

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: P248443

Luminaire Tested: **LSR8B60D010 EC8B60830 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248443  
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 EC8B60830 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6128.0 lumens  
Efficiency: N/A  
Efficacy: 103.0 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

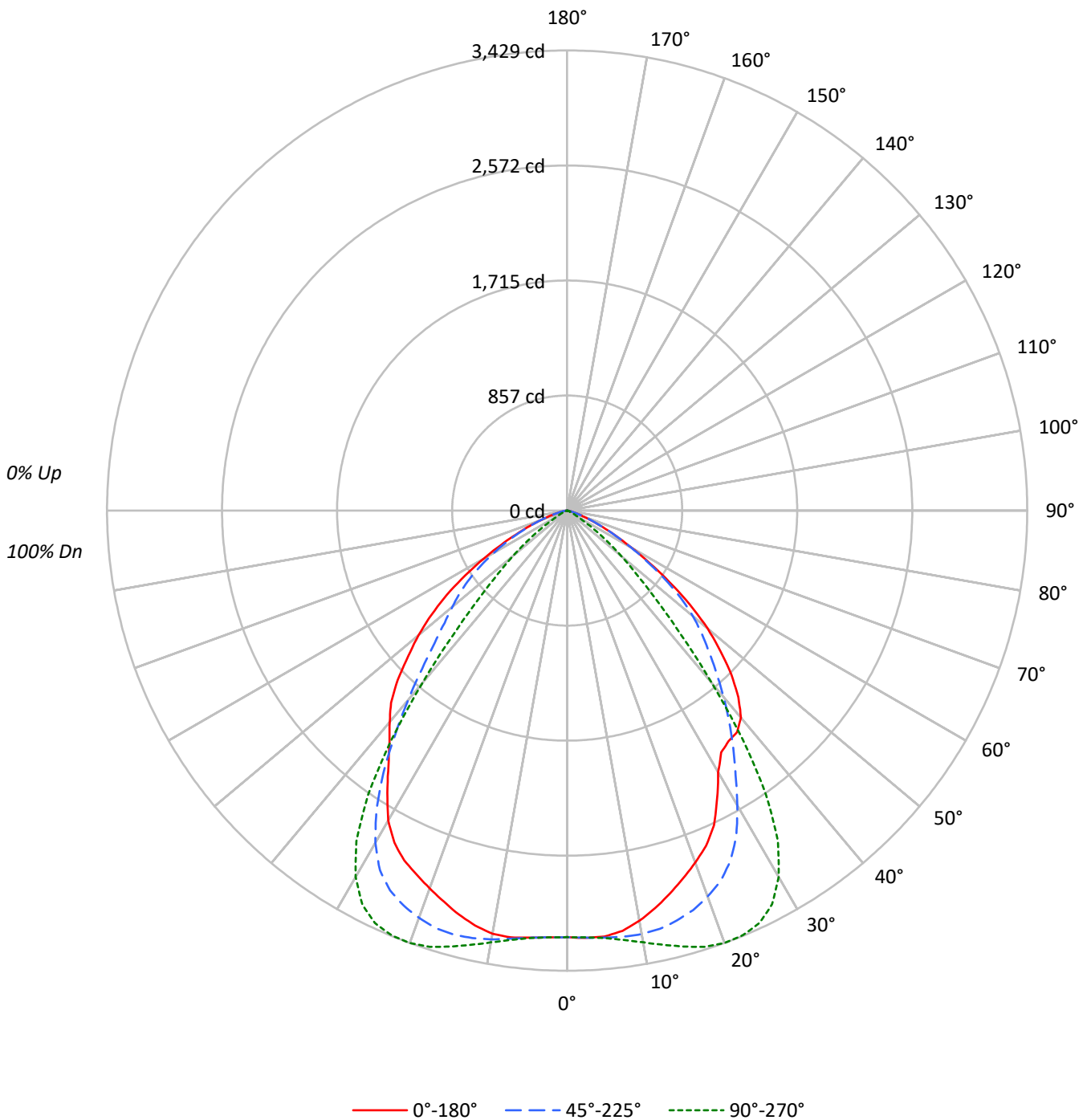
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	98029	98029	98029
5°	98614	98979	98874
10°	97164	102290	100280
15°	94323	107358	99495
20°	91584	112514	98285
25°	88068	115396	97830
30°	80147	112232	94927
35°	78955	97250	87338
40°	81100	67450	82798
45°	75500	40766	77855
50°	65488	25176	69373
55°	50256	13155	58874
60°	34234	5304	44435
65°	21298	2707	30653
70°	11558	1677	18717
75°	6029	798	11056
80°	2699	906	5984
85°	1804	601	5378



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.7	5.0
10°-20°	905.7	14.8
20°-30°	1381.7	22.5
30°-40°	1441.8	23.5
40°-50°	1083.0	17.7
50°-60°	666.3	10.9
60°-70°	271.2	4.4
70°-80°	63.9	1.0
80°-90°	8.8	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°	2593.0	42.3
0°-40°	4034.8	65.8
0°-60°	5784.1	94.4
0°-90°	6128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6128.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3179	3179	3179	3179	3179	
5°	3186	3194	3198	3194	3194	301
15°	2955	3162	3363	3270	3117	832
25°	2588	2879	3392	3123	2875	1177
35°	2097	2156	2583	2388	2320	1324
45°	1731	1498	935	1396	1785	1321
55°	935	888	245	888	1095	840
65°	292	295	37	396	420	304
75°	51	51	7	89	93	61
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°	3179.0	3179.0	3179.0	3179.0	3179.0	3179.0	3179.0	3179.0	3179.0	3179.0	3179.0
2.5°	3187.5	3182.4	3187.5	3187.5	3189.1	3185.8	3187.5	3189.1	3185.8	3185.8	3185.8
5°	3185.8	3182.4	3185.8	3184.1	3187.5	3187.5	3190.8	3190.8	3194.2	3194.2	3199.3
7.5°	3158.8	3152.0	3158.8	3163.8	3167.2	3174.0	3182.4	3189.1	3195.9	3202.6	3211.1
10°	3103.1	3103.1	3108.1	3118.3	3128.4	3140.2	3155.4	3172.3	3189.1	3204.3	3219.5
12.5°	3033.9	3028.8	3038.9	3052.4	3067.6	3086.2	3109.8	3135.1	3162.1	3192.5	3216.1
15°	2954.6	2949.5	2961.3	2974.8	2993.4	3020.4	3049.1	3082.8	3121.6	3162.1	3201.0
17.5°	2873.6	2871.9	2883.7	2902.3	2917.5	2946.1	2983.3	3023.8	3067.6	3121.6	3172.3
20°	2790.9	2789.2	2801.0	2816.2	2836.5	2863.5	2900.6	2947.8	3000.1	3060.9	3119.9
22.5°	2704.8	2706.5	2716.7	2733.5	2750.4	2779.1	2817.9	2865.2	2922.5	2988.3	3054.1
25°	2588.4	2580.0	2593.5	2610.4	2639.0	2662.7	2699.8	2750.4	2809.5	2878.7	2956.3
27.5°	2419.7	2418.0	2429.8	2445.0	2470.3	2499.0	2539.5	2591.8	2654.2	2730.2	2806.1
30°	2250.9	2254.3	2259.4	2274.6	2291.4	2320.1	2360.6	2404.5	2463.6	2536.1	2617.1
32.5°	2136.2	2136.2	2143.0	2153.1	2164.9	2180.1	2208.8	2240.8	2286.4	2337.0	2396.1
35°	2097.4	2090.7	2097.4	2099.1	2100.8	2104.2	2109.2	2119.4	2134.5	2156.5	2178.4
37.5°	2080.5	2075.5	2075.5	2068.7	2060.3	2050.2	2036.7	2021.5	2004.6	1982.7	1965.8
40°	2014.7	2011.3	2008.0	2001.2	1982.7	1962.4	1940.5	1905.0	1866.2	1812.2	1758.3
42.5°	1888.2	1884.8	1883.1	1869.6	1852.7	1829.1	1803.8	1766.7	1717.8	1648.6	1570.9
45°	1731.3	1724.5	1719.4	1707.6	1695.8	1675.6	1651.9	1618.2	1569.2	1498.4	1405.6
47.5°	1549.0	1545.6	1543.9	1538.9	1527.1	1515.2	1500.1	1473.1	1429.2	1361.7	1265.5
50°	1365.1	1358.3	1361.7	1360.0	1355.0	1346.5	1336.4	1317.8	1284.1	1223.3	1135.6
52.5°	1154.1	1154.1	1152.5	1157.5	1159.2	1157.5	1159.2	1139.0	1110.3	1064.7	990.5
55°	934.8	934.8	939.9	946.6	953.4	955.1	953.4	944.9	924.7	887.6	821.7
57.5°	728.9	725.6	735.7	745.8	752.6	759.3	754.2	747.5	735.7	705.3	654.7
60°	555.1	555.1	561.9	568.6	575.4	582.1	580.5	578.8	568.6	548.4	507.9
62.5°	408.3	410.0	410.0	415.1	421.8	428.6	433.6	428.6	423.5	410.0	383.0
65°	291.9	290.2	291.9	297.0	302.1	308.8	312.2	310.5	305.4	295.3	275.1
67.5°	195.7	194.0	200.8	202.5	205.9	212.6	210.9	212.6	210.9	202.5	185.6
70°	128.2	124.9	128.2	126.5	131.6	133.3	136.7	138.4	136.7	131.6	126.5
72.5°	79.3	77.6	79.3	81.0	82.7	84.4	87.7	87.7	86.0	82.7	75.9
75°	50.6	45.5	47.2	43.9	47.2	47.2	50.6	52.3	50.6	50.6	47.2
77.5°	30.4	30.4	30.4	30.4	30.4	30.4	30.4	32.1	33.7	30.4	28.7
80°	15.2	15.2	16.9	16.9	16.9	18.6	16.9	16.9	16.9	18.6	13.5
82.5°	11.8	10.1	10.1	10.1	11.8	10.1	10.1	10.1	10.1	10.1	10.1
85°	5.1	6.7	5.1	3.4	5.1	5.1	6.7	5.1	5.1	5.1	6.7
87.5°	1.7	1.7	0.0	0.0	0.0	1.7	0.0	1.7	1.7	3.4	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: P248443

CATALOG NUMBER: LSR8B60D010 EC8B60830 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3179.0	3179.0	3179.0	3179.0	3179.0	3179.0	3179.0	3179.0	3179.0	3179.0	3179.0
2.5°	3187.5	3184.1	3184.1	3182.4	3185.8	3182.4	3184.1	3182.4	3182.4	3185.8	3182.4
5°	3199.3	3201.0	3197.6	3195.9	3201.0	3201.0	3201.0	3197.6	3197.6	3199.3	3197.6
7.5°	3216.1	3219.5	3221.2	3222.9	3226.3	3228.0	3228.0	3226.3	3224.6	3229.6	3222.9
10°	3234.7	3239.8	3249.9	3255.0	3263.4	3263.4	3266.8	3266.8	3263.4	3266.8	3265.1
12.5°	3228.0	3258.3	3275.2	3287.0	3298.8	3308.9	3312.3	3314.0	3312.3	3319.1	3312.3
15°	3239.8	3265.1	3292.1	3312.3	3334.2	3346.0	3349.4	3362.9	3366.3	3368.0	3357.9
17.5°	3221.2	3266.8	3295.4	3325.8	3357.9	3379.8	3400.0	3408.5	3410.2	3413.5	3400.0
20°	3179.0	3229.6	3273.5	3317.4	3354.5	3388.2	3405.1	3428.7	3422.0	3435.5	3416.9
22.5°	3121.6	3179.0	3234.7	3292.1	3330.9	3371.4	3406.8	3423.7	3432.1	3432.1	3411.9
25°	3030.5	3098.0	3158.8	3217.8	3276.9	3325.8	3366.3	3391.6	3396.7	3395.0	3371.4
27.5°	2888.8	2961.3	3032.2	3099.7	3172.3	3229.6	3276.9	3307.2	3315.7	3315.7	3290.4
30°	2693.0	2770.7	2839.9	2920.8	2995.1	3059.2	3125.0	3152.0	3167.2	3167.2	3138.5
32.5°	2460.2	2526.0	2590.1	2669.4	2750.4	2823.0	2885.4	2922.5	2941.1	2939.4	2914.1
35°	2207.1	2239.1	2288.1	2347.1	2419.7	2487.2	2547.9	2583.4	2615.4	2613.7	2590.1
37.5°	1954.0	1945.5	1950.6	1972.5	2018.1	2065.4	2112.6	2146.4	2173.3	2185.2	2180.1
40°	1705.9	1662.1	1619.9	1604.7	1608.1	1624.9	1650.2	1675.6	1705.9	1721.1	1727.9
42.5°	1483.2	1409.0	1334.7	1279.0	1247.0	1236.8	1248.6	1257.1	1275.7	1297.6	1319.5
45°	1304.3	1204.8	1106.9	1020.9	966.9	934.8	928.1	934.8	944.9	966.9	995.6
47.5°	1157.5	1041.1	931.4	835.2	755.9	713.8	702.0	698.6	708.7	728.9	767.7
50°	1027.6	911.2	789.7	678.3	595.6	548.4	531.5	524.8	536.6	551.8	587.2
52.5°	885.9	771.1	646.3	538.3	452.2	403.3	384.7	374.6	381.3	401.6	437.0
55°	732.3	626.0	513.0	401.6	318.9	273.4	251.4	244.7	251.4	273.4	308.8
57.5°	578.8	489.3	394.8	290.2	216.0	170.4	148.5	141.7	160.3	168.7	205.9
60°	452.2	379.7	298.7	212.6	148.5	113.0	91.1	86.0	94.5	109.7	140.0
62.5°	339.2	293.6	229.5	151.9	109.7	72.5	60.7	55.7	60.7	72.5	96.2
65°	246.4	210.9	160.3	111.4	74.2	54.0	40.5	37.1	42.2	50.6	70.9
67.5°	168.7	141.7	111.4	77.6	50.6	33.7	28.7	28.7	30.4	37.1	52.3
70°	109.7	92.8	70.9	50.6	33.7	25.3	21.9	18.6	21.9	27.0	35.4
72.5°	69.2	59.0	45.5	35.4	25.3	18.6	15.2	13.5	16.9	20.2	27.0
75°	42.2	32.1	23.6	18.6	13.5	13.5	13.5	6.7	8.4	13.5	16.9
77.5°	25.3	21.9	18.6	15.2	11.8	6.7	6.7	6.7	8.4	10.1	15.2
80°	13.5	11.8	8.4	8.4	6.7	5.1	6.7	5.1	3.4	8.4	10.1
82.5°	8.4	6.7	6.7	6.7	8.4	3.4	5.1	3.4	5.1	6.7	5.1
85°	5.1	5.1	5.1	3.4	8.4	3.4	3.4	1.7	1.7	3.4	3.4
87.5°	0.0	1.7	1.7	0.0	1.7	0.0	1.7	1.7	1.7	1.7	1.7
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°	3179.0	3179.0	3179.0	3179.0	3179.0	3179.0	3179.0	3179.0	3179.0	3179.0	3179.0
2.5°	3184.1	3182.4	3184.1	3182.4	3182.4	3182.4	3184.1	3184.1	3182.4	3182.4	3185.8
5°	3197.6	3197.6	3197.6	3195.9	3194.2	3194.2	3197.6	3197.6	3192.5	3197.6	3197.6
7.5°	3226.3	3221.2	3226.3	3219.5	3216.1	3217.8	3219.5	3216.1	3212.8	3214.5	3214.5
10°	3263.4	3258.3	3258.3	3253.3	3248.2	3244.8	3241.5	3233.0	3224.6	3222.9	3216.1
12.5°	3307.2	3298.8	3293.8	3283.6	3275.2	3263.4	3253.3	3239.8	3222.9	3211.1	3199.3
15°	3351.1	3337.6	3325.8	3308.9	3290.4	3270.1	3248.2	3226.3	3199.3	3175.6	3155.4
17.5°	3386.5	3368.0	3346.0	3319.1	3292.1	3261.7	3229.6	3197.6	3158.8	3128.4	3104.8
20°	3398.3	3371.4	3342.7	3307.2	3271.8	3229.6	3189.1	3147.0	3103.1	3071.0	3044.0
22.5°	3383.2	3351.1	3315.7	3278.6	3231.3	3185.8	3138.5	3089.6	3050.8	3006.9	2981.6
25°	3341.0	3302.2	3263.4	3219.5	3174.0	3123.3	3072.7	3022.1	2974.8	2951.2	2919.2
27.5°	3255.0	3212.8	3170.6	3125.0	3072.7	3022.1	2969.8	2920.8	2880.4	2848.3	2829.7
30°	3103.1	3054.1	3005.2	2956.3	2910.7	2858.4	2809.5	2769.0	2728.5	2703.2	2684.6
32.5°	2870.2	2826.4	2777.4	2730.2	2688.0	2644.1	2603.6	2568.2	2539.5	2522.6	2509.1
35°	2556.4	2512.5	2475.4	2441.6	2406.2	2387.6	2362.3	2342.1	2330.2	2323.5	2321.8
37.5°	2161.5	2136.2	2124.4	2117.7	2110.9	2105.9	2109.2	2117.7	2124.4	2136.2	2149.7
40°	1739.7	1761.6	1768.4	1792.0	1813.9	1842.6	1874.7	1911.8	1942.2	1981.0	2008.0
42.5°	1355.0	1395.5	1442.7	1493.3	1547.3	1599.6	1663.7	1722.8	1776.8	1825.7	1867.9
45°	1041.1	1103.5	1174.4	1247.0	1319.5	1395.5	1473.1	1545.6	1609.7	1662.1	1705.9
47.5°	811.6	880.8	971.9	1061.4	1149.1	1238.5	1324.6	1400.5	1454.5	1505.1	1543.9
50°	642.9	722.2	821.7	924.7	1020.9	1115.3	1206.5	1277.3	1331.3	1371.8	1400.5
52.5°	497.8	592.3	693.5	801.5	904.4	1007.4	1091.7	1157.5	1201.4	1236.8	1258.8
55°	371.2	464.0	572.0	683.4	788.0	887.6	966.9	1024.3	1063.1	1083.3	1095.1
57.5°	268.3	352.7	460.6	572.0	666.5	761.0	825.1	877.4	899.4	911.2	916.2
60°	195.7	273.4	369.5	465.7	555.1	631.1	686.8	722.2	739.1	745.8	744.1
62.5°	143.4	210.9	293.6	374.6	447.1	509.6	553.5	577.1	585.5	588.9	583.8
65°	109.7	162.0	232.9	295.3	351.0	396.5	428.6	443.8	448.8	447.1	443.8
67.5°	81.0	121.5	173.8	221.1	261.6	297.0	313.9	327.4	330.7	325.7	320.6
70°	57.4	89.4	126.5	158.6	189.0	209.2	227.8	229.5	229.5	227.8	224.4
72.5°	40.5	62.4	86.0	108.0	126.5	141.7	148.5	153.5	151.9	150.2	146.8
75°	27.0	38.8	62.4	67.5	84.4	89.4	96.2	96.2	97.9	92.8	92.8
77.5°	16.9	27.0	37.1	43.9	50.6	57.4	60.7	60.7	62.4	60.7	60.7
80°	10.1	16.9	20.2	30.4	30.4	35.4	37.1	38.8	35.4	40.5	35.4
82.5°	6.7	10.1	15.2	15.2	18.6	21.9	21.9	23.6	23.6	21.9	21.9
85°	5.1	6.7	8.4	10.1	10.1	11.8	10.1	10.1	11.8	13.5	11.8
87.5°	1.7	3.4	1.7	3.4	3.4	6.7	5.1	5.1	5.1	6.7	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





TEST NUMBER: P248443

CATALOG NUMBER: LSR8B60D010 EC8B60830 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	3179.0	3179.0	3179.0	3179.0
2.5°	3182.4	3184.1	3182.4	3182.4
5°	3197.6	3195.9	3197.6	3194.2
7.5°	3209.4	3209.4	3207.7	3207.7
10°	3209.4	3202.6	3202.6	3202.6
12.5°	3184.1	3175.6	3170.6	3167.2
15°	3140.2	3125.0	3118.3	3116.6
17.5°	3082.8	3069.3	3060.9	3055.8
20°	3017.0	3003.5	2993.4	2995.1
22.5°	2959.6	2944.5	2937.7	2934.3
25°	2902.3	2883.7	2878.7	2875.3
27.5°	2809.5	2799.4	2794.3	2789.2
30°	2667.7	2662.7	2654.2	2666.0
32.5°	2504.1	2495.6	2488.9	2494.0
35°	2323.5	2318.4	2323.5	2320.1
37.5°	2158.2	2163.2	2170.0	2173.3
40°	2028.2	2046.8	2053.5	2056.9
42.5°	1898.3	1920.2	1933.7	1942.2
45°	1738.0	1759.9	1775.1	1785.3
47.5°	1572.6	1591.2	1606.4	1604.7
50°	1422.5	1432.6	1439.3	1446.1
52.5°	1270.6	1270.6	1272.3	1272.3
55°	1098.5	1095.1	1093.4	1095.1
57.5°	909.5	906.1	904.4	899.4
60°	737.4	727.3	720.5	720.5
62.5°	577.1	565.3	560.2	558.5
65°	433.6	431.9	421.8	420.1
67.5°	313.9	307.1	300.4	302.1
70°	221.1	210.9	210.9	207.6
72.5°	143.4	138.4	136.7	136.7
75°	89.4	89.4	86.0	92.8
77.5°	59.0	59.0	57.4	59.0
80°	35.4	35.4	35.4	33.7
82.5°	21.9	23.6	21.9	21.9
85°	11.8	13.5	10.1	15.2
87.5°	6.7	8.4	6.7	8.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)