

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: P249605

Luminaire Tested: **LD8B70D010 ER8B70927 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249605
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: LD8B70D010 ER8B70927 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: 5911.9 lumens
Efficiency: N/A
Efficacy: 77.9 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

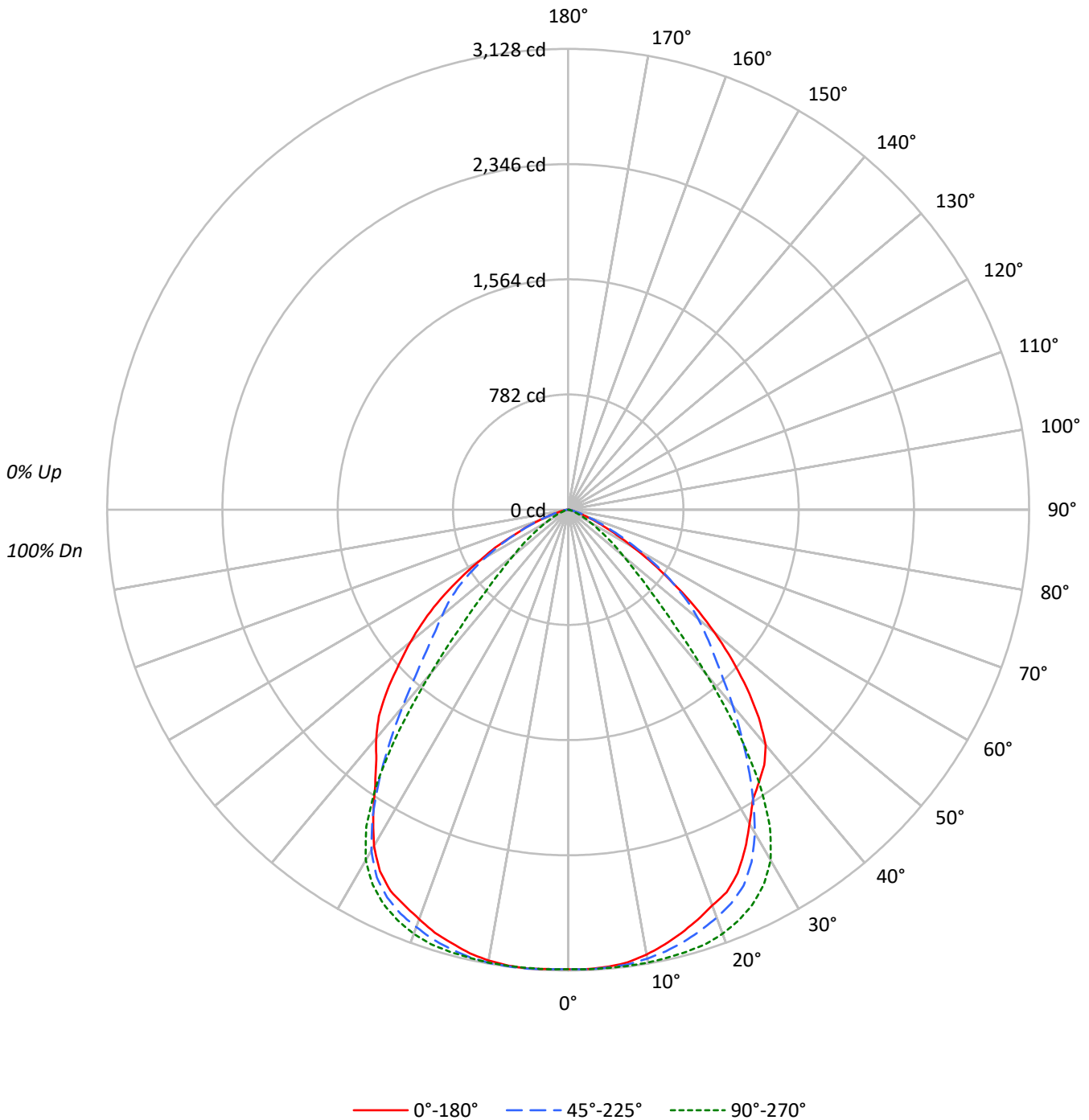
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	297.7	5.0
10°-20°	864.5	14.6
20°-30°	1312.2	22.2
30°-40°	1378.2	23.3
40°-50°	1033.3	17.5
50°-60°	663.0	11.2
60°-70°	283.6	4.8
70°-80°	67.0	1.1
80°-90°	12.4	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°	2474.4	41.9
0°-40°	3852.6	65.2
0°-60°	5548.8	93.9
0°-90°	5911.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5911.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3119	3119	3119	3119	3119	
5°	3114	3119	3122	3128	3126	296
15°	2974	3036	3106	3086	3047	839
25°	2721	2816	2958	2905	2855	1243
35°	2257	2131	2259	2232	2282	1417
45°	1714	1401	805	1361	1738	1313
55°	867	867	300	904	1056	787
65°	261	308	95	397	404	279
75°	40	47	13	80	79	59
85°	13	8	7	13	18	14
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°	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2
2.5°	3120.9	3124.2	3122.5	3122.5	3120.9	3122.5	3122.5	3125.9	3125.9	3122.5	3120.9
5°	3114.2	3117.5	3117.5	3114.2	3114.2	3122.5	3117.5	3120.9	3120.9	3119.2	3119.2
7.5°	3099.2	3099.2	3105.8	3100.8	3100.8	3105.8	3104.1	3107.5	3110.8	3112.5	3112.5
10°	3065.6	3069.0	3070.7	3070.7	3072.4	3077.3	3080.7	3087.5	3090.7	3094.1	3095.8
12.5°	3023.8	3028.8	3030.5	3028.8	3033.9	3040.5	3049.0	3057.3	3062.4	3069.0	3074.1
15°	2973.5	2973.5	2976.9	2981.9	2985.3	2995.3	3003.6	3013.8	3027.2	3035.5	3043.9
17.5°	2918.4	2921.6	2926.7	2926.7	2933.4	2950.1	2955.2	2970.2	2985.3	2993.6	3010.4
20°	2858.1	2861.3	2866.4	2869.8	2878.1	2891.5	2901.6	2915.0	2931.8	2946.8	2963.5
22.5°	2811.2	2804.5	2807.8	2811.2	2819.6	2831.3	2843.0	2859.6	2876.4	2891.5	2908.2
25°	2720.7	2722.4	2727.5	2730.8	2740.8	2750.8	2764.2	2784.4	2799.5	2816.2	2834.5
27.5°	2598.5	2600.2	2608.5	2608.5	2617.0	2633.6	2642.1	2658.8	2678.8	2695.6	2717.4
30°	2459.6	2462.8	2462.8	2469.6	2474.5	2483.0	2491.3	2508.1	2518.2	2533.3	2563.4
32.5°	2332.4	2335.6	2333.9	2332.4	2327.3	2325.6	2323.9	2327.3	2330.7	2335.6	2347.3
35°	2257.0	2248.5	2241.9	2230.2	2216.8	2200.0	2185.0	2164.8	2146.5	2131.4	2114.7
37.5°	2185.0	2183.3	2173.3	2156.5	2129.7	2099.6	2064.5	2020.8	1977.3	1930.5	1885.3
40°	2084.5	2079.5	2071.1	2047.7	2017.6	1980.7	1933.9	1880.2	1809.9	1737.9	1664.2
42.5°	1913.7	1915.4	1905.3	1887.0	1858.5	1823.3	1774.8	1716.2	1640.8	1555.4	1460.0
45°	1714.5	1714.5	1711.1	1696.0	1676.0	1647.6	1610.7	1562.2	1488.5	1401.4	1299.3
47.5°	1506.8	1508.5	1503.6	1500.2	1491.8	1473.4	1446.6	1409.7	1357.9	1274.2	1172.0
50°	1295.9	1295.9	1304.3	1302.6	1302.6	1295.9	1284.2	1262.4	1217.2	1150.2	1054.8
52.5°	1085.0	1088.3	1093.4	1100.0	1108.4	1121.7	1108.4	1098.3	1069.9	1018.0	935.9
55°	867.3	870.6	879.0	890.7	900.8	914.2	917.6	917.6	902.5	867.3	805.4
57.5°	681.4	676.5	683.1	693.2	706.6	720.0	730.0	741.7	740.0	716.6	666.3
60°	512.3	514.0	519.0	529.1	539.1	550.8	564.3	574.3	579.4	567.6	535.7
62.5°	373.4	373.4	380.0	390.0	395.1	411.9	420.3	425.2	430.3	428.6	408.5
65°	261.2	264.5	267.9	272.9	277.9	288.0	293.0	303.1	306.4	308.0	293.0
67.5°	184.2	179.1	182.5	185.8	190.9	197.5	207.7	207.7	212.6	212.6	202.6
70°	117.2	117.2	118.9	123.9	127.2	128.9	132.3	135.6	140.6	138.9	138.9
72.5°	78.8	77.1	78.8	80.3	82.0	87.1	87.1	88.8	92.1	93.8	87.1
75°	40.2	41.8	45.2	43.5	48.6	45.2	46.9	51.9	50.2	46.9	46.9
77.5°	33.5	33.5	33.5	31.8	35.1	35.1	33.5	36.8	35.1	35.1	33.5
80°	23.4	25.1	23.4	21.7	23.4	21.7	21.7	21.7	21.7	21.7	20.0
82.5°	18.4	15.1	16.8	15.1	16.8	16.8	15.1	13.4	13.4	15.1	13.4
85°	13.4	10.0	11.7	11.7	10.0	10.0	10.0	10.0	10.0	8.3	8.3
87.5°	8.3	5.1	5.1	5.1	6.6	6.6	6.6	5.1	6.6	6.6	3.4
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: P249605

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2
2.5°	3124.2	3122.5	3125.9	3124.2	3124.2	3122.5	3124.2	3122.5	3125.9	3119.2	3120.9
5°	3124.2	3120.9	3122.5	3124.2	3125.9	3122.5	3122.5	3122.5	3125.9	3122.5	3124.2
7.5°	3117.5	3115.9	3120.9	3124.2	3122.5	3120.9	3124.2	3122.5	3125.9	3124.2	3127.6
10°	3104.1	3105.8	3109.2	3114.2	3115.9	3117.5	3120.9	3120.9	3125.9	3119.2	3122.5
12.5°	3084.1	3090.7	3099.2	3102.4	3109.2	3109.2	3112.5	3114.2	3117.5	3115.9	3120.9
15°	3059.0	3067.3	3077.3	3085.8	3094.1	3099.2	3104.1	3105.8	3110.8	3105.8	3107.5
17.5°	3028.8	3038.8	3053.9	3063.9	3077.3	3082.4	3089.0	3092.4	3097.5	3094.1	3095.8
20°	2987.0	2998.7	3015.5	3030.5	3038.8	3050.5	3059.0	3063.9	3067.3	3063.9	3065.6
22.5°	2928.4	2945.1	2966.8	2978.5	2995.3	3005.3	3007.0	3018.8	3027.2	3018.8	3022.1
25°	2859.6	2876.4	2893.2	2918.4	2933.4	2945.1	2956.8	2958.5	2966.8	2965.2	2963.5
27.5°	2745.9	2767.6	2796.1	2816.2	2836.2	2854.7	2868.1	2871.5	2879.8	2876.4	2878.1
30°	2590.1	2613.6	2640.4	2672.2	2700.7	2719.0	2735.8	2747.5	2755.9	2750.8	2749.2
32.5°	2369.1	2392.5	2421.0	2452.8	2486.4	2513.1	2533.3	2548.4	2558.4	2555.0	2546.7
35°	2116.4	2123.0	2141.4	2166.5	2195.0	2223.5	2241.9	2258.7	2270.4	2273.7	2273.7
37.5°	1856.8	1835.1	1821.7	1821.7	1838.4	1850.1	1866.8	1876.8	1895.3	1902.0	1907.0
40°	1605.6	1555.4	1508.5	1473.4	1450.0	1448.3	1448.3	1453.3	1470.0	1491.8	1511.9
42.5°	1381.3	1301.0	1229.0	1163.6	1116.8	1090.0	1078.3	1079.9	1093.4	1113.4	1146.9
45°	1202.2	1101.7	1011.3	932.6	869.0	827.1	807.0	805.4	815.4	838.8	875.7
47.5°	1063.2	956.0	853.9	763.4	694.8	649.6	626.2	619.5	626.2	647.9	691.5
50°	947.7	837.2	731.7	637.9	564.3	517.4	495.6	487.2	495.6	514.0	557.6
52.5°	840.5	726.6	627.9	537.4	458.8	418.6	395.1	390.0	395.1	416.9	452.0
55°	716.6	619.5	522.3	432.0	363.4	323.1	304.8	299.7	304.8	324.8	361.7
57.5°	594.4	510.6	425.2	343.2	284.6	249.4	232.8	226.0	237.7	251.1	294.6
60°	480.5	413.6	341.6	269.6	221.1	189.2	175.8	174.2	177.5	194.2	224.3
62.5°	376.8	321.5	264.5	206.0	165.7	152.3	135.6	134.0	137.2	147.4	170.8
65°	271.2	236.1	192.6	150.6	118.9	100.5	93.8	95.4	98.8	105.5	127.2
67.5°	189.2	164.0	134.0	105.5	82.0	73.7	66.9	65.2	66.9	78.8	90.4
70°	127.2	112.2	90.4	80.3	56.9	45.2	46.9	41.8	48.6	48.6	58.6
72.5°	83.7	73.7	60.3	46.9	40.2	31.8	31.8	30.2	33.5	35.1	43.5
75°	43.5	33.5	33.5	23.4	16.8	8.3	15.1	13.4	11.7	13.4	16.8
77.5°	30.2	25.1	23.4	18.4	16.8	13.4	13.4	13.4	13.4	15.1	16.8
80°	18.4	18.4	13.4	11.7	10.0	8.3	10.0	10.0	10.0	10.0	11.7
82.5°	11.7	10.0	10.0	8.3	8.3	6.6	6.6	6.6	6.6	6.6	10.0
85°	10.0	6.6	6.6	5.1	6.6	11.7	5.1	6.6	6.6	6.6	5.1
87.5°	3.4	5.1	5.1	5.1	3.4	1.7	3.4	5.1	5.1	8.3	6.6
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: P249605

CATALOG NUMBER: LD8B70D010 ER8B70927 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2
2.5°	3124.2	3125.9	3125.9	3124.2	3124.2	3120.9	3127.6	3122.5	3124.2	3131.0	3125.9
5°	3127.6	3129.3	3129.3	3127.6	3127.6	3127.6	3129.3	3129.3	3127.6	3125.9	3129.3
7.5°	3134.2	3132.6	3132.6	3129.3	3129.3	3125.9	3129.3	3124.2	3127.6	3124.2	3129.3
10°	3125.9	3127.6	3125.9	3124.2	3124.2	3122.5	3122.5	3117.5	3119.2	3114.2	3117.5
12.5°	3120.9	3119.2	3119.2	3115.9	3112.5	3109.2	3107.5	3102.4	3102.4	3090.7	3095.8
15°	3107.5	3109.2	3104.1	3097.5	3094.1	3085.8	3082.4	3075.6	3069.0	3060.7	3062.4
17.5°	3095.8	3090.7	3084.1	3077.3	3063.9	3057.3	3050.5	3040.5	3037.2	3027.2	3023.8
20°	3060.7	3057.3	3049.0	3037.2	3028.8	3013.8	3007.0	2997.0	2988.6	2978.5	2973.5
22.5°	3015.5	3012.1	3002.1	2990.2	2976.9	2970.2	2963.5	2945.1	2936.7	2926.7	2925.0
25°	2958.5	2953.5	2943.5	2930.1	2923.3	2905.0	2898.2	2884.8	2881.5	2871.5	2869.8
27.5°	2871.5	2864.7	2853.0	2836.2	2824.5	2812.8	2806.2	2796.1	2792.7	2782.7	2781.0
30°	2740.8	2732.4	2709.0	2702.4	2682.2	2670.5	2670.5	2657.1	2658.8	2652.1	2652.1
32.5°	2534.8	2521.5	2503.1	2489.6	2476.2	2469.6	2469.6	2464.5	2467.9	2467.9	2471.3
35°	2261.9	2243.6	2233.5	2225.1	2225.1	2231.8	2251.9	2257.0	2267.0	2275.4	2282.1
37.5°	1912.0	1910.4	1922.1	1932.2	1957.3	1985.7	2020.8	2051.0	2079.5	2099.6	2119.6
40°	1533.7	1575.6	1609.0	1655.9	1694.4	1749.6	1813.3	1865.1	1913.7	1949.0	1985.7
42.5°	1197.1	1250.7	1321.1	1389.7	1458.3	1533.7	1617.4	1689.4	1753.0	1801.6	1840.0
45°	932.6	1006.2	1091.7	1178.7	1267.4	1361.2	1448.3	1521.9	1589.0	1639.1	1677.7
47.5°	751.7	832.2	929.2	1024.6	1125.1	1223.9	1321.1	1384.6	1439.9	1480.0	1515.3
50°	621.1	706.6	808.6	917.6	1018.0	1116.8	1200.5	1262.4	1307.6	1342.8	1364.5
52.5°	519.0	609.4	718.3	827.1	927.6	1018.0	1093.4	1140.2	1177.1	1202.2	1222.2
55°	428.6	515.7	617.8	720.0	818.8	904.2	966.0	1001.2	1029.7	1044.8	1056.5
57.5°	350.0	430.3	524.0	617.8	703.2	773.6	822.0	857.2	870.6	882.3	880.6
60°	274.6	350.0	435.4	515.7	589.4	646.3	681.4	701.6	711.6	716.6	713.2
62.5°	216.0	284.6	350.0	420.3	473.8	522.3	555.9	555.9	560.9	562.6	567.6
65°	160.8	212.6	269.6	321.5	365.0	396.8	415.2	420.3	426.9	425.2	421.9
67.5°	118.9	157.4	199.2	237.7	267.9	288.0	301.4	313.1	311.4	308.0	306.4
70°	82.0	107.2	144.0	167.4	189.2	209.2	212.6	214.3	216.0	217.7	214.3
72.5°	56.9	75.4	95.4	115.5	128.9	137.2	145.7	147.4	147.4	147.4	145.7
75°	28.5	38.5	56.9	65.2	77.1	80.3	87.1	87.1	92.1	85.4	83.7
77.5°	25.1	30.2	40.2	46.9	51.9	56.9	58.6	63.7	62.0	58.6	60.3
80°	15.1	18.4	25.1	28.5	35.1	36.8	38.5	40.2	38.5	40.2	40.2
82.5°	11.7	13.4	16.8	16.8	21.7	21.7	23.4	23.4	25.1	25.1	25.1
85°	6.6	11.7	10.0	20.0	13.4	13.4	16.8	20.0	16.8	16.8	20.0
87.5°	6.6	6.6	5.1	6.6	6.6	6.6	8.3	10.0	10.0	11.7	10.0
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: P249605

CATALOG NUMBER: LD8B70D010 ER8B70927 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3119.2	3119.2	3119.2	3119.2
2.5°	3124.2	3127.6	3122.5	3120.9
5°	3129.3	3129.3	3125.9	3125.9
7.5°	3129.3	3129.3	3124.2	3120.9
10°	3115.9	3115.9	3110.8	3107.5
12.5°	3090.7	3090.7	3089.0	3084.1
15°	3059.0	3059.0	3052.2	3047.3
17.5°	3015.5	3018.8	3010.4	3010.4
20°	2968.5	2966.8	2960.2	2956.8
22.5°	2920.0	2916.7	2915.0	2905.0
25°	2868.1	2864.7	2859.6	2854.7
27.5°	2779.3	2777.6	2772.7	2765.9
30°	2643.8	2642.1	2635.3	2635.3
32.5°	2467.9	2466.2	2459.6	2461.3
35°	2285.4	2292.1	2288.8	2282.1
37.5°	2133.0	2138.1	2141.4	2138.1
40°	2005.8	2020.8	2022.5	2025.9
42.5°	1870.2	1890.2	1897.0	1900.4
45°	1707.8	1726.2	1741.3	1737.9
47.5°	1542.0	1555.4	1568.8	1558.8
50°	1383.0	1391.3	1396.4	1396.4
52.5°	1232.3	1232.3	1230.6	1232.3
55°	1059.9	1059.9	1053.1	1056.5
57.5°	879.0	882.3	877.3	869.0
60°	711.6	703.2	699.9	694.8
62.5°	554.2	554.2	542.5	557.6
65°	415.2	410.2	405.2	403.5
67.5°	301.4	299.7	294.6	293.0
70°	212.6	206.0	204.3	200.9
72.5°	142.3	142.3	138.9	138.9
75°	87.1	78.8	77.1	78.8
77.5°	60.3	58.6	58.6	56.9
80°	40.2	38.5	41.8	36.8
82.5°	25.1	26.8	25.1	26.8
85°	16.8	20.0	18.4	18.4
87.5°	10.0	10.0	10.0	10.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)