

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: P684674

Luminaire Tested: **LX6C80D010 EX6C809727 6LCSWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C80D010 EX6C809727 6LCSWH
Description: 6 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 97CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

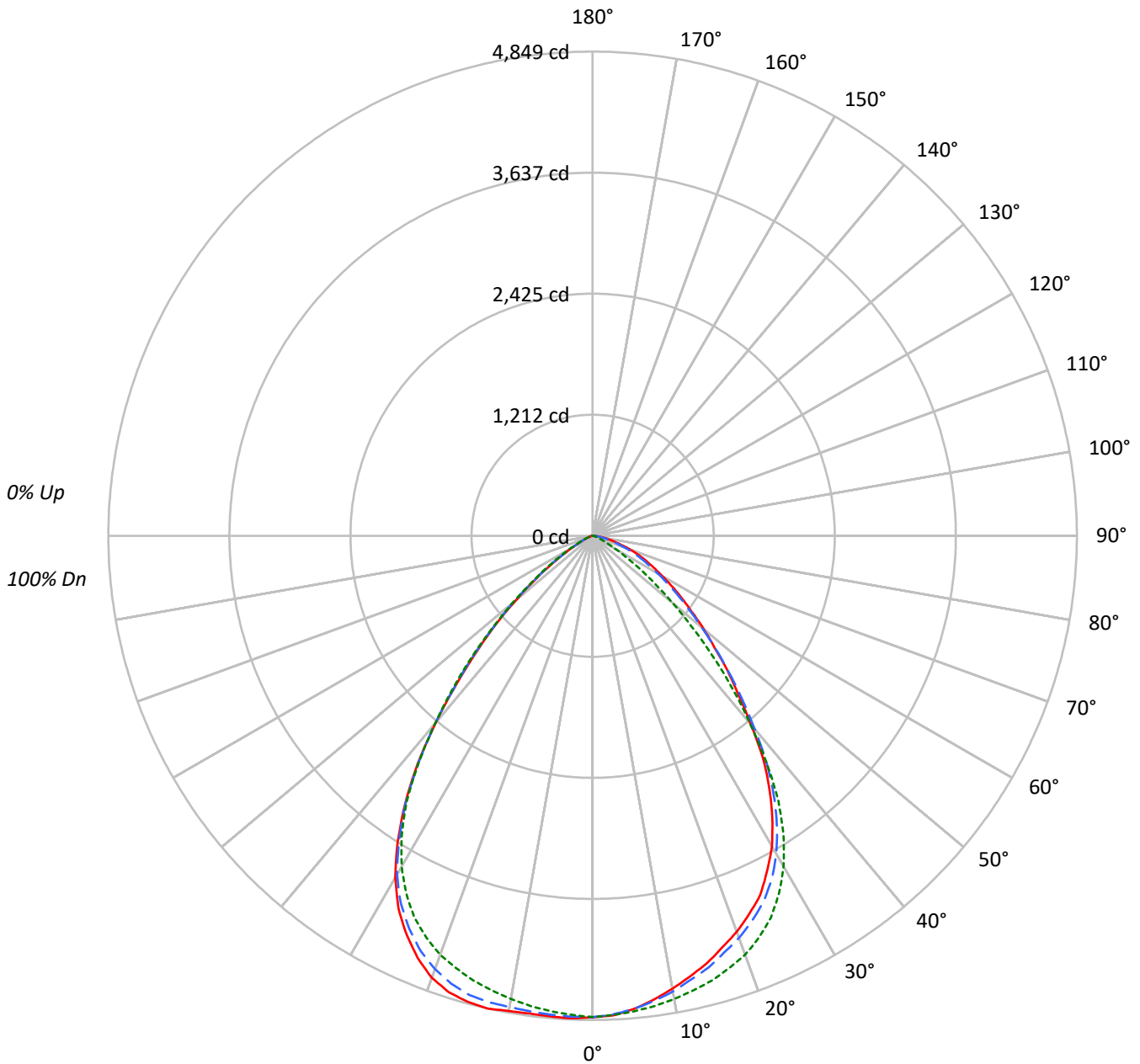
Lumens per Lamp: N/A
Luminaire Lumens: 8087.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72				72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64				64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58				58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52				52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47				47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43				43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40				40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	264255	264255	264255
5°	261737	263014	265903
10°	256341	262169	268977
15°	251437	261676	274235
20°	246223	260487	274756
25°	240159	255293	266562
30°	227383	242113	250222
35°	206491	217011	218959
40°	176237	175386	174556
45°	148031	131331	127277
50°	123638	88876	84407
55°	104054	54526	49528
60°	88085	28726	24888
65°	76273	15112	12064
70°	63440	9328	6524
75°	46873	6164	3707
80°	36779	3662	1863
85°	29311	3711	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.3	5.6
10°-20°	1300.8	16.1
20°-30°	1920.8	23.8
30°-40°	1979.5	24.5
40°-50°	1367.2	16.9
50°-60°	673.9	8.3
60°-70°	273.1	3.4
70°-80°	97.3	1.2
80°-90°	20.1	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°	3675.8	45.5
0°-40°	5655.3	69.9
0°-60°	7696.5	95.2
0°-90°	8087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8087.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4820	4820	4820	4820	4820	
5°	4756	4756	4780	4814	4832	449
15°	4430	4477	4611	4762	4832	1247
25°	3970	4046	4221	4343	4407	1815
35°	3086	3161	3243	3260	3272	1912
45°	1909	1921	1694	1671	1642	1476
55°	1089	1048	570	536	518	984
65°	588	530	116	93	93	584
75°	221	186	29	18	18	248
85°	47	35	6	0	0	57
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°	4820.4	4820.4	4820.4	4820.4	4820.4	4820.4	4820.4	4820.4	4820.4	4820.4	4820.4
2.5°	4808.6	4791.3	4802.9	4779.5	4808.6	4779.5	4785.4	4791.3	4785.4	4791.3	4797.0
5°	4756.3	4738.8	4756.3	4727.2	4756.3	4738.8	4738.8	4744.7	4744.7	4750.4	4756.3
7.5°	4686.5	4668.9	4686.5	4657.3	4692.1	4674.9	4674.9	4686.5	4680.5	4686.5	4698.1
10°	4605.0	4581.6	4599.1	4581.6	4616.6	4593.2	4605.0	4605.0	4605.0	4622.3	4634.1
12.5°	4517.7	4494.2	4517.7	4488.6	4523.4	4506.1	4511.8	4529.3	4535.0	4546.8	4552.5
15°	4430.3	4401.2	4412.8	4395.3	4430.3	4412.8	4418.7	4441.9	4441.9	4459.4	4476.9
17.5°	4319.8	4296.3	4319.8	4296.3	4325.5	4313.9	4325.5	4343.0	4343.0	4360.5	4377.8
20°	4220.6	4197.4	4214.9	4197.4	4232.4	4214.9	4220.6	4244.0	4249.7	4267.2	4284.7
22.5°	4098.4	4080.9	4092.5	4075.2	4110.0	4098.4	4104.3	4127.6	4133.5	4145.1	4174.2
25°	3970.4	3935.3	3952.9	3941.2	3976.3	3958.8	3970.4	3993.6	4005.4	4022.7	4046.1
27.5°	3784.1	3766.5	3778.2	3778.2	3807.3	3790.0	3795.7	3819.1	3836.4	3853.9	3883.0
30°	3592.1	3563.0	3574.6	3580.2	3603.7	3592.1	3603.7	3626.9	3632.8	3656.0	3679.2
32.5°	3347.5	3335.7	3359.1	3347.5	3359.1	3359.1	3364.8	3382.3	3393.9	3405.8	3434.9
35°	3085.5	3062.3	3085.5	3073.9	3103.0	3085.5	3103.0	3120.5	3120.5	3143.7	3161.2
37.5°	2800.2	2771.1	2782.7	2782.7	2794.3	2788.6	2788.6	2817.7	2823.4	2840.9	2858.5
40°	2462.7	2450.8	2474.3	2468.3	2474.3	2474.3	2479.9	2497.5	2509.1	2515.0	2520.9
42.5°	2159.9	2165.6	2171.5	2171.5	2171.5	2171.5	2171.5	2194.7	2189.0	2206.5	2212.2
45°	1909.4	1886.2	1897.8	1892.1	1909.4	1892.1	1909.4	1926.9	1915.3	1932.9	1921.0
47.5°	1653.3	1653.3	1653.3	1647.6	1659.2	1653.3	1664.9	1670.8	1670.8	1670.8	1664.9
50°	1449.7	1432.2	1437.9	1437.9	1443.8	1437.9	1449.7	1455.4	1455.4	1443.8	1420.6
52.5°	1251.6	1245.9	1245.9	1257.5	1257.5	1251.6	1251.6	1251.6	1251.6	1234.3	1222.5
55°	1088.7	1077.1	1082.8	1082.8	1082.8	1082.8	1088.7	1082.8	1082.8	1065.3	1048.0
57.5°	943.1	931.5	931.5	931.5	937.2	931.5	931.5	931.5	925.6	908.1	884.9
60°	803.4	797.5	803.4	803.4	809.1	803.4	803.4	803.4	791.8	774.3	750.9
62.5°	687.0	687.0	687.0	692.7	692.7	687.0	687.0	681.1	675.4	651.9	628.7
65°	588.0	582.1	588.0	588.0	593.7	593.7	588.0	582.1	576.4	553.0	529.8
67.5°	489.1	483.2	489.1	489.1	494.8	489.1	489.1	489.1	471.6	460.0	436.5
70°	395.8	390.1	390.1	390.1	395.8	384.2	390.1	390.1	378.5	361.0	337.6
72.5°	302.8	302.8	302.8	302.8	302.8	302.8	296.9	296.9	285.3	267.7	256.1
75°	221.3	221.3	227.0	227.0	221.3	221.3	221.3	215.4	209.5	197.9	186.3
77.5°	163.1	163.1	163.1	163.1	157.2	157.2	157.2	151.3	145.6	139.7	128.1
80°	116.5	116.5	116.5	110.6	116.5	110.6	110.6	110.6	99.0	93.0	87.3
82.5°	81.4	75.7	75.7	75.7	75.7	75.7	75.7	69.8	69.8	64.1	58.2
85°	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	40.7	35.0	35.0
87.5°	23.2	29.1	29.1	29.1	29.1	29.1	29.1	23.2	23.2	23.2	17.5
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°	4820.4	4820.4	4820.4	4820.4	4820.4	4820.4	4820.4	4820.4	4820.4	4820.4	4820.4
2.5°	4797.0	4797.0	4808.6	4791.3	4820.4	4802.9	4797.0	4826.1	4808.6	4802.9	4814.5
5°	4756.3	4762.2	4767.9	4756.3	4785.4	4767.9	4767.9	4797.0	4785.4	4779.5	4797.0
7.5°	4704.0	4709.7	4721.3	4715.6	4738.8	4727.2	4733.1	4762.2	4750.4	4750.4	4767.9
10°	4639.8	4651.4	4663.3	4663.3	4692.1	4680.5	4680.5	4715.6	4704.0	4709.7	4733.1
12.5°	4564.1	4581.6	4599.1	4605.0	4634.1	4616.6	4622.3	4663.3	4657.3	4663.3	4686.5
15°	4482.6	4506.1	4523.4	4523.4	4558.4	4540.9	4558.4	4599.1	4587.5	4610.7	4639.8
17.5°	4389.6	4412.8	4436.0	4441.9	4476.9	4465.1	4488.6	4529.3	4529.3	4540.9	4575.9
20°	4302.3	4331.4	4343.0	4360.5	4395.3	4389.6	4401.2	4447.8	4447.8	4465.1	4500.2
22.5°	4185.8	4214.9	4238.1	4255.6	4284.7	4284.7	4302.3	4343.0	4343.0	4354.6	4389.6
25°	4057.7	4092.5	4110.0	4127.6	4156.7	4150.8	4168.3	4203.3	4209.0	4220.6	4255.6
27.5°	3894.6	3923.7	3947.2	3958.8	3999.5	3976.3	3993.6	4034.5	4028.6	4040.2	4069.3
30°	3691.0	3720.1	3743.3	3743.3	3778.2	3778.2	3795.7	3813.2	3813.2	3824.8	3848.2
32.5°	3452.2	3487.2	3487.2	3504.7	3527.9	3504.7	3527.9	3551.1	3539.5	3557.0	3574.6
35°	3178.5	3196.0	3201.9	3201.9	3219.5	3213.6	3207.6	3225.2	3213.6	3242.7	3260.2
37.5°	2846.9	2870.1	2858.5	2870.1	2864.2	2846.9	2846.9	2876.0	2852.6	2858.5	2876.0
40°	2526.6	2526.6	2520.9	2491.8	2497.5	2479.9	2474.3	2479.9	2456.7	2450.8	2474.3
42.5°	2194.7	2189.0	2171.5	2130.8	2136.5	2107.3	2084.1	2084.1	2072.5	2066.6	2072.5
45°	1897.8	1880.3	1851.2	1804.8	1793.0	1769.8	1723.1	1711.5	1694.0	1694.0	1699.9
47.5°	1624.2	1601.0	1554.3	1502.0	1472.9	1443.8	1397.2	1379.6	1350.5	1338.9	1350.5
50°	1397.2	1356.4	1298.2	1222.5	1193.3	1158.5	1111.9	1082.8	1053.7	1042.1	1036.2
52.5°	1187.7	1129.4	1071.2	978.1	954.7	919.9	855.8	826.6	797.5	774.3	774.3
55°	1007.0	954.7	873.3	785.9	750.9	716.1	651.9	611.2	582.1	570.5	558.9
57.5°	844.2	785.9	710.2	617.1	582.1	547.3	483.2	442.4	413.3	395.8	384.2
60°	710.2	646.3	570.5	489.1	448.4	413.3	349.4	308.5	279.3	262.0	250.2
62.5°	582.1	529.8	454.0	378.5	343.5	308.5	256.1	215.4	186.3	174.7	157.2
65°	489.1	436.5	366.7	302.8	273.7	238.6	192.2	157.2	134.0	116.5	104.9
67.5°	395.8	355.1	296.9	238.6	209.5	186.3	145.6	116.5	93.0	81.4	75.7
70°	314.4	273.7	227.0	180.4	163.1	139.7	110.6	81.4	69.8	58.2	52.3
72.5°	232.9	203.8	168.8	134.0	116.5	104.9	75.7	64.1	46.6	40.7	35.0
75°	168.8	145.6	122.2	93.0	81.4	75.7	58.2	40.7	35.0	29.1	23.2
77.5°	116.5	104.9	81.4	64.1	58.2	52.3	40.7	29.1	23.2	17.5	17.5
80°	75.7	64.1	52.3	40.7	40.7	35.0	23.2	17.5	17.5	11.6	11.6
82.5°	46.6	40.7	35.0	29.1	23.2	23.2	17.5	11.6	11.6	5.9	5.9
85°	29.1	23.2	17.5	17.5	11.6	11.6	11.6	5.9	5.9	5.9	5.9
87.5°	11.6	11.6	11.6	5.9	5.9	5.9	5.9	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°	4820.4	4820.4	4820.4	4820.4	4820.4	4820.4	4820.4	4820.4	4820.4	4820.4	4820.4
2.5°	4814.5	4814.5	4826.1	4808.6	4820.4	4820.4	4832.0	4808.6	4820.4	4826.1	4837.7
5°	4791.3	4797.0	4808.6	4802.9	4808.6	4808.6	4820.4	4791.3	4814.5	4814.5	4832.0
7.5°	4767.9	4767.9	4779.5	4773.8	4785.4	4791.3	4802.9	4779.5	4802.9	4802.9	4820.4
10°	4738.8	4738.8	4756.3	4750.4	4767.9	4773.8	4791.3	4767.9	4791.3	4797.0	4814.5
12.5°	4698.1	4704.0	4721.3	4721.3	4738.8	4750.4	4767.9	4756.3	4785.4	4791.3	4814.5
15°	4651.4	4663.3	4686.5	4680.5	4698.1	4715.6	4738.8	4721.3	4762.2	4773.8	4797.0
17.5°	4593.2	4605.0	4622.3	4622.3	4639.8	4651.4	4680.5	4668.9	4704.0	4709.7	4738.8
20°	4506.1	4523.4	4546.8	4540.9	4558.4	4570.0	4593.2	4581.6	4616.6	4628.2	4657.3
22.5°	4401.2	4412.8	4430.3	4430.3	4447.8	4459.4	4482.6	4465.1	4500.2	4506.1	4529.3
25°	4261.5	4273.1	4284.7	4290.6	4307.9	4313.9	4325.5	4313.9	4343.0	4348.9	4377.8
27.5°	4080.9	4086.8	4104.3	4104.3	4115.9	4121.6	4139.2	4115.9	4156.7	4156.7	4174.2
30°	3865.5	3859.8	3883.0	3871.4	3883.0	3883.0	3900.5	3888.9	3918.0	3906.4	3923.7
32.5°	3580.2	3592.1	3592.1	3580.2	3603.7	3597.8	3597.8	3586.2	3603.7	3609.4	3621.0
35°	3248.6	3265.9	3265.9	3271.8	3277.7	3260.2	3265.9	3231.1	3260.2	3265.9	3271.8
37.5°	2887.6	2870.1	2881.7	2864.2	2893.3	2858.5	2858.5	2835.3	2858.5	2858.5	2864.2
40°	2474.3	2468.3	2479.9	2468.3	2462.7	2456.7	2445.1	2427.6	2450.8	2439.2	2456.7
42.5°	2084.1	2078.2	2078.2	2066.6	2060.9	2060.9	2049.3	2037.5	2031.8	2031.8	2060.9
45°	1682.4	1694.0	1682.4	1676.7	1688.3	1676.7	1682.4	1659.2	1670.8	1659.2	1670.8
47.5°	1344.8	1350.5	1338.9	1327.3	1344.8	1327.3	1327.3	1309.8	1333.2	1333.2	1321.4
50°	1042.1	1036.2	1024.6	1036.2	1030.5	1030.5	1030.5	1013.0	1024.6	1007.0	1018.9
52.5°	768.4	762.7	762.7	756.8	762.7	756.8	756.8	750.9	750.9	745.2	750.9
55°	558.9	553.0	541.4	541.4	541.4	547.3	541.4	535.7	535.7	529.8	535.7
57.5°	378.5	366.7	366.7	366.7	366.7	361.0	361.0	355.1	361.0	355.1	361.0
60°	244.5	244.5	232.9	232.9	232.9	232.9	232.9	227.0	232.9	232.9	232.9
62.5°	151.3	151.3	145.6	139.7	145.6	139.7	139.7	139.7	145.6	139.7	145.6
65°	99.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
67.5°	69.8	64.1	64.1	64.1	64.1	64.1	64.1	58.2	64.1	64.1	64.1
70°	46.6	46.6	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
72.5°	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
75°	23.2	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
77.5°	17.5	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
80°	11.6	11.6	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
82.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
85°	5.9	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	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
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: P684674

CATALOG NUMBER: LX6C80D010 EX6C809727 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4820.4	4820.4	4820.4	4820.4	4820.4	4820.4	4820.4	4820.4
2.5°	4820.4	4826.1	4814.5	4820.4	4808.6	4820.4	4826.1	4837.7
5°	4808.6	4814.5	4802.9	4814.5	4802.9	4814.5	4820.4	4832.0
7.5°	4797.0	4808.6	4797.0	4808.6	4797.0	4808.6	4814.5	4826.1
10°	4797.0	4814.5	4802.9	4820.4	4802.9	4814.5	4826.1	4832.0
12.5°	4797.0	4814.5	4808.6	4820.4	4814.5	4826.1	4837.7	4849.3
15°	4785.4	4802.9	4791.3	4808.6	4802.9	4808.6	4832.0	4832.0
17.5°	4721.3	4738.8	4738.8	4750.4	4750.4	4767.9	4779.5	4791.3
20°	4639.8	4657.3	4651.4	4668.9	4668.9	4686.5	4698.1	4709.7
22.5°	4517.7	4540.9	4535.0	4552.5	4546.8	4558.4	4581.6	4575.9
25°	4360.5	4389.6	4383.7	4395.3	4389.6	4389.6	4401.2	4406.9
27.5°	4168.3	4185.8	4179.9	4191.7	4179.9	4191.7	4203.3	4209.0
30°	3918.0	3929.6	3923.7	3929.6	3923.7	3935.3	3941.2	3952.9
32.5°	3615.3	3632.8	3615.3	3626.9	3621.0	3621.0	3644.4	3632.8
35°	3254.3	3260.2	3265.9	3265.9	3254.3	3260.2	3271.8	3271.8
37.5°	2852.6	2881.7	2846.9	2864.2	2858.5	2858.5	2858.5	2876.0
40°	2433.5	2439.2	2427.6	2427.6	2427.6	2421.7	2445.1	2439.2
42.5°	2037.5	2043.4	2037.5	2020.2	2025.9	2025.9	2043.4	2020.2
45°	1653.3	1664.9	1659.2	1659.2	1647.6	1647.6	1653.3	1641.7
47.5°	1309.8	1321.4	1304.1	1309.8	1298.2	1309.8	1304.1	1315.7
50°	995.4	1007.0	1001.3	1007.0	1007.0	995.4	1013.0	989.7
52.5°	745.2	750.9	745.2	739.3	733.6	733.6	745.2	739.3
55°	529.8	523.9	523.9	523.9	529.8	529.8	523.9	518.2
57.5°	355.1	355.1	349.4	349.4	355.1	343.5	349.4	343.5
60°	227.0	227.0	227.0	227.0	221.3	227.0	227.0	227.0
62.5°	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7
65°	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
67.5°	58.2	64.1	64.1	64.1	58.2	58.2	58.2	58.2
70°	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
72.5°	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
75°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
77.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
80°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
82.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	5.9	5.9	5.9	5.9	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)