

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: P251208

Luminaire Tested: **LSR8B60D010 EC8B60930 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B60D010 EC8B60930 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5888.6 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

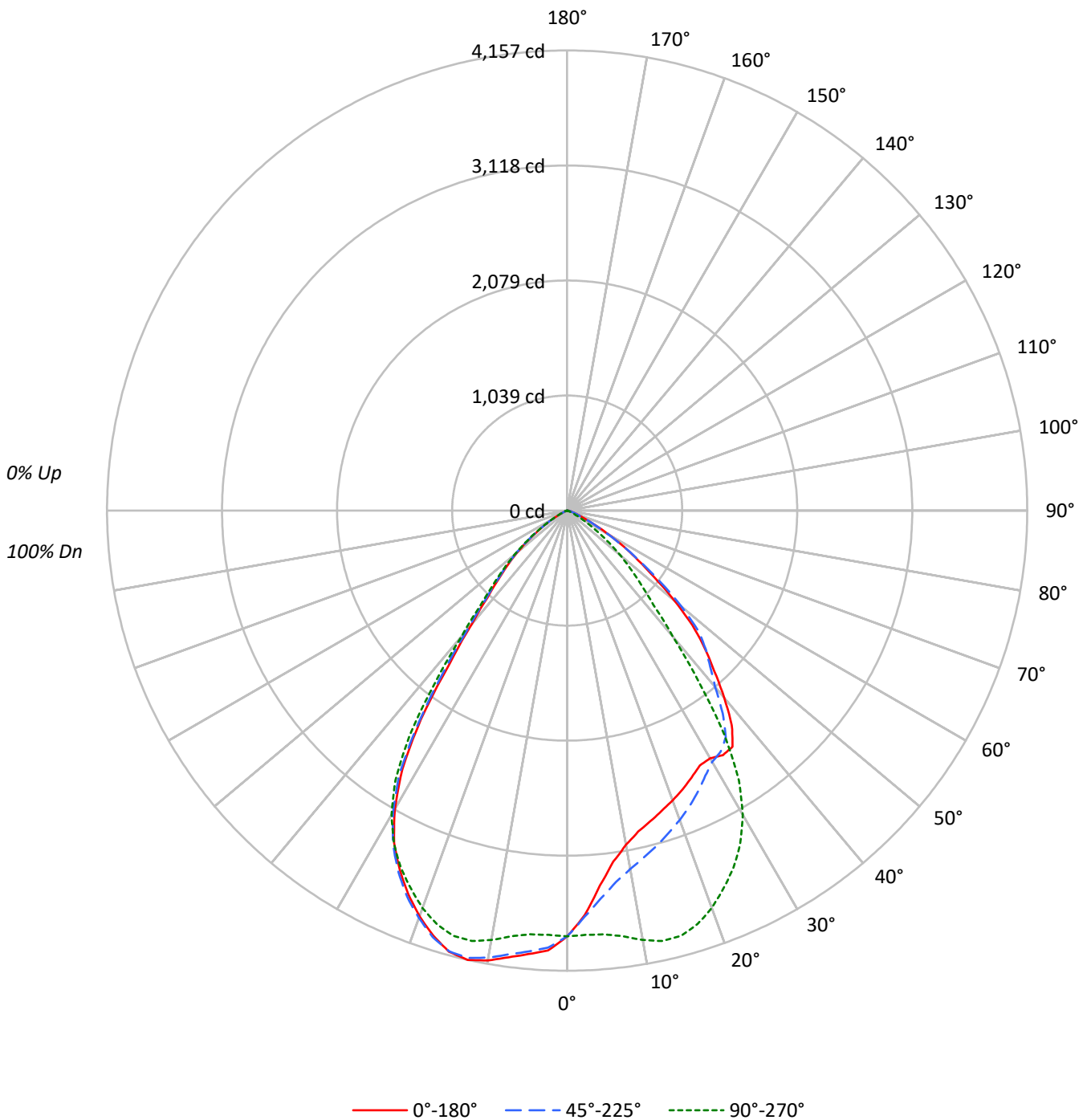
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67					67			
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60					60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	118624	118624	118624
5°	105247	118923	124491
10°	95959	123335	129218
15°	92733	126940	131681
20°	91410	125374	127963
25°	90511	121051	121806
30°	91990	112973	110883
35°	98056	93489	86713
40°	88861	59850	54194
45°	76695	40945	38127
50°	60518	29868	28126
55°	42004	18370	17279
60°	26741	9288	8289
65°	13345	3692	2809
70°	7375	1821	1001
75°	5302	1322	477
80°	4297	888	178
85°	4635	708	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.5	6.1
10°-20°	1035.6	17.6
20°-30°	1503.1	25.5
30°-40°	1480.4	25.1
40°-50°	928.0	15.8
50°-60°	447.8	7.6
60°-70°	108.4	1.8
70°-80°	21.9	0.4
80°-90°	5.0	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°	2897.2	49.2
0°-40°	4377.6	74.3
0°-60°	5753.3	97.7
0°-90°	5888.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5888.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3847	3847	3847	3847	3847	
5°	3400	3515	3842	3998	4022	315
15°	2905	3133	3976	4122	4125	821
25°	2660	2799	3558	3606	3580	1231
35°	2605	2499	2484	2342	2304	1576
45°	1759	1771	939	900	874	1345
55°	781	807	342	338	321	719
65°	183	181	51	44	38	209
75°	44	38	11	5	4	50
85°	13	10	2	0	0	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3846.9	3846.9	3846.9	3846.9	3846.9	3846.9	3846.9	3846.9	3846.9	3846.9	3846.9
2.5°	3656.9	3633.6	3590.2	3642.7	3642.7	3613.4	3672.1	3636.6	3665.0	3709.5	3670.0
5°	3400.1	3380.9	3344.6	3400.1	3407.3	3379.9	3450.7	3424.4	3465.9	3520.4	3515.3
7.5°	3197.0	3172.8	3139.4	3197.0	3208.1	3189.9	3257.6	3245.5	3300.1	3370.8	3383.0
10°	3064.6	3039.4	3010.0	3062.6	3070.6	3058.5	3127.3	3120.2	3173.8	3255.6	3288.0
12.5°	2970.5	2949.4	2917.1	2972.7	2981.7	2964.5	3029.2	3026.1	3081.7	3167.7	3208.1
15°	2904.8	2879.6	2850.4	2897.8	2909.9	2890.7	2952.4	2946.3	3002.9	3087.8	3133.3
17.5°	2843.2	2820.0	2789.7	2834.1	2846.2	2826.0	2886.7	2876.6	2925.1	3006.0	3052.5
20°	2785.6	2760.4	2733.1	2778.5	2785.6	2762.4	2823.0	2809.9	2853.4	2928.2	2973.7
22.5°	2725.9	2699.7	2671.5	2715.8	2722.9	2699.7	2755.3	2740.2	2780.5	2848.2	2889.7
25°	2660.2	2636.0	2607.8	2649.1	2655.2	2630.0	2688.6	2669.4	2704.7	2764.4	2798.8
27.5°	2594.6	2571.3	2540.0	2582.4	2585.5	2561.3	2614.8	2588.5	2617.9	2672.5	2701.7
30°	2583.5	2557.2	2524.8	2559.2	2560.3	2528.9	2579.4	2548.1	2564.3	2604.8	2621.9
32.5°	2618.9	2592.5	2559.2	2587.5	2584.5	2550.2	2598.6	2560.3	2565.3	2586.5	2582.4
35°	2604.8	2573.4	2533.9	2564.3	2564.3	2522.8	2571.3	2525.8	2520.8	2523.8	2498.6
37.5°	2444.0	2419.7	2382.3	2411.6	2408.6	2377.3	2414.6	2377.3	2360.2	2353.0	2307.6
40°	2207.5	2178.2	2149.9	2181.2	2184.3	2150.9	2199.4	2156.9	2151.9	2131.7	2078.1
42.5°	1967.9	1957.8	1930.6	1956.8	1970.9	1942.7	1983.0	1962.9	1965.9	1960.9	1910.3
45°	1758.7	1741.5	1721.3	1751.7	1760.8	1746.6	1787.0	1774.9	1787.0	1812.3	1770.8
47.5°	1533.3	1516.2	1493.8	1526.2	1542.4	1516.2	1550.5	1546.4	1564.7	1608.1	1604.0
50°	1261.5	1249.2	1245.2	1249.2	1259.4	1247.2	1271.6	1272.6	1284.7	1344.3	1348.3
52.5°	998.6	995.6	981.4	994.6	994.6	975.4	999.6	988.5	1000.6	1041.1	1067.3
55°	781.3	778.3	769.2	781.3	768.2	761.0	768.2	757.0	747.9	779.3	806.6
57.5°	608.5	598.4	587.3	592.3	591.3	576.1	584.3	571.0	564.0	575.1	599.4
60°	433.6	430.6	420.5	425.5	429.6	418.5	426.5	420.5	408.4	417.5	418.5
62.5°	288.1	290.1	284.1	285.1	282.0	280.0	285.1	288.1	285.1	281.0	282.0
65°	182.9	181.9	180.9	181.9	184.0	179.9	182.9	185.0	181.9	181.9	180.9
67.5°	121.3	118.3	115.2	117.3	119.3	116.2	119.3	118.3	119.3	118.3	115.2
70°	81.8	80.8	79.8	80.8	80.8	78.8	80.8	79.8	80.8	79.8	76.8
72.5°	59.6	59.6	58.6	59.6	59.6	57.6	58.6	56.6	57.6	56.6	54.6
75°	44.5	44.5	43.5	44.5	43.5	42.5	43.5	42.5	40.5	40.5	38.5
77.5°	32.4	32.4	32.4	32.4	32.4	31.4	31.4	30.3	29.3	28.2	28.2
80°	24.2	23.2	23.2	23.2	23.2	22.2	23.2	22.2	21.2	20.2	19.2
82.5°	17.2	18.2	17.2	17.2	17.2	16.1	17.2	16.1	16.1	15.1	13.1
85°	13.1	13.1	13.1	13.1	13.1	12.1	12.1	12.1	11.1	11.1	10.1
87.5°	7.1	7.1	7.1	8.1	7.1	7.1	7.1	6.1	6.1	5.0	5.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3846.9	3846.9	3846.9	3846.9	3846.9	3846.9	3846.9	3846.9	3846.9	3846.9	3846.9
2.5°	3722.6	3727.7	3716.6	3733.7	3800.4	3746.8	3769.1	3776.2	3826.6	3835.8	3829.8
5°	3581.0	3603.3	3617.5	3655.9	3729.7	3691.2	3730.7	3755.9	3820.6	3841.9	3846.9
7.5°	3469.9	3516.4	3550.8	3613.4	3700.3	3671.1	3730.7	3772.2	3851.0	3878.2	3891.4
10°	3387.0	3457.7	3517.4	3603.3	3701.3	3682.1	3759.9	3818.6	3906.6	3938.9	3955.1
12.5°	3324.3	3410.3	3490.1	3599.3	3705.4	3696.3	3790.3	3857.0	3950.0	3982.4	4001.5
15°	3255.6	3354.7	3447.6	3569.9	3684.2	3682.1	3783.3	3854.0	3948.9	3976.3	3994.5
17.5°	3173.8	3279.9	3381.9	3514.3	3627.6	3629.6	3731.7	3801.4	3894.5	3916.7	3928.8
20°	3090.8	3196.0	3298.1	3434.5	3545.7	3548.7	3648.9	3713.5	3802.4	3820.6	3823.6
22.5°	3002.9	3101.0	3203.0	3338.5	3445.6	3447.6	3546.7	3607.4	3683.2	3692.2	3700.3
25°	2902.8	2998.9	3095.0	3229.4	3331.4	3337.4	3427.5	3481.0	3550.8	3557.8	3560.9
27.5°	2798.8	2877.6	2969.5	3084.8	3187.9	3183.9	3268.7	3329.4	3392.0	3388.0	3387.0
30°	2693.7	2759.3	2816.0	2927.2	3002.9	3006.0	3085.8	3115.1	3180.8	3172.8	3171.8
32.5°	2619.9	2637.0	2652.2	2708.8	2780.5	2755.3	2809.9	2846.2	2891.7	2888.7	2889.7
35°	2484.5	2453.1	2407.6	2415.6	2459.1	2419.7	2449.0	2448.0	2494.6	2483.5	2496.6
37.5°	2253.0	2164.0	2063.0	2005.4	2013.4	1963.9	1953.8	1978.0	1994.3	1962.9	1974.0
40°	2006.4	1875.0	1717.3	1585.9	1578.8	1517.2	1506.1	1481.7	1513.1	1486.8	1494.9
42.5°	1824.4	1650.6	1443.4	1283.7	1249.2	1197.8	1167.4	1163.4	1172.5	1154.3	1149.2
45°	1684.9	1499.9	1262.5	1079.5	1041.1	985.5	955.2	944.0	945.0	938.9	933.9
47.5°	1521.2	1335.2	1094.7	907.7	864.2	811.6	781.3	774.3	778.3	770.2	764.1
50°	1294.8	1128.0	908.7	737.8	699.4	661.1	636.7	629.7	628.7	622.6	618.6
52.5°	1051.2	912.7	722.7	580.1	545.8	508.4	491.2	482.1	483.2	477.1	471.0
55°	813.6	727.8	559.9	438.6	407.4	378.0	361.9	350.8	347.7	341.7	338.7
57.5°	605.5	547.8	419.5	316.3	298.2	269.8	253.7	240.6	238.5	235.5	234.5
60°	424.5	383.0	295.2	225.4	204.1	187.0	170.8	157.7	151.6	150.6	147.5
62.5°	274.9	249.6	194.0	150.6	134.4	122.3	106.2	97.1	93.0	88.9	89.9
65°	170.8	151.6	121.3	97.1	87.9	78.8	66.7	58.6	54.6	50.6	51.6
67.5°	106.2	95.1	76.8	62.7	56.6	49.5	40.5	34.4	31.4	28.2	26.2
70°	71.7	61.7	52.6	44.5	40.5	35.4	29.3	24.2	22.2	20.2	18.2
72.5°	50.6	45.5	38.5	33.4	30.3	26.2	22.2	19.2	17.2	15.1	13.1
75°	36.4	32.4	28.2	24.2	22.2	20.2	17.2	15.1	13.1	11.1	9.1
77.5°	26.2	23.2	20.2	18.2	17.2	14.1	12.1	11.1	10.1	8.1	6.1
80°	18.2	16.1	13.1	12.1	12.1	10.1	9.1	8.1	7.1	5.0	4.0
82.5°	12.1	11.1	10.1	9.1	8.1	7.1	7.1	5.0	4.0	3.0	2.0
85°	9.1	8.1	7.1	6.1	6.1	5.0	4.0	3.0	3.0	2.0	1.0
87.5°	5.0	5.0	4.0	3.0	3.0	2.0	2.0	1.0	1.0	1.0	1.0
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3846.9	3846.9	3846.9	3846.9	3846.9	3846.9	3846.9	3846.9	3846.9	3846.9	3846.9
2.5°	3881.2	3884.3	3901.5	3888.3	3921.7	3945.9	3933.8	3961.2	3952.0	3950.0	3981.3
5°	3907.6	3914.6	3937.8	3925.7	3962.2	3988.4	3976.3	4006.6	3997.5	3995.5	4027.9
7.5°	3958.1	3965.2	3985.4	3975.3	4013.7	4036.9	4021.8	4055.1	4043.0	4042.0	4073.3
10°	4021.8	4031.9	4049.1	4039.0	4074.3	4094.6	4079.4	4111.7	4100.6	4095.6	4129.9
12.5°	4069.2	4076.4	4093.6	4085.5	4119.8	4134.9	4121.8	4153.2	4139.1	4134.9	4165.3
15°	4058.1	4065.2	4079.4	4072.3	4104.7	4118.8	4101.6	4136.0	4121.8	4113.7	4141.1
17.5°	3987.4	3991.4	4001.5	3994.5	4028.9	4038.0	4018.8	4053.1	4040.0	4025.8	4052.1
20°	3883.3	3881.2	3887.3	3884.3	3912.6	3917.7	3905.6	3930.8	3915.7	3907.6	3922.7
22.5°	3753.9	3751.9	3755.9	3747.8	3776.2	3779.2	3761.0	3791.3	3776.2	3761.0	3786.3
25°	3610.4	3599.3	3597.3	3600.3	3619.5	3622.5	3603.3	3625.5	3606.4	3594.3	3618.5
27.5°	3433.5	3419.4	3416.4	3419.4	3438.6	3424.4	3408.3	3424.4	3405.3	3394.1	3409.3
30°	3215.1	3195.0	3185.9	3179.8	3200.0	3195.0	3157.6	3175.8	3145.4	3129.3	3140.4
32.5°	2921.1	2909.9	2885.7	2871.6	2890.7	2852.4	2829.1	2829.1	2817.0	2789.7	2795.8
35°	2512.7	2495.6	2473.3	2461.2	2464.2	2412.6	2374.3	2382.3	2341.9	2334.8	2337.8
37.5°	1996.3	1967.9	1959.8	1934.6	1940.7	1895.2	1842.6	1843.6	1822.4	1800.1	1793.0
40°	1499.9	1494.9	1486.8	1465.6	1473.7	1424.1	1403.9	1404.9	1390.8	1374.6	1382.8
42.5°	1159.3	1143.2	1138.2	1131.0	1133.0	1124.9	1098.7	1101.7	1089.6	1085.6	1081.5
45°	942.0	924.8	912.7	918.8	918.8	909.7	899.6	905.7	899.6	891.5	895.6
47.5°	776.3	760.0	754.0	753.0	760.0	754.0	743.9	745.9	744.9	741.9	739.9
50°	619.6	615.5	610.5	607.5	610.5	608.5	599.4	604.4	607.5	597.4	600.4
52.5°	472.1	472.1	471.0	464.0	470.0	464.0	463.0	465.0	462.0	457.8	456.8
55°	345.7	342.7	337.6	336.5	338.7	336.5	334.5	335.5	337.6	327.4	327.4
57.5°	236.5	234.5	231.5	231.5	235.5	230.5	227.5	231.5	227.5	223.4	223.4
60°	151.6	150.6	147.5	147.5	147.5	146.5	143.5	144.5	146.5	140.5	141.5
62.5°	90.9	87.9	86.9	85.9	86.9	85.9	85.9	84.9	83.9	83.9	80.8
65°	49.5	47.5	45.5	46.5	46.5	45.5	45.5	45.5	43.5	42.5	41.5
67.5°	25.2	23.2	23.2	22.2	22.2	22.2	22.2	21.2	21.2	21.2	20.2
70°	16.1	15.1	14.1	14.1	14.1	13.1	13.1	13.1	13.1	13.1	12.1
72.5°	11.1	10.1	9.1	9.1	9.1	8.1	8.1	8.1	8.1	7.1	7.1
75°	8.1	7.1	6.1	6.1	6.1	5.0	5.0	5.0	5.0	5.0	5.0
77.5°	5.0	4.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0	2.0
80°	3.0	3.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
82.5°	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



TEST NUMBER: P251208

CATALOG NUMBER: LSR8B60D010 EC8B60930 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3846.9	3846.9	3846.9	3846.9	3846.9	3846.9	3846.9	3846.9
2.5°	3970.2	3962.2	3967.2	4004.5	3988.4	3983.4	3940.9	3978.3
5°	4017.8	4011.6	4011.6	4054.1	4034.9	4030.9	3989.4	4021.8
7.5°	4062.2	4056.1	4057.1	4100.6	4085.5	4079.4	4038.0	4070.2
10°	4119.8	4115.8	4116.8	4158.2	4142.1	4136.0	4093.6	4126.8
12.5°	4154.2	4148.1	4148.1	4192.5	4174.4	4165.3	4124.8	4157.2
15°	4127.9	4118.8	4118.8	4163.3	4143.1	4129.9	4094.6	4124.8
17.5°	4038.0	4028.9	4028.9	4067.2	4052.1	4032.9	3996.5	4024.8
20°	3912.6	3901.5	3898.5	3942.9	3921.7	3904.6	3872.2	3899.5
22.5°	3771.2	3766.0	3756.9	3801.4	3782.3	3764.0	3729.7	3750.9
25°	3601.3	3593.3	3584.1	3627.6	3608.4	3590.2	3562.9	3580.0
27.5°	3390.0	3391.0	3386.0	3420.4	3401.2	3391.0	3357.7	3386.0
30°	3134.3	3123.2	3119.2	3159.7	3141.4	3128.3	3086.8	3114.1
32.5°	2800.8	2784.6	2763.4	2808.9	2777.5	2766.4	2731.1	2770.4
35°	2315.6	2310.6	2291.3	2329.8	2312.6	2292.3	2270.1	2303.5
37.5°	1790.0	1794.0	1792.0	1802.1	1792.0	1778.9	1754.7	1742.5
40°	1366.5	1356.4	1348.3	1366.5	1345.3	1345.3	1331.2	1346.3
42.5°	1071.3	1067.3	1077.5	1081.5	1069.3	1067.3	1065.3	1064.3
45°	884.4	884.4	886.4	890.5	886.4	884.4	878.3	874.3
47.5°	728.8	732.8	728.8	741.9	734.8	732.8	720.7	725.7
50°	590.3	585.3	590.3	594.4	595.4	589.3	583.3	586.3
52.5°	457.8	449.7	447.7	453.8	449.7	449.7	445.7	444.7
55°	322.4	325.4	320.4	325.4	323.4	320.4	317.4	321.4
57.5°	218.4	219.4	217.4	220.4	215.3	216.4	215.3	214.2
60°	141.5	137.4	137.4	140.5	135.4	135.4	134.4	134.4
62.5°	80.8	79.8	79.8	78.8	77.8	77.8	77.8	75.8
65°	41.5	40.5	39.5	39.5	39.5	39.5	38.5	38.5
67.5°	20.2	19.2	19.2	20.2	19.2	19.2	19.2	19.2
70°	12.1	12.1	11.1	12.1	11.1	11.1	11.1	11.1
72.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
75°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
77.5°	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)