

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: P249368

Luminaire Tested: **LD8B175D010 ER8B175935 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249368
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 ER8B175935 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15497.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

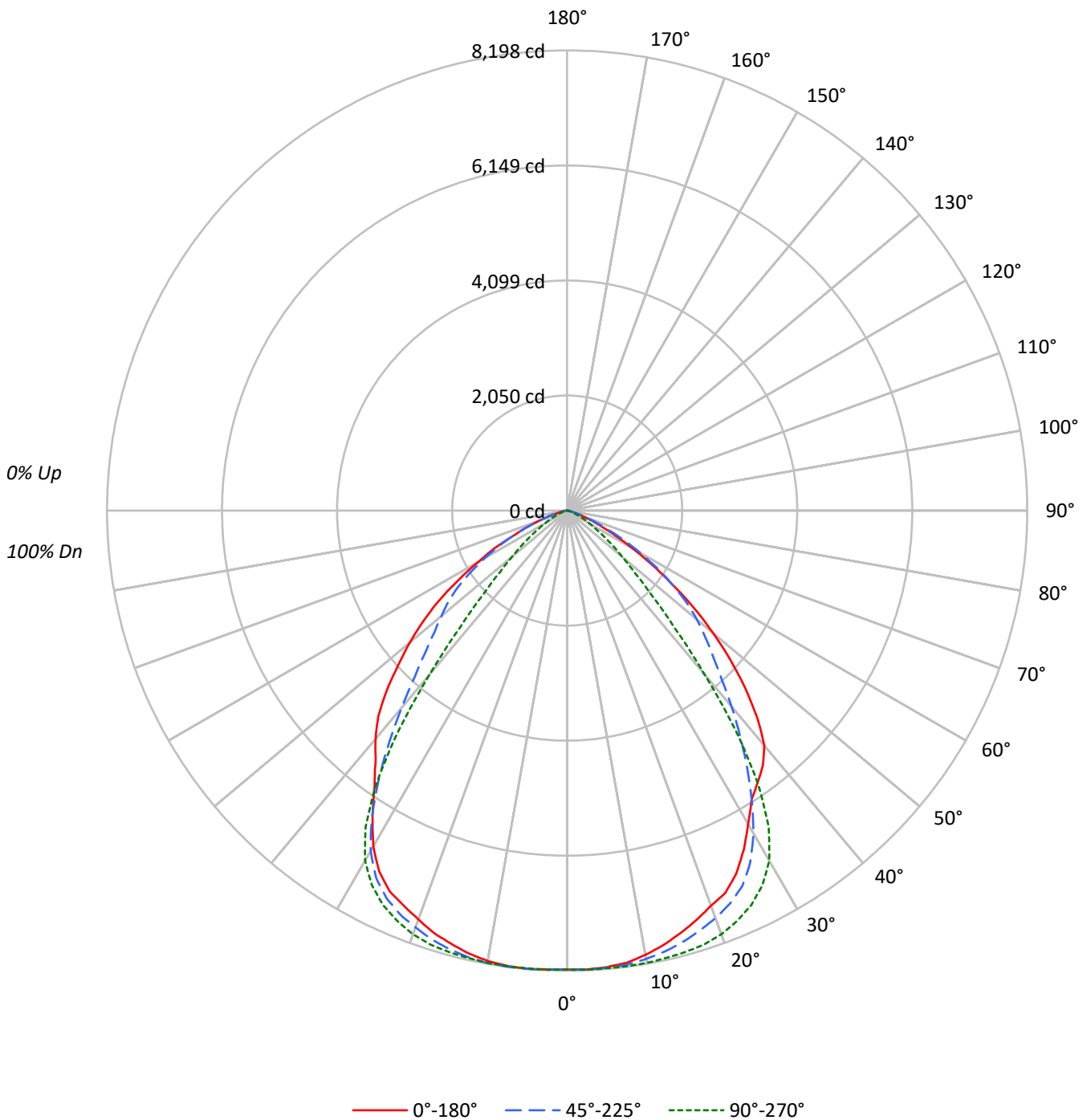
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10					0
RW	70	50	30	10	70	50	30	10	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	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	252133	252133	252133
5°	252688	253369	253641
10°	251626	256160	255061
15°	248836	259907	255003
20°	245849	263563	254345
25°	242657	263864	254606
30°	229567	256447	245975
35°	222714	222876	225191
40°	219956	153347	213773
45°	195988	92063	198670
50°	162964	61271	175600
55°	122221	42240	148887
60°	82826	28147	112331
65°	49959	18256	77175
70°	27697	9899	47478
75°	12546	4182	24579
80°	10903	4670	17136
85°	12419	6192	17089



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	780.3	5.0
10°-20°	2266.2	14.6
20°-30°	3439.7	22.2
30°-40°	3612.7	23.3
40°-50°	2708.5	17.5
50°-60°	1737.9	11.2
60°-70°	743.4	4.8
70°-80°	175.6	1.1
80°-90°	32.7	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°	6486.2	41.9
0°-40°	10098.9	65.2
0°-60°	14545.3	93.9
0°-90°	15497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15497.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8176	8176	8176	8176	8176	
5°	8163	8176	8185	8198	8194	775
15°	7795	7957	8141	8089	7988	2199
25°	7132	7382	7755	7615	7483	3258
35°	5916	5587	5921	5850	5982	3713
45°	4494	3674	2111	3568	4556	3442
55°	2273	2273	786	2370	2769	2062
65°	685	808	250	1040	1058	731
75°	105	123	35	211	206	153
85°	35	22	18	35	48	37
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°	8176.5	8176.5	8176.5	8176.5	8176.5	8176.5	8176.5	8176.5	8176.5	8176.5	8176.5
2.5°	8180.9	8189.7	8185.3	8185.3	8180.9	8185.3	8185.3	8194.1	8194.1	8185.3	8180.9
5°	8163.3	8172.1	8172.1	8163.3	8163.3	8185.3	8172.1	8180.9	8180.9	8176.5	8176.5
7.5°	8123.9	8123.9	8141.4	8128.3	8128.3	8141.4	8137.0	8145.8	8154.6	8159.0	8159.0
10°	8036.1	8044.9	8049.3	8049.3	8053.7	8066.8	8075.6	8093.2	8101.9	8110.7	8115.1
12.5°	7926.4	7939.5	7943.9	7939.5	7952.7	7970.2	7992.2	8014.1	8027.4	8044.9	8058.1
15°	7794.6	7794.6	7803.5	7816.7	7825.5	7851.8	7873.7	7900.0	7935.1	7957.1	7979.0
17.5°	7649.9	7658.7	7671.8	7671.8	7689.4	7733.2	7746.4	7785.9	7825.5	7847.4	7891.3
20°	7491.9	7500.6	7513.8	7522.6	7544.5	7579.7	7606.0	7641.1	7685.0	7724.5	7768.3
22.5°	7369.0	7351.4	7360.1	7369.0	7391.0	7421.7	7452.4	7496.2	7540.1	7579.7	7623.6
25°	7131.9	7136.3	7149.6	7158.3	7184.7	7211.0	7246.1	7298.7	7338.2	7382.2	7430.4
27.5°	6811.6	6816.0	6837.9	6837.9	6859.8	6903.7	6925.7	6969.6	7022.3	7066.1	7123.2
30°	6447.3	6456.0	6456.0	6473.6	6486.8	6508.8	6530.7	6574.6	6600.9	6640.4	6719.5
32.5°	6113.8	6122.5	6118.1	6113.8	6100.6	6096.2	6091.8	6100.6	6109.4	6122.5	6153.2
35°	5916.3	5894.3	5876.8	5846.1	5810.9	5767.0	5727.5	5674.9	5626.6	5587.0	5543.2
37.5°	5727.5	5723.1	5696.8	5652.9	5582.6	5503.7	5411.6	5297.4	5183.3	5060.4	4942.0
40°	5464.2	5451.0	5429.1	5367.6	5288.6	5192.1	5069.2	4928.7	4744.4	4555.7	4362.6
42.5°	5016.5	5020.9	4994.6	4946.3	4871.7	4779.5	4652.2	4498.6	4301.2	4077.3	3827.1
45°	4494.2	4494.2	4485.4	4445.9	4393.3	4318.7	4222.1	4094.9	3901.8	3673.5	3405.7
47.5°	3950.0	3954.4	3941.2	3932.5	3910.5	3862.3	3792.0	3695.5	3559.4	3339.9	3072.2
50°	3397.0	3397.0	3419.0	3414.6	3414.6	3397.0	3366.3	3309.2	3190.8	3015.2	2765.1
52.5°	2844.0	2852.8	2866.0	2883.5	2905.4	2940.5	2905.4	2879.1	2804.5	2668.4	2453.4
55°	2273.4	2282.2	2304.1	2334.9	2361.3	2396.4	2405.1	2405.1	2365.6	2273.4	2111.1
57.5°	1786.3	1773.1	1790.7	1817.0	1852.1	1887.3	1913.6	1944.3	1939.9	1878.5	1746.8
60°	1343.0	1347.4	1360.5	1386.9	1413.2	1444.0	1479.1	1505.4	1518.6	1487.9	1404.4
62.5°	978.7	978.7	996.3	1022.6	1035.8	1079.7	1101.6	1114.8	1127.9	1123.5	1070.9
65°	684.7	693.4	702.2	715.4	728.5	754.8	768.0	794.4	803.2	807.6	768.0
67.5°	482.8	469.6	478.4	487.1	500.3	517.9	544.2	544.2	557.4	557.4	531.0
70°	307.2	307.2	311.6	324.7	333.6	338.0	346.8	355.5	368.7	364.3	364.3
72.5°	206.3	201.9	206.3	210.7	215.1	228.2	228.2	232.6	241.4	245.8	228.2
75°	105.3	109.8	118.5	114.2	127.3	118.5	122.9	136.1	131.7	122.9	122.9
77.5°	87.7	87.7	87.7	83.4	92.1	92.1	87.7	96.5	92.1	92.1	87.7
80°	61.4	65.8	61.4	57.0	61.4	57.0	57.0	57.0	57.0	57.0	52.6
82.5°	48.3	39.5	43.9	39.5	43.9	43.9	39.5	35.1	35.1	39.5	35.1
85°	35.1	26.3	30.7	30.7	26.3	26.3	26.3	26.3	26.3	21.9	21.9
87.5°	21.9	13.2	13.2	13.2	17.5	17.5	17.5	13.2	17.5	17.5	8.8
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°	8176.5	8176.5	8176.5	8176.5	8176.5	8176.5	8176.5	8176.5	8176.5	8176.5	8176.5
2.5°	8189.7	8185.3	8194.1	8189.7	8189.7	8185.3	8189.7	8185.3	8194.1	8176.5	8180.9
5°	8189.7	8180.9	8185.3	8189.7	8194.1	8185.3	8185.3	8185.3	8194.1	8185.3	8189.7
7.5°	8172.1	8167.7	8180.9	8189.7	8185.3	8180.9	8189.7	8185.3	8194.1	8189.7	8198.4
10°	8137.0	8141.4	8150.2	8163.3	8167.7	8172.1	8180.9	8180.9	8194.1	8176.5	8185.3
12.5°	8084.4	8101.9	8123.9	8132.6	8150.2	8150.2	8159.0	8163.3	8172.1	8167.7	8180.9
15°	8018.6	8040.5	8066.8	8088.8	8110.7	8123.9	8137.0	8141.4	8154.6	8141.4	8145.8
17.5°	7939.5	7965.8	8005.3	8031.7	8066.8	8080.0	8097.5	8106.3	8119.5	8110.7	8115.1
20°	7829.8	7860.6	7904.4	7943.9	7965.8	7996.5	8018.6	8031.7	8040.5	8031.7	8036.1
22.5°	7676.2	7720.1	7777.1	7807.9	7851.8	7878.1	7882.5	7913.2	7935.1	7913.2	7922.0
25°	7496.2	7540.1	7584.1	7649.9	7689.4	7720.1	7750.8	7755.2	7777.1	7772.7	7768.3
27.5°	7197.8	7254.9	7329.4	7382.2	7434.8	7483.1	7518.2	7526.9	7548.9	7540.1	7544.5
30°	6789.6	6851.1	6921.4	7004.7	7079.3	7127.5	7171.5	7202.2	7224.1	7211.0	7206.6
32.5°	6210.3	6271.8	6346.4	6429.7	6517.6	6587.7	6640.4	6679.9	6706.3	6697.4	6675.5
35°	5547.6	5565.1	5613.5	5679.3	5753.8	5828.5	5876.8	5920.6	5951.3	5960.1	5960.1
37.5°	4867.3	4810.3	4775.2	4775.2	4819.0	4849.7	4893.6	4919.9	4968.3	4985.8	4999.0
40°	4208.9	4077.3	3954.4	3862.3	3800.8	3796.4	3796.4	3809.5	3853.5	3910.5	3963.2
42.5°	3620.8	3410.2	3221.5	3050.3	2927.4	2857.2	2826.5	2830.9	2866.0	2918.6	3006.4
45°	3151.2	2887.9	2650.9	2444.6	2277.8	2168.1	2115.5	2111.1	2137.4	2198.8	2295.4
47.5°	2787.0	2506.0	2238.3	2001.3	1821.4	1702.9	1641.4	1623.9	1641.4	1698.5	1812.6
50°	2484.1	2194.5	1918.0	1672.2	1479.1	1356.2	1299.1	1277.2	1299.1	1347.4	1461.5
52.5°	2203.2	1904.8	1645.8	1408.8	1202.5	1097.2	1035.8	1022.6	1035.8	1092.8	1185.0
55°	1878.5	1623.9	1369.3	1132.3	952.4	847.1	798.8	785.7	798.8	851.5	948.0
57.5°	1558.1	1338.6	1114.8	899.7	746.1	653.9	610.1	592.5	623.2	658.3	772.5
60°	1259.6	1084.1	895.3	706.6	579.4	495.9	460.8	456.4	465.2	509.1	588.1
62.5°	987.6	842.7	693.4	539.8	434.5	399.4	355.5	351.2	359.9	386.2	447.7
65°	711.0	618.9	504.7	395.0	311.6	263.3	245.8	250.2	258.9	276.5	333.6
67.5°	495.9	430.1	351.2	276.5	215.1	193.1	175.6	171.2	175.6	206.3	237.0
70°	333.6	294.0	237.0	210.7	149.3	118.5	122.9	109.8	127.3	127.3	153.6
72.5°	219.4	193.1	158.0	122.9	105.3	83.4	83.4	79.0	87.7	92.1	114.2
75°	114.2	87.7	87.7	61.4	43.9	21.9	39.5	35.1	30.7	35.1	43.9
77.5°	79.0	65.8	61.4	48.3	43.9	35.1	35.1	35.1	35.1	39.5	43.9
80°	48.3	48.3	35.1	30.7	26.3	21.9	26.3	26.3	26.3	26.3	30.7
82.5°	30.7	26.3	26.3	21.9	21.9	17.5	17.5	17.5	17.5	17.5	26.3
85°	26.3	17.5	17.5	13.2	17.5	30.7	13.2	17.5	17.5	17.5	13.2
87.5°	8.8	13.2	13.2	13.2	8.8	4.4	8.8	13.2	13.2	21.9	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8176.5	8176.5	8176.5	8176.5	8176.5	8176.5	8176.5	8176.5	8176.5	8176.5	8176.5
2.5°	8189.7	8194.1	8194.1	8189.7	8189.7	8180.9	8198.4	8185.3	8189.7	8207.2	8194.1
5°	8198.4	8202.8	8202.8	8198.4	8198.4	8198.4	8202.8	8202.8	8198.4	8194.1	8202.8
7.5°	8216.0	8211.6	8211.6	8202.8	8202.8	8194.1	8202.8	8189.7	8198.4	8189.7	8202.8
10°	8194.1	8198.4	8194.1	8189.7	8189.7	8185.3	8185.3	8172.1	8176.5	8163.3	8172.1
12.5°	8180.9	8176.5	8176.5	8167.7	8159.0	8150.2	8145.8	8132.6	8132.6	8101.9	8115.1
15°	8145.8	8150.2	8137.0	8119.5	8110.7	8088.8	8080.0	8062.4	8044.9	8023.0	8027.4
17.5°	8115.1	8101.9	8084.4	8066.8	8031.7	8014.1	7996.5	7970.2	7961.4	7935.1	7926.4
20°	8023.0	8014.1	7992.2	7961.4	7939.5	7900.0	7882.5	7856.2	7834.2	7807.9	7794.6
22.5°	7904.4	7895.6	7869.3	7838.6	7803.5	7785.9	7768.3	7720.1	7698.1	7671.8	7667.4
25°	7755.2	7742.0	7715.7	7680.6	7663.0	7614.8	7597.2	7562.0	7553.3	7526.9	7522.6
27.5°	7526.9	7509.4	7478.7	7434.8	7404.1	7373.4	7355.8	7329.4	7320.7	7294.3	7290.0
30°	7184.7	7162.7	7101.2	7083.7	7031.0	7000.3	7000.3	6965.2	6969.6	6952.1	6952.1
32.5°	6644.8	6609.7	6561.4	6526.3	6491.2	6473.6	6473.6	6460.4	6469.2	6469.2	6478.0
35°	5929.4	5881.2	5854.8	5832.9	5832.9	5850.4	5903.1	5916.3	5942.6	5964.5	5982.1
37.5°	5012.1	5007.8	5038.5	5064.8	5130.6	5205.3	5297.4	5376.4	5451.0	5503.7	5556.3
40°	4020.2	4130.0	4217.7	4340.7	4441.5	4586.4	4753.2	4889.2	5016.5	5108.7	5205.3
42.5°	3138.0	3278.5	3462.9	3642.8	3822.7	4020.2	4239.7	4428.4	4595.2	4722.4	4823.4
45°	2444.6	2637.7	2861.6	3089.8	3322.4	3568.2	3796.4	3989.5	4165.1	4296.8	4397.7
47.5°	1970.6	2181.3	2435.8	2686.0	2949.3	3208.3	3462.9	3629.7	3774.4	3879.8	3972.0
50°	1628.2	1852.1	2119.9	2405.1	2668.4	2927.4	3146.8	3309.2	3427.8	3519.9	3576.9
52.5°	1360.5	1597.5	1882.9	2168.1	2431.4	2668.4	2866.0	2988.9	3085.4	3151.2	3203.9
55°	1123.5	1351.8	1619.5	1887.3	2146.2	2370.0	2532.4	2624.6	2699.1	2738.6	2769.4
57.5°	917.3	1127.9	1373.7	1619.5	1843.3	2027.7	2155.0	2247.1	2282.2	2313.0	2308.6
60°	719.8	917.3	1141.1	1351.8	1544.9	1694.1	1786.3	1838.9	1865.2	1878.5	1869.7
62.5°	566.2	746.1	917.3	1101.6	1242.1	1369.3	1457.2	1457.2	1470.3	1474.7	1487.9
65°	421.3	557.4	706.6	842.7	956.7	1040.2	1088.5	1101.6	1119.2	1114.8	1106.0
67.5°	311.6	412.6	522.2	623.2	702.2	754.8	790.0	820.8	816.4	807.6	803.2
70°	215.1	280.9	377.5	438.9	495.9	548.7	557.4	561.8	566.2	570.6	561.8
72.5°	149.3	197.5	250.2	302.8	338.0	359.9	381.9	386.2	386.2	386.2	381.9
75°	74.6	100.9	149.3	171.2	201.9	210.7	228.2	228.2	241.4	223.8	219.4
77.5°	65.8	79.0	105.3	122.9	136.1	149.3	153.6	166.8	162.4	153.6	158.0
80°	39.5	48.3	65.8	74.6	92.1	96.5	100.9	105.3	100.9	105.3	105.3
82.5°	30.7	35.1	43.9	43.9	57.0	57.0	61.4	61.4	65.8	65.8	65.8
85°	17.5	30.7	26.3	52.6	35.1	35.1	43.9	52.6	43.9	43.9	52.6
87.5°	17.5	17.5	13.2	17.5	17.5	17.5	21.9	26.3	26.3	30.7	26.3
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: P249368

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8176.5	8176.5	8176.5	8176.5
2.5°	8189.7	8198.4	8185.3	8180.9
5°	8202.8	8202.8	8194.1	8194.1
7.5°	8202.8	8202.8	8189.7	8180.9
10°	8167.7	8167.7	8154.6	8145.8
12.5°	8101.9	8101.9	8097.5	8084.4
15°	8018.6	8018.6	8000.9	7987.8
17.5°	7904.4	7913.2	7891.3	7891.3
20°	7781.5	7777.1	7759.6	7750.8
22.5°	7654.3	7645.5	7641.1	7614.8
25°	7518.2	7509.4	7496.2	7483.1
27.5°	7285.6	7281.2	7268.0	7250.5
30°	6930.1	6925.7	6908.1	6908.1
32.5°	6469.2	6464.8	6447.3	6451.7
35°	5990.8	6008.4	5999.6	5982.1
37.5°	5591.4	5604.7	5613.5	5604.7
40°	5257.9	5297.4	5301.8	5310.6
42.5°	4902.4	4955.1	4972.7	4981.4
45°	4476.6	4525.0	4564.5	4555.7
47.5°	4042.1	4077.3	4112.4	4086.1
50°	3625.3	3647.2	3660.4	3660.4
52.5°	3230.3	3230.3	3225.9	3230.3
55°	2778.2	2778.2	2760.7	2769.4
57.5°	2304.1	2313.0	2299.7	2277.8
60°	1865.2	1843.3	1834.5	1821.4
62.5°	1452.8	1452.8	1422.0	1461.5
65°	1088.5	1075.3	1062.1	1057.7
67.5°	790.0	785.7	772.5	768.0
70°	557.4	539.8	535.4	526.6
72.5°	373.1	373.1	364.3	364.3
75°	228.2	206.3	201.9	206.3
77.5°	158.0	153.6	153.6	149.3
80°	105.3	100.9	109.8	96.5
82.5°	65.8	70.2	65.8	70.2
85°	43.9	52.6	48.3	48.3
87.5°	26.3	26.3	26.3	26.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)