

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: P248423

Luminaire Tested: **LD8B175D010 ER8B1759727 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B1759727 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13414.0 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

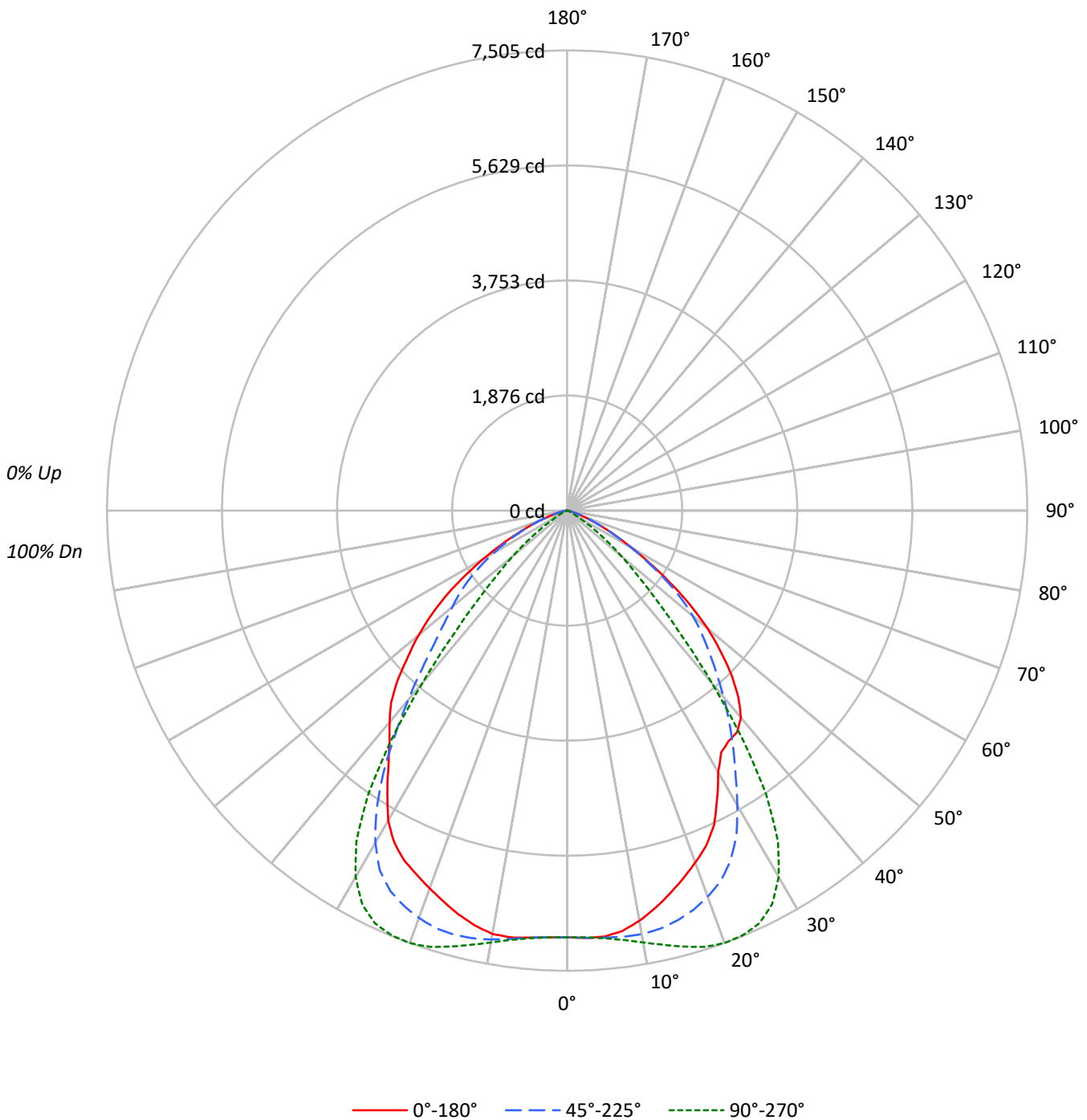
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10	0
RW	70	50	30	10	70	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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	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°	669.2	5.0
10°-20°	1982.5	14.8
20°-30°	3024.4	22.5
30°-40°	3156.0	23.5
40°-50°	2370.6	17.7
50°-60°	1458.6	10.9
60°-70°	593.6	4.4
70°-80°	139.8	1.0
80°-90°	19.2	0.1
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°	5676.1	42.3
0°-40°	8832.1	65.8
0°-60°	12661.3	94.4
0°-90°	13414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13414.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6959	6959	6959	6959	6959	
5°	6974	6992	6999	6992	6992	660
15°	6468	6922	7361	7158	6822	1822
25°	5666	6301	7424	6837	6294	2576
35°	4591	4720	5655	5226	5079	2899
45°	3790	3280	2046	3055	3908	2891
55°	2046	1943	536	1943	2397	1839
65°	639	646	81	868	920	666
75°	111	111	15	196	203	133
85°	11	11	4	26	33	16
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°	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7
2.5°	6977.2	6966.1	6977.2	6977.2	6980.9	6973.5	6977.2	6980.9	6973.5	6973.5	6973.5
5°	6973.5	6966.1	6973.5	6969.8	6977.2	6977.2	6984.6	6984.6	6992.0	6992.0	7003.1
7.5°	6914.4	6899.7	6914.4	6925.5	6932.9	6947.7	6966.1	6980.9	6995.7	7010.5	7028.9
10°	6792.5	6792.5	6803.6	6825.8	6847.9	6873.8	6907.0	6944.0	6980.9	7014.1	7047.4
12.5°	6641.1	6630.0	6652.2	6681.7	6715.0	6755.6	6807.3	6862.7	6921.8	6988.3	7040.0
15°	6467.5	6456.4	6482.2	6511.8	6552.5	6611.6	6674.4	6748.2	6833.2	6921.8	7006.8
17.5°	6290.2	6286.5	6312.3	6353.0	6386.3	6449.0	6530.3	6618.9	6715.0	6833.2	6944.0
20°	6109.3	6105.6	6131.4	6164.7	6208.9	6268.1	6349.3	6452.7	6567.2	6700.2	6829.5
22.5°	5920.8	5924.5	5946.7	5983.6	6020.6	6083.3	6168.3	6271.8	6397.3	6541.4	6685.4
25°	5666.0	5647.5	5677.1	5714.0	5776.8	5828.5	5909.8	6020.6	6149.8	6301.3	6471.2
27.5°	5296.6	5292.9	5318.8	5352.0	5407.4	5470.2	5558.9	5673.4	5810.0	5976.2	6142.4
30°	4927.2	4934.6	4945.8	4979.0	5015.9	5078.7	5167.4	5263.4	5392.7	5551.5	5728.8
32.5°	4676.1	4676.1	4690.9	4713.0	4738.9	4772.1	4835.0	4905.1	5004.9	5115.7	5244.9
35°	4591.1	4576.4	4591.1	4594.8	4598.5	4605.9	4617.0	4639.2	4672.4	4720.4	4768.4
37.5°	4554.2	4543.1	4543.1	4528.4	4509.9	4487.7	4458.2	4424.9	4388.0	4340.0	4303.1
40°	4410.2	4402.8	4395.4	4380.6	4340.0	4295.7	4247.6	4170.1	4085.1	3966.9	3848.8
42.5°	4133.2	4125.8	4122.1	4092.5	4055.6	4003.9	3948.5	3867.2	3760.1	3608.6	3438.7
45°	3789.7	3774.8	3763.8	3738.0	3712.0	3667.7	3616.0	3542.1	3435.0	3279.9	3076.8
47.5°	3390.7	3383.3	3379.6	3368.6	3342.7	3316.8	3283.6	3224.5	3128.5	2980.7	2770.2
50°	2988.1	2973.4	2980.7	2977.1	2966.0	2947.5	2925.3	2884.7	2810.8	2677.9	2485.8
52.5°	2526.4	2526.4	2522.8	2533.8	2537.5	2533.8	2537.5	2493.2	2430.4	2330.6	2168.1
55°	2046.2	2046.2	2057.3	2072.1	2086.9	2090.6	2086.9	2068.4	2024.1	1942.8	1798.8
57.5°	1595.6	1588.3	1610.4	1632.6	1647.4	1662.1	1651.0	1636.3	1610.4	1543.9	1433.1
60°	1215.2	1215.2	1229.9	1244.8	1259.5	1274.3	1270.6	1266.9	1244.8	1200.4	1111.8
62.5°	893.8	897.5	897.5	908.6	923.4	938.2	949.2	938.2	927.1	897.5	838.4
65°	639.0	635.3	639.0	650.1	661.2	675.9	683.3	679.6	668.5	646.4	602.1
67.5°	428.5	424.8	439.5	443.2	450.6	465.4	461.7	465.4	461.7	443.2	406.3
70°	280.7	273.3	280.7	277.0	288.1	291.8	299.1	302.9	299.1	288.1	277.0
72.5°	173.6	169.9	173.6	177.3	181.0	184.6	192.1	192.1	188.3	181.0	166.2
75°	110.8	99.7	103.4	96.1	103.4	103.4	110.8	114.5	110.8	110.8	103.4
77.5°	66.5	66.5	66.5	66.5	66.5	66.5	66.5	70.2	73.8	66.5	62.8
80°	33.3	33.3	37.0	37.0	37.0	40.7	37.0	37.0	37.0	40.7	29.6
82.5°	25.8	22.1	22.1	22.1	25.8	22.1	22.1	22.1	22.1	22.1	22.1
85°	11.1	14.7	11.1	7.4	11.1	11.1	14.7	11.1	11.1	11.1	14.7
87.5°	3.7	3.7	0.0	0.0	0.0	3.7	0.0	3.7	3.7	7.4	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7
2.5°	6977.2	6969.8	6969.8	6966.1	6973.5	6966.1	6969.8	6966.1	6966.1	6973.5	6966.1
5°	7003.1	7006.8	6999.4	6995.7	7006.8	7006.8	7006.8	6999.4	6999.4	7003.1	6999.4
7.5°	7040.0	7047.4	7051.1	7054.8	7062.2	7065.9	7065.9	7062.2	7058.5	7069.6	7054.8
10°	7080.6	7091.7	7113.9	7125.0	7143.4	7143.4	7150.8	7150.8	7143.4	7150.8	7147.1
12.5°	7065.9	7132.3	7169.3	7195.1	7221.0	7243.1	7250.5	7254.2	7250.5	7265.4	7250.5
15°	7091.7	7147.1	7206.2	7250.5	7298.5	7324.4	7331.8	7361.3	7368.7	7372.5	7350.3
17.5°	7051.1	7150.8	7213.6	7280.1	7350.3	7398.3	7442.6	7461.1	7464.8	7472.1	7442.6
20°	6958.7	7069.6	7165.6	7261.6	7342.9	7416.7	7453.7	7505.4	7490.7	7520.2	7479.5
22.5°	6833.2	6958.7	7080.6	7206.2	7291.2	7379.9	7457.4	7494.3	7512.8	7512.8	7468.4
25°	6633.7	6781.5	6914.4	7043.7	7173.0	7280.1	7368.7	7424.1	7435.3	7431.6	7379.9
27.5°	6323.5	6482.2	6637.4	6785.2	6944.0	7069.6	7173.0	7239.4	7257.9	7257.9	7202.5
30°	5895.0	6064.9	6216.4	6393.6	6556.2	6696.5	6840.6	6899.7	6932.9	6932.9	6870.1
32.5°	5385.3	5529.3	5669.7	5843.3	6020.6	6179.4	6316.0	6397.3	6438.0	6434.3	6378.9
35°	4831.2	4901.4	5008.6	5137.8	5296.6	5444.4	5577.3	5654.9	5725.1	5721.4	5669.7
37.5°	4277.2	4258.7	4269.8	4317.8	4417.5	4521.0	4624.4	4698.3	4757.3	4783.3	4772.1
40°	3734.3	3638.2	3545.8	3512.7	3520.0	3556.9	3612.3	3667.7	3734.3	3767.5	3782.3
42.5°	3246.7	3084.2	2921.6	2799.8	2729.5	2707.4	2733.3	2751.7	2792.4	2840.3	2888.4
45°	2855.2	2637.3	2423.0	2234.6	2116.4	2046.2	2031.5	2046.2	2068.4	2116.4	2179.2
47.5°	2533.8	2278.9	2038.9	1828.3	1654.7	1562.4	1536.6	1529.2	1551.3	1595.6	1680.6
50°	2249.4	1994.5	1728.6	1484.8	1303.9	1200.4	1163.5	1148.7	1174.5	1207.8	1285.3
52.5°	1939.1	1688.0	1414.7	1178.2	989.9	882.8	842.1	820.0	834.7	879.1	956.6
55°	1603.0	1370.3	1122.8	879.1	698.1	598.4	550.3	535.6	550.3	598.4	675.9
57.5°	1266.9	1071.1	864.3	635.3	472.8	373.1	325.0	310.3	350.9	369.4	450.6
60°	989.9	831.1	653.8	465.4	325.0	247.5	199.5	188.3	206.9	240.0	306.6
62.5°	742.4	642.7	502.3	332.4	240.0	158.8	132.9	121.9	132.9	158.8	210.6
65°	539.3	461.7	350.9	243.7	162.5	118.2	88.7	81.2	92.4	110.8	155.2
67.5°	369.4	310.3	243.7	169.9	110.8	73.8	62.8	62.8	66.5	81.2	114.5
70°	240.0	203.2	155.2	110.8	73.8	55.4	48.0	40.7	48.0	59.1	77.5
72.5°	151.5	129.2	99.7	77.5	55.4	40.7	33.3	29.6	37.0	44.3	59.1
75°	92.4	70.2	51.7	40.7	29.6	29.6	29.6	14.7	18.4	29.6	37.0
77.5°	55.4	48.0	40.7	33.3	25.8	14.7	14.7	14.7	18.4	22.1	33.3
80°	29.6	25.8	18.4	18.4	14.7	11.1	14.7	11.1	7.4	18.4	22.1
82.5°	18.4	14.7	14.7	14.7	18.4	7.4	11.1	7.4	11.1	14.7	11.1
85°	11.1	11.1	11.1	7.4	18.4	7.4	7.4	3.7	3.7	7.4	7.4
87.5°	0.0	3.7	3.7	0.0	3.7	0.0	3.7	3.7	3.7	3.7	3.7
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7
2.5°	6969.8	6966.1	6969.8	6966.1	6966.1	6966.1	6969.8	6969.8	6966.1	6966.1	6973.5
5°	6999.4	6999.4	6999.4	6995.7	6992.0	6992.0	6999.4	6999.4	6988.3	6999.4	6999.4
7.5°	7062.2	7051.1	7062.2	7047.4	7040.0	7043.7	7047.4	7040.0	7032.6	7036.3	7036.3
10°	7143.4	7132.3	7132.3	7121.3	7110.2	7102.8	7095.4	7076.9	7058.5	7054.8	7040.0
12.5°	7239.4	7221.0	7210.0	7187.7	7169.3	7143.4	7121.3	7091.7	7054.8	7028.9	7003.1
15°	7335.5	7305.9	7280.1	7243.1	7202.5	7158.2	7110.2	7062.2	7003.1	6951.4	6907.0
17.5°	7413.0	7372.5	7324.4	7265.4	7206.2	7139.7	7069.6	6999.4	6914.4	6847.9	6796.2
20°	7438.9	7379.9	7317.1	7239.4	7161.9	7069.6	6980.9	6888.6	6792.5	6722.4	6663.3
22.5°	7405.7	7335.5	7257.9	7176.7	7073.2	6973.5	6870.1	6763.0	6678.0	6582.0	6526.6
25°	7313.3	7228.4	7143.4	7047.4	6947.7	6836.9	6726.1	6615.3	6511.8	6460.1	6390.0
27.5°	7125.0	7032.6	6940.3	6840.6	6726.1	6615.3	6500.8	6393.6	6305.0	6234.8	6194.2
30°	6792.5	6685.4	6578.3	6471.2	6371.4	6256.9	6149.8	6061.2	5972.5	5917.1	5876.5
32.5°	6282.8	6186.8	6079.7	5976.2	5884.0	5787.9	5699.2	5621.7	5558.9	5521.9	5492.4
35°	5595.8	5499.8	5418.5	5344.7	5267.0	5226.5	5171.1	5126.7	5100.8	5086.1	5082.4
37.5°	4731.5	4676.1	4650.2	4635.5	4620.7	4609.6	4617.0	4635.5	4650.2	4676.1	4705.6
40°	3808.1	3856.1	3870.9	3922.6	3970.6	4033.4	4103.6	4184.9	4251.3	4336.3	4395.4
42.5°	2966.0	3054.6	3158.0	3268.8	3387.0	3501.5	3641.9	3771.1	3889.3	3996.4	4088.8
45°	2278.9	2415.6	2570.8	2729.5	2888.4	3054.6	3224.5	3383.3	3523.7	3638.2	3734.3
47.5°	1776.6	1928.1	2127.5	2323.3	2515.4	2711.1	2899.5	3065.7	3183.9	3294.7	3379.6
50°	1407.3	1580.9	1798.8	2024.1	2234.6	2441.4	2640.9	2796.1	2914.3	3002.9	3065.7
52.5°	1089.6	1296.4	1518.1	1754.5	1979.8	2205.1	2389.7	2533.8	2629.9	2707.4	2755.4
55°	812.6	1015.7	1252.2	1495.9	1724.9	1942.8	2116.4	2242.1	2327.0	2371.3	2397.1
57.5°	587.3	772.0	1008.3	1252.2	1458.9	1665.8	1806.2	1920.7	1968.7	1994.5	2005.6
60°	428.5	598.4	808.9	1019.4	1215.2	1381.4	1503.3	1580.9	1617.8	1632.6	1628.9
62.5°	314.0	461.7	642.7	820.0	978.8	1115.4	1211.5	1263.2	1281.7	1289.0	1278.0
65°	240.0	354.5	509.7	646.4	768.3	868.0	938.2	971.5	982.5	978.8	971.5
67.5°	177.3	266.0	380.5	483.9	572.5	650.1	687.0	716.6	723.9	712.9	701.8
70°	125.6	195.8	277.0	347.2	413.7	458.0	498.6	502.3	502.3	498.6	491.3
72.5°	88.7	136.6	188.3	236.4	277.0	310.3	325.0	336.1	332.4	328.7	321.4
75°	59.1	85.0	136.6	147.8	184.6	195.8	210.6	210.6	214.2	203.2	203.2
77.5°	37.0	59.1	81.2	96.1	110.8	125.6	132.9	132.9	136.6	132.9	132.9
80°	22.1	37.0	44.3	66.5	66.5	77.5	81.2	85.0	77.5	88.7	77.5
82.5°	14.7	22.1	33.3	33.3	40.7	48.0	48.0	51.7	51.7	48.0	48.0
85°	11.1	14.7	18.4	22.1	22.1	25.8	22.1	22.1	25.8	29.6	25.8
87.5°	3.7	7.4	3.7	7.4	7.4	14.7	11.1	11.1	11.1	14.7	14.7
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: P248423

CATALOG NUMBER: LD8B175D010 ER8B1759727 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6958.7	6958.7	6958.7	6958.7
2.5°	6966.1	6969.8	6966.1	6966.1
5°	6999.4	6995.7	6999.4	6992.0
7.5°	7025.2	7025.2	7021.5	7021.5
10°	7025.2	7010.5	7010.5	7010.5
12.5°	6969.8	6951.4	6940.3	6932.9
15°	6873.8	6840.6	6825.8	6822.1
17.5°	6748.2	6718.7	6700.2	6689.1
20°	6604.2	6574.6	6552.5	6556.2
22.5°	6478.5	6445.4	6430.6	6423.1
25°	6353.0	6312.3	6301.3	6293.9
27.5°	6149.8	6127.7	6116.6	6105.6
30°	5839.6	5828.5	5810.0	5835.9
32.5°	5481.3	5462.8	5448.1	5459.2
35°	5086.1	5075.0	5086.1	5078.7
37.5°	4724.2	4735.2	4750.0	4757.3
40°	4439.7	4480.3	4495.1	4502.5
42.5°	4155.3	4203.3	4232.9	4251.3
45°	3804.4	3852.4	3885.6	3907.9
47.5°	3442.4	3483.1	3516.3	3512.7
50°	3113.7	3135.9	3150.6	3165.4
52.5°	2781.2	2781.2	2784.9	2784.9
55°	2404.6	2397.1	2393.4	2397.1
57.5°	1990.8	1983.5	1979.8	1968.7
60°	1614.1	1592.0	1577.2	1577.2
62.5°	1263.2	1237.3	1226.3	1222.6
65°	949.2	945.5	923.4	919.7
67.5°	687.0	672.2	657.5	661.2
70°	483.9	461.7	461.7	454.3
72.5°	314.0	302.9	299.1	299.1
75°	195.8	195.8	188.3	203.2
77.5°	129.2	129.2	125.6	129.2
80°	77.5	77.5	77.5	73.8
82.5°	48.0	51.7	48.0	48.0
85°	25.8	29.6	22.1	33.3
87.5°	14.7	18.4	14.7	18.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)