

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: P248427

Luminaire Tested: **LSR8B80D010 EC8B809730 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B809730 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6480.0 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

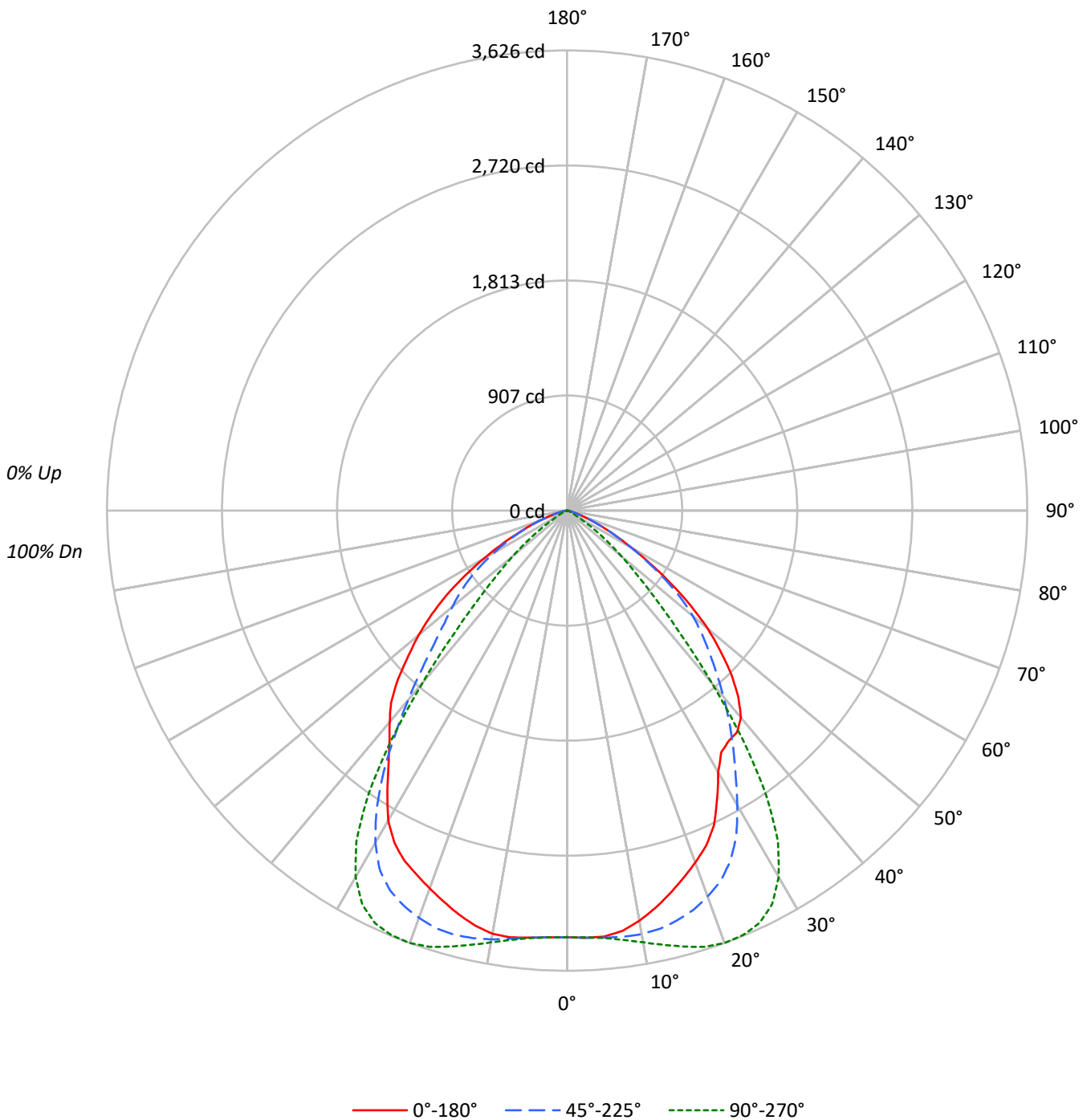
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	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°	323.3	5.0
10°-20°	957.7	14.8
20°-30°	1461.0	22.5
30°-40°	1524.6	23.5
40°-50°	1145.2	17.7
50°-60°	704.6	10.9
60°-70°	286.7	4.4
70°-80°	67.6	1.0
80°-90°	9.3	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°	2742.0	42.3
0°-40°	4266.6	65.8
0°-60°	6116.4	94.4
0°-90°	6480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6480.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3362	3362	3362	3362	3362	
5°	3369	3378	3381	3378	3378	319
15°	3124	3344	3556	3458	3296	880
25°	2737	3044	3586	3303	3040	1244
35°	2218	2280	2732	2525	2453	1400
45°	1831	1584	988	1476	1888	1397
55°	988	938	259	938	1158	889
65°	309	312	39	419	444	322
75°	54	54	7	95	98	64
85°	5	5	2	12	16	8
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°	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6
2.5°	3370.5	3365.2	3370.5	3370.5	3372.3	3368.8	3370.5	3372.3	3368.8	3368.8	3368.8
5°	3368.8	3365.2	3368.8	3367.0	3370.5	3370.5	3374.1	3374.1	3377.7	3377.7	3383.0
7.5°	3340.2	3333.1	3340.2	3345.6	3349.1	3356.3	3365.2	3372.3	3379.5	3386.6	3395.5
10°	3281.3	3281.3	3286.7	3297.4	3308.1	3320.6	3336.6	3354.5	3372.3	3388.4	3404.4
12.5°	3208.2	3202.8	3213.5	3227.8	3243.8	3263.5	3288.5	3315.2	3343.8	3375.9	3400.9
15°	3124.3	3118.9	3131.4	3145.7	3165.3	3193.9	3224.2	3259.9	3301.0	3343.8	3384.8
17.5°	3038.7	3036.9	3049.3	3069.0	3085.1	3115.4	3154.7	3197.4	3243.8	3301.0	3354.5
20°	2951.2	2949.5	2961.9	2978.0	2999.4	3028.0	3067.2	3117.2	3172.5	3236.7	3299.2
22.5°	2860.2	2862.0	2872.7	2890.6	2908.4	2938.7	2979.8	3029.7	3090.4	3160.0	3229.6
25°	2737.1	2728.2	2742.5	2760.3	2790.6	2815.6	2854.9	2908.4	2970.8	3044.0	3126.1
27.5°	2558.7	2556.9	2569.4	2585.4	2612.2	2642.5	2685.4	2740.7	2806.7	2887.0	2967.3
30°	2380.2	2383.8	2389.2	2405.2	2423.1	2453.4	2496.2	2542.6	2605.1	2681.8	2767.4
32.5°	2258.9	2258.9	2266.1	2276.8	2289.2	2305.3	2335.7	2369.5	2417.7	2471.3	2533.7
35°	2217.9	2210.7	2217.9	2219.7	2221.4	2225.0	2230.4	2241.1	2257.1	2280.3	2303.5
37.5°	2200.1	2194.7	2194.7	2187.6	2178.6	2167.9	2153.6	2137.6	2119.8	2096.5	2078.7
40°	2130.5	2126.9	2123.3	2116.2	2096.5	2075.1	2051.9	2014.5	1973.4	1916.3	1859.3
42.5°	1996.6	1993.1	1991.3	1977.0	1959.1	1934.2	1907.4	1868.2	1816.4	1743.3	1661.2
45°	1830.7	1823.5	1818.2	1805.7	1793.2	1771.8	1746.8	1711.1	1659.4	1584.5	1486.3
47.5°	1638.0	1634.4	1632.6	1627.3	1614.8	1602.3	1586.3	1557.7	1511.3	1439.9	1338.2
50°	1443.5	1436.4	1439.9	1438.2	1432.8	1423.9	1413.1	1393.5	1357.8	1293.6	1200.8
52.5°	1220.4	1220.4	1218.7	1224.0	1225.8	1224.0	1225.8	1204.4	1174.1	1125.9	1047.4
55°	988.5	988.5	993.8	1001.0	1008.1	1009.9	1008.1	999.2	977.8	938.5	868.9
57.5°	770.8	767.3	778.0	788.7	795.8	802.9	797.6	790.4	778.0	745.8	692.3
60°	587.0	587.0	594.2	601.3	608.4	615.6	613.8	612.0	601.3	579.9	537.1
62.5°	431.8	433.6	433.6	438.9	446.1	453.2	458.5	453.2	447.9	433.6	405.0
65°	308.7	306.9	308.7	314.0	319.4	326.5	330.1	328.3	322.9	312.2	290.9
67.5°	207.0	205.2	212.3	214.1	217.7	224.8	223.1	224.8	223.1	214.1	196.3
70°	135.6	132.0	135.6	133.8	139.2	141.0	144.5	146.3	144.5	139.2	133.8
72.5°	83.9	82.1	83.9	85.7	87.4	89.2	92.8	92.8	91.0	87.4	80.3
75°	53.5	48.2	49.9	46.4	49.9	49.9	53.5	55.3	53.5	53.5	49.9
77.5°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	33.9	35.7	32.1	30.3
80°	16.1	16.1	17.9	17.9	17.9	19.6	17.9	17.9	17.9	19.6	14.3
82.5°	12.5	10.7	10.7	10.7	12.5	10.7	10.7	10.7	10.7	10.7	10.7
85°	5.4	7.1	5.4	3.6	5.4	5.4	7.1	5.4	5.4	5.4	7.1
87.5°	1.8	1.8	0.0	0.0	0.0	1.8	0.0	1.8	1.8	3.6	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6
2.5°	3370.5	3367.0	3367.0	3365.2	3368.8	3365.2	3367.0	3365.2	3365.2	3368.8	3365.2
5°	3383.0	3384.8	3381.2	3379.5	3384.8	3384.8	3384.8	3381.2	3381.2	3383.0	3381.2
7.5°	3400.9	3404.4	3406.2	3408.0	3411.6	3413.4	3413.4	3411.6	3409.8	3415.2	3408.0
10°	3420.5	3425.9	3436.6	3441.9	3450.8	3450.8	3454.4	3454.4	3450.8	3454.4	3452.6
12.5°	3413.4	3445.5	3463.3	3475.8	3488.3	3499.0	3502.6	3504.4	3502.6	3509.7	3502.6
15°	3425.9	3452.6	3481.2	3502.6	3525.8	3538.2	3541.8	3556.1	3559.7	3561.5	3550.8
17.5°	3406.2	3454.4	3484.7	3516.8	3550.8	3574.0	3595.3	3604.3	3606.1	3609.6	3595.3
20°	3361.6	3415.2	3461.5	3507.9	3547.2	3582.9	3600.7	3625.7	3618.6	3632.8	3613.2
22.5°	3301.0	3361.6	3420.5	3481.2	3522.2	3565.0	3602.5	3620.3	3629.3	3629.3	3607.8
25°	3204.6	3276.0	3340.2	3402.6	3465.1	3516.8	3559.7	3586.4	3591.8	3590.0	3565.0
27.5°	3054.7	3131.4	3206.4	3277.8	3354.5	3415.2	3465.1	3497.2	3506.1	3506.1	3479.4
30°	2847.7	2929.8	3003.0	3088.6	3167.1	3234.9	3304.5	3333.1	3349.1	3349.1	3318.8
32.5°	2601.5	2671.1	2738.9	2822.8	2908.4	2985.1	3051.1	3090.4	3110.0	3108.2	3081.5
35°	2333.9	2367.7	2419.5	2482.0	2558.7	2630.0	2694.3	2731.8	2765.7	2763.9	2738.9
37.5°	2066.2	2057.3	2062.7	2085.8	2134.0	2184.0	2233.9	2269.6	2298.2	2310.7	2305.3
40°	1803.9	1757.5	1712.9	1696.9	1700.4	1718.3	1745.0	1771.8	1803.9	1820.0	1827.1
42.5°	1568.4	1489.9	1411.4	1352.5	1318.6	1307.9	1320.4	1329.3	1348.9	1372.1	1395.3
45°	1379.3	1274.0	1170.5	1079.5	1022.4	988.5	981.4	988.5	999.2	1022.4	1052.7
47.5°	1224.0	1100.9	984.9	883.2	799.3	754.8	742.3	738.7	749.4	770.8	811.8
50°	1086.6	963.5	835.1	717.3	629.9	579.9	562.1	554.9	567.4	583.5	620.9
52.5°	936.7	815.4	683.4	569.2	478.2	426.5	406.8	396.1	403.2	424.7	462.1
55°	774.4	662.0	542.4	424.7	337.2	289.1	265.8	258.7	265.8	289.1	326.5
57.5°	612.0	517.4	417.5	306.9	228.4	180.2	157.0	149.9	169.5	178.4	217.7
60°	478.2	401.5	315.8	224.8	157.0	119.5	96.4	91.0	99.9	116.0	148.1
62.5°	358.7	310.5	242.7	160.6	116.0	76.7	64.2	58.9	64.2	76.7	101.7
65°	260.5	223.1	169.5	117.7	78.5	57.1	42.8	39.2	44.6	53.5	75.0
67.5°	178.4	149.9	117.7	82.1	53.5	35.7	30.3	30.3	32.1	39.2	55.3
70°	116.0	98.1	75.0	53.5	35.7	26.8	23.2	19.6	23.2	28.6	37.5
72.5°	73.2	62.4	48.2	37.5	26.8	19.6	16.1	14.3	17.9	21.4	28.6
75°	44.6	33.9	25.0	19.6	14.3	14.3	14.3	7.1	8.9	14.3	17.9
77.5°	26.8	23.2	19.6	16.1	12.5	7.1	7.1	7.1	8.9	10.7	16.1
80°	14.3	12.5	8.9	8.9	7.1	5.4	7.1	5.4	3.6	8.9	10.7
82.5°	8.9	7.1	7.1	7.1	8.9	3.6	5.4	3.6	5.4	7.1	5.4
85°	5.4	5.4	5.4	3.6	8.9	3.6	3.6	1.8	1.8	3.6	3.6
87.5°	0.0	1.8	1.8	0.0	1.8	0.0	1.8	1.8	1.8	1.8	1.8
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°	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6
2.5°	3367.0	3365.2	3367.0	3365.2	3365.2	3365.2	3367.0	3367.0	3365.2	3365.2	3368.8
5°	3381.2	3381.2	3381.2	3379.5	3377.7	3377.7	3381.2	3381.2	3375.9	3381.2	3381.2
7.5°	3411.6	3406.2	3411.6	3404.4	3400.9	3402.6	3404.4	3400.9	3397.3	3399.1	3399.1
10°	3450.8	3445.5	3445.5	3440.1	3434.8	3431.2	3427.6	3418.7	3409.8	3408.0	3400.9
12.5°	3497.2	3488.3	3483.0	3472.2	3463.3	3450.8	3440.1	3425.9	3408.0	3395.5	3383.0
15°	3543.6	3529.3	3516.8	3499.0	3479.4	3458.0	3434.8	3411.6	3383.0	3358.1	3336.6
17.5°	3581.1	3561.5	3538.2	3509.7	3481.2	3449.0	3415.2	3381.2	3340.2	3308.1	3283.1
20°	3593.6	3565.0	3534.7	3497.2	3459.7	3415.2	3372.3	3327.7	3281.3	3247.4	3218.9
22.5°	3577.5	3543.6	3506.1	3466.9	3416.9	3368.8	3318.8	3267.0	3226.0	3179.6	3152.9
25°	3532.9	3491.9	3450.8	3404.4	3356.3	3302.7	3249.2	3195.7	3145.7	3120.7	3086.8
27.5°	3441.9	3397.3	3352.7	3304.5	3249.2	3195.7	3140.4	3088.6	3045.8	3011.9	2992.3
30°	3281.3	3229.6	3177.8	3126.1	3077.9	3022.6	2970.8	2928.0	2885.2	2858.4	2838.8
32.5°	3035.1	2988.7	2937.0	2887.0	2842.4	2796.0	2753.2	2715.7	2685.4	2667.5	2653.2
35°	2703.2	2656.8	2617.6	2581.9	2544.4	2524.8	2498.0	2476.6	2464.1	2457.0	2455.2
37.5°	2285.7	2258.9	2246.4	2239.3	2232.1	2226.8	2230.4	2239.3	2246.4	2258.9	2273.2
40°	1839.6	1862.8	1869.9	1894.9	1918.1	1948.4	1982.4	2021.6	2053.7	2094.7	2123.3
42.5°	1432.8	1475.6	1525.6	1579.1	1636.2	1691.5	1759.3	1821.8	1878.9	1930.6	1975.2
45°	1100.9	1166.9	1241.9	1318.6	1395.3	1475.6	1557.7	1634.4	1702.2	1757.5	1803.9
47.5°	858.2	931.4	1027.8	1122.3	1215.1	1309.7	1400.7	1481.0	1538.1	1591.6	1632.6
50°	679.8	763.7	868.9	977.8	1079.5	1179.4	1275.8	1350.7	1407.8	1450.6	1481.0
52.5°	526.4	626.3	733.3	847.5	956.4	1065.2	1154.4	1224.0	1270.4	1307.9	1331.1
55°	392.5	490.7	604.9	722.6	833.3	938.5	1022.4	1083.1	1124.1	1145.5	1158.0
57.5°	283.7	372.9	487.1	604.9	704.8	804.7	872.5	927.8	951.0	963.5	968.9
60°	207.0	289.1	390.7	492.5	587.0	667.3	726.2	763.7	781.5	788.7	786.9
62.5°	151.7	223.1	310.5	396.1	472.8	538.8	585.2	610.2	619.2	622.7	617.4
65°	116.0	171.3	246.2	312.2	371.1	419.3	453.2	469.3	474.6	472.8	469.3
67.5°	85.7	128.5	183.8	233.7	276.6	314.0	331.9	346.2	349.7	344.4	339.0
70°	60.7	94.6	133.8	167.7	199.8	221.3	240.9	242.7	242.7	240.9	237.3
72.5°	42.8	66.0	91.0	114.2	133.8	149.9	157.0	162.4	160.6	158.8	155.2
75°	28.6	41.0	66.0	71.4	89.2	94.6	101.7	101.7	103.5	98.1	98.1
77.5°	17.9	28.6	39.2	46.4	53.5	60.7	64.2	64.2	66.0	64.2	64.2
80°	10.7	17.9	21.4	32.1	32.1	37.5	39.2	41.0	37.5	42.8	37.5
82.5°	7.1	10.7	16.1	16.1	19.6	23.2	23.2	25.0	25.0	23.2	23.2
85°	5.4	7.1	8.9	10.7	10.7	12.5	10.7	10.7	12.5	14.3	12.5
87.5°	1.8	3.6	1.8	3.6	3.6	7.1	5.4	5.4	5.4	7.1	7.1
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: P248427

CATALOG NUMBER: LSR8B80D010 EC8B809730 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3361.6	3361.6	3361.6	3361.6
2.5°	3365.2	3367.0	3365.2	3365.2
5°	3381.2	3379.5	3381.2	3377.7
7.5°	3393.7	3393.7	3391.9	3391.9
10°	3393.7	3386.6	3386.6	3386.6
12.5°	3367.0	3358.1	3352.7	3349.1
15°	3320.6	3304.5	3297.4	3295.6
17.5°	3259.9	3245.6	3236.7	3231.4
20°	3190.3	3176.0	3165.3	3167.1
22.5°	3129.6	3113.6	3106.5	3102.9
25°	3069.0	3049.3	3044.0	3040.4
27.5°	2970.8	2960.2	2954.8	2949.5
30°	2821.0	2815.6	2806.7	2819.2
32.5°	2647.9	2639.0	2631.8	2637.2
35°	2457.0	2451.6	2457.0	2453.4
37.5°	2282.1	2287.5	2294.6	2298.2
40°	2144.7	2164.3	2171.5	2175.0
42.5°	2007.3	2030.5	2044.8	2053.7
45°	1837.8	1861.0	1877.1	1887.8
47.5°	1663.0	1682.6	1698.6	1696.9
50°	1504.2	1514.9	1522.0	1529.1
52.5°	1343.6	1343.6	1345.3	1345.3
55°	1161.6	1158.0	1156.2	1158.0
57.5°	961.7	958.2	956.4	951.0
60°	779.7	769.0	761.9	761.9
62.5°	610.2	597.7	592.4	590.6
65°	458.5	456.8	446.1	444.3
67.5°	331.9	324.7	317.6	319.4
70°	233.7	223.1	223.1	219.5
72.5°	151.7	146.3	144.5	144.5
75°	94.6	94.6	91.0	98.1
77.5°	62.4	62.4	60.7	62.4
80°	37.5	37.5	37.5	35.7
82.5°	23.2	25.0	23.2	23.2
85°	12.5	14.3	10.7	16.1
87.5°	7.1	8.9	7.1	8.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)