

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: P249208

Luminaire Tested: **LD8B60D010 ER8B60835 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249208
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: LD8B60D010 ER8B60835 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6290.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

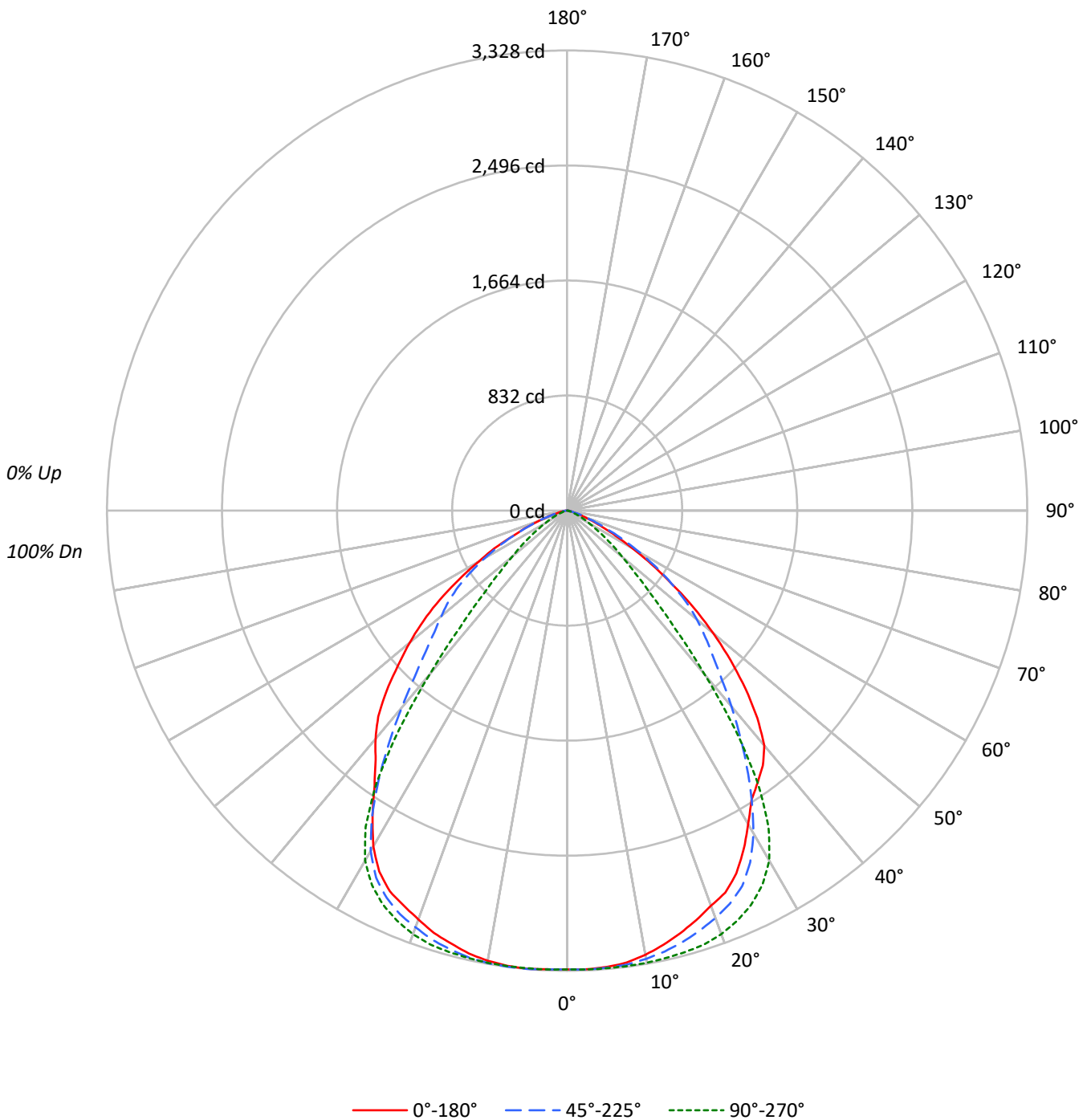
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	102336	102336	102336
5°	102563	102839	102950
10°	102130	103972	103527
15°	100998	105493	103501
20°	99788	106975	103234
25°	98493	107098	103341
30°	93179	104089	99838
35°	90395	90463	91404
40°	89275	62241	86767
45°	79547	37364	80638
50°	66145	24869	71273
55°	49611	17145	60428
60°	33618	11422	45595
65°	20277	7413	31324
70°	11243	4012	19276
75°	5099	1704	9972
80°	4422	1900	6961
85°	5059	2512	6935



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.7	5.0
10°-20°	919.8	14.6
20°-30°	1396.1	22.2
30°-40°	1466.3	23.3
40°-50°	1099.4	17.5
50°-60°	705.4	11.2
60°-70°	301.7	4.8
70°-80°	71.3	1.1
80°-90°	13.3	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°	2632.6	41.9
0°-40°	4099.0	65.2
0°-60°	5903.7	93.9
0°-90°	6290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6290.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3319	3319	3319	3319	3319	
5°	3313	3319	3322	3328	3326	315
15°	3164	3230	3304	3283	3242	892
25°	2895	2996	3148	3091	3037	1322
35°	2401	2268	2403	2375	2428	1507
45°	1824	1491	857	1448	1849	1397
55°	923	923	319	962	1124	837
65°	278	328	102	422	429	297
75°	43	50	14	86	84	62
85°	14	9	7	14	20	15
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°	3318.7	3318.7	3318.7	3318.7	3318.7	3318.7	3318.7	3318.7	3318.7	3318.7	3318.7
2.5°	3320.5	3324.1	3322.3	3322.3	3320.5	3322.3	3322.3	3325.9	3325.9	3322.3	3320.5
5°	3313.4	3316.9	3316.9	3313.4	3313.4	3322.3	3316.9	3320.5	3320.5	3318.7	3318.7
7.5°	3297.4	3297.4	3304.5	3299.2	3299.2	3304.5	3302.7	3306.3	3309.8	3311.6	3311.6
10°	3261.7	3265.3	3267.1	3267.1	3268.9	3274.2	3277.8	3284.9	3288.4	3292.0	3293.8
12.5°	3217.2	3222.5	3224.3	3222.5	3227.9	3235.0	3243.9	3252.8	3258.2	3265.3	3270.6
15°	3163.7	3163.7	3167.3	3172.7	3176.2	3186.9	3195.8	3206.5	3220.7	3229.7	3238.6
17.5°	3105.0	3108.5	3113.9	3113.9	3121.0	3138.8	3144.2	3160.2	3176.2	3185.1	3203.0
20°	3040.9	3044.4	3049.7	3053.3	3062.2	3076.5	3087.1	3101.4	3119.2	3135.3	3153.1
22.5°	2990.9	2983.8	2987.4	2990.9	2999.9	3012.3	3024.8	3042.6	3060.4	3076.5	3094.3
25°	2894.8	2896.5	2901.9	2905.4	2916.2	2926.8	2941.1	2962.4	2978.5	2996.3	3015.9
27.5°	2764.7	2766.5	2775.4	2775.4	2784.3	2802.1	2811.0	2828.8	2850.2	2868.0	2891.2
30°	2616.9	2620.4	2620.4	2627.6	2632.9	2641.8	2650.7	2668.5	2679.2	2695.2	2727.3
32.5°	2481.5	2485.0	2483.2	2481.5	2476.1	2474.3	2472.6	2476.1	2479.7	2485.0	2497.5
35°	2401.3	2392.4	2385.3	2372.8	2358.6	2340.7	2324.7	2303.4	2283.7	2267.7	2249.9
37.5°	2324.7	2322.9	2312.2	2294.4	2265.9	2233.9	2196.5	2150.1	2103.8	2053.9	2005.9
40°	2217.8	2212.5	2203.6	2178.6	2146.6	2107.4	2057.5	2000.5	1925.7	1849.1	1770.7
42.5°	2036.1	2037.9	2027.2	2007.6	1977.4	1939.9	1888.3	1825.9	1745.8	1654.9	1553.4
45°	1824.1	1824.1	1820.6	1804.5	1783.2	1752.9	1713.7	1662.0	1583.7	1491.0	1382.3
47.5°	1603.2	1605.0	1599.7	1596.1	1587.2	1567.6	1539.1	1499.9	1444.7	1355.6	1247.0
50°	1378.8	1378.8	1387.7	1385.9	1385.9	1378.8	1366.3	1343.2	1295.1	1223.8	1122.3
52.5°	1154.3	1157.9	1163.3	1170.4	1179.3	1193.5	1179.3	1168.6	1138.3	1083.1	995.8
55°	922.8	926.3	935.2	947.7	958.4	972.7	976.2	976.2	960.2	922.8	856.8
57.5°	725.0	719.7	726.8	737.5	751.8	766.0	776.7	789.2	787.4	762.4	709.0
60°	545.1	546.9	552.2	562.9	573.6	586.1	600.3	611.0	616.4	603.9	570.0
62.5°	397.3	397.3	404.4	415.0	420.4	438.2	447.1	452.5	457.8	456.0	434.7
65°	277.9	281.4	285.0	290.4	295.7	306.4	311.7	322.4	326.0	327.8	311.7
67.5°	196.0	190.6	194.2	197.7	203.1	210.2	220.9	220.9	226.2	226.2	215.5
70°	124.7	124.7	126.5	131.8	135.4	137.2	140.7	144.3	149.6	147.8	147.8
72.5°	83.7	81.9	83.7	85.5	87.3	92.6	92.6	94.4	98.0	99.8	92.6
75°	42.8	44.5	48.1	46.3	51.7	48.1	49.9	55.2	53.4	49.9	49.9
77.5°	35.6	35.6	35.6	33.9	37.4	37.4	35.6	39.2	37.4	37.4	35.6
80°	24.9	26.7	24.9	23.1	24.9	23.1	23.1	23.1	23.1	23.1	21.4
82.5°	19.6	16.0	17.8	16.0	17.8	17.8	16.0	14.3	14.3	16.0	14.3
85°	14.3	10.7	12.5	12.5	10.7	10.7	10.7	10.7	10.7	8.9	8.9
87.5°	8.9	5.4	5.4	5.4	7.1	7.1	7.1	5.4	7.1	7.1	3.6
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°	3318.7	3318.7	3318.7	3318.7	3318.7	3318.7	3318.7	3318.7	3318.7	3318.7	3318.7
2.5°	3324.1	3322.3	3325.9	3324.1	3324.1	3322.3	3324.1	3322.3	3325.9	3318.7	3320.5
5°	3324.1	3320.5	3322.3	3324.1	3325.9	3322.3	3322.3	3322.3	3325.9	3322.3	3324.1
7.5°	3316.9	3315.2	3320.5	3324.1	3322.3	3320.5	3324.1	3322.3	3325.9	3324.1	3327.6
10°	3302.7	3304.5	3308.0	3313.4	3315.2	3316.9	3320.5	3320.5	3325.9	3318.7	3322.3
12.5°	3281.3	3288.4	3297.4	3300.9	3308.0	3308.0	3311.6	3313.4	3316.9	3315.2	3320.5
15°	3254.6	3263.5	3274.2	3283.1	3292.0	3297.4	3302.7	3304.5	3309.8	3304.5	3306.3
17.5°	3222.5	3233.2	3249.2	3259.9	3274.2	3279.5	3286.6	3290.2	3295.6	3292.0	3293.8
20°	3178.0	3190.5	3208.3	3224.3	3233.2	3245.7	3254.6	3259.9	3263.5	3259.9	3261.7
22.5°	3115.7	3133.5	3156.6	3169.1	3186.9	3197.6	3199.4	3211.9	3220.7	3211.9	3215.4
25°	3042.6	3060.4	3078.3	3105.0	3121.0	3133.5	3145.9	3147.7	3156.6	3154.8	3153.1
27.5°	2921.5	2944.7	2974.9	2996.3	3017.7	3037.3	3051.5	3055.1	3064.0	3060.4	3062.2
30°	2755.8	2780.8	2809.3	2843.1	2873.4	2893.0	2910.8	2923.3	2932.1	2926.8	2925.0
32.5°	2520.7	2545.6	2575.9	2609.7	2645.4	2673.8	2695.2	2711.3	2722.0	2718.4	2709.5
35°	2251.7	2258.8	2278.4	2305.1	2335.4	2365.7	2385.3	2403.1	2415.5	2419.1	2419.1
37.5°	1975.6	1952.4	1938.2	1938.2	1956.0	1968.4	1986.3	1996.9	2016.5	2023.6	2029.0
40°	1708.3	1654.9	1605.0	1567.6	1542.7	1540.9	1540.9	1546.2	1564.1	1587.2	1608.6
42.5°	1469.6	1384.1	1307.5	1238.1	1188.2	1159.7	1147.2	1149.0	1163.3	1184.6	1220.2
45°	1279.0	1172.2	1076.0	992.2	924.5	880.0	858.6	856.8	867.5	892.5	931.7
47.5°	1131.2	1017.2	908.5	812.3	739.3	691.2	666.2	659.1	666.2	689.4	735.7
50°	1008.3	890.7	778.5	678.7	600.3	550.5	527.3	518.4	527.3	546.9	593.2
52.5°	894.2	773.1	668.0	571.8	488.1	445.3	420.4	415.0	420.4	443.5	481.0
55°	762.4	659.1	555.8	459.6	386.6	343.8	324.2	318.9	324.2	345.6	384.8
57.5°	632.4	543.3	452.5	365.2	302.8	265.4	247.6	240.5	252.9	267.2	313.5
60°	511.2	440.0	363.4	286.8	235.2	201.3	187.0	185.2	188.8	206.6	238.7
62.5°	400.8	342.0	281.4	219.1	176.4	162.1	144.3	142.5	146.1	156.7	181.7
65°	288.6	251.2	204.9	160.3	126.5	106.9	99.8	101.6	105.1	112.2	135.4
67.5°	201.3	174.6	142.5	112.2	87.3	78.4	71.3	69.5	71.3	83.7	96.2
70°	135.4	119.3	96.2	85.5	60.6	48.1	49.9	44.5	51.7	51.7	62.3
72.5°	89.1	78.4	64.1	49.9	42.8	33.9	33.9	32.1	35.6	37.4	46.3
75°	46.3	35.6	35.6	24.9	17.8	8.9	16.0	14.3	12.5	14.3	17.8
77.5°	32.1	26.7	24.9	19.6	17.8	14.3	14.3	14.3	14.3	16.0	17.8
80°	19.6	19.6	14.3	12.5	10.7	8.9	10.7	10.7	10.7	10.7	12.5
82.5°	12.5	10.7	10.7	8.9	8.9	7.1	7.1	7.1	7.1	7.1	10.7
85°	10.7	7.1	7.1	5.4	7.1	12.5	5.4	7.1	7.1	7.1	5.4
87.5°	3.6	5.4	5.4	5.4	3.6	1.8	3.6	5.4	5.4	8.9	7.1
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°	3318.7	3318.7	3318.7	3318.7	3318.7	3318.7	3318.7	3318.7	3318.7	3318.7	3318.7
2.5°	3324.1	3325.9	3325.9	3324.1	3324.1	3320.5	3327.6	3322.3	3324.1	3331.2	3325.9
5°	3327.6	3329.4	3329.4	3327.6	3327.6	3327.6	3329.4	3329.4	3327.6	3325.9	3329.4
7.5°	3334.8	3333.0	3333.0	3329.4	3329.4	3325.9	3329.4	3324.1	3327.6	3324.1	3329.4
10°	3325.9	3327.6	3325.9	3324.1	3324.1	3322.3	3322.3	3316.9	3318.7	3313.4	3316.9
12.5°	3320.5	3318.7	3318.7	3315.2	3311.6	3308.0	3306.3	3300.9	3300.9	3288.4	3293.8
15°	3306.3	3308.0	3302.7	3295.6	3292.0	3283.1	3279.5	3272.4	3265.3	3256.4	3258.2
17.5°	3293.8	3288.4	3281.3	3274.2	3259.9	3252.8	3245.7	3235.0	3231.4	3220.7	3217.2
20°	3256.4	3252.8	3243.9	3231.4	3222.5	3206.5	3199.4	3188.7	3179.8	3169.1	3163.7
22.5°	3208.3	3204.7	3194.0	3181.6	3167.3	3160.2	3153.1	3133.5	3124.5	3113.9	3112.1
25°	3147.7	3142.4	3131.7	3117.4	3110.3	3090.7	3083.6	3069.3	3065.8	3055.1	3053.3
27.5°	3055.1	3048.0	3035.5	3017.7	3005.2	2992.7	2985.6	2974.9	2971.4	2960.7	2958.9
30°	2916.2	2907.2	2882.3	2875.2	2853.8	2841.3	2841.3	2827.1	2828.8	2821.7	2821.7
32.5°	2697.0	2682.8	2663.2	2648.9	2634.7	2627.6	2627.6	2622.2	2625.8	2625.8	2629.3
35°	2406.7	2387.1	2376.4	2367.5	2367.5	2374.6	2396.0	2401.3	2412.0	2420.9	2428.1
37.5°	2034.3	2032.6	2045.0	2055.7	2082.4	2112.7	2150.1	2182.2	2212.5	2233.9	2255.2
40°	1631.8	1676.3	1711.9	1761.8	1802.7	1861.5	1929.2	1984.5	2036.1	2073.6	2112.7
42.5°	1273.7	1330.7	1405.5	1478.5	1551.6	1631.8	1720.8	1797.4	1865.1	1916.8	1957.7
45°	992.2	1070.6	1161.5	1254.1	1348.5	1448.3	1540.9	1619.3	1690.6	1744.0	1785.0
47.5°	799.8	885.4	988.7	1090.2	1197.1	1302.2	1405.5	1473.2	1532.0	1574.7	1612.2
50°	660.9	751.8	860.4	976.2	1083.1	1188.2	1277.3	1343.2	1391.3	1428.7	1451.8
52.5°	552.2	648.4	764.2	880.0	986.9	1083.1	1163.3	1213.1	1252.3	1279.0	1300.4
55°	456.0	548.7	657.3	766.0	871.1	961.9	1027.8	1065.3	1095.5	1111.6	1124.0
57.5°	372.3	457.8	557.6	657.3	748.2	823.0	874.7	912.1	926.3	938.8	937.0
60°	292.2	372.3	463.2	548.7	627.1	687.6	725.0	746.4	757.1	762.4	758.9
62.5°	229.8	302.8	372.3	447.1	504.1	555.8	591.4	591.4	596.8	598.5	603.9
65°	171.0	226.2	286.8	342.0	388.3	422.2	441.8	447.1	454.3	452.5	448.9
67.5°	126.5	167.5	212.0	252.9	285.0	306.4	320.6	333.1	331.4	327.8	326.0
70°	87.3	114.0	153.2	178.1	201.3	222.7	226.2	228.0	229.8	231.6	228.0
72.5°	60.6	80.2	101.6	122.9	137.2	146.1	155.0	156.7	156.7	156.7	155.0
75°	30.3	41.0	60.6	69.5	81.9	85.5	92.6	92.6	98.0	90.8	89.1
77.5°	26.7	32.1	42.8	49.9	55.2	60.6	62.3	67.7	65.9	62.3	64.1
80°	16.0	19.6	26.7	30.3	37.4	39.2	41.0	42.8	41.0	42.8	42.8
82.5°	12.5	14.3	17.8	17.8	23.1	23.1	24.9	24.9	26.7	26.7	26.7
85°	7.1	12.5	10.7	21.4	14.3	14.3	17.8	21.4	17.8	17.8	21.4
87.5°	7.1	7.1	5.4	7.1	7.1	7.1	8.9	10.7	10.7	12.5	10.7
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: P249208

CATALOG NUMBER: LD8B60D010 ER8B60835 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3318.7	3318.7	3318.7	3318.7
2.5°	3324.1	3327.6	3322.3	3320.5
5°	3329.4	3329.4	3325.9	3325.9
7.5°	3329.4	3329.4	3324.1	3320.5
10°	3315.2	3315.2	3309.8	3306.3
12.5°	3288.4	3288.4	3286.6	3281.3
15°	3254.6	3254.6	3247.5	3242.1
17.5°	3208.3	3211.9	3203.0	3203.0
20°	3158.4	3156.6	3149.5	3145.9
22.5°	3106.8	3103.2	3101.4	3090.7
25°	3051.5	3048.0	3042.6	3037.3
27.5°	2957.1	2955.3	2950.0	2942.9
30°	2812.8	2811.0	2803.9	2803.9
32.5°	2625.8	2624.0	2616.9	2618.7
35°	2431.6	2438.7	2435.2	2428.1
37.5°	2269.5	2274.8	2278.4	2274.8
40°	2134.1	2150.1	2151.9	2155.5
42.5°	1989.8	2011.2	2018.3	2021.9
45°	1817.0	1836.6	1852.7	1849.1
47.5°	1640.6	1654.9	1669.1	1658.5
50°	1471.4	1480.3	1485.7	1485.7
52.5°	1311.1	1311.1	1309.3	1311.1
55°	1127.6	1127.6	1120.5	1124.0
57.5°	935.2	938.8	933.4	924.5
60°	757.1	748.2	744.6	739.3
62.5°	589.7	589.7	577.2	593.2
65°	441.8	436.4	431.1	429.3
67.5°	320.6	318.9	313.5	311.7
70°	226.2	219.1	217.3	213.8
72.5°	151.4	151.4	147.8	147.8
75°	92.6	83.7	81.9	83.7
77.5°	64.1	62.3	62.3	60.6
80°	42.8	41.0	44.5	39.2
82.5°	26.7	28.5	26.7	28.5
85°	17.8	21.4	19.6	19.6
87.5°	10.7	10.7	10.7	10.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)