

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: P249615

Luminaire Tested: **LSR8B80D010 EC8B809730 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249615
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: LSR8B80D010 EC8B809730 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6182.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

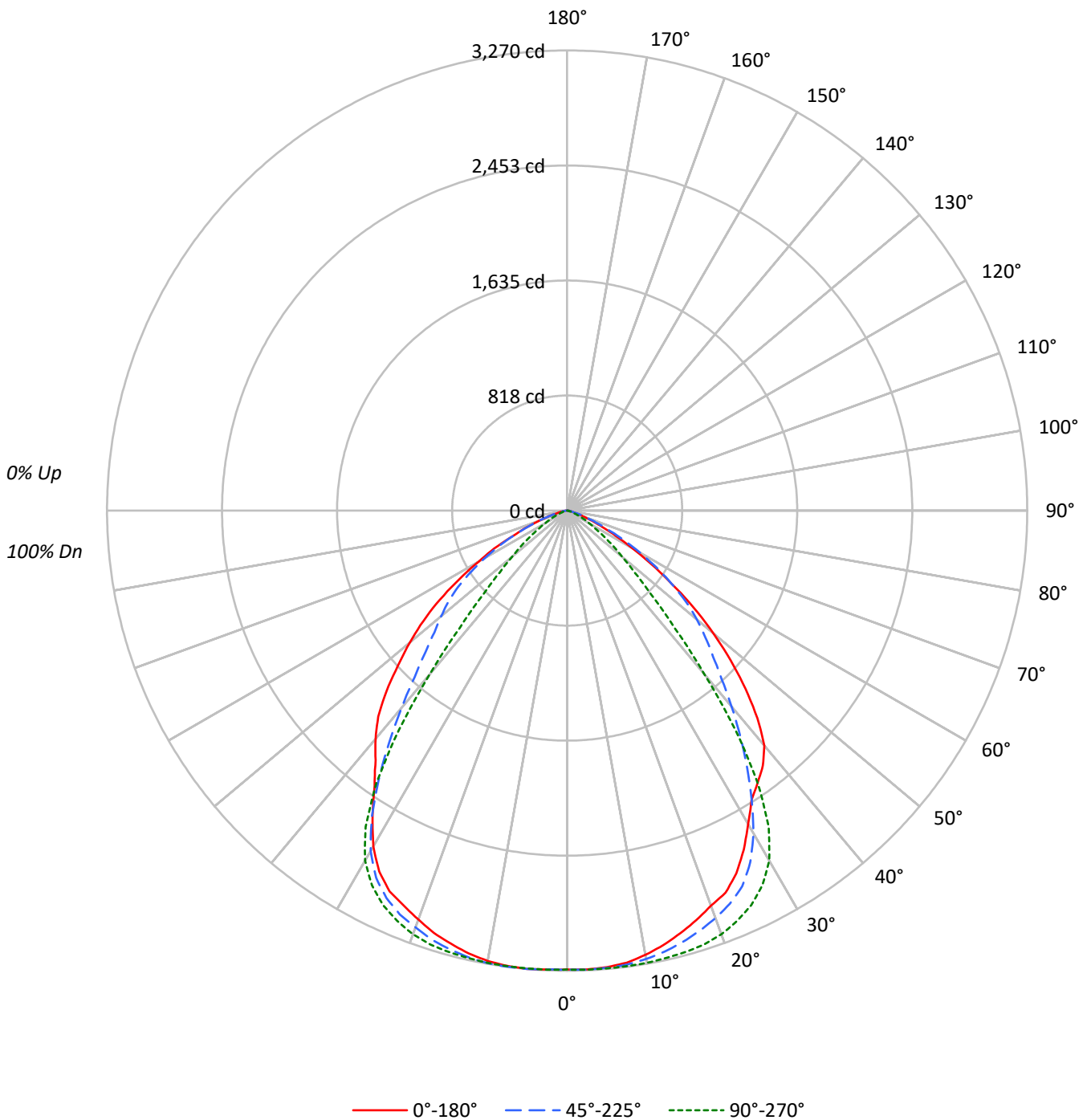
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90						
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79						
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70						
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62						
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55						
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50						
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45						
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41						
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37						
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34						

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.3	5.0
10°-20°	904.0	14.6
20°-30°	1372.1	22.2
30°-40°	1441.2	23.3
40°-50°	1080.5	17.5
50°-60°	693.3	11.2
60°-70°	296.6	4.8
70°-80°	70.1	1.1
80°-90°	13.0	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°	2587.4	41.9
0°-40°	4028.6	65.2
0°-60°	5802.3	93.9
0°-90°	6182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6182.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3262	3262	3262	3262	3262	
5°	3256	3262	3265	3270	3269	309
15°	3109	3174	3248	3227	3186	877
25°	2845	2945	3094	3038	2985	1300
35°	2360	2229	2362	2334	2386	1481
45°	1793	1465	842	1423	1817	1373
55°	907	907	313	945	1105	823
65°	273	322	100	415	422	292
75°	42	49	14	84	82	61
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°	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7
2.5°	3263.5	3267.0	3265.3	3265.3	3263.5	3265.3	3265.3	3268.8	3268.8	3265.3	3263.5
5°	3256.5	3260.0	3260.0	3256.5	3256.5	3265.3	3260.0	3263.5	3263.5	3261.7	3261.7
7.5°	3240.8	3240.8	3247.7	3242.5	3242.5	3247.7	3246.0	3249.5	3253.0	3254.8	3254.8
10°	3205.7	3209.2	3211.0	3211.0	3212.7	3218.0	3221.5	3228.5	3232.0	3235.5	3237.2
12.5°	3162.0	3167.2	3169.0	3167.2	3172.5	3179.5	3188.2	3197.0	3202.2	3209.2	3214.5
15°	3109.4	3109.4	3112.9	3118.2	3121.7	3132.2	3140.9	3151.4	3165.4	3174.2	3183.0
17.5°	3051.7	3055.2	3060.4	3060.4	3067.4	3084.9	3090.2	3105.9	3121.7	3130.4	3148.0
20°	2988.6	2992.1	2997.4	3000.9	3009.6	3023.6	3034.1	3048.1	3065.7	3081.4	3098.9
22.5°	2939.6	2932.6	2936.1	2939.6	2948.4	2960.6	2972.9	2990.4	3007.9	3023.6	3041.2
25°	2845.0	2846.8	2852.1	2855.5	2866.1	2876.6	2890.6	2911.6	2927.3	2944.9	2964.1
27.5°	2717.3	2719.0	2727.8	2727.8	2736.5	2754.0	2762.8	2780.3	2801.3	2818.8	2841.6
30°	2571.9	2575.4	2575.4	2582.4	2587.7	2596.4	2605.2	2622.7	2633.2	2649.0	2680.5
32.5°	2438.9	2442.4	2440.6	2438.9	2433.6	2431.9	2430.1	2433.6	2437.1	2442.4	2454.6
35°	2360.1	2351.3	2344.3	2332.1	2318.1	2300.6	2284.8	2263.8	2244.5	2228.8	2211.3
37.5°	2284.8	2283.0	2272.5	2255.0	2227.0	2195.5	2158.8	2113.2	2067.7	2018.7	1971.4
40°	2179.8	2174.5	2165.7	2141.2	2109.7	2071.2	2022.2	1966.2	1892.6	1817.3	1740.3
42.5°	2001.2	2002.9	1992.4	1973.1	1943.4	1906.6	1855.8	1794.6	1715.8	1626.5	1526.7
45°	1792.8	1792.8	1789.3	1773.5	1752.6	1722.8	1684.3	1633.5	1556.5	1465.4	1358.6
47.5°	1575.7	1577.5	1572.2	1568.7	1560.0	1540.7	1512.7	1474.2	1419.9	1332.3	1225.5
50°	1355.1	1355.1	1363.9	1362.1	1362.1	1355.1	1342.9	1320.1	1272.8	1202.8	1103.0
52.5°	1134.5	1138.0	1143.3	1150.3	1159.0	1173.0	1159.0	1148.5	1118.8	1064.5	978.7
55°	906.9	910.4	919.2	931.4	942.0	956.0	959.4	959.4	943.7	906.9	842.1
57.5°	712.6	707.3	714.3	724.8	738.8	752.9	763.4	775.6	773.9	749.3	696.8
60°	535.7	537.5	542.7	553.3	563.8	576.0	590.0	600.5	605.8	593.5	560.3
62.5°	390.4	390.4	397.4	407.9	413.2	430.7	439.4	444.7	449.9	448.2	427.2
65°	273.1	276.6	280.1	285.4	290.6	301.1	306.4	316.9	320.4	322.2	306.4
67.5°	192.6	187.3	190.8	194.3	199.6	206.6	217.1	217.1	222.3	222.3	211.8
70°	122.6	122.6	124.3	129.5	133.1	134.8	138.3	141.8	147.1	145.3	145.3
72.5°	82.3	80.5	82.3	84.1	85.8	91.0	91.0	92.8	96.3	98.1	91.0
75°	42.0	43.8	47.3	45.5	50.8	47.3	49.0	54.3	52.5	49.0	49.0
77.5°	35.0	35.0	35.0	33.3	36.8	36.8	35.0	38.5	36.8	36.8	35.0
80°	24.5	26.3	24.5	22.7	24.5	22.7	22.7	22.7	22.7	22.7	21.0
82.5°	19.3	15.8	17.5	15.8	17.5	17.5	15.8	14.0	14.0	15.8	14.0
85°	14.0	10.5	12.3	12.3	10.5	10.5	10.5	10.5	10.5	8.7	8.7
87.5°	8.7	5.3	5.3	5.3	7.0	7.0	7.0	5.3	7.0	7.0	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



TEST NUMBER: P249615

CATALOG NUMBER: LSR8B80D010 EC8B809730 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7
2.5°	3267.0	3265.3	3268.8	3267.0	3267.0	3265.3	3267.0	3265.3	3268.8	3261.7	3263.5
5°	3267.0	3263.5	3265.3	3267.0	3268.8	3265.3	3265.3	3265.3	3268.8	3265.3	3267.0
7.5°	3260.0	3258.2	3263.5	3267.0	3265.3	3263.5	3267.0	3265.3	3268.8	3267.0	3270.5
10°	3246.0	3247.7	3251.2	3256.5	3258.2	3260.0	3263.5	3263.5	3268.8	3261.7	3265.3
12.5°	3225.0	3232.0	3240.8	3244.2	3251.2	3251.2	3254.8	3256.5	3260.0	3258.2	3263.5
15°	3198.7	3207.5	3218.0	3226.7	3235.5	3240.8	3246.0	3247.7	3253.0	3247.7	3249.5
17.5°	3167.2	3177.7	3193.5	3204.0	3218.0	3223.2	3230.2	3233.7	3239.0	3235.5	3237.2
20°	3123.4	3135.7	3153.2	3169.0	3177.7	3189.9	3198.7	3204.0	3207.5	3204.0	3205.7
22.5°	3062.2	3079.7	3102.4	3114.7	3132.2	3142.7	3144.5	3156.7	3165.4	3156.7	3160.2
25°	2990.4	3007.9	3025.4	3051.7	3067.4	3079.7	3091.9	3093.7	3102.4	3100.7	3098.9
27.5°	2871.3	2894.1	2923.8	2944.9	2965.9	2985.1	2999.1	3002.6	3011.4	3007.9	3009.6
30°	2708.5	2733.0	2761.0	2794.3	2824.1	2843.3	2860.8	2873.1	2881.8	2876.6	2874.8
32.5°	2477.4	2501.9	2531.7	2564.9	2600.0	2627.9	2649.0	2664.7	2675.2	2671.7	2663.0
35°	2213.0	2220.0	2239.3	2265.6	2295.3	2325.1	2344.3	2361.8	2374.1	2377.6	2377.6
37.5°	1941.6	1918.9	1904.9	1904.9	1922.4	1934.6	1952.1	1962.6	1981.9	1988.9	1994.2
40°	1679.0	1626.5	1577.5	1540.7	1516.2	1514.5	1514.5	1519.7	1537.2	1560.0	1581.0
42.5°	1444.4	1360.4	1285.1	1216.8	1167.8	1139.8	1127.5	1129.3	1143.3	1164.3	1199.3
45°	1257.1	1152.0	1057.5	975.2	908.7	864.9	843.9	842.1	852.6	877.1	915.7
47.5°	1111.8	999.7	892.9	798.4	726.6	679.3	654.8	647.8	654.8	677.5	723.1
50°	991.0	875.4	765.1	667.1	590.0	541.0	518.2	509.5	518.2	537.5	583.0
52.5°	878.9	759.8	656.6	562.0	479.7	437.7	413.2	407.9	413.2	435.9	472.7
55°	749.3	647.8	546.2	451.7	379.9	337.9	318.6	313.4	318.6	339.7	378.2
57.5°	621.6	534.0	444.7	358.9	297.6	260.8	243.4	236.3	248.6	262.6	308.1
60°	502.5	432.5	357.2	281.9	231.1	197.8	183.8	182.1	185.6	203.1	234.6
62.5°	393.9	336.2	276.6	215.4	173.3	159.3	141.8	140.1	143.6	154.1	178.6
65°	283.6	246.9	201.3	157.6	124.3	105.0	98.1	99.8	103.3	110.3	133.1
67.5°	197.8	171.6	140.1	110.3	85.8	77.0	70.0	68.3	70.0	82.3	94.5
70°	133.1	117.3	94.5	84.1	59.5	47.3	49.0	43.8	50.8	50.8	61.3
72.5°	87.5	77.0	63.0	49.0	42.0	33.3	33.3	31.5	35.0	36.8	45.5
75°	45.5	35.0	35.0	24.5	17.5	8.7	15.8	14.0	12.3	14.0	17.5
77.5°	31.5	26.3	24.5	19.3	17.5	14.0	14.0	14.0	14.0	15.8	17.5
80°	19.3	19.3	14.0	12.3	10.5	8.7	10.5	10.5	10.5	10.5	12.3
82.5°	12.3	10.5	10.5	8.7	8.7	7.0	7.0	7.0	7.0	7.0	10.5
85°	10.5	7.0	7.0	5.3	7.0	12.3	5.3	7.0	7.0	7.0	5.3
87.5°	3.5	5.3	5.3	5.3	3.5	1.8	3.5	5.3	5.3	8.7	7.0
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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CATALOG NUMBER: LSR8B80D010 EC8B809730 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7
2.5°	3267.0	3268.8	3268.8	3267.0	3267.0	3263.5	3270.5	3265.3	3267.0	3274.0	3268.8
5°	3270.5	3272.2	3272.2	3270.5	3270.5	3270.5	3272.2	3272.2	3270.5	3268.8	3272.2
7.5°	3277.5	3275.8	3275.8	3272.2	3272.2	3268.8	3272.2	3267.0	3270.5	3267.0	3272.2
10°	3268.8	3270.5	3268.8	3267.0	3267.0	3265.3	3265.3	3260.0	3261.7	3256.5	3260.0
12.5°	3263.5	3261.7	3261.7	3258.2	3254.8	3251.2	3249.5	3244.2	3244.2	3232.0	3237.2
15°	3249.5	3251.2	3246.0	3239.0	3235.5	3226.7	3223.2	3216.2	3209.2	3200.5	3202.2
17.5°	3237.2	3232.0	3225.0	3218.0	3204.0	3197.0	3189.9	3179.5	3175.9	3165.4	3162.0
20°	3200.5	3197.0	3188.2	3175.9	3167.2	3151.4	3144.5	3134.0	3125.2	3114.7	3109.4
22.5°	3153.2	3149.7	3139.2	3126.9	3112.9	3105.9	3098.9	3079.7	3070.9	3060.4	3058.6
25°	3093.7	3088.4	3077.9	3063.9	3056.9	3037.7	3030.6	3016.6	3013.1	3002.6	3000.9
27.5°	3002.6	2995.6	2983.4	2965.9	2953.6	2941.3	2934.4	2923.8	2920.4	2909.8	2908.1
30°	2866.1	2857.3	2832.8	2825.8	2804.8	2792.5	2792.5	2778.5	2780.3	2773.3	2773.3
32.5°	2650.7	2636.7	2617.4	2603.4	2589.4	2582.4	2582.4	2577.2	2580.7	2580.7	2584.2
35°	2365.3	2346.1	2335.6	2326.8	2326.8	2333.8	2354.8	2360.1	2370.6	2379.3	2386.4
37.5°	1999.4	1997.7	2009.9	2020.4	2046.7	2076.5	2113.2	2144.8	2174.5	2195.5	2216.5
40°	1603.7	1647.5	1682.5	1731.6	1771.8	1829.6	1896.1	1950.4	2001.2	2038.0	2076.5
42.5°	1251.8	1307.8	1381.4	1453.2	1525.0	1603.7	1691.3	1766.6	1833.1	1883.9	1924.1
45°	975.2	1052.2	1141.5	1232.6	1325.4	1423.4	1514.5	1591.5	1661.5	1714.0	1754.3
47.5°	786.1	870.2	971.7	1071.5	1176.5	1279.8	1381.4	1447.9	1505.7	1547.7	1584.5
50°	649.5	738.8	845.6	959.4	1064.5	1167.8	1255.3	1320.1	1367.4	1404.1	1426.9
52.5°	542.7	637.3	751.1	864.9	969.9	1064.5	1143.3	1192.3	1230.8	1257.1	1278.1
55°	448.2	539.3	646.1	752.9	856.1	945.4	1010.2	1047.0	1076.7	1092.5	1104.7
57.5°	365.9	449.9	548.0	646.1	735.3	808.9	859.7	896.4	910.4	922.7	920.9
60°	287.2	365.9	455.2	539.3	616.3	675.8	712.6	733.6	744.1	749.3	745.8
62.5°	225.8	297.6	365.9	439.4	495.5	546.2	581.3	581.3	586.5	588.3	593.5
65°	168.1	222.3	281.9	336.2	381.7	414.9	434.2	439.4	446.5	444.7	441.2
67.5°	124.3	164.6	208.3	248.6	280.1	301.1	315.1	327.4	325.7	322.2	320.4
70°	85.8	112.1	150.6	175.1	197.8	218.9	222.3	224.1	225.8	227.6	224.1
72.5°	59.5	78.8	99.8	120.8	134.8	143.6	152.3	154.1	154.1	154.1	152.3
75°	29.8	40.3	59.5	68.3	80.5	84.1	91.0	91.0	96.3	89.3	87.5
77.5°	26.3	31.5	42.0	49.0	54.3	59.5	61.3	66.5	64.8	61.3	63.0
80°	15.8	19.3	26.3	29.8	36.8	38.5	40.3	42.0	40.3	42.0	42.0
82.5°	12.3	14.0	17.5	17.5	22.7	22.7	24.5	24.5	26.3	26.3	26.3
85°	7.0	12.3	10.5	21.0	14.0	14.0	17.5	21.0	17.5	17.5	21.0
87.5°	7.0	7.0	5.3	7.0	7.0	7.0	8.7	10.5	10.5	12.3	10.5
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: P249615

CATALOG NUMBER: LSR8B80D010 EC8B809730 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3261.7	3261.7	3261.7	3261.7
2.5°	3267.0	3270.5	3265.3	3263.5
5°	3272.2	3272.2	3268.8	3268.8
7.5°	3272.2	3272.2	3267.0	3263.5
10°	3258.2	3258.2	3253.0	3249.5
12.5°	3232.0	3232.0	3230.2	3225.0
15°	3198.7	3198.7	3191.7	3186.5
17.5°	3153.2	3156.7	3148.0	3148.0
20°	3104.2	3102.4	3095.4	3091.9
22.5°	3053.4	3049.9	3048.1	3037.7
25°	2999.1	2995.6	2990.4	2985.1
27.5°	2906.3	2904.6	2899.3	2892.3
30°	2764.5	2762.8	2755.8	2755.8
32.5°	2580.7	2578.9	2571.9	2573.7
35°	2389.8	2396.9	2393.3	2386.4
37.5°	2230.5	2235.8	2239.3	2235.8
40°	2097.5	2113.2	2115.0	2118.5
42.5°	1955.7	1976.7	1983.7	1987.1
45°	1785.8	1805.1	1820.8	1817.3
47.5°	1612.5	1626.5	1640.5	1630.0
50°	1446.2	1454.9	1460.2	1460.2
52.5°	1288.6	1288.6	1286.9	1288.6
55°	1108.3	1108.3	1101.3	1104.7
57.5°	919.2	922.7	917.4	908.7
60°	744.1	735.3	731.8	726.6
62.5°	579.5	579.5	567.3	583.0
65°	434.2	429.0	423.7	421.9
67.5°	315.1	313.4	308.1	306.4
70°	222.3	215.4	213.6	210.1
72.5°	148.8	148.8	145.3	145.3
75°	91.0	82.3	80.5	82.3
77.5°	63.0	61.3	61.3	59.5
80°	42.0	40.3	43.8	38.5
82.5°	26.3	28.0	26.3	28.0
85°	17.5	21.0	19.3	19.3
87.5°	10.5	10.5	10.5	10.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)