

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: P248525

Luminaire Tested: **LSR8B70D010 EC8B70927 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70927 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6025.5 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

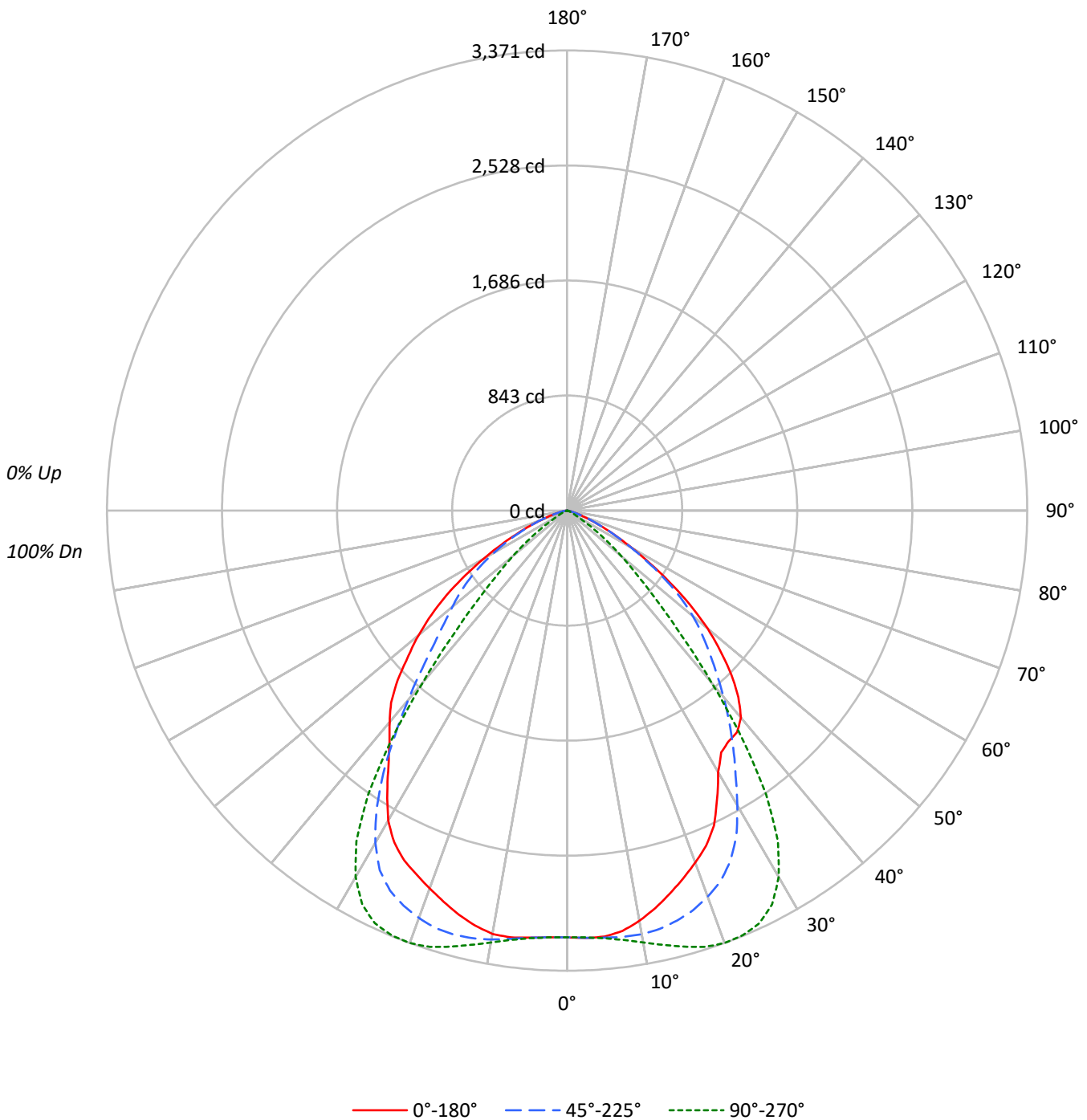
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	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°	300.6	5.0
10°-20°	890.5	14.8
20°-30°	1358.6	22.5
30°-40°	1417.7	23.5
40°-50°	1064.9	17.7
50°-60°	655.2	10.9
60°-70°	266.6	4.4
70°-80°	62.8	1.0
80°-90°	8.7	0.1
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°	2549.7	42.3
0°-40°	3967.3	65.8
0°-60°	5687.4	94.4
0°-90°	6025.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6025.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3126	3126	3126	3126	3126	
5°	3132	3141	3144	3141	3141	296
15°	2905	3109	3307	3215	3064	818
25°	2545	2830	3335	3071	2827	1157
35°	2062	2120	2540	2348	2281	1302
45°	1702	1473	919	1372	1755	1299
55°	919	873	240	873	1077	826
65°	287	290	36	390	413	299
75°	50	50	7	88	91	60
85°	5	5	2	12	15	7
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°	3125.8	3125.8	3125.8	3125.8	3125.8	3125.8	3125.8	3125.8	3125.8	3125.8	3125.8
2.5°	3134.1	3129.2	3134.1	3134.1	3135.8	3132.5	3134.1	3135.8	3132.5	3132.5	3132.5
5°	3132.5	3129.2	3132.5	3130.8	3134.1	3134.1	3137.5	3137.5	3140.8	3140.8	3145.7
7.5°	3105.9	3099.3	3105.9	3111.0	3114.2	3120.9	3129.2	3135.8	3142.5	3149.1	3157.3
10°	3051.1	3051.1	3056.2	3066.1	3076.1	3087.7	3102.6	3119.2	3135.8	3150.7	3165.6
12.5°	2983.2	2978.2	2988.1	3001.4	3016.4	3034.6	3057.9	3082.7	3109.3	3139.1	3162.4
15°	2905.2	2900.1	2911.8	2925.1	2943.3	2969.9	2998.1	3031.3	3069.5	3109.3	3147.4
17.5°	2825.5	2823.9	2835.5	2853.8	2868.6	2896.9	2933.4	2973.2	3016.4	3069.5	3119.2
20°	2744.2	2742.6	2754.2	2769.2	2789.0	2815.5	2852.1	2898.6	2950.0	3009.7	3067.8
22.5°	2659.6	2661.3	2671.2	2687.8	2704.4	2732.6	2770.8	2817.2	2873.6	2938.4	3003.1
25°	2545.1	2536.9	2550.2	2566.7	2594.9	2618.1	2654.7	2704.4	2762.4	2830.5	2906.9
27.5°	2379.2	2377.6	2389.2	2404.1	2429.0	2457.2	2497.0	2548.5	2609.9	2684.5	2759.2
30°	2213.3	2216.6	2221.6	2236.5	2253.2	2281.3	2321.1	2364.3	2422.4	2493.7	2573.3
32.5°	2100.5	2100.5	2107.1	2117.0	2128.7	2143.6	2171.8	2203.3	2248.2	2297.9	2356.0
35°	2062.4	2055.7	2062.4	2063.9	2065.6	2069.0	2073.9	2084.0	2098.8	2120.4	2142.0
37.5°	2045.7	2040.8	2040.8	2034.1	2025.8	2015.9	2002.6	1987.6	1971.1	1949.5	1933.0
40°	1981.0	1977.8	1974.4	1967.7	1949.5	1929.6	1908.0	1873.1	1835.0	1781.9	1728.9
42.5°	1856.6	1853.3	1851.6	1838.4	1821.7	1798.5	1773.7	1737.1	1689.1	1621.0	1544.6
45°	1702.4	1695.6	1690.6	1679.1	1667.5	1647.6	1624.3	1591.1	1543.0	1473.3	1382.1
47.5°	1523.1	1519.8	1518.1	1513.1	1501.5	1490.0	1475.0	1448.4	1405.2	1338.9	1244.4
50°	1342.2	1335.6	1338.9	1337.3	1332.3	1324.0	1314.0	1295.8	1262.6	1202.9	1116.6
52.5°	1134.8	1134.8	1133.2	1138.2	1139.9	1138.2	1139.9	1119.9	1091.7	1046.9	973.9
55°	919.1	919.1	924.2	930.8	937.5	939.0	937.5	929.1	909.2	872.7	808.0
57.5°	716.7	713.5	723.4	733.4	740.0	746.7	741.6	735.0	723.4	693.6	643.7
60°	545.8	545.8	552.5	559.1	565.8	572.4	570.7	569.1	559.1	539.2	499.4
62.5°	401.5	403.2	403.2	408.2	414.8	421.4	426.4	421.4	416.5	403.2	376.7
65°	287.0	285.3	287.0	292.0	297.0	303.6	306.9	305.3	300.3	290.4	270.4
67.5°	192.5	190.8	197.4	199.1	202.4	209.0	207.4	209.0	207.4	199.1	182.5
70°	126.1	122.7	126.1	124.4	129.4	131.1	134.3	136.0	134.3	129.4	124.4
72.5°	78.0	76.3	78.0	79.6	81.3	82.9	86.3	86.3	84.6	81.3	74.7
75°	49.7	44.8	46.5	43.2	46.5	46.5	49.7	51.4	49.7	49.7	46.5
77.5°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	31.5	33.2	29.9	28.2
80°	15.0	15.0	16.7	16.7	16.7	18.2	16.7	16.7	16.7	18.2	13.3
82.5°	11.6	9.9	9.9	9.9	11.6	9.9	9.9	9.9	9.9	9.9	9.9
85°	5.0	6.6	5.0	3.4	5.0	5.0	6.6	5.0	5.0	5.0	6.6
87.5°	1.7	1.7	0.0	0.0	0.0	1.7	0.0	1.7	1.7	3.4	0.0
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°	3125.8	3125.8	3125.8	3125.8	3125.8	3125.8	3125.8	3125.8	3125.8	3125.8	3125.8
2.5°	3134.1	3130.8	3130.8	3129.2	3132.5	3129.2	3130.8	3129.2	3129.2	3132.5	3129.2
5°	3145.7	3147.4	3144.0	3142.5	3147.4	3147.4	3147.4	3144.0	3144.0	3145.7	3144.0
7.5°	3162.4	3165.6	3167.3	3169.0	3172.3	3174.0	3174.0	3172.3	3170.6	3175.6	3169.0
10°	3180.6	3185.5	3195.6	3200.5	3208.8	3208.8	3212.1	3212.1	3208.8	3212.1	3210.4
12.5°	3174.0	3203.8	3220.4	3232.0	3243.6	3253.6	3256.9	3258.6	3256.9	3263.5	3256.9
15°	3185.5	3210.4	3237.0	3256.9	3278.5	3290.1	3293.4	3306.7	3310.0	3311.7	3301.8
17.5°	3167.3	3212.1	3240.3	3270.2	3301.8	3323.2	3343.2	3351.5	3353.2	3356.4	3343.2
20°	3125.8	3175.6	3218.7	3261.9	3298.4	3331.6	3348.1	3371.4	3364.8	3378.0	3359.8
22.5°	3069.5	3125.8	3180.6	3237.0	3275.2	3315.0	3349.8	3366.3	3374.7	3374.7	3354.8
25°	2979.8	3046.2	3105.9	3164.0	3222.1	3270.2	3310.0	3334.8	3339.9	3338.2	3315.0
27.5°	2840.5	2911.8	2981.5	3047.8	3119.2	3175.6	3222.1	3251.9	3260.2	3260.2	3235.4
30°	2648.0	2724.3	2792.4	2872.0	2945.0	3008.0	3072.7	3099.3	3114.2	3114.2	3086.0
32.5°	2419.0	2483.8	2546.8	2624.7	2704.4	2775.7	2837.1	2873.6	2891.9	2890.2	2865.4
35°	2170.1	2201.6	2249.8	2307.8	2379.2	2445.5	2505.3	2540.1	2571.6	2570.1	2546.8
37.5°	1921.3	1913.0	1918.0	1939.5	1984.3	2030.8	2077.2	2110.5	2136.9	2148.6	2143.6
40°	1677.4	1634.3	1592.8	1577.8	1581.2	1597.7	1622.7	1647.6	1677.4	1692.3	1699.0
42.5°	1458.3	1385.4	1312.3	1257.6	1226.1	1216.1	1227.7	1236.0	1254.3	1275.9	1297.5
45°	1282.5	1184.6	1088.4	1003.8	950.7	919.1	912.5	919.1	929.1	950.7	978.9
47.5°	1138.2	1023.6	915.9	821.2	743.3	701.9	690.2	686.9	696.8	716.7	754.9
50°	1010.4	896.0	776.5	667.0	585.7	539.2	522.7	516.0	527.6	542.6	577.4
52.5°	871.1	758.2	635.5	529.3	444.6	396.6	378.2	368.3	375.0	394.9	429.8
55°	720.1	615.5	504.3	394.9	313.5	268.8	247.2	240.5	247.2	268.8	303.6
57.5°	569.1	481.2	388.2	285.3	212.4	167.6	146.0	139.4	157.6	165.9	202.4
60°	444.6	373.3	293.6	209.0	146.0	111.2	89.6	84.6	92.9	107.8	137.7
62.5°	333.4	288.7	225.7	149.3	107.8	71.3	59.7	54.8	59.7	71.3	94.6
65°	242.2	207.4	157.6	109.5	73.0	53.1	39.8	36.4	41.5	49.7	69.8
67.5°	165.9	139.4	109.5	76.3	49.7	33.2	28.2	28.2	29.9	36.4	51.4
70°	107.8	91.2	69.8	49.7	33.2	24.9	21.6	18.2	21.6	26.6	34.9
72.5°	68.1	58.0	44.8	34.9	24.9	18.2	15.0	13.3	16.7	19.9	26.6
75°	41.5	31.5	23.2	18.2	13.3	13.3	13.3	6.6	8.3	13.3	16.7
77.5°	24.9	21.6	18.2	15.0	11.6	6.6	6.6	6.6	8.3	9.9	15.0
80°	13.3	11.6	8.3	8.3	6.6	5.0	6.6	5.0	3.4	8.3	9.9
82.5°	8.3	6.6	6.6	6.6	8.3	3.4	5.0	3.4	5.0	6.6	5.0
85°	5.0	5.0	5.0	3.4	8.3	3.4	3.4	1.7	1.7	3.4	3.4
87.5°	0.0	1.7	1.7	0.0	1.7	0.0	1.7	1.7	1.7	1.7	1.7
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°	3125.8	3125.8	3125.8	3125.8	3125.8	3125.8	3125.8	3125.8	3125.8	3125.8	3125.8
2.5°	3130.8	3129.2	3130.8	3129.2	3129.2	3129.2	3130.8	3130.8	3129.2	3129.2	3132.5
5°	3144.0	3144.0	3144.0	3142.5	3140.8	3140.8	3144.0	3144.0	3139.1	3144.0	3144.0
7.5°	3172.3	3167.3	3172.3	3165.6	3162.4	3164.0	3165.6	3162.4	3159.0	3160.7	3160.7
10°	3208.8	3203.8	3203.8	3198.8	3193.9	3190.5	3187.2	3178.9	3170.6	3169.0	3162.4
12.5°	3251.9	3243.6	3238.6	3228.6	3220.4	3208.8	3198.8	3185.5	3169.0	3157.3	3145.7
15°	3295.0	3281.7	3270.2	3253.6	3235.4	3215.4	3193.9	3172.3	3145.7	3122.5	3102.6
17.5°	3329.9	3311.7	3290.1	3263.5	3237.0	3207.2	3175.6	3144.0	3105.9	3076.1	3052.8
20°	3341.5	3315.0	3286.8	3251.9	3217.0	3175.6	3135.8	3094.3	3051.1	3019.6	2993.1
22.5°	3326.6	3295.0	3260.2	3223.7	3177.2	3132.5	3086.0	3037.8	2999.7	2956.6	2931.8
25°	3285.1	3247.0	3208.8	3165.6	3120.9	3071.1	3021.3	2971.6	2925.1	2901.8	2870.3
27.5°	3200.5	3159.0	3117.5	3072.7	3021.3	2971.6	2920.2	2872.0	2832.2	2800.7	2782.5
30°	3051.1	3003.1	2954.9	2906.9	2862.0	2810.6	2762.4	2722.6	2682.8	2657.9	2639.7
32.5°	2822.2	2779.1	2730.9	2684.5	2643.1	2599.9	2560.0	2525.2	2497.0	2480.4	2467.1
35°	2513.6	2470.5	2433.9	2400.8	2365.9	2347.6	2322.8	2302.9	2291.3	2284.6	2283.0
37.5°	2125.4	2100.5	2088.9	2082.3	2075.6	2070.7	2073.9	2082.3	2088.9	2100.5	2113.8
40°	1710.6	1732.2	1738.8	1762.0	1783.6	1811.8	1843.3	1879.9	1909.7	1947.8	1974.4
42.5°	1332.3	1372.2	1418.5	1468.4	1521.4	1572.9	1636.0	1694.0	1747.1	1795.2	1836.7
45°	1023.6	1085.1	1154.8	1226.1	1297.5	1372.2	1448.4	1519.8	1582.9	1634.3	1677.4
47.5°	798.1	866.1	955.7	1043.7	1129.8	1217.8	1302.4	1377.1	1430.2	1479.9	1518.1
50°	632.1	710.1	808.0	909.2	1003.8	1096.6	1186.3	1256.0	1309.0	1348.9	1377.1
52.5°	489.5	582.4	681.9	788.1	889.3	990.6	1073.5	1138.2	1181.4	1216.1	1237.7
55°	365.0	456.3	562.5	672.0	774.8	872.7	950.7	1007.1	1045.2	1065.1	1076.7
57.5°	263.8	346.7	452.9	562.5	655.3	748.2	811.4	862.8	884.4	896.0	900.9
60°	192.5	268.8	363.4	457.9	545.8	620.6	675.3	710.1	726.8	733.4	731.7
62.5°	141.1	207.4	288.7	368.3	439.6	501.1	544.2	567.4	575.8	579.0	574.1
65°	107.8	159.3	228.9	290.4	345.2	389.9	421.4	436.4	441.3	439.6	436.4
67.5°	79.6	119.5	170.9	217.4	257.2	292.0	308.6	321.9	325.1	320.2	315.2
70°	56.5	88.0	124.4	155.9	185.8	205.8	224.0	225.7	225.7	224.0	220.7
72.5°	39.8	61.4	84.6	106.2	124.4	139.4	146.0	151.0	149.3	147.6	144.3
75°	26.6	38.1	61.4	66.4	82.9	88.0	94.6	94.6	96.2	91.2	91.2
77.5°	16.7	26.6	36.4	43.2	49.7	56.5	59.7	59.7	61.4	59.7	59.7
80°	9.9	16.7	19.9	29.9	29.9	34.9	36.4	38.1	34.9	39.8	34.9
82.5°	6.6	9.9	15.0	15.0	18.2	21.6	21.6	23.2	23.2	21.6	21.6
85°	5.0	6.6	8.3	9.9	9.9	11.6	9.9	9.9	11.6	13.3	11.6
87.5°	1.7	3.4	1.7	3.4	3.4	6.6	5.0	5.0	5.0	6.6	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: P248525

CATALOG NUMBER: LSR8B70D010 EC8B70927 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3125.8	3125.8	3125.8	3125.8
2.5°	3129.2	3130.8	3129.2	3129.2
5°	3144.0	3142.5	3144.0	3140.8
7.5°	3155.7	3155.7	3154.0	3154.0
10°	3155.7	3149.1	3149.1	3149.1
12.5°	3130.8	3122.5	3117.5	3114.2
15°	3087.7	3072.7	3066.1	3064.4
17.5°	3031.3	3018.0	3009.7	3004.8
20°	2966.5	2953.2	2943.3	2945.0
22.5°	2910.2	2895.2	2888.5	2885.3
25°	2853.8	2835.5	2830.5	2827.2
27.5°	2762.4	2752.5	2747.6	2742.6
30°	2623.2	2618.1	2609.9	2621.5
32.5°	2462.2	2453.8	2447.2	2452.3
35°	2284.6	2279.7	2284.6	2281.3
37.5°	2122.1	2127.0	2133.7	2136.9
40°	1994.3	2012.5	2019.2	2022.5
42.5°	1866.6	1888.1	1901.4	1909.7
45°	1708.9	1730.5	1745.4	1755.4
47.5°	1546.3	1564.5	1579.5	1577.8
50°	1398.7	1408.6	1415.2	1421.9
52.5°	1249.3	1249.3	1251.0	1251.0
55°	1080.1	1076.7	1075.2	1076.7
57.5°	894.3	891.0	889.3	884.4
60°	725.1	715.2	708.4	708.4
62.5°	567.4	555.9	550.8	549.2
65°	426.4	424.7	414.8	413.1
67.5°	308.6	302.0	295.3	297.0
70°	217.4	207.4	207.4	204.1
72.5°	141.1	136.0	134.3	134.3
75°	88.0	88.0	84.6	91.2
77.5°	58.0	58.0	56.5	58.0
80°	34.9	34.9	34.9	33.2
82.5°	21.6	23.2	21.6	21.6
85°	11.6	13.3	9.9	15.0
87.5°	6.6	8.3	6.6	8.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)