

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: P249179

Luminaire Tested: **LD8B175D010 ER8B1759727 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B1759727 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12944.0 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

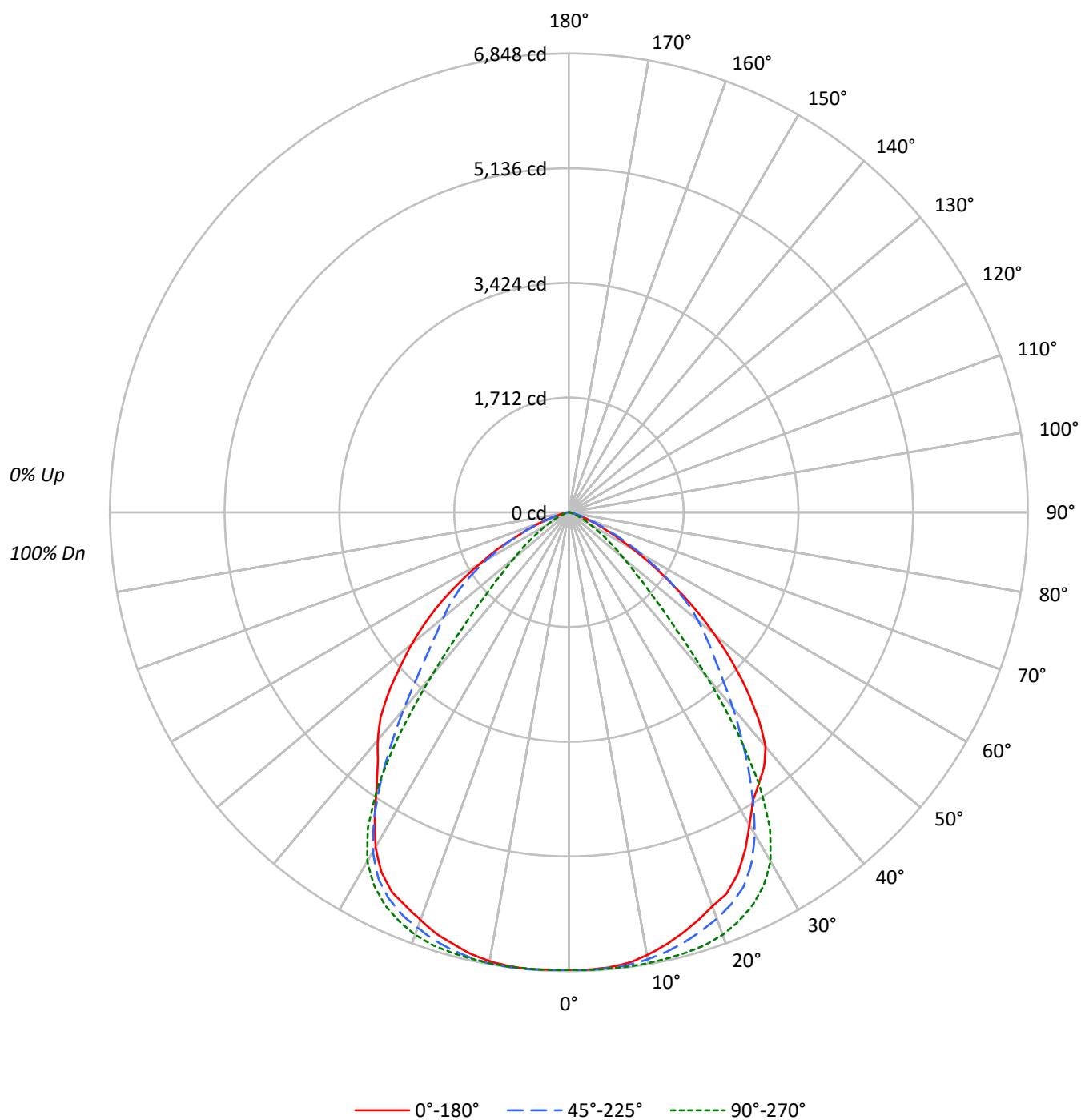
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	112	108	105	102	109	106	103	100	102	99	97		98	96	94		90
2	104	97	92	88	101	96	91	87	92	88	85		89	86	83		79
3	96	88	81	76	94	86	80	75	84	78	74		81	77	73		70
4	89	80	72	67	87	78	72	66	76	70	66		74	69	65		62
5	83	72	65	59	81	71	64	59	69	63	58		68	62	58		55
6	78	66	58	53	76	65	58	53	64	57	52		62	56	52		50
7	72	61	53	48	71	60	53	48	59	52	47		57	51	47		45
8	68	56	48	43	66	55	48	43	54	48	43		53	47	43		41
9	64	52	44	39	62	51	44	39	50	44	39		49	43	39		37
10	60	48	41	36	59	48	41	36	47	40	36		46	40	36		34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.8	5.0
10°-20°	1892.9	14.6
20°-30°	2873.0	22.2
30°-40°	3017.5	23.3
40°-50°	2262.3	17.5
50°-60°	1451.6	11.2
60°-70°	621.0	4.8
70°-80°	146.7	1.1
80°-90°	27.3	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°	5417.6	41.9
0°-40°	8435.2	65.2
0°-60°	12149.1	93.9
0°-90°	12944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12944.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6830	6830	6830	6830	6830	
5°	6818	6830	6837	6848	6844	648
15°	6510	6646	6800	6756	6672	1836
25°	5957	6166	6478	6360	6250	2721
35°	4942	4667	4945	4887	4997	3101
45°	3754	3068	1763	2980	3805	2875
55°	1899	1899	656	1980	2313	1722
65°	572	674	209	869	883	610
75°	88	103	29	176	172	128
85°	29	18	15	29	40	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6829.5	6829.5	6829.5	6829.5	6829.5	6829.5	6829.5	6829.5	6829.5	6829.5	6829.5
2.5°	6833.2	6840.5	6836.9	6836.9	6833.2	6836.9	6836.9	6844.2	6844.2	6836.9	6833.2
5°	6818.5	6825.8	6825.8	6818.5	6818.5	6836.9	6825.8	6833.2	6833.2	6829.5	6829.5
7.5°	6785.6	6785.6	6800.2	6789.2	6789.2	6800.2	6796.5	6803.9	6811.2	6814.9	6814.9
10°	6712.2	6719.5	6723.2	6723.2	6726.9	6737.8	6745.2	6759.9	6767.2	6774.5	6778.2
12.5°	6620.6	6631.5	6635.2	6631.5	6642.6	6657.2	6675.6	6693.9	6704.9	6719.5	6730.6
15°	6510.5	6510.5	6517.9	6528.9	6536.3	6558.3	6576.6	6598.5	6627.9	6646.3	6664.6
17.5°	6389.6	6397.0	6407.9	6407.9	6422.6	6459.2	6470.3	6503.3	6536.3	6554.6	6591.3
20°	6257.7	6265.0	6276.0	6283.3	6301.6	6331.0	6352.9	6382.3	6419.0	6452.0	6488.6
22.5°	6155.0	6140.4	6147.6	6155.0	6173.4	6199.0	6224.7	6261.3	6298.0	6331.0	6367.7
25°	5957.0	5960.7	5971.7	5979.0	6001.1	6023.0	6052.4	6096.3	6129.3	6166.0	6206.3
27.5°	5689.4	5693.1	5711.4	5711.4	5729.7	5766.4	5784.7	5821.4	5865.4	5902.0	5949.7
30°	5385.2	5392.5	5392.5	5407.2	5418.1	5436.5	5454.8	5491.5	5513.5	5546.5	5612.5
32.5°	5106.6	5113.9	5110.2	5106.6	5095.6	5091.9	5088.2	5095.6	5102.9	5113.9	5139.5
35°	4941.6	4923.2	4908.6	4883.0	4853.6	4817.0	4783.9	4740.0	4699.6	4666.6	4630.0
37.5°	4783.9	4780.3	4758.3	4721.6	4662.9	4597.0	4520.1	4424.7	4329.4	4226.7	4127.8
40°	4564.0	4553.0	4534.7	4483.4	4417.4	4336.7	4234.1	4116.8	3962.8	3805.2	3643.9
42.5°	4190.1	4193.7	4171.8	4131.4	4069.1	3992.1	3885.8	3757.5	3592.6	3405.6	3196.7
45°	3753.9	3753.9	3746.5	3713.5	3669.5	3607.2	3526.6	3420.3	3259.0	3068.3	2844.7
47.5°	3299.3	3302.9	3291.9	3284.6	3266.3	3226.0	3167.3	3086.7	2973.0	2789.7	2566.1
50°	2837.4	2837.4	2855.7	2852.0	2852.0	2837.4	2811.8	2764.0	2665.1	2518.4	2309.5
52.5°	2375.5	2382.8	2393.9	2408.5	2426.8	2456.1	2426.8	2404.8	2342.5	2228.8	2049.2
55°	1898.9	1906.3	1924.6	1950.2	1972.3	2001.6	2008.9	2008.9	1975.9	1898.9	1763.3
57.5°	1492.0	1481.0	1495.7	1517.7	1547.0	1576.3	1598.3	1624.0	1620.3	1569.0	1459.0
60°	1121.8	1125.4	1136.4	1158.4	1180.4	1206.1	1235.4	1257.4	1268.4	1242.8	1173.1
62.5°	817.5	817.5	832.1	854.1	865.1	901.8	920.1	931.2	942.1	938.4	894.5
65°	571.9	579.2	586.5	597.6	608.5	630.5	641.5	663.5	670.9	674.5	641.5
67.5°	403.3	392.2	399.6	406.9	417.9	432.6	454.6	454.6	465.5	465.5	443.6
70°	256.6	256.6	260.3	271.2	278.6	282.3	289.6	296.9	307.9	304.3	304.3
72.5°	172.3	168.6	172.3	176.0	179.7	190.6	190.6	194.3	201.6	205.3	190.6
75°	88.0	91.7	98.9	95.3	106.3	98.9	102.6	113.6	110.0	102.6	102.6
77.5°	73.3	73.3	73.3	69.7	77.0	77.0	73.3	80.6	77.0	77.0	73.3
80°	51.3	55.0	51.3	47.6	51.3	47.6	47.6	47.6	47.6	47.6	44.0
82.5°	40.4	33.0	36.7	33.0	36.7	36.7	33.0	29.3	29.3	33.0	29.3
85°	29.3	22.0	25.7	25.7	22.0	22.0	22.0	22.0	22.0	18.3	18.3
87.5°	18.3	11.0	11.0	11.0	14.6	14.6	14.6	11.0	14.6	14.6	7.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6829.5	6829.5	6829.5	6829.5	6829.5	6829.5	6829.5	6829.5	6829.5	6829.5	6829.5
2.5°	6840.5	6836.9	6844.2	6840.5	6840.5	6836.9	6840.5	6836.9	6844.2	6829.5	6833.2
5°	6840.5	6833.2	6836.9	6840.5	6844.2	6836.9	6836.9	6836.9	6844.2	6836.9	6840.5
7.5°	6825.8	6822.2	6833.2	6840.5	6836.9	6833.2	6840.5	6836.9	6844.2	6840.5	6847.8
10°	6796.5	6800.2	6807.5	6818.5	6822.2	6825.8	6833.2	6833.2	6844.2	6829.5	6836.9
12.5°	6752.5	6767.2	6785.6	6792.8	6807.5	6807.5	6814.9	6818.5	6825.8	6822.2	6833.2
15°	6697.6	6715.9	6737.8	6756.2	6774.5	6785.6	6796.5	6800.2	6811.2	6800.2	6803.9
17.5°	6631.5	6653.5	6686.5	6708.5	6737.8	6748.9	6763.5	6770.8	6781.9	6774.5	6778.2
20°	6539.9	6565.6	6602.2	6635.2	6653.5	6679.2	6697.6	6708.5	6715.9	6708.5	6712.2
22.5°	6411.6	6448.3	6495.9	6521.6	6558.3	6580.2	6583.9	6609.6	6627.9	6609.6	6616.9
25°	6261.3	6298.0	6334.6	6389.6	6422.6	6448.3	6473.9	6477.6	6495.9	6492.2	6488.6
27.5°	6012.0	6059.7	6122.0	6166.0	6210.0	6250.3	6279.7	6286.9	6305.3	6298.0	6301.6
30°	5671.1	5722.5	5781.1	5850.7	5913.1	5953.3	5990.0	6015.7	6034.0	6023.0	6019.4
32.5°	5187.2	5238.5	5300.9	5370.5	5443.9	5502.4	5546.5	5579.5	5601.5	5594.1	5575.8
35°	4633.7	4648.3	4688.7	4743.7	4805.9	4868.3	4908.6	4945.2	4970.9	4978.2	4978.2
37.5°	4065.5	4017.8	3988.5	3988.5	4025.1	4050.8	4087.4	4109.4	4149.8	4164.4	4175.4
40°	3515.5	3405.6	3302.9	3226.0	3174.7	3171.0	3171.0	3181.9	3218.6	3266.3	3310.3
42.5°	3024.3	2848.4	2690.8	2547.8	2445.2	2386.5	2360.8	2364.5	2393.9	2437.8	2511.1
45°	2632.1	2412.2	2214.2	2041.9	1902.6	1810.9	1767.0	1763.3	1785.3	1836.6	1917.3
47.5°	2327.8	2093.2	1869.6	1671.6	1521.4	1422.3	1371.0	1356.4	1371.0	1418.7	1514.0
50°	2074.9	1833.0	1602.0	1396.7	1235.4	1132.8	1085.1	1066.8	1085.1	1125.4	1220.7
52.5°	1840.2	1591.0	1374.7	1176.7	1004.4	916.4	865.1	854.1	865.1	912.8	989.8
55°	1569.0	1356.4	1143.7	945.8	795.5	707.5	667.2	656.2	667.2	711.2	791.9
57.5°	1301.4	1118.1	931.2	751.5	623.2	546.2	509.6	494.9	520.5	549.8	645.2
60°	1052.1	905.5	747.8	590.2	483.9	414.2	384.9	381.2	388.6	425.3	491.2
62.5°	824.9	703.9	579.2	450.9	362.9	333.6	296.9	293.3	300.6	322.6	373.9
65°	593.9	516.9	421.6	329.9	260.3	219.9	205.3	209.0	216.3	231.0	278.6
67.5°	414.2	359.2	293.3	231.0	179.7	161.3	146.7	143.0	146.7	172.3	198.0
70°	278.6	245.6	198.0	176.0	124.7	98.9	102.6	91.7	106.3	106.3	128.3
72.5°	183.3	161.3	131.9	102.6	88.0	69.7	69.7	66.0	73.3	77.0	95.3
75°	95.3	73.3	73.3	51.3	36.7	18.3	33.0	29.3	25.7	29.3	36.7
77.5°	66.0	55.0	51.3	40.4	36.7	29.3	29.3	29.3	29.3	33.0	36.7
80°	40.4	40.4	29.3	25.7	22.0	18.3	22.0	22.0	22.0	22.0	25.7
82.5°	25.7	22.0	22.0	18.3	18.3	14.6	14.6	14.6	14.6	14.6	22.0
85°	22.0	14.6	14.6	11.0	14.6	25.7	11.0	14.6	14.6	14.6	11.0
87.5°	7.4	11.0	11.0	11.0	7.4	3.7	7.4	11.0	11.0	18.3	14.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6829.5	6829.5	6829.5	6829.5	6829.5	6829.5	6829.5	6829.5	6829.5	6829.5	6829.5
2.5°	6840.5	6844.2	6844.2	6840.5	6840.5	6833.2	6847.8	6836.9	6840.5	6855.2	6844.2
5°	6847.8	6851.5	6851.5	6847.8	6847.8	6847.8	6851.5	6851.5	6847.8	6844.2	6851.5
7.5°	6862.5	6858.8	6858.8	6851.5	6851.5	6844.2	6851.5	6840.5	6847.8	6840.5	6851.5
10°	6844.2	6847.8	6844.2	6840.5	6840.5	6836.9	6836.9	6825.8	6829.5	6818.5	6825.8
12.5°	6833.2	6829.5	6829.5	6822.2	6814.9	6807.5	6803.9	6792.8	6792.8	6767.2	6778.2
15°	6803.9	6807.5	6796.5	6781.9	6774.5	6756.2	6748.9	6734.2	6719.5	6701.2	6704.9
17.5°	6778.2	6767.2	6752.5	6737.8	6708.5	6693.9	6679.2	6657.2	6649.8	6627.9	6620.6
20°	6701.2	6693.9	6675.6	6649.8	6631.5	6598.5	6583.9	6561.9	6543.6	6521.6	6510.5
22.5°	6602.2	6594.9	6572.9	6547.2	6517.9	6503.3	6488.6	6448.3	6429.9	6407.9	6404.3
25°	6477.6	6466.6	6444.6	6415.3	6400.6	6360.3	6345.6	6316.3	6309.0	6286.9	6283.3
27.5°	6286.9	6272.3	6246.7	6210.0	6184.3	6158.7	6144.0	6122.0	6114.7	6092.6	6089.1
30°	6001.1	5982.7	5931.4	5916.7	5872.7	5847.0	5847.0	5817.7	5821.4	5806.8	5806.8
32.5°	5550.1	5520.8	5480.5	5451.1	5421.8	5407.2	5407.2	5396.1	5403.5	5403.5	5410.8
35°	4952.6	4912.3	4890.2	4871.9	4871.9	4886.6	4930.6	4941.6	4963.6	4981.9	4996.6
37.5°	4186.4	4182.8	4208.4	4230.4	4285.4	4347.7	4424.7	4490.7	4553.0	4597.0	4641.0
40°	3357.9	3449.6	3522.9	3625.6	3709.8	3830.8	3970.1	4083.8	4190.1	4267.1	4347.7
42.5°	2621.1	2738.4	2892.4	3042.6	3193.0	3357.9	3541.3	3698.9	3838.2	3944.5	4028.8
45°	2041.9	2203.2	2390.2	2580.8	2775.1	2980.4	3171.0	3332.3	3478.9	3588.9	3673.2
47.5°	1646.0	1821.9	2034.5	2243.5	2463.5	2679.7	2892.4	3031.7	3152.6	3240.6	3317.7
50°	1360.0	1547.0	1770.6	2008.9	2228.8	2445.2	2628.4	2764.0	2863.1	2940.0	2987.7
52.5°	1136.4	1334.3	1572.7	1810.9	2030.9	2228.8	2393.9	2496.5	2577.1	2632.1	2676.0
55°	938.4	1129.1	1352.7	1576.3	1792.6	1979.5	2115.2	2192.2	2254.5	2287.5	2313.1
57.5°	766.2	942.1	1147.4	1352.7	1539.7	1693.7	1800.0	1876.9	1906.3	1931.9	1928.2
60°	601.2	766.2	953.1	1129.1	1290.4	1415.0	1492.0	1536.0	1558.0	1569.0	1561.6
62.5°	472.9	623.2	766.2	920.1	1037.4	1143.7	1217.1	1217.1	1228.1	1231.7	1242.8
65°	351.9	465.5	590.2	703.9	799.1	868.8	909.2	920.1	934.8	931.2	923.8
67.5°	260.3	344.6	436.2	520.5	586.5	630.5	659.8	685.6	681.9	674.5	670.9
70°	179.7	234.6	315.3	366.6	414.2	458.3	465.5	469.2	472.9	476.6	469.2
72.5°	124.7	165.0	209.0	252.9	282.3	300.6	319.0	322.6	322.6	322.6	319.0
75°	62.3	84.3	124.7	143.0	168.6	176.0	190.6	190.6	201.6	186.9	183.3
77.5°	55.0	66.0	88.0	102.6	113.6	124.7	128.3	139.3	135.6	128.3	131.9
80°	33.0	40.4	55.0	62.3	77.0	80.6	84.3	88.0	84.3	88.0	88.0
82.5°	25.7	29.3	36.7	36.7	47.6	47.6	51.3	51.3	55.0	55.0	55.0
85°	14.6	25.7	22.0	44.0	29.3	29.3	36.7	44.0	36.7	36.7	44.0
87.5°	14.6	14.6	11.0	14.6	14.6	14.6	18.3	22.0	22.0	25.7	22.0
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: P249179

CATALOG NUMBER: LD8B175D010 ER8B1759727 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6829.5	6829.5	6829.5	6829.5
2.5°	6840.5	6847.8	6836.9	6833.2
5°	6851.5	6851.5	6844.2	6844.2
7.5°	6851.5	6851.5	6840.5	6833.2
10°	6822.2	6822.2	6811.2	6803.9
12.5°	6767.2	6767.2	6763.5	6752.5
15°	6697.6	6697.6	6682.9	6671.9
17.5°	6602.2	6609.6	6591.3	6591.3
20°	6499.6	6495.9	6481.3	6473.9
22.5°	6393.3	6386.0	6382.3	6360.3
25°	6279.7	6272.3	6261.3	6250.3
27.5°	6085.4	6081.7	6070.7	6056.0
30°	5788.4	5784.7	5770.1	5770.1
32.5°	5403.5	5399.8	5385.2	5388.9
35°	5003.9	5018.6	5011.2	4996.6
37.5°	4670.3	4681.3	4688.7	4681.3
40°	4391.7	4424.7	4428.4	4435.7
42.5°	4094.8	4138.8	4153.5	4160.7
45°	3739.1	3779.5	3812.5	3805.2
47.5°	3376.2	3405.6	3434.9	3412.9
50°	3028.0	3046.3	3057.4	3057.4
52.5°	2698.1	2698.1	2694.4	2698.1
55°	2320.5	2320.5	2305.9	2313.1
57.5°	1924.6	1931.9	1920.9	1902.6
60°	1558.0	1539.7	1532.3	1521.4
62.5°	1213.4	1213.4	1187.8	1220.7
65°	909.2	898.1	887.1	883.4
67.5°	659.8	656.2	645.2	641.5
70°	465.5	450.9	447.2	439.9
72.5°	311.6	311.6	304.3	304.3
75°	190.6	172.3	168.6	172.3
77.5°	131.9	128.3	128.3	124.7
80°	88.0	84.3	91.7	80.6
82.5°	55.0	58.7	55.0	58.7
85°	36.7	44.0	40.4	40.4
87.5°	22.0	22.0	22.0	22.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)