

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: P248677

Luminaire Tested: **LSR8B60D010 EC8B60840 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B60D010 EC8B60840 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6142.0 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

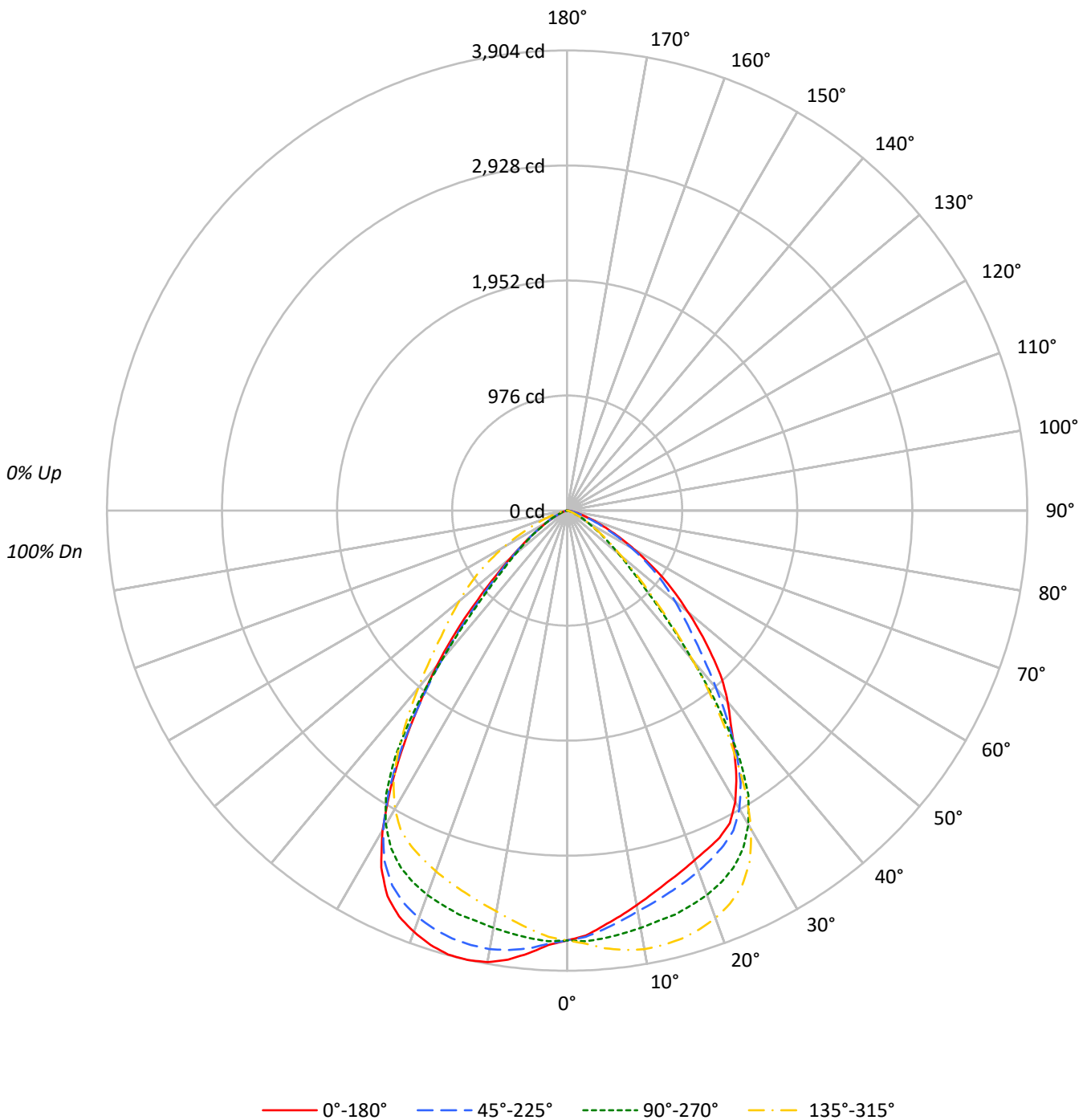
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	112438	112438	112438	112438
5°	109451	112704	116728	112704
10°	106423	112554	121810	112554
15°	104299	113222	124475	113222
20°	103588	113872	124797	113872
25°	104134	113644	122790	113644
30°	101557	109484	111449	109484
35°	92895	95507	90617	95507
40°	85286	66435	69378	66435
45°	75780	40530	46897	40530
50°	64144	27076	30065	27076
55°	53127	18472	19526	18472
60°	40519	12298	12409	12298
65°	28712	7661	7012	7661
70°	20710	5130	4661	5130
75°	13153	2550	2121	2550
80°	9181	1900	1580	1900
85°	8208	0	637	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.1	5.7
10°-20°	1005.0	16.4
20°-30°	1521.8	24.8
30°-40°	1525.2	24.8
40°-50°	957.8	15.6
50°-60°	510.4	8.3
60°-70°	209.9	3.4
70°-80°	55.4	0.9
80°-90°	9.4	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°	2873.9	46.8
0°-40°	4399.1	71.6
0°-60°	5867.3	95.5
0°-90°	6142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6142.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3646	3646	3646	3646	3646	
5°	3536	3641	3771	3641	3536	333
15°	3267	3547	3899	3547	3267	924
25°	3061	3340	3609	3340	3061	1404
35°	2468	2537	2407	2537	2468	1546
45°	1738	929	1075	929	1738	1336
55°	988	344	363	344	988	881
65°	394	105	96	105	394	408
75°	110	21	18	21	110	125
85°	23	0	2	0	23	25
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°	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3
2.5°	3608.9	3605.3	3603.6	3607.2	3608.9	3616.0	3614.3	3617.8	3617.8	3619.6	3623.2
5°	3535.9	3534.1	3535.9	3535.9	3543.1	3550.2	3548.4	3553.8	3557.3	3566.2	3569.7
7.5°	3468.3	3468.3	3466.5	3473.6	3477.2	3487.9	3486.0	3495.0	3500.3	3509.2	3521.7
10°	3398.8	3398.8	3400.6	3405.9	3407.8	3423.7	3423.7	3436.2	3443.3	3452.3	3468.3
12.5°	3331.2	3331.2	3341.9	3338.3	3345.4	3357.9	3363.2	3375.7	3386.4	3404.2	3420.2
15°	3267.1	3267.1	3270.7	3279.5	3284.9	3300.9	3309.8	3324.1	3336.5	3354.3	3377.5
17.5°	3211.9	3210.1	3211.9	3222.6	3233.3	3247.5	3254.6	3272.4	3284.9	3308.0	3329.4
20°	3156.7	3160.3	3160.3	3169.2	3176.3	3194.1	3201.2	3220.8	3235.0	3256.4	3281.4
22.5°	3108.6	3106.9	3106.9	3119.3	3124.7	3140.7	3147.8	3165.6	3181.6	3199.4	3222.6
25°	3060.6	3057.0	3064.1	3065.9	3069.4	3087.2	3092.6	3105.0	3121.1	3137.1	3160.3
27.5°	2989.3	2985.8	2987.6	2994.7	3000.0	3014.2	3017.8	3030.3	3042.7	3057.0	3076.6
30°	2852.2	2848.7	2846.9	2859.4	2864.7	2875.4	2880.7	2902.1	2905.6	2921.7	2935.9
32.5°	2670.6	2668.9	2672.4	2683.1	2688.4	2702.7	2709.8	2722.3	2731.1	2740.1	2754.3
35°	2467.7	2464.1	2467.7	2478.4	2478.4	2490.8	2496.2	2501.5	2499.7	2501.5	2498.0
37.5°	2279.0	2277.1	2279.0	2284.3	2279.0	2284.3	2279.0	2268.3	2248.7	2227.3	2205.9
40°	2118.7	2120.5	2109.8	2117.0	2097.3	2093.8	2074.2	2047.5	2008.3	1965.6	1905.1
42.5°	1947.8	1942.5	1935.4	1938.9	1922.9	1910.4	1878.3	1844.6	1794.6	1723.5	1650.4
45°	1737.7	1735.9	1732.4	1730.6	1719.9	1707.4	1680.7	1641.6	1586.4	1513.4	1426.1
47.5°	1533.0	1527.6	1527.6	1529.4	1516.9	1515.1	1493.7	1460.0	1411.9	1340.7	1249.9
50°	1337.1	1335.3	1338.9	1346.0	1337.1	1333.5	1319.3	1296.2	1253.4	1192.9	1107.4
52.5°	1160.8	1159.1	1162.6	1171.5	1167.9	1171.5	1157.3	1139.5	1111.0	1052.2	977.5
55°	988.2	988.2	988.2	998.8	998.8	998.8	991.7	981.1	954.3	911.6	842.2
57.5°	808.3	810.1	820.8	822.5	820.8	824.4	822.5	811.8	794.1	763.8	710.4
60°	657.0	657.0	662.3	667.7	665.9	667.7	667.7	662.3	644.5	619.6	576.9
62.5°	519.9	525.2	521.6	525.2	532.3	525.2	521.6	518.1	505.7	489.6	454.0
65°	393.5	397.1	397.1	398.8	395.2	397.1	389.9	384.6	377.5	359.7	336.5
67.5°	299.1	299.1	299.1	299.1	297.3	295.6	293.8	288.4	276.0	268.9	243.9
70°	229.7	219.0	219.0	219.0	219.0	220.8	215.5	208.3	204.8	192.3	174.5
72.5°	153.1	156.7	153.1	153.1	149.6	151.3	144.2	140.6	137.1	130.0	119.3
75°	110.4	101.5	105.0	106.8	101.5	105.0	97.9	90.8	90.8	85.4	80.1
77.5°	71.2	69.5	71.2	73.0	71.2	69.5	65.9	62.3	62.3	60.5	55.2
80°	51.7	49.8	49.8	49.8	48.1	49.8	46.3	46.3	42.7	41.0	37.4
82.5°	33.9	33.9	32.0	33.9	32.0	33.9	28.5	28.5	28.5	26.7	23.2
85°	23.2	19.6	19.6	21.4	17.8	21.4	19.6	17.8	16.0	16.0	14.2
87.5°	10.7	12.5	10.7	12.5	10.7	10.7	12.5	10.7	10.7	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3
2.5°	3628.5	3630.3	3630.3	3637.4	3641.0	3642.7	3642.7	3657.0	3651.7	3655.3	3658.8
5°	3576.9	3587.5	3591.1	3591.1	3610.7	3617.8	3624.9	3641.0	3642.7	3653.4	3665.9
7.5°	3527.0	3539.5	3546.6	3562.6	3575.1	3587.5	3608.9	3619.6	3630.3	3644.6	3660.5
10°	3478.9	3493.2	3507.4	3519.9	3539.5	3555.5	3569.7	3594.6	3607.2	3626.7	3648.1
12.5°	3432.7	3452.3	3464.7	3486.0	3507.4	3521.7	3543.1	3566.2	3585.8	3605.3	3630.3
15°	3391.7	3414.9	3429.1	3452.3	3475.4	3495.0	3518.1	3546.6	3560.9	3584.0	3607.2
17.5°	3347.2	3372.2	3390.0	3411.3	3439.8	3461.1	3480.8	3509.2	3527.0	3551.9	3578.7
20°	3300.9	3325.8	3347.2	3368.6	3397.1	3418.4	3441.6	3470.1	3489.6	3514.5	3535.9
22.5°	3245.7	3268.9	3292.0	3316.9	3345.4	3363.2	3390.0	3414.9	3436.2	3459.4	3480.8
25°	3174.5	3203.0	3220.8	3243.9	3267.1	3286.6	3315.1	3340.1	3357.9	3379.3	3398.8
27.5°	3090.8	3112.2	3126.4	3146.0	3169.2	3187.0	3208.3	3233.3	3251.1	3270.7	3284.9
30°	2948.4	2968.0	2980.5	2994.7	3017.8	3033.9	3051.7	3074.8	3087.2	3101.5	3114.0
32.5°	2761.4	2777.5	2784.6	2795.3	2811.3	2827.3	2841.6	2861.1	2866.5	2875.4	2875.4
35°	2490.8	2494.4	2492.6	2496.2	2503.3	2512.2	2524.6	2537.1	2544.2	2544.2	2538.9
37.5°	2173.9	2152.6	2129.4	2111.6	2106.3	2102.7	2109.8	2115.1	2122.3	2125.8	2117.0
40°	1844.6	1796.5	1744.8	1698.5	1666.5	1652.3	1646.9	1650.4	1650.4	1662.9	1662.9
42.5°	1561.5	1486.6	1410.1	1340.7	1294.3	1258.8	1242.7	1242.7	1244.5	1253.4	1258.8
45°	1326.4	1232.0	1143.0	1066.5	1002.4	956.1	934.7	929.4	927.6	931.1	943.6
47.5°	1146.6	1048.7	956.1	861.7	794.1	747.8	728.2	721.0	713.9	721.0	722.9
50°	1006.0	904.5	806.6	712.2	640.9	600.0	575.1	564.4	562.6	562.6	566.2
52.5°	877.7	783.4	685.5	589.3	514.5	475.4	452.2	446.9	439.8	446.9	446.9
55°	756.7	662.3	566.2	475.4	413.0	372.1	350.7	343.6	340.0	345.4	345.4
57.5°	625.0	544.8	455.8	373.9	311.6	283.1	267.0	258.2	256.3	259.9	256.3
60°	512.8	445.1	368.5	293.8	245.7	215.5	203.0	199.4	195.8	199.4	199.4
62.5°	405.9	349.0	286.6	229.7	188.7	167.4	153.1	153.1	151.3	151.3	153.1
65°	300.9	256.3	211.9	163.8	131.8	115.7	105.0	105.0	103.3	105.0	103.3
67.5°	219.0	188.7	153.1	119.3	94.4	85.4	78.3	73.0	76.6	73.0	71.2
70°	160.3	135.3	110.4	90.8	73.0	64.1	58.8	56.9	53.4	53.4	53.4
72.5°	106.8	90.8	74.7	58.8	48.1	39.1	37.4	33.9	30.3	32.0	35.6
75°	71.2	60.5	53.4	42.7	32.0	32.0	21.4	21.4	17.8	21.4	16.0
77.5°	49.8	41.0	32.0	26.7	21.4	19.6	14.2	14.2	12.5	12.5	12.5
80°	35.6	30.3	23.2	19.6	14.2	14.2	12.5	10.7	8.9	8.9	10.7
82.5°	21.4	16.0	16.0	14.2	8.9	7.1	5.3	7.1	3.6	3.6	3.6
85°	12.5	10.7	8.9	5.3	3.6	3.6	1.8	0.0	1.8	1.8	0.0
87.5°	7.1	3.6	3.6	1.8	0.0	1.8	1.8	0.0	0.0	0.0	3.6
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°	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3
2.5°	3667.7	3665.9	3669.5	3669.5	3680.2	3678.3	3683.7	3683.7	3680.2	3681.9	3689.0
5°	3680.2	3685.5	3696.1	3705.1	3721.1	3728.2	3737.1	3746.1	3747.8	3753.2	3758.5
7.5°	3680.2	3698.0	3710.4	3726.4	3747.8	3760.3	3779.8	3795.9	3803.0	3811.9	3822.6
10°	3673.0	3690.8	3714.0	3731.8	3758.5	3778.1	3797.6	3822.6	3833.3	3847.5	3861.8
12.5°	3658.8	3678.3	3703.3	3726.4	3756.7	3774.5	3799.4	3822.6	3838.6	3858.2	3874.2
15°	3637.4	3660.5	3683.7	3706.8	3738.9	3760.3	3783.4	3810.1	3826.1	3847.5	3861.8
17.5°	3603.6	3628.5	3649.9	3671.2	3701.5	3726.4	3747.8	3772.7	3788.8	3806.6	3826.1
20°	3562.6	3585.8	3608.9	3626.7	3657.0	3678.3	3701.5	3724.7	3737.1	3740.7	3771.0
22.5°	3511.0	3527.0	3544.8	3573.3	3591.1	3610.7	3632.1	3653.4	3665.9	3685.5	3696.1
25°	3425.5	3441.6	3461.1	3473.6	3495.0	3511.0	3532.4	3555.5	3562.6	3576.9	3587.5
27.5°	3306.3	3315.1	3324.1	3334.7	3347.2	3356.1	3368.6	3379.3	3386.4	3393.5	3400.6
30°	3117.5	3117.5	3117.5	3110.4	3115.7	3121.1	3122.8	3121.1	3121.1	3119.3	3119.3
32.5°	2868.3	2854.0	2838.0	2823.8	2818.4	2811.3	2807.7	2802.4	2793.5	2788.2	2789.9
35°	2531.7	2499.7	2480.1	2462.3	2448.1	2437.4	2432.1	2426.7	2425.0	2417.9	2410.7
37.5°	2111.6	2088.4	2074.2	2063.5	2051.1	2040.4	2042.1	2044.0	2049.2	2045.7	2047.5
40°	1666.5	1661.1	1666.5	1654.0	1650.4	1654.0	1662.9	1675.4	1682.5	1689.6	1702.1
42.5°	1267.7	1276.5	1289.1	1289.1	1294.3	1301.5	1312.1	1331.8	1342.4	1354.9	1369.2
45°	954.3	965.0	981.1	986.3	989.9	998.8	1011.3	1027.3	1034.4	1045.1	1057.6
47.5°	735.3	742.4	751.3	760.2	769.1	772.7	785.2	785.2	794.1	801.2	804.7
50°	573.3	580.4	587.5	592.9	596.5	601.8	605.3	610.7	612.4	616.0	617.8
52.5°	448.6	457.6	457.6	461.1	466.5	471.8	470.0	471.8	473.6	473.6	478.9
55°	350.7	350.7	356.1	356.1	359.7	357.8	359.7	359.7	359.7	359.7	361.4
57.5°	261.7	263.5	268.9	265.3	263.5	267.0	263.5	267.0	265.3	268.9	263.5
60°	201.2	201.2	203.0	203.0	204.8	204.8	204.8	203.0	203.0	201.2	201.2
62.5°	151.3	153.1	154.9	153.1	153.1	153.1	151.3	151.3	149.6	147.7	147.7
65°	101.5	99.7	103.3	99.7	101.5	101.5	99.7	101.5	96.1	97.9	96.1
67.5°	73.0	71.2	69.5	71.2	69.5	67.6	67.6	69.5	71.2	65.9	65.9
70°	48.1	49.8	48.1	49.8	51.7	51.7	49.8	48.1	49.8	46.3	48.1
72.5°	30.3	30.3	30.3	30.3	30.3	32.0	32.0	32.0	28.5	28.5	26.7
75°	14.2	19.6	16.0	14.2	19.6	19.6	17.8	17.8	16.0	16.0	16.0
77.5°	14.2	10.7	10.7	10.7	10.7	10.7	10.7	10.7	8.9	10.7	8.9
80°	7.1	7.1	7.1	5.3	7.1	7.1	8.9	7.1	7.1	5.3	8.9
82.5°	3.6	3.6	3.6	0.0	1.8	3.6	3.6	1.8	3.6	3.6	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



TEST NUMBER: P248677

CATALOG NUMBER: LSR8B60D010 EC8B60840 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3
2.5°	3687.3	3685.5	3687.3	3689.0	3687.3	3685.5	3687.3	3689.0	3681.9	3680.2	3683.7
5°	3765.6	3765.6	3769.1	3771.0	3769.1	3765.6	3765.6	3758.5	3753.2	3747.8	3746.1
7.5°	3833.3	3836.8	3840.4	3842.1	3840.4	3836.8	3833.3	3822.6	3811.9	3803.0	3795.9
10°	3874.2	3879.6	3886.7	3890.2	3886.7	3879.6	3874.2	3861.8	3847.5	3833.3	3822.6
12.5°	3892.0	3897.4	3906.2	3904.5	3906.2	3897.4	3892.0	3874.2	3858.2	3838.6	3822.6
15°	3879.6	3886.7	3895.5	3899.1	3895.5	3886.7	3879.6	3861.8	3847.5	3826.1	3810.1
17.5°	3840.4	3851.1	3856.4	3861.8	3856.4	3851.1	3840.4	3826.1	3806.6	3788.8	3772.7
20°	3786.9	3794.1	3801.2	3803.0	3801.2	3794.1	3786.9	3771.0	3740.7	3737.1	3724.7
22.5°	3710.4	3715.8	3731.8	3726.4	3731.8	3715.8	3710.4	3696.1	3685.5	3665.9	3653.4
25°	3600.0	3605.3	3607.2	3608.9	3607.2	3605.3	3600.0	3587.5	3576.9	3562.6	3555.5
27.5°	3409.5	3409.5	3413.0	3414.9	3413.0	3409.5	3409.5	3400.6	3393.5	3386.4	3379.3
30°	3121.1	3121.1	3121.1	3130.0	3121.1	3121.1	3121.1	3119.3	3119.3	3121.1	3121.1
32.5°	2788.2	2784.6	2781.0	2784.6	2781.0	2784.6	2788.2	2789.9	2788.2	2793.5	2802.4
35°	2410.7	2408.9	2414.3	2407.2	2414.3	2408.9	2410.7	2410.7	2417.9	2425.0	2426.7
37.5°	2049.2	2045.7	2052.8	2045.7	2052.8	2045.7	2049.2	2047.5	2045.7	2049.2	2044.0
40°	1705.7	1709.2	1709.2	1723.5	1709.2	1709.2	1705.7	1702.1	1689.6	1682.5	1675.4
42.5°	1376.3	1387.0	1383.4	1394.1	1383.4	1387.0	1376.3	1369.2	1354.9	1342.4	1331.8
45°	1064.7	1071.8	1071.8	1075.4	1071.8	1071.8	1064.7	1057.6	1045.1	1034.4	1027.3
47.5°	817.2	817.2	817.2	819.0	817.2	817.2	817.2	804.7	801.2	794.1	785.2
50°	621.4	623.1	625.0	626.7	625.0	623.1	621.4	617.8	616.0	612.4	610.7
52.5°	477.2	478.9	475.4	478.9	475.4	478.9	477.2	478.9	473.6	473.6	471.8
55°	361.4	359.7	361.4	363.2	361.4	359.7	361.4	361.4	359.7	359.7	359.7
57.5°	265.3	261.7	261.7	261.7	261.7	261.7	265.3	263.5	268.9	265.3	267.0
60°	197.6	199.4	199.4	201.2	199.4	199.4	197.6	201.2	201.2	203.0	203.0
62.5°	146.0	151.3	147.7	151.3	147.7	151.3	146.0	147.7	147.7	149.6	151.3
65°	94.4	94.4	94.4	96.1	94.4	94.4	94.4	96.1	97.9	96.1	101.5
67.5°	64.1	65.9	69.5	67.6	69.5	65.9	64.1	65.9	65.9	71.2	69.5
70°	51.7	46.3	46.3	51.7	46.3	46.3	51.7	48.1	46.3	49.8	48.1
72.5°	30.3	26.7	30.3	30.3	30.3	26.7	30.3	26.7	28.5	28.5	32.0
75°	16.0	14.2	12.5	17.8	12.5	14.2	16.0	16.0	16.0	16.0	17.8
77.5°	10.7	8.9	12.5	12.5	12.5	8.9	10.7	8.9	10.7	8.9	10.7
80°	5.3	7.1	5.3	8.9	5.3	7.1	5.3	8.9	5.3	7.1	7.1
82.5°	1.8	3.6	3.6	3.6	3.6	3.6	1.8	1.8	3.6	3.6	1.8
85°	0.0	3.6	1.8	1.8	1.8	3.6	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.0	0.0	1.8	0.0	0.0	1.8	0.0	0.0	0.0	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



TEST NUMBER: P248677

CATALOG NUMBER: LSR8B60D010 EC8B60840 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3
2.5°	3683.7	3678.3	3680.2	3669.5	3669.5	3665.9	3667.7	3658.8	3655.3	3651.7	3657.0
5°	3737.1	3728.2	3721.1	3705.1	3696.1	3685.5	3680.2	3665.9	3653.4	3642.7	3641.0
7.5°	3779.8	3760.3	3747.8	3726.4	3710.4	3698.0	3680.2	3660.5	3644.6	3630.3	3619.6
10°	3797.6	3778.1	3758.5	3731.8	3714.0	3690.8	3673.0	3648.1	3626.7	3607.2	3594.6
12.5°	3799.4	3774.5	3756.7	3726.4	3703.3	3678.3	3658.8	3630.3	3605.3	3585.8	3566.2
15°	3783.4	3760.3	3738.9	3706.8	3683.7	3660.5	3637.4	3607.2	3584.0	3560.9	3546.6
17.5°	3747.8	3726.4	3701.5	3671.2	3649.9	3628.5	3603.6	3578.7	3551.9	3527.0	3509.2
20°	3701.5	3678.3	3657.0	3626.7	3608.9	3585.8	3562.6	3535.9	3514.5	3489.6	3470.1
22.5°	3632.1	3610.7	3591.1	3573.3	3544.8	3527.0	3511.0	3480.8	3459.4	3436.2	3414.9
25°	3532.4	3511.0	3495.0	3473.6	3461.1	3441.6	3425.5	3398.8	3379.3	3357.9	3340.1
27.5°	3368.6	3356.1	3347.2	3334.7	3324.1	3315.1	3306.3	3284.9	3270.7	3251.1	3233.3
30°	3122.8	3121.1	3115.7	3110.4	3117.5	3117.5	3117.5	3114.0	3101.5	3087.2	3074.8
32.5°	2807.7	2811.3	2818.4	2823.8	2838.0	2854.0	2868.3	2875.4	2875.4	2866.5	2861.1
35°	2432.1	2437.4	2448.1	2462.3	2480.1	2499.7	2531.7	2538.9	2544.2	2544.2	2537.1
37.5°	2042.1	2040.4	2051.1	2063.5	2074.2	2088.4	2111.6	2117.0	2125.8	2122.3	2115.1
40°	1662.9	1654.0	1650.4	1654.0	1666.5	1661.1	1666.5	1662.9	1662.9	1650.4	1650.4
42.5°	1312.1	1301.5	1294.3	1289.1	1289.1	1276.5	1267.7	1258.8	1253.4	1244.5	1242.7
45°	1011.3	998.8	989.9	986.3	981.1	965.0	954.3	943.6	931.1	927.6	929.4
47.5°	785.2	772.7	769.1	760.2	751.3	742.4	735.3	722.9	721.0	713.9	721.0
50°	605.3	601.8	596.5	592.9	587.5	580.4	573.3	566.2	562.6	562.6	564.4
52.5°	470.0	471.8	466.5	461.1	457.6	457.6	448.6	446.9	446.9	439.8	446.9
55°	359.7	357.8	359.7	356.1	356.1	350.7	350.7	345.4	345.4	340.0	343.6
57.5°	263.5	267.0	263.5	265.3	268.9	263.5	261.7	256.3	259.9	256.3	258.2
60°	204.8	204.8	204.8	203.0	203.0	201.2	201.2	199.4	199.4	195.8	199.4
62.5°	151.3	153.1	153.1	153.1	154.9	153.1	151.3	153.1	151.3	151.3	153.1
65°	99.7	101.5	101.5	99.7	103.3	99.7	101.5	103.3	105.0	103.3	105.0
67.5°	67.6	67.6	69.5	71.2	69.5	71.2	73.0	71.2	73.0	76.6	73.0
70°	49.8	51.7	51.7	49.8	48.1	49.8	48.1	53.4	53.4	53.4	56.9
72.5°	32.0	32.0	30.3	30.3	30.3	30.3	30.3	35.6	32.0	30.3	33.9
75°	17.8	19.6	19.6	14.2	16.0	19.6	14.2	16.0	21.4	17.8	21.4
77.5°	10.7	10.7	10.7	10.7	10.7	10.7	14.2	12.5	12.5	12.5	14.2
80°	8.9	7.1	7.1	5.3	7.1	7.1	7.1	10.7	8.9	8.9	10.7
82.5°	3.6	3.6	1.8	0.0	3.6	3.6	3.6	3.6	3.6	3.6	7.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	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



TEST NUMBER: P248677

CATALOG NUMBER: LSR8B60D010 EC8B60840 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3
2.5°	3642.7	3642.7	3641.0	3637.4	3630.3	3630.3	3628.5	3623.2	3619.6	3617.8	3617.8
5°	3624.9	3617.8	3610.7	3591.1	3591.1	3587.5	3576.9	3569.7	3566.2	3557.3	3553.8
7.5°	3608.9	3587.5	3575.1	3562.6	3546.6	3539.5	3527.0	3521.7	3509.2	3500.3	3495.0
10°	3569.7	3555.5	3539.5	3519.9	3507.4	3493.2	3478.9	3468.3	3452.3	3443.3	3436.2
12.5°	3543.1	3521.7	3507.4	3486.0	3464.7	3452.3	3432.7	3420.2	3404.2	3386.4	3375.7
15°	3518.1	3495.0	3475.4	3452.3	3429.1	3414.9	3391.7	3377.5	3354.3	3336.5	3324.1
17.5°	3480.8	3461.1	3439.8	3411.3	3390.0	3372.2	3347.2	3329.4	3308.0	3284.9	3272.4
20°	3441.6	3418.4	3397.1	3368.6	3347.2	3325.8	3300.9	3281.4	3256.4	3235.0	3220.8
22.5°	3390.0	3363.2	3345.4	3316.9	3292.0	3268.9	3245.7	3222.6	3199.4	3181.6	3165.6
25°	3315.1	3286.6	3267.1	3243.9	3220.8	3203.0	3174.5	3160.3	3137.1	3121.1	3105.0
27.5°	3208.3	3187.0	3169.2	3146.0	3126.4	3112.2	3090.8	3076.6	3057.0	3042.7	3030.3
30°	3051.7	3033.9	3017.8	2994.7	2980.5	2968.0	2948.4	2935.9	2921.7	2905.6	2902.1
32.5°	2841.6	2827.3	2811.3	2795.3	2784.6	2777.5	2761.4	2754.3	2740.1	2731.1	2722.3
35°	2524.6	2512.2	2503.3	2496.2	2492.6	2494.4	2490.8	2498.0	2501.5	2499.7	2501.5
37.5°	2109.8	2102.7	2106.3	2111.6	2129.4	2152.6	2173.9	2205.9	2227.3	2248.7	2268.3
40°	1646.9	1652.3	1666.5	1698.5	1744.8	1796.5	1844.6	1905.1	1965.6	2008.3	2047.5
42.5°	1242.7	1258.8	1294.3	1340.7	1410.1	1486.6	1561.5	1650.4	1723.5	1794.6	1844.6
45°	934.7	956.1	1002.4	1066.5	1143.0	1232.0	1326.4	1426.1	1513.4	1586.4	1641.6
47.5°	728.2	747.8	794.1	861.7	956.1	1048.7	1146.6	1249.9	1340.7	1411.9	1460.0
50°	575.1	600.0	640.9	712.2	806.6	904.5	1006.0	1107.4	1192.9	1253.4	1296.2
52.5°	452.2	475.4	514.5	589.3	685.5	783.4	877.7	977.5	1052.2	1111.0	1139.5
55°	350.7	372.1	413.0	475.4	566.2	662.3	756.7	842.2	911.6	954.3	981.1
57.5°	267.0	283.1	311.6	373.9	455.8	544.8	625.0	710.4	763.8	794.1	811.8
60°	203.0	215.5	245.7	293.8	368.5	445.1	512.8	576.9	619.6	644.5	662.3
62.5°	153.1	167.4	188.7	229.7	286.6	349.0	405.9	454.0	489.6	505.7	518.1
65°	105.0	115.7	131.8	163.8	211.9	256.3	300.9	336.5	359.7	377.5	384.6
67.5°	78.3	85.4	94.4	119.3	153.1	188.7	219.0	243.9	268.9	276.0	288.4
70°	58.8	64.1	73.0	90.8	110.4	135.3	160.3	174.5	192.3	204.8	208.3
72.5°	37.4	39.1	48.1	58.8	74.7	90.8	106.8	119.3	130.0	137.1	140.6
75°	21.4	32.0	32.0	42.7	53.4	60.5	71.2	80.1	85.4	90.8	90.8
77.5°	14.2	19.6	21.4	26.7	32.0	41.0	49.8	55.2	60.5	62.3	62.3
80°	12.5	14.2	14.2	19.6	23.2	30.3	35.6	37.4	41.0	42.7	46.3
82.5°	5.3	7.1	8.9	14.2	16.0	16.0	21.4	23.2	26.7	28.5	28.5
85°	1.8	3.6	3.6	5.3	8.9	10.7	12.5	14.2	16.0	16.0	17.8
87.5°	1.8	1.8	0.0	1.8	3.6	3.6	7.1	7.1	7.1	10.7	10.7
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: P248677

CATALOG NUMBER: LSR8B60D010 EC8B60840 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3	3646.3
2.5°	3614.3	3616.0	3608.9	3607.2	3603.6	3605.3	3608.9
5°	3548.4	3550.2	3543.1	3535.9	3535.9	3534.1	3535.9
7.5°	3486.0	3487.9	3477.2	3473.6	3466.5	3468.3	3468.3
10°	3423.7	3423.7	3407.8	3405.9	3400.6	3398.8	3398.8
12.5°	3363.2	3357.9	3345.4	3338.3	3341.9	3331.2	3331.2
15°	3309.8	3300.9	3284.9	3279.5	3270.7	3267.1	3267.1
17.5°	3254.6	3247.5	3233.3	3222.6	3211.9	3210.1	3211.9
20°	3201.2	3194.1	3176.3	3169.2	3160.3	3160.3	3156.7
22.5°	3147.8	3140.7	3124.7	3119.3	3106.9	3106.9	3108.6
25°	3092.6	3087.2	3069.4	3065.9	3064.1	3057.0	3060.6
27.5°	3017.8	3014.2	3000.0	2994.7	2987.6	2985.8	2989.3
30°	2880.7	2875.4	2864.7	2859.4	2846.9	2848.7	2852.2
32.5°	2709.8	2702.7	2688.4	2683.1	2672.4	2668.9	2670.6
35°	2496.2	2490.8	2478.4	2478.4	2467.7	2464.1	2467.7
37.5°	2279.0	2284.3	2279.0	2284.3	2279.0	2277.1	2279.0
40°	2074.2	2093.8	2097.3	2117.0	2109.8	2120.5	2118.7
42.5°	1878.3	1910.4	1922.9	1938.9	1935.4	1942.5	1947.8
45°	1680.7	1707.4	1719.9	1730.6	1732.4	1735.9	1737.7
47.5°	1493.7	1515.1	1516.9	1529.4	1527.6	1527.6	1533.0
50°	1319.3	1333.5	1337.1	1346.0	1338.9	1335.3	1337.1
52.5°	1157.3	1171.5	1167.9	1171.5	1162.6	1159.1	1160.8
55°	991.7	998.8	998.8	998.8	988.2	988.2	988.2
57.5°	822.5	824.4	820.8	822.5	820.8	810.1	808.3
60°	667.7	667.7	665.9	667.7	662.3	657.0	657.0
62.5°	521.6	525.2	532.3	525.2	521.6	525.2	519.9
65°	389.9	397.1	395.2	398.8	397.1	397.1	393.5
67.5°	293.8	295.6	297.3	299.1	299.1	299.1	299.1
70°	215.5	220.8	219.0	219.0	219.0	219.0	229.7
72.5°	144.2	151.3	149.6	153.1	153.1	156.7	153.1
75°	97.9	105.0	101.5	106.8	105.0	101.5	110.4
77.5°	65.9	69.5	71.2	73.0	71.2	69.5	71.2
80°	46.3	49.8	48.1	49.8	49.8	49.8	51.7
82.5°	28.5	33.9	32.0	33.9	32.0	33.9	33.9
85°	19.6	21.4	17.8	21.4	19.6	19.6	23.2
87.5°	12.5	10.7	10.7	12.5	10.7	12.5	10.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)