

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: P249298

Luminaire Tested: **LSR8B60D010 EC8B60827 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249298  
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 EC8B60827 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5798.0 lumens  
Efficiency: N/A  
Efficacy: 97.4 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

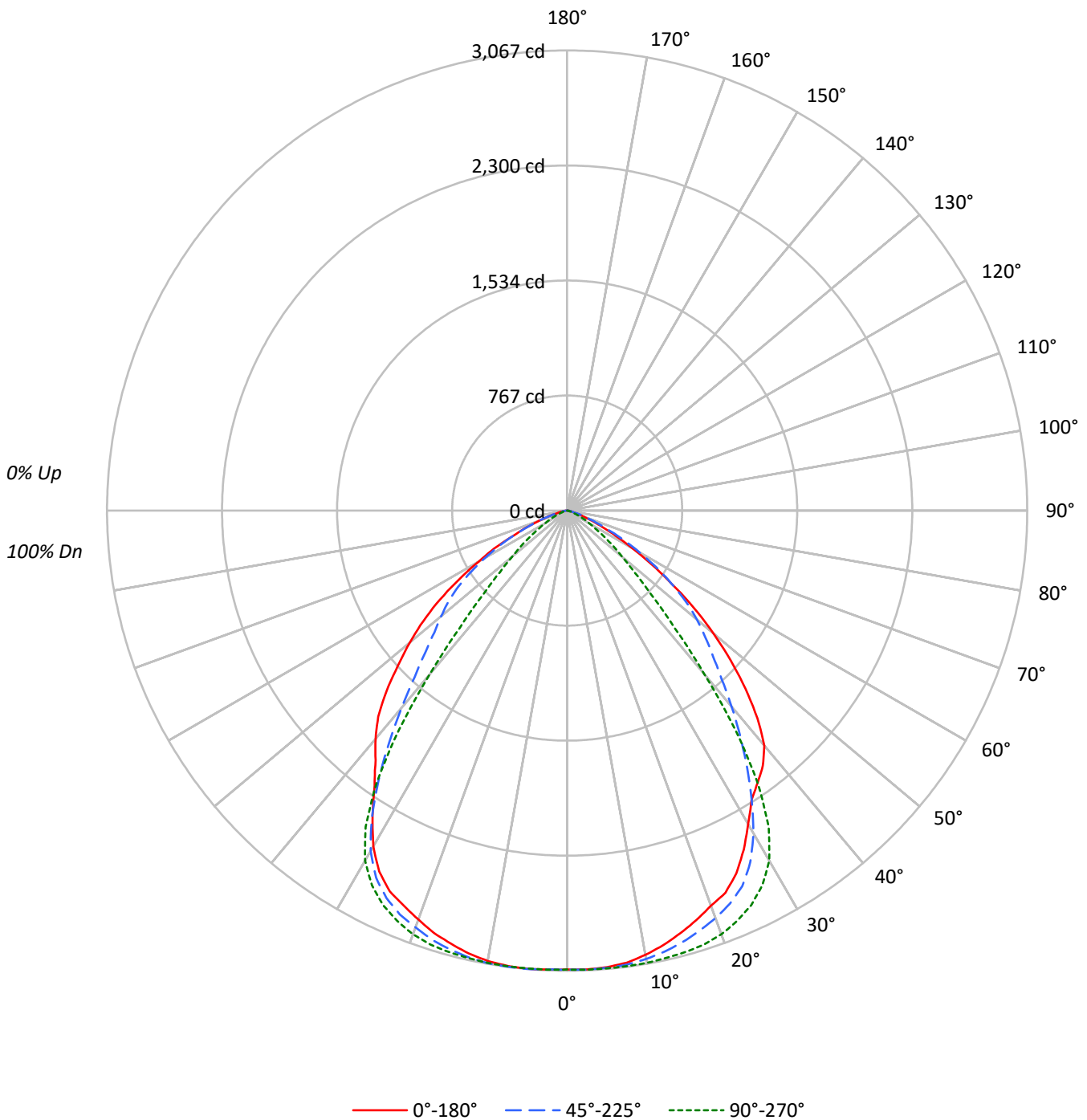
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	94331	94331	94331
5°	94540	94794	94896
10°	94143	95840	95426
15°	93100	97241	95405
20°	91981	98607	95161
25°	90787	98721	95257
30°	85891	95946	92029
35°	83325	83386	84251
40°	82295	57374	79981
45°	73329	34442	74327
50°	60973	22921	65699
55°	45730	15800	55702
60°	30990	10534	42030
65°	18694	6830	28872
70°	10359	3706	17761
75°	4694	1561	9198
80°	4084	1740	6411
85°	4635	2300	6404



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.0	5.0
10°-20°	847.9	14.6
20°-30°	1286.9	22.2
30°-40°	1351.6	23.3
40°-50°	1013.4	17.5
50°-60°	650.2	11.2
60°-70°	278.1	4.8
70°-80°	65.7	1.1
80°-90°	12.2	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°	2426.7	41.9
0°-40°	3778.4	65.2
0°-60°	5441.9	93.9
0°-90°	5798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5798.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3059	3059	3059	3059	3059	
5°	3054	3059	3062	3067	3066	290
15°	2916	2977	3046	3026	2988	823
25°	2668	2762	2902	2849	2800	1219
35°	2214	2090	2215	2189	2238	1389
45°	1682	1374	790	1335	1704	1288
55°	851	851	294	887	1036	772
65°	256	302	94	389	396	273
75°	39	46	13	79	77	57
85°	13	8	6	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°	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1
2.5°	3060.8	3064.1	3062.4	3062.4	3060.8	3062.4	3062.4	3065.7	3065.7	3062.4	3060.8
5°	3054.2	3057.5	3057.5	3054.2	3054.2	3062.4	3057.5	3060.8	3060.8	3059.1	3059.1
7.5°	3039.5	3039.5	3046.0	3041.1	3041.1	3046.0	3044.4	3047.6	3050.9	3052.6	3052.6
10°	3006.6	3009.9	3011.5	3011.5	3013.2	3018.1	3021.4	3028.0	3031.2	3034.5	3036.2
12.5°	2965.6	2970.5	2972.1	2970.5	2975.4	2982.0	2990.2	2998.4	3003.3	3009.9	3014.8
15°	2916.3	2916.3	2919.6	2924.5	2927.8	2937.6	2945.8	2955.7	2968.8	2977.1	2985.3
17.5°	2862.1	2865.4	2870.3	2870.3	2876.9	2893.3	2898.2	2913.0	2927.8	2936.0	2952.4
20°	2803.0	2806.3	2811.2	2814.5	2822.7	2835.8	2845.7	2858.8	2875.2	2890.0	2906.4
22.5°	2757.0	2750.4	2753.7	2757.0	2765.2	2776.7	2788.2	2804.6	2821.0	2835.8	2852.3
25°	2668.3	2670.0	2674.9	2678.2	2688.1	2697.9	2711.0	2730.7	2745.5	2761.9	2780.0
27.5°	2548.5	2550.1	2558.3	2558.3	2566.5	2582.9	2591.1	2607.6	2627.3	2643.7	2665.1
30°	2412.2	2415.4	2415.4	2422.0	2426.9	2435.2	2443.4	2459.8	2469.6	2484.4	2514.0
32.5°	2287.4	2290.6	2289.0	2287.4	2282.5	2280.8	2279.2	2282.5	2285.7	2290.6	2302.1
35°	2213.5	2205.3	2198.7	2187.2	2174.1	2157.7	2142.9	2123.2	2105.1	2090.3	2073.9
37.5°	2142.9	2141.2	2131.4	2114.9	2088.7	2059.1	2024.7	1982.0	1939.2	1893.3	1849.0
40°	2044.4	2039.4	2031.2	2008.2	1978.7	1942.5	1896.6	1844.0	1775.0	1704.4	1632.2
42.5°	1876.9	1878.5	1868.7	1850.6	1822.7	1788.2	1740.6	1683.1	1609.2	1525.5	1431.9
45°	1681.5	1681.5	1678.2	1663.4	1643.7	1615.8	1579.7	1532.0	1459.8	1374.4	1274.2
47.5°	1477.8	1479.5	1474.5	1471.3	1463.1	1445.0	1418.7	1382.6	1331.7	1249.6	1149.4
50°	1271.0	1271.0	1279.2	1277.5	1277.5	1271.0	1259.5	1238.1	1193.8	1128.1	1034.5
52.5°	1064.0	1067.3	1072.3	1078.8	1087.0	1100.2	1087.0	1077.2	1049.3	998.4	917.9
55°	850.6	853.9	862.1	873.6	883.4	896.6	899.8	899.8	885.0	850.6	789.8
57.5°	668.3	663.4	670.0	679.8	693.0	706.1	715.9	727.4	725.8	702.8	653.5
60°	502.5	504.1	509.0	518.9	528.7	540.2	553.4	563.2	568.2	556.7	525.5
62.5°	366.2	366.2	372.7	382.6	387.5	404.0	412.1	417.1	422.0	420.3	400.7
65°	256.2	259.4	262.7	267.7	272.6	282.4	287.4	297.2	300.5	302.1	287.4
67.5°	180.6	175.7	179.0	182.2	187.2	193.8	203.6	203.6	208.5	208.5	198.7
70°	114.9	114.9	116.6	121.5	124.8	126.4	129.7	133.0	137.9	136.3	136.3
72.5°	77.2	75.5	77.2	78.8	80.5	85.4	85.4	87.0	90.3	92.0	85.4
75°	39.4	41.1	44.3	42.7	47.6	44.3	46.0	50.9	49.3	46.0	46.0
77.5°	32.8	32.8	32.8	31.2	34.5	34.5	32.8	36.1	34.5	34.5	32.8
80°	23.0	24.6	23.0	21.3	23.0	21.3	21.3	21.3	21.3	21.3	19.7
82.5°	18.1	14.8	16.4	14.8	16.4	16.4	14.8	13.1	13.1	14.8	13.1
85°	13.1	9.8	11.5	11.5	9.8	9.8	9.8	9.8	9.8	8.2	8.2
87.5°	8.2	4.9	4.9	4.9	6.5	6.5	6.5	4.9	6.5	6.5	3.3
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°	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1
2.5°	3064.1	3062.4	3065.7	3064.1	3064.1	3062.4	3064.1	3062.4	3065.7	3059.1	3060.8
5°	3064.1	3060.8	3062.4	3064.1	3065.7	3062.4	3062.4	3062.4	3065.7	3062.4	3064.1
7.5°	3057.5	3055.8	3060.8	3064.1	3062.4	3060.8	3064.1	3062.4	3065.7	3064.1	3067.3
10°	3044.4	3046.0	3049.3	3054.2	3055.8	3057.5	3060.8	3060.8	3065.7	3059.1	3062.4
12.5°	3024.7	3031.2	3039.5	3042.7	3049.3	3049.3	3052.6	3054.2	3057.5	3055.8	3060.8
15°	3000.0	3008.2	3018.1	3026.3	3034.5	3039.5	3044.4	3046.0	3050.9	3046.0	3047.6
17.5°	2970.5	2980.3	2995.1	3004.9	3018.1	3023.0	3029.6	3032.9	3037.8	3034.5	3036.2
20°	2929.4	2940.9	2957.3	2972.1	2980.3	2991.8	3000.0	3004.9	3008.2	3004.9	3006.6
22.5°	2871.9	2888.4	2909.7	2921.2	2937.6	2947.5	2949.1	2960.6	2968.8	2960.6	2963.9
25°	2804.6	2821.0	2837.5	2862.1	2876.9	2888.4	2899.9	2901.5	2909.7	2908.1	2906.4
27.5°	2693.0	2714.3	2742.2	2761.9	2781.6	2799.7	2812.8	2816.1	2824.3	2821.0	2822.7
30°	2540.2	2563.3	2589.5	2620.7	2648.6	2666.7	2683.1	2694.6	2702.8	2697.9	2696.2
32.5°	2323.5	2346.5	2374.4	2405.6	2438.5	2464.7	2484.4	2499.2	2509.1	2505.8	2497.6
35°	2075.6	2082.1	2100.2	2124.8	2152.7	2180.6	2198.7	2215.1	2226.6	2229.9	2229.9
37.5°	1821.0	1799.7	1786.6	1786.6	1803.0	1814.5	1830.9	1840.7	1858.8	1865.4	1870.3
40°	1574.7	1525.5	1479.5	1445.0	1422.0	1420.4	1420.4	1425.3	1441.7	1463.1	1482.8
42.5°	1354.7	1275.9	1205.3	1141.2	1095.3	1069.0	1057.5	1059.1	1072.3	1092.0	1124.8
45°	1179.0	1080.5	991.8	914.6	852.2	811.2	791.5	789.8	799.7	822.7	858.8
47.5°	1042.7	937.6	837.4	748.8	681.5	637.1	614.1	607.6	614.1	635.5	678.2
50°	929.4	821.0	717.6	625.6	553.4	507.4	486.0	477.8	486.0	504.1	546.8
52.5°	824.3	712.6	615.8	527.1	449.9	410.5	387.5	382.6	387.5	408.9	443.4
55°	702.8	607.6	512.3	423.6	356.3	316.9	298.8	293.9	298.8	318.6	354.7
57.5°	582.9	500.8	417.1	336.6	279.2	244.6	228.3	221.7	233.2	246.3	289.0
60°	471.3	405.6	335.0	264.4	216.8	185.5	172.4	170.8	174.1	190.5	220.0
62.5°	369.5	315.3	259.4	202.0	162.6	149.4	133.0	131.4	134.6	144.5	167.5
65°	266.0	231.5	188.8	147.8	116.6	98.5	92.0	93.6	96.9	103.5	124.8
67.5°	185.5	160.9	131.4	103.5	80.5	72.2	65.7	64.0	65.7	77.2	88.7
70°	124.8	110.0	88.7	78.8	55.8	44.3	46.0	41.1	47.6	47.6	57.5
72.5°	82.1	72.2	59.1	46.0	39.4	31.2	31.2	29.6	32.8	34.5	42.7
75°	42.7	32.8	32.8	23.0	16.4	8.2	14.8	13.1	11.5	13.1	16.4
77.5°	29.6	24.6	23.0	18.1	16.4	13.1	13.1	13.1	13.1	14.8	16.4
80°	18.1	18.1	13.1	11.5	9.8	8.2	9.8	9.8	9.8	9.8	11.5
82.5°	11.5	9.8	9.8	8.2	8.2	6.5	6.5	6.5	6.5	6.5	9.8
85°	9.8	6.5	6.5	4.9	6.5	11.5	4.9	6.5	6.5	6.5	4.9
87.5°	3.3	4.9	4.9	4.9	3.3	1.6	3.3	4.9	4.9	8.2	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



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1
2.5°	3064.1	3065.7	3065.7	3064.1	3064.1	3060.8	3067.3	3062.4	3064.1	3070.6	3065.7
5°	3067.3	3069.0	3069.0	3067.3	3067.3	3067.3	3069.0	3069.0	3067.3	3065.7	3069.0
7.5°	3073.9	3072.3	3072.3	3069.0	3069.0	3065.7	3069.0	3064.1	3067.3	3064.1	3069.0
10°	3065.7	3067.3	3065.7	3064.1	3064.1	3062.4	3062.4	3057.5	3059.1	3054.2	3057.5
12.5°	3060.8	3059.1	3059.1	3055.8	3052.6	3049.3	3047.6	3042.7	3042.7	3031.2	3036.2
15°	3047.6	3049.3	3044.4	3037.8	3034.5	3026.3	3023.0	3016.4	3009.9	3001.7	3003.3
17.5°	3036.2	3031.2	3024.7	3018.1	3004.9	2998.4	2991.8	2982.0	2978.7	2968.8	2965.6
20°	3001.7	2998.4	2990.2	2978.7	2970.5	2955.7	2949.1	2939.3	2931.1	2921.2	2916.3
22.5°	2957.3	2954.0	2944.2	2932.7	2919.6	2913.0	2906.4	2888.4	2880.1	2870.3	2868.7
25°	2901.5	2896.6	2886.7	2873.6	2867.0	2849.0	2842.4	2829.2	2826.0	2816.1	2814.5
27.5°	2816.1	2809.6	2798.1	2781.6	2770.1	2758.6	2752.1	2742.2	2739.0	2729.1	2727.5
30°	2688.1	2679.8	2656.8	2650.3	2630.6	2619.1	2619.1	2605.9	2607.6	2601.0	2601.0
32.5°	2486.1	2472.9	2454.9	2441.7	2428.6	2422.0	2422.0	2417.1	2420.4	2420.4	2423.7
35°	2218.4	2200.4	2190.5	2182.3	2182.3	2188.8	2208.6	2213.5	2223.3	2231.5	2238.1
37.5°	1875.2	1873.6	1885.1	1894.9	1919.6	1947.5	1982.0	2011.5	2039.4	2059.1	2078.8
40°	1504.1	1545.2	1578.0	1624.0	1661.7	1715.9	1778.3	1829.2	1876.9	1911.4	1947.5
42.5°	1174.1	1226.6	1295.6	1362.9	1430.2	1504.1	1586.2	1656.8	1719.2	1766.8	1804.6
45°	914.6	986.9	1070.6	1156.0	1243.0	1335.0	1420.4	1492.6	1558.3	1607.6	1645.3
47.5°	737.3	816.1	911.3	1004.9	1103.5	1200.3	1295.6	1358.0	1412.1	1451.6	1486.1
50°	609.2	693.0	793.1	899.8	998.4	1095.3	1177.3	1238.1	1282.5	1316.9	1338.3
52.5°	509.0	597.7	704.4	811.2	909.7	998.4	1072.3	1118.2	1154.4	1179.0	1198.7
55°	420.3	505.8	605.9	706.1	803.0	886.7	947.4	982.0	1009.8	1024.6	1036.1
57.5°	343.2	422.0	514.0	605.9	689.7	758.6	806.3	840.7	853.9	865.4	863.7
60°	269.3	343.2	426.9	505.8	578.0	633.8	668.3	688.0	697.9	702.8	699.5
62.5°	211.8	279.2	343.2	412.1	464.7	512.3	545.2	545.2	550.1	551.7	556.7
65°	157.6	208.5	264.4	315.3	357.9	389.2	407.2	412.1	418.7	417.1	413.8
67.5°	116.6	154.4	195.4	233.2	262.7	282.4	295.6	307.1	305.4	302.1	300.5
70°	80.5	105.1	141.2	164.2	185.5	205.3	208.5	210.2	211.8	213.5	210.2
72.5°	55.8	73.9	93.6	113.3	126.4	134.6	142.9	144.5	144.5	144.5	142.9
75°	27.9	37.8	55.8	64.0	75.5	78.8	85.4	85.4	90.3	83.7	82.1
77.5°	24.6	29.6	39.4	46.0	50.9	55.8	57.5	62.4	60.7	57.5	59.1
80°	14.8	18.1	24.6	27.9	34.5	36.1	37.8	39.4	37.8	39.4	39.4
82.5°	11.5	13.1	16.4	16.4	21.3	21.3	23.0	23.0	24.6	24.6	24.6
85°	6.5	11.5	9.8	19.7	13.1	13.1	16.4	19.7	16.4	16.4	19.7
87.5°	6.5	6.5	4.9	6.5	6.5	6.5	8.2	9.8	9.8	11.5	9.8
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: P249298

CATALOG NUMBER: LSR8B60D010 EC8B60827 8LBDW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	3059.1	3059.1	3059.1	3059.1
2.5°	3064.1	3067.3	3062.4	3060.8
5°	3069.0	3069.0	3065.7	3065.7
7.5°	3069.0	3069.0	3064.1	3060.8
10°	3055.8	3055.8	3050.9	3047.6
12.5°	3031.2	3031.2	3029.6	3024.7
15°	3000.0	3000.0	2993.4	2988.5
17.5°	2957.3	2960.6	2952.4	2952.4
20°	2911.4	2909.7	2903.2	2899.9
22.5°	2863.8	2860.5	2858.8	2849.0
25°	2812.8	2809.6	2804.6	2799.7
27.5°	2725.8	2724.2	2719.2	2712.7
30°	2592.8	2591.1	2584.6	2584.6
32.5°	2420.4	2418.7	2412.2	2413.8
35°	2241.4	2248.0	2244.7	2238.1
37.5°	2092.0	2096.9	2100.2	2096.9
40°	1967.2	1982.0	1983.6	1986.9
42.5°	1834.2	1853.9	1860.5	1863.7
45°	1674.9	1693.0	1707.7	1704.4
47.5°	1512.3	1525.5	1538.6	1528.7
50°	1356.3	1364.5	1369.5	1369.5
52.5°	1208.6	1208.6	1206.9	1208.6
55°	1039.4	1039.4	1032.9	1036.1
57.5°	862.1	865.4	860.4	852.2
60°	697.9	689.7	686.4	681.5
62.5°	543.5	543.5	532.0	546.8
65°	407.2	402.3	397.4	395.7
67.5°	295.6	293.9	289.0	287.4
70°	208.5	202.0	200.3	197.0
72.5°	139.6	139.6	136.3	136.3
75°	85.4	77.2	75.5	77.2
77.5°	59.1	57.5	57.5	55.8
80°	39.4	37.8	41.1	36.1
82.5°	24.6	26.3	24.6	26.3
85°	16.4	19.7	18.1	18.1
87.5°	9.8	9.8	9.8	9.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)