

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: P249620

Luminaire Tested: **LD8B175D010 ER8B175930 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249620
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 ER8B175930 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15179.4 lumens
Efficiency: N/A
Efficacy: 85.7 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

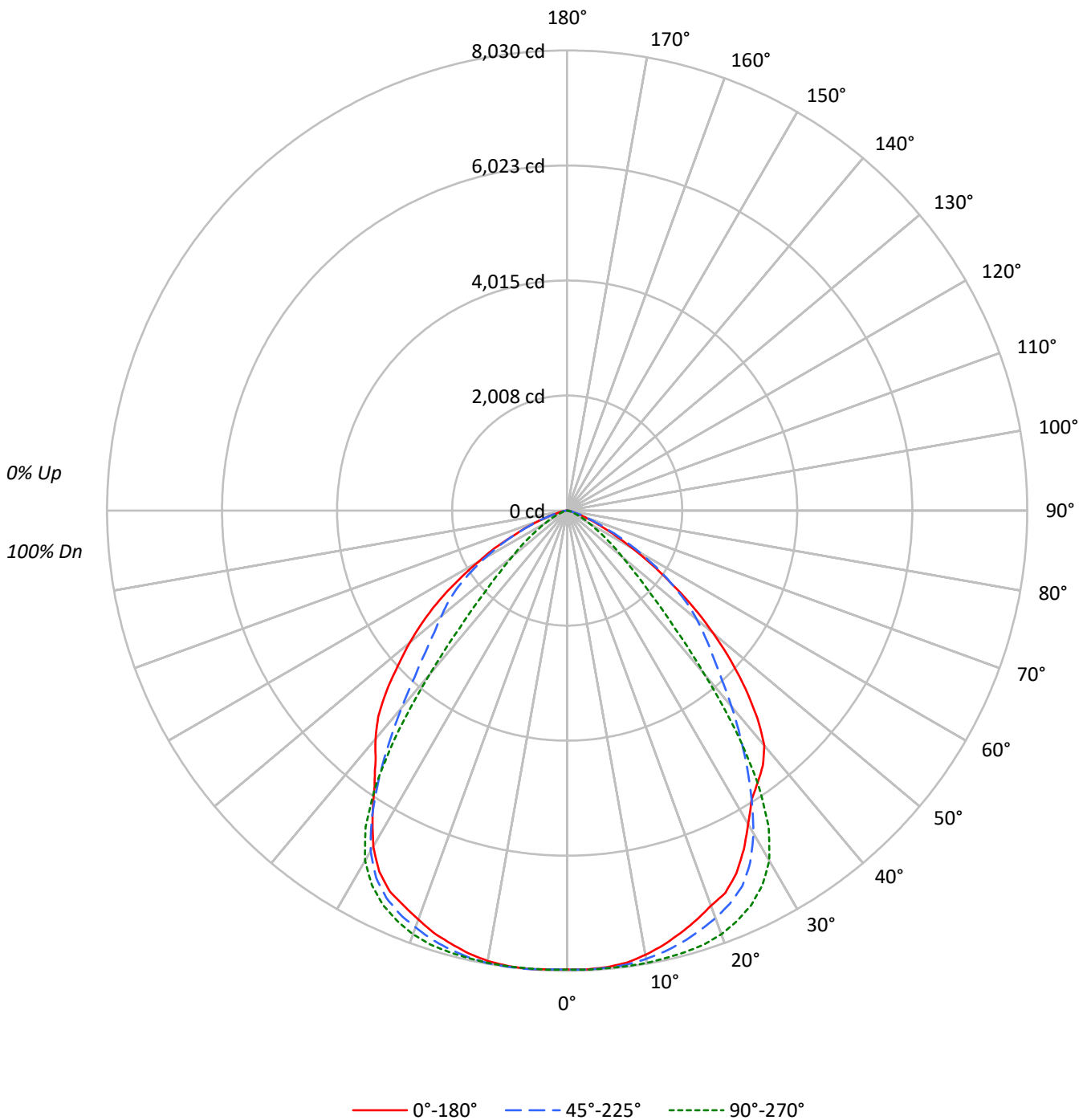
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	764.3	5.0
10°-20°	2219.8	14.6
20°-30°	3369.2	22.2
30°-40°	3538.6	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°	6353.3	41.9
0°-40°	9891.9	65.2
0°-60°	14247.2	93.9
0°-90°	15179.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15179.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8009	8009	8009	8009	8009	
5°	7996	8009	8018	8030	8026	760
15°	7635	7794	7975	7923	7824	2153
25°	6986	7231	7596	7459	7330	3191
35°	5795	5473	5799	5730	5860	3637
45°	4402	3598	2068	3495	4462	3371
55°	2227	2227	770	2321	2713	2020
65°	671	791	245	1019	1036	716
75°	103	120	34	206	202	150
85°	34	21	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°	8009.0	8009.0	8009.0	8009.0	8009.0	8009.0	8009.0	8009.0	8009.0	8009.0	8009.0
2.5°	8013.2	8021.9	8017.6	8017.6	8013.2	8017.6	8017.6	8026.2	8026.2	8017.6	8013.2
5°	7996.1	8004.7	8004.7	7996.1	7996.1	8017.6	8004.7	8013.2	8013.2	8009.0	8009.0
7.5°	7957.4	7957.4	7974.6	7961.8	7961.8	7974.6	7970.3	7978.9	7987.6	7991.8	7991.8
10°	7871.4	7880.1	7884.3	7884.3	7888.6	7901.5	7910.1	7927.4	7935.9	7944.5	7948.8
12.5°	7764.0	7776.8	7781.2	7776.8	7789.7	7806.9	7828.5	7849.9	7862.9	7880.1	7893.0
15°	7634.9	7634.9	7643.5	7656.5	7665.1	7690.8	7712.4	7738.2	7772.6	7794.1	7815.5
17.5°	7493.1	7501.7	7514.6	7514.6	7531.9	7574.7	7587.7	7626.4	7665.1	7686.6	7729.6
20°	7338.4	7346.9	7359.8	7368.4	7390.0	7424.4	7450.2	7484.5	7527.5	7566.2	7609.1
22.5°	7218.0	7200.9	7209.4	7218.0	7239.5	7269.6	7299.7	7342.7	7385.6	7424.4	7467.3
25°	6985.8	6990.1	7003.1	7011.6	7037.4	7063.2	7097.6	7149.2	7187.9	7230.9	7278.1
27.5°	6672.1	6676.3	6697.8	6697.8	6719.3	6762.3	6783.7	6826.8	6878.5	6921.3	6977.3
30°	6315.3	6323.8	6323.8	6341.0	6353.8	6375.4	6396.9	6439.9	6465.7	6504.4	6581.7
32.5°	5988.5	5997.0	5992.8	5988.5	5975.6	5971.2	5967.0	5975.6	5984.2	5997.0	6027.2
35°	5795.1	5773.5	5756.3	5726.3	5691.9	5648.8	5610.2	5558.6	5511.3	5472.6	5429.7
37.5°	5610.2	5605.8	5580.1	5537.1	5468.2	5390.9	5300.6	5188.9	5077.0	4956.7	4840.7
40°	5352.2	5339.3	5317.8	5257.7	5180.3	5085.6	4965.4	4827.7	4647.1	4462.4	4273.1
42.5°	4913.7	4918.1	4892.3	4844.8	4771.9	4681.5	4556.9	4406.4	4213.1	3993.7	3748.7
45°	4402.2	4402.2	4393.5	4354.9	4303.3	4230.2	4135.6	4010.9	3821.8	3598.2	3336.0
47.5°	3869.0	3873.4	3860.4	3851.9	3830.3	3783.2	3714.3	3619.7	3486.5	3271.5	3009.2
50°	3327.5	3327.5	3348.9	3344.6	3344.6	3327.5	3297.3	3241.4	3125.3	2953.4	2708.4
52.5°	2785.7	2794.3	2807.3	2824.5	2845.9	2880.3	2845.9	2820.1	2747.0	2613.7	2403.2
55°	2226.9	2235.5	2256.9	2287.1	2312.8	2347.3	2355.8	2355.8	2317.1	2226.9	2067.8
57.5°	1749.7	1736.8	1754.0	1779.8	1814.2	1848.6	1874.3	1904.5	1900.1	1840.0	1711.0
60°	1315.5	1319.8	1332.6	1358.5	1384.3	1414.4	1448.8	1474.6	1487.5	1457.4	1375.7
62.5°	958.7	958.7	975.8	1001.6	1014.5	1057.6	1079.1	1092.0	1104.7	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	459.9	468.6	477.1	490.1	507.4	533.1	533.1	545.9	545.9	520.1
70°	301.0	301.0	305.2	318.1	326.8	331.0	339.7	348.2	361.1	356.8	356.8
72.5°	202.1	197.7	202.1	206.4	210.6	223.5	223.5	227.8	236.4	240.8	223.5
75°	103.2	107.5	116.0	111.8	124.7	116.0	120.3	133.3	128.9	120.3	120.3
77.5°	86.0	86.0	86.0	81.7	90.2	90.2	86.0	94.6	90.2	90.2	86.0
80°	60.2	64.5	60.2	55.8	60.2	55.8	55.8	55.8	55.8	55.8	51.6
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	30.0	30.0	25.8	25.8	25.8	25.8	25.8	21.4	21.4
87.5°	21.4	12.9	12.9	12.9	17.2	17.2	17.2	12.9	17.2	17.2	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°	8009.0	8009.0	8009.0	8009.0	8009.0	8009.0	8009.0	8009.0	8009.0	8009.0	8009.0
2.5°	8021.9	8017.6	8026.2	8021.9	8021.9	8017.6	8021.9	8017.6	8026.2	8009.0	8013.2
5°	8021.9	8013.2	8017.6	8021.9	8026.2	8017.6	8017.6	8017.6	8026.2	8017.6	8021.9
7.5°	8004.7	8000.4	8013.2	8021.9	8017.6	8013.2	8021.9	8017.6	8026.2	8021.9	8030.4
10°	7970.3	7974.6	7983.2	7996.1	8000.4	8004.7	8013.2	8013.2	8026.2	8009.0	8017.6
12.5°	7918.7	7935.9	7957.4	7965.9	7983.2	7983.2	7991.8	7996.1	8004.7	8000.4	8013.2
15°	7854.3	7875.7	7901.5	7923.0	7944.5	7957.4	7970.3	7974.6	7987.6	7974.6	7978.9
17.5°	7776.8	7802.6	7841.3	7867.1	7901.5	7914.4	7931.5	7940.2	7953.2	7944.5	7948.8
20°	7669.3	7699.5	7742.4	7781.2	7802.6	7832.7	7854.3	7867.1	7875.7	7867.1	7871.4
22.5°	7518.9	7561.9	7617.8	7647.9	7690.8	7716.6	7721.0	7751.0	7772.6	7751.0	7759.7
25°	7342.7	7385.6	7428.6	7493.1	7531.9	7561.9	7592.0	7596.3	7617.8	7613.5	7609.1
27.5°	7050.3	7106.2	7179.2	7230.9	7282.5	7329.8	7364.2	7372.7	7394.2	7385.6	7390.0
30°	6650.4	6710.8	6779.6	6861.2	6934.3	6981.5	7024.5	7054.6	7076.1	7063.2	7058.9
32.5°	6083.1	6143.2	6216.4	6298.0	6384.0	6452.7	6504.4	6543.1	6568.8	6560.2	6538.8
35°	5433.9	5451.1	5498.4	5563.0	5635.9	5709.0	5756.3	5799.3	5829.3	5837.9	5837.9
37.5°	4767.6	4711.7	4677.4	4677.4	4720.2	4750.3	4793.4	4819.2	4866.5	4883.6	4896.5
40°	4122.7	3993.7	3873.4	3783.2	3723.0	3718.7	3718.7	3731.5	3774.5	3830.3	3882.0
42.5°	3546.6	3340.2	3155.5	2987.8	2867.4	2798.7	2768.5	2772.9	2807.3	2858.8	2944.8
45°	3086.7	2828.7	2596.6	2394.6	2231.1	2123.6	2072.2	2067.8	2093.6	2153.8	2248.4
47.5°	2729.9	2454.7	2192.5	1960.3	1784.1	1667.9	1607.9	1590.7	1607.9	1663.7	1775.4
50°	2433.2	2149.5	1878.7	1637.9	1448.8	1328.4	1272.4	1251.0	1272.4	1319.8	1431.5
52.5°	2158.0	1865.8	1612.1	1380.0	1177.9	1074.7	1014.5	1001.6	1014.5	1070.4	1160.8
55°	1840.0	1590.7	1341.3	1109.1	932.9	829.8	782.3	769.6	782.3	834.0	928.6
57.5°	1526.1	1311.2	1092.0	881.2	730.9	640.5	597.6	580.3	610.4	644.8	756.7
60°	1233.8	1061.9	877.0	692.1	567.5	485.7	451.3	447.1	455.7	498.7	576.0
62.5°	967.3	825.4	679.2	528.8	425.6	391.2	348.2	343.9	352.4	378.2	438.5
65°	696.5	606.2	494.4	386.9	305.2	257.9	240.8	245.1	253.6	270.8	326.8
67.5°	485.7	421.3	343.9	270.8	210.6	189.1	172.0	167.7	172.0	202.1	232.2
70°	326.8	288.0	232.2	206.4	146.2	116.0	120.3	107.5	124.7	124.7	150.4
72.5°	214.9	189.1	154.7	120.3	103.2	81.7	81.7	77.5	86.0	90.2	111.8
75°	111.8	86.0	86.0	60.2	43.0	21.4	38.7	34.4	30.0	34.4	43.0
77.5°	77.5	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	30.0	25.8	21.4	25.8	25.8	25.8	25.8	30.0
82.5°	30.0	25.8	25.8	21.4	21.4	17.2	17.2	17.2	17.2	17.2	25.8
85°	25.8	17.2	17.2	12.9	17.2	30.0	12.9	17.2	17.2	17.2	12.9
87.5°	8.6	12.9	12.9	12.9	8.6	4.3	8.6	12.9	12.9	21.4	17.2
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°	8009.0	8009.0	8009.0	8009.0	8009.0	8009.0	8009.0	8009.0	8009.0	8009.0	8009.0
2.5°	8021.9	8026.2	8026.2	8021.9	8021.9	8013.2	8030.4	8017.6	8021.9	8039.0	8026.2
5°	8030.4	8034.8	8034.8	8030.4	8030.4	8030.4	8034.8	8034.8	8030.4	8026.2	8034.8
7.5°	8047.7	8043.4	8043.4	8034.8	8034.8	8026.2	8034.8	8021.9	8030.4	8021.9	8034.8
10°	8026.2	8030.4	8026.2	8021.9	8021.9	8017.6	8017.6	8004.7	8009.0	7996.1	8004.7
12.5°	8013.2	8009.0	8009.0	8000.4	7991.8	7983.2	7978.9	7965.9	7965.9	7935.9	7948.8
15°	7978.9	7983.2	7970.3	7953.2	7944.5	7923.0	7914.4	7897.2	7880.1	7858.5	7862.9
17.5°	7948.8	7935.9	7918.7	7901.5	7867.1	7849.9	7832.7	7806.9	7798.2	7772.6	7764.0
20°	7858.5	7849.9	7828.5	7798.2	7776.8	7738.2	7721.0	7695.2	7673.7	7647.9	7634.9
22.5°	7742.4	7733.8	7708.0	7678.0	7643.5	7626.4	7609.1	7561.9	7540.4	7514.6	7510.3
25°	7596.3	7583.3	7557.7	7523.3	7506.0	7458.7	7441.5	7407.1	7398.6	7372.7	7368.4
27.5°	7372.7	7355.6	7325.5	7282.5	7252.3	7222.3	7205.1	7179.2	7170.7	7144.8	7140.7
30°	7037.4	7015.9	6955.7	6938.5	6887.0	6856.8	6856.8	6822.4	6826.8	6809.6	6809.6
32.5°	6508.6	6474.2	6426.9	6392.5	6358.2	6341.0	6341.0	6328.0	6336.7	6336.7	6345.3
35°	5807.9	5760.7	5734.8	5713.3	5713.3	5730.4	5782.1	5795.1	5820.8	5842.3	5859.6
37.5°	4909.4	4905.2	4935.2	4961.0	5025.6	5098.6	5188.9	5266.2	5339.3	5390.9	5442.5
40°	3937.8	4045.4	4131.3	4251.7	4350.5	4492.4	4655.7	4789.0	4913.7	5004.0	5098.6
42.5°	3073.8	3211.3	3391.9	3568.1	3744.4	3937.8	4152.9	4337.7	4501.0	4625.7	4724.6
45°	2394.6	2583.7	2802.9	3026.5	3254.4	3495.2	3718.7	3907.8	4079.8	4208.7	4307.6
47.5°	1930.2	2136.6	2385.9	2631.0	2888.9	3142.5	3391.9	3555.3	3697.1	3800.3	3890.7
50°	1594.8	1814.2	2076.4	2355.8	2613.7	2867.4	3082.3	3241.4	3357.5	3447.7	3503.7
52.5°	1332.6	1564.8	1844.3	2123.6	2381.6	2613.7	2807.3	2927.6	3022.2	3086.7	3138.2
55°	1100.5	1324.1	1586.3	1848.6	2102.2	2321.4	2480.4	2570.8	2643.8	2682.6	2712.6
57.5°	898.5	1104.7	1345.5	1586.3	1805.6	1986.2	2110.8	2201.1	2235.5	2265.5	2261.3
60°	705.1	898.5	1117.7	1324.1	1513.2	1659.3	1749.7	1801.2	1827.0	1840.0	1831.4
62.5°	554.6	730.9	898.5	1079.1	1216.6	1341.3	1427.3	1427.3	1440.1	1444.4	1457.4
65°	412.6	545.9	692.1	825.4	937.2	1018.9	1066.2	1079.1	1096.2	1092.0	1083.3
67.5°	305.2	404.1	511.5	610.4	687.8	739.4	773.8	804.0	799.6	791.0	786.7
70°	210.6	275.2	369.7	429.9	485.7	537.4	545.9	550.3	554.6	558.8	550.3
72.5°	146.2	193.5	245.1	296.6	331.0	352.4	374.1	378.2	378.2	378.2	374.1
75°	73.1	98.9	146.2	167.7	197.7	206.4	223.5	223.5	236.4	219.3	214.9
77.5°	64.5	77.5	103.2	120.3	133.3	146.2	150.4	163.3	159.1	150.4	154.7
80°	38.7	47.3	64.5	73.1	90.2	94.6	98.9	103.2	98.9	103.2	103.2
82.5°	30.0	34.4	43.0	43.0	55.8	55.8	60.2	60.2	64.5	64.5	64.5
85°	17.2	30.0	25.8	51.6	34.4	34.4	43.0	51.6	43.0	43.0	51.6
87.5°	17.2	17.2	12.9	17.2	17.2	17.2	21.4	25.8	25.8	30.0	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: P249620

CATALOG NUMBER: LD8B175D010 ER8B175930 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8009.0	8009.0	8009.0	8009.0
2.5°	8021.9	8030.4	8017.6	8013.2
5°	8034.8	8034.8	8026.2	8026.2
7.5°	8034.8	8034.8	8021.9	8013.2
10°	8000.4	8000.4	7987.6	7978.9
12.5°	7935.9	7935.9	7931.5	7918.7
15°	7854.3	7854.3	7837.0	7824.1
17.5°	7742.4	7751.0	7729.6	7729.6
20°	7622.1	7617.8	7600.6	7592.0
22.5°	7497.5	7488.8	7484.5	7458.7
25°	7364.2	7355.6	7342.7	7329.8
27.5°	7136.3	7132.0	7119.1	7102.0
30°	6788.1	6783.7	6766.6	6766.6
32.5°	6336.7	6332.4	6315.3	6319.5
35°	5868.1	5885.4	5876.7	5859.6
37.5°	5476.9	5489.8	5498.4	5489.8
40°	5150.2	5188.9	5193.1	5201.8
42.5°	4802.0	4853.5	4870.7	4879.3
45°	4384.9	4432.2	4471.0	4462.4
47.5°	3959.3	3993.7	4028.1	4002.3
50°	3551.0	3572.4	3585.4	3585.4
52.5°	3164.1	3164.1	3159.8	3164.1
55°	2721.2	2721.2	2704.1	2712.6
57.5°	2256.9	2265.5	2252.6	2231.1
60°	1827.0	1805.6	1797.0	1784.1
62.5°	1423.0	1423.0	1393.0	1431.5
65°	1066.2	1053.3	1040.3	1036.0
67.5°	773.8	769.6	756.7	752.3
70°	545.9	528.8	524.5	515.9
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	51.6	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)