

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: P249287

Luminaire Tested: **LD8B175D010 ER8B1759727 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249287
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 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12877.0 lumens
Efficiency: N/A
Efficacy: 72.7 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

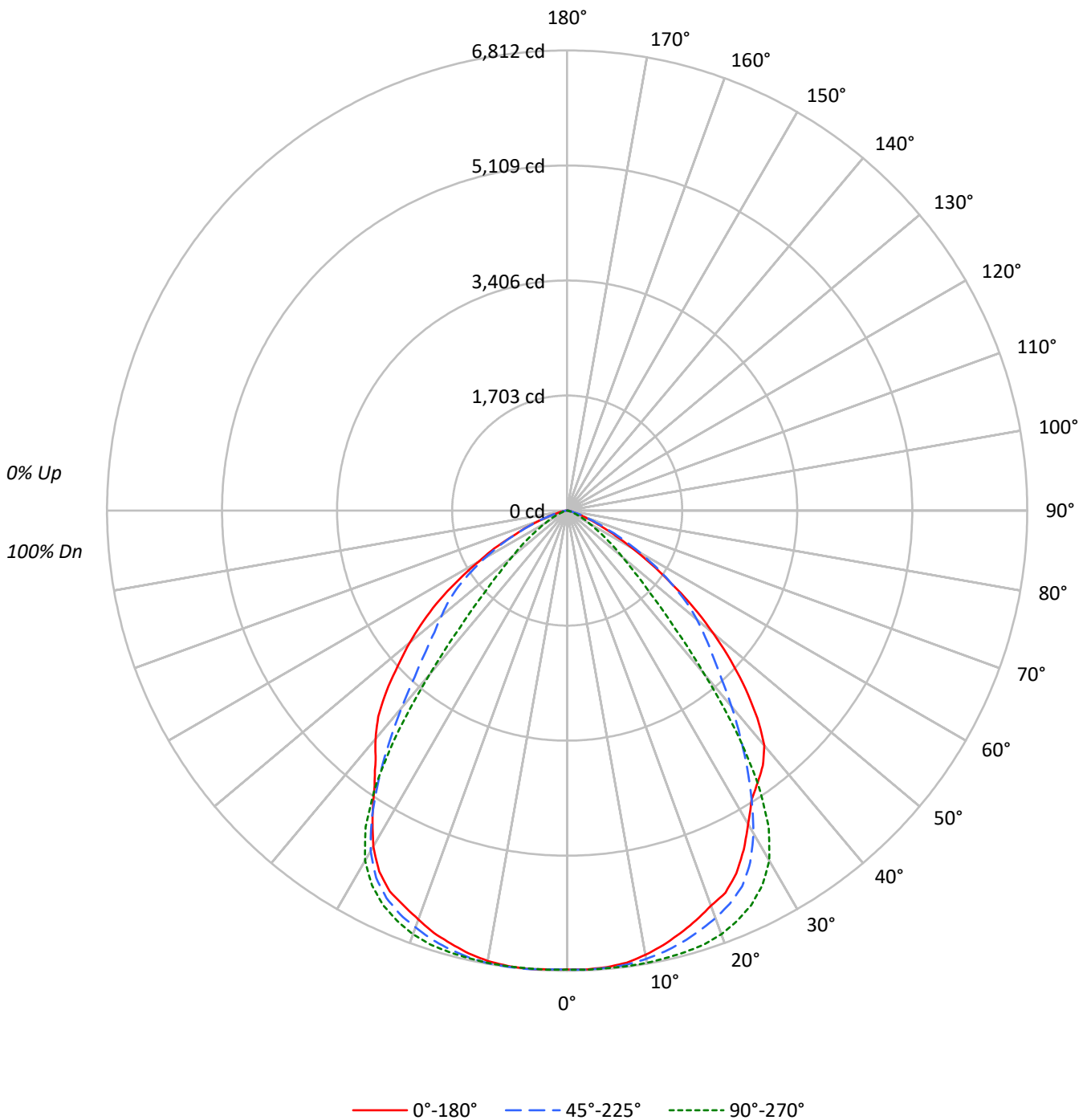
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	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°	648.4	5.0
10°-20°	1883.1	14.6
20°-30°	2858.1	22.2
30°-40°	3001.9	23.3
40°-50°	2250.6	17.5
50°-60°	1444.0	11.2
60°-70°	617.7	4.8
70°-80°	145.9	1.1
80°-90°	27.1	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°	5389.6	41.9
0°-40°	8391.5	65.2
0°-60°	12086.2	93.9
0°-90°	12877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12877.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6794	6794	6794	6794	6794	
5°	6783	6794	6802	6812	6809	644
15°	6477	6612	6765	6721	6637	1827
25°	5926	6134	6444	6327	6218	2707
35°	4916	4642	4920	4861	4971	3085
45°	3734	3052	1754	2965	3786	2860
55°	1889	1889	653	1969	2301	1714
65°	569	671	208	864	879	607
75°	88	102	29	175	171	127
85°	29	18	14	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°	6794.2	6794.2	6794.2	6794.2	6794.2	6794.2	6794.2	6794.2	6794.2	6794.2	6794.2
2.5°	6797.8	6805.1	6801.5	6801.5	6797.8	6801.5	6801.5	6808.8	6808.8	6801.5	6797.8
5°	6783.2	6790.5	6790.5	6783.2	6783.2	6801.5	6790.5	6797.8	6797.8	6794.2	6794.2
7.5°	6750.4	6750.4	6765.0	6754.1	6754.1	6765.0	6761.3	6768.6	6776.0	6779.6	6779.6
10°	6677.4	6684.8	6688.4	6688.4	6692.1	6703.0	6710.3	6724.9	6732.1	6739.5	6743.1
12.5°	6586.3	6597.2	6600.9	6597.2	6608.2	6622.7	6641.0	6659.2	6670.2	6684.8	6695.7
15°	6476.8	6476.8	6484.2	6495.1	6502.5	6524.3	6542.5	6564.4	6593.6	6611.9	6630.1
17.5°	6356.6	6363.9	6374.8	6374.8	6389.4	6425.8	6436.8	6469.6	6502.5	6520.7	6557.2
20°	6225.3	6232.5	6243.5	6250.8	6269.0	6298.2	6320.1	6349.2	6385.7	6418.6	6455.0
22.5°	6123.1	6108.6	6115.8	6123.1	6141.4	6166.9	6192.5	6228.9	6265.4	6298.2	6334.7
25°	5926.2	5929.8	5940.8	5948.0	5970.0	5991.9	6021.0	6064.8	6097.6	6134.1	6174.2
27.5°	5660.0	5663.7	5681.9	5681.9	5700.1	5736.6	5754.8	5791.3	5835.1	5871.5	5919.0
30°	5357.3	5364.5	5364.5	5379.2	5390.1	5408.4	5426.6	5463.1	5484.9	5517.8	5583.4
32.5°	5080.2	5087.4	5083.7	5080.2	5069.2	5065.5	5061.9	5069.2	5076.5	5087.4	5112.9
35°	4916.1	4897.8	4883.2	4857.7	4828.5	4792.0	4759.2	4715.5	4675.3	4642.5	4606.1
37.5°	4759.2	4755.5	4733.7	4697.2	4638.8	4573.2	4496.7	4401.8	4307.0	4204.9	4106.4
40°	4540.4	4529.4	4511.2	4460.2	4394.5	4314.3	4212.2	4095.5	3942.3	3785.5	3625.0
42.5°	4168.4	4172.0	4150.2	4110.0	4048.1	3971.4	3865.7	3738.1	3574.0	3387.9	3180.1
45°	3734.4	3734.4	3727.1	3694.3	3650.5	3588.5	3508.3	3402.6	3242.1	3052.4	2830.0
47.5°	3282.2	3285.8	3274.9	3267.6	3249.4	3209.3	3150.9	3070.7	2957.6	2775.3	2552.8
50°	2822.7	2822.7	2840.9	2837.3	2837.3	2822.7	2797.2	2749.7	2651.3	2505.4	2297.6
52.5°	2363.2	2370.5	2381.5	2396.0	2414.2	2443.4	2414.2	2392.4	2330.3	2217.3	2038.6
55°	1889.1	1896.4	1914.6	1940.1	1962.1	1991.2	1998.5	1998.5	1965.6	1889.1	1754.2
57.5°	1484.3	1473.3	1488.0	1509.8	1539.0	1568.2	1590.1	1615.6	1611.9	1560.9	1451.5
60°	1116.0	1119.6	1130.5	1152.5	1174.3	1199.8	1229.0	1250.9	1261.9	1236.3	1167.0
62.5°	813.3	813.3	827.8	849.7	860.7	897.2	915.4	926.3	937.2	933.6	889.8
65°	569.0	576.2	583.5	594.5	605.4	627.2	638.2	660.1	667.4	671.0	638.2
67.5°	401.2	390.2	397.5	404.8	415.7	430.4	452.2	452.2	463.1	463.1	441.3
70°	255.3	255.3	259.0	269.8	277.2	280.8	288.1	295.4	306.3	302.7	302.7
72.5°	171.4	167.8	171.4	175.1	178.7	189.6	189.6	193.3	200.6	204.3	189.6
75°	87.5	91.2	98.4	94.9	105.7	98.4	102.1	113.1	109.4	102.1	102.1
77.5°	72.9	72.9	72.9	69.3	76.6	76.6	72.9	80.2	76.6	76.6	72.9
80°	51.0	54.7	51.0	47.4	51.0	47.4	47.4	47.4	47.4	47.4	43.7
82.5°	40.2	32.8	36.5	32.8	36.5	36.5	32.8	29.2	29.2	32.8	29.2
85°	29.2	21.9	25.5	25.5	21.9	21.9	21.9	21.9	21.9	18.2	18.2
87.5°	18.2	11.0	11.0	11.0	14.5	14.5	14.5	11.0	14.5	14.5	7.3
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°	6794.2	6794.2	6794.2	6794.2	6794.2	6794.2	6794.2	6794.2	6794.2	6794.2	6794.2
2.5°	6805.1	6801.5	6808.8	6805.1	6805.1	6801.5	6805.1	6801.5	6808.8	6794.2	6797.8
5°	6805.1	6797.8	6801.5	6805.1	6808.8	6801.5	6801.5	6801.5	6808.8	6801.5	6805.1
7.5°	6790.5	6786.8	6797.8	6805.1	6801.5	6797.8	6805.1	6801.5	6808.8	6805.1	6812.4
10°	6761.3	6765.0	6772.3	6783.2	6786.8	6790.5	6797.8	6797.8	6808.8	6794.2	6801.5
12.5°	6717.6	6732.1	6750.4	6757.7	6772.3	6772.3	6779.6	6783.2	6790.5	6786.8	6797.8
15°	6662.9	6681.1	6703.0	6721.3	6739.5	6750.4	6761.3	6765.0	6776.0	6765.0	6768.6
17.5°	6597.2	6619.1	6651.9	6673.8	6703.0	6713.9	6728.5	6735.8	6746.8	6739.5	6743.1
20°	6506.0	6531.6	6568.0	6600.9	6619.1	6644.6	6662.9	6673.8	6681.1	6673.8	6677.4
22.5°	6378.4	6414.9	6462.3	6487.8	6524.3	6546.2	6549.8	6575.4	6593.6	6575.4	6582.7
25°	6228.9	6265.4	6301.9	6356.6	6389.4	6414.9	6440.4	6444.1	6462.3	6458.6	6455.0
27.5°	5980.9	6028.4	6090.3	6134.1	6177.8	6218.0	6247.2	6254.4	6272.7	6265.4	6269.0
30°	5641.7	5692.8	5751.2	5820.4	5882.5	5922.5	5959.0	5984.5	6002.7	5991.9	5988.2
32.5°	5160.4	5211.4	5273.4	5342.7	5415.7	5473.9	5517.8	5550.6	5572.5	5565.1	5546.9
35°	4609.7	4624.3	4664.4	4719.1	4781.0	4843.1	4883.2	4919.6	4945.2	4952.5	4952.5
37.5°	4044.4	3997.0	3967.9	3967.9	4004.3	4029.8	4066.3	4088.1	4128.3	4142.9	4153.8
40°	3497.3	3387.9	3285.8	3209.3	3158.2	3154.6	3154.6	3165.5	3202.0	3249.4	3293.2
42.5°	3008.7	2833.6	2676.8	2534.6	2432.5	2374.1	2348.6	2352.3	2381.5	2425.2	2498.1
45°	2618.5	2399.7	2202.7	2031.3	1892.7	1801.5	1757.8	1754.2	1776.0	1827.1	1907.4
47.5°	2315.8	2082.4	1859.9	1663.0	1513.5	1415.0	1363.9	1349.4	1363.9	1411.3	1506.2
50°	2064.2	1823.5	1593.7	1389.5	1229.0	1126.9	1079.5	1061.3	1079.5	1119.6	1214.4
52.5°	1830.7	1582.7	1367.6	1170.7	999.2	911.7	860.7	849.7	860.7	908.0	984.7
55°	1560.9	1349.4	1137.8	940.9	791.4	703.9	663.7	652.8	663.7	707.5	787.8
57.5°	1294.7	1112.3	926.3	747.6	620.0	543.3	506.9	492.3	517.8	547.0	641.9
60°	1046.6	900.8	743.9	587.2	481.4	412.1	382.9	379.2	386.6	423.1	488.6
62.5°	820.6	700.2	576.2	448.6	361.0	331.9	295.4	291.8	299.0	320.9	372.0
65°	590.8	514.3	419.4	328.2	259.0	218.8	204.3	207.9	215.1	229.8	277.2
67.5°	412.1	357.4	291.8	229.8	178.7	160.4	145.9	142.2	145.9	171.4	196.9
70°	277.2	244.3	196.9	175.1	124.0	98.4	102.1	91.2	105.7	105.7	127.6
72.5°	182.3	160.4	131.3	102.1	87.5	69.3	69.3	65.7	72.9	76.6	94.9
75°	94.9	72.9	72.9	51.0	36.5	18.2	32.8	29.2	25.5	29.2	36.5
77.5°	65.7	54.7	51.0	40.2	36.5	29.2	29.2	29.2	29.2	32.8	36.5
80°	40.2	40.2	29.2	25.5	21.9	18.2	21.9	21.9	21.9	21.9	25.5
82.5°	25.5	21.9	21.9	18.2	18.2	14.5	14.5	14.5	14.5	14.5	21.9
85°	21.9	14.5	14.5	11.0	14.5	25.5	11.0	14.5	14.5	14.5	11.0
87.5°	7.3	11.0	11.0	11.0	7.3	3.7	7.3	11.0	11.0	18.2	14.5
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°	6794.2	6794.2	6794.2	6794.2	6794.2	6794.2	6794.2	6794.2	6794.2	6794.2	6794.2
2.5°	6805.1	6808.8	6808.8	6805.1	6805.1	6797.8	6812.4	6801.5	6805.1	6819.7	6808.8
5°	6812.4	6816.0	6816.0	6812.4	6812.4	6812.4	6816.0	6816.0	6812.4	6808.8	6816.0
7.5°	6827.0	6823.3	6823.3	6816.0	6816.0	6808.8	6816.0	6805.1	6812.4	6805.1	6816.0
10°	6808.8	6812.4	6808.8	6805.1	6805.1	6801.5	6801.5	6790.5	6794.2	6783.2	6790.5
12.5°	6797.8	6794.2	6794.2	6786.8	6779.6	6772.3	6768.6	6757.7	6757.7	6732.1	6743.1
15°	6768.6	6772.3	6761.3	6746.8	6739.5	6721.3	6713.9	6699.3	6684.8	6666.6	6670.2
17.5°	6743.1	6732.1	6717.6	6703.0	6673.8	6659.2	6644.6	6622.7	6615.4	6593.6	6586.3
20°	6666.6	6659.2	6641.0	6615.4	6597.2	6564.4	6549.8	6528.0	6509.7	6487.8	6476.8
22.5°	6568.0	6560.7	6538.9	6513.3	6484.2	6469.6	6455.0	6414.9	6396.6	6374.8	6371.1
25°	6444.1	6433.1	6411.3	6382.1	6367.4	6327.4	6312.7	6283.6	6276.3	6254.4	6250.8
27.5°	6254.4	6239.8	6214.3	6177.8	6152.3	6126.8	6112.2	6090.3	6083.1	6061.1	6057.5
30°	5970.0	5951.7	5900.7	5886.1	5842.3	5816.8	5816.8	5787.6	5791.3	5776.7	5776.7
32.5°	5521.4	5492.2	5452.1	5422.9	5393.7	5379.2	5379.2	5368.2	5375.5	5375.5	5382.8
35°	4926.9	4886.9	4864.9	4846.7	4846.7	4861.3	4905.1	4916.1	4937.9	4956.1	4970.8
37.5°	4164.7	4161.1	4186.7	4208.5	4263.2	4325.2	4401.8	4467.5	4529.4	4573.2	4616.9
40°	3340.5	3431.7	3504.7	3606.8	3690.6	3811.0	3949.6	4062.6	4168.4	4245.0	4325.2
42.5°	2607.5	2724.2	2877.4	3026.9	3176.4	3340.5	3522.9	3679.7	3818.3	3924.0	4007.9
45°	2031.3	2191.8	2377.8	2567.4	2760.7	2965.0	3154.6	3315.0	3460.9	3570.3	3654.2
47.5°	1637.4	1812.5	2024.0	2231.9	2450.7	2665.9	2877.4	3016.0	3136.3	3223.8	3300.5
50°	1353.0	1539.0	1761.5	1998.5	2217.3	2432.5	2614.8	2749.7	2848.2	2924.8	2972.2
52.5°	1130.5	1327.4	1564.5	1801.5	2020.3	2217.3	2381.5	2483.5	2563.8	2618.5	2662.2
55°	933.6	1123.3	1345.7	1568.2	1783.3	1969.3	2104.2	2180.9	2242.8	2275.6	2301.2
57.5°	762.2	937.2	1141.5	1345.7	1531.7	1684.9	1790.6	1867.2	1896.4	1921.9	1918.3
60°	598.1	762.2	948.2	1123.3	1283.7	1407.7	1484.3	1528.0	1549.9	1560.9	1553.6
62.5°	470.4	620.0	762.2	915.4	1032.1	1137.8	1210.8	1210.8	1221.7	1225.4	1236.3
65°	350.1	463.1	587.2	700.2	795.0	864.3	904.5	915.4	930.0	926.3	919.0
67.5°	259.0	342.8	433.9	517.8	583.5	627.2	656.4	682.0	678.4	671.0	667.4
70°	178.7	233.4	313.7	364.7	412.1	455.9	463.1	466.8	470.4	474.1	466.8
72.5°	124.0	164.1	207.9	251.6	280.8	299.0	317.3	320.9	320.9	320.9	317.3
75°	62.0	83.9	124.0	142.2	167.8	175.1	189.6	189.6	200.6	186.0	182.3
77.5°	54.7	65.7	87.5	102.1	113.1	124.0	127.6	138.6	134.9	127.6	131.3
80°	32.8	40.2	54.7	62.0	76.6	80.2	83.9	87.5	83.9	87.5	87.5
82.5°	25.5	29.2	36.5	36.5	47.4	47.4	51.0	51.0	54.7	54.7	54.7
85°	14.5	25.5	21.9	43.7	29.2	29.2	36.5	43.7	36.5	36.5	43.7
87.5°	14.5	14.5	11.0	14.5	14.5	14.5	18.2	21.9	21.9	25.5	21.9
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: P249287

CATALOG NUMBER: LD8B175D010 ER8B1759727 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6794.2	6794.2	6794.2	6794.2
2.5°	6805.1	6812.4	6801.5	6797.8
5°	6816.0	6816.0	6808.8	6808.8
7.5°	6816.0	6816.0	6805.1	6797.8
10°	6786.8	6786.8	6776.0	6768.6
12.5°	6732.1	6732.1	6728.5	6717.6
15°	6662.9	6662.9	6648.3	6637.4
17.5°	6568.0	6575.4	6557.2	6557.2
20°	6466.0	6462.3	6447.8	6440.4
22.5°	6360.2	6352.9	6349.2	6327.4
25°	6247.2	6239.8	6228.9	6218.0
27.5°	6053.9	6050.2	6039.2	6024.7
30°	5758.4	5754.8	5740.2	5740.2
32.5°	5375.5	5371.9	5357.3	5361.0
35°	4978.0	4992.6	4985.3	4970.8
37.5°	4646.1	4657.1	4664.4	4657.1
40°	4369.0	4401.8	4405.5	4412.8
42.5°	4073.6	4117.3	4132.0	4139.2
45°	3719.8	3759.9	3792.8	3785.5
47.5°	3358.8	3387.9	3417.1	3395.3
50°	3012.3	3030.6	3041.5	3041.5
52.5°	2684.1	2684.1	2680.5	2684.1
55°	2308.5	2308.5	2293.9	2301.2
57.5°	1914.6	1921.9	1910.9	1892.7
60°	1549.9	1531.7	1524.4	1513.5
62.5°	1207.2	1207.2	1181.6	1214.4
65°	904.5	893.5	882.5	878.9
67.5°	656.4	652.8	641.9	638.2
70°	463.1	448.6	444.9	437.6
72.5°	310.0	310.0	302.7	302.7
75°	189.6	171.4	167.8	171.4
77.5°	131.3	127.6	127.6	124.0
80°	87.5	83.9	91.2	80.2
82.5°	54.7	58.4	54.7	58.4
85°	36.5	43.7	40.2	40.2
87.5°	21.9	21.9	21.9	21.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)