

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 ER8B175927 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 ER8B175927 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: 14562.0 lumens
Efficiency: N/A
Efficacy: 82.2 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

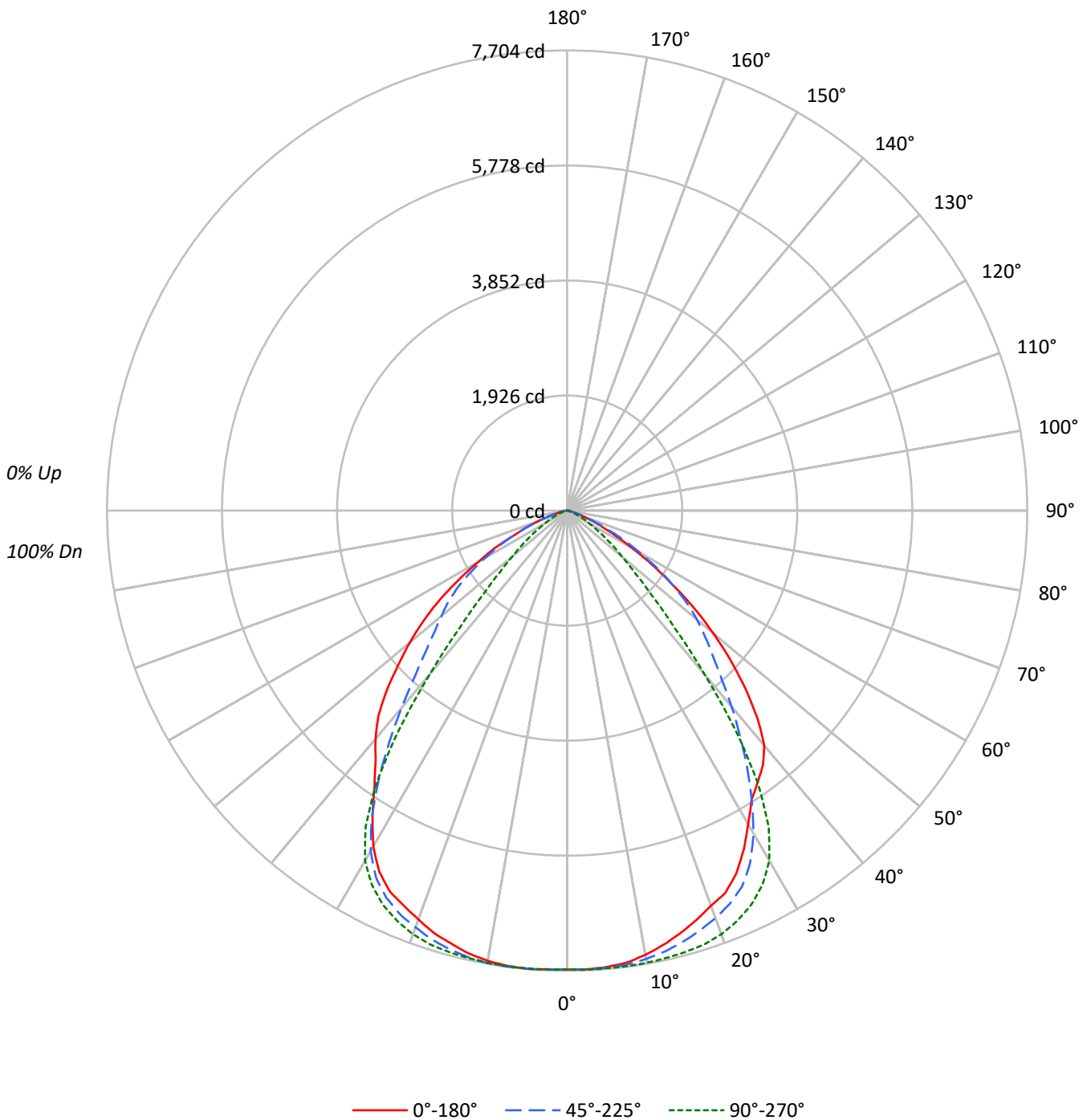
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	733.3	5.0
10°-20°	2129.5	14.6
20°-30°	3232.1	22.2
30°-40°	3394.7	23.3
40°-50°	2545.1	17.5
50°-60°	1633.0	11.2
60°-70°	698.6	4.8
70°-80°	165.0	1.1
80°-90°	30.7	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°	6094.9	41.9
0°-40°	9489.6	65.2
0°-60°	13667.7	93.9
0°-90°	14562.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14562.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7683	7683	7683	7683	7683	
5°	7671	7683	7692	7704	7700	729
15°	7324	7477	7650	7601	7506	2066
25°	6702	6937	7287	7155	7032	3062
35°	5559	5250	5563	5497	5621	3489
45°	4223	3452	1984	3353	4281	3234
55°	2136	2136	738	2227	2602	1938
65°	643	759	235	977	994	687
75°	99	115	33	198	194	144
85°	33	21	16	33	45	35
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°	7683.2	7683.2	7683.2	7683.2	7683.2	7683.2	7683.2	7683.2	7683.2	7683.2	7683.2
2.5°	7687.4	7695.6	7691.5	7691.5	7687.4	7691.5	7691.5	7699.7	7699.7	7691.5	7687.4
5°	7670.8	7679.0	7679.0	7670.8	7670.8	7691.5	7679.0	7687.4	7687.4	7683.2	7683.2
7.5°	7633.8	7633.8	7650.2	7637.8	7637.8	7650.2	7646.1	7654.4	7662.6	7666.8	7666.8
10°	7551.2	7559.4	7563.6	7563.6	7567.8	7580.0	7588.4	7604.9	7613.1	7621.3	7625.5
12.5°	7448.2	7460.4	7464.6	7460.4	7472.9	7489.4	7510.0	7530.6	7543.0	7559.4	7571.9
15°	7324.3	7324.3	7332.6	7345.0	7353.3	7378.1	7398.7	7423.3	7456.4	7477.1	7497.7
17.5°	7188.3	7196.6	7208.9	7208.9	7225.4	7266.6	7279.1	7316.2	7353.3	7373.9	7415.2
20°	7039.9	7048.1	7060.5	7068.7	7089.3	7122.4	7147.0	7180.1	7221.4	7258.5	7299.7
22.5°	6924.4	6908.0	6916.0	6924.4	6945.1	6973.9	7002.8	7044.0	7085.2	7122.4	7163.7
25°	6701.6	6705.8	6718.2	6726.4	6751.2	6775.9	6809.0	6858.3	6895.5	6936.8	6982.1
27.5°	6400.6	6404.7	6425.3	6425.3	6445.9	6487.2	6507.8	6549.1	6598.6	6639.8	6693.4
30°	6058.3	6066.6	6066.6	6083.1	6095.4	6116.1	6136.7	6177.9	6202.7	6239.8	6314.1
32.5°	5744.9	5753.1	5749.0	5744.9	5732.6	5728.4	5724.2	5732.6	5740.8	5753.1	5781.9
35°	5559.3	5538.6	5522.2	5493.4	5460.3	5419.1	5381.9	5332.5	5287.0	5249.9	5208.8
37.5°	5381.9	5377.8	5353.1	5311.8	5245.8	5171.6	5085.1	4977.8	4870.6	4755.0	4643.8
40°	5134.5	5122.1	5101.5	5043.8	4969.6	4878.8	4763.4	4631.4	4458.2	4280.8	4099.4
42.5°	4713.9	4717.9	4693.3	4647.8	4577.7	4491.1	4371.5	4227.2	4041.7	3831.3	3596.3
45°	4223.1	4223.1	4214.8	4177.7	4128.2	4058.1	3967.4	3847.8	3666.4	3451.8	3200.3
47.5°	3711.7	3715.8	3703.4	3695.2	3674.6	3629.2	3563.2	3472.5	3344.6	3138.4	2886.9
50°	3192.1	3192.1	3212.7	3208.5	3208.5	3192.1	3163.3	3109.5	2998.2	2833.2	2598.2
52.5°	2672.4	2680.6	2693.1	2709.6	2730.2	2763.1	2730.2	2705.4	2635.3	2507.4	2305.4
55°	2136.3	2144.6	2165.2	2194.0	2218.8	2251.8	2260.0	2260.0	2222.9	2136.3	1983.7
57.5°	1678.5	1666.1	1682.7	1707.4	1740.4	1773.3	1798.1	1827.0	1822.8	1765.1	1641.4
60°	1262.0	1266.1	1278.4	1303.2	1328.0	1356.9	1389.8	1414.6	1427.0	1398.1	1319.7
62.5°	919.7	919.7	936.1	960.9	973.2	1014.5	1035.1	1047.6	1059.9	1055.7	1006.3
65°	643.4	651.6	659.8	672.3	684.6	709.3	721.7	746.4	754.8	758.8	721.7
67.5°	453.7	441.2	449.6	457.8	470.1	486.7	511.4	511.4	523.7	523.7	499.0
70°	288.7	288.7	292.8	305.1	313.4	317.6	325.8	334.0	346.4	342.3	342.3
72.5°	193.8	189.7	193.8	198.0	202.2	214.4	214.4	218.6	226.8	231.0	214.4
75°	99.0	103.2	111.3	107.2	119.6	111.3	115.4	127.8	123.8	115.4	115.4
77.5°	82.5	82.5	82.5	78.4	86.6	86.6	82.5	90.7	86.6	86.6	82.5
80°	57.7	61.9	57.7	53.6	57.7	53.6	53.6	53.6	53.6	53.6	49.5
82.5°	45.4	37.1	41.3	37.1	41.3	41.3	37.1	33.0	33.0	37.1	33.0
85°	33.0	24.8	28.9	28.9	24.8	24.8	24.8	24.8	24.8	20.6	20.6
87.5°	20.6	12.4	12.4	12.4	16.4	16.4	16.4	12.4	16.4	16.4	8.3
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°	7683.2	7683.2	7683.2	7683.2	7683.2	7683.2	7683.2	7683.2	7683.2	7683.2	7683.2
2.5°	7695.6	7691.5	7699.7	7695.6	7695.6	7691.5	7695.6	7691.5	7699.7	7683.2	7687.4
5°	7695.6	7687.4	7691.5	7695.6	7699.7	7691.5	7691.5	7691.5	7699.7	7691.5	7695.6
7.5°	7679.0	7675.0	7687.4	7695.6	7691.5	7687.4	7695.6	7691.5	7699.7	7695.6	7703.8
10°	7646.1	7650.2	7658.4	7670.8	7675.0	7679.0	7687.4	7687.4	7699.7	7683.2	7691.5
12.5°	7596.6	7613.1	7633.8	7641.9	7658.4	7658.4	7666.8	7670.8	7679.0	7675.0	7687.4
15°	7534.8	7555.4	7580.0	7600.7	7621.3	7633.8	7646.1	7650.2	7662.6	7650.2	7654.4
17.5°	7460.4	7485.2	7522.3	7547.1	7580.0	7592.5	7608.9	7617.2	7629.6	7621.3	7625.5
20°	7357.4	7386.3	7427.5	7464.6	7485.2	7514.1	7534.8	7547.1	7555.4	7547.1	7551.2
22.5°	7213.0	7254.3	7307.9	7336.8	7378.1	7402.7	7406.9	7435.8	7456.4	7435.8	7444.0
25°	7044.0	7085.2	7126.4	7188.3	7225.4	7254.3	7283.1	7287.3	7307.9	7303.7	7299.7
27.5°	6763.5	6817.2	6887.2	6936.8	6986.2	7031.6	7064.7	7072.8	7093.5	7085.2	7089.3
30°	6380.0	6437.8	6503.7	6582.0	6652.2	6697.5	6738.8	6767.7	6788.2	6775.9	6771.8
32.5°	5835.6	5893.3	5963.5	6041.8	6124.4	6190.2	6239.8	6276.9	6301.7	6293.4	6272.8
35°	5212.9	5229.3	5274.8	5336.7	5406.6	5476.8	5522.2	5563.3	5592.3	5600.5	5600.5
37.5°	4573.7	4520.0	4487.1	4487.1	4528.2	4557.2	4598.3	4623.1	4668.5	4685.0	4697.3
40°	3954.9	3831.3	3715.8	3629.2	3571.5	3567.4	3567.4	3579.6	3620.9	3674.6	3724.1
42.5°	3402.3	3204.5	3027.2	2866.3	2750.8	2684.8	2655.9	2660.1	2693.1	2742.5	2825.0
45°	2961.1	2713.7	2491.0	2297.1	2140.4	2037.3	1987.9	1983.7	2008.5	2066.2	2157.0
47.5°	2618.8	2354.8	2103.3	1880.6	1711.6	1600.1	1542.4	1526.0	1542.4	1596.0	1703.2
50°	2334.3	2062.1	1802.2	1571.3	1389.8	1274.4	1220.7	1200.1	1220.7	1266.1	1373.3
52.5°	2070.2	1789.9	1546.5	1323.8	1130.0	1031.0	973.2	960.9	973.2	1026.9	1113.5
55°	1765.1	1526.0	1286.7	1064.0	894.9	795.9	750.6	738.2	750.6	800.1	890.9
57.5°	1464.1	1257.9	1047.6	845.4	701.1	614.5	573.3	556.8	585.6	618.5	725.8
60°	1183.6	1018.7	841.3	664.0	544.4	466.0	433.0	428.8	437.2	478.5	552.6
62.5°	928.0	791.9	651.6	507.3	408.3	375.3	334.0	330.0	338.2	362.9	420.6
65°	668.1	581.5	474.3	371.1	292.8	247.4	231.0	235.1	243.3	259.9	313.4
67.5°	466.0	404.1	330.0	259.9	202.2	181.5	165.0	160.9	165.0	193.8	222.8
70°	313.4	276.3	222.8	198.0	140.3	111.3	115.4	103.2	119.6	119.6	144.3
72.5°	206.2	181.5	148.4	115.4	99.0	78.4	78.4	74.2	82.5	86.6	107.2
75°	107.2	82.5	82.5	57.7	41.3	20.6	37.1	33.0	28.9	33.0	41.3
77.5°	74.2	61.9	57.7	45.4	41.3	33.0	33.0	33.0	33.0	37.1	41.3
80°	45.4	45.4	33.0	28.9	24.8	20.6	24.8	24.8	24.8	24.8	28.9
82.5°	28.9	24.8	24.8	20.6	20.6	16.4	16.4	16.4	16.4	16.4	24.8
85°	24.8	16.4	16.4	12.4	16.4	28.9	12.4	16.4	16.4	16.4	12.4
87.5°	8.3	12.4	12.4	12.4	8.3	4.2	8.3	12.4	12.4	20.6	16.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	7683.2	7683.2	7683.2	7683.2	7683.2	7683.2	7683.2	7683.2	7683.2	7683.2	7683.2
2.5°	7695.6	7699.7	7699.7	7695.6	7695.6	7687.4	7703.8	7691.5	7695.6	7712.1	7699.7
5°	7703.8	7707.9	7707.9	7703.8	7703.8	7703.8	7707.9	7707.9	7703.8	7699.7	7707.9
7.5°	7720.3	7716.2	7716.2	7707.9	7707.9	7699.7	7707.9	7695.6	7703.8	7695.6	7707.9
10°	7699.7	7703.8	7699.7	7695.6	7695.6	7691.5	7691.5	7679.0	7683.2	7670.8	7679.0
12.5°	7687.4	7683.2	7683.2	7675.0	7666.8	7658.4	7654.4	7641.9	7641.9	7613.1	7625.5
15°	7654.4	7658.4	7646.1	7629.6	7621.3	7600.7	7592.5	7576.0	7559.4	7538.8	7543.0
17.5°	7625.5	7613.1	7596.6	7580.0	7547.1	7530.6	7514.1	7489.4	7481.0	7456.4	7448.2
20°	7538.8	7530.6	7510.0	7481.0	7460.4	7423.3	7406.9	7382.1	7361.6	7336.8	7324.3
22.5°	7427.5	7419.3	7394.5	7365.6	7332.6	7316.2	7299.7	7254.3	7233.6	7208.9	7204.8
25°	7287.3	7274.9	7250.2	7217.2	7200.7	7155.3	7138.8	7105.8	7097.6	7072.8	7068.7
27.5°	7072.8	7056.3	7027.5	6986.2	6957.3	6928.5	6912.0	6887.2	6879.0	6854.2	6850.2
30°	6751.2	6730.5	6672.8	6656.3	6606.8	6577.9	6577.9	6544.9	6549.1	6532.7	6532.7
32.5°	6243.9	6210.9	6165.6	6132.5	6099.5	6083.1	6083.1	6070.6	6078.9	6078.9	6087.2
35°	5571.7	5526.3	5501.5	5480.9	5480.9	5497.4	5546.9	5559.3	5584.0	5604.6	5621.2
37.5°	4709.7	4705.7	4734.4	4759.2	4821.1	4891.2	4977.8	5052.0	5122.1	5171.6	5221.1
40°	3777.6	3880.8	3963.3	4078.8	4173.5	4309.7	4466.4	4594.3	4713.9	4800.5	4891.2
42.5°	2948.7	3080.7	3254.0	3422.9	3592.1	3777.6	3984.0	4161.3	4318.0	4437.6	4532.4
45°	2297.1	2478.6	2689.0	2903.4	3122.0	3353.0	3567.4	3748.8	3913.8	4037.5	4132.3
47.5°	1851.8	2049.6	2288.8	2523.9	2771.4	3014.7	3254.0	3410.7	3546.7	3645.7	3732.4
50°	1530.0	1740.4	1991.9	2260.0	2507.4	2750.8	2957.0	3109.5	3221.0	3307.5	3361.2
52.5°	1278.4	1501.1	1769.3	2037.3	2284.8	2507.4	2693.1	2808.6	2899.2	2961.1	3010.5
55°	1055.7	1270.2	1521.8	1773.3	2016.7	2226.9	2379.6	2466.2	2536.3	2573.4	2602.2
57.5°	862.0	1059.9	1290.8	1521.8	1732.2	1905.4	2025.0	2111.5	2144.6	2173.4	2169.2
60°	676.4	862.0	1072.2	1270.2	1451.7	1591.9	1678.5	1728.0	1752.8	1765.1	1756.8
62.5°	532.0	701.1	862.0	1035.1	1167.1	1286.7	1369.2	1369.2	1381.6	1385.7	1398.1
65°	395.9	523.7	664.0	791.9	899.0	977.4	1022.8	1035.1	1051.6	1047.6	1039.3
67.5°	292.8	387.7	490.7	585.6	659.8	709.3	742.3	771.3	767.1	758.8	754.8
70°	202.2	263.9	354.7	412.4	466.0	515.6	523.7	527.8	532.0	536.2	527.8
72.5°	140.3	185.6	235.1	284.5	317.6	338.2	358.9	362.9	362.9	362.9	358.9
75°	70.1	94.8	140.3	160.9	189.7	198.0	214.4	214.4	226.8	210.3	206.2
77.5°	61.9	74.2	99.0	115.4	127.8	140.3	144.3	156.7	152.5	144.3	148.4
80°	37.1	45.4	61.9	70.1	86.6	90.7	94.8	99.0	94.8	99.0	99.0
82.5°	28.9	33.0	41.3	41.3	53.6	53.6	57.7	57.7	61.9	61.9	61.9
85°	16.4	28.9	24.8	49.5	33.0	33.0	41.3	49.5	41.3	41.3	49.5
87.5°	16.4	16.4	12.4	16.4	16.4	16.4	20.6	24.8	24.8	28.9	24.8
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 ER8B175927 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7683.2	7683.2	7683.2	7683.2
2.5°	7695.6	7703.8	7691.5	7687.4
5°	7707.9	7707.9	7699.7	7699.7
7.5°	7707.9	7707.9	7695.6	7687.4
10°	7675.0	7675.0	7662.6	7654.4
12.5°	7613.1	7613.1	7608.9	7596.6
15°	7534.8	7534.8	7518.3	7505.9
17.5°	7427.5	7435.8	7415.2	7415.2
20°	7312.0	7307.9	7291.5	7283.1
22.5°	7192.5	7184.2	7180.1	7155.3
25°	7064.7	7056.3	7044.0	7031.6
27.5°	6846.1	6841.9	6829.5	6813.0
30°	6512.0	6507.8	6491.4	6491.4
32.5°	6078.9	6074.8	6058.3	6062.5
35°	5629.4	5645.9	5637.6	5621.2
37.5°	5254.1	5266.5	5274.8	5266.5
40°	4940.7	4977.8	4982.0	4990.2
42.5°	4606.7	4656.2	4672.7	4680.8
45°	4206.5	4251.9	4289.1	4280.8
47.5°	3798.2	3831.3	3864.3	3839.5
50°	3406.5	3427.1	3439.6	3439.6
52.5°	3035.4	3035.4	3031.2	3035.4
55°	2610.6	2610.6	2594.1	2602.2
57.5°	2165.2	2173.4	2161.0	2140.4
60°	1752.8	1732.2	1723.8	1711.6
62.5°	1365.1	1365.1	1336.3	1373.3
65°	1022.8	1010.4	998.0	993.8
67.5°	742.3	738.2	725.8	721.7
70°	523.7	507.3	503.1	494.9
72.5°	350.6	350.6	342.3	342.3
75°	214.4	193.8	189.7	193.8
77.5°	148.4	144.3	144.3	140.3
80°	99.0	94.8	103.2	90.7
82.5°	61.9	66.0	61.9	66.0
85°	41.3	49.5	45.4	45.4
87.5°	24.8	24.8	24.8	24.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)