

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 EC8B609730 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 EC8B609730 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: 5253.0 lumens
Efficiency: N/A
Efficacy: 88.3 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

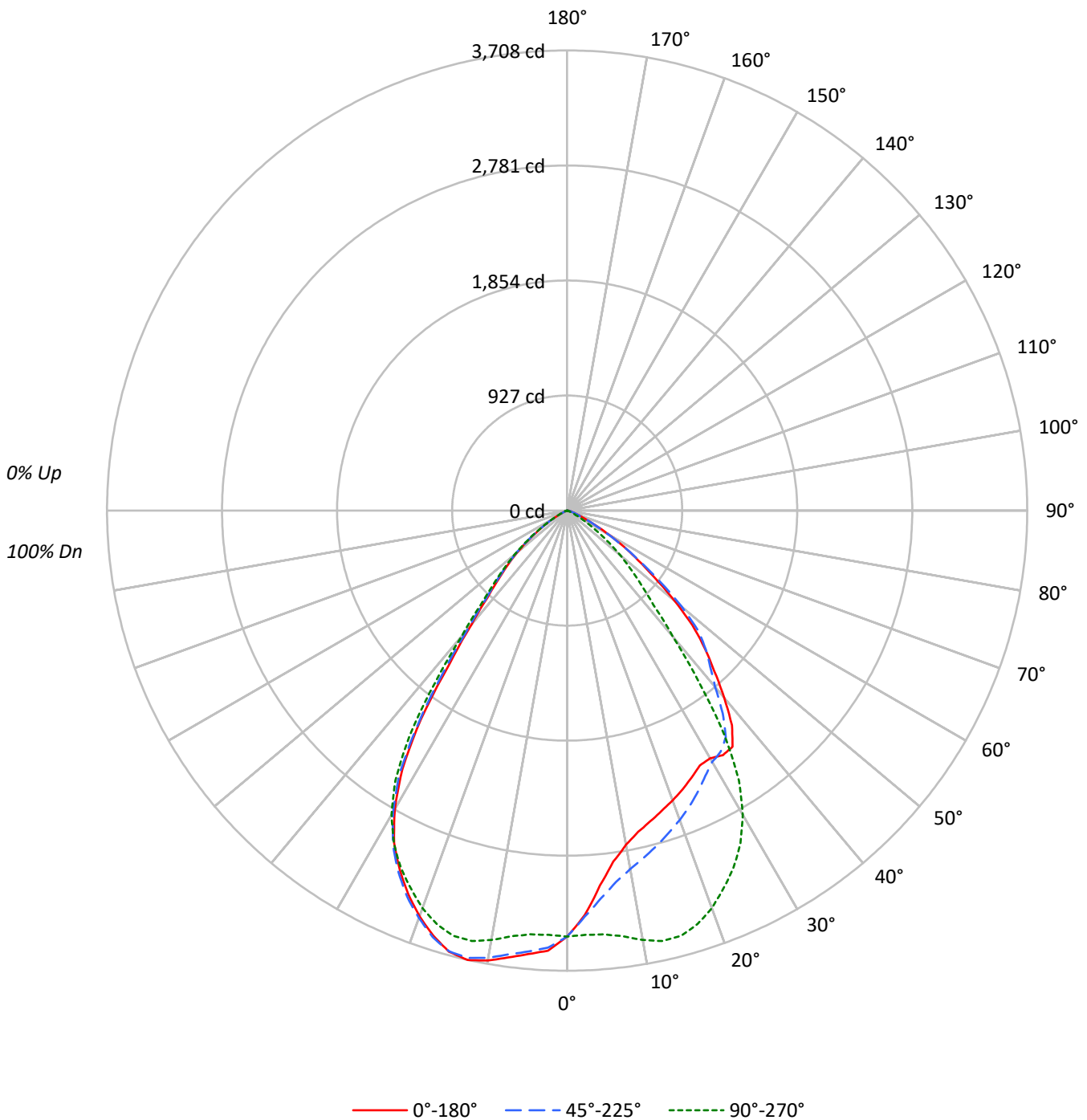
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	105821	105821	105821
5°	93887	106086	111054
10°	85601	110021	115272
15°	82725	113238	117468
20°	81543	111841	114151
25°	80743	107986	108659
30°	82059	100778	98915
35°	87470	83397	77355
40°	79268	53389	48345
45°	68418	36527	34011
50°	53984	26644	25090
55°	37472	16386	15413
60°	23855	8283	7395
65°	11908	3291	2503
70°	6582	1623	893
75°	4730	1180	429
80°	3836	799	160
85°	4140	637	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.8	6.1
10°-20°	923.8	17.6
20°-30°	1340.8	25.5
30°-40°	1320.6	25.1
40°-50°	827.8	15.8
50°-60°	399.5	7.6
60°-70°	96.7	1.8
70°-80°	19.5	0.4
80°-90°	4.5	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°	2584.5	49.2
0°-40°	3905.1	74.3
0°-60°	5132.3	97.7
0°-90°	5253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5253.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3432	3432	3432	3432	3432	
5°	3033	3136	3427	3566	3588	281
15°	2591	2795	3547	3677	3680	733
25°	2373	2497	3174	3217	3194	1098
35°	2324	2229	2215	2089	2055	1406
45°	1569	1580	838	802	780	1199
55°	697	720	305	301	287	641
65°	163	161	45	39	34	186
75°	40	34	10	4	4	45
85°	12	9	2	0	0	12
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°	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7
2.5°	3262.2	3241.4	3202.7	3249.5	3249.5	3223.4	3275.7	3244.1	3269.4	3309.1	3273.9
5°	3033.1	3016.0	2983.6	3033.1	3039.5	3015.1	3078.2	3054.8	3091.8	3140.4	3135.9
7.5°	2851.9	2830.3	2800.5	2851.9	2861.8	2845.6	2906.0	2895.2	2943.9	3007.0	3017.8
10°	2733.8	2711.3	2685.1	2732.0	2739.2	2728.4	2789.7	2783.4	2831.2	2904.2	2933.1
12.5°	2649.9	2631.0	2602.2	2651.8	2659.9	2644.5	2702.2	2699.5	2749.1	2825.8	2861.8
15°	2591.3	2568.8	2542.7	2585.0	2595.8	2578.7	2633.7	2628.3	2678.8	2754.5	2795.1
17.5°	2536.3	2515.6	2488.6	2528.2	2539.0	2521.0	2575.1	2566.1	2609.4	2681.5	2723.0
20°	2484.9	2462.4	2438.1	2478.6	2484.9	2464.2	2518.3	2506.6	2545.4	2612.1	2652.7
22.5°	2431.7	2408.3	2383.1	2422.7	2429.0	2408.3	2457.9	2444.4	2480.4	2540.8	2577.8
25°	2373.1	2351.5	2326.3	2363.2	2368.6	2346.1	2398.4	2381.3	2412.8	2466.0	2496.7
27.5°	2314.5	2293.8	2265.8	2303.7	2306.4	2284.8	2332.6	2309.1	2335.3	2384.0	2410.1
30°	2304.6	2281.2	2252.3	2283.0	2283.9	2255.9	2301.0	2273.1	2287.5	2323.6	2338.9
32.5°	2336.2	2312.7	2283.0	2308.2	2305.5	2274.9	2318.1	2283.9	2288.4	2307.3	2303.7
35°	2323.6	2295.6	2260.4	2287.5	2287.5	2250.5	2293.8	2253.2	2248.7	2251.4	2228.9
37.5°	2180.2	2158.5	2125.2	2151.3	2148.6	2120.7	2154.0	2120.7	2105.4	2099.0	2058.5
40°	1969.2	1943.1	1917.8	1945.8	1948.5	1918.7	1962.0	1924.1	1919.6	1901.6	1853.8
42.5°	1755.5	1746.5	1722.2	1745.6	1758.2	1733.0	1769.0	1751.0	1753.7	1749.2	1704.1
45°	1568.9	1553.5	1535.5	1562.6	1570.7	1558.1	1594.1	1583.3	1594.1	1616.7	1579.7
47.5°	1367.8	1352.5	1332.6	1361.5	1375.9	1352.5	1383.1	1379.5	1395.8	1434.5	1430.9
50°	1125.3	1114.4	1110.8	1114.4	1123.5	1112.6	1134.3	1135.2	1146.0	1199.2	1202.8
52.5°	890.8	888.1	875.5	887.2	887.2	870.1	891.7	881.8	892.6	928.7	952.1
55°	697.0	694.3	686.2	697.0	685.3	678.9	685.3	675.3	667.2	695.2	719.5
57.5°	542.8	533.8	523.9	528.4	527.5	513.9	521.2	509.4	503.1	513.0	534.7
60°	386.8	384.1	375.1	379.6	383.2	373.3	380.5	375.1	364.3	372.4	373.3
62.5°	257.0	258.8	253.4	254.3	251.6	249.8	254.3	257.0	254.3	250.7	251.6
65°	163.2	162.3	161.4	162.3	164.1	160.5	163.2	165.0	162.3	162.3	161.4
67.5°	108.2	105.5	102.8	104.6	106.4	103.7	106.4	105.5	106.4	105.5	102.8
70°	73.0	72.1	71.2	72.1	72.1	70.3	72.1	71.2	72.1	71.2	68.5
72.5°	53.2	53.2	52.3	53.2	53.2	51.4	52.3	50.5	51.4	50.5	48.7
75°	39.7	39.7	38.8	39.7	38.8	37.9	38.8	37.9	36.1	36.1	34.3
77.5°	28.9	28.9	28.9	28.9	28.9	28.0	28.0	27.0	26.1	25.2	25.2
80°	21.6	20.7	20.7	20.7	20.7	19.8	20.7	19.8	18.9	18.0	17.1
82.5°	15.3	16.2	15.3	15.3	15.3	14.4	15.3	14.4	14.4	13.5	11.7
85°	11.7	11.7	11.7	11.7	11.7	10.8	10.8	10.8	9.9	9.9	9.0
87.5°	6.3	6.3	6.3	7.2	6.3	6.3	6.3	5.4	5.4	4.5	4.5
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7
2.5°	3320.8	3325.3	3315.4	3330.7	3390.2	3342.4	3362.3	3368.6	3413.6	3421.8	3416.4
5°	3194.5	3214.4	3227.0	3261.3	3327.1	3292.8	3328.0	3350.5	3408.2	3427.2	3431.7
7.5°	3095.4	3136.8	3167.5	3223.4	3300.9	3274.8	3328.0	3365.0	3435.3	3459.6	3471.4
10°	3021.4	3084.5	3137.7	3214.4	3301.8	3284.7	3354.1	3406.4	3484.9	3513.7	3528.2
12.5°	2965.5	3042.2	3113.4	3210.8	3305.4	3297.3	3381.2	3440.7	3523.6	3552.5	3569.6
15°	2904.2	2992.6	3075.5	3184.6	3286.5	3284.7	3374.9	3438.0	3522.7	3547.1	3563.3
17.5°	2831.2	2925.9	3016.9	3135.0	3236.0	3237.8	3328.9	3391.1	3474.1	3493.9	3504.7
20°	2757.2	2851.0	2942.1	3063.8	3163.0	3165.7	3255.0	3312.7	3392.0	3408.2	3410.9
22.5°	2678.8	2766.3	2857.3	2978.1	3073.7	3075.5	3163.9	3218.0	3285.6	3293.7	3300.9
25°	2589.5	2675.2	2760.9	2880.8	2971.8	2977.2	3057.5	3105.3	3167.5	3173.8	3176.5
27.5°	2496.7	2567.0	2649.0	2751.8	2843.8	2840.2	2915.9	2970.0	3025.9	3022.3	3021.4
30°	2402.9	2461.5	2512.0	2611.2	2678.8	2681.5	2752.7	2778.9	2837.5	2830.3	2829.4
32.5°	2337.1	2352.4	2365.9	2416.4	2480.4	2457.9	2506.6	2539.0	2579.6	2576.9	2577.8
35°	2216.3	2188.3	2147.7	2154.9	2193.7	2158.5	2184.7	2183.8	2225.3	2215.4	2227.1
37.5°	2009.8	1930.4	1840.3	1788.9	1796.1	1751.9	1742.9	1764.5	1779.0	1751.0	1760.9
40°	1789.8	1672.6	1531.9	1414.7	1408.4	1353.4	1343.5	1321.8	1349.8	1326.3	1333.5
42.5°	1627.5	1472.4	1287.6	1145.1	1114.4	1068.5	1041.4	1037.8	1045.9	1029.7	1025.2
45°	1503.0	1338.0	1126.2	963.0	928.7	879.1	852.1	842.1	843.0	837.6	833.1
47.5°	1357.0	1191.1	976.5	809.7	770.9	724.0	697.0	690.7	694.3	687.1	681.6
50°	1155.0	1006.2	810.6	658.2	623.9	589.7	568.0	561.7	560.8	555.4	551.8
52.5°	937.7	814.2	644.7	517.5	486.9	453.5	438.2	430.1	431.0	425.6	420.2
55°	725.8	649.2	499.5	391.3	363.4	337.2	322.8	312.9	310.2	304.8	302.1
57.5°	540.1	488.7	374.2	282.2	266.0	240.7	226.3	214.6	212.8	210.1	209.2
60°	378.7	341.7	263.3	201.1	182.1	166.8	152.4	140.7	135.2	134.3	131.6
62.5°	245.2	222.7	173.1	134.3	119.9	109.1	94.7	86.6	83.0	79.3	80.2
65°	152.4	135.2	108.2	86.6	78.4	70.3	59.5	52.3	48.7	45.1	46.0
67.5°	94.7	84.8	68.5	55.9	50.5	44.2	36.1	30.7	28.0	25.2	23.4
70°	64.0	55.0	46.9	39.7	36.1	31.6	26.1	21.6	19.8	18.0	16.2
72.5°	45.1	40.6	34.3	29.8	27.0	23.4	19.8	17.1	15.3	13.5	11.7
75°	32.5	28.9	25.2	21.6	19.8	18.0	15.3	13.5	11.7	9.9	8.1
77.5°	23.4	20.7	18.0	16.2	15.3	12.6	10.8	9.9	9.0	7.2	5.4
80°	16.2	14.4	11.7	10.8	10.8	9.0	8.1	7.2	6.3	4.5	3.6
82.5°	10.8	9.9	9.0	8.1	7.2	6.3	6.3	4.5	3.6	2.7	1.8
85°	8.1	7.2	6.3	5.4	5.4	4.5	3.6	2.7	2.7	1.8	0.9
87.5°	4.5	4.5	3.6	2.7	2.7	1.8	1.8	0.9	0.9	0.9	0.9
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°	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7
2.5°	3462.3	3465.0	3480.4	3468.6	3498.4	3520.0	3509.2	3533.6	3525.4	3523.6	3551.6
5°	3485.8	3492.1	3512.8	3502.0	3534.5	3557.9	3547.1	3574.1	3566.0	3564.2	3593.1
7.5°	3530.9	3537.2	3555.2	3546.2	3580.5	3601.2	3587.7	3617.4	3606.6	3605.7	3633.6
10°	3587.7	3596.7	3612.0	3603.0	3634.5	3652.6	3639.1	3667.9	3658.0	3653.5	3684.1
12.5°	3630.0	3636.4	3651.7	3644.5	3675.1	3688.6	3676.9	3704.9	3692.3	3688.6	3715.7
15°	3620.1	3626.4	3639.1	3632.7	3661.6	3674.2	3658.9	3689.6	3676.9	3669.7	3694.1
17.5°	3557.0	3560.6	3569.6	3563.3	3594.0	3602.1	3585.0	3615.6	3603.9	3591.3	3614.7
20°	3464.1	3462.3	3467.7	3465.0	3490.3	3494.8	3484.0	3506.5	3493.0	3485.8	3499.3
22.5°	3348.7	3346.9	3350.5	3343.3	3368.6	3371.3	3355.0	3382.1	3368.6	3355.0	3377.6
25°	3220.7	3210.8	3209.0	3211.7	3228.8	3231.5	3214.4	3234.2	3217.1	3206.3	3227.9
27.5°	3062.9	3050.3	3047.6	3050.3	3067.4	3054.8	3040.4	3054.8	3037.7	3027.7	3041.3
30°	2868.1	2850.1	2842.0	2836.6	2854.6	2850.1	2816.8	2833.0	2805.9	2791.5	2801.4
32.5°	2605.8	2595.8	2574.2	2561.6	2578.7	2544.5	2523.7	2523.7	2512.9	2488.6	2494.0
35°	2241.5	2226.2	2206.3	2195.5	2198.2	2152.2	2118.0	2125.2	2089.1	2082.8	2085.5
37.5°	1780.8	1755.5	1748.3	1725.8	1731.2	1690.6	1643.7	1644.6	1625.7	1605.8	1599.5
40°	1338.0	1333.5	1326.3	1307.4	1314.6	1270.4	1252.4	1253.3	1240.7	1226.2	1233.5
42.5°	1034.2	1019.8	1015.3	1008.9	1010.7	1003.5	980.1	982.8	972.0	968.4	964.8
45°	840.3	825.0	814.2	819.6	819.6	811.5	802.5	807.9	802.5	795.3	798.9
47.5°	692.5	678.0	672.6	671.7	678.0	672.6	663.6	665.4	664.5	661.8	660.0
50°	552.7	549.1	544.6	541.9	544.6	542.8	534.7	539.2	541.9	532.9	535.6
52.5°	421.1	421.1	420.2	413.9	419.3	413.9	413.0	414.8	412.1	408.4	407.5
55°	308.4	305.7	301.2	300.2	302.1	300.2	298.4	299.3	301.2	292.1	292.1
57.5°	211.0	209.2	206.5	206.5	210.1	205.6	202.9	206.5	202.9	199.3	199.3
60°	135.2	134.3	131.6	131.6	131.6	130.7	128.0	128.9	130.7	125.3	126.2
62.5°	81.1	78.4	77.5	76.6	77.5	76.6	76.6	75.7	74.8	74.8	72.1
65°	44.2	42.4	40.6	41.5	41.5	40.6	40.6	40.6	38.8	37.9	37.0
67.5°	22.5	20.7	20.7	19.8	19.8	19.8	19.8	18.9	18.9	18.9	18.0
70°	14.4	13.5	12.6	12.6	12.6	11.7	11.7	11.7	11.7	11.7	10.8
72.5°	9.9	9.0	8.1	8.1	8.1	7.2	7.2	7.2	7.2	6.3	6.3
75°	7.2	6.3	5.4	5.4	5.4	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	4.5	3.6	3.6	3.6	3.6	2.7	2.7	2.7	2.7	2.7	1.8
80°	2.7	2.7	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9
82.5°	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
87.5°	0.9	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 EC8B609730 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7
2.5°	3541.7	3534.5	3539.0	3572.3	3557.9	3553.4	3515.5	3548.9
5°	3584.1	3578.6	3578.6	3616.5	3599.4	3595.8	3558.8	3587.7
7.5°	3623.7	3618.3	3619.2	3658.0	3644.5	3639.1	3602.1	3630.9
10°	3675.1	3671.5	3672.4	3709.4	3695.0	3689.6	3651.7	3681.4
12.5°	3705.8	3700.4	3700.4	3740.0	3723.8	3715.7	3679.6	3708.5
15°	3682.3	3674.2	3674.2	3713.9	3695.9	3684.1	3652.6	3679.6
17.5°	3602.1	3594.0	3594.0	3628.2	3614.7	3597.6	3565.1	3590.4
20°	3490.3	3480.4	3477.7	3517.3	3498.4	3483.1	3454.2	3478.6
22.5°	3364.1	3359.5	3351.4	3391.1	3374.0	3357.7	3327.1	3346.0
25°	3212.6	3205.4	3197.2	3236.0	3218.9	3202.7	3178.3	3193.6
27.5°	3024.1	3025.0	3020.5	3051.2	3034.1	3025.0	2995.3	3020.5
30°	2796.0	2786.1	2782.5	2818.6	2802.3	2790.6	2753.6	2778.0
32.5°	2498.5	2484.0	2465.1	2505.7	2477.7	2467.8	2436.3	2471.4
35°	2065.7	2061.2	2044.0	2078.3	2063.0	2044.9	2025.1	2054.9
37.5°	1596.8	1600.4	1598.6	1607.6	1598.6	1586.9	1565.3	1554.4
40°	1219.0	1210.0	1202.8	1219.0	1200.1	1200.1	1187.5	1201.0
42.5°	955.7	952.1	961.2	964.8	953.9	952.1	950.3	949.4
45°	788.9	788.9	790.7	794.4	790.7	788.9	783.5	779.9
47.5°	650.1	653.7	650.1	661.8	655.5	653.7	642.9	647.4
50°	526.6	522.1	526.6	530.2	531.1	525.7	520.3	523.0
52.5°	408.4	401.2	399.4	404.8	401.2	401.2	397.6	396.7
55°	287.6	290.3	285.8	290.3	288.5	285.8	283.1	286.7
57.5°	194.8	195.7	193.9	196.6	192.1	193.0	192.1	191.1
60°	126.2	122.6	122.6	125.3	120.8	120.8	119.9	119.9
62.5°	72.1	71.2	71.2	70.3	69.4	69.4	69.4	67.6
65°	37.0	36.1	35.2	35.2	35.2	35.2	34.3	34.3
67.5°	18.0	17.1	17.1	18.0	17.1	17.1	17.1	17.1
70°	10.8	10.8	9.9	10.8	9.9	9.9	9.9	9.9
72.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
75°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
77.5°	2.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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)