

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: P248470

Luminaire Tested: **LSR8B60D010 EC8B60850 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248470  
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 EC8B60850 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6455.0 lumens  
Efficiency: N/A  
Efficacy: 108.5 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

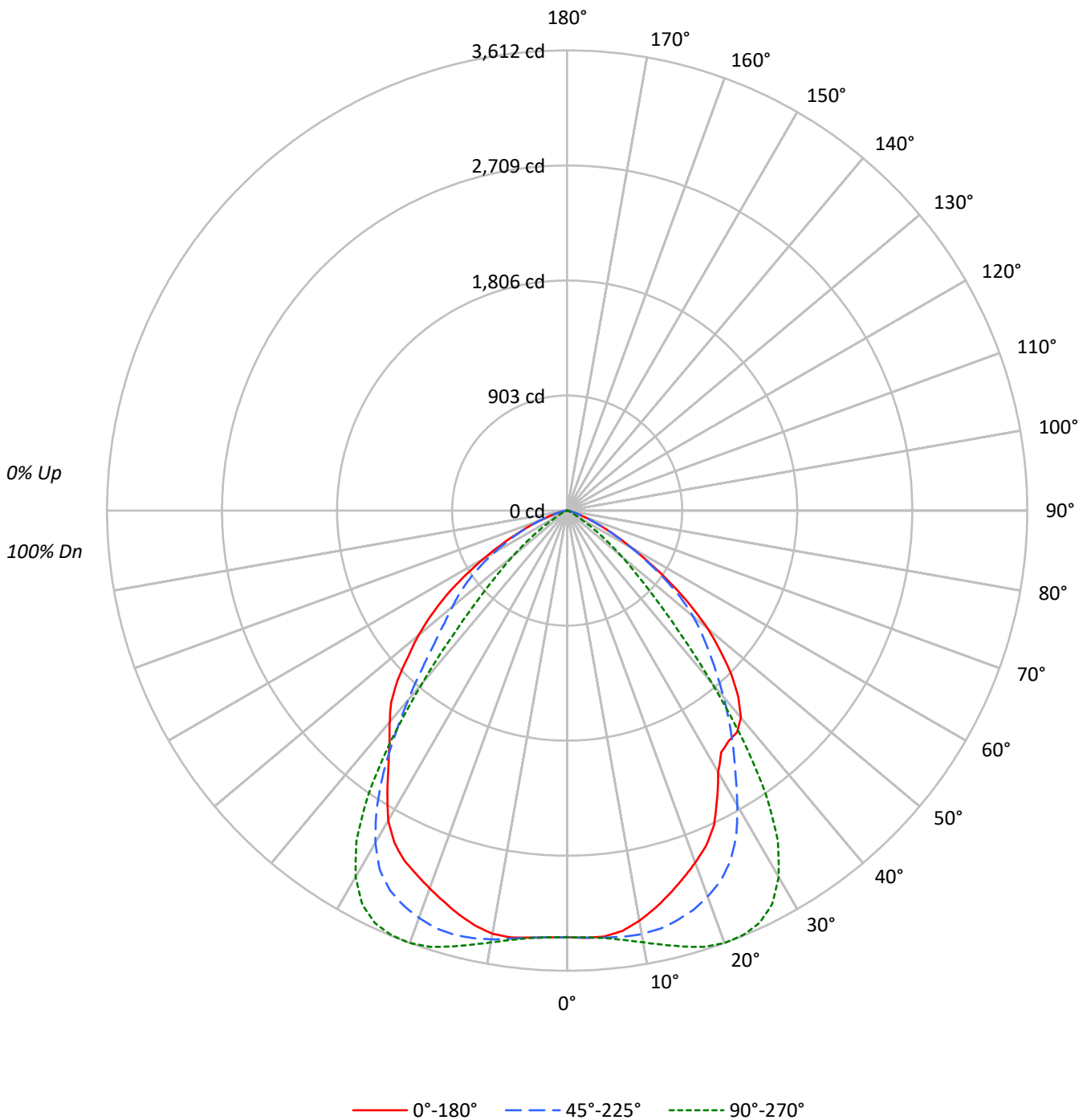
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	103258	103258	103258
5°	103876	104260	104148
10°	102346	107748	105631
15°	99357	113088	104804
20°	96474	118519	103529
25°	92767	121555	103049
30°	84427	118221	99994
35°	83167	102437	91999
40°	85427	71048	87214
45°	79526	42942	82007
50°	68980	26519	73072
55°	52939	13854	62014
60°	36066	5588	46810
65°	22437	2853	32294
70°	12181	1767	19709
75°	6350	846	11652
80°	2841	941	6304
85°	1875	637	5661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	322.0	5.0
10°-20°	954.0	14.8
20°-30°	1455.4	22.5
30°-40°	1518.7	23.5
40°-50°	1140.8	17.7
50°-60°	701.9	10.9
60°-70°	285.6	4.4
70°-80°	67.3	1.0
80°-90°	9.3	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°	2731.4	42.3
0°-40°	4250.1	65.8
0°-60°	6092.8	94.4
0°-90°	6455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6455.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3349	3349	3349	3349	3349	
5°	3356	3365	3368	3365	3365	317
15°	3112	3331	3542	3445	3283	877
25°	2726	3032	3573	3290	3029	1240
35°	2209	2272	2721	2515	2444	1395
45°	1824	1578	985	1470	1880	1391
55°	985	935	258	935	1154	885
65°	308	311	39	418	443	321
75°	53	53	7	94	98	64
85°	5	5	2	12	16	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°	3348.6	3348.6	3348.6	3348.6	3348.6	3348.6	3348.6	3348.6	3348.6	3348.6	3348.6
2.5°	3357.5	3352.2	3357.5	3357.5	3359.3	3355.8	3357.5	3359.3	3355.8	3355.8	3355.8
5°	3355.8	3352.2	3355.8	3354.0	3357.5	3357.5	3361.1	3361.1	3364.6	3364.6	3370.0
7.5°	3327.3	3320.2	3327.3	3332.7	3336.2	3343.3	3352.2	3359.3	3366.4	3373.5	3382.4
10°	3268.6	3268.6	3274.0	3284.7	3295.3	3307.7	3323.7	3341.5	3359.3	3375.3	3391.3
12.5°	3195.8	3190.5	3201.1	3215.3	3231.3	3250.9	3275.8	3302.4	3330.9	3362.8	3387.8
15°	3112.3	3106.9	3119.3	3133.6	3153.1	3181.6	3211.8	3247.3	3288.2	3330.9	3371.8
17.5°	3026.9	3025.1	3037.6	3057.2	3073.2	3103.3	3142.5	3185.1	3231.3	3288.2	3341.5
20°	2939.9	2938.1	2950.5	2966.5	2987.8	3016.3	3055.4	3105.1	3160.2	3224.2	3286.4
22.5°	2849.2	2851.0	2861.6	2879.4	2897.2	2927.4	2968.3	3018.1	3078.5	3147.8	3217.1
25°	2726.5	2717.7	2731.9	2749.7	2779.9	2804.7	2843.9	2897.2	2959.4	3032.3	3114.0
27.5°	2548.8	2547.0	2559.5	2575.5	2602.1	2632.3	2675.0	2730.1	2795.9	2875.8	2955.8
30°	2371.1	2374.6	2380.0	2396.0	2413.7	2443.9	2486.6	2532.8	2595.0	2671.4	2756.8
32.5°	2250.2	2250.2	2257.3	2268.0	2280.4	2296.4	2326.6	2360.4	2408.4	2461.7	2523.9
35°	2209.3	2202.2	2209.3	2211.1	2212.9	2216.4	2221.7	2232.4	2248.4	2271.5	2294.6
37.5°	2191.6	2186.2	2186.2	2179.1	2170.2	2159.6	2145.3	2129.3	2111.6	2088.5	2070.7
40°	2122.2	2118.7	2115.1	2108.0	2088.5	2067.1	2044.0	2006.7	1965.8	1908.9	1852.1
42.5°	1988.9	1985.4	1983.6	1969.4	1951.6	1926.7	1900.0	1861.0	1809.4	1736.5	1654.8
45°	1823.6	1816.5	1811.2	1798.8	1786.3	1765.0	1740.1	1704.5	1653.0	1578.4	1480.6
47.5°	1631.7	1628.1	1626.3	1621.0	1608.6	1596.1	1580.1	1551.7	1505.5	1434.4	1333.1
50°	1437.9	1430.8	1434.4	1432.6	1427.3	1418.4	1407.7	1388.2	1352.6	1288.6	1196.2
52.5°	1215.7	1215.7	1214.0	1219.3	1221.1	1219.3	1221.1	1199.8	1169.5	1121.5	1043.3
55°	984.7	984.7	990.0	997.1	1004.2	1006.0	1004.2	995.4	974.0	934.9	865.6
57.5°	767.8	764.3	775.0	785.6	792.7	799.8	794.5	787.4	775.0	742.9	689.6
60°	584.8	584.8	591.9	599.0	606.1	613.2	611.4	609.6	599.0	577.6	535.0
62.5°	430.1	431.9	431.9	437.3	444.3	451.5	456.8	451.5	446.1	431.9	403.5
65°	307.5	305.7	307.5	312.8	318.2	325.3	328.8	327.0	321.7	311.0	289.7
67.5°	206.2	204.4	211.5	213.3	216.8	224.0	222.2	224.0	222.2	213.3	195.5
70°	135.1	131.5	135.1	133.3	138.6	140.4	144.0	145.7	144.0	138.6	133.3
72.5°	83.5	81.8	83.5	85.3	87.1	88.9	92.4	92.4	90.6	87.1	80.0
75°	53.3	48.0	49.8	46.2	49.8	49.8	53.3	55.1	53.3	53.3	49.8
77.5°	32.0	32.0	32.0	32.0	32.0	32.0	32.0	33.8	35.5	32.0	30.2
80°	16.0	16.0	17.8	17.8	17.8	19.6	17.8	17.8	17.8	19.6	14.2
82.5°	12.4	10.7	10.7	10.7	12.4	10.7	10.7	10.7	10.7	10.7	10.7
85°	5.3	7.1	5.3	3.6	5.3	5.3	7.1	5.3	5.3	5.3	7.1
87.5°	1.8	1.8	0.0	0.0	0.0	1.8	0.0	1.8	1.8	3.6	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: P248470

CATALOG NUMBER: LSR8B60D010 EC8B60850 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3348.6	3348.6	3348.6	3348.6	3348.6	3348.6	3348.6	3348.6	3348.6	3348.6	3348.6
2.5°	3357.5	3354.0	3354.0	3352.2	3355.8	3352.2	3354.0	3352.2	3352.2	3355.8	3352.2
5°	3370.0	3371.8	3368.2	3366.4	3371.8	3371.8	3371.8	3368.2	3368.2	3370.0	3368.2
7.5°	3387.8	3391.3	3393.1	3394.9	3398.4	3400.2	3400.2	3398.4	3396.6	3402.0	3394.9
10°	3407.3	3412.6	3423.3	3428.6	3437.5	3437.5	3441.1	3441.1	3437.5	3441.1	3439.3
12.5°	3400.2	3432.2	3450.0	3462.4	3474.8	3485.5	3489.1	3490.8	3489.1	3496.2	3489.1
15°	3412.6	3439.3	3467.7	3489.1	3512.2	3524.6	3528.2	3542.4	3545.9	3547.7	3537.1
17.5°	3393.1	3441.1	3471.3	3503.3	3537.1	3560.2	3581.5	3590.4	3592.2	3595.7	3581.5
20°	3348.6	3402.0	3448.2	3494.4	3533.5	3569.0	3586.8	3611.7	3604.6	3618.8	3599.3
22.5°	3288.2	3348.6	3407.3	3467.7	3508.6	3551.3	3588.6	3606.4	3615.3	3615.3	3593.9
25°	3192.2	3263.3	3327.3	3389.5	3451.7	3503.3	3545.9	3572.6	3577.9	3576.2	3551.3
27.5°	3042.9	3119.3	3194.0	3265.1	3341.5	3402.0	3451.7	3483.7	3492.6	3492.6	3466.0
30°	2836.7	2918.5	2991.4	3076.7	3154.9	3222.5	3291.8	3320.2	3336.2	3336.2	3306.0
32.5°	2591.5	2660.8	2728.3	2811.9	2897.2	2973.6	3039.4	3078.5	3098.0	3096.3	3069.6
35°	2324.9	2358.6	2410.2	2472.4	2548.8	2619.9	2683.9	2721.2	2755.0	2753.2	2728.3
37.5°	2058.2	2049.4	2054.7	2077.8	2125.8	2175.6	2225.3	2260.9	2289.3	2301.8	2296.4
40°	1797.0	1750.7	1706.3	1690.3	1693.9	1711.6	1738.3	1765.0	1797.0	1813.0	1820.1
42.5°	1562.3	1484.2	1405.9	1347.3	1313.5	1302.8	1315.3	1324.2	1343.7	1366.8	1390.0
45°	1373.9	1269.1	1166.0	1075.3	1018.5	984.7	977.6	984.7	995.4	1018.5	1048.7
47.5°	1219.3	1096.7	981.1	879.8	796.3	751.9	739.4	735.9	746.5	767.8	808.7
50°	1082.4	959.8	831.8	714.5	627.4	577.6	559.9	552.8	565.2	581.2	618.5
52.5°	933.1	812.3	680.8	567.0	476.3	424.8	405.2	394.6	401.7	423.0	460.3
55°	771.4	659.4	540.3	423.0	335.9	287.9	264.8	257.7	264.8	287.9	325.3
57.5°	609.6	515.4	415.9	305.7	227.5	179.5	156.4	149.3	168.9	177.7	216.8
60°	476.3	399.9	314.6	224.0	156.4	119.1	96.0	90.6	99.5	115.5	147.5
62.5°	357.3	309.3	241.7	160.0	115.5	76.4	64.0	58.7	64.0	76.4	101.3
65°	259.5	222.2	168.9	117.3	78.2	56.9	42.7	39.1	44.4	53.3	74.7
67.5°	177.7	149.3	117.3	81.8	53.3	35.5	30.2	30.2	32.0	39.1	55.1
70°	115.5	97.8	74.7	53.3	35.5	26.7	23.1	19.6	23.1	28.4	37.3
72.5°	72.9	62.2	48.0	37.3	26.7	19.6	16.0	14.2	17.8	21.3	28.4
75°	44.4	33.8	24.9	19.6	14.2	14.2	14.2	7.1	8.9	14.2	17.8
77.5°	26.7	23.1	19.6	16.0	12.4	7.1	7.1	7.1	8.9	10.7	16.0
80°	14.2	12.4	8.9	8.9	7.1	5.3	7.1	5.3	3.6	8.9	10.7
82.5°	8.9	7.1	7.1	7.1	8.9	3.6	5.3	3.6	5.3	7.1	5.3
85°	5.3	5.3	5.3	3.6	8.9	3.6	3.6	1.8	1.8	3.6	3.6
87.5°	0.0	1.8	1.8	0.0	1.8	0.0	1.8	1.8	1.8	1.8	1.8
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°	3348.6	3348.6	3348.6	3348.6	3348.6	3348.6	3348.6	3348.6	3348.6	3348.6	3348.6
2.5°	3354.0	3352.2	3354.0	3352.2	3352.2	3352.2	3354.0	3354.0	3352.2	3352.2	3355.8
5°	3368.2	3368.2	3368.2	3366.4	3364.6	3364.6	3368.2	3368.2	3362.8	3368.2	3368.2
7.5°	3398.4	3393.1	3398.4	3391.3	3387.8	3389.5	3391.3	3387.8	3384.2	3386.0	3386.0
10°	3437.5	3432.2	3432.2	3426.9	3421.5	3418.0	3414.4	3405.5	3396.6	3394.9	3387.8
12.5°	3483.7	3474.8	3469.5	3458.8	3450.0	3437.5	3426.9	3412.6	3394.9	3382.4	3370.0
15°	3529.9	3515.7	3503.3	3485.5	3466.0	3444.6	3421.5	3398.4	3370.0	3345.1	3323.7
17.5°	3567.3	3547.7	3524.6	3496.2	3467.7	3435.7	3402.0	3368.2	3327.3	3295.3	3270.4
20°	3579.7	3551.3	3521.1	3483.7	3446.4	3402.0	3359.3	3314.9	3268.6	3234.9	3206.5
22.5°	3563.7	3529.9	3492.6	3453.5	3403.7	3355.8	3306.0	3254.4	3213.5	3167.4	3140.7
25°	3519.3	3478.4	3437.5	3391.3	3343.3	3290.0	3236.7	3183.4	3133.6	3108.7	3074.9
27.5°	3428.6	3384.2	3339.8	3291.8	3236.7	3183.4	3128.3	3076.7	3034.1	3000.3	2980.7
30°	3268.6	3217.1	3165.6	3114.0	3066.0	3010.9	2959.4	2916.7	2874.1	2847.4	2827.9
32.5°	3023.4	2977.2	2925.6	2875.8	2831.4	2785.2	2742.5	2705.2	2675.0	2657.2	2643.0
35°	2692.8	2646.6	2607.5	2571.9	2534.6	2515.0	2488.4	2467.0	2454.6	2447.5	2445.7
37.5°	2276.9	2250.2	2237.8	2230.7	2223.5	2218.2	2221.7	2230.7	2237.8	2250.2	2264.4
40°	1832.5	1855.6	1862.7	1887.6	1910.7	1940.9	1974.7	2013.8	2045.8	2086.7	2115.1
42.5°	1427.3	1469.9	1519.7	1573.0	1629.9	1685.0	1752.5	1814.7	1871.6	1923.1	1967.6
45°	1096.7	1162.4	1237.1	1313.5	1390.0	1469.9	1551.7	1628.1	1695.6	1750.7	1797.0
47.5°	854.9	927.8	1023.8	1118.0	1210.4	1304.6	1395.3	1475.2	1532.1	1585.4	1626.3
50°	677.2	760.7	865.6	974.0	1075.3	1174.8	1270.8	1345.5	1402.4	1445.1	1475.2
52.5°	524.3	623.9	730.5	844.3	952.7	1061.1	1150.0	1219.3	1265.5	1302.8	1325.9
55°	391.0	488.8	602.6	719.9	830.1	934.9	1018.5	1078.9	1119.8	1141.1	1153.5
57.5°	282.6	371.5	485.2	602.6	702.1	801.6	869.2	924.3	947.4	959.8	965.1
60°	206.2	287.9	389.2	490.6	584.8	664.7	723.4	760.7	778.5	785.6	783.8
62.5°	151.1	222.2	309.3	394.6	471.0	536.8	583.0	607.9	616.8	620.3	615.0
65°	115.5	170.6	245.3	311.0	369.7	417.7	451.5	467.5	472.8	471.0	467.5
67.5°	85.3	128.0	183.1	232.8	275.5	312.8	330.6	344.8	348.4	343.1	337.7
70°	60.5	94.2	133.3	167.1	199.1	220.4	239.9	241.7	241.7	239.9	236.4
72.5°	42.7	65.8	90.6	113.8	133.3	149.3	156.4	161.7	160.0	158.2	154.7
75°	28.4	40.9	65.8	71.1	88.9	94.2	101.3	101.3	103.1	97.8	97.8
77.5°	17.8	28.4	39.1	46.2	53.3	60.5	64.0	64.0	65.8	64.0	64.0
80°	10.7	17.8	21.3	32.0	32.0	37.3	39.1	40.9	37.3	42.7	37.3
82.5°	7.1	10.7	16.0	16.0	19.6	23.1	23.1	24.9	24.9	23.1	23.1
85°	5.3	7.1	8.9	10.7	10.7	12.4	10.7	10.7	12.4	14.2	12.4
87.5°	1.8	3.6	1.8	3.6	3.6	7.1	5.3	5.3	5.3	7.1	7.1
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: P248470

CATALOG NUMBER: LSR8B60D010 EC8B60850 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	3348.6	3348.6	3348.6	3348.6
2.5°	3352.2	3354.0	3352.2	3352.2
5°	3368.2	3366.4	3368.2	3364.6
7.5°	3380.6	3380.6	3378.9	3378.9
10°	3380.6	3373.5	3373.5	3373.5
12.5°	3354.0	3345.1	3339.8	3336.2
15°	3307.7	3291.8	3284.7	3282.9
17.5°	3247.3	3233.1	3224.2	3218.9
20°	3178.0	3163.8	3153.1	3154.9
22.5°	3117.6	3101.6	3094.5	3090.9
25°	3057.2	3037.6	3032.3	3028.7
27.5°	2959.4	2948.7	2943.4	2938.1
30°	2810.1	2804.7	2795.9	2808.3
32.5°	2637.7	2628.8	2621.7	2627.0
35°	2447.5	2442.2	2447.5	2443.9
37.5°	2273.3	2278.6	2285.8	2289.3
40°	2136.5	2156.0	2163.1	2166.6
42.5°	1999.6	2022.7	2036.9	2045.8
45°	1830.7	1853.8	1869.8	1880.5
47.5°	1656.5	1676.1	1692.1	1690.3
50°	1498.4	1509.0	1516.1	1523.2
52.5°	1338.4	1338.4	1340.2	1340.2
55°	1157.1	1153.5	1151.8	1153.5
57.5°	958.0	954.5	952.7	947.4
60°	776.7	766.1	759.0	759.0
62.5°	607.9	595.4	590.1	588.3
65°	456.8	455.0	444.3	442.6
67.5°	330.6	323.5	316.4	318.2
70°	232.8	222.2	222.2	218.6
72.5°	151.1	145.7	144.0	144.0
75°	94.2	94.2	90.6	97.8
77.5°	62.2	62.2	60.5	62.2
80°	37.3	37.3	37.3	35.5
82.5°	23.1	24.9	23.1	23.1
85°	12.4	14.2	10.7	16.0
87.5°	7.1	8.9	7.1	8.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)