

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: P249109

Luminaire Tested: **LD8B60D010 ER8B60840 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249109
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 ER8B60840 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6282.0 lumens
Efficiency: N/A
Efficacy: 105.6 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

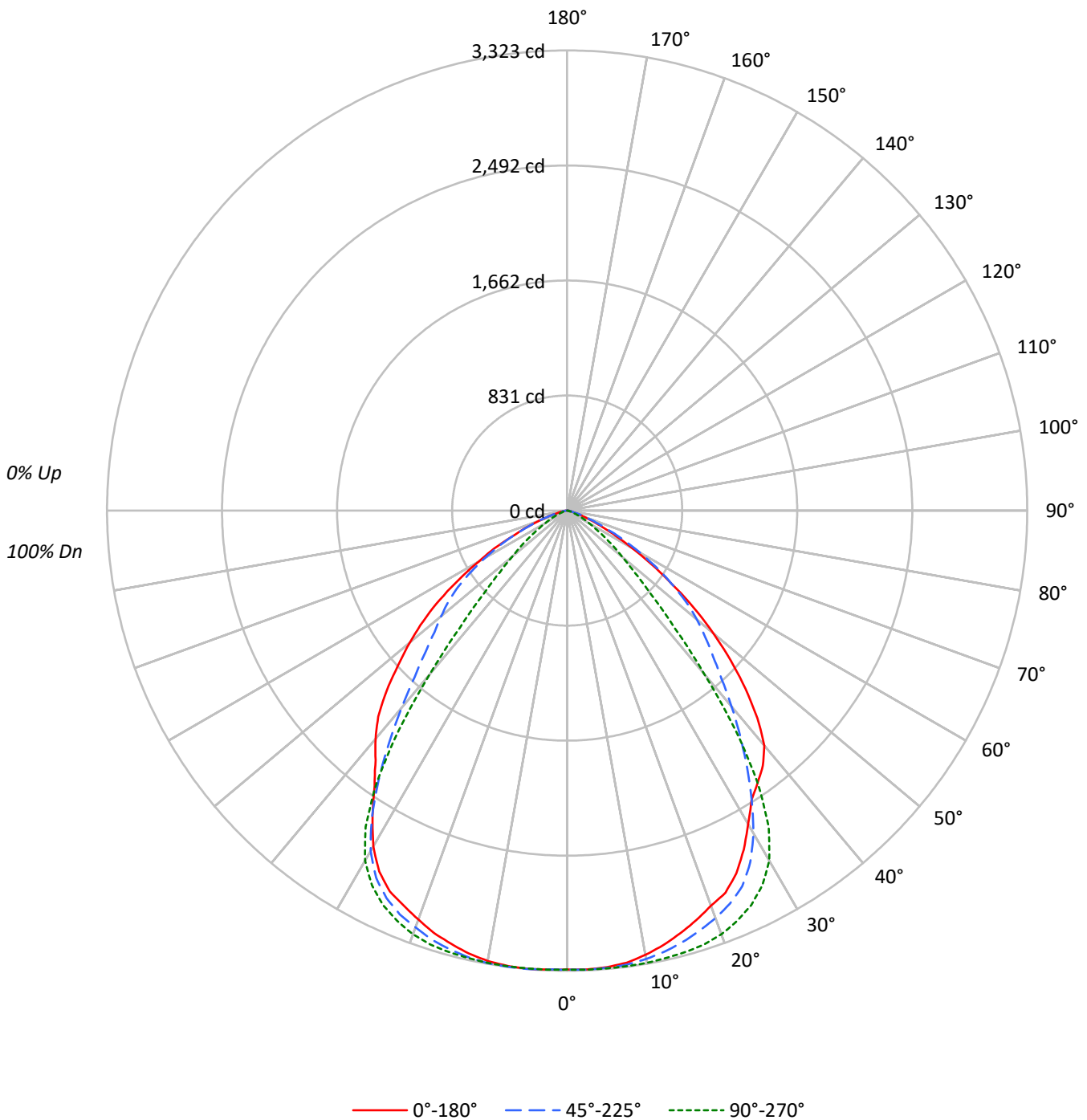
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	102207	102207	102207
5°	102433	102709	102817
10°	102002	103840	103395
15°	100871	105359	103370
20°	99660	106840	103102
25°	98367	106962	103209
30°	93058	103954	99709
35°	90282	90346	91287
40°	89162	62164	86659
45°	79447	37321	80533
50°	66063	24836	71182
55°	49547	17123	60353
60°	33575	11409	45539
65°	20255	7399	31287
70°	11225	4012	19249
75°	5087	1692	9960
80°	4422	1900	6943
85°	5024	2512	6935



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.3	5.0
10°-20°	918.6	14.6
20°-30°	1394.3	22.2
30°-40°	1464.5	23.3
40°-50°	1098.0	17.5
50°-60°	704.5	11.2
60°-70°	301.4	4.8
70°-80°	71.2	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°	2629.3	41.9
0°-40°	4093.8	65.2
0°-60°	5896.2	93.9
0°-90°	6282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6282.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3314	3314	3314	3314	3314	
5°	3309	3314	3318	3323	3322	314
15°	3160	3226	3300	3279	3238	891
25°	2891	2992	3144	3087	3033	1321
35°	2398	2265	2400	2372	2425	1505
45°	1822	1489	856	1446	1847	1395
55°	922	922	318	961	1123	836
65°	278	327	101	422	429	296
75°	43	50	14	85	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°	3314.5	3314.5	3314.5	3314.5	3314.5	3314.5	3314.5	3314.5	3314.5	3314.5	3314.5
2.5°	3316.3	3319.9	3318.1	3318.1	3316.3	3318.1	3318.1	3321.6	3321.6	3318.1	3316.3
5°	3309.2	3312.7	3312.7	3309.2	3309.2	3318.1	3312.7	3316.3	3316.3	3314.5	3314.5
7.5°	3293.2	3293.2	3300.3	3295.0	3295.0	3300.3	3298.5	3302.1	3305.6	3307.4	3307.4
10°	3257.6	3261.1	3262.9	3262.9	3264.7	3270.0	3273.6	3280.7	3284.3	3287.8	3289.6
12.5°	3213.1	3218.4	3220.2	3218.4	3223.8	3230.9	3239.8	3248.7	3254.0	3261.1	3266.5
15°	3159.7	3159.7	3163.3	3168.6	3172.2	3182.9	3191.7	3202.4	3216.6	3225.6	3234.5
17.5°	3101.0	3104.6	3109.9	3109.9	3117.0	3134.8	3140.2	3156.2	3172.2	3181.1	3198.9
20°	3037.0	3040.5	3045.9	3049.4	3058.3	3072.6	3083.2	3097.5	3115.3	3131.3	3149.0
22.5°	2987.1	2980.0	2983.6	2987.1	2996.1	3008.5	3021.0	3038.7	3056.5	3072.6	3090.4
25°	2891.1	2892.9	2898.2	2901.7	2912.4	2923.1	2937.3	2958.7	2974.7	2992.5	3012.0
27.5°	2761.2	2763.0	2771.9	2771.9	2780.8	2798.6	2807.4	2825.2	2846.6	2864.4	2887.5
30°	2613.5	2617.1	2617.1	2624.2	2629.5	2638.4	2647.3	2665.1	2675.8	2691.8	2723.9
32.5°	2478.3	2481.9	2480.1	2478.3	2473.0	2471.2	2469.4	2473.0	2476.6	2481.9	2494.3
35°	2398.3	2389.4	2382.3	2369.8	2355.6	2337.8	2321.8	2300.4	2280.8	2264.8	2247.1
37.5°	2321.8	2320.0	2309.3	2291.5	2263.0	2231.0	2193.7	2147.4	2101.1	2051.3	2003.3
40°	2215.0	2209.7	2200.8	2175.9	2143.8	2104.7	2054.9	1998.0	1923.2	1846.7	1768.5
42.5°	2033.5	2035.3	2024.6	2005.1	1974.8	1937.4	1885.9	1823.6	1743.6	1652.8	1551.4
45°	1821.8	1821.8	1818.3	1802.2	1780.9	1750.7	1711.5	1659.9	1581.7	1489.1	1380.6
47.5°	1601.2	1603.0	1597.6	1594.1	1585.2	1565.6	1537.2	1498.0	1442.9	1353.9	1245.4
50°	1377.1	1377.1	1385.9	1384.2	1384.2	1377.1	1364.6	1341.4	1293.4	1222.3	1120.9
52.5°	1152.9	1156.4	1161.8	1168.9	1177.8	1192.0	1177.8	1167.1	1136.8	1081.7	994.5
55°	921.6	925.1	934.0	946.5	957.2	971.4	975.0	975.0	958.9	921.6	855.8
57.5°	724.1	718.8	725.9	736.6	750.8	765.0	775.7	788.2	786.4	761.5	708.1
60°	544.4	546.2	551.5	562.2	572.9	585.3	599.6	610.2	615.6	603.1	569.3
62.5°	396.8	396.8	403.8	414.5	419.9	437.7	446.6	451.9	457.2	455.4	434.1
65°	277.6	281.1	284.7	290.0	295.3	306.0	311.3	322.0	325.6	327.4	311.3
67.5°	195.7	190.4	193.9	197.5	202.8	210.0	220.6	220.6	225.9	225.9	215.3
70°	124.5	124.5	126.3	131.6	135.2	137.0	140.6	144.1	149.4	147.7	147.7
72.5°	83.6	81.8	83.6	85.4	87.2	92.5	92.5	94.3	97.9	99.6	92.5
75°	42.7	44.5	48.0	46.3	51.6	48.0	49.8	55.2	53.4	49.8	49.8
77.5°	35.6	35.6	35.6	33.8	37.4	37.4	35.6	39.1	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	21.3
82.5°	19.6	16.0	17.8	16.0	17.8	17.8	16.0	14.2	14.2	16.0	14.2
85°	14.2	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°	3314.5	3314.5	3314.5	3314.5	3314.5	3314.5	3314.5	3314.5	3314.5	3314.5	3314.5
2.5°	3319.9	3318.1	3321.6	3319.9	3319.9	3318.1	3319.9	3318.1	3321.6	3314.5	3316.3
5°	3319.9	3316.3	3318.1	3319.9	3321.6	3318.1	3318.1	3318.1	3321.6	3318.1	3319.9
7.5°	3312.7	3310.9	3316.3	3319.9	3318.1	3316.3	3319.9	3318.1	3321.6	3319.9	3323.4
10°	3298.5	3300.3	3303.8	3309.2	3310.9	3312.7	3316.3	3316.3	3321.6	3314.5	3318.1
12.5°	3277.2	3284.3	3293.2	3296.7	3303.8	3303.8	3307.4	3309.2	3312.7	3310.9	3316.3
15°	3250.5	3259.4	3270.0	3278.9	3287.8	3293.2	3298.5	3300.3	3305.6	3300.3	3302.1
17.5°	3218.4	3229.1	3245.1	3255.8	3270.0	3275.4	3282.5	3286.0	3291.4	3287.8	3289.6
20°	3173.9	3186.4	3204.2	3220.2	3229.1	3241.5	3250.5	3255.8	3259.4	3255.8	3257.6
22.5°	3111.7	3129.5	3152.6	3165.1	3182.9	3193.5	3195.3	3207.8	3216.6	3207.8	3211.3
25°	3038.7	3056.5	3074.3	3101.0	3117.0	3129.5	3141.9	3143.7	3152.6	3150.8	3149.0
27.5°	2917.8	2940.9	2971.1	2992.5	3013.8	3033.4	3047.7	3051.2	3060.1	3056.5	3058.3
30°	2752.3	2777.2	2805.7	2839.5	2869.7	2889.3	2907.1	2919.5	2928.4	2923.1	2921.3
32.5°	2517.5	2542.4	2572.6	2606.4	2642.0	2670.4	2691.8	2707.8	2718.5	2714.9	2706.1
35°	2248.8	2255.9	2275.5	2302.2	2332.4	2362.7	2382.3	2400.0	2412.5	2416.0	2416.0
37.5°	1973.1	1949.9	1935.7	1935.7	1953.5	1965.9	1983.7	1994.4	2014.0	2021.1	2026.4
40°	1706.2	1652.8	1603.0	1565.6	1540.7	1539.0	1539.0	1544.3	1562.1	1585.2	1606.6
42.5°	1467.8	1382.4	1305.9	1236.5	1186.7	1158.2	1145.8	1147.6	1161.8	1183.1	1218.7
45°	1277.4	1170.7	1074.6	991.0	923.4	878.9	857.5	855.8	866.4	891.3	930.5
47.5°	1129.8	1015.9	907.3	811.3	738.4	690.3	665.4	658.3	665.4	688.5	734.8
50°	1007.0	889.6	777.5	677.8	599.6	549.8	526.6	517.7	526.6	546.2	592.4
52.5°	893.1	772.1	667.2	571.1	487.5	444.8	419.9	414.5	419.9	443.0	480.4
55°	761.5	658.3	555.1	459.0	386.1	343.4	323.8	318.5	323.8	345.2	384.3
57.5°	631.6	542.6	451.9	364.7	302.5	265.1	247.3	240.2	252.6	266.9	313.1
60°	510.6	439.5	362.9	286.4	234.9	201.0	186.8	185.0	188.6	206.4	238.4
62.5°	400.3	341.6	281.1	218.8	176.1	161.9	144.1	142.3	145.9	156.5	181.5
65°	288.2	250.9	204.6	160.1	126.3	106.7	99.6	101.4	105.0	112.1	135.2
67.5°	201.0	174.3	142.3	112.1	87.2	78.3	71.2	69.4	71.2	83.6	96.1
70°	135.2	119.2	96.1	85.4	60.5	48.0	49.8	44.5	51.6	51.6	62.3
72.5°	88.9	78.3	64.0	49.8	42.7	33.8	33.8	32.0	35.6	37.4	46.3
75°	46.3	35.6	35.6	24.9	17.8	8.9	16.0	14.2	12.5	14.2	17.8
77.5°	32.0	26.7	24.9	19.6	17.8	14.2	14.2	14.2	14.2	16.0	17.8
80°	19.6	19.6	14.2	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°	3314.5	3314.5	3314.5	3314.5	3314.5	3314.5	3314.5	3314.5	3314.5	3314.5	3314.5
2.5°	3319.9	3321.6	3321.6	3319.9	3319.9	3316.3	3323.4	3318.1	3319.9	3327.0	3321.6
5°	3323.4	3325.2	3325.2	3323.4	3323.4	3323.4	3325.2	3325.2	3323.4	3321.6	3325.2
7.5°	3330.5	3328.7	3328.7	3325.2	3325.2	3321.6	3325.2	3319.9	3323.4	3319.9	3325.2
10°	3321.6	3323.4	3321.6	3319.9	3319.9	3318.1	3318.1	3312.7	3314.5	3309.2	3312.7
12.5°	3316.3	3314.5	3314.5	3310.9	3307.4	3303.8	3302.1	3296.7	3296.7	3284.3	3289.6
15°	3302.1	3303.8	3298.5	3291.4	3287.8	3278.9	3275.4	3268.2	3261.1	3252.3	3254.0
17.5°	3289.6	3284.3	3277.2	3270.0	3255.8	3248.7	3241.5	3230.9	3227.3	3216.6	3213.1
20°	3252.3	3248.7	3239.8	3227.3	3218.4	3202.4	3195.3	3184.6	3175.7	3165.1	3159.7
22.5°	3204.2	3200.6	3190.0	3177.5	3163.3	3156.2	3149.0	3129.5	3120.6	3109.9	3108.1
25°	3143.7	3138.4	3127.7	3113.5	3106.3	3086.8	3079.7	3065.4	3061.9	3051.2	3049.4
27.5°	3051.2	3044.1	3031.6	3013.8	3001.4	2988.9	2981.8	2971.1	2967.6	2956.9	2955.1
30°	2912.4	2903.5	2878.6	2871.5	2850.1	2837.7	2837.7	2823.5	2825.2	2818.2	2818.2
32.5°	2693.6	2679.4	2659.8	2645.5	2631.3	2624.2	2624.2	2618.9	2622.4	2622.4	2626.0
35°	2403.6	2384.0	2373.3	2364.5	2364.5	2371.6	2392.9	2398.3	2408.9	2417.8	2425.0
37.5°	2031.7	2030.0	2042.4	2053.1	2079.8	2110.1	2147.4	2179.4	2209.7	2231.0	2252.4
40°	1629.7	1674.2	1709.7	1759.6	1800.5	1859.2	1926.8	1981.9	2033.5	2070.9	2110.1
42.5°	1272.1	1329.0	1403.7	1476.7	1549.6	1629.7	1718.7	1795.1	1862.7	1914.3	1955.3
45°	991.0	1069.2	1160.0	1252.5	1346.8	1446.4	1539.0	1617.2	1688.4	1741.8	1782.7
47.5°	798.8	884.2	987.4	1088.8	1195.6	1300.5	1403.7	1471.3	1530.0	1572.7	1610.1
50°	660.0	750.8	859.3	975.0	1081.7	1186.7	1275.6	1341.4	1389.5	1426.9	1450.0
52.5°	551.5	647.6	763.3	878.9	985.6	1081.7	1161.8	1211.6	1250.7	1277.4	1298.7
55°	455.4	548.0	656.5	765.0	870.0	960.7	1026.5	1063.9	1094.1	1110.2	1122.6
57.5°	371.9	457.2	556.9	656.5	747.2	822.0	873.6	910.9	925.1	937.6	935.8
60°	291.8	371.9	462.6	548.0	626.3	686.7	724.1	745.4	756.1	761.5	757.9
62.5°	229.5	302.5	371.9	446.6	503.5	555.1	590.7	590.7	596.0	597.8	603.1
65°	170.8	225.9	286.4	341.6	387.8	421.7	441.2	446.6	453.7	451.9	448.3
67.5°	126.3	167.3	211.7	252.6	284.7	306.0	320.2	332.7	330.9	327.4	325.6
70°	87.2	113.9	153.0	177.9	201.0	222.4	225.9	227.7	229.5	231.3	227.7
72.5°	60.5	80.1	101.4	122.8	137.0	145.9	154.8	156.5	156.5	156.5	154.8
75°	30.3	40.9	60.5	69.4	81.8	85.4	92.5	92.5	97.9	90.7	88.9
77.5°	26.7	32.0	42.7	49.8	55.2	60.5	62.3	67.6	65.8	62.3	64.0
80°	16.0	19.6	26.7	30.3	37.4	39.1	40.9	42.7	40.9	42.7	42.7
82.5°	12.5	14.2	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	21.3	14.2	14.2	17.8	21.3	17.8	17.8	21.3
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: P249109

CATALOG NUMBER: LD8B60D010 ER8B60840 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3314.5	3314.5	3314.5	3314.5
2.5°	3319.9	3323.4	3318.1	3316.3
5°	3325.2	3325.2	3321.6	3321.6
7.5°	3325.2	3325.2	3319.9	3316.3
10°	3310.9	3310.9	3305.6	3302.1
12.5°	3284.3	3284.3	3282.5	3277.2
15°	3250.5	3250.5	3243.3	3238.0
17.5°	3204.2	3207.8	3198.9	3198.9
20°	3154.4	3152.6	3145.5	3141.9
22.5°	3102.8	3099.2	3097.5	3086.8
25°	3047.7	3044.1	3038.7	3033.4
27.5°	2953.4	2951.6	2946.2	2939.1
30°	2809.2	2807.4	2800.3	2800.3
32.5°	2622.4	2620.6	2613.5	2615.3
35°	2428.5	2435.6	2432.1	2425.0
37.5°	2266.6	2272.0	2275.5	2272.0
40°	2131.4	2147.4	2149.2	2152.8
42.5°	1987.3	2008.6	2015.8	2019.3
45°	1814.7	1834.3	1850.3	1846.7
47.5°	1638.6	1652.8	1667.0	1656.4
50°	1469.6	1478.4	1483.8	1483.8
52.5°	1309.5	1309.5	1307.7	1309.5
55°	1126.2	1126.2	1119.1	1122.6
57.5°	934.0	937.6	932.2	923.4
60°	756.1	747.2	743.7	738.4
62.5°	588.9	588.9	576.5	592.4
65°	441.2	435.9	430.5	428.8
67.5°	320.2	318.5	313.1	311.3
70°	225.9	218.8	217.1	213.5
72.5°	151.2	151.2	147.7	147.7
75°	92.5	83.6	81.8	83.6
77.5°	64.0	62.3	62.3	60.5
80°	42.7	40.9	44.5	39.1
82.5°	26.7	28.5	26.7	28.5
85°	17.8	21.3	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)