

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: P249091

Luminaire Tested: **LSR8B60D010 EC8B60830 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249091
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 EC8B60830 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6080.0 lumens
Efficiency: N/A
Efficacy: 102.2 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

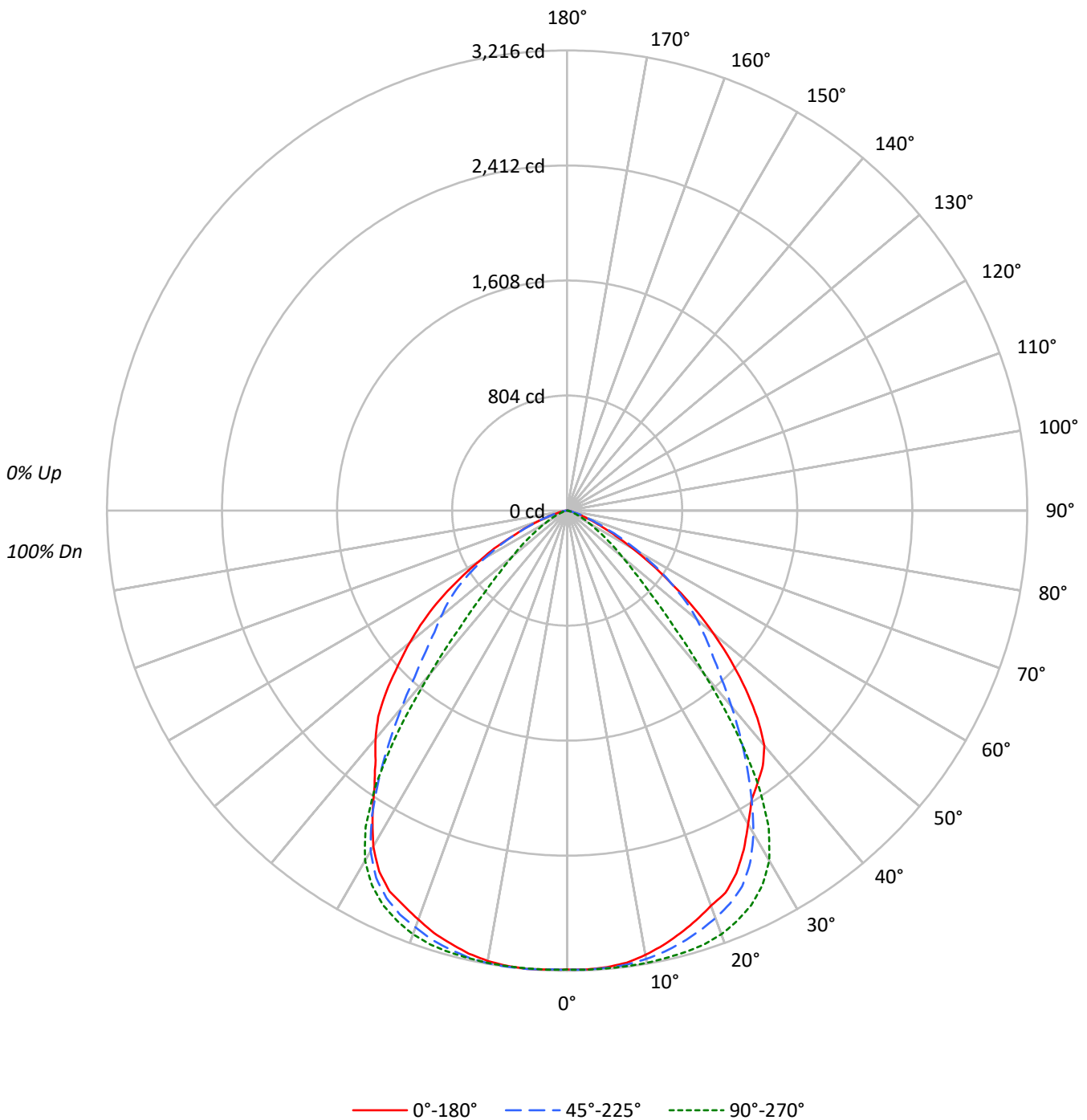
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	98920	98920	98920
5°	99137	99406	99511
10°	98721	100502	100070
15°	97627	101972	100047
20°	96454	103404	99788
25°	95203	103522	99891
30°	90067	100614	96505
35°	87380	87444	88351
40°	86296	60164	83869
45°	76892	36117	77943
50°	63938	24039	68894
55°	47950	16569	58412
60°	32495	11046	44071
65°	19598	7165	30280
70°	10864	3886	18627
75°	4921	1644	9639
80°	4280	1829	6730
85°	4883	2441	6722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.2	5.0
10°-20°	889.1	14.6
20°-30°	1349.5	22.2
30°-40°	1417.4	23.3
40°-50°	1062.7	17.5
50°-60°	681.8	11.2
60°-70°	291.7	4.8
70°-80°	68.9	1.1
80°-90°	12.8	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°	2544.8	41.9
0°-40°	3962.1	65.2
0°-60°	5706.6	93.9
0°-90°	6080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6080.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3208	3208	3208	3208	3208	
5°	3203	3208	3211	3216	3215	304
15°	3058	3122	3194	3174	3134	863
25°	2798	2896	3043	2988	2936	1278
35°	2321	2192	2323	2295	2347	1457
45°	1763	1441	828	1400	1787	1350
55°	892	892	308	930	1086	809
65°	269	317	98	408	415	287
75°	41	48	14	83	81	60
85°	14	9	7	14	19	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°	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9
2.5°	3209.7	3213.1	3211.4	3211.4	3209.7	3211.4	3211.4	3214.8	3214.8	3211.4	3209.7
5°	3202.7	3206.2	3206.2	3202.7	3202.7	3211.4	3206.2	3209.7	3209.7	3207.9	3207.9
7.5°	3187.3	3187.3	3194.2	3189.0	3189.0	3194.2	3192.4	3195.9	3199.3	3201.1	3201.1
10°	3152.8	3156.3	3158.0	3158.0	3159.7	3164.9	3168.3	3175.2	3178.6	3182.1	3183.8
12.5°	3109.8	3114.9	3116.7	3114.9	3120.1	3127.0	3135.6	3144.2	3149.4	3156.3	3161.5
15°	3058.1	3058.1	3061.6	3066.7	3070.2	3080.5	3089.1	3099.4	3113.2	3121.9	3130.4
17.5°	3001.3	3004.8	3009.9	3009.9	3016.8	3034.0	3039.2	3054.7	3070.2	3078.8	3096.0
20°	2939.3	2942.7	2947.9	2951.4	2960.0	2973.8	2984.1	2997.9	3015.1	3030.6	3047.8
22.5°	2891.1	2884.2	2887.6	2891.1	2899.7	2911.8	2923.8	2941.0	2958.3	2973.8	2991.0
25°	2798.1	2799.8	2805.0	2808.4	2818.8	2829.1	2842.9	2863.5	2879.0	2896.3	2915.2
27.5°	2672.4	2674.2	2682.7	2682.7	2691.3	2708.6	2717.2	2734.4	2755.1	2772.3	2794.7
30°	2529.5	2532.9	2532.9	2539.8	2545.0	2553.6	2562.2	2579.4	2589.8	2605.3	2636.3
32.5°	2398.6	2402.1	2400.3	2398.6	2393.5	2391.7	2390.0	2393.5	2396.9	2402.1	2414.1
35°	2321.2	2312.5	2305.7	2293.6	2279.8	2262.6	2247.1	2226.5	2207.5	2192.0	2174.8
37.5°	2247.1	2245.4	2235.0	2217.8	2190.3	2159.3	2123.1	2078.4	2033.6	1985.4	1938.9
40°	2143.8	2138.6	2130.0	2105.9	2074.9	2037.0	1988.8	1933.7	1861.4	1787.3	1711.6
42.5°	1968.1	1969.9	1959.5	1940.6	1911.3	1875.2	1825.2	1765.0	1687.5	1599.6	1501.5
45°	1763.2	1763.2	1759.8	1744.3	1723.6	1694.4	1656.5	1606.6	1530.8	1441.2	1336.2
47.5°	1549.7	1551.4	1546.3	1542.8	1534.2	1515.3	1487.7	1449.9	1396.5	1310.4	1205.3
50°	1332.8	1332.8	1341.4	1339.6	1339.6	1332.8	1320.7	1298.3	1251.8	1183.0	1084.8
52.5°	1115.8	1119.3	1124.4	1131.3	1139.9	1153.7	1139.9	1129.6	1100.3	1046.9	962.6
55°	891.9	895.4	904.0	916.0	926.4	940.2	943.6	943.6	928.1	891.9	828.2
57.5°	700.8	695.7	702.6	712.9	726.7	740.4	750.8	762.8	761.1	737.0	685.3
60°	526.9	528.6	533.8	544.1	554.5	566.5	580.3	590.6	595.8	583.7	551.0
62.5°	384.0	384.0	390.9	401.2	406.4	423.6	432.2	437.4	442.5	440.8	420.1
65°	268.6	272.1	275.5	280.7	285.8	296.2	301.3	311.7	315.1	316.8	301.3
67.5°	189.4	184.2	187.7	191.1	196.3	203.2	213.5	213.5	218.7	218.7	208.3
70°	120.5	120.5	122.3	127.4	130.9	132.6	136.0	139.5	144.6	142.9	142.9
72.5°	80.9	79.2	80.9	82.7	84.4	89.5	89.5	91.3	94.7	96.4	89.5
75°	41.3	43.1	46.5	44.8	49.9	46.5	48.2	53.4	51.7	48.2	48.2
77.5°	34.4	34.4	34.4	32.7	36.2	36.2	34.4	37.9	36.2	36.2	34.4
80°	24.1	25.8	24.1	22.4	24.1	22.4	22.4	22.4	22.4	22.4	20.6
82.5°	19.0	15.5	17.2	15.5	17.2	17.2	15.5	13.8	13.8	15.5	13.8
85°	13.8	10.3	12.1	12.1	10.3	10.3	10.3	10.3	10.3	8.6	8.6
87.5°	8.6	5.2	5.2	5.2	6.9	6.9	6.9	5.2	6.9	6.9	3.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9
2.5°	3213.1	3211.4	3214.8	3213.1	3213.1	3211.4	3213.1	3211.4	3214.8	3207.9	3209.7
5°	3213.1	3209.7	3211.4	3213.1	3214.8	3211.4	3211.4	3211.4	3214.8	3211.4	3213.1
7.5°	3206.2	3204.5	3209.7	3213.1	3211.4	3209.7	3213.1	3211.4	3214.8	3213.1	3216.5
10°	3192.4	3194.2	3197.6	3202.7	3204.5	3206.2	3209.7	3209.7	3214.8	3207.9	3211.4
12.5°	3171.8	3178.6	3187.3	3190.7	3197.6	3197.6	3201.1	3202.7	3206.2	3204.5	3209.7
15°	3146.0	3154.5	3164.9	3173.5	3182.1	3187.3	3192.4	3194.2	3199.3	3194.2	3195.9
17.5°	3114.9	3125.3	3140.8	3151.1	3164.9	3170.1	3176.9	3180.4	3185.6	3182.1	3183.8
20°	3071.9	3084.0	3101.2	3116.7	3125.3	3137.3	3146.0	3151.1	3154.5	3151.1	3152.8
22.5°	3011.6	3028.9	3051.2	3063.3	3080.5	3090.8	3092.6	3104.6	3113.2	3104.6	3108.1
25°	2941.0	2958.3	2975.5	3001.3	3016.8	3028.9	3040.9	3042.6	3051.2	3049.5	3047.8
27.5°	2823.9	2846.3	2875.6	2896.3	2916.9	2935.9	2949.7	2953.1	2961.7	2958.3	2960.0
30°	2663.8	2687.9	2715.5	2748.2	2777.5	2796.4	2813.6	2825.7	2834.3	2829.1	2827.4
32.5°	2436.5	2460.6	2489.9	2522.6	2557.1	2584.6	2605.3	2620.8	2631.1	2627.6	2619.0
35°	2176.5	2183.4	2202.3	2228.2	2257.4	2286.7	2305.7	2322.9	2334.9	2338.4	2338.4
37.5°	1909.6	1887.2	1873.5	1873.5	1890.7	1902.7	1919.9	1930.3	1949.2	1956.1	1961.3
40°	1651.3	1599.6	1551.4	1515.3	1491.2	1489.5	1489.5	1494.6	1511.8	1534.2	1554.9
42.5°	1420.6	1337.9	1263.9	1196.7	1148.5	1121.0	1108.9	1110.7	1124.4	1145.1	1179.5
45°	1236.3	1133.0	1040.0	959.1	893.7	850.6	830.0	828.2	838.6	862.7	900.6
47.5°	1093.4	983.2	878.2	785.2	714.6	668.1	644.0	637.1	644.0	666.4	711.2
50°	974.6	861.0	752.5	656.0	580.3	532.1	509.7	501.1	509.7	528.6	573.4
52.5°	864.4	747.3	645.7	552.7	471.8	430.5	406.4	401.2	406.4	428.7	464.9
55°	737.0	637.1	537.2	444.2	373.7	332.3	313.4	308.2	313.4	334.1	371.9
57.5°	611.3	525.2	437.4	353.0	292.7	256.5	239.4	232.4	244.5	258.3	303.1
60°	494.2	425.3	351.3	277.2	227.3	194.6	180.8	179.1	182.5	199.7	230.7
62.5°	387.4	330.6	272.1	211.8	170.5	156.7	139.5	137.8	141.2	151.5	175.6
65°	279.0	242.8	198.0	155.0	122.3	103.3	96.4	98.2	101.6	108.5	130.9
67.5°	194.6	168.7	137.8	108.5	84.4	75.8	68.9	67.2	68.9	80.9	93.0
70°	130.9	115.4	93.0	82.7	58.6	46.5	48.2	43.1	49.9	49.9	60.3
72.5°	86.1	75.8	62.0	48.2	41.3	32.7	32.7	31.0	34.4	36.2	44.8
75°	44.8	34.4	34.4	24.1	17.2	8.6	15.5	13.8	12.1	13.8	17.2
77.5°	31.0	25.8	24.1	19.0	17.2	13.8	13.8	13.8	13.8	15.5	17.2
80°	19.0	19.0	13.8	12.1	10.3	8.6	10.3	10.3	10.3	10.3	12.1
82.5°	12.1	10.3	10.3	8.6	8.6	6.9	6.9	6.9	6.9	6.9	10.3
85°	10.3	6.9	6.9	5.2	6.9	12.1	5.2	6.9	6.9	6.9	5.2
87.5°	3.5	5.2	5.2	5.2	3.5	1.7	3.5	5.2	5.2	8.6	6.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9	3207.9
2.5°	3213.1	3214.8	3214.8	3213.1	3213.1	3209.7	3216.5	3211.4	3213.1	3220.0	3214.8
5°	3216.5	3218.3	3218.3	3216.5	3216.5	3216.5	3218.3	3218.3	3216.5	3214.8	3218.3
7.5°	3223.4	3221.7	3221.7	3218.3	3218.3	3214.8	3218.3	3213.1	3216.5	3213.1	3218.3
10°	3214.8	3216.5	3214.8	3213.1	3213.1	3211.4	3211.4	3206.2	3207.9	3202.7	3206.2
12.5°	3209.7	3207.9	3207.9	3204.5	3201.1	3197.6	3195.9	3190.7	3190.7	3178.6	3183.8
15°	3195.9	3197.6	3192.4	3185.6	3182.1	3173.5	3170.1	3163.1	3156.3	3147.7	3149.4
17.5°	3183.8	3178.6	3171.8	3164.9	3151.1	3144.2	3137.3	3127.0	3123.5	3113.2	3109.8
20°	3147.7	3144.2	3135.6	3123.5	3114.9	3099.4	3092.6	3082.2	3073.6	3063.3	3058.1
22.5°	3101.2	3097.7	3087.4	3075.3	3061.6	3054.7	3047.8	3028.9	3020.2	3009.9	3008.2
25°	3042.6	3037.5	3027.1	3013.4	3006.5	2987.5	2980.6	2966.8	2963.4	2953.1	2951.4
27.5°	2953.1	2946.2	2934.2	2916.9	2904.9	2892.8	2885.9	2875.6	2872.2	2861.8	2860.1
30°	2818.8	2810.2	2786.1	2779.2	2758.5	2746.5	2746.5	2732.7	2734.4	2727.5	2727.5
32.5°	2607.0	2593.2	2574.3	2560.5	2546.7	2539.8	2539.8	2534.7	2538.1	2538.1	2541.6
35°	2326.3	2307.4	2297.0	2288.4	2288.4	2295.3	2316.0	2321.2	2331.5	2340.1	2347.0
37.5°	1966.4	1964.7	1976.8	1987.1	2012.9	2042.2	2078.4	2109.4	2138.6	2159.3	2179.9
40°	1577.3	1620.3	1654.8	1703.0	1742.6	1799.4	1864.8	1918.2	1968.1	2004.3	2042.2
42.5°	1231.2	1286.3	1358.6	1429.2	1499.8	1577.3	1663.4	1737.4	1802.9	1852.8	1892.4
45°	959.1	1034.9	1122.7	1212.2	1303.5	1399.9	1489.5	1565.2	1634.1	1685.8	1725.4
47.5°	773.1	855.8	955.7	1053.8	1157.1	1258.7	1358.6	1424.0	1480.8	1522.2	1558.4
50°	638.8	726.7	831.7	943.6	1046.9	1148.5	1234.6	1298.3	1344.8	1381.0	1403.4
52.5°	533.8	626.8	738.7	850.6	953.9	1046.9	1124.4	1172.6	1210.5	1236.3	1257.0
55°	440.8	530.4	635.4	740.4	842.0	929.8	993.5	1029.7	1059.0	1074.5	1086.5
57.5°	359.9	442.5	539.0	635.4	723.2	795.5	845.5	881.6	895.4	907.5	905.7
60°	282.4	359.9	447.7	530.4	606.1	664.6	700.8	721.5	731.8	737.0	733.5
62.5°	222.1	292.7	359.9	432.2	487.3	537.2	571.7	571.7	576.8	578.6	583.7
65°	165.3	218.7	277.2	330.6	375.4	408.1	427.1	432.2	439.1	437.4	433.9
67.5°	122.3	161.9	204.9	244.5	275.5	296.2	309.9	322.0	320.3	316.8	315.1
70°	84.4	110.2	148.1	172.2	194.6	215.3	218.7	220.4	222.1	223.9	220.4
72.5°	58.6	77.5	98.2	118.8	132.6	141.2	149.8	151.5	151.5	151.5	149.8
75°	29.3	39.6	58.6	67.2	79.2	82.7	89.5	89.5	94.7	87.8	86.1
77.5°	25.8	31.0	41.3	48.2	53.4	58.6	60.3	65.4	63.7	60.3	62.0
80°	15.5	19.0	25.8	29.3	36.2	37.9	39.6	41.3	39.6	41.3	41.3
82.5°	12.1	13.8	17.2	17.2	22.4	22.4	24.1	24.1	25.8	25.8	25.8
85°	6.9	12.1	10.3	20.6	13.8	13.8	17.2	20.6	17.2	17.2	20.6
87.5°	6.9	6.9	5.2	6.9	6.9	6.9	8.6	10.3	10.3	12.1	10.3
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: P249091

CATALOG NUMBER: LSR8B60D010 EC8B60830 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3207.9	3207.9	3207.9	3207.9
2.5°	3213.1	3216.5	3211.4	3209.7
5°	3218.3	3218.3	3214.8	3214.8
7.5°	3218.3	3218.3	3213.1	3209.7
10°	3204.5	3204.5	3199.3	3195.9
12.5°	3178.6	3178.6	3176.9	3171.8
15°	3146.0	3146.0	3139.0	3133.9
17.5°	3101.2	3104.6	3096.0	3096.0
20°	3053.0	3051.2	3044.4	3040.9
22.5°	3003.0	2999.6	2997.9	2987.5
25°	2949.7	2946.2	2941.0	2935.9
27.5°	2858.4	2856.7	2851.5	2844.6
30°	2718.9	2717.2	2710.3	2710.3
32.5°	2538.1	2536.4	2529.5	2531.2
35°	2350.4	2357.3	2353.9	2347.0
37.5°	2193.7	2198.9	2202.3	2198.9
40°	2062.9	2078.4	2080.1	2083.5
42.5°	1923.4	1944.0	1950.9	1954.4
45°	1756.3	1775.3	1790.8	1787.3
47.5°	1585.9	1599.6	1613.4	1603.1
50°	1422.3	1430.9	1436.1	1436.1
52.5°	1267.3	1267.3	1265.6	1267.3
55°	1090.0	1090.0	1083.1	1086.5
57.5°	904.0	907.5	902.3	893.7
60°	731.8	723.2	719.8	714.6
62.5°	570.0	570.0	557.9	573.4
65°	427.1	421.9	416.7	415.0
67.5°	309.9	308.2	303.1	301.3
70°	218.7	211.8	210.1	206.6
72.5°	146.4	146.4	142.9	142.9
75°	89.5	80.9	79.2	80.9
77.5°	62.0	60.3	60.3	58.6
80°	41.3	39.6	43.1	37.9
82.5°	25.8	27.6	25.8	27.6
85°	17.2	20.6	19.0	19.0
87.5°	10.3	10.3	10.3	10.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)