

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: P249606

Luminaire Tested: **LSR8B80D010 EC8B80927 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249606
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 EC8B80927 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6573.3 lumens
Efficiency: N/A
Efficacy: 88.4 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

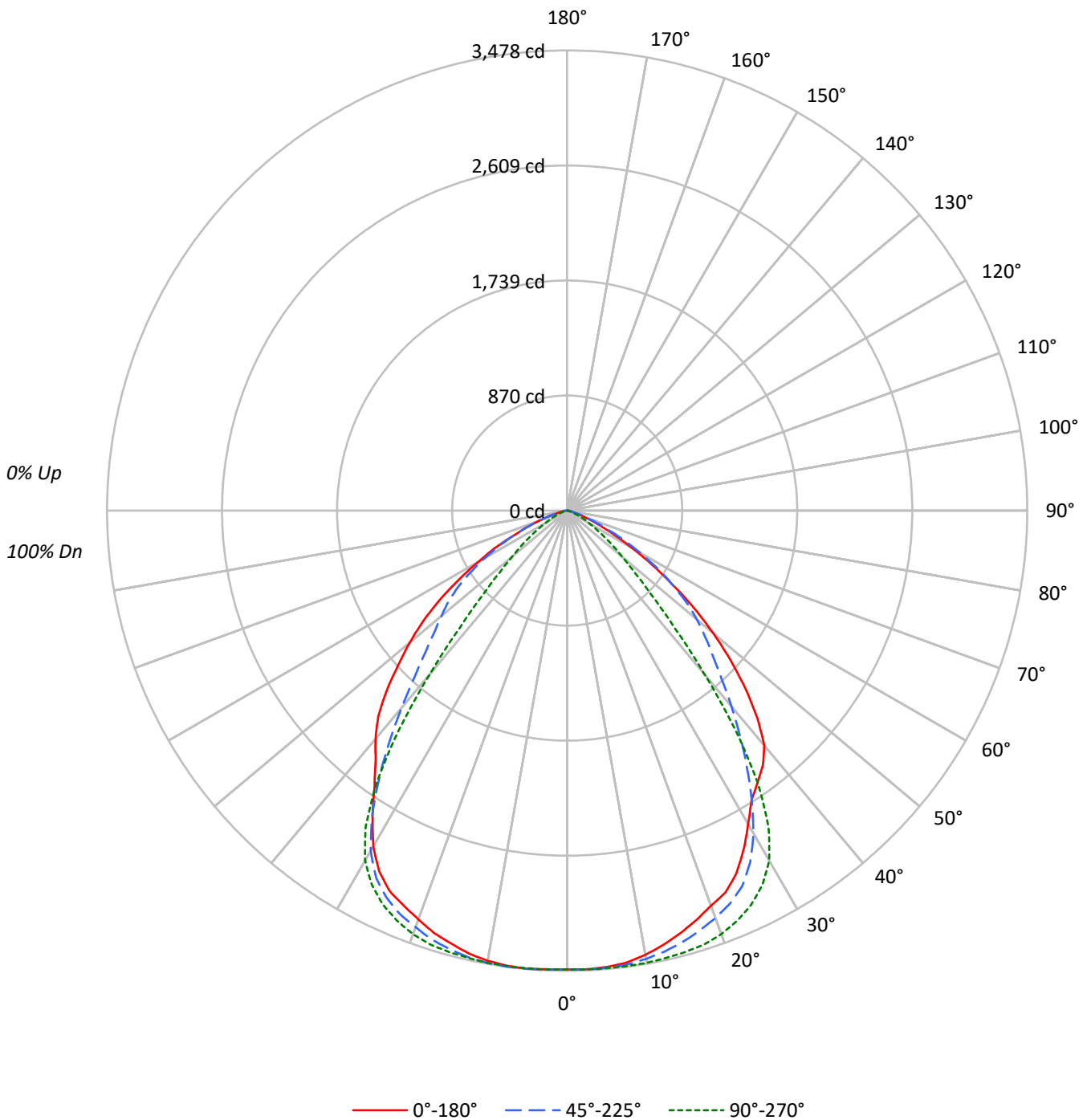
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	331.0	5.0
10°-20°	961.3	14.6
20°-30°	1459.0	22.2
30°-40°	1532.4	23.3
40°-50°	1148.9	17.5
50°-60°	737.1	11.2
60°-70°	315.3	4.8
70°-80°	74.5	1.1
80°-90°	13.8	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°	2751.3	41.9
0°-40°	4283.6	65.2
0°-60°	6169.7	93.9
0°-90°	6573.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6573.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3468	3468	3468	3468	3468	
5°	3463	3468	3472	3478	3476	329
15°	3306	3375	3453	3431	3388	933
25°	3025	3131	3290	3230	3174	1382
35°	2510	2370	2511	2482	2537	1575
45°	1906	1558	896	1514	1932	1460
55°	964	964	333	1005	1175	875
65°	290	343	106	441	449	310
75°	45	52	15	89	88	65
85°	15	9	7	15	20	16
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°	3468.3	3468.3	3468.3	3468.3	3468.3	3468.3	3468.3	3468.3	3468.3	3468.3	3468.3
2.5°	3470.1	3473.9	3472.0	3472.0	3470.1	3472.0	3472.0	3475.7	3475.7	3472.0	3470.1
5°	3462.6	3466.4	3466.4	3462.6	3462.6	3472.0	3466.4	3470.1	3470.1	3468.3	3468.3
7.5°	3445.9	3445.9	3453.3	3447.8	3447.8	3453.3	3451.5	3455.2	3458.9	3460.8	3460.8
10°	3408.6	3412.4	3414.3	3414.3	3416.2	3421.7	3425.4	3432.9	3436.5	3440.4	3442.2
12.5°	3362.2	3367.7	3369.6	3367.7	3373.3	3380.7	3390.1	3399.4	3404.9	3412.4	3418.0
15°	3306.3	3306.3	3310.0	3315.6	3319.3	3330.4	3339.8	3350.9	3365.9	3375.2	3384.4
17.5°	3244.8	3248.5	3254.2	3254.2	3261.6	3280.2	3285.8	3302.6	3319.3	3328.6	3347.2
20°	3177.9	3181.5	3187.1	3190.8	3200.2	3215.0	3226.3	3241.1	3259.8	3276.6	3295.1
22.5°	3125.7	3118.3	3122.0	3125.7	3135.0	3148.1	3161.1	3179.7	3198.3	3215.0	3233.7
25°	3025.1	3027.0	3032.7	3036.4	3047.5	3058.6	3073.6	3095.9	3112.6	3131.3	3151.8
27.5°	2889.3	2891.1	2900.5	2900.5	2909.7	2928.4	2937.7	2956.3	2978.7	2997.2	3021.5
30°	2734.8	2738.5	2738.5	2745.9	2751.5	2760.9	2770.1	2788.8	2799.9	2816.7	2850.2
32.5°	2593.2	2597.0	2595.2	2593.2	2587.7	2585.8	2583.9	2587.7	2591.4	2597.0	2610.0
35°	2509.5	2500.2	2492.8	2479.7	2464.9	2446.2	2429.4	2407.2	2386.6	2369.8	2351.2
37.5°	2429.4	2427.5	2416.4	2397.8	2368.0	2334.5	2295.5	2247.0	2198.6	2146.5	2096.2
40°	2317.7	2312.1	2302.9	2276.8	2243.2	2202.3	2150.2	2090.6	2012.4	1932.4	1850.5
42.5°	2127.8	2129.7	2118.6	2098.0	2066.4	2027.4	1973.4	1908.2	1824.4	1729.5	1623.4
45°	1906.3	1906.3	1902.6	1885.8	1863.6	1831.8	1790.9	1736.9	1655.0	1558.1	1444.6
47.5°	1675.5	1677.4	1671.8	1668.0	1658.7	1638.2	1608.4	1567.5	1509.8	1416.7	1303.1
50°	1440.9	1440.9	1450.2	1448.3	1448.3	1440.9	1427.9	1403.7	1353.4	1278.9	1172.8
52.5°	1206.3	1210.0	1215.7	1223.1	1232.4	1247.3	1232.4	1221.2	1189.6	1131.9	1040.6
55°	964.4	968.1	977.4	990.3	1001.6	1016.4	1020.2	1020.2	1003.4	964.4	895.5
57.5°	757.7	752.1	759.6	770.7	785.6	800.6	811.7	824.7	822.8	796.8	740.9
60°	569.7	571.5	577.1	588.3	599.5	612.4	627.4	638.6	644.2	631.1	595.7
62.5°	415.1	415.1	422.6	433.7	439.3	458.0	467.2	472.8	478.5	476.6	454.3
65°	290.5	294.1	297.9	303.4	309.0	320.2	325.8	336.9	340.7	342.6	325.8
67.5°	204.8	199.2	203.0	206.7	212.2	219.7	230.8	230.8	236.4	236.4	225.2
70°	130.3	130.3	132.2	137.7	141.5	143.3	147.0	150.8	156.4	154.5	154.5
72.5°	87.5	85.6	87.5	89.3	91.2	96.8	96.8	98.7	102.4	104.3	96.8
75°	44.7	46.6	50.3	48.4	54.0	50.3	52.1	57.7	55.8	52.1	52.1
77.5°	37.2	37.2	37.2	35.4	39.0	39.0	37.2	40.9	39.0	39.0	37.2
80°	26.1	27.9	26.1	24.2	26.1	24.2	24.2	24.2	24.2	24.2	22.3
82.5°	20.5	16.8	18.7	16.8	18.7	18.7	16.8	14.8	14.8	16.8	14.8
85°	14.8	11.1	13.0	13.0	11.1	11.1	11.1	11.1	11.1	9.3	9.3
87.5°	9.3	5.6	5.6	5.6	7.4	7.4	7.4	5.6	7.4	7.4	3.7
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°	3468.3	3468.3	3468.3	3468.3	3468.3	3468.3	3468.3	3468.3	3468.3	3468.3	3468.3
2.5°	3473.9	3472.0	3475.7	3473.9	3473.9	3472.0	3473.9	3472.0	3475.7	3468.3	3470.1
5°	3473.9	3470.1	3472.0	3473.9	3475.7	3472.0	3472.0	3472.0	3475.7	3472.0	3473.9
7.5°	3466.4	3464.6	3470.1	3473.9	3472.0	3470.1	3473.9	3472.0	3475.7	3473.9	3477.5
10°	3451.5	3453.3	3457.1	3462.6	3464.6	3466.4	3470.1	3470.1	3475.7	3468.3	3472.0
12.5°	3429.1	3436.5	3445.9	3449.6	3457.1	3457.1	3460.8	3462.6	3466.4	3464.6	3470.1
15°	3401.2	3410.6	3421.7	3431.0	3440.4	3445.9	3451.5	3453.3	3458.9	3453.3	3455.2
17.5°	3367.7	3378.8	3395.6	3406.8	3421.7	3427.3	3434.7	3438.4	3444.1	3440.4	3442.2
20°	3321.1	3334.3	3352.8	3369.6	3378.8	3391.9	3401.2	3406.8	3410.6	3406.8	3408.6
22.5°	3256.0	3274.6	3298.8	3311.9	3330.4	3341.7	3343.5	3356.6	3365.9	3356.6	3360.3
25°	3179.7	3198.3	3216.9	3244.8	3261.6	3274.6	3287.7	3289.5	3298.8	3296.9	3295.1
27.5°	3053.1	3077.3	3108.9	3131.3	3153.6	3174.1	3189.0	3192.8	3202.1	3198.3	3200.2
30°	2880.0	2906.1	2935.8	2971.2	3002.8	3023.3	3041.9	3054.9	3064.3	3058.6	3056.8
32.5°	2634.2	2660.3	2691.9	2727.3	2764.6	2794.3	2816.7	2833.4	2844.6	2840.8	2831.6
35°	2353.2	2360.6	2381.1	2409.0	2440.6	2472.3	2492.8	2511.3	2524.4	2528.1	2528.1
37.5°	2064.6	2040.4	2025.4	2025.4	2044.1	2057.1	2075.7	2086.9	2107.4	2114.8	2120.4
40°	1785.3	1729.5	1677.4	1638.2	1612.2	1610.3	1610.3	1615.8	1634.5	1658.7	1681.1
42.5°	1535.9	1446.5	1366.4	1293.9	1241.8	1212.0	1198.9	1200.8	1215.7	1238.0	1275.2
45°	1336.6	1225.0	1124.4	1036.9	966.2	919.7	897.3	895.5	906.6	932.6	973.7
47.5°	1182.1	1063.0	949.4	848.9	772.6	722.4	696.3	688.8	696.3	720.4	768.8
50°	1053.7	930.8	813.6	709.3	627.4	575.2	551.0	541.7	551.0	571.5	619.9
52.5°	934.5	808.0	698.2	597.6	510.1	465.4	439.3	433.7	439.3	463.5	502.6
55°	796.8	688.8	580.8	480.3	404.0	359.3	338.8	333.2	338.8	361.1	402.1
57.5°	660.9	567.8	472.8	381.6	316.5	277.3	258.8	251.3	264.4	279.2	327.6
60°	534.3	459.8	379.8	299.7	245.7	210.4	195.4	193.6	197.3	216.0	249.4
62.5°	418.8	357.4	294.1	228.9	184.3	169.4	150.8	149.0	152.7	163.8	189.9
65°	301.6	262.5	214.1	167.5	132.2	111.7	104.3	106.1	109.8	117.3	141.5
67.5°	210.4	182.5	149.0	117.3	91.2	81.9	74.5	72.6	74.5	87.5	100.6
70°	141.5	124.8	100.6	89.3	63.3	50.3	52.1	46.6	54.0	54.0	65.1
72.5°	93.0	81.9	67.0	52.1	44.7	35.4	35.4	33.5	37.2	39.0	48.4
75°	48.4	37.2	37.2	26.1	18.7	9.3	16.8	14.8	13.0	14.8	18.7
77.5°	33.5	27.9	26.1	20.5	18.7	14.8	14.8	14.8	14.8	16.8	18.7
80°	20.5	20.5	14.8	13.0	11.1	9.3	11.1	11.1	11.1	11.1	13.0
82.5°	13.0	11.1	11.1	9.3	9.3	7.4	7.4	7.4	7.4	7.4	11.1
85°	11.1	7.4	7.4	5.6	7.4	13.0	5.6	7.4	7.4	7.4	5.6
87.5°	3.7	5.6	5.6	5.6	3.7	1.9	3.7	5.6	5.6	9.3	7.4
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°	3468.3	3468.3	3468.3	3468.3	3468.3	3468.3	3468.3	3468.3	3468.3	3468.3	3468.3
2.5°	3473.9	3475.7	3475.7	3473.9	3473.9	3470.1	3477.5	3472.0	3473.9	3481.3	3475.7
5°	3477.5	3479.4	3479.4	3477.5	3477.5	3477.5	3479.4	3479.4	3477.5	3475.7	3479.4
7.5°	3485.0	3483.1	3483.1	3479.4	3479.4	3475.7	3479.4	3473.9	3477.5	3473.9	3479.4
10°	3475.7	3477.5	3475.7	3473.9	3473.9	3472.0	3472.0	3466.4	3468.3	3462.6	3466.4
12.5°	3470.1	3468.3	3468.3	3464.6	3460.8	3457.1	3455.2	3449.6	3449.6	3436.5	3442.2
15°	3455.2	3457.1	3451.5	3444.1	3440.4	3431.0	3427.3	3419.8	3412.4	3403.1	3404.9
17.5°	3442.2	3436.5	3429.1	3421.7	3406.8	3399.4	3391.9	3380.7	3377.0	3365.9	3362.2
20°	3403.1	3399.4	3390.1	3377.0	3367.7	3350.9	3343.5	3332.4	3323.0	3311.9	3306.3
22.5°	3352.8	3349.1	3337.9	3324.9	3310.0	3302.6	3295.1	3274.6	3265.3	3254.2	3252.3
25°	3289.5	3284.0	3272.7	3257.9	3250.5	3230.0	3222.5	3207.6	3203.9	3192.8	3190.8
27.5°	3192.8	3185.3	3172.3	3153.6	3140.5	3127.6	3120.2	3108.9	3105.2	3094.1	3092.2
30°	3047.5	3038.2	3012.2	3004.8	2982.4	2969.3	2969.3	2954.5	2956.3	2948.8	2948.8
32.5°	2818.6	2803.6	2783.1	2768.3	2753.3	2745.9	2745.9	2740.3	2744.1	2744.1	2747.8
35°	2515.0	2494.6	2483.4	2474.1	2474.1	2481.5	2503.9	2509.5	2520.7	2530.0	2537.4
37.5°	2126.0	2124.1	2137.2	2148.3	2176.3	2207.9	2247.0	2280.5	2312.1	2334.5	2356.9
40°	1705.3	1751.8	1789.1	1841.2	1883.9	1945.5	2016.1	2073.8	2127.8	2167.0	2207.9
42.5°	1331.1	1390.6	1468.8	1545.2	1621.5	1705.3	1798.4	1878.4	1949.2	2003.2	2045.9
45°	1036.9	1118.8	1213.8	1310.6	1409.3	1513.6	1610.3	1692.2	1766.7	1822.6	1865.4
47.5°	835.9	925.2	1033.2	1139.3	1251.0	1360.8	1468.8	1539.6	1601.0	1645.6	1684.8
50°	690.6	785.6	899.2	1020.2	1131.9	1241.8	1334.8	1403.7	1454.0	1493.0	1517.2
52.5°	577.1	677.6	798.6	919.7	1031.3	1131.9	1215.7	1267.8	1308.7	1336.6	1359.0
55°	476.6	573.4	686.9	800.6	910.4	1005.3	1074.1	1113.3	1144.9	1161.7	1174.7
57.5°	389.1	478.5	582.8	686.9	781.9	860.1	914.1	953.2	968.1	981.1	979.2
60°	305.3	389.1	484.0	573.4	655.3	718.5	757.7	780.1	791.2	796.8	793.0
62.5°	240.2	316.5	389.1	467.2	526.8	580.8	618.1	618.1	623.7	625.5	631.1
65°	178.6	236.4	299.7	357.4	405.8	441.2	461.7	467.2	474.8	472.8	469.1
67.5°	132.2	175.0	221.5	264.4	297.9	320.2	335.0	348.2	346.3	342.6	340.7
70°	91.2	119.1	160.1	186.2	210.4	232.8	236.4	238.3	240.2	242.0	238.3
72.5°	63.3	83.8	106.1	128.5	143.3	152.7	162.0	163.8	163.8	163.8	162.0
75°	31.6	42.9	63.3	72.6	85.6	89.3	96.8	96.8	102.4	95.0	93.0
77.5°	27.9	33.5	44.7	52.1	57.7	63.3	65.1	70.8	68.9	65.1	67.0
80°	16.8	20.5	27.9	31.6	39.0	40.9	42.9	44.7	42.9	44.7	44.7
82.5°	13.0	14.8	18.7	18.7	24.2	24.2	26.1	26.1	27.9	27.9	27.9
85°	7.4	13.0	11.1	22.3	14.8	14.8	18.7	22.3	18.7	18.7	22.3
87.5°	7.4	7.4	5.6	7.4	7.4	7.4	9.3	11.1	11.1	13.0	11.1
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: P249606

CATALOG NUMBER: LSR8B80D010 EC8B80927 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3468.3	3468.3	3468.3	3468.3
2.5°	3473.9	3477.5	3472.0	3470.1
5°	3479.4	3479.4	3475.7	3475.7
7.5°	3479.4	3479.4	3473.9	3470.1
10°	3464.6	3464.6	3458.9	3455.2
12.5°	3436.5	3436.5	3434.7	3429.1
15°	3401.2	3401.2	3393.8	3388.2
17.5°	3352.8	3356.6	3347.2	3347.2
20°	3300.8	3298.8	3291.4	3287.7
22.5°	3246.8	3243.0	3241.1	3230.0
25°	3189.0	3185.3	3179.7	3174.1
27.5°	3090.4	3088.5	3082.8	3075.4
30°	2939.5	2937.7	2930.3	2930.3
32.5°	2744.1	2742.2	2734.8	2736.7
35°	2541.2	2548.6	2544.9	2537.4
37.5°	2371.7	2377.4	2381.1	2377.4
40°	2230.2	2247.0	2248.9	2252.6
42.5°	2079.5	2101.8	2109.3	2113.0
45°	1898.9	1919.4	1936.1	1932.4
47.5°	1714.6	1729.5	1744.3	1733.2
50°	1537.8	1547.0	1552.6	1552.6
52.5°	1370.1	1370.1	1368.3	1370.1
55°	1178.4	1178.4	1171.0	1174.7
57.5°	977.4	981.1	975.5	966.2
60°	791.2	781.9	778.2	772.6
62.5°	616.3	616.3	603.2	619.9
65°	461.7	456.1	450.4	448.6
67.5°	335.0	333.2	327.6	325.8
70°	236.4	228.9	227.1	223.4
72.5°	158.3	158.3	154.5	154.5
75°	96.8	87.5	85.6	87.5
77.5°	67.0	65.1	65.1	63.3
80°	44.7	42.9	46.6	40.9
82.5°	27.9	29.8	27.9	29.8
85°	18.7	22.3	20.5	20.5
87.5°	11.1	11.1	11.1	11.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)