

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: P249307

Luminaire Tested: **LSR8B60D010 EC8B60830 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249307  
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 EC8B60830 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5944.0 lumens  
Efficiency: N/A  
Efficacy: 99.9 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

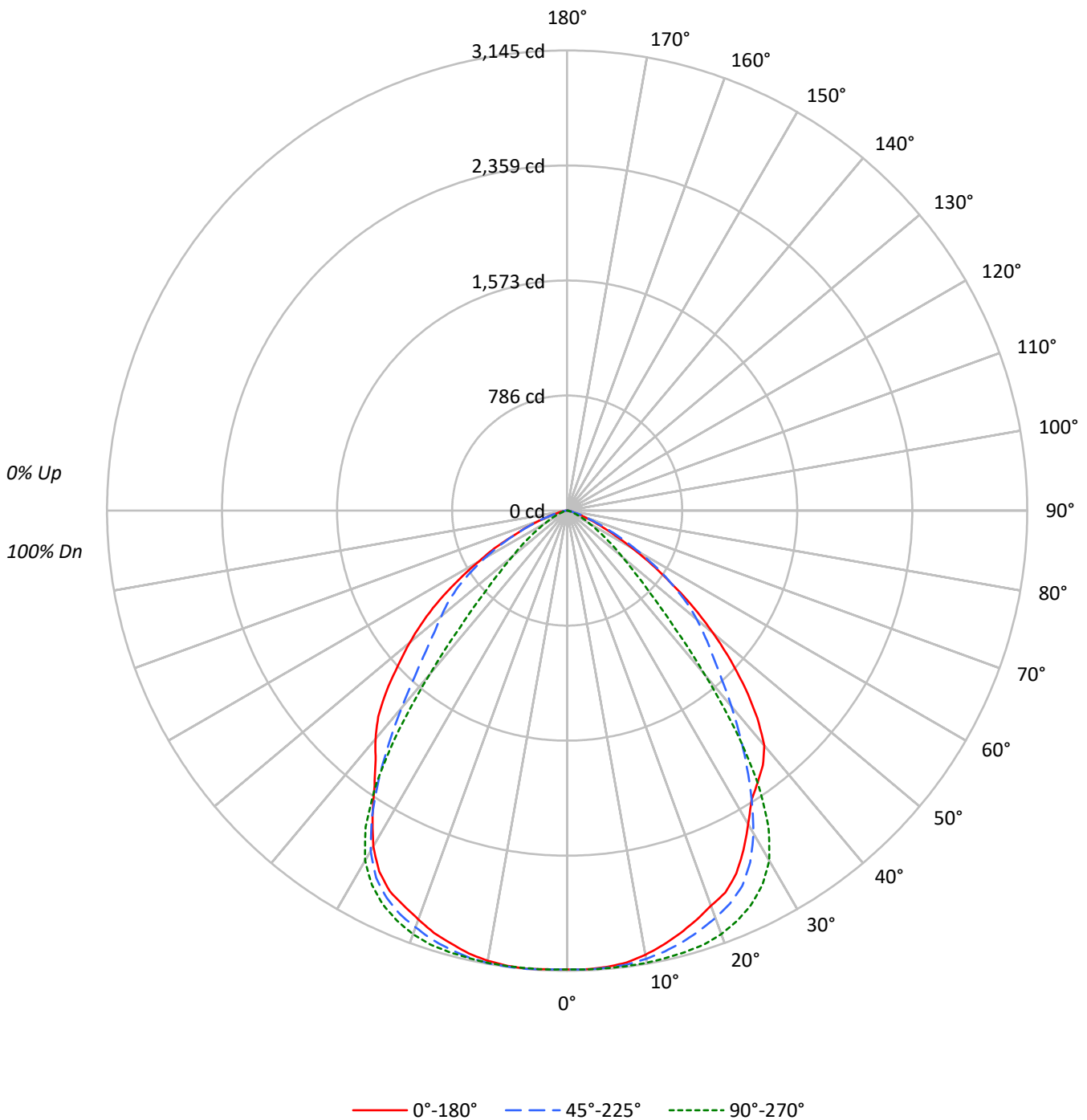
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	96709	96709	96709
5°	96920	97180	97286
10°	96513	98254	97831
15°	95443	99689	97809
20°	94298	101091	97557
25°	93073	101208	97656
30°	88052	98364	94347
35°	85422	85486	86375
40°	84364	58819	81993
45°	75173	35310	76203
50°	62509	23502	67354
55°	46880	16198	57105
60°	31768	10799	43084
65°	19161	7005	29602
70°	10621	3796	18212
75°	4813	1608	9424
80°	4191	1794	6570
85°	4776	2371	6545



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.3	5.0
10°-20°	869.2	14.6
20°-30°	1319.3	22.2
30°-40°	1385.7	23.3
40°-50°	1038.9	17.5
50°-60°	666.6	11.2
60°-70°	285.1	4.8
70°-80°	67.4	1.1
80°-90°	12.5	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°	2487.8	41.9
0°-40°	3873.5	65.2
0°-60°	5579.0	93.9
0°-90°	5944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5944.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3136	3136	3136	3136	3136	
5°	3131	3136	3140	3145	3143	297
15°	2990	3052	3123	3102	3064	843
25°	2736	2832	2975	2921	2870	1250
35°	2269	2143	2271	2244	2294	1424
45°	1724	1409	810	1369	1747	1320
55°	872	872	301	909	1062	791
65°	263	310	96	399	406	280
75°	40	47	14	81	79	59
85°	14	8	7	14	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°	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2
2.5°	3137.9	3141.2	3139.5	3139.5	3137.9	3139.5	3139.5	3142.9	3142.9	3139.5	3137.9
5°	3131.1	3134.5	3134.5	3131.1	3131.1	3139.5	3134.5	3137.9	3137.9	3136.2	3136.2
7.5°	3116.0	3116.0	3122.7	3117.7	3117.7	3122.7	3121.0	3124.4	3127.8	3129.5	3129.5
10°	3082.3	3085.7	3087.4	3087.4	3089.0	3094.1	3097.5	3104.2	3107.5	3110.9	3112.6
12.5°	3040.2	3045.3	3047.0	3045.3	3050.3	3057.0	3065.5	3073.9	3079.0	3085.7	3090.7
15°	2989.7	2989.7	2993.1	2998.1	3001.5	3011.6	3020.0	3030.1	3043.6	3052.0	3060.4
17.5°	2934.2	2937.6	2942.6	2942.6	2949.3	2966.1	2971.2	2986.4	3001.5	3009.9	3026.8
20°	2873.6	2876.9	2882.0	2885.4	2893.8	2907.2	2917.3	2930.8	2947.6	2962.8	2979.6
22.5°	2826.4	2819.7	2823.0	2826.4	2834.9	2846.6	2858.4	2875.2	2892.1	2907.2	2924.1
25°	2735.5	2737.2	2742.3	2745.6	2755.7	2765.8	2779.3	2799.5	2814.6	2831.5	2850.0
27.5°	2612.6	2614.3	2622.7	2622.7	2631.1	2648.0	2656.4	2673.2	2693.5	2710.3	2732.2
30°	2472.9	2476.3	2476.3	2483.0	2488.0	2496.5	2504.9	2521.7	2531.8	2547.0	2577.3
32.5°	2345.0	2348.3	2346.6	2345.0	2339.9	2338.2	2336.5	2339.9	2343.3	2348.3	2360.1
35°	2269.2	2260.8	2254.1	2242.3	2228.8	2212.0	2196.8	2176.6	2158.1	2143.0	2126.1
37.5°	2196.8	2195.1	2185.1	2168.2	2141.3	2111.0	2075.6	2031.9	1988.1	1941.0	1895.5
40°	2095.8	2090.8	2082.4	2058.8	2028.5	1991.5	1944.3	1890.5	1819.7	1747.4	1673.3
42.5°	1924.1	1925.8	1915.7	1897.2	1868.6	1833.2	1784.4	1725.5	1649.7	1563.9	1467.9
45°	1723.8	1723.8	1720.4	1705.3	1685.1	1656.5	1619.4	1570.6	1496.6	1409.0	1306.3
47.5°	1515.1	1516.7	1511.7	1508.3	1499.9	1481.4	1454.5	1417.4	1365.2	1281.1	1178.4
50°	1303.0	1303.0	1311.4	1309.7	1309.7	1303.0	1291.2	1269.3	1223.8	1156.5	1060.6
52.5°	1090.8	1094.2	1099.3	1106.0	1114.4	1127.9	1114.4	1104.3	1075.7	1023.5	941.0
55°	872.0	875.4	883.8	895.6	905.7	919.2	922.5	922.5	907.3	872.0	809.7
57.5°	685.2	680.1	686.8	696.9	710.4	723.9	734.0	745.7	744.1	720.5	670.0
60°	515.1	516.8	521.8	532.0	542.1	553.8	567.3	577.4	582.5	570.7	538.7
62.5°	375.4	375.4	382.1	392.2	397.3	414.1	422.5	427.6	432.6	430.9	410.7
65°	262.6	266.0	269.3	274.4	279.4	289.5	294.6	304.7	308.1	309.7	294.6
67.5°	185.2	180.1	183.5	186.8	191.9	198.7	208.8	208.8	213.8	213.8	203.7
70°	117.8	117.8	119.5	124.6	127.9	129.6	133.0	136.3	141.4	139.7	139.7
72.5°	79.1	77.4	79.1	80.8	82.5	87.5	87.5	89.2	92.6	94.3	87.5
75°	40.4	42.1	45.4	43.8	48.8	45.4	47.1	52.2	50.5	47.1	47.1
77.5°	33.7	33.7	33.7	32.0	35.3	35.3	33.7	37.0	35.3	35.3	33.7
80°	23.6	25.2	23.6	21.9	23.6	21.9	21.9	21.9	21.9	21.9	20.2
82.5°	18.5	15.2	16.8	15.2	16.8	16.8	15.2	13.5	13.5	15.2	13.5
85°	13.5	10.1	11.8	11.8	10.1	10.1	10.1	10.1	10.1	8.4	8.4
87.5°	8.4	5.1	5.1	5.1	6.7	6.7	6.7	5.1	6.7	6.7	3.4
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°	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2
2.5°	3141.2	3139.5	3142.9	3141.2	3141.2	3139.5	3141.2	3139.5	3142.9	3136.2	3137.9
5°	3141.2	3137.9	3139.5	3141.2	3142.9	3139.5	3139.5	3139.5	3142.9	3139.5	3141.2
7.5°	3134.5	3132.8	3137.9	3141.2	3139.5	3137.9	3141.2	3139.5	3142.9	3141.2	3144.6
10°	3121.0	3122.7	3126.1	3131.1	3132.8	3134.5	3137.9	3137.9	3142.9	3136.2	3139.5
12.5°	3100.8	3107.5	3116.0	3119.3	3126.1	3126.1	3129.5	3131.1	3134.5	3132.8	3137.9
15°	3075.6	3084.0	3094.1	3102.5	3110.9	3116.0	3121.0	3122.7	3127.8	3122.7	3124.4
17.5°	3045.3	3055.4	3070.5	3080.6	3094.1	3099.1	3105.9	3109.2	3114.3	3110.9	3112.6
20°	3003.2	3015.0	3031.8	3047.0	3055.4	3067.1	3075.6	3080.6	3084.0	3080.6	3082.3
22.5°	2944.3	2961.1	2983.0	2994.8	3011.6	3021.7	3023.4	3035.2	3043.6	3035.2	3038.6
25°	2875.2	2892.1	2908.9	2934.2	2949.3	2961.1	2972.9	2974.6	2983.0	2981.3	2979.6
27.5°	2760.8	2782.7	2811.3	2831.5	2851.7	2870.2	2883.7	2887.0	2895.5	2892.1	2893.8
30°	2604.2	2627.8	2654.7	2686.7	2715.3	2733.8	2750.7	2762.5	2770.9	2765.8	2764.1
32.5°	2382.0	2405.6	2434.2	2466.2	2499.9	2526.8	2547.0	2562.1	2572.2	2568.9	2560.5
35°	2127.8	2134.6	2153.1	2178.3	2206.9	2235.6	2254.1	2270.9	2282.7	2286.0	2286.0
37.5°	1866.9	1845.0	1831.6	1831.6	1848.4	1860.1	1877.0	1887.1	1905.6	1912.3	1917.4
40°	1614.4	1563.9	1516.7	1481.4	1457.8	1456.2	1456.2	1461.2	1478.0	1499.9	1520.1
42.5°	1388.8	1308.0	1235.6	1170.0	1122.8	1095.9	1084.1	1085.8	1099.3	1119.5	1153.1
45°	1208.7	1107.7	1016.8	937.7	873.7	831.6	811.4	809.7	819.8	843.4	880.4
47.5°	1069.0	961.2	858.5	767.6	698.6	653.2	629.6	622.9	629.6	651.5	695.2
50°	952.8	841.7	735.7	641.4	567.3	520.2	498.3	489.9	498.3	516.8	560.6
52.5°	845.1	730.6	631.3	540.4	461.2	420.8	397.3	392.2	397.3	419.2	454.5
55°	720.5	622.9	525.2	434.3	365.3	324.9	306.4	301.3	306.4	326.6	363.6
57.5°	597.6	513.4	427.6	345.1	286.2	250.8	234.0	227.2	239.0	252.5	296.3
60°	483.1	415.8	343.4	271.0	222.2	190.2	176.7	175.1	178.4	195.3	225.6
62.5°	378.8	323.2	266.0	207.1	166.7	153.2	136.3	134.7	138.0	148.1	171.7
65°	272.7	237.4	193.6	151.5	119.5	101.0	94.3	96.0	99.3	106.1	127.9
67.5°	190.2	165.0	134.7	106.1	82.5	74.1	67.3	65.7	67.3	79.1	90.9
70°	127.9	112.8	90.9	80.8	57.3	45.4	47.1	42.1	48.8	48.8	58.9
72.5°	84.2	74.1	60.6	47.1	40.4	32.0	32.0	30.3	33.7	35.3	43.8
75°	43.8	33.7	33.7	23.6	16.8	8.4	15.2	13.5	11.8	13.5	16.8
77.5°	30.3	25.2	23.6	18.5	16.8	13.5	13.5	13.5	13.5	15.2	16.8
80°	18.5	18.5	13.5	11.8	10.1	8.4	10.1	10.1	10.1	10.1	11.8
82.5°	11.8	10.1	10.1	8.4	8.4	6.7	6.7	6.7	6.7	6.7	10.1
85°	10.1	6.7	6.7	5.1	6.7	11.8	5.1	6.7	6.7	6.7	5.1
87.5°	3.4	5.1	5.1	5.1	3.4	1.7	3.4	5.1	5.1	8.4	6.7
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°	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2
2.5°	3141.2	3142.9	3142.9	3141.2	3141.2	3137.9	3144.6	3139.5	3141.2	3148.0	3142.9
5°	3144.6	3146.3	3146.3	3144.6	3144.6	3144.6	3146.3	3146.3	3144.6	3142.9	3146.3
7.5°	3151.3	3149.6	3149.6	3146.3	3146.3	3142.9	3146.3	3141.2	3144.6	3141.2	3146.3
10°	3142.9	3144.6	3142.9	3141.2	3141.2	3139.5	3139.5	3134.5	3136.2	3131.1	3134.5
12.5°	3137.9	3136.2	3136.2	3132.8	3129.5	3126.1	3124.4	3119.3	3119.3	3107.5	3112.6
15°	3124.4	3126.1	3121.0	3114.3	3110.9	3102.5	3099.1	3092.4	3085.7	3077.3	3079.0
17.5°	3112.6	3107.5	3100.8	3094.1	3080.6	3073.9	3067.1	3057.0	3053.7	3043.6	3040.2
20°	3077.3	3073.9	3065.5	3053.7	3045.3	3030.1	3023.4	3013.3	3004.9	2994.8	2989.7
22.5°	3031.8	3028.4	3018.3	3006.5	2993.1	2986.4	2979.6	2961.1	2952.7	2942.6	2940.9
25°	2974.6	2969.5	2959.4	2946.0	2939.2	2920.7	2914.0	2900.5	2897.1	2887.0	2885.4
27.5°	2887.0	2880.3	2868.5	2851.7	2839.9	2828.1	2821.4	2811.3	2807.9	2797.8	2796.1
30°	2755.7	2747.3	2723.7	2717.0	2696.8	2685.0	2685.0	2671.5	2673.2	2666.5	2666.5
32.5°	2548.7	2535.2	2516.7	2503.2	2489.7	2483.0	2483.0	2478.0	2481.3	2481.3	2484.7
35°	2274.3	2255.8	2245.6	2237.2	2237.2	2244.0	2264.2	2269.2	2279.3	2287.7	2294.5
37.5°	1922.4	1920.8	1932.6	1942.6	1967.9	1996.5	2031.9	2062.2	2090.8	2111.0	2131.2
40°	1542.0	1584.1	1617.7	1664.9	1703.6	1759.1	1823.1	1875.3	1924.1	1959.5	1996.5
42.5°	1203.6	1257.5	1328.2	1397.2	1466.2	1542.0	1626.2	1698.6	1762.5	1811.3	1850.1
45°	937.7	1011.7	1097.6	1185.1	1274.3	1368.6	1456.2	1530.2	1597.6	1648.1	1686.8
47.5°	755.8	836.7	934.3	1030.2	1131.2	1230.6	1328.2	1392.2	1447.7	1488.1	1523.5
50°	624.5	710.4	813.1	922.5	1023.5	1122.8	1207.0	1269.3	1314.7	1350.1	1372.0
52.5°	521.8	612.7	722.2	831.6	932.6	1023.5	1099.3	1146.4	1183.4	1208.7	1228.9
55°	430.9	518.5	621.2	723.9	823.2	909.0	971.3	1006.7	1035.3	1050.4	1062.2
57.5°	351.8	432.6	526.9	621.2	707.0	777.8	826.6	861.9	875.4	887.2	885.5
60°	276.1	351.8	437.7	518.5	592.6	649.8	685.2	705.3	715.4	720.5	717.1
62.5°	217.2	286.2	351.8	422.5	476.4	525.2	558.9	558.9	563.9	565.6	570.7
65°	161.6	213.8	271.0	323.2	367.0	399.0	417.5	422.5	429.3	427.6	424.2
67.5°	119.5	158.3	200.3	239.0	269.3	289.5	303.0	314.8	313.1	309.7	308.1
70°	82.5	107.8	144.8	168.3	190.2	210.4	213.8	215.5	217.2	218.8	215.5
72.5°	57.3	75.7	96.0	116.2	129.6	138.0	146.5	148.1	148.1	148.1	146.5
75°	28.6	38.7	57.3	65.7	77.4	80.8	87.5	87.5	92.6	85.8	84.2
77.5°	25.2	30.3	40.4	47.1	52.2	57.3	58.9	64.0	62.3	58.9	60.6
80°	15.2	18.5	25.2	28.6	35.3	37.0	38.7	40.4	38.7	40.4	40.4
82.5°	11.8	13.5	16.8	16.8	21.9	21.9	23.6	23.6	25.2	25.2	25.2
85°	6.7	11.8	10.1	20.2	13.5	13.5	16.8	20.2	16.8	16.8	20.2
87.5°	6.7	6.7	5.1	6.7	6.7	6.7	8.4	10.1	10.1	11.8	10.1
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: P249307

CATALOG NUMBER: LSR8B60D010 EC8B60830 8LBDW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	3136.2	3136.2	3136.2	3136.2
2.5°	3141.2	3144.6	3139.5	3137.9
5°	3146.3	3146.3	3142.9	3142.9
7.5°	3146.3	3146.3	3141.2	3137.9
10°	3132.8	3132.8	3127.8	3124.4
12.5°	3107.5	3107.5	3105.9	3100.8
15°	3075.6	3075.6	3068.8	3063.8
17.5°	3031.8	3035.2	3026.8	3026.8
20°	2984.7	2983.0	2976.3	2972.9
22.5°	2935.9	2932.5	2930.8	2920.7
25°	2883.7	2880.3	2875.2	2870.2
27.5°	2794.5	2792.8	2787.7	2781.0
30°	2658.1	2656.4	2649.7	2649.7
32.5°	2481.3	2479.6	2472.9	2474.6
35°	2297.8	2304.6	2301.2	2294.5
37.5°	2144.6	2149.7	2153.1	2149.7
40°	2016.7	2031.9	2033.6	2036.9
42.5°	1880.4	1900.6	1907.3	1910.6
45°	1717.1	1735.6	1750.7	1747.4
47.5°	1550.4	1563.9	1577.3	1567.2
50°	1390.5	1398.9	1404.0	1404.0
52.5°	1239.0	1239.0	1237.3	1239.0
55°	1065.6	1065.6	1058.9	1062.2
57.5°	883.8	887.2	882.1	873.7
60°	715.4	707.0	703.7	698.6
62.5°	557.2	557.2	545.4	560.6
65°	417.5	412.4	407.4	405.7
67.5°	303.0	301.3	296.3	294.6
70°	213.8	207.1	205.4	202.0
72.5°	143.1	143.1	139.7	139.7
75°	87.5	79.1	77.4	79.1
77.5°	60.6	58.9	58.9	57.3
80°	40.4	38.7	42.1	37.0
82.5°	25.2	26.9	25.2	26.9
85°	16.8	20.2	18.5	18.5
87.5°	10.1	10.1	10.1	10.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)