	24.7
65°	44.4	34.5	29.7	24.7	24.7	19.7	19.7	19.7	19.7	19.7	19.7
67.5°	34.5	29.7	24.7	19.7	19.7	19.7	14.9	14.9	14.9	14.9	14.9
70°	29.7	19.7	19.7	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
72.5°	19.7	19.7	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
75°	14.9	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
77.5°	5.0	5.0	5.0	5.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0
80°	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P685255

CATALOG NUMBER: LX6C80D010 EX6809040 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5168.3	5168.3	5168.3	5168.3	5168.3	5168.3	5168.3	5168.3
2.5°	5247.4	5242.4	5247.4	5257.2	5237.4	5296.8	5267.1	5296.8
5°	5361.0	5365.9	5370.9	5385.7	5361.0	5435.1	5395.6	5440.0
7.5°	5509.2	5514.1	5519.1	5533.9	5519.1	5593.2	5548.8	5588.2
10°	5662.4	5672.3	5672.3	5697.0	5682.1	5751.2	5721.7	5771.1
12.5°	5805.6	5815.5	5825.5	5840.2	5830.3	5904.4	5879.7	5919.3
15°	5919.3	5939.0	5944.0	5963.7	5953.8	6032.9	6003.2	6042.8
17.5°	5973.7	5993.4	5993.4	6018.1	6008.2	6092.2	6052.6	6097.2
20°	5944.0	5958.8	5963.7	5988.5	5978.5	6062.6	6023.1	6077.3
22.5°	5850.2	5855.0	5860.0	5884.7	5879.7	5953.8	5919.3	5953.8
25°	5677.1	5692.0	5687.1	5706.8	5706.8	5766.1	5726.5	5756.2
27.5°	5430.1	5445.0	5445.0	5469.7	5449.8	5509.2	5469.7	5514.1
30°	5128.7	5143.6	5133.7	5153.4	5133.7	5193.0	5163.3	5178.1
32.5°	4768.1	4768.1	4772.9	4777.9	4768.1	4822.3	4792.8	4822.3
35°	4338.2	4348.0	4353.0	4358.0	4348.0	4387.6	4353.0	4372.7
37.5°	3854.0	3878.7	3873.7	3878.7	3863.9	3913.3	3883.5	3893.6
40°	3335.1	3335.1	3330.1	3340.2	3325.3	3364.9	3345.0	3354.8
42.5°	2732.3	2747.2	2727.5	2752.2	2712.6	2766.9	2747.2	2732.3
45°	2050.6	2030.7	2025.7	2030.7	2015.9	2020.9	2035.7	2025.7
47.5°	1398.4	1398.4	1388.4	1373.5	1393.4	1398.4	1378.5	1378.5
50°	938.8	938.8	928.9	923.9	933.9	928.9	919.1	933.9
52.5°	597.8	578.1	578.1	588.0	578.1	568.3	583.1	573.1
55°	326.1	316.3	316.3	326.1	316.3	316.3	311.2	321.1
57.5°	158.0	163.1	158.0	158.0	158.0	158.0	153.2	158.0
60°	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
62.5°	29.7	29.7	24.7	24.7	24.7	24.7	24.7	24.7
65°	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
67.5°	14.9	14.9	14.9	14.9	14.9	19.7	14.9	14.9
70°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
72.5°	14.9	14.9	19.7	19.7	19.7	19.7	19.7	19.7
75°	9.8	9.8	9.8	5.0	5.0	5.0	5.0	5.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)