

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: P249611

Luminaire Tested: **LD8B175D010 ER8B175927 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249611
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 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14397.8 lumens
Efficiency: N/A
Efficacy: 81.3 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

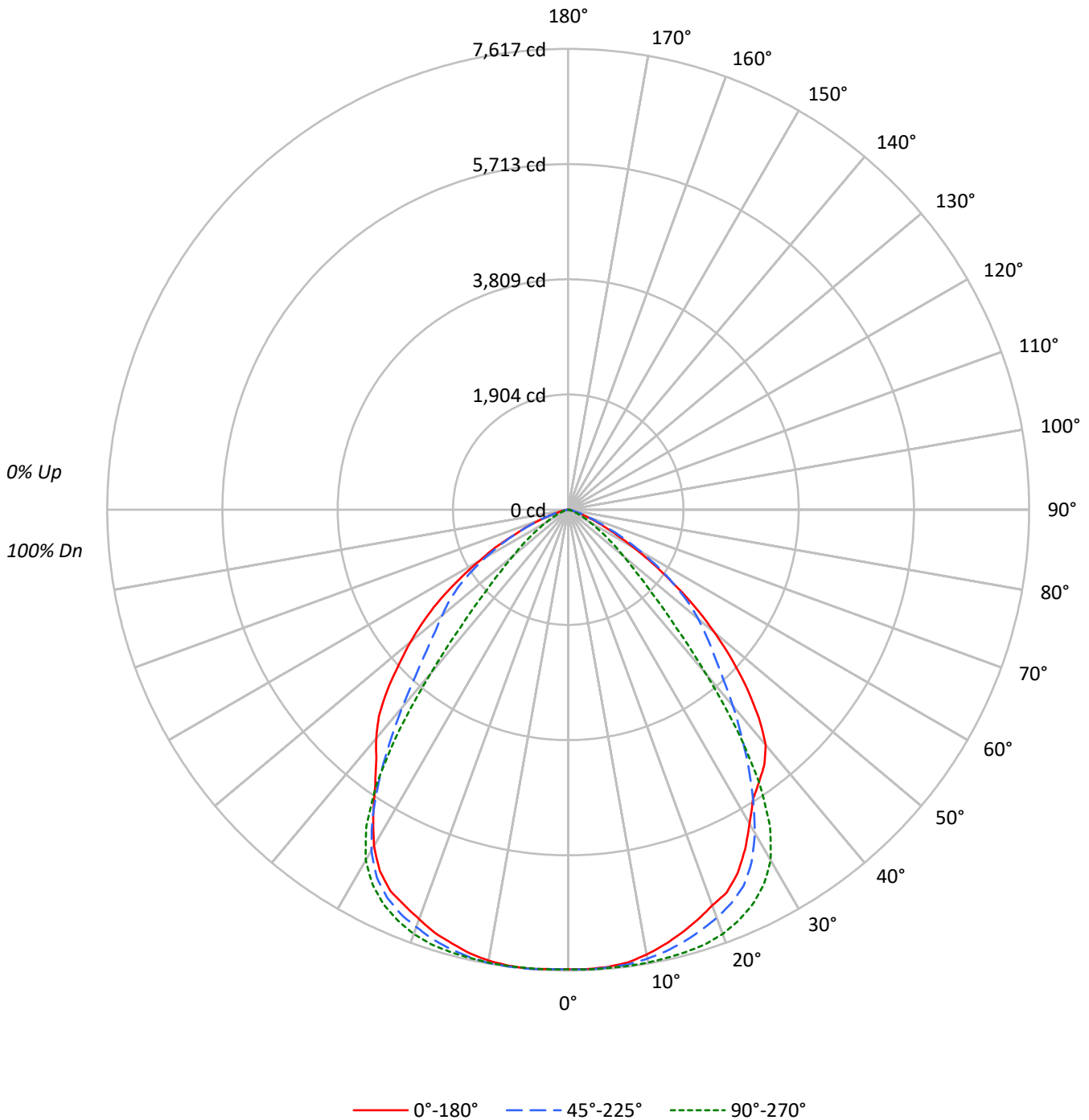
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	725.0	5.0
10°-20°	2105.4	14.6
20°-30°	3195.7	22.2
30°-40°	3356.4	23.3
40°-50°	2516.4	17.5
50°-60°	1614.6	11.2
60°-70°	690.7	4.8
70°-80°	163.2	1.1
80°-90°	30.4	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°	6026.1	41.9
0°-40°	9382.5	65.2
0°-60°	13513.5	93.9
0°-90°	14397.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14397.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7597	7597	7597	7597	7597	
5°	7584	7597	7605	7617	7613	720
15°	7242	7393	7564	7515	7421	2043
25°	6626	6859	7205	7075	6952	3027
35°	5497	5191	5501	5435	5558	3450
45°	4175	3413	1961	3315	4232	3198
55°	2112	2112	730	2202	2573	1916
65°	636	750	232	966	983	679
75°	98	114	33	196	192	143
85°	33	20	16	33	45	34
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°	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6
2.5°	7600.6	7608.8	7604.7	7604.7	7600.6	7604.7	7604.7	7612.9	7612.9	7604.7	7600.6
5°	7584.3	7592.4	7592.4	7584.3	7584.3	7604.7	7592.4	7600.6	7600.6	7596.6	7596.6
7.5°	7547.6	7547.6	7563.9	7551.8	7551.8	7563.9	7559.8	7568.0	7576.2	7580.2	7580.2
10°	7466.1	7474.2	7478.3	7478.3	7482.4	7494.5	7502.7	7519.2	7527.2	7535.4	7539.4
12.5°	7364.1	7376.3	7380.4	7376.3	7388.7	7404.9	7425.3	7445.7	7458.0	7474.2	7486.5
15°	7241.7	7241.7	7250.0	7262.2	7270.4	7294.8	7315.2	7339.6	7372.2	7392.7	7413.1
17.5°	7107.3	7115.4	7127.7	7127.7	7144.0	7184.7	7197.0	7233.6	7270.4	7290.8	7331.5
20°	6960.5	6968.6	6980.8	6989.1	7009.4	7042.0	7066.5	7099.1	7139.9	7176.6	7217.3
22.5°	6846.3	6830.0	6838.1	6846.3	6866.7	6895.2	6923.8	6964.5	7005.3	7042.0	7082.8
25°	6626.0	6630.2	6642.4	6650.6	6675.1	6699.5	6732.1	6781.0	6817.7	6858.6	6903.3
27.5°	6328.5	6332.5	6352.9	6352.9	6373.2	6414.1	6434.4	6475.2	6524.2	6564.9	6617.9
30°	5990.1	5998.0	5998.0	6014.5	6026.6	6047.1	6067.5	6108.2	6132.7	6169.4	6242.8
32.5°	5680.1	5688.2	5684.1	5680.1	5667.9	5663.7	5659.7	5667.9	5676.1	5688.2	5716.7
35°	5496.6	5476.2	5460.0	5431.4	5398.8	5357.9	5321.2	5272.3	5227.4	5190.8	5150.0
37.5°	5321.2	5317.2	5292.7	5252.0	5186.7	5113.3	5027.7	4921.7	4815.6	4701.5	4591.3
40°	5076.6	5064.3	5043.9	4986.9	4913.4	4823.8	4709.6	4579.1	4407.9	4232.5	4053.2
42.5°	4660.7	4664.7	4640.3	4595.4	4526.1	4440.5	4322.2	4179.6	3996.1	3788.0	3555.7
45°	4175.4	4175.4	4167.2	4130.6	4081.7	4012.3	3922.6	3804.4	3625.0	3412.9	3164.2
47.5°	3669.9	3673.9	3661.6	3653.6	3633.1	3588.3	3523.0	3433.4	3306.9	3103.0	2854.2
50°	3156.1	3156.1	3176.4	3172.4	3172.4	3156.1	3127.5	3074.5	2964.4	2801.2	2568.9
52.5°	2642.3	2650.4	2662.8	2679.0	2699.3	2732.0	2699.3	2674.9	2605.5	2479.2	2279.4
55°	2112.2	2120.4	2140.8	2169.2	2193.8	2226.4	2234.5	2234.5	2197.8	2112.2	1961.3
57.5°	1659.6	1647.3	1663.6	1688.2	1720.8	1753.4	1777.8	1806.4	1802.2	1745.2	1622.9
60°	1247.7	1251.8	1264.0	1288.6	1313.0	1341.6	1374.2	1398.6	1410.9	1382.3	1304.8
62.5°	909.3	909.3	925.5	950.1	962.3	1003.0	1023.4	1035.8	1047.9	1043.8	995.0
65°	636.2	644.2	652.4	664.6	676.8	701.3	713.6	738.0	746.2	750.3	713.6
67.5°	448.5	436.3	444.5	452.6	464.8	481.2	505.7	505.7	517.8	517.8	493.4
70°	285.4	285.4	289.6	301.7	309.9	314.0	322.2	330.3	342.6	338.4	338.4
72.5°	191.7	187.5	191.7	195.8	199.8	212.1	212.1	216.1	224.3	228.4	212.1
75°	97.9	101.9	110.0	106.1	118.2	110.0	114.2	126.4	122.3	114.2	114.2
77.5°	81.6	81.6	81.6	77.5	85.6	85.6	81.6	89.7	85.6	85.6	81.6
80°	57.0	61.2	57.0	53.0	57.0	53.0	53.0	53.0	53.0	53.0	48.9
82.5°	44.9	36.7	40.8	36.7	40.8	40.8	36.7	32.6	32.6	36.7	32.6
85°	32.6	24.4	28.6	28.6	24.4	24.4	24.4	24.4	24.4	20.4	20.4
87.5°	20.4	12.3	12.3	12.3	16.3	16.3	16.3	12.3	16.3	16.3	8.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6
2.5°	7608.8	7604.7	7612.9	7608.8	7608.8	7604.7	7608.8	7604.7	7612.9	7596.6	7600.6
5°	7608.8	7600.6	7604.7	7608.8	7612.9	7604.7	7604.7	7604.7	7612.9	7604.7	7608.8
7.5°	7592.4	7588.4	7600.6	7608.8	7604.7	7600.6	7608.8	7604.7	7612.9	7608.8	7616.9
10°	7559.8	7563.9	7572.0	7584.3	7588.4	7592.4	7600.6	7600.6	7612.9	7596.6	7604.7
12.5°	7511.0	7527.2	7547.6	7555.7	7572.0	7572.0	7580.2	7584.3	7592.4	7588.4	7600.6
15°	7449.8	7470.1	7494.5	7515.0	7535.4	7547.6	7559.8	7563.9	7576.2	7563.9	7568.0
17.5°	7376.3	7400.8	7437.5	7461.9	7494.5	7506.8	7523.1	7531.3	7543.6	7535.4	7539.4
20°	7274.4	7303.0	7343.7	7380.4	7400.8	7429.3	7449.8	7461.9	7470.1	7461.9	7466.1
22.5°	7131.7	7172.6	7225.5	7254.0	7294.8	7319.2	7323.4	7351.9	7372.2	7351.9	7360.1
25°	6964.5	7005.3	7046.1	7107.3	7144.0	7172.6	7201.0	7205.2	7225.5	7221.4	7217.3
27.5°	6687.2	6740.3	6809.5	6858.6	6907.4	6952.3	6984.9	6993.0	7013.5	7005.3	7009.4
30°	6308.0	6365.1	6430.4	6507.8	6577.2	6622.0	6662.8	6691.3	6711.6	6699.5	6695.4
32.5°	5769.8	5826.8	5896.2	5973.6	6055.3	6120.4	6169.4	6206.1	6230.6	6222.4	6202.0
35°	5154.1	5170.4	5215.3	5276.5	5345.7	5415.1	5460.0	5500.6	5529.2	5537.4	5537.4
37.5°	4522.0	4469.1	4436.4	4436.4	4477.2	4505.7	4546.5	4571.0	4615.9	4632.1	4644.3
40°	3910.4	3788.0	3673.9	3588.3	3531.3	3527.1	3527.1	3539.4	3580.1	3633.1	3682.1
42.5°	3364.0	3168.2	2993.0	2833.9	2719.8	2654.5	2626.0	2630.1	2662.8	2711.6	2793.2
45°	2927.7	2683.0	2462.8	2271.3	2116.2	2014.3	1965.4	1961.3	1985.7	2042.9	2132.7
47.5°	2589.3	2328.3	2079.6	1859.4	1692.2	1582.1	1525.0	1508.7	1525.0	1578.0	1684.0
50°	2307.9	2038.8	1781.9	1553.5	1374.2	1260.0	1206.9	1186.5	1206.9	1251.8	1357.8
52.5°	2046.9	1769.6	1529.1	1308.9	1117.2	1019.4	962.3	950.1	962.3	1015.3	1101.0
55°	1745.2	1508.7	1272.1	1052.0	884.9	787.1	742.1	729.9	742.1	791.1	880.8
57.5°	1447.5	1243.7	1035.8	835.9	693.2	607.5	566.8	550.5	578.9	611.6	717.6
60°	1170.2	1007.2	831.8	656.6	538.3	460.8	428.2	424.0	432.2	473.1	546.3
62.5°	917.6	782.9	644.2	501.5	403.7	371.0	330.3	326.2	334.3	358.8	415.9
65°	660.6	575.0	468.9	367.0	289.6	244.7	228.4	232.4	240.5	257.0	309.9
67.5°	460.8	399.6	326.2	257.0	199.8	179.4	163.1	159.1	163.1	191.7	220.2
70°	309.9	273.2	220.2	195.8	138.7	110.0	114.2	101.9	118.2	118.2	142.6
72.5°	203.8	179.4	146.8	114.2	97.9	77.5	77.5	73.5	81.6	85.6	106.1
75°	106.1	81.6	81.6	57.0	40.8	20.4	36.7	32.6	28.6	32.6	40.8
77.5°	73.5	61.2	57.0	44.9	40.8	32.6	32.6	32.6	32.6	36.7	40.8
80°	44.9	44.9	32.6	28.6	24.4	20.4	24.4	24.4	24.4	24.4	28.6
82.5°	28.6	24.4	24.4	20.4	20.4	16.3	16.3	16.3	16.3	16.3	24.4
85°	24.4	16.3	16.3	12.3	16.3	28.6	12.3	16.3	16.3	16.3	12.3
87.5°	8.2	12.3	12.3	12.3	8.2	4.0	8.2	12.3	12.3	20.4	16.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6
2.5°	7608.8	7612.9	7612.9	7608.8	7608.8	7600.6	7616.9	7604.7	7608.8	7625.0	7612.9
5°	7616.9	7621.0	7621.0	7616.9	7616.9	7616.9	7621.0	7621.0	7616.9	7612.9	7621.0
7.5°	7633.2	7629.2	7629.2	7621.0	7621.0	7612.9	7621.0	7608.8	7616.9	7608.8	7621.0
10°	7612.9	7616.9	7612.9	7608.8	7608.8	7604.7	7604.7	7592.4	7596.6	7584.3	7592.4
12.5°	7600.6	7596.6	7596.6	7588.4	7580.2	7572.0	7568.0	7555.7	7555.7	7527.2	7539.4
15°	7568.0	7572.0	7559.8	7543.6	7535.4	7515.0	7506.8	7490.5	7474.2	7453.9	7458.0
17.5°	7539.4	7527.2	7511.0	7494.5	7461.9	7445.7	7429.3	7404.9	7396.6	7372.2	7364.1
20°	7453.9	7445.7	7425.3	7396.6	7376.3	7339.6	7323.4	7298.9	7278.4	7254.0	7241.7
22.5°	7343.7	7335.6	7311.0	7282.6	7250.0	7233.6	7217.3	7172.6	7152.1	7127.7	7123.5
25°	7205.2	7192.9	7168.4	7135.8	7119.4	7074.7	7058.2	7025.6	7017.5	6993.0	6989.1
27.5°	6993.0	6976.8	6948.2	6907.4	6878.9	6850.4	6834.0	6809.5	6801.4	6776.9	6773.0
30°	6675.1	6654.6	6597.6	6581.2	6532.3	6503.7	6503.7	6471.1	6475.2	6459.0	6459.0
32.5°	6173.4	6140.8	6095.9	6063.3	6030.7	6014.5	6014.5	6002.2	6010.3	6010.3	6018.5
35°	5508.8	5464.0	5439.5	5419.1	5419.1	5435.3	5484.4	5496.6	5521.0	5541.4	5557.8
37.5°	4656.6	4652.6	4681.1	4705.5	4766.7	4836.0	4921.7	4995.1	5064.3	5113.3	5162.2
40°	3735.1	3837.0	3918.6	4032.8	4126.5	4261.0	4416.0	4542.4	4660.7	4746.4	4836.0
42.5°	2915.4	3045.9	3217.3	3384.3	3551.6	3735.1	3939.0	4114.3	4269.3	4387.5	4481.2
45°	2271.3	2450.6	2658.6	2870.7	3086.8	3315.2	3527.1	3706.5	3869.7	3992.0	4085.8
47.5°	1830.8	2026.6	2263.0	2495.5	2740.2	2980.7	3217.3	3372.2	3506.7	3604.6	3690.2
50°	1512.8	1720.8	1969.5	2234.5	2479.2	2719.8	2923.6	3074.5	3184.6	3270.3	3323.2
52.5°	1264.0	1484.2	1749.3	2014.3	2258.9	2479.2	2662.8	2776.8	2866.5	2927.7	2976.6
55°	1043.8	1256.0	1504.7	1753.4	1994.0	2201.8	2352.7	2438.4	2507.6	2544.4	2572.9
57.5°	852.3	1047.9	1276.3	1504.7	1712.6	1883.9	2002.2	2087.8	2120.4	2148.9	2144.8
60°	668.8	852.3	1060.2	1256.0	1435.3	1573.9	1659.6	1708.5	1733.0	1745.2	1737.0
62.5°	526.1	693.2	852.3	1023.4	1153.9	1272.1	1353.8	1353.8	1366.0	1370.0	1382.3
65°	391.4	517.8	656.6	782.9	888.9	966.4	1011.3	1023.4	1039.8	1035.8	1027.6
67.5°	289.6	383.3	485.2	578.9	652.4	701.3	733.9	762.5	758.5	750.3	746.2
70°	199.8	261.0	350.7	407.8	460.8	509.7	517.8	521.9	526.1	530.1	521.9
72.5°	138.7	183.5	232.4	281.4	314.0	334.3	354.8	358.8	358.8	358.8	354.8
75°	69.3	93.8	138.7	159.1	187.5	195.8	212.1	212.1	224.3	207.9	203.8
77.5°	61.2	73.5	97.9	114.2	126.4	138.7	142.6	154.9	150.9	142.6	146.8
80°	36.7	44.9	61.2	69.3	85.6	89.7	93.8	97.9	93.8	97.9	97.9
82.5°	28.6	32.6	40.8	40.8	53.0	53.0	57.0	57.0	61.2	61.2	61.2
85°	16.3	28.6	24.4	48.9	32.6	32.6	40.8	48.9	40.8	40.8	48.9
87.5°	16.3	16.3	12.3	16.3	16.3	16.3	20.4	24.4	24.4	28.6	24.4
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: P249611

CATALOG NUMBER: LD8B175D010 ER8B175927 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7596.6	7596.6	7596.6	7596.6
2.5°	7608.8	7616.9	7604.7	7600.6
5°	7621.0	7621.0	7612.9	7612.9
7.5°	7621.0	7621.0	7608.8	7600.6
10°	7588.4	7588.4	7576.2	7568.0
12.5°	7527.2	7527.2	7523.1	7511.0
15°	7449.8	7449.8	7433.4	7421.3
17.5°	7343.7	7351.9	7331.5	7331.5
20°	7229.6	7225.5	7209.2	7201.0
22.5°	7111.4	7103.1	7099.1	7074.7
25°	6984.9	6976.8	6964.5	6952.3
27.5°	6768.8	6764.7	6752.5	6736.2
30°	6438.5	6434.4	6418.1	6418.1
32.5°	6010.3	6006.3	5990.1	5994.1
35°	5565.8	5582.2	5574.0	5557.8
37.5°	5194.8	5207.1	5215.3	5207.1
40°	4885.0	4921.7	4925.7	4933.9
42.5°	4554.7	4603.6	4619.9	4628.0
45°	4159.1	4204.0	4240.7	4232.5
47.5°	3755.4	3788.0	3820.6	3796.2
50°	3368.1	3388.5	3400.8	3400.8
52.5°	3001.2	3001.2	2997.0	3001.2
55°	2581.1	2581.1	2564.9	2572.9
57.5°	2140.8	2148.9	2136.6	2116.2
60°	1733.0	1712.6	1704.4	1692.2
62.5°	1349.7	1349.7	1321.2	1357.8
65°	1011.3	999.0	986.7	982.7
67.5°	733.9	729.9	717.6	713.6
70°	517.8	501.5	497.5	489.3
72.5°	346.6	346.6	338.4	338.4
75°	212.1	191.7	187.5	191.7
77.5°	146.8	142.6	142.6	138.7
80°	97.9	93.8	101.9	89.7
82.5°	61.2	65.2	61.2	65.2
85°	40.8	48.9	44.9	44.9
87.5°	24.4	24.4	24.4	24.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)