

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: P249550

Luminaire Tested: **LSR8B60D010 EC8B60850 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249550
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 EC8B60850 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6333.0 lumens
Efficiency: N/A
Efficacy: 106.4 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

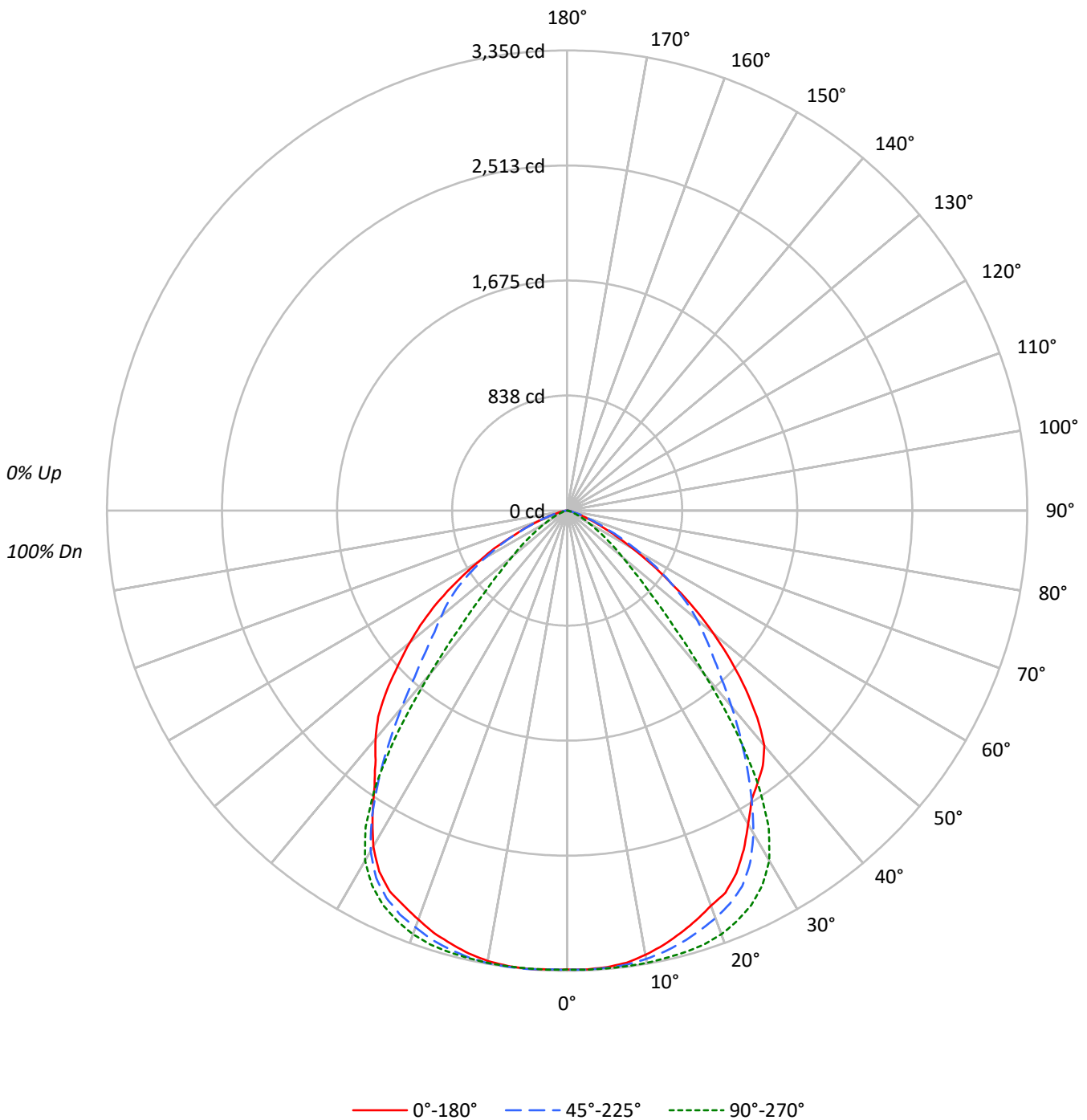
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	103036	103036	103036
5°	103263	103541	103653
10°	102829	104682	104235
15°	101691	106215	104210
20°	100467	107706	103943
25°	99163	107833	104046
30°	93817	104798	100521
35°	91016	91080	92029
40°	89887	62667	87359
45°	80093	37622	81187
50°	66596	25037	71758
55°	49950	17263	60842
60°	33846	11502	45903
65°	20416	7464	31535
70°	11324	4048	19402
75°	5135	1716	10044
80°	4457	1918	7014
85°	5095	2547	6970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.9	5.0
10°-20°	926.1	14.6
20°-30°	1405.6	22.2
30°-40°	1476.4	23.3
40°-50°	1106.9	17.5
50°-60°	710.2	11.2
60°-70°	303.8	4.8
70°-80°	71.8	1.1
80°-90°	13.4	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°	2650.6	41.9
0°-40°	4127.0	65.2
0°-60°	5944.1	93.9
0°-90°	6333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6333.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3341	3341	3341	3341	3341	
5°	3336	3341	3345	3350	3349	317
15°	3185	3252	3327	3306	3264	898
25°	2914	3017	3169	3112	3058	1331
35°	2418	2283	2420	2391	2445	1517
45°	1837	1501	863	1458	1862	1407
55°	929	929	321	968	1132	843
65°	280	330	102	425	432	299
75°	43	50	14	86	84	63
85°	14	9	7	14	20	15
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°	3341.4	3341.4	3341.4	3341.4	3341.4	3341.4	3341.4	3341.4	3341.4	3341.4	3341.4
2.5°	3343.2	3346.8	3345.0	3345.0	3343.2	3345.0	3345.0	3348.6	3348.6	3345.0	3343.2
5°	3336.0	3339.6	3339.6	3336.0	3336.0	3345.0	3339.6	3343.2	3343.2	3341.4	3341.4
7.5°	3319.9	3319.9	3327.1	3321.7	3321.7	3327.1	3325.3	3328.9	3332.5	3334.3	3334.3
10°	3284.0	3287.6	3289.4	3289.4	3291.2	3296.6	3300.2	3307.4	3310.9	3314.5	3316.3
12.5°	3239.2	3244.6	3246.4	3244.6	3250.0	3257.1	3266.1	3275.1	3280.5	3287.6	3293.0
15°	3185.4	3185.4	3189.0	3194.4	3198.0	3208.7	3217.7	3228.4	3242.8	3251.8	3260.7
17.5°	3126.2	3129.8	3135.2	3135.2	3142.3	3160.3	3165.7	3181.8	3198.0	3206.9	3224.9
20°	3061.6	3065.2	3070.6	3074.2	3083.1	3097.5	3108.3	3122.6	3140.5	3156.7	3174.6
22.5°	3011.4	3004.2	3007.8	3011.4	3020.4	3032.9	3045.5	3063.4	3081.3	3097.5	3115.4
25°	2914.5	2916.3	2921.7	2925.3	2936.1	2946.8	2961.2	2982.7	2998.8	3016.8	3036.5
27.5°	2783.6	2785.4	2794.4	2794.4	2803.3	2821.3	2830.2	2848.2	2869.7	2887.6	2911.0
30°	2634.8	2638.3	2638.3	2645.5	2650.9	2659.9	2668.8	2686.8	2697.5	2713.7	2746.0
32.5°	2498.5	2502.0	2500.2	2498.5	2493.1	2491.3	2489.5	2493.1	2496.7	2502.0	2514.6
35°	2417.8	2408.8	2401.6	2389.1	2374.7	2356.8	2340.6	2319.1	2299.3	2283.2	2265.3
37.5°	2340.6	2338.8	2328.1	2310.1	2281.4	2249.1	2211.5	2164.8	2118.2	2068.0	2019.6
40°	2233.0	2227.6	2218.6	2193.5	2161.2	2121.8	2071.6	2014.2	1938.8	1861.7	1782.8
42.5°	2050.0	2051.8	2041.1	2021.3	1990.9	1953.2	1901.2	1838.4	1757.7	1666.2	1564.0
45°	1836.6	1836.6	1833.0	1816.9	1795.4	1764.9	1725.4	1673.4	1594.5	1501.2	1391.8
47.5°	1614.2	1616.0	1610.6	1607.1	1598.1	1578.3	1549.6	1510.2	1454.6	1364.9	1255.5
50°	1388.2	1388.2	1397.2	1395.4	1395.4	1388.2	1375.7	1352.3	1303.9	1232.2	1130.0
52.5°	1162.2	1165.8	1171.2	1178.4	1187.3	1201.7	1187.3	1176.6	1146.1	1090.5	1002.6
55°	929.1	932.7	941.6	954.2	965.0	979.3	982.9	982.9	966.7	929.1	862.7
57.5°	730.0	724.6	731.8	742.5	756.9	771.2	782.0	794.6	792.8	767.6	713.8
60°	548.8	550.6	556.0	566.8	577.5	590.1	604.4	615.2	620.6	608.0	573.9
62.5°	400.0	400.0	407.1	417.9	423.3	441.2	450.2	455.6	460.9	459.1	437.6
65°	279.8	283.4	287.0	292.4	297.7	308.5	313.9	324.6	328.2	330.0	313.9
67.5°	197.3	191.9	195.5	199.1	204.5	211.7	222.4	222.4	227.8	227.8	217.0
70°	125.6	125.6	127.4	132.7	136.3	138.1	141.7	145.3	150.7	148.9	148.9
72.5°	84.3	82.5	84.3	86.1	87.9	93.3	93.3	95.1	98.7	100.5	93.3
75°	43.1	44.9	48.4	46.6	52.0	48.4	50.2	55.6	53.8	50.2	50.2
77.5°	35.9	35.9	35.9	34.1	37.7	37.7	35.9	39.5	37.7	37.7	35.9
80°	25.1	26.9	25.1	23.3	25.1	23.3	23.3	23.3	23.3	23.3	21.5
82.5°	19.7	16.1	17.9	16.1	17.9	17.9	16.1	14.4	14.4	16.1	14.4
85°	14.4	10.8	12.6	12.6	10.8	10.8	10.8	10.8	10.8	9.0	9.0
87.5°	9.0	5.4	5.4	5.4	7.2	7.2	7.2	5.4	7.2	7.2	3.6
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: P249550

CATALOG NUMBER: LSR8B60D010 EC8B60850 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3341.4	3341.4	3341.4	3341.4	3341.4	3341.4	3341.4	3341.4	3341.4	3341.4	3341.4
2.5°	3346.8	3345.0	3348.6	3346.8	3346.8	3345.0	3346.8	3345.0	3348.6	3341.4	3343.2
5°	3346.8	3343.2	3345.0	3346.8	3348.6	3345.0	3345.0	3345.0	3348.6	3345.0	3346.8
7.5°	3339.6	3337.8	3343.2	3346.8	3345.0	3343.2	3346.8	3345.0	3348.6	3346.8	3350.4
10°	3325.3	3327.1	3330.7	3336.0	3337.8	3339.6	3343.2	3343.2	3348.6	3341.4	3345.0
12.5°	3303.8	3310.9	3319.9	3323.5	3330.7	3330.7	3334.3	3336.0	3339.6	3337.8	3343.2
15°	3276.9	3285.8	3296.6	3305.6	3314.5	3319.9	3325.3	3327.1	3332.5	3327.1	3328.9
17.5°	3244.6	3255.3	3271.5	3282.2	3296.6	3302.0	3309.1	3312.7	3318.1	3314.5	3316.3
20°	3199.7	3212.3	3230.2	3246.4	3255.3	3267.9	3276.9	3282.2	3285.8	3282.2	3284.0
22.5°	3137.0	3154.9	3178.2	3190.8	3208.7	3219.5	3221.3	3233.8	3242.8	3233.8	3237.4
25°	3063.4	3081.3	3099.3	3126.2	3142.3	3154.9	3167.5	3169.3	3178.2	3176.4	3174.6
27.5°	2941.4	2964.8	2995.2	3016.8	3038.3	3058.0	3072.4	3076.0	3084.9	3081.3	3083.1
30°	2774.6	2799.8	2828.5	2862.5	2893.0	2912.7	2930.7	2943.2	2952.2	2946.8	2945.0
32.5°	2537.9	2563.0	2593.5	2627.6	2663.5	2692.1	2713.7	2729.8	2740.6	2737.0	2728.0
35°	2267.1	2274.2	2294.0	2320.9	2351.4	2381.9	2401.6	2419.5	2432.1	2435.7	2435.7
37.5°	1989.1	1965.8	1951.4	1951.4	1969.3	1981.9	1999.8	2010.6	2030.3	2037.5	2042.9
40°	1720.0	1666.2	1616.0	1578.3	1553.2	1551.4	1551.4	1556.8	1574.8	1598.1	1619.6
42.5°	1479.7	1393.6	1316.5	1246.5	1196.3	1167.6	1155.1	1156.9	1171.2	1192.7	1228.6
45°	1287.8	1180.2	1083.3	999.0	930.9	886.0	864.5	862.7	873.5	898.6	938.1
47.5°	1138.9	1024.1	914.7	817.9	744.3	695.9	670.8	663.6	670.8	694.1	740.7
50°	1015.2	896.8	783.8	683.3	604.4	554.2	530.9	521.9	530.9	550.6	597.2
52.5°	900.4	778.4	672.6	575.7	491.4	448.4	423.3	417.9	423.3	446.6	484.3
55°	767.6	663.6	559.6	462.7	389.2	346.2	326.4	321.1	326.4	348.0	387.4
57.5°	636.7	547.0	455.6	367.7	304.9	267.2	249.3	242.1	254.7	269.0	315.7
60°	514.7	443.0	365.9	288.8	236.8	202.7	188.3	186.5	190.1	208.1	240.3
62.5°	403.6	344.4	283.4	220.6	177.6	163.2	145.3	143.5	147.1	157.8	183.0
65°	290.6	252.9	206.3	161.4	127.4	107.6	100.5	102.3	105.8	113.0	136.3
67.5°	202.7	175.8	143.5	113.0	87.9	78.9	71.8	70.0	71.8	84.3	96.9
70°	136.3	120.2	96.9	86.1	61.0	48.4	50.2	44.9	52.0	52.0	62.8
72.5°	89.7	78.9	64.6	50.2	43.1	34.1	34.1	32.3	35.9	37.7	46.6
75°	46.6	35.9	35.9	25.1	17.9	9.0	16.1	14.4	12.6	14.4	17.9
77.5°	32.3	26.9	25.1	19.7	17.9	14.4	14.4	14.4	14.4	16.1	17.9
80°	19.7	19.7	14.4	12.6	10.8	9.0	10.8	10.8	10.8	10.8	12.6
82.5°	12.6	10.8	10.8	9.0	9.0	7.2	7.2	7.2	7.2	7.2	10.8
85°	10.8	7.2	7.2	5.4	7.2	12.6	5.4	7.2	7.2	7.2	5.4
87.5°	3.6	5.4	5.4	5.4	3.6	1.8	3.6	5.4	5.4	9.0	7.2
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: P249550

CATALOG NUMBER: LSR8B60D010 EC8B60850 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3341.4	3341.4	3341.4	3341.4	3341.4	3341.4	3341.4	3341.4	3341.4	3341.4	3341.4
2.5°	3346.8	3348.6	3348.6	3346.8	3346.8	3343.2	3350.4	3345.0	3346.8	3354.0	3348.6
5°	3350.4	3352.2	3352.2	3350.4	3350.4	3350.4	3352.2	3352.2	3350.4	3348.6	3352.2
7.5°	3357.6	3355.8	3355.8	3352.2	3352.2	3348.6	3352.2	3346.8	3350.4	3346.8	3352.2
10°	3348.6	3350.4	3348.6	3346.8	3346.8	3345.0	3345.0	3339.6	3341.4	3336.0	3339.6
12.5°	3343.2	3341.4	3341.4	3337.8	3334.3	3330.7	3328.9	3323.5	3323.5	3310.9	3316.3
15°	3328.9	3330.7	3325.3	3318.1	3314.5	3305.6	3302.0	3294.8	3287.6	3278.7	3280.5
17.5°	3316.3	3310.9	3303.8	3296.6	3282.2	3275.1	3267.9	3257.1	3253.5	3242.8	3239.2
20°	3278.7	3275.1	3266.1	3253.5	3244.6	3228.4	3221.3	3210.5	3201.5	3190.8	3185.4
22.5°	3230.2	3226.6	3215.9	3203.3	3189.0	3181.8	3174.6	3154.9	3145.9	3135.2	3133.4
25°	3169.3	3163.9	3153.1	3138.8	3131.6	3111.8	3104.7	3090.3	3086.7	3076.0	3074.2
27.5°	3076.0	3068.8	3056.2	3038.3	3025.7	3013.2	3006.0	2995.2	2991.7	2980.9	2979.1
30°	2936.1	2927.1	2902.0	2894.8	2873.3	2860.7	2860.7	2846.4	2848.2	2841.0	2841.0
32.5°	2715.5	2701.1	2681.4	2667.0	2652.7	2645.5	2645.5	2640.1	2643.7	2643.7	2647.3
35°	2423.1	2403.4	2392.6	2383.7	2383.7	2390.8	2412.4	2417.8	2428.5	2437.5	2444.7
37.5°	2048.2	2046.5	2059.0	2069.8	2096.7	2127.2	2164.8	2197.1	2227.6	2249.1	2270.6
40°	1642.9	1687.8	1723.6	1773.9	1815.1	1874.3	1942.4	1998.0	2050.0	2087.7	2127.2
42.5°	1282.4	1339.8	1415.1	1488.6	1562.2	1642.9	1732.6	1809.7	1877.9	1929.9	1971.1
45°	999.0	1077.9	1169.4	1262.7	1357.7	1458.2	1551.4	1630.4	1702.1	1755.9	1797.2
47.5°	805.3	891.4	995.4	1097.7	1205.3	1311.1	1415.1	1483.3	1542.5	1585.5	1623.2
50°	665.4	756.9	866.3	982.9	1090.5	1196.3	1286.0	1352.3	1400.8	1438.4	1461.7
52.5°	556.0	652.8	769.4	886.0	993.6	1090.5	1171.2	1221.4	1260.9	1287.8	1309.3
55°	459.1	552.4	661.8	771.2	877.1	968.5	1034.9	1072.6	1103.0	1119.2	1131.7
57.5°	374.9	460.9	561.4	661.8	753.3	828.6	880.7	918.3	932.7	945.2	943.4
60°	294.2	374.9	466.3	552.4	631.3	692.3	730.0	751.5	762.3	767.6	764.1
62.5°	231.4	304.9	374.9	450.2	507.6	559.6	595.5	595.5	600.8	602.6	608.0
65°	172.2	227.8	288.8	344.4	391.0	425.1	444.8	450.2	457.4	455.6	452.0
67.5°	127.4	168.6	213.4	254.7	287.0	308.5	322.8	335.4	333.6	330.0	328.2
70°	87.9	114.8	154.3	179.4	202.7	224.2	227.8	229.6	231.4	233.2	229.6
72.5°	61.0	80.7	102.3	123.8	138.1	147.1	156.1	157.8	157.8	157.8	156.1
75°	30.5	41.3	61.0	70.0	82.5	86.1	93.3	93.3	98.7	91.5	89.7
77.5°	26.9	32.3	43.1	50.2	55.6	61.0	62.8	68.2	66.4	62.8	64.6
80°	16.1	19.7	26.9	30.5	37.7	39.5	41.3	43.1	41.3	43.1	43.1
82.5°	12.6	14.4	17.9	17.9	23.3	23.3	25.1	25.1	26.9	26.9	26.9
85°	7.2	12.6	10.8	21.5	14.4	14.4	17.9	21.5	17.9	17.9	21.5
87.5°	7.2	7.2	5.4	7.2	7.2	7.2	9.0	10.8	10.8	12.6	10.8
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: P249550

CATALOG NUMBER: LSR8B60D010 EC8B60850 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3341.4	3341.4	3341.4	3341.4
2.5°	3346.8	3350.4	3345.0	3343.2
5°	3352.2	3352.2	3348.6	3348.6
7.5°	3352.2	3352.2	3346.8	3343.2
10°	3337.8	3337.8	3332.5	3328.9
12.5°	3310.9	3310.9	3309.1	3303.8
15°	3276.9	3276.9	3269.7	3264.3
17.5°	3230.2	3233.8	3224.9	3224.9
20°	3180.0	3178.2	3171.0	3167.5
22.5°	3128.0	3124.4	3122.6	3111.8
25°	3072.4	3068.8	3063.4	3058.0
27.5°	2977.3	2975.5	2970.1	2963.0
30°	2832.0	2830.2	2823.1	2823.1
32.5°	2643.7	2641.9	2634.8	2636.6
35°	2448.2	2455.4	2451.8	2444.7
37.5°	2285.0	2290.4	2294.0	2290.4
40°	2148.7	2164.8	2166.6	2170.2
42.5°	2003.4	2024.9	2032.1	2035.7
45°	1829.4	1849.2	1865.3	1861.7
47.5°	1651.9	1666.2	1680.6	1669.8
50°	1481.5	1490.4	1495.8	1495.8
52.5°	1320.1	1320.1	1318.3	1320.1
55°	1135.3	1135.3	1128.2	1131.7
57.5°	941.6	945.2	939.8	930.9
60°	762.3	753.3	749.7	744.3
62.5°	593.7	593.7	581.1	597.2
65°	444.8	439.4	434.0	432.2
67.5°	322.8	321.1	315.7	313.9
70°	227.8	220.6	218.8	215.2
72.5°	152.5	152.5	148.9	148.9
75°	93.3	84.3	82.5	84.3
77.5°	64.6	62.8	62.8	61.0
80°	43.1	41.3	44.9	39.5
82.5°	26.9	28.7	26.9	28.7
85°	17.9	21.5	19.7	19.7
87.5°	10.8	10.8	10.8	10.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)