

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: P249512

Luminaire Tested: **LD8B175D010 ER8B1759730 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249512
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 ER8B1759730 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12119.0 lumens
Efficiency: N/A
Efficacy: 68.4 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

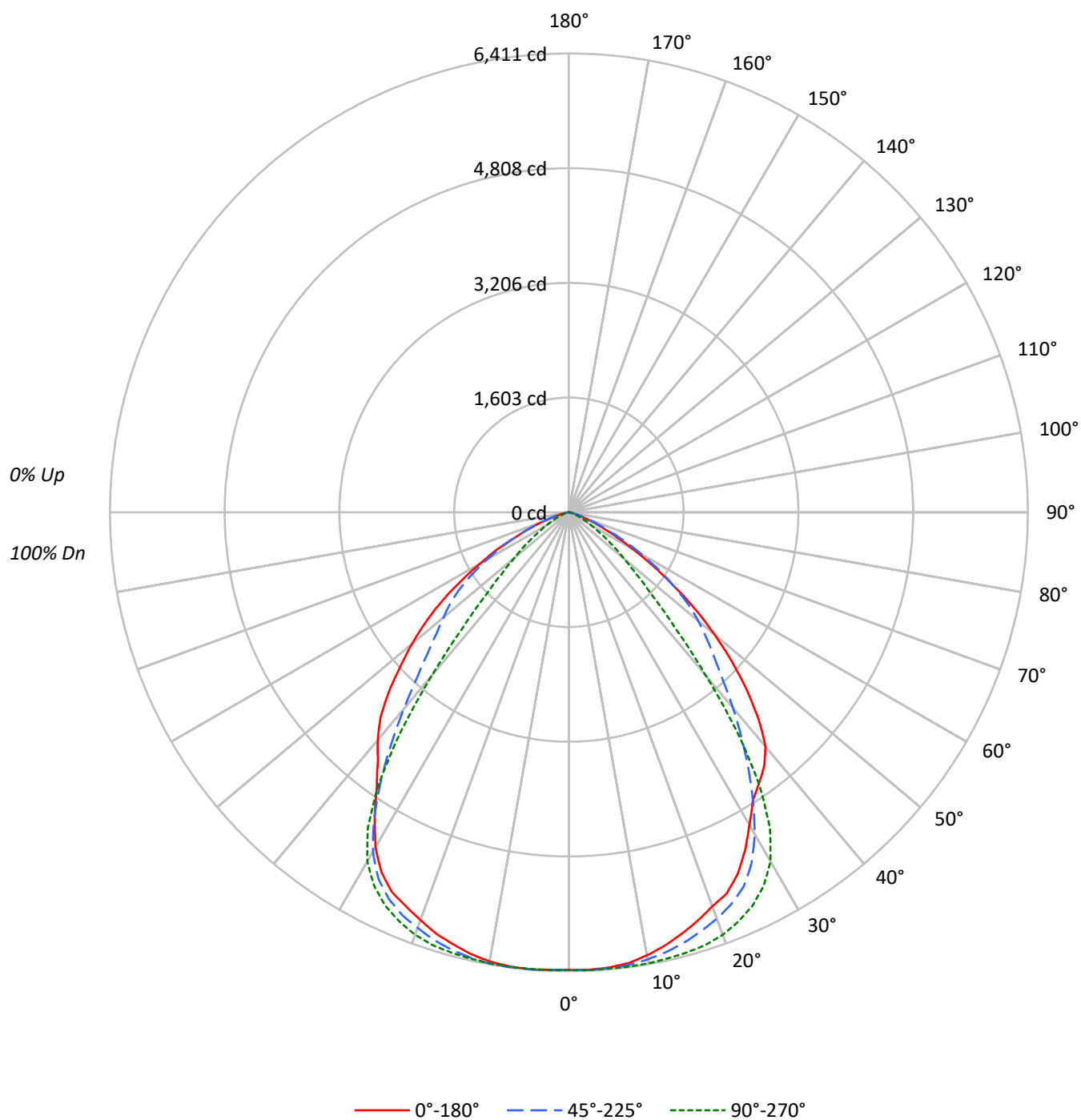
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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						
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°	610.2	5.0
10°-20°	1772.2	14.6
20°-30°	2689.9	22.2
30°-40°	2825.2	23.3
40°-50°	2118.1	17.5
50°-60°	1359.1	11.2
60°-70°	581.4	4.8
70°-80°	137.4	1.1
80°-90°	25.6	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°	5072.3	41.9
0°-40°	7897.5	65.2
0°-60°	11374.7	93.9
0°-90°	12119.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12119.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6394	6394	6394	6394	6394	
5°	6384	6394	6401	6411	6408	606
15°	6096	6223	6367	6326	6247	1719
25°	5577	5773	6065	5955	5852	2548
35°	4627	4369	4630	4575	4678	2904
45°	3515	2873	1651	2790	3563	2692
55°	1778	1778	614	1853	2166	1613
65°	536	632	196	813	827	572
75°	82	96	28	165	161	120
85°	28	17	14	28	38	29
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°	6394.2	6394.2	6394.2	6394.2	6394.2	6394.2	6394.2	6394.2	6394.2	6394.2	6394.2
2.5°	6397.7	6404.6	6401.1	6401.1	6397.7	6401.1	6401.1	6408.0	6408.0	6401.1	6397.7
5°	6383.9	6390.8	6390.8	6383.9	6383.9	6401.1	6390.8	6397.7	6397.7	6394.2	6394.2
7.5°	6353.1	6353.1	6366.8	6356.5	6356.5	6366.8	6363.3	6370.2	6377.1	6380.5	6380.5
10°	6284.4	6291.3	6294.7	6294.7	6298.1	6308.4	6315.3	6329.1	6335.9	6342.7	6346.2
12.5°	6198.6	6208.9	6212.3	6208.9	6219.2	6232.9	6250.1	6267.2	6277.6	6291.3	6301.6
15°	6095.6	6095.6	6102.5	6112.8	6119.7	6140.3	6157.4	6178.0	6205.4	6222.6	6239.8
17.5°	5982.4	5989.3	5999.5	5999.5	6013.3	6047.6	6057.9	6088.8	6119.7	6136.8	6171.2
20°	5858.8	5865.6	5876.0	5882.9	5900.0	5927.5	5948.0	5975.5	6009.8	6040.7	6075.0
22.5°	5762.7	5749.0	5755.8	5762.7	5779.9	5803.9	5827.9	5862.2	5896.6	5927.5	5961.8
25°	5577.3	5580.8	5591.1	5597.9	5618.6	5639.1	5666.6	5707.8	5738.7	5773.0	5810.7
27.5°	5326.8	5330.3	5347.4	5347.4	5364.5	5398.9	5416.0	5450.4	5491.6	5525.9	5570.5
30°	5042.0	5048.8	5048.8	5062.5	5072.8	5090.0	5107.1	5141.5	5162.1	5193.0	5254.8
32.5°	4781.1	4787.9	4784.5	4781.1	4770.8	4767.3	4763.9	4770.8	4777.7	4787.9	4811.9
35°	4626.7	4609.5	4595.8	4571.8	4544.3	4509.9	4479.0	4437.9	4400.1	4369.2	4334.9
37.5°	4479.0	4475.6	4455.0	4420.7	4365.7	4304.0	4232.0	4142.7	4053.4	3957.3	3864.7
40°	4273.1	4262.8	4245.7	4197.6	4135.8	4060.3	3964.2	3854.4	3710.2	3562.6	3411.6
42.5°	3923.0	3926.4	3905.9	3868.1	3809.8	3737.7	3638.1	3518.0	3363.6	3188.5	2992.9
45°	3514.6	3514.6	3507.7	3476.8	3435.7	3377.3	3301.8	3202.3	3051.3	2872.7	2663.4
47.5°	3089.0	3092.4	3082.1	3075.3	3058.1	3020.4	2965.4	2890.0	2783.5	2611.9	2402.5
50°	2656.6	2656.6	2673.7	2670.3	2670.3	2656.6	2632.5	2587.9	2495.2	2357.9	2162.3
52.5°	2224.1	2231.0	2241.3	2255.0	2272.1	2299.6	2272.1	2251.5	2193.2	2086.8	1918.6
55°	1777.9	1784.8	1801.9	1825.9	1846.6	1874.0	1880.8	1880.8	1849.9	1777.9	1650.9
57.5°	1396.9	1386.6	1400.4	1421.0	1448.4	1475.9	1496.5	1520.5	1517.0	1469.0	1366.0
60°	1050.3	1053.7	1064.0	1084.6	1105.2	1129.2	1156.7	1177.2	1187.6	1163.6	1098.3
62.5°	765.4	765.4	779.1	799.7	810.0	844.3	861.5	871.8	882.1	878.6	837.5
65°	535.5	542.3	549.2	559.5	569.7	590.3	600.6	621.2	628.1	631.5	600.6
67.5°	377.6	367.2	374.1	380.9	391.3	405.0	425.6	425.6	435.9	435.9	415.3
70°	240.3	240.3	243.7	254.0	260.8	264.3	271.2	278.0	288.3	284.9	284.9
72.5°	161.3	157.9	161.3	164.8	168.2	178.5	178.5	181.9	188.8	192.2	178.5
75°	82.4	85.8	92.6	89.3	99.5	92.6	96.1	106.4	103.0	96.1	96.1
77.5°	68.6	68.6	68.6	65.3	72.1	72.1	68.6	75.5	72.1	72.1	68.6
80°	48.0	51.5	48.0	44.6	48.0	44.6	44.6	44.6	44.6	44.6	41.2
82.5°	37.8	30.9	34.3	30.9	34.3	34.3	30.9	27.5	27.5	30.9	27.5
85°	27.5	20.6	24.0	24.0	20.6	20.6	20.6	20.6	20.6	17.1	17.1
87.5°	17.1	10.3	10.3	10.3	13.7	13.7	13.7	10.3	13.7	13.7	6.9
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°	6394.2	6394.2	6394.2	6394.2	6394.2	6394.2	6394.2	6394.2	6394.2	6394.2	6394.2
2.5°	6404.6	6401.1	6408.0	6404.6	6404.6	6401.1	6404.6	6401.1	6408.0	6394.2	6397.7
5°	6404.6	6397.7	6401.1	6404.6	6408.0	6401.1	6401.1	6401.1	6408.0	6401.1	6404.6
7.5°	6390.8	6387.3	6397.7	6404.6	6401.1	6397.7	6404.6	6401.1	6408.0	6404.6	6411.4
10°	6363.3	6366.8	6373.6	6383.9	6387.3	6390.8	6397.7	6397.7	6408.0	6394.2	6401.1
12.5°	6322.2	6335.9	6353.1	6359.9	6373.6	6373.6	6380.5	6383.9	6390.8	6387.3	6397.7
15°	6270.7	6287.8	6308.4	6325.6	6342.7	6353.1	6363.3	6366.8	6377.1	6366.8	6370.2
17.5°	6208.9	6229.5	6260.4	6280.9	6308.4	6318.7	6332.4	6339.3	6349.6	6342.7	6346.2
20°	6123.0	6147.1	6181.4	6212.3	6229.5	6253.5	6270.7	6280.9	6287.8	6280.9	6284.4
22.5°	6003.0	6037.3	6081.9	6105.9	6140.3	6160.8	6164.3	6188.3	6205.4	6188.3	6195.2
25°	5862.2	5896.6	5930.9	5982.4	6013.3	6037.3	6061.3	6064.8	6081.9	6078.5	6075.0
27.5°	5628.8	5673.5	5731.8	5773.0	5814.2	5852.0	5879.4	5886.2	5903.4	5896.6	5900.0
30°	5309.6	5357.7	5412.7	5477.8	5536.2	5573.9	5608.2	5632.3	5649.4	5639.1	5635.7
32.5°	4856.6	4904.7	4963.0	5028.2	5096.9	5151.7	5193.0	5223.9	5244.4	5237.6	5220.4
35°	4338.4	4352.1	4389.8	4441.3	4499.6	4558.0	4595.8	4630.0	4654.1	4660.9	4660.9
37.5°	3806.4	3761.8	3734.3	3734.3	3768.6	3792.6	3826.9	3847.5	3885.3	3899.0	3909.3
40°	3291.5	3188.5	3092.4	3020.4	2972.3	2968.9	2968.9	2979.1	3013.5	3058.1	3099.3
42.5°	2831.6	2666.8	2519.3	2385.4	2289.3	2234.4	2210.4	2213.8	2241.3	2282.4	2351.0
45°	2464.3	2258.4	2073.1	1911.7	1781.3	1695.5	1654.3	1650.9	1671.5	1719.5	1795.1
47.5°	2179.5	1959.8	1750.4	1565.1	1424.4	1331.7	1283.6	1270.0	1283.6	1328.2	1417.5
50°	1942.6	1716.1	1499.9	1307.7	1156.7	1060.6	1015.9	998.8	1015.9	1053.7	1142.9
52.5°	1723.0	1489.6	1287.1	1101.7	940.4	858.0	810.0	799.7	810.0	854.6	926.7
55°	1469.0	1270.0	1070.8	885.5	744.8	662.4	624.7	614.4	624.7	665.9	741.4
57.5°	1218.5	1046.8	871.8	703.6	583.5	511.4	477.1	463.3	487.3	514.8	604.1
60°	985.0	847.8	700.1	552.6	453.1	387.8	360.4	356.9	363.8	398.2	459.9
62.5°	772.3	659.0	542.3	422.2	339.8	312.3	278.0	274.6	281.4	302.0	350.1
65°	556.0	484.0	394.7	308.9	243.7	205.9	192.2	195.7	202.5	216.2	260.8
67.5°	387.8	336.3	274.6	216.2	168.2	151.0	137.3	133.9	137.3	161.3	185.3
70°	260.8	229.9	185.3	164.8	116.7	92.6	96.1	85.8	99.5	99.5	120.1
72.5°	171.6	151.0	123.5	96.1	82.4	65.3	65.3	61.8	68.6	72.1	89.3
75°	89.3	68.6	68.6	48.0	34.3	17.1	30.9	27.5	24.0	27.5	34.3
77.5°	61.8	51.5	48.0	37.8	34.3	27.5	27.5	27.5	27.5	30.9	34.3
80°	37.8	37.8	27.5	24.0	20.6	17.1	20.6	20.6	20.6	20.6	24.0
82.5°	24.0	20.6	20.6	17.1	17.1	13.7	13.7	13.7	13.7	13.7	20.6
85°	20.6	13.7	13.7	10.3	13.7	24.0	10.3	13.7	13.7	13.7	10.3
87.5°	6.9	10.3	10.3	10.3	6.9	3.4	6.9	10.3	10.3	17.1	13.7
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°	6394.2	6394.2	6394.2	6394.2	6394.2	6394.2	6394.2	6394.2	6394.2	6394.2	6394.2
2.5°	6404.6	6408.0	6408.0	6404.6	6404.6	6397.7	6411.4	6401.1	6404.6	6418.2	6408.0
5°	6411.4	6414.8	6414.8	6411.4	6411.4	6411.4	6414.8	6414.8	6411.4	6408.0	6414.8
7.5°	6425.1	6421.7	6421.7	6414.8	6414.8	6408.0	6414.8	6404.6	6411.4	6404.6	6414.8
10°	6408.0	6411.4	6408.0	6404.6	6404.6	6401.1	6401.1	6390.8	6394.2	6383.9	6390.8
12.5°	6397.7	6394.2	6394.2	6387.3	6380.5	6373.6	6370.2	6359.9	6359.9	6335.9	6346.2
15°	6370.2	6373.6	6363.3	6349.6	6342.7	6325.6	6318.7	6305.0	6291.3	6274.1	6277.6
17.5°	6346.2	6335.9	6322.2	6308.4	6280.9	6267.2	6253.5	6232.9	6226.0	6205.4	6198.6
20°	6274.1	6267.2	6250.1	6226.0	6208.9	6178.0	6164.3	6143.7	6126.5	6105.9	6095.6
22.5°	6181.4	6174.5	6154.0	6129.9	6102.5	6088.8	6075.0	6037.3	6020.1	5999.5	5996.1
25°	6064.8	6054.4	6033.9	6006.4	5992.6	5954.9	5941.1	5913.7	5906.9	5886.2	5882.9
27.5°	5886.2	5872.5	5848.5	5814.2	5790.1	5766.1	5752.4	5731.8	5725.0	5704.3	5701.0
30°	5618.6	5601.4	5553.3	5539.6	5498.4	5474.4	5474.4	5446.9	5450.4	5436.7	5436.7
32.5°	5196.4	5168.9	5131.2	5103.7	5076.2	5062.5	5062.5	5052.2	5059.1	5059.1	5066.0
35°	4636.9	4599.2	4578.6	4561.4	4561.4	4575.1	4616.3	4626.7	4647.3	4664.4	4678.2
37.5°	3919.6	3916.2	3940.2	3960.8	4012.3	4070.6	4142.7	4204.5	4262.8	4304.0	4345.2
40°	3143.9	3229.7	3298.4	3394.5	3473.4	3586.7	3717.1	3823.5	3923.0	3995.1	4070.6
42.5°	2454.0	2563.9	2708.0	2848.7	2989.5	3143.9	3315.6	3463.1	3593.5	3693.1	3772.0
45°	1911.7	2062.7	2237.8	2416.3	2598.2	2790.4	2968.9	3119.9	3257.2	3360.2	3439.1
47.5°	1541.1	1705.8	1904.9	2100.5	2306.5	2508.9	2708.0	2838.5	2951.7	3034.1	3106.2
50°	1273.3	1448.4	1657.8	1880.8	2086.8	2289.3	2460.9	2587.9	2680.6	2752.6	2797.2
52.5°	1064.0	1249.3	1472.4	1695.5	1901.4	2086.8	2241.3	2337.4	2412.9	2464.3	2505.5
55°	878.6	1057.2	1266.5	1475.9	1678.4	1853.4	1980.4	2052.5	2110.8	2141.7	2165.7
57.5°	717.4	882.1	1074.3	1266.5	1441.5	1585.7	1685.2	1757.3	1784.8	1808.8	1805.3
60°	562.9	717.4	892.4	1057.2	1208.1	1324.8	1396.9	1438.1	1458.7	1469.0	1462.1
62.5°	442.7	583.5	717.4	861.5	971.3	1070.8	1139.5	1139.5	1149.8	1153.2	1163.6
65°	329.5	435.9	552.6	659.0	748.2	813.4	851.2	861.5	875.2	871.8	864.9
67.5°	243.7	322.7	408.4	487.3	549.2	590.3	617.8	641.9	638.4	631.5	628.1
70°	168.2	219.7	295.2	343.2	387.8	429.1	435.9	439.3	442.7	446.2	439.3
72.5°	116.7	154.4	195.7	236.8	264.3	281.4	298.6	302.0	302.0	302.0	298.6
75°	58.4	78.9	116.7	133.9	157.9	164.8	178.5	178.5	188.8	175.0	171.6
77.5°	51.5	61.8	82.4	96.1	106.4	116.7	120.1	130.4	127.0	120.1	123.5
80°	30.9	37.8	51.5	58.4	72.1	75.5	78.9	82.4	78.9	82.4	82.4
82.5°	24.0	27.5	34.3	34.3	44.6	44.6	48.0	48.0	51.5	51.5	51.5
85°	13.7	24.0	20.6	41.2	27.5	27.5	34.3	41.2	34.3	34.3	41.2
87.5°	13.7	13.7	10.3	13.7	13.7	13.7	17.1	20.6	20.6	24.0	20.6
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: P249512

CATALOG NUMBER: LD8B175D010 ER8B1759730 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6394.2	6394.2	6394.2	6394.2
2.5°	6404.6	6411.4	6401.1	6397.7
5°	6414.8	6414.8	6408.0	6408.0
7.5°	6414.8	6414.8	6404.6	6397.7
10°	6387.3	6387.3	6377.1	6370.2
12.5°	6335.9	6335.9	6332.4	6322.2
15°	6270.7	6270.7	6256.9	6246.7
17.5°	6181.4	6188.3	6171.2	6171.2
20°	6085.3	6081.9	6068.2	6061.3
22.5°	5985.8	5978.9	5975.5	5954.9
25°	5879.4	5872.5	5862.2	5852.0
27.5°	5697.5	5694.1	5683.7	5670.1
30°	5419.5	5416.0	5402.3	5402.3
32.5°	5059.1	5055.7	5042.0	5045.4
35°	4685.0	4698.7	4691.8	4678.2
37.5°	4372.6	4383.0	4389.8	4383.0
40°	4111.8	4142.7	4146.1	4153.0
42.5°	3833.8	3875.0	3888.7	3895.5
45°	3500.8	3538.6	3569.5	3562.6
47.5°	3161.0	3188.5	3216.0	3195.4
50°	2835.0	2852.2	2862.5	2862.5
52.5°	2526.1	2526.1	2522.7	2526.1
55°	2172.6	2172.6	2158.9	2165.7
57.5°	1801.9	1808.8	1798.5	1781.3
60°	1458.7	1441.5	1434.6	1424.4
62.5°	1136.1	1136.1	1112.1	1142.9
65°	851.2	840.9	830.6	827.1
67.5°	617.8	614.4	604.1	600.6
70°	435.9	422.2	418.7	411.8
72.5°	291.7	291.7	284.9	284.9
75°	178.5	161.3	157.9	161.3
77.5°	123.5	120.1	120.1	116.7
80°	82.4	78.9	85.8	75.5
82.5°	51.5	54.9	51.5	54.9
85°	34.3	41.2	37.8	37.8
87.5°	20.6	20.6	20.6	20.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)