

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: P249288

Luminaire Tested: **LD8B200D010 ER8B2009727 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249288
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: LD8B200D010 ER8B2009727 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: 15179.0 lumens
Efficiency: N/A
Efficacy: 68.0 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

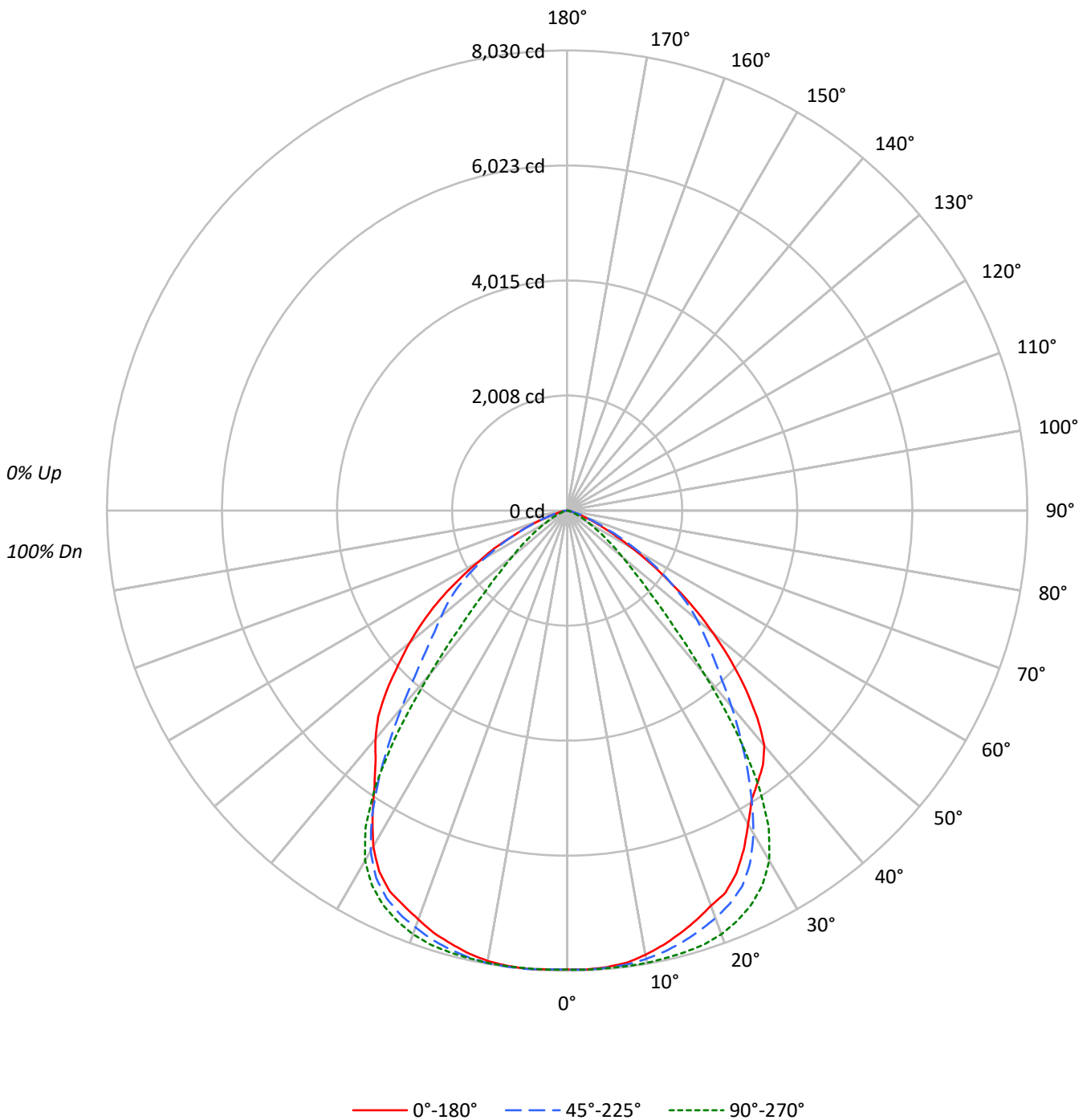
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	764.3	5.0
10°-20°	2219.7	14.6
20°-30°	3369.1	22.2
30°-40°	3538.5	23.3
40°-50°	2653.0	17.5
50°-60°	1702.2	11.2
60°-70°	728.2	4.8
70°-80°	172.0	1.1
80°-90°	32.0	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°	6353.1	41.9
0°-40°	9891.6	65.2
0°-60°	14246.8	93.9
0°-90°	15179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15179.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8009	8009	8009	8009	8009	
5°	7996	8009	8017	8030	8026	760
15°	7635	7794	7974	7923	7824	2153
25°	6986	7231	7596	7458	7330	3191
35°	5795	5472	5799	5730	5859	3637
45°	4402	3598	2068	3495	4462	3371
55°	2227	2227	770	2321	2712	2020
65°	671	791	245	1019	1036	716
75°	103	120	34	206	202	150
85°	34	22	17	34	47	36
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°	8008.7	8008.7	8008.7	8008.7	8008.7	8008.7	8008.7	8008.7	8008.7	8008.7	8008.7
2.5°	8013.1	8021.7	8017.4	8017.4	8013.1	8017.4	8017.4	8026.0	8026.0	8017.4	8013.1
5°	7995.8	8004.4	8004.4	7995.8	7995.8	8017.4	8004.4	8013.1	8013.1	8008.7	8008.7
7.5°	7957.2	7957.2	7974.3	7961.5	7961.5	7974.3	7970.0	7978.7	7987.3	7991.6	7991.6
10°	7871.2	7879.8	7884.1	7884.1	7888.4	7901.2	7909.9	7927.1	7935.6	7944.3	7948.6
12.5°	7763.8	7776.6	7780.9	7776.6	7789.5	7806.7	7828.2	7849.7	7862.6	7879.8	7892.7
15°	7634.7	7634.7	7643.3	7656.3	7664.9	7690.7	7712.1	7737.9	7772.3	7793.8	7815.3
17.5°	7492.9	7501.5	7514.4	7514.4	7531.6	7574.5	7587.5	7626.2	7664.9	7686.3	7729.4
20°	7338.2	7346.7	7359.6	7368.3	7389.7	7424.1	7449.9	7484.3	7527.3	7566.0	7608.9
22.5°	7217.7	7200.6	7209.1	7217.7	7239.3	7269.4	7299.5	7342.4	7385.4	7424.1	7467.1
25°	6985.6	6989.9	7002.8	7011.4	7037.2	7063.0	7097.4	7149.0	7187.7	7230.7	7277.9
27.5°	6671.8	6676.1	6697.6	6697.6	6719.1	6762.1	6783.5	6826.6	6878.2	6921.1	6977.1
30°	6315.0	6323.6	6323.6	6340.8	6353.6	6375.2	6396.7	6439.7	6465.5	6504.2	6581.6
32.5°	5988.3	5996.9	5992.5	5988.3	5975.4	5971.1	5966.8	5975.4	5984.0	5996.9	6026.9
35°	5794.9	5773.3	5756.2	5726.1	5691.7	5648.7	5610.0	5558.4	5511.1	5472.4	5429.5
37.5°	5610.0	5605.7	5579.9	5536.9	5468.1	5390.8	5300.5	5188.7	5076.9	4956.6	4840.5
40°	5352.1	5339.1	5317.7	5257.5	5180.1	5085.5	4965.2	4827.6	4647.0	4462.2	4273.1
42.5°	4913.5	4917.9	4892.1	4844.8	4771.8	4681.4	4556.8	4406.3	4212.9	3993.6	3748.6
45°	4402.0	4402.0	4393.4	4354.7	4303.1	4230.0	4135.5	4010.8	3821.7	3598.1	3335.9
47.5°	3868.9	3873.3	3860.3	3851.8	3830.2	3783.0	3714.2	3619.7	3486.4	3271.4	3009.2
50°	3327.3	3327.3	3348.8	3344.5	3344.5	3327.3	3297.3	3241.3	3125.3	2953.3	2708.3
52.5°	2785.6	2794.3	2807.2	2824.3	2845.8	2880.2	2845.8	2820.0	2746.9	2613.7	2403.1
55°	2226.8	2235.4	2256.9	2287.0	2312.8	2347.2	2355.7	2355.7	2317.0	2226.8	2067.7
57.5°	1749.7	1736.7	1754.0	1779.7	1814.1	1848.5	1874.3	1904.4	1900.1	1839.9	1711.0
60°	1315.5	1319.8	1332.6	1358.5	1384.2	1414.3	1448.7	1474.5	1487.4	1457.3	1375.6
62.5°	958.7	958.7	975.8	1001.6	1014.5	1057.5	1079.0	1091.9	1104.8	1100.5	1048.9
65°	670.7	679.2	687.8	700.7	713.6	739.4	752.3	778.1	786.7	791.0	752.3
67.5°	472.9	460.0	468.6	477.1	490.1	507.3	533.1	533.1	545.9	545.9	520.1
70°	300.9	300.9	305.2	318.1	326.7	331.0	339.6	348.2	361.1	356.8	356.8
72.5°	202.1	197.7	202.1	206.4	210.7	223.5	223.5	227.8	236.5	240.8	223.5
75°	103.2	107.5	116.0	111.8	124.6	116.0	120.3	133.3	129.0	120.3	120.3
77.5°	85.9	85.9	85.9	81.7	90.3	90.3	85.9	94.6	90.3	90.3	85.9
80°	60.2	64.5	60.2	55.9	60.2	55.9	55.9	55.9	55.9	55.9	51.5
82.5°	47.3	38.7	43.0	38.7	43.0	43.0	38.7	34.4	34.4	38.7	34.4
85°	34.4	25.8	30.1	30.1	25.8	25.8	25.8	25.8	25.8	21.5	21.5
87.5°	21.5	12.9	12.9	12.9	17.1	17.1	17.1	12.9	17.1	17.1	8.6
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°	8008.7	8008.7	8008.7	8008.7	8008.7	8008.7	8008.7	8008.7	8008.7	8008.7	8008.7
2.5°	8021.7	8017.4	8026.0	8021.7	8021.7	8017.4	8021.7	8017.4	8026.0	8008.7	8013.1
5°	8021.7	8013.1	8017.4	8021.7	8026.0	8017.4	8017.4	8017.4	8026.0	8017.4	8021.7
7.5°	8004.4	8000.1	8013.1	8021.7	8017.4	8013.1	8021.7	8017.4	8026.0	8021.7	8030.2
10°	7970.0	7974.3	7983.0	7995.8	8000.1	8004.4	8013.1	8013.1	8026.0	8008.7	8017.4
12.5°	7918.5	7935.6	7957.2	7965.7	7983.0	7983.0	7991.6	7995.8	8004.4	8000.1	8013.1
15°	7854.0	7875.5	7901.2	7922.8	7944.3	7957.2	7970.0	7974.3	7987.3	7974.3	7978.7
17.5°	7776.6	7802.4	7841.1	7866.8	7901.2	7914.2	7931.3	7939.9	7952.9	7944.3	7948.6
20°	7669.1	7699.3	7742.2	7780.9	7802.4	7832.4	7854.0	7866.8	7875.5	7866.8	7871.2
22.5°	7518.7	7561.7	7617.6	7647.6	7690.7	7716.4	7720.7	7750.8	7772.3	7750.8	7759.4
25°	7342.4	7385.4	7428.4	7492.9	7531.6	7561.7	7591.8	7596.1	7617.6	7613.2	7608.9
27.5°	7050.1	7106.0	7179.0	7230.7	7282.2	7329.6	7363.9	7372.5	7394.0	7385.4	7389.7
30°	6650.3	6710.5	6779.3	6861.0	6934.1	6981.3	7024.3	7054.4	7075.8	7063.0	7058.7
32.5°	6082.9	6143.1	6216.2	6297.8	6383.8	6452.5	6504.2	6542.9	6568.6	6560.0	6538.6
35°	5433.8	5450.9	5498.3	5562.7	5635.7	5708.9	5756.2	5799.1	5829.2	5837.8	5837.8
37.5°	4767.4	4711.6	4677.2	4677.2	4720.1	4750.2	4793.2	4819.0	4866.3	4883.5	4896.4
40°	4122.5	3993.6	3873.3	3783.0	3722.8	3718.5	3718.5	3731.4	3774.4	3830.2	3881.9
42.5°	3546.5	3340.2	3155.4	2987.7	2867.4	2798.6	2768.5	2772.8	2807.2	2858.7	2944.7
45°	3086.6	2828.7	2596.5	2394.4	2231.1	2123.6	2072.1	2067.7	2093.5	2153.7	2248.3
47.5°	2729.8	2454.6	2192.4	1960.2	1784.1	1667.9	1607.8	1590.6	1607.8	1663.6	1775.4
50°	2433.2	2149.5	1878.6	1637.8	1448.7	1328.4	1272.4	1251.0	1272.4	1319.8	1431.5
52.5°	2158.0	1865.7	1612.1	1379.9	1177.9	1074.7	1014.5	1001.6	1014.5	1070.4	1160.7
55°	1839.9	1590.6	1341.2	1109.1	932.9	829.7	782.4	769.5	782.4	834.0	928.6
57.5°	1526.1	1311.1	1091.9	881.2	730.8	640.5	597.6	580.3	610.4	644.8	756.6
60°	1233.7	1061.8	876.9	692.1	567.5	485.7	451.4	447.0	455.7	498.7	576.0
62.5°	967.3	825.4	679.2	528.8	425.6	391.2	348.2	344.0	352.5	378.3	438.5
65°	696.4	606.2	494.4	386.9	305.2	257.9	240.8	245.1	253.6	270.9	326.7
67.5°	485.7	421.3	344.0	270.9	210.7	189.1	172.0	167.7	172.0	202.1	232.1
70°	326.7	288.0	232.1	206.4	146.2	116.0	120.3	107.5	124.6	124.6	150.4
72.5°	214.9	189.1	154.7	120.3	103.2	81.7	81.7	77.4	85.9	90.3	111.8
75°	111.8	85.9	85.9	60.2	43.0	21.5	38.7	34.4	30.1	34.4	43.0
77.5°	77.4	64.5	60.2	47.3	43.0	34.4	34.4	34.4	34.4	38.7	43.0
80°	47.3	47.3	34.4	30.1	25.8	21.5	25.8	25.8	25.8	25.8	30.1
82.5°	30.1	25.8	25.8	21.5	21.5	17.1	17.1	17.1	17.1	17.1	25.8
85°	25.8	17.1	17.1	12.9	17.1	30.1	12.9	17.1	17.1	17.1	12.9
87.5°	8.6	12.9	12.9	12.9	8.6	4.3	8.6	12.9	12.9	21.5	17.1
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°	8008.7	8008.7	8008.7	8008.7	8008.7	8008.7	8008.7	8008.7	8008.7	8008.7	8008.7
2.5°	8021.7	8026.0	8026.0	8021.7	8021.7	8013.1	8030.2	8017.4	8021.7	8038.8	8026.0
5°	8030.2	8034.5	8034.5	8030.2	8030.2	8030.2	8034.5	8034.5	8030.2	8026.0	8034.5
7.5°	8047.4	8043.1	8043.1	8034.5	8034.5	8026.0	8034.5	8021.7	8030.2	8021.7	8034.5
10°	8026.0	8030.2	8026.0	8021.7	8021.7	8017.4	8017.4	8004.4	8008.7	7995.8	8004.4
12.5°	8013.1	8008.7	8008.7	8000.1	7991.6	7983.0	7978.7	7965.7	7965.7	7935.6	7948.6
15°	7978.7	7983.0	7970.0	7952.9	7944.3	7922.8	7914.2	7896.9	7879.8	7858.3	7862.6
17.5°	7948.6	7935.6	7918.5	7901.2	7866.8	7849.7	7832.4	7806.7	7798.1	7772.3	7763.8
20°	7858.3	7849.7	7828.2	7798.1	7776.6	7737.9	7720.7	7695.0	7673.4	7647.6	7634.7
22.5°	7742.2	7733.6	7707.8	7677.7	7643.3	7626.2	7608.9	7561.7	7540.1	7514.4	7510.1
25°	7596.1	7583.2	7557.4	7523.0	7505.7	7458.5	7441.3	7406.9	7398.3	7372.5	7368.3
27.5°	7372.5	7355.3	7325.2	7282.2	7252.1	7222.1	7204.9	7179.0	7170.5	7144.6	7140.4
30°	7037.2	7015.7	6955.5	6938.4	6886.7	6856.6	6856.6	6822.2	6826.6	6809.4	6809.4
32.5°	6508.5	6474.1	6426.7	6392.4	6358.0	6340.8	6340.8	6327.9	6336.5	6336.5	6345.1
35°	5807.7	5760.5	5734.6	5713.2	5713.2	5730.3	5782.0	5794.9	5820.7	5842.1	5859.4
37.5°	4909.2	4905.0	4935.1	4960.9	5025.4	5098.5	5188.7	5266.1	5339.1	5390.8	5442.3
40°	3937.7	4045.2	4131.2	4251.6	4350.4	4492.3	4655.6	4788.9	4913.5	5003.9	5098.5
42.5°	3073.6	3211.2	3391.8	3568.0	3744.3	3937.7	4152.7	4337.5	4500.9	4625.5	4724.4
45°	2394.4	2583.6	2802.9	3026.4	3254.2	3495.0	3718.5	3907.7	4079.6	4208.6	4307.5
47.5°	1930.2	2136.5	2385.8	2630.9	2888.8	3142.4	3391.8	3555.2	3697.0	3800.2	3890.5
50°	1594.8	1814.1	2076.4	2355.7	2613.7	2867.4	3082.3	3241.3	3357.4	3447.7	3503.5
52.5°	1332.6	1564.7	1844.2	2123.6	2381.5	2613.7	2807.2	2927.5	3022.1	3086.6	3138.1
55°	1100.5	1324.1	1586.3	1848.5	2102.1	2321.3	2480.4	2570.7	2643.7	2682.4	2712.5
57.5°	898.5	1104.8	1345.5	1586.3	1805.5	1986.1	2110.8	2201.0	2235.4	2265.5	2261.2
60°	705.1	898.5	1117.7	1324.1	1513.2	1659.3	1749.7	1801.2	1827.0	1839.9	1831.3
62.5°	554.5	730.8	898.5	1079.0	1216.6	1341.2	1427.3	1427.3	1440.1	1444.4	1457.3
65°	412.6	545.9	692.1	825.4	937.1	1018.8	1066.2	1079.0	1096.2	1091.9	1083.3
67.5°	305.2	404.1	511.5	610.4	687.8	739.4	773.7	803.9	799.6	791.0	786.7
70°	210.7	275.2	369.7	429.9	485.7	537.4	545.9	550.2	554.5	558.9	550.2
72.5°	146.2	193.4	245.1	296.6	331.0	352.5	374.0	378.3	378.3	378.3	374.0
75°	73.1	98.9	146.2	167.7	197.7	206.4	223.5	223.5	236.5	219.2	214.9
77.5°	64.5	77.4	103.2	120.3	133.3	146.2	150.4	163.4	159.0	150.4	154.7
80°	38.7	47.3	64.5	73.1	90.3	94.6	98.9	103.2	98.9	103.2	103.2
82.5°	30.1	34.4	43.0	43.0	55.9	55.9	60.2	60.2	64.5	64.5	64.5
85°	17.1	30.1	25.8	51.5	34.4	34.4	43.0	51.5	43.0	43.0	51.5
87.5°	17.1	17.1	12.9	17.1	17.1	17.1	21.5	25.8	25.8	30.1	25.8
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: P249288

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8008.7	8008.7	8008.7	8008.7
2.5°	8021.7	8030.2	8017.4	8013.1
5°	8034.5	8034.5	8026.0	8026.0
7.5°	8034.5	8034.5	8021.7	8013.1
10°	8000.1	8000.1	7987.3	7978.7
12.5°	7935.6	7935.6	7931.3	7918.5
15°	7854.0	7854.0	7836.8	7823.9
17.5°	7742.2	7750.8	7729.4	7729.4
20°	7621.9	7617.6	7600.4	7591.8
22.5°	7497.2	7488.6	7484.3	7458.5
25°	7363.9	7355.3	7342.4	7329.6
27.5°	7136.1	7131.8	7118.9	7101.7
30°	6787.8	6783.5	6766.4	6766.4
32.5°	6336.5	6332.2	6315.0	6319.3
35°	5867.9	5885.1	5876.5	5859.4
37.5°	5476.7	5489.6	5498.3	5489.6
40°	5150.0	5188.7	5193.0	5201.6
42.5°	4801.8	4853.4	4870.6	4879.1
45°	4384.8	4432.1	4470.8	4462.2
47.5°	3959.2	3993.6	4028.0	4002.2
50°	3550.9	3572.3	3585.3	3585.3
52.5°	3164.0	3164.0	3159.7	3164.0
55°	2721.2	2721.2	2704.0	2712.5
57.5°	2256.9	2265.5	2252.6	2231.1
60°	1827.0	1805.5	1796.9	1784.1
62.5°	1423.0	1423.0	1392.9	1431.5
65°	1066.2	1053.2	1040.3	1036.0
67.5°	773.7	769.5	756.6	752.3
70°	545.9	528.8	524.5	515.8
72.5°	365.4	365.4	356.8	356.8
75°	223.5	202.1	197.7	202.1
77.5°	154.7	150.4	150.4	146.2
80°	103.2	98.9	107.5	94.6
82.5°	64.5	68.8	64.5	68.8
85°	43.0	51.5	47.3	47.3
87.5°	25.8	25.8	25.8	25.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)