

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: P249577

Luminaire Tested: **LSR8B60D010 EC8B60935 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249577
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: LSR8B60D010 EC8B60935 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5332.0 lumens
Efficiency: N/A
Efficacy: 89.6 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

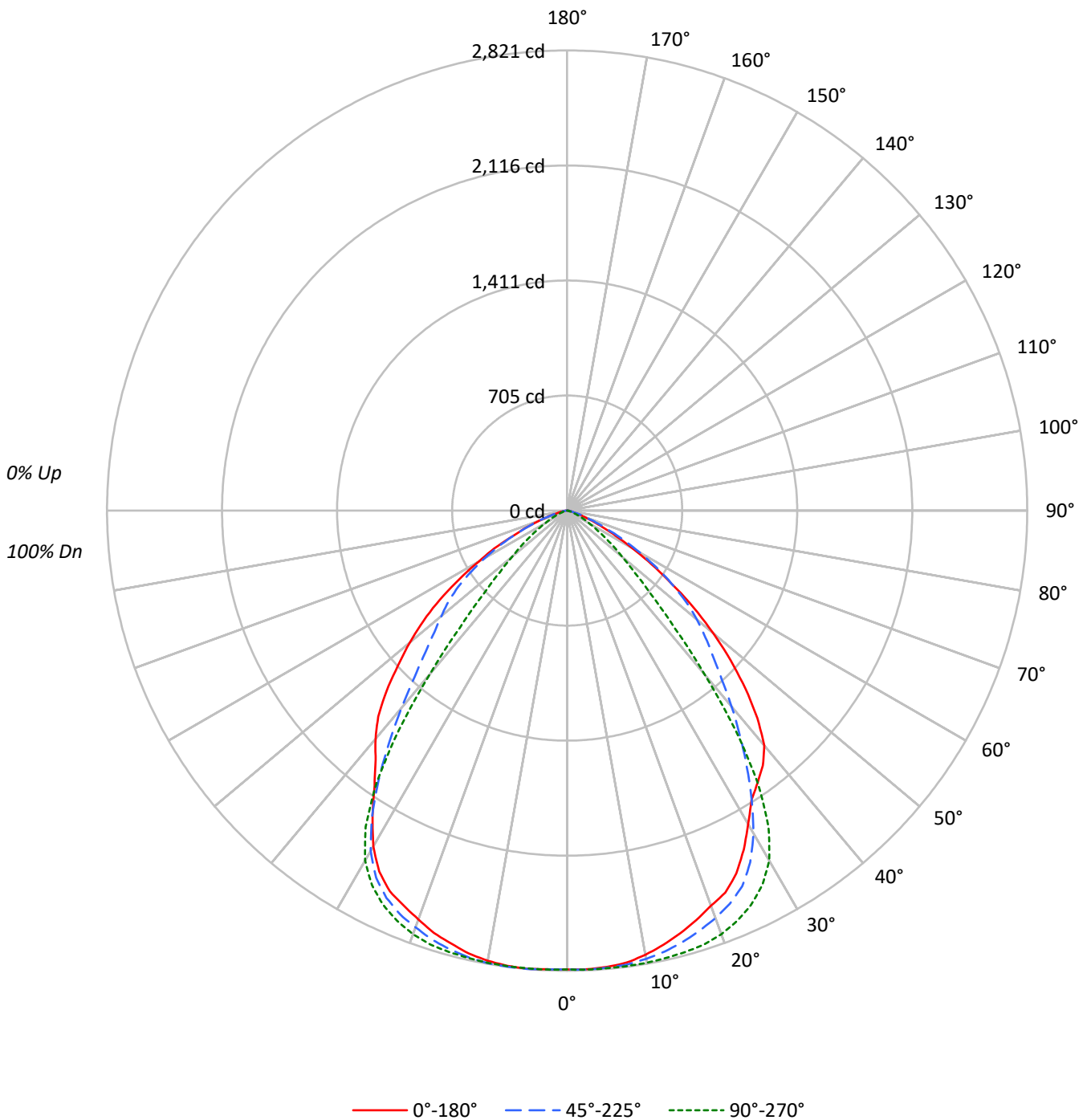
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	86752	86752	86752
5°	86941	87176	87269
10°	86575	88137	87758
15°	85617	89426	87737
20°	84588	90682	87512
25°	83492	90787	87602
30°	78986	88233	84634
35°	76629	76685	77479
40°	75677	52761	73552
45°	67433	31673	68357
50°	56071	21079	60417
55°	42052	14532	51224
60°	28499	9683	38650
65°	17191	6282	26552
70°	9530	3408	16337
75°	4313	1442	8459
80°	3747	1616	5896
85°	4281	2123	5873



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.5	5.0
10°-20°	779.7	14.6
20°-30°	1183.5	22.2
30°-40°	1243.0	23.3
40°-50°	931.9	17.5
50°-60°	597.9	11.2
60°-70°	255.8	4.8
70°-80°	60.4	1.1
80°-90°	11.2	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°	2231.7	41.9
0°-40°	3474.7	65.2
0°-60°	5004.5	93.9
0°-90°	5332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5332.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2813	2813	2813	2813	2813	
5°	2809	2813	2816	2821	2819	267
15°	2682	2738	2801	2783	2748	756
25°	2454	2540	2668	2620	2575	1121
35°	2036	1922	2037	2013	2058	1278
45°	1546	1264	726	1228	1568	1184
55°	782	782	270	815	953	710
65°	236	278	86	358	364	251
75°	36	42	12	72	71	53
85°	12	8	6	12	17	13
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°	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3
2.5°	2814.8	2817.8	2816.3	2816.3	2814.8	2816.3	2816.3	2819.3	2819.3	2816.3	2814.8
5°	2808.7	2811.8	2811.8	2808.7	2808.7	2816.3	2811.8	2814.8	2814.8	2813.3	2813.3
7.5°	2795.2	2795.2	2801.2	2796.7	2796.7	2801.2	2799.7	2802.7	2805.7	2807.2	2807.2
10°	2764.9	2768.0	2769.5	2769.5	2771.0	2775.5	2778.5	2784.6	2787.6	2790.6	2792.1
12.5°	2727.2	2731.7	2733.2	2731.7	2736.3	2742.3	2749.9	2757.4	2761.9	2768.0	2772.5
15°	2681.9	2681.9	2684.9	2689.5	2692.5	2701.5	2709.1	2718.1	2730.2	2737.8	2745.3
17.5°	2632.1	2635.1	2639.6	2639.6	2645.7	2660.7	2665.3	2678.9	2692.5	2700.0	2715.1
20°	2577.7	2580.7	2585.3	2588.3	2595.8	2607.9	2617.0	2629.0	2644.2	2657.7	2672.8
22.5°	2535.4	2529.4	2532.4	2535.4	2543.0	2553.6	2564.1	2579.2	2594.3	2607.9	2623.0
25°	2453.9	2455.4	2459.9	2462.9	2472.0	2481.1	2493.1	2511.2	2524.8	2540.0	2556.5
27.5°	2343.6	2345.2	2352.7	2352.7	2360.2	2375.3	2382.9	2398.0	2416.1	2431.2	2450.9
30°	2218.3	2221.3	2221.3	2227.4	2231.9	2239.4	2247.0	2262.1	2271.2	2284.7	2311.9
32.5°	2103.5	2106.5	2105.0	2103.5	2099.0	2097.5	2096.0	2099.0	2102.0	2106.5	2117.1
35°	2035.6	2028.0	2022.0	2011.4	1999.4	1984.2	1970.6	1952.5	1935.9	1922.3	1907.2
37.5°	1970.6	1969.1	1960.1	1945.0	1920.8	1893.6	1861.9	1822.7	1783.4	1741.1	1700.4
40°	1880.0	1875.5	1868.0	1846.8	1819.6	1786.4	1744.1	1695.8	1632.4	1567.5	1501.0
42.5°	1726.0	1727.5	1718.5	1701.8	1676.2	1644.5	1600.7	1547.8	1479.9	1402.8	1316.8
45°	1546.3	1546.3	1543.3	1529.7	1511.6	1485.9	1452.7	1408.9	1342.5	1263.9	1171.8
47.5°	1359.1	1360.6	1356.0	1353.0	1345.5	1328.9	1304.7	1271.5	1224.7	1149.2	1057.0
50°	1168.8	1168.8	1176.3	1174.8	1174.8	1168.8	1158.2	1138.6	1097.8	1037.4	951.4
52.5°	978.5	981.6	986.1	992.1	999.7	1011.7	999.7	990.6	964.9	918.1	844.1
55°	782.2	785.2	792.8	803.3	812.4	824.5	827.5	827.5	813.9	782.2	726.3
57.5°	614.6	610.1	616.1	625.2	637.3	649.3	658.4	669.0	667.4	646.3	601.0
60°	462.1	463.6	468.1	477.2	486.2	496.8	508.9	518.0	522.5	511.9	483.2
62.5°	336.8	336.8	342.8	351.8	356.4	371.5	379.0	383.6	388.1	386.6	368.5
65°	235.6	238.6	241.6	246.2	250.7	259.7	264.3	273.3	276.3	277.9	264.3
67.5°	166.1	161.6	164.6	167.6	172.1	178.2	187.3	187.3	191.8	191.8	182.7
70°	105.7	105.7	107.2	111.7	114.8	116.3	119.3	122.3	126.8	125.3	125.3
72.5°	71.0	69.5	71.0	72.5	74.0	78.5	78.5	80.0	83.1	84.6	78.5
75°	36.2	37.8	40.8	39.3	43.8	40.8	42.3	46.8	45.3	42.3	42.3
77.5°	30.2	30.2	30.2	28.7	31.7	31.7	30.2	33.2	31.7	31.7	30.2
80°	21.1	22.6	21.1	19.6	21.1	19.6	19.6	19.6	19.6	19.6	18.1
82.5°	16.6	13.6	15.1	13.6	15.1	15.1	13.6	12.1	12.1	13.6	12.1
85°	12.1	9.1	10.6	10.6	9.1	9.1	9.1	9.1	9.1	7.5	7.5
87.5°	7.5	4.5	4.5	4.5	6.0	6.0	6.0	4.5	6.0	6.0	3.0
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°	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3
2.5°	2817.8	2816.3	2819.3	2817.8	2817.8	2816.3	2817.8	2816.3	2819.3	2813.3	2814.8
5°	2817.8	2814.8	2816.3	2817.8	2819.3	2816.3	2816.3	2816.3	2819.3	2816.3	2817.8
7.5°	2811.8	2810.2	2814.8	2817.8	2816.3	2814.8	2817.8	2816.3	2819.3	2817.8	2820.8
10°	2799.7	2801.2	2804.2	2808.7	2810.2	2811.8	2814.8	2814.8	2819.3	2813.3	2816.3
12.5°	2781.6	2787.6	2795.2	2798.2	2804.2	2804.2	2807.2	2808.7	2811.8	2810.2	2814.8
15°	2758.9	2766.5	2775.5	2783.1	2790.6	2795.2	2799.7	2801.2	2805.7	2801.2	2802.7
17.5°	2731.7	2740.8	2754.4	2763.4	2775.5	2780.1	2786.1	2789.1	2793.6	2790.6	2792.1
20°	2694.0	2704.6	2719.6	2733.2	2740.8	2751.3	2758.9	2763.4	2766.5	2763.4	2764.9
22.5°	2641.1	2656.2	2675.9	2686.4	2701.5	2710.6	2712.1	2722.7	2730.2	2722.7	2725.7
25°	2579.2	2594.3	2609.4	2632.1	2645.7	2656.2	2666.8	2668.3	2675.9	2674.3	2672.8
27.5°	2476.5	2496.2	2521.8	2540.0	2558.1	2574.7	2586.8	2589.8	2597.3	2594.3	2595.8
30°	2336.1	2357.2	2381.4	2410.1	2435.8	2452.3	2467.5	2478.0	2485.6	2481.1	2479.5
32.5°	2136.8	2157.9	2183.6	2212.3	2242.5	2266.6	2284.7	2298.3	2307.4	2304.4	2296.8
35°	1908.8	1914.8	1931.4	1954.1	1979.7	2005.4	2022.0	2037.1	2047.6	2050.7	2050.7
37.5°	1674.7	1655.1	1643.0	1643.0	1658.1	1668.6	1683.7	1692.8	1709.4	1715.4	1720.0
40°	1448.1	1402.8	1360.6	1328.9	1307.7	1306.2	1306.2	1310.7	1325.8	1345.5	1363.6
42.5°	1245.8	1173.3	1108.4	1049.5	1007.2	983.1	972.5	974.0	986.1	1004.2	1034.4
45°	1084.2	993.6	912.1	841.1	783.7	746.0	727.9	726.3	735.4	756.5	789.8
47.5°	958.9	862.2	770.1	688.6	626.7	585.9	564.8	558.7	564.8	584.4	623.7
50°	854.7	755.1	659.9	575.3	508.9	466.6	447.0	439.4	447.0	463.6	502.8
52.5°	758.0	655.4	566.3	484.7	413.8	377.5	356.4	351.8	356.4	376.0	407.7
55°	646.3	558.7	471.1	389.6	327.7	291.5	274.8	270.3	274.8	293.0	326.2
57.5°	536.1	460.6	383.6	309.6	256.7	225.0	209.9	203.8	214.4	226.5	265.8
60°	433.4	373.0	308.0	243.1	199.3	170.6	158.5	157.0	160.1	175.2	202.3
62.5°	339.8	289.9	238.6	185.7	149.5	137.4	122.3	120.8	123.8	132.9	154.0
65°	244.6	212.9	173.7	135.9	107.2	90.6	84.6	86.1	89.1	95.1	114.8
67.5°	170.6	148.0	120.8	95.1	74.0	66.4	60.4	58.9	60.4	71.0	81.5
70°	114.8	101.2	81.5	72.5	51.4	40.8	42.3	37.8	43.8	43.8	52.8
72.5°	75.5	66.4	54.4	42.3	36.2	28.7	28.7	27.2	30.2	31.7	39.3
75°	39.3	30.2	30.2	21.1	15.1	7.5	13.6	12.1	10.6	12.1	15.1
77.5°	27.2	22.6	21.1	16.6	15.1	12.1	12.1	12.1	12.1	13.6	15.1
80°	16.6	16.6	12.1	10.6	9.1	7.5	9.1	9.1	9.1	9.1	10.6
82.5°	10.6	9.1	9.1	7.5	7.5	6.0	6.0	6.0	6.0	6.0	9.1
85°	9.1	6.0	6.0	4.5	6.0	10.6	4.5	6.0	6.0	6.0	4.5
87.5°	3.0	4.5	4.5	4.5	3.0	1.5	3.0	4.5	4.5	7.5	6.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3
2.5°	2817.8	2819.3	2819.3	2817.8	2817.8	2814.8	2820.8	2816.3	2817.8	2823.8	2819.3
5°	2820.8	2822.3	2822.3	2820.8	2820.8	2820.8	2822.3	2822.3	2820.8	2819.3	2822.3
7.5°	2826.9	2825.4	2825.4	2822.3	2822.3	2819.3	2822.3	2817.8	2820.8	2817.8	2822.3
10°	2819.3	2820.8	2819.3	2817.8	2817.8	2816.3	2816.3	2811.8	2813.3	2808.7	2811.8
12.5°	2814.8	2813.3	2813.3	2810.2	2807.2	2804.2	2802.7	2798.2	2798.2	2787.6	2792.1
15°	2802.7	2804.2	2799.7	2793.6	2790.6	2783.1	2780.1	2774.0	2768.0	2760.4	2761.9
17.5°	2792.1	2787.6	2781.6	2775.5	2763.4	2757.4	2751.3	2742.3	2739.3	2730.2	2727.2
20°	2760.4	2757.4	2749.9	2739.3	2731.7	2718.1	2712.1	2703.0	2695.5	2686.4	2681.9
22.5°	2719.6	2716.6	2707.6	2697.0	2684.9	2678.9	2672.8	2656.2	2648.7	2639.6	2638.1
25°	2668.3	2663.8	2654.7	2642.6	2636.6	2620.0	2613.9	2601.8	2598.9	2589.8	2588.3
27.5°	2589.8	2583.7	2573.2	2558.1	2547.5	2536.9	2530.9	2521.8	2518.8	2509.7	2508.3
30°	2472.0	2464.4	2443.3	2437.3	2419.1	2408.6	2408.6	2396.5	2398.0	2392.0	2392.0
32.5°	2286.3	2274.2	2257.6	2245.5	2233.4	2227.4	2227.4	2222.8	2225.9	2225.9	2228.9
35°	2040.1	2023.5	2014.4	2006.9	2006.9	2012.9	2031.1	2035.6	2044.7	2052.2	2058.2
37.5°	1724.5	1723.0	1733.6	1742.6	1765.3	1791.0	1822.7	1849.9	1875.5	1893.6	1911.7
40°	1383.2	1421.0	1451.2	1493.5	1528.2	1578.0	1635.4	1682.2	1726.0	1757.7	1791.0
42.5°	1079.7	1128.0	1191.5	1253.4	1315.3	1383.2	1458.7	1523.7	1581.1	1624.8	1659.6
45°	841.1	907.5	984.6	1063.1	1143.1	1227.7	1306.2	1372.7	1433.1	1478.4	1513.1
47.5°	678.0	750.5	838.1	924.2	1014.8	1103.9	1191.5	1248.8	1298.7	1334.9	1366.6
50°	560.2	637.3	729.4	827.5	918.1	1007.2	1082.7	1138.6	1179.4	1211.1	1230.7
52.5°	468.1	549.7	647.8	746.0	836.6	918.1	986.1	1028.4	1061.6	1084.2	1102.3
55°	386.6	465.1	557.2	649.3	738.4	815.4	871.3	903.0	928.7	942.3	952.8
57.5°	315.6	388.1	472.7	557.2	634.2	697.7	741.5	773.2	785.2	795.8	794.3
60°	247.7	315.6	392.6	465.1	531.5	582.9	614.6	632.7	641.8	646.3	643.3
62.5°	194.8	256.7	315.6	379.0	427.4	471.1	501.4	501.4	505.9	507.4	511.9
65°	145.0	191.8	243.1	289.9	329.2	357.9	374.5	379.0	385.1	383.6	380.5
67.5°	107.2	142.0	179.7	214.4	241.6	259.7	271.8	282.4	280.9	277.9	276.3
70°	74.0	96.7	129.9	151.0	170.6	188.8	191.8	193.3	194.8	196.3	193.3
72.5°	51.4	67.9	86.1	104.2	116.3	123.8	131.4	132.9	132.9	132.9	131.4
75°	25.7	34.7	51.4	58.9	69.5	72.5	78.5	78.5	83.1	77.0	75.5
77.5°	22.6	27.2	36.2	42.3	46.8	51.4	52.8	57.4	55.9	52.8	54.4
80°	13.6	16.6	22.6	25.7	31.7	33.2	34.7	36.2	34.7	36.2	36.2
82.5°	10.6	12.1	15.1	15.1	19.6	19.6	21.1	21.1	22.6	22.6	22.6
85°	6.0	10.6	9.1	18.1	12.1	12.1	15.1	18.1	15.1	15.1	18.1
87.5°	6.0	6.0	4.5	6.0	6.0	6.0	7.5	9.1	9.1	10.6	9.1
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: P249577

CATALOG NUMBER: LSR8B60D010 EC8B60935 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2813.3	2813.3	2813.3	2813.3
2.5°	2817.8	2820.8	2816.3	2814.8
5°	2822.3	2822.3	2819.3	2819.3
7.5°	2822.3	2822.3	2817.8	2814.8
10°	2810.2	2810.2	2805.7	2802.7
12.5°	2787.6	2787.6	2786.1	2781.6
15°	2758.9	2758.9	2752.9	2748.3
17.5°	2719.6	2722.7	2715.1	2715.1
20°	2677.4	2675.9	2669.8	2666.8
22.5°	2633.6	2630.6	2629.0	2620.0
25°	2586.8	2583.7	2579.2	2574.7
27.5°	2506.7	2505.2	2500.7	2494.7
30°	2384.4	2382.9	2376.9	2376.9
32.5°	2225.9	2224.3	2218.3	2219.8
35°	2061.2	2067.3	2064.3	2058.2
37.5°	1923.8	1928.4	1931.4	1928.4
40°	1809.1	1822.7	1824.2	1827.2
42.5°	1686.8	1704.9	1710.9	1713.9
45°	1540.3	1556.9	1570.5	1567.5
47.5°	1390.8	1402.8	1414.9	1405.9
50°	1247.3	1254.9	1259.4	1259.4
52.5°	1111.4	1111.4	1109.9	1111.4
55°	955.9	955.9	949.9	952.8
57.5°	792.8	795.8	791.3	783.7
60°	641.8	634.2	631.2	626.7
62.5°	499.8	499.8	489.3	502.8
65°	374.5	370.0	365.4	363.9
67.5°	271.8	270.3	265.8	264.3
70°	191.8	185.7	184.2	181.2
72.5°	128.4	128.4	125.3	125.3
75°	78.5	71.0	69.5	71.0
77.5°	54.4	52.8	52.8	51.4
80°	36.2	34.7	37.8	33.2
82.5°	22.6	24.2	22.6	24.2
85°	15.1	18.1	16.6	16.6
87.5°	9.1	9.1	9.1	9.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)