

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: P248526

Luminaire Tested: **LSR8B80D010 EC8B809727 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248526
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: LSR8B80D010 EC8B809727 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: 5956.0 lumens
Efficiency: N/A
Efficacy: 80.1 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

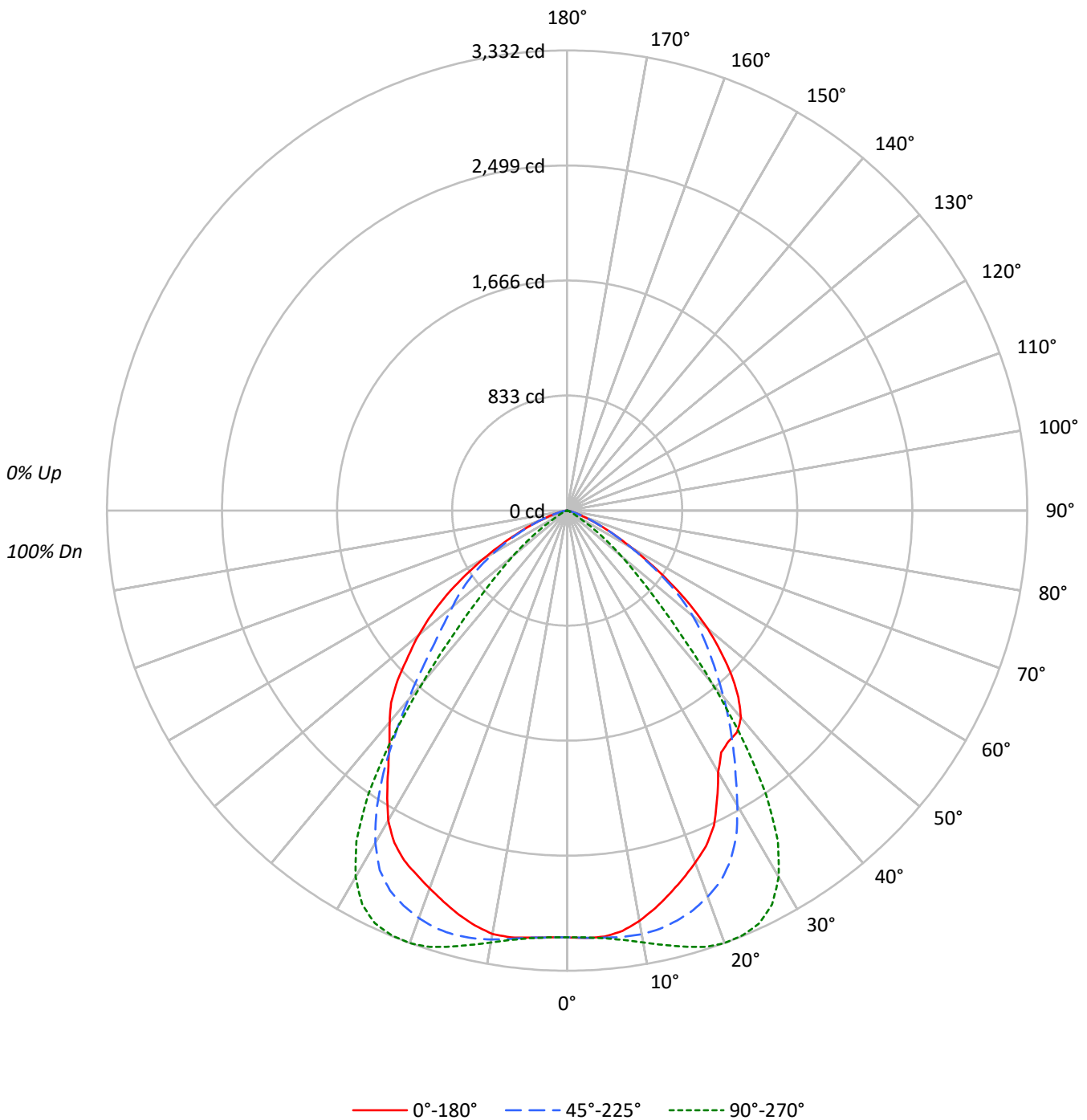
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	297.1	5.0
10°-20°	880.2	14.8
20°-30°	1342.9	22.5
30°-40°	1401.3	23.5
40°-50°	1052.6	17.7
50°-60°	647.6	10.9
60°-70°	263.6	4.4
70°-80°	62.1	1.0
80°-90°	8.5	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°	2520.3	42.3
0°-40°	3921.6	65.8
0°-60°	5621.8	94.4
0°-90°	5956.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5956.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3090	3090	3090	3090	3090	
5°	3096	3104	3108	3104	3104	293
15°	2872	3073	3268	3178	3029	809
25°	2516	2798	3296	3036	2795	1144
35°	2038	2096	2511	2321	2255	1287
45°	1683	1456	908	1356	1735	1284
55°	908	863	238	863	1064	817
65°	284	287	36	385	408	296
75°	49	49	6	87	90	59
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°	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8
2.5°	3098.0	3093.1	3098.0	3098.0	3099.6	3096.3	3098.0	3099.6	3096.3	3096.3	3096.3
5°	3096.3	3093.1	3096.3	3094.7	3098.0	3098.0	3101.3	3101.3	3104.5	3104.5	3109.5
7.5°	3070.1	3063.6	3070.1	3075.0	3078.3	3084.9	3093.1	3099.6	3106.2	3112.8	3120.9
10°	3016.0	3016.0	3020.9	3030.7	3040.6	3052.0	3066.8	3083.2	3099.6	3114.4	3129.1
12.5°	2948.8	2943.8	2953.6	2966.8	2981.5	2999.6	3022.5	3047.1	3073.4	3102.9	3125.9
15°	2871.7	2866.7	2878.2	2891.3	2909.4	2935.6	2963.5	2996.3	3034.0	3073.4	3111.1
17.5°	2792.9	2791.3	2802.8	2820.8	2835.6	2863.4	2899.6	2938.9	2981.5	3034.0	3083.2
20°	2712.6	2711.0	2722.4	2737.2	2756.9	2783.1	2819.2	2865.1	2915.9	2975.0	3032.4
22.5°	2628.9	2630.6	2640.4	2656.8	2673.2	2701.1	2738.8	2784.7	2840.5	2904.4	2968.4
25°	2515.8	2507.6	2520.7	2537.1	2565.0	2587.9	2624.0	2673.2	2730.6	2797.9	2873.3
27.5°	2351.8	2350.1	2361.6	2376.4	2401.0	2428.8	2468.2	2519.1	2579.7	2653.5	2727.3
30°	2187.8	2191.0	2196.0	2210.8	2227.1	2255.0	2294.4	2337.0	2394.4	2464.9	2543.7
32.5°	2076.2	2076.2	2082.8	2092.7	2104.1	2118.9	2146.8	2177.9	2222.2	2271.4	2328.8
35°	2038.5	2032.0	2038.5	2040.2	2041.8	2045.1	2050.0	2059.9	2074.6	2095.9	2117.3
37.5°	2022.1	2017.2	2017.2	2010.7	2002.4	1992.6	1979.5	1964.7	1948.4	1927.0	1910.6
40°	1958.2	1954.9	1951.6	1945.1	1927.0	1907.3	1886.0	1851.6	1813.8	1761.4	1708.9
42.5°	1835.2	1831.9	1830.3	1817.1	1800.7	1777.8	1753.2	1717.1	1669.5	1602.3	1526.8
45°	1682.7	1676.1	1671.2	1659.7	1648.2	1628.5	1605.6	1572.8	1525.2	1456.3	1366.1
47.5°	1505.5	1502.2	1500.6	1495.7	1484.2	1472.7	1458.0	1431.7	1389.1	1323.5	1230.0
50°	1326.8	1320.2	1323.5	1321.9	1316.9	1308.7	1298.9	1280.9	1248.0	1189.0	1103.7
52.5°	1121.7	1121.7	1120.1	1125.0	1126.7	1125.0	1126.7	1107.0	1079.1	1034.8	962.7
55°	908.5	908.5	913.5	920.1	926.6	928.2	926.6	918.4	898.7	862.6	798.7
57.5°	708.5	705.2	715.0	724.9	731.5	738.0	733.1	726.5	715.0	685.5	636.3
60°	539.6	539.6	546.1	552.7	559.2	565.8	564.2	562.5	552.7	533.0	493.7
62.5°	396.9	398.5	398.5	403.5	410.0	416.6	421.5	416.6	411.6	398.5	372.3
65°	283.7	282.1	283.7	288.6	293.6	300.1	303.4	301.8	296.8	287.0	267.3
67.5°	190.2	188.6	195.1	196.8	200.1	206.7	205.0	206.7	205.0	196.8	180.4
70°	124.6	121.3	124.6	123.0	127.9	129.6	132.8	134.5	132.8	127.9	123.0
72.5°	77.1	75.4	77.1	78.7	80.4	82.0	85.3	85.3	83.6	80.4	73.8
75°	49.2	44.3	45.9	42.7	45.9	45.9	49.2	50.8	49.2	49.2	45.9
77.5°	29.5	29.5	29.5	29.5	29.5	29.5	29.5	31.2	32.8	29.5	27.9
80°	14.8	14.8	16.4	16.4	16.4	18.1	16.4	16.4	16.4	18.1	13.1
82.5°	11.5	9.8	9.8	9.8	11.5	9.8	9.8	9.8	9.8	9.8	9.8
85°	4.9	6.5	4.9	3.3	4.9	4.9	6.5	4.9	4.9	4.9	6.5
87.5°	1.6	1.6	0.0	0.0	0.0	1.6	0.0	1.6	1.6	3.3	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



TEST NUMBER: P248526

CATALOG NUMBER: LSR8B80D010 EC8B809727 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8
2.5°	3098.0	3094.7	3094.7	3093.1	3096.3	3093.1	3094.7	3093.1	3093.1	3096.3	3093.1
5°	3109.5	3111.1	3107.8	3106.2	3111.1	3111.1	3111.1	3107.8	3107.8	3109.5	3107.8
7.5°	3125.9	3129.1	3130.8	3132.4	3135.7	3137.4	3137.4	3135.7	3134.1	3139.0	3132.4
10°	3143.9	3148.8	3158.7	3163.6	3171.8	3171.8	3175.1	3175.1	3171.8	3175.1	3173.4
12.5°	3137.4	3166.8	3183.3	3194.7	3206.2	3216.0	3219.3	3221.0	3219.3	3225.9	3219.3
15°	3148.8	3173.4	3199.7	3219.3	3240.6	3252.1	3255.4	3268.5	3271.8	3273.5	3263.6
17.5°	3130.8	3175.1	3202.9	3232.5	3263.6	3284.9	3304.6	3312.8	3314.5	3317.7	3304.6
20°	3089.8	3139.0	3181.6	3224.3	3260.3	3293.1	3309.5	3332.5	3326.0	3339.1	3321.0
22.5°	3034.0	3089.8	3143.9	3199.7	3237.4	3276.8	3311.2	3327.6	3335.8	3335.8	3316.1
25°	2945.5	3011.1	3070.1	3127.5	3184.9	3232.5	3271.8	3296.4	3301.4	3299.7	3276.8
27.5°	2807.7	2878.2	2947.1	3012.7	3083.2	3139.0	3184.9	3214.4	3222.6	3222.6	3198.0
30°	2617.5	2692.9	2760.1	2838.8	2911.0	2973.3	3037.3	3063.6	3078.3	3078.3	3050.4
32.5°	2391.1	2455.1	2517.4	2594.5	2673.2	2743.7	2804.4	2840.5	2858.5	2856.9	2832.3
35°	2145.1	2176.3	2223.9	2281.3	2351.8	2417.4	2476.4	2510.9	2542.0	2540.4	2517.4
37.5°	1899.1	1890.9	1895.9	1917.2	1961.4	2007.4	2053.3	2086.1	2112.3	2123.8	2118.9
40°	1658.1	1615.4	1574.4	1559.7	1562.9	1579.3	1603.9	1628.5	1658.1	1672.8	1679.4
42.5°	1441.6	1369.4	1297.2	1243.1	1212.0	1202.1	1213.6	1221.8	1239.8	1261.2	1282.5
45°	1267.7	1171.0	1075.8	992.2	939.7	908.5	902.0	908.5	918.4	939.7	967.6
47.5°	1125.0	1011.9	905.3	811.8	734.7	693.7	682.3	679.0	688.8	708.5	746.2
50°	998.8	885.6	767.5	659.3	578.9	533.0	516.6	510.0	521.5	536.3	570.7
52.5°	861.0	749.5	628.1	523.2	439.5	392.0	373.9	364.1	370.6	390.3	424.8
55°	711.8	608.4	498.6	390.3	310.0	265.7	244.3	237.8	244.3	265.7	300.1
57.5°	562.5	475.6	383.7	282.1	209.9	165.6	144.3	137.8	155.8	164.0	200.1
60°	439.5	369.0	290.3	206.7	144.3	109.9	88.6	83.6	91.9	106.6	136.1
62.5°	329.7	285.4	223.0	147.6	106.6	70.5	59.0	54.1	59.0	70.5	93.5
65°	239.4	205.0	155.8	108.2	72.2	52.5	39.4	36.1	41.0	49.2	68.9
67.5°	164.0	137.8	108.2	75.4	49.2	32.8	27.9	27.9	29.5	36.1	50.8
70°	106.6	90.2	68.9	49.2	32.8	24.6	21.3	18.1	21.3	26.2	34.4
72.5°	67.3	57.4	44.3	34.4	24.6	18.1	14.8	13.1	16.4	19.7	26.2
75°	41.0	31.2	23.0	18.1	13.1	13.1	13.1	6.5	8.2	13.1	16.4
77.5°	24.6	21.3	18.1	14.8	11.5	6.5	6.5	6.5	8.2	9.8	14.8
80°	13.1	11.5	8.2	8.2	6.5	4.9	6.5	4.9	3.3	8.2	9.8
82.5°	8.2	6.5	6.5	6.5	8.2	3.3	4.9	3.3	4.9	6.5	4.9
85°	4.9	4.9	4.9	3.3	8.2	3.3	3.3	1.6	1.6	3.3	3.3
87.5°	0.0	1.6	1.6	0.0	1.6	0.0	1.6	1.6	1.6	1.6	1.6
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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CATALOG NUMBER: LSR8B80D010 EC8B809727 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8
2.5°	3094.7	3093.1	3094.7	3093.1	3093.1	3093.1	3094.7	3094.7	3093.1	3093.1	3096.3
5°	3107.8	3107.8	3107.8	3106.2	3104.5	3104.5	3107.8	3107.8	3102.9	3107.8	3107.8
7.5°	3135.7	3130.8	3135.7	3129.1	3125.9	3127.5	3129.1	3125.9	3122.6	3124.2	3124.2
10°	3171.8	3166.8	3166.8	3162.0	3157.0	3153.7	3150.5	3142.3	3134.1	3132.4	3125.9
12.5°	3214.4	3206.2	3201.3	3191.4	3183.3	3171.8	3162.0	3148.8	3132.4	3120.9	3109.5
15°	3257.1	3243.9	3232.5	3216.0	3198.0	3178.3	3157.0	3135.7	3109.5	3086.5	3066.8
17.5°	3291.5	3273.5	3252.1	3225.9	3199.7	3170.1	3139.0	3107.8	3070.1	3040.6	3017.6
20°	3303.0	3276.8	3248.9	3214.4	3180.0	3139.0	3099.6	3058.6	3016.0	2984.8	2958.6
22.5°	3288.2	3257.1	3222.6	3186.6	3140.6	3096.3	3050.4	3002.8	2965.1	2922.5	2897.9
25°	3247.2	3209.5	3171.8	3129.1	3084.9	3035.7	2986.5	2937.3	2891.3	2868.4	2837.2
27.5°	3163.6	3122.6	3081.6	3037.3	2986.5	2937.3	2886.4	2838.8	2799.5	2768.3	2750.3
30°	3016.0	2968.4	2920.9	2873.3	2829.0	2778.2	2730.6	2691.2	2651.9	2627.3	2609.3
32.5°	2789.6	2747.0	2699.5	2653.5	2612.6	2569.9	2530.5	2496.1	2468.2	2451.8	2438.7
35°	2484.6	2442.0	2405.9	2373.1	2338.6	2320.6	2296.0	2276.3	2264.8	2258.3	2256.7
37.5°	2100.8	2076.2	2064.8	2058.2	2051.6	2046.7	2050.0	2058.2	2064.8	2076.2	2089.4
40°	1690.8	1712.2	1718.7	1741.7	1763.0	1790.9	1822.1	1858.1	1887.6	1925.4	1951.6
42.5°	1316.9	1356.3	1402.2	1451.4	1503.9	1554.7	1617.1	1674.4	1726.9	1774.5	1815.5
45°	1011.9	1072.6	1141.5	1212.0	1282.5	1356.3	1431.7	1502.2	1564.6	1615.4	1658.1
47.5°	788.8	856.1	944.7	1031.6	1116.9	1203.8	1287.4	1361.2	1413.7	1462.9	1500.6
50°	624.8	701.9	798.7	898.7	992.2	1084.0	1172.6	1241.5	1294.0	1333.3	1361.2
52.5°	483.8	575.6	674.0	779.0	879.1	979.1	1061.1	1125.0	1167.7	1202.1	1223.4
55°	360.8	451.0	556.0	664.2	765.9	862.6	939.7	995.5	1033.2	1052.9	1064.4
57.5°	260.8	342.8	447.7	556.0	647.8	739.6	802.0	852.8	874.1	885.6	890.5
60°	190.2	265.7	359.1	452.6	539.6	613.4	667.5	701.9	718.3	724.9	723.2
62.5°	139.4	205.0	285.4	364.1	434.6	495.3	537.9	560.9	569.1	572.4	567.5
65°	106.6	157.4	226.3	287.0	341.1	385.4	416.6	431.3	436.2	434.6	431.3
67.5°	78.7	118.1	168.9	214.8	254.2	288.6	305.1	318.2	321.4	316.5	311.6
70°	55.8	86.9	123.0	154.2	183.7	203.4	221.4	223.0	223.0	221.4	218.1
72.5°	39.4	60.7	83.6	105.0	123.0	137.8	144.3	149.2	147.6	145.9	142.7
75°	26.2	37.7	60.7	65.6	82.0	86.9	93.5	93.5	95.1	90.2	90.2
77.5°	16.4	26.2	36.1	42.7	49.2	55.8	59.0	59.0	60.7	59.0	59.0
80°	9.8	16.4	19.7	29.5	29.5	34.4	36.1	37.7	34.4	39.4	34.4
82.5°	6.5	9.8	14.8	14.8	18.1	21.3	21.3	23.0	23.0	21.3	21.3
85°	4.9	6.5	8.2	9.8	9.8	11.5	9.8	9.8	11.5	13.1	11.5
87.5°	1.6	3.3	1.6	3.3	3.3	6.5	4.9	4.9	4.9	6.5	6.5
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: P248526

CATALOG NUMBER: LSR8B80D010 EC8B809727 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3089.8	3089.8	3089.8	3089.8
2.5°	3093.1	3094.7	3093.1	3093.1
5°	3107.8	3106.2	3107.8	3104.5
7.5°	3119.3	3119.3	3117.7	3117.7
10°	3119.3	3112.8	3112.8	3112.8
12.5°	3094.7	3086.5	3081.6	3078.3
15°	3052.0	3037.3	3030.7	3029.1
17.5°	2996.3	2983.2	2975.0	2970.1
20°	2932.3	2919.2	2909.4	2911.0
22.5°	2876.6	2861.8	2855.3	2852.0
25°	2820.8	2802.8	2797.9	2794.6
27.5°	2730.6	2720.8	2715.8	2711.0
30°	2592.9	2587.9	2579.7	2591.2
32.5°	2433.8	2425.6	2419.0	2424.0
35°	2258.3	2253.4	2258.3	2255.0
37.5°	2097.6	2102.5	2109.1	2112.3
40°	1971.3	1989.3	1995.9	1999.2
42.5°	1845.0	1866.3	1879.5	1887.6
45°	1689.2	1710.5	1725.3	1735.1
47.5°	1528.5	1546.5	1561.3	1559.7
50°	1382.5	1392.4	1398.9	1405.5
52.5°	1234.9	1234.9	1236.6	1236.6
55°	1067.7	1064.4	1062.7	1064.4
57.5°	883.9	880.7	879.1	874.1
60°	716.7	706.9	700.3	700.3
62.5°	560.9	549.4	544.5	542.9
65°	421.5	419.8	410.0	408.3
67.5°	305.1	298.5	291.9	293.6
70°	214.8	205.0	205.0	201.7
72.5°	139.4	134.5	132.8	132.8
75°	86.9	86.9	83.6	90.2
77.5°	57.4	57.4	55.8	57.4
80°	34.4	34.4	34.4	32.8
82.5°	21.3	23.0	21.3	21.3
85°	11.5	13.1	9.8	14.8
87.5°	6.5	8.2	6.5	8.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)