

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: P249509

Luminaire Tested: **LSR8B100D010 EC8B1009730 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249509
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: LSR8B100D010 EC8B1009730 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7190.0 lumens
Efficiency: N/A
Efficacy: 67.6 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

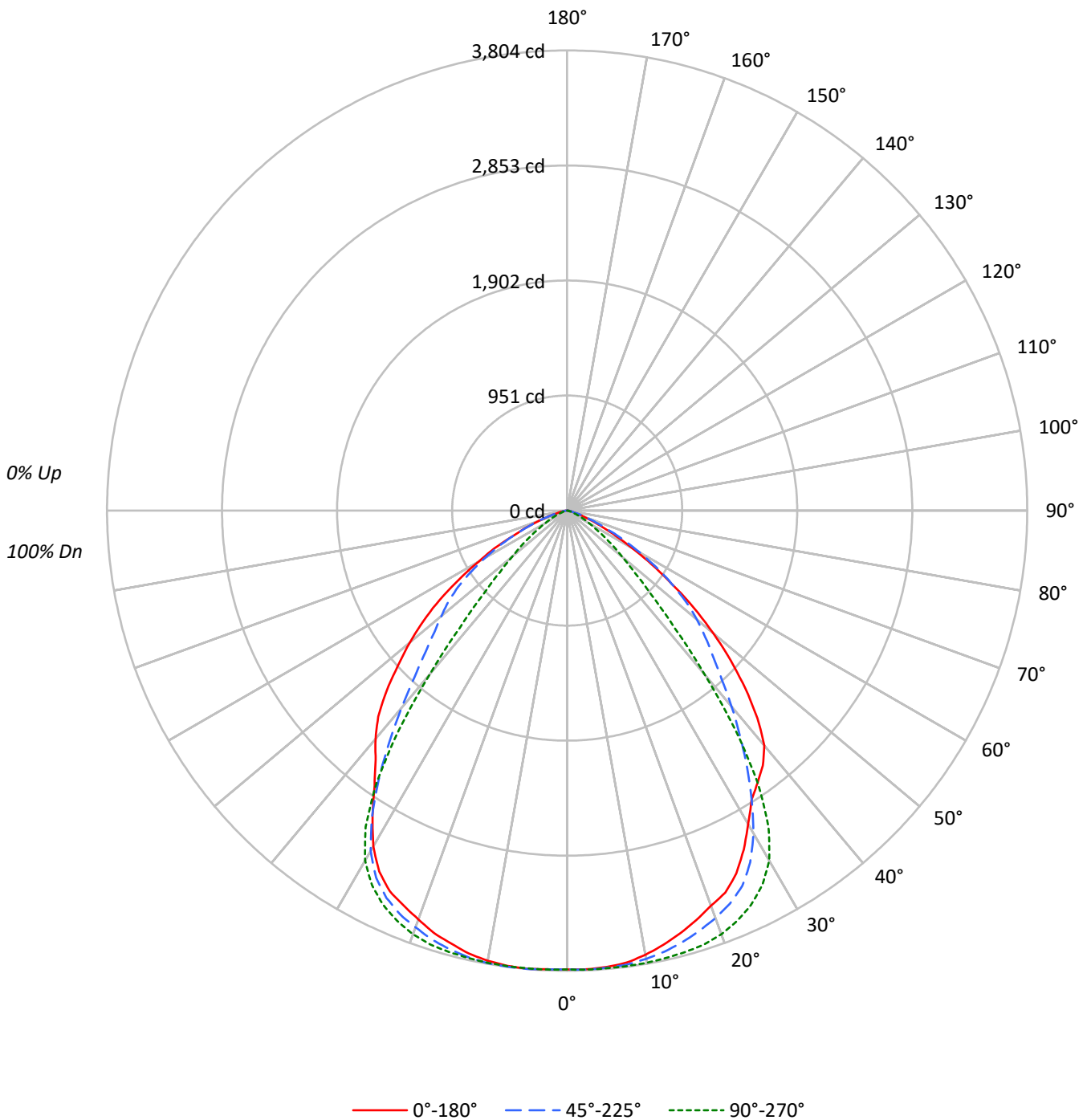
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90	90	90	90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79	79	79	79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70	70	70	70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62	62	62	62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55	55	55	55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50	50	50	50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45	45	45	45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41	41	41	41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37	37	37	37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34	34	34	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°	362.0	5.0
10°-20°	1051.4	14.6
20°-30°	1595.9	22.2
30°-40°	1676.1	23.3
40°-50°	1256.7	17.5
50°-60°	806.3	11.2
60°-70°	344.9	4.8
70°-80°	81.5	1.1
80°-90°	15.1	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°	3009.3	41.9
0°-40°	4685.5	65.2
0°-60°	6748.4	93.9
0°-90°	7190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7190.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3794	3794	3794	3794	3794	
5°	3788	3794	3798	3804	3802	360
15°	3616	3692	3777	3753	3706	1020
25°	3309	3425	3598	3533	3472	1512
35°	2745	2592	2747	2714	2776	1723
45°	2085	1704	979	1656	2114	1597
55°	1055	1055	364	1100	1285	957
65°	318	375	116	483	491	339
75°	49	57	16	98	96	71
85°	16	10	8	16	22	17
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°	3793.6	3793.6	3793.6	3793.6	3793.6	3793.6	3793.6	3793.6	3793.6	3793.6	3793.6
2.5°	3795.6	3799.7	3797.7	3797.7	3795.6	3797.7	3797.7	3801.8	3801.8	3797.7	3795.6
5°	3787.5	3791.5	3791.5	3787.5	3787.5	3797.7	3791.5	3795.6	3795.6	3793.6	3793.6
7.5°	3769.2	3769.2	3777.3	3771.2	3771.2	3777.3	3775.3	3779.3	3783.4	3785.5	3785.5
10°	3728.4	3732.5	3734.5	3734.5	3736.6	3742.7	3746.8	3754.9	3759.0	3763.0	3765.1
12.5°	3677.5	3683.6	3685.7	3683.6	3689.8	3697.9	3708.1	3718.3	3724.4	3732.5	3738.6
15°	3616.4	3616.4	3620.5	3626.6	3630.7	3642.9	3653.1	3665.3	3681.6	3691.8	3702.0
17.5°	3549.2	3553.3	3559.4	3559.4	3567.6	3587.9	3594.0	3612.4	3630.7	3640.9	3661.3
20°	3476.0	3480.0	3486.1	3490.2	3500.4	3516.7	3528.9	3545.2	3565.5	3583.9	3604.2
22.5°	3418.9	3410.8	3414.8	3418.9	3429.1	3443.4	3457.6	3477.9	3498.3	3516.7	3537.0
25°	3308.9	3311.0	3317.1	3321.2	3333.4	3345.6	3361.9	3386.3	3404.7	3425.0	3447.4
27.5°	3160.3	3162.4	3172.5	3172.5	3182.7	3203.1	3213.2	3233.6	3258.1	3278.4	3304.9
30°	2991.3	2995.3	2995.3	3003.5	3009.6	3019.8	3030.0	3050.4	3062.6	3080.9	3117.6
32.5°	2836.6	2840.6	2838.6	2836.6	2830.4	2828.4	2826.3	2830.4	2834.5	2840.6	2854.8
35°	2744.9	2734.7	2726.6	2712.3	2696.1	2675.7	2657.3	2632.9	2610.5	2592.2	2571.8
37.5°	2657.3	2655.3	2643.1	2622.7	2590.1	2553.5	2510.8	2457.8	2404.8	2347.8	2292.9
40°	2535.2	2529.0	2518.9	2490.4	2453.7	2408.9	2351.9	2286.7	2201.2	2113.7	2024.1
42.5°	2327.5	2329.5	2317.3	2294.9	2260.3	2217.5	2158.4	2087.2	1995.6	1891.7	1775.6
45°	2085.2	2085.2	2081.1	2062.7	2038.3	2003.7	1958.9	1899.9	1810.3	1704.3	1580.1
47.5°	1832.6	1834.7	1828.6	1824.5	1814.3	1791.9	1759.4	1714.6	1651.4	1549.6	1425.4
50°	1576.1	1576.1	1586.3	1584.2	1584.2	1576.1	1561.8	1535.3	1480.4	1398.9	1282.9
52.5°	1319.5	1323.6	1329.7	1337.8	1348.0	1364.3	1348.0	1335.8	1301.2	1238.0	1138.3
55°	1054.8	1058.9	1069.0	1083.3	1095.5	1111.8	1115.9	1115.9	1097.5	1054.8	979.4
57.5°	828.8	822.7	830.8	843.0	859.3	875.6	887.8	902.1	900.0	871.5	810.4
60°	623.1	625.1	631.2	643.5	655.7	669.9	686.2	698.4	704.6	690.3	651.6
62.5°	454.1	454.1	462.2	474.4	480.6	500.9	511.1	517.2	523.3	521.3	496.8
65°	317.7	321.7	325.8	331.9	338.0	350.2	356.3	368.6	372.6	374.7	356.3
67.5°	224.0	217.9	222.0	226.0	232.1	240.3	252.5	252.5	258.6	258.6	246.4
70°	142.5	142.5	144.6	150.7	154.8	156.8	160.9	164.9	171.0	169.0	169.0
72.5°	95.7	93.7	95.7	97.8	99.8	105.9	105.9	107.9	112.0	114.0	105.9
75°	48.9	50.9	55.0	53.0	59.0	55.0	57.0	63.1	61.1	57.0	57.0
77.5°	40.7	40.7	40.7	38.7	42.7	42.7	40.7	44.8	42.7	42.7	40.7
80°	28.5	30.5	28.5	26.5	28.5	26.5	26.5	26.5	26.5	26.5	24.4
82.5°	22.4	18.3	20.4	18.3	20.4	20.4	18.3	16.3	16.3	18.3	16.3
85°	16.3	12.2	14.2	14.2	12.2	12.2	12.2	12.2	12.2	10.2	10.2
87.5°	10.2	6.1	6.1	6.1	8.1	8.1	8.1	6.1	8.1	8.1	4.1
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: P249509

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3793.6	3793.6	3793.6	3793.6	3793.6	3793.6	3793.6	3793.6	3793.6	3793.6	3793.6
2.5°	3799.7	3797.7	3801.8	3799.7	3799.7	3797.7	3799.7	3797.7	3801.8	3793.6	3795.6
5°	3799.7	3795.6	3797.7	3799.7	3801.8	3797.7	3797.7	3797.7	3801.8	3797.7	3799.7
7.5°	3791.5	3789.5	3795.6	3799.7	3797.7	3795.6	3799.7	3797.7	3801.8	3799.7	3803.8
10°	3775.3	3777.3	3781.4	3787.5	3789.5	3791.5	3795.6	3795.6	3801.8	3793.6	3797.7
12.5°	3750.8	3759.0	3769.2	3773.2	3781.4	3781.4	3785.5	3787.5	3791.5	3789.5	3795.6
15°	3720.3	3730.5	3742.7	3752.9	3763.0	3769.2	3775.3	3777.3	3783.4	3777.3	3779.3
17.5°	3683.6	3695.8	3714.2	3726.4	3742.7	3748.8	3756.9	3761.0	3767.1	3763.0	3765.1
20°	3632.7	3647.0	3667.3	3685.7	3695.8	3710.1	3720.3	3726.4	3730.5	3726.4	3728.4
22.5°	3561.5	3581.8	3608.3	3622.5	3642.9	3655.1	3657.2	3671.4	3681.6	3671.4	3675.5
25°	3477.9	3498.3	3518.7	3549.2	3567.6	3581.8	3596.1	3598.1	3608.3	3606.2	3604.2
27.5°	3339.5	3366.0	3400.6	3425.0	3449.4	3471.9	3488.2	3492.2	3502.4	3498.3	3500.4
30°	3150.1	3178.7	3211.2	3249.9	3284.5	3306.9	3327.3	3341.5	3351.7	3345.6	3343.6
32.5°	2881.3	2909.8	2944.5	2983.1	3023.9	3056.4	3080.9	3099.2	3111.4	3107.4	3097.2
35°	2573.9	2582.0	2604.4	2635.0	2669.5	2704.2	2726.6	2746.9	2761.2	2765.3	2765.3
37.5°	2258.2	2231.8	2215.5	2215.5	2235.8	2250.1	2270.5	2282.7	2305.1	2313.2	2319.3
40°	1952.8	1891.7	1834.7	1791.9	1763.4	1761.4	1761.4	1767.5	1787.9	1814.3	1838.8
42.5°	1679.9	1582.2	1494.6	1415.2	1358.2	1325.6	1311.4	1313.4	1329.7	1354.1	1394.8
45°	1462.0	1339.9	1229.9	1134.2	1056.8	1005.9	981.5	979.4	991.7	1020.2	1065.0
47.5°	1293.0	1162.7	1038.5	928.5	845.1	790.1	761.6	753.4	761.6	788.0	841.0
50°	1152.5	1018.2	889.9	775.8	686.2	629.2	602.7	592.6	602.7	625.1	678.1
52.5°	1022.2	883.7	763.6	653.6	557.9	509.1	480.6	474.4	480.6	507.0	549.8
55°	871.5	753.4	635.3	525.3	441.9	393.0	370.6	364.5	370.6	395.1	439.8
57.5°	722.9	621.1	517.2	417.4	346.2	303.4	283.1	274.9	289.1	305.4	358.4
60°	584.4	503.0	415.4	327.8	268.8	230.1	213.8	211.8	215.8	236.2	272.8
62.5°	458.2	391.0	321.7	250.5	201.6	185.3	164.9	162.9	167.0	179.2	207.7
65°	329.9	287.1	234.2	183.3	144.6	122.2	114.0	116.1	120.1	128.3	154.8
67.5°	230.1	199.5	162.9	128.3	99.8	89.6	81.5	79.4	81.5	95.7	110.0
70°	154.8	136.4	110.0	97.8	69.3	55.0	57.0	50.9	59.0	59.0	71.2
72.5°	101.8	89.6	73.3	57.0	48.9	38.7	38.7	36.7	40.7	42.7	53.0
75°	53.0	40.7	40.7	28.5	20.4	10.2	18.3	16.3	14.2	16.3	20.4
77.5°	36.7	30.5	28.5	22.4	20.4	16.3	16.3	16.3	16.3	18.3	20.4
80°	22.4	22.4	16.3	14.2	12.2	10.2	12.2	12.2	12.2	12.2	14.2
82.5°	14.2	12.2	12.2	10.2	10.2	8.1	8.1	8.1	8.1	8.1	12.2
85°	12.2	8.1	8.1	6.1	8.1	14.2	6.1	8.1	8.1	8.1	6.1
87.5°	4.1	6.1	6.1	6.1	4.1	2.0	4.1	6.1	6.1	10.2	8.1
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: LSR8B100D010 EC8B1009730 8LBDW0B

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3793.6	3793.6	3793.6	3793.6	3793.6	3793.6	3793.6	3793.6	3793.6	3793.6	3793.6
2.5°	3799.7	3801.8	3801.8	3799.7	3799.7	3795.6	3803.8	3797.7	3799.7	3807.8	3801.8
5°	3803.8	3805.8	3805.8	3803.8	3803.8	3803.8	3805.8	3805.8	3803.8	3801.8	3805.8
7.5°	3811.9	3809.9	3809.9	3805.8	3805.8	3801.8	3805.8	3799.7	3803.8	3799.7	3805.8
10°	3801.8	3803.8	3801.8	3799.7	3799.7	3797.7	3797.7	3791.5	3793.6	3787.5	3791.5
12.5°	3795.6	3793.6	3793.6	3789.5	3785.5	3781.4	3779.3	3773.2	3773.2	3759.0	3765.1
15°	3779.3	3781.4	3775.3	3767.1	3763.0	3752.9	3748.8	3740.6	3732.5	3722.3	3724.4
17.5°	3765.1	3759.0	3750.8	3742.7	3726.4	3718.3	3710.1	3697.9	3693.8	3681.6	3677.5
20°	3722.3	3718.3	3708.1	3693.8	3683.6	3665.3	3657.2	3645.0	3634.7	3622.5	3616.4
22.5°	3667.3	3663.2	3651.0	3636.8	3620.5	3612.4	3604.2	3581.8	3571.6	3559.4	3557.4
25°	3598.1	3592.0	3579.8	3563.5	3555.3	3533.0	3524.8	3508.5	3504.5	3492.2	3490.2
27.5°	3492.2	3484.1	3469.8	3449.4	3435.2	3420.9	3412.8	3400.6	3396.5	3384.3	3382.3
30°	3333.4	3323.2	3294.7	3286.6	3262.1	3247.9	3247.9	3231.6	3233.6	3225.5	3225.5
32.5°	3082.9	3066.6	3044.2	3027.9	3011.6	3003.5	3003.5	2997.4	3001.5	3001.5	3005.6
35°	2751.0	2728.6	2716.4	2706.2	2706.2	2714.3	2738.8	2744.9	2757.1	2767.3	2775.5
37.5°	2325.4	2323.4	2337.7	2349.9	2380.4	2415.0	2457.8	2494.5	2529.0	2553.5	2577.9
40°	1865.2	1916.1	1956.9	2013.9	2060.7	2127.9	2205.3	2268.4	2327.5	2370.2	2415.0
42.5°	1455.9	1521.1	1606.6	1690.1	1773.6	1865.2	1967.1	2054.6	2132.0	2191.0	2237.9
45°	1134.2	1223.8	1327.7	1433.5	1541.5	1655.5	1761.4	1851.0	1932.4	1993.5	2040.4
47.5°	914.3	1012.0	1130.1	1246.2	1368.4	1488.5	1606.6	1684.0	1751.2	1800.1	1842.9
50°	755.4	859.3	983.5	1115.9	1238.0	1358.2	1460.0	1535.3	1590.3	1633.1	1659.6
52.5°	631.2	741.2	873.6	1005.9	1128.1	1238.0	1329.7	1386.7	1431.5	1462.0	1486.5
55°	521.3	627.2	751.4	875.6	995.7	1099.6	1174.9	1217.7	1252.3	1270.6	1284.9
57.5°	425.6	523.3	637.4	751.4	855.2	940.8	999.8	1042.6	1058.9	1073.1	1071.1
60°	334.0	425.6	529.4	627.2	716.8	786.0	828.8	853.2	865.4	871.5	867.4
62.5°	262.7	346.2	425.6	511.1	576.3	635.3	676.1	676.1	682.1	684.2	690.3
65°	195.5	258.6	327.8	391.0	443.9	482.6	505.0	511.1	519.3	517.2	513.1
67.5°	144.6	191.4	242.3	289.1	325.8	350.2	366.5	380.8	378.8	374.7	372.6
70°	99.8	130.3	175.1	203.6	230.1	254.6	258.6	260.6	262.7	264.7	260.6
72.5°	69.3	91.6	116.1	140.5	156.8	167.0	177.2	179.2	179.2	179.2	177.2
75°	34.6	46.8	69.3	79.4	93.7	97.8	105.9	105.9	112.0	103.8	101.8
77.5°	30.5	36.7	48.9	57.0	63.1	69.3	71.2	77.4	75.3	71.2	73.3
80°	18.3	22.4	30.5	34.6	42.7	44.8	46.8	48.9	46.8	48.9	48.9
82.5°	14.2	16.3	20.4	20.4	26.5	26.5	28.5	28.5	30.5	30.5	30.5
85°	8.1	14.2	12.2	24.4	16.3	16.3	20.4	24.4	20.4	20.4	24.4
87.5°	8.1	8.1	6.1	8.1	8.1	8.1	10.2	12.2	12.2	14.2	12.2
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: P249509

CATALOG NUMBER: LSR8B100D010 EC8B1009730 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3793.6	3793.6	3793.6	3793.6
2.5°	3799.7	3803.8	3797.7	3795.6
5°	3805.8	3805.8	3801.8	3801.8
7.5°	3805.8	3805.8	3799.7	3795.6
10°	3789.5	3789.5	3783.4	3779.3
12.5°	3759.0	3759.0	3756.9	3750.8
15°	3720.3	3720.3	3712.1	3706.0
17.5°	3667.3	3671.4	3661.3	3661.3
20°	3610.3	3608.3	3600.2	3596.1
22.5°	3551.3	3547.2	3545.2	3533.0
25°	3488.2	3484.1	3477.9	3471.9
27.5°	3380.2	3378.2	3372.1	3363.9
30°	3215.3	3213.2	3205.1	3205.1
32.5°	3001.5	2999.4	2991.3	2993.4
35°	2779.5	2787.7	2783.6	2775.5
37.5°	2594.2	2600.3	2604.4	2600.3
40°	2439.5	2457.8	2459.8	2463.9
42.5°	2274.5	2299.0	2307.1	2311.2
45°	2077.0	2099.4	2117.7	2113.7
47.5°	1875.4	1891.7	1908.0	1895.8
50°	1682.0	1692.1	1698.3	1698.3
52.5°	1498.7	1498.7	1496.7	1498.7
55°	1289.0	1289.0	1280.8	1284.9
57.5°	1069.0	1073.1	1067.0	1056.8
60°	865.4	855.2	851.2	845.1
62.5°	674.0	674.0	659.8	678.1
65°	505.0	498.9	492.8	490.7
67.5°	366.5	364.5	358.4	356.3
70°	258.6	250.5	248.4	244.3
72.5°	173.1	173.1	169.0	169.0
75°	105.9	95.7	93.7	95.7
77.5°	73.3	71.2	71.2	69.3
80°	48.9	46.8	50.9	44.8
82.5°	30.5	32.6	30.5	32.6
85°	20.4	24.4	22.4	22.4
87.5°	12.2	12.2	12.2	12.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)