

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: P248497

Luminaire Tested: **LSR8B60D010 EC8B60935 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248497
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: LSR8B60D010 EC8B60935 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5434.0 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

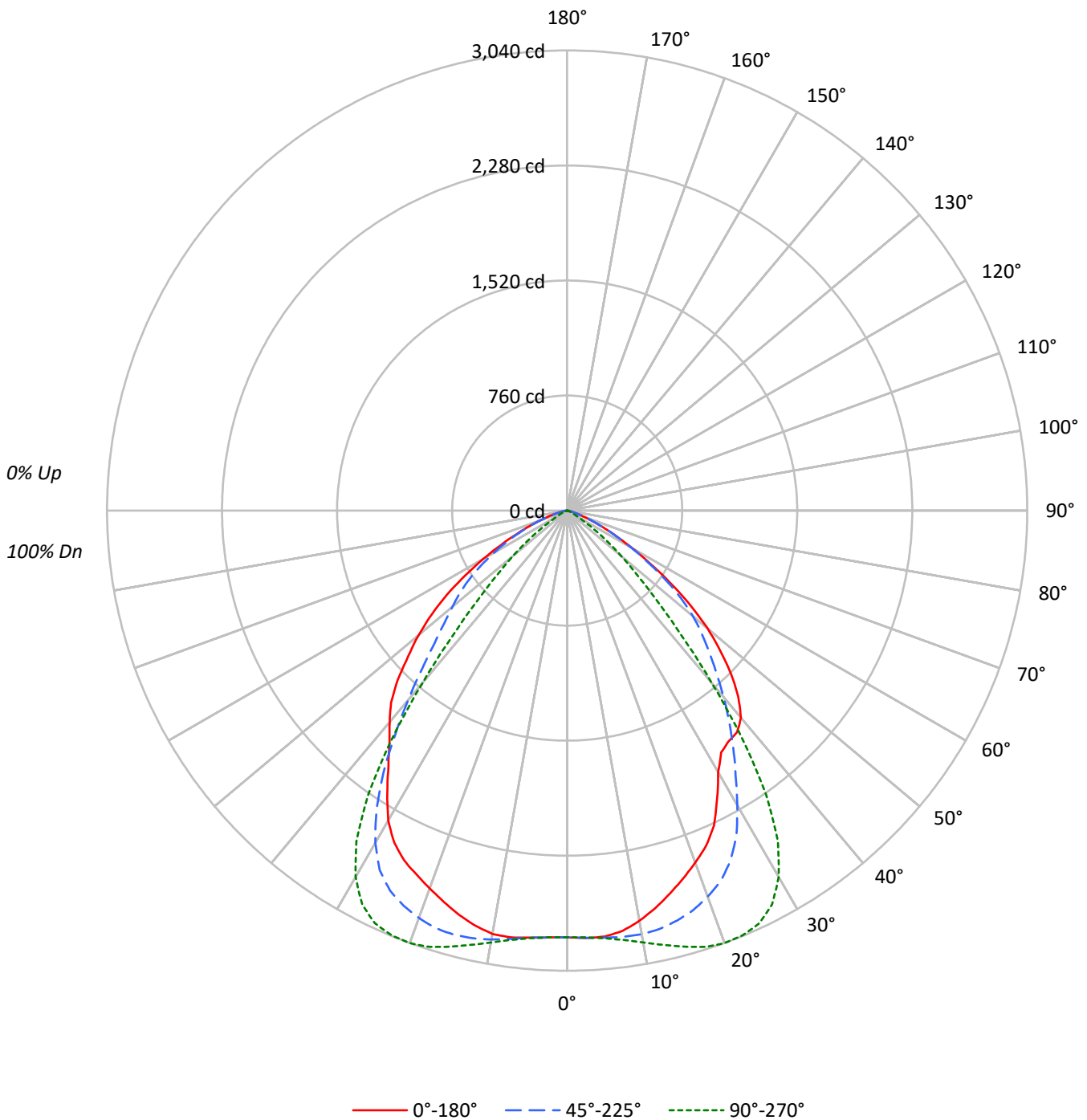
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	86928	86928	86928
5°	87445	87767	87674
10°	86158	90705	88923
15°	83641	95201	88225
20°	81215	99772	87154
25°	78096	102328	86751
30°	71071	99524	84178
35°	70014	86235	77449
40°	71918	59809	73419
45°	66949	36148	69038
50°	58071	22322	61516
55°	44563	11666	52208
60°	30361	4706	39403
65°	18883	2401	27187
70°	10251	1488	16589
75°	5349	715	9805
80°	2397	799	5310
85°	1592	531	4776



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.1	5.0
10°-20°	803.1	14.8
20°-30°	1225.2	22.5
30°-40°	1278.5	23.5
40°-50°	960.3	17.7
50°-60°	590.9	10.9
60°-70°	240.5	4.4
70°-80°	56.7	1.0
80°-90°	7.8	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°	2299.4	42.3
0°-40°	3577.9	65.8
0°-60°	5129.1	94.4
0°-90°	5434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5434.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2819	2819	2819	2819	2819	
5°	2825	2832	2835	2832	2832	267
15°	2620	2804	2982	2900	2764	738
25°	2295	2553	3008	2770	2550	1043
35°	1860	1912	2291	2117	2057	1174
45°	1535	1329	829	1237	1583	1171
55°	829	787	217	787	971	745
65°	259	262	33	352	373	270
75°	45	45	6	79	82	54
85°	4	4	2	10	14	6
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°	2819.0	2819.0	2819.0	2819.0	2819.0	2819.0	2819.0	2819.0	2819.0	2819.0	2819.0
2.5°	2826.5	2822.0	2826.5	2826.5	2828.0	2825.0	2826.5	2828.0	2825.0	2825.0	2825.0
5°	2825.0	2822.0	2825.0	2823.5	2826.5	2826.5	2829.5	2829.5	2832.4	2832.4	2836.9
7.5°	2801.0	2795.1	2801.0	2805.5	2808.5	2814.5	2822.0	2828.0	2833.9	2839.9	2847.4
10°	2751.6	2751.6	2756.1	2765.1	2774.1	2784.6	2798.0	2813.0	2828.0	2841.4	2854.9
12.5°	2690.3	2685.8	2694.8	2706.8	2720.2	2736.7	2757.6	2780.1	2804.0	2830.9	2851.9
15°	2620.0	2615.5	2626.0	2637.9	2654.4	2678.3	2703.8	2733.7	2768.1	2804.0	2838.4
17.5°	2548.2	2546.7	2557.1	2573.6	2587.1	2612.5	2645.4	2681.3	2720.2	2768.1	2813.0
20°	2474.9	2473.4	2483.8	2497.3	2515.2	2539.2	2572.1	2614.0	2660.4	2714.3	2766.6
22.5°	2398.5	2400.0	2409.0	2424.0	2438.9	2464.3	2498.8	2540.7	2591.5	2649.9	2708.3
25°	2295.3	2287.8	2299.8	2314.8	2340.2	2361.1	2394.1	2438.9	2491.3	2552.7	2621.5
27.5°	2145.6	2144.1	2154.7	2168.1	2190.5	2216.0	2251.9	2298.3	2353.6	2421.0	2488.3
30°	1996.0	1999.0	2003.5	2017.0	2031.9	2057.4	2093.3	2132.2	2184.6	2248.9	2320.7
32.5°	1894.3	1894.3	1900.3	1909.2	1919.7	1933.2	1958.6	1987.0	2027.5	2072.4	2124.7
35°	1859.9	1853.9	1859.9	1861.4	1862.9	1865.9	1870.3	1879.3	1892.8	1912.2	1931.7
37.5°	1844.9	1840.4	1840.4	1834.4	1826.9	1818.0	1806.0	1792.5	1777.6	1758.1	1743.2
40°	1786.6	1783.6	1780.6	1774.6	1758.1	1740.2	1720.7	1689.3	1654.9	1607.0	1559.1
42.5°	1674.3	1671.3	1669.8	1657.9	1642.9	1622.0	1599.5	1566.6	1523.2	1461.9	1393.0
45°	1535.2	1529.2	1524.7	1514.2	1503.7	1485.8	1464.9	1434.9	1391.5	1328.7	1246.4
47.5°	1373.6	1370.6	1369.1	1364.6	1354.1	1343.6	1330.2	1306.3	1267.3	1207.5	1122.2
50°	1210.5	1204.5	1207.5	1206.0	1201.5	1194.0	1185.0	1168.6	1138.7	1084.8	1007.0
52.5°	1023.4	1023.4	1022.0	1026.4	1027.9	1026.4	1027.9	1010.0	984.6	944.1	878.3
55°	828.9	828.9	833.4	839.4	845.4	846.9	845.4	837.9	819.9	787.0	728.7
57.5°	646.4	643.4	652.4	661.3	667.4	673.3	668.8	662.8	652.4	625.4	580.5
60°	492.3	492.3	498.2	504.2	510.2	516.2	514.7	513.2	504.2	486.3	450.4
62.5°	362.1	363.6	363.6	368.1	374.1	380.1	384.5	380.1	375.6	363.6	339.6
65°	258.8	257.3	258.8	263.3	267.8	273.8	276.8	275.3	270.8	261.8	243.9
67.5°	173.6	172.1	178.0	179.5	182.5	188.5	187.0	188.5	187.0	179.5	164.6
70°	113.7	110.7	113.7	112.2	116.7	118.2	121.2	122.7	121.2	116.7	112.2
72.5°	70.3	68.8	70.3	71.8	73.3	74.8	77.8	77.8	76.3	73.3	67.3
75°	44.9	40.4	41.9	38.9	41.9	41.9	44.9	46.4	44.9	44.9	41.9
77.5°	26.9	26.9	26.9	26.9	26.9	26.9	26.9	28.4	29.9	26.9	25.4
80°	13.5	13.5	15.0	15.0	15.0	16.5	15.0	15.0	15.0	16.5	12.0
82.5°	10.5	9.0	9.0	9.0	10.5	9.0	9.0	9.0	9.0	9.0	9.0
85°	4.5	6.0	4.5	3.0	4.5	4.5	6.0	4.5	4.5	4.5	6.0
87.5°	1.5	1.5	0.0	0.0	0.0	1.5	0.0	1.5	1.5	3.0	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°	2819.0	2819.0	2819.0	2819.0	2819.0	2819.0	2819.0	2819.0	2819.0	2819.0	2819.0
2.5°	2826.5	2823.5	2823.5	2822.0	2825.0	2822.0	2823.5	2822.0	2822.0	2825.0	2822.0
5°	2836.9	2838.4	2835.4	2833.9	2838.4	2838.4	2838.4	2835.4	2835.4	2836.9	2835.4
7.5°	2851.9	2854.9	2856.4	2857.9	2860.9	2862.4	2862.4	2860.9	2859.4	2863.9	2857.9
10°	2868.4	2872.9	2881.8	2886.3	2893.8	2893.8	2896.8	2896.8	2893.8	2896.8	2895.3
12.5°	2862.4	2889.3	2904.3	2914.7	2925.2	2934.2	2937.2	2938.7	2937.2	2943.2	2937.2
15°	2872.9	2895.3	2919.2	2937.2	2956.6	2967.1	2970.1	2982.1	2985.1	2986.6	2977.6
17.5°	2856.4	2896.8	2922.2	2949.2	2977.6	2997.0	3015.0	3022.5	3024.0	3027.0	3015.0
20°	2819.0	2863.9	2902.8	2941.7	2974.6	3004.5	3019.5	3040.4	3034.5	3046.4	3030.0
22.5°	2768.1	2819.0	2868.4	2919.2	2953.7	2989.6	3021.0	3035.9	3043.4	3043.4	3025.5
25°	2687.3	2747.2	2801.0	2853.4	2905.8	2949.2	2985.1	3007.5	3012.0	3010.5	2989.6
27.5°	2561.6	2626.0	2688.8	2748.7	2813.0	2863.9	2905.8	2932.7	2940.2	2940.2	2917.7
30°	2388.1	2456.9	2518.2	2590.0	2655.9	2712.8	2771.1	2795.1	2808.5	2808.5	2783.1
32.5°	2181.6	2239.9	2296.8	2367.1	2438.9	2503.3	2558.6	2591.5	2608.0	2606.5	2584.1
35°	1957.1	1985.5	2029.0	2081.3	2145.6	2205.5	2259.4	2290.8	2319.2	2317.7	2296.8
37.5°	1732.7	1725.2	1729.7	1749.1	1789.5	1831.4	1873.3	1903.3	1927.2	1937.7	1933.2
40°	1512.7	1473.8	1436.4	1423.0	1425.9	1440.9	1463.4	1485.8	1512.7	1526.2	1532.2
42.5°	1315.2	1249.4	1183.5	1134.2	1105.7	1096.8	1107.2	1114.7	1131.2	1150.6	1170.1
45°	1156.6	1068.4	981.6	905.3	857.4	828.9	823.0	828.9	837.9	857.4	882.8
47.5°	1026.4	923.2	826.0	740.6	670.3	632.9	622.5	619.5	628.4	646.4	680.8
50°	911.2	808.0	700.3	601.5	528.2	486.3	471.3	465.3	475.8	489.3	520.7
52.5°	785.5	683.8	573.1	477.3	401.0	357.6	341.1	332.2	338.1	356.1	387.5
55°	649.4	555.1	454.9	356.1	282.8	242.4	222.9	217.0	222.9	242.4	273.8
57.5°	513.2	433.9	350.1	257.3	191.5	151.1	131.7	125.7	142.2	149.6	182.5
60°	401.0	336.7	264.8	188.5	131.7	100.2	80.8	76.3	83.8	97.2	124.2
62.5°	300.8	260.3	203.5	134.7	97.2	64.3	53.9	49.4	53.9	64.3	85.3
65°	218.5	187.0	142.2	98.7	65.8	47.9	35.9	32.9	37.4	44.9	62.9
67.5°	149.6	125.7	98.7	68.8	44.9	29.9	25.4	25.4	26.9	32.9	46.4
70°	97.2	82.3	62.9	44.9	29.9	22.4	19.4	16.5	19.4	23.9	31.4
72.5°	61.4	52.4	40.4	31.4	22.4	16.5	13.5	12.0	15.0	17.9	23.9
75°	37.4	28.4	20.9	16.5	12.0	12.0	12.0	6.0	7.5	12.0	15.0
77.5°	22.4	19.4	16.5	13.5	10.5	6.0	6.0	6.0	7.5	9.0	13.5
80°	12.0	10.5	7.5	7.5	6.0	4.5	6.0	4.5	3.0	7.5	9.0
82.5°	7.5	6.0	6.0	6.0	7.5	3.0	4.5	3.0	4.5	6.0	4.5
85°	4.5	4.5	4.5	3.0	7.5	3.0	3.0	1.5	1.5	3.0	3.0
87.5°	0.0	1.5	1.5	0.0	1.5	0.0	1.5	1.5	1.5	1.5	1.5
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°	2819.0	2819.0	2819.0	2819.0	2819.0	2819.0	2819.0	2819.0	2819.0	2819.0	2819.0
2.5°	2823.5	2822.0	2823.5	2822.0	2822.0	2822.0	2823.5	2823.5	2822.0	2822.0	2825.0
5°	2835.4	2835.4	2835.4	2833.9	2832.4	2832.4	2835.4	2835.4	2830.9	2835.4	2835.4
7.5°	2860.9	2856.4	2860.9	2854.9	2851.9	2853.4	2854.9	2851.9	2848.9	2850.4	2850.4
10°	2893.8	2889.3	2889.3	2884.8	2880.3	2877.3	2874.4	2866.9	2859.4	2857.9	2851.9
12.5°	2932.7	2925.2	2920.7	2911.7	2904.3	2893.8	2884.8	2872.9	2857.9	2847.4	2836.9
15°	2971.6	2959.6	2949.2	2934.2	2917.7	2899.8	2880.3	2860.9	2836.9	2816.0	2798.0
17.5°	3003.0	2986.6	2967.1	2943.2	2919.2	2892.3	2863.9	2835.4	2801.0	2774.1	2753.1
20°	3013.5	2989.6	2964.1	2932.7	2901.3	2863.9	2828.0	2790.6	2751.6	2723.2	2699.3
22.5°	3000.0	2971.6	2940.2	2907.3	2865.4	2825.0	2783.1	2739.7	2705.3	2666.4	2643.9
25°	2962.6	2928.2	2893.8	2854.9	2814.5	2769.6	2724.7	2679.8	2637.9	2617.0	2588.6
27.5°	2886.3	2848.9	2811.5	2771.1	2724.7	2679.8	2633.5	2590.0	2554.2	2525.7	2509.3
30°	2751.6	2708.3	2664.9	2621.5	2581.1	2534.7	2491.3	2455.4	2419.5	2397.0	2380.6
32.5°	2545.2	2506.3	2462.9	2421.0	2383.6	2344.7	2308.8	2277.3	2251.9	2236.9	2224.9
35°	2266.9	2227.9	2195.0	2165.1	2133.7	2117.2	2094.8	2076.8	2066.3	2060.4	2058.9
37.5°	1916.7	1894.3	1883.8	1877.8	1871.8	1867.4	1870.3	1877.8	1883.8	1894.3	1906.2
40°	1542.7	1562.1	1568.1	1589.0	1608.5	1633.9	1662.4	1695.3	1722.2	1756.6	1780.6
42.5°	1201.5	1237.4	1279.3	1324.2	1372.1	1418.5	1475.3	1527.7	1575.6	1619.0	1656.4
45°	923.2	978.5	1041.4	1105.7	1170.1	1237.4	1306.3	1370.6	1427.4	1473.8	1512.7
47.5°	719.7	781.1	861.9	941.2	1019.0	1098.3	1174.6	1241.9	1289.8	1334.7	1369.1
50°	570.1	640.4	728.7	819.9	905.3	989.0	1069.8	1132.7	1180.6	1216.5	1241.9
52.5°	441.4	525.2	615.0	710.7	802.0	893.3	968.1	1026.4	1065.4	1096.8	1116.2
55°	329.2	411.5	507.3	606.0	698.8	787.0	857.4	908.3	942.7	960.6	971.1
57.5°	237.9	312.7	408.5	507.3	591.0	674.8	731.7	778.1	797.5	808.0	812.5
60°	173.6	242.4	327.7	413.0	492.3	559.6	609.0	640.4	655.4	661.3	659.8
62.5°	127.2	187.0	260.3	332.2	396.5	451.9	490.8	511.7	519.2	522.2	517.7
65°	97.2	143.6	206.5	261.8	311.2	351.6	380.1	393.5	398.0	396.5	393.5
67.5°	71.8	107.7	154.1	196.0	231.9	263.3	278.3	290.3	293.3	288.8	284.3
70°	50.9	79.3	112.2	140.7	167.6	185.5	202.0	203.5	203.5	202.0	199.0
72.5°	35.9	55.4	76.3	95.8	112.2	125.7	131.7	136.2	134.7	133.2	130.2
75°	23.9	34.4	55.4	59.9	74.8	79.3	85.3	85.3	86.8	82.3	82.3
77.5°	15.0	23.9	32.9	38.9	44.9	50.9	53.9	53.9	55.4	53.9	53.9
80°	9.0	15.0	17.9	26.9	26.9	31.4	32.9	34.4	31.4	35.9	31.4
82.5°	6.0	9.0	13.5	13.5	16.5	19.4	19.4	20.9	20.9	19.4	19.4
85°	4.5	6.0	7.5	9.0	9.0	10.5	9.0	9.0	10.5	12.0	10.5
87.5°	1.5	3.0	1.5	3.0	3.0	6.0	4.5	4.5	4.5	6.0	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



TEST NUMBER: P248497

CATALOG NUMBER: LSR8B60D010 EC8B60935 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2819.0	2819.0	2819.0	2819.0
2.5°	2822.0	2823.5	2822.0	2822.0
5°	2835.4	2833.9	2835.4	2832.4
7.5°	2845.9	2845.9	2844.4	2844.4
10°	2845.9	2839.9	2839.9	2839.9
12.5°	2823.5	2816.0	2811.5	2808.5
15°	2784.6	2771.1	2765.1	2763.6
17.5°	2733.7	2721.7	2714.3	2709.8
20°	2675.3	2663.4	2654.4	2655.9
22.5°	2624.5	2611.0	2605.0	2602.0
25°	2573.6	2557.1	2552.7	2549.7
27.5°	2491.3	2482.3	2477.8	2473.4
30°	2365.6	2361.1	2353.6	2364.1
32.5°	2220.5	2213.0	2207.0	2211.5
35°	2060.4	2055.9	2060.4	2057.4
37.5°	1913.7	1918.2	1924.2	1927.2
40°	1798.5	1815.0	1821.0	1823.9
42.5°	1683.3	1702.8	1714.7	1722.2
45°	1541.2	1560.6	1574.1	1583.1
47.5°	1394.5	1411.0	1424.4	1423.0
50°	1261.4	1270.3	1276.3	1282.3
52.5°	1126.7	1126.7	1128.2	1128.2
55°	974.1	971.1	969.6	971.1
57.5°	806.5	803.5	802.0	797.5
60°	653.9	644.9	638.9	638.9
62.5°	511.7	501.2	496.8	495.3
65°	384.5	383.0	374.1	372.6
67.5°	278.3	272.3	266.3	267.8
70°	196.0	187.0	187.0	184.0
72.5°	127.2	122.7	121.2	121.2
75°	79.3	79.3	76.3	82.3
77.5°	52.4	52.4	50.9	52.4
80°	31.4	31.4	31.4	29.9
82.5°	19.4	20.9	19.4	19.4
85°	10.5	12.0	9.0	13.5
87.5°	6.0	7.5	6.0	7.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)