

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: P248886

Luminaire Tested: **LSR8B80D010 EC8B80835 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248886
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: LSR8B80D010 EC8B80835 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6396.0 lumens
Efficiency: N/A
Efficacy: 86.0 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

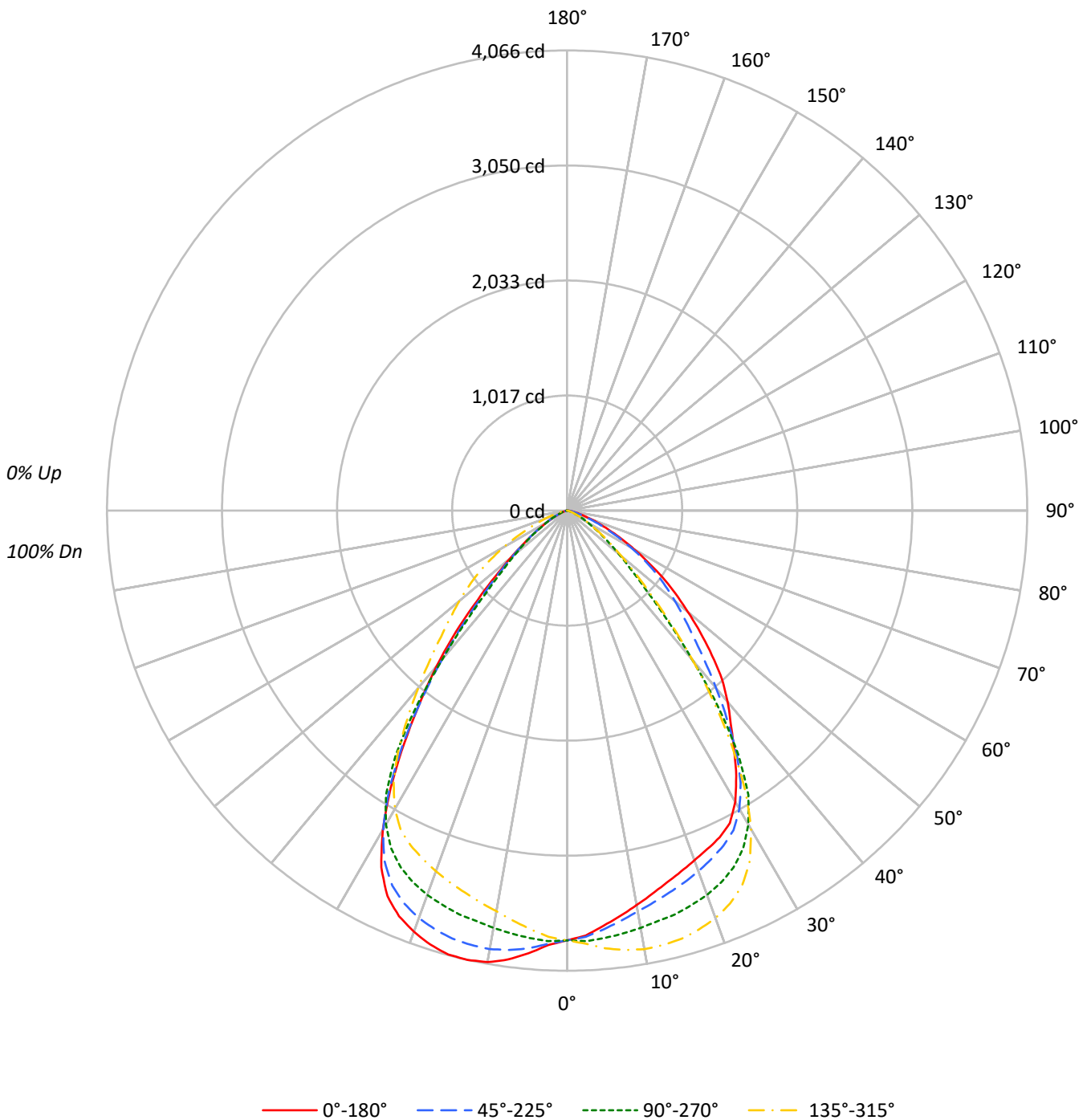
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	117089	117089	117089	117089
5°	113979	117362	121554	117362
10°	110826	117210	126848	117210
15°	108612	117905	129625	117905
20°	107871	118581	129959	118581
25°	108438	118343	127869	118343
30°	105759	114009	116060	114009
35°	96734	99456	94363	99456
40°	88812	69184	72248	69184
45°	78915	42205	48834	42205
50°	66797	28194	31307	28194
55°	55321	19236	20333	19236
60°	42196	12809	12920	12809
65°	29894	7982	7304	7982
70°	21566	5346	4851	5346
75°	13689	2657	2204	2657
80°	9554	1971	1634	1971
85°	8527	0	637	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.4	5.7
10°-20°	1046.6	16.4
20°-30°	1584.8	24.8
30°-40°	1588.3	24.8
40°-50°	997.4	15.6
50°-60°	531.5	8.3
60°-70°	218.6	3.4
70°-80°	57.7	0.9
80°-90°	9.8	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°	2992.7	46.8
0°-40°	4581.1	71.6
0°-60°	6109.9	95.5
0°-90°	6396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6396.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3797	3797	3797	3797	3797	
5°	3682	3792	3927	3792	3682	347
15°	3402	3693	4060	3693	3402	962
25°	3187	3478	3758	3478	3187	1462
35°	2570	2642	2507	2642	2570	1610
45°	1810	968	1120	968	1810	1392
55°	1029	358	378	358	1029	917
65°	410	109	100	109	410	425
75°	115	22	18	22	115	130
85°	24	0	2	0	24	26
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°	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1
2.5°	3758.2	3754.4	3752.6	3756.4	3758.2	3765.6	3763.8	3767.4	3767.4	3769.3	3773.0
5°	3682.2	3680.3	3682.2	3682.2	3689.6	3697.0	3695.1	3700.7	3704.4	3713.7	3717.4
7.5°	3611.7	3611.7	3609.8	3617.2	3621.0	3632.1	3630.2	3639.5	3645.1	3654.3	3667.3
10°	3539.4	3539.4	3541.2	3546.8	3548.7	3565.3	3565.3	3578.3	3585.7	3595.0	3611.7
12.5°	3469.0	3469.0	3480.1	3476.4	3483.8	3496.7	3502.3	3515.3	3526.4	3545.0	3561.7
15°	3402.2	3402.2	3405.9	3415.1	3420.7	3437.4	3446.7	3461.5	3474.5	3493.1	3517.2
17.5°	3344.7	3342.9	3344.7	3355.9	3367.0	3381.8	3389.2	3407.7	3420.7	3444.8	3467.1
20°	3287.2	3291.0	3291.0	3300.2	3307.6	3326.2	3333.6	3354.0	3368.8	3391.0	3417.1
22.5°	3237.2	3235.4	3235.4	3248.3	3253.9	3270.5	3277.9	3296.5	3313.2	3331.7	3355.9
25°	3187.1	3183.4	3190.9	3192.7	3196.4	3214.9	3220.5	3233.4	3250.2	3266.9	3291.0
27.5°	3112.9	3109.3	3111.1	3118.5	3124.1	3138.9	3142.6	3155.6	3168.6	3183.4	3203.8
30°	2970.2	2966.5	2964.7	2977.6	2983.2	2994.3	2999.8	3022.1	3025.8	3042.5	3057.3
32.5°	2781.1	2779.2	2783.0	2794.0	2799.6	2814.5	2821.9	2834.9	2844.1	2853.4	2868.2
35°	2569.7	2566.0	2569.7	2580.9	2580.9	2593.9	2599.4	2604.9	2603.1	2604.9	2601.3
37.5°	2373.2	2371.3	2373.2	2378.7	2373.2	2378.7	2373.2	2362.1	2341.7	2319.4	2297.1
40°	2206.3	2208.2	2197.1	2204.5	2184.0	2180.4	2160.0	2132.1	2091.4	2046.9	1983.9
42.5°	2028.4	2022.8	2015.4	2019.1	2002.4	1989.4	1956.0	1920.8	1868.9	1794.8	1718.7
45°	1809.6	1807.7	1804.0	1802.2	1791.0	1778.1	1750.2	1709.4	1652.0	1576.0	1485.1
47.5°	1596.3	1590.8	1590.8	1592.6	1579.6	1577.8	1555.5	1520.3	1470.3	1396.1	1301.5
50°	1392.4	1390.5	1394.3	1401.7	1392.4	1388.7	1373.9	1349.8	1305.3	1242.2	1153.2
52.5°	1208.8	1207.0	1210.7	1220.0	1216.2	1220.0	1205.2	1186.6	1156.9	1095.7	1017.9
55°	1029.0	1029.0	1029.0	1040.1	1040.1	1040.1	1032.7	1021.6	993.8	949.3	877.0
57.5°	841.7	843.6	854.7	856.6	854.7	858.5	856.6	845.4	826.9	795.4	739.8
60°	684.2	684.2	689.7	695.3	693.4	695.3	695.3	689.7	671.2	645.2	600.7
62.5°	541.4	546.9	543.2	546.9	554.3	546.9	543.2	539.5	526.6	509.9	472.8
65°	409.7	413.5	413.5	415.3	411.6	413.5	406.1	400.5	393.1	374.6	350.4
67.5°	311.5	311.5	311.5	311.5	309.6	307.8	305.9	300.4	287.4	280.0	254.0
70°	239.2	228.0	228.0	228.0	228.0	229.9	224.4	217.0	213.2	200.2	181.7
72.5°	159.4	163.2	159.4	159.4	155.8	157.6	150.2	146.4	142.8	135.4	124.2
75°	114.9	105.7	109.4	111.3	105.7	109.4	102.0	94.6	94.6	89.0	83.4
77.5°	74.2	72.3	74.2	76.0	74.2	72.3	68.6	64.9	64.9	63.0	57.5
80°	53.8	51.9	51.9	51.9	50.1	51.9	48.2	48.2	44.5	42.7	38.9
82.5°	35.3	35.3	33.3	35.3	33.3	35.3	29.7	29.7	29.7	27.8	24.1
85°	24.1	20.4	20.4	22.3	18.5	22.3	20.4	18.5	16.7	16.7	14.8
87.5°	11.1	13.0	11.1	13.0	11.1	11.1	13.0	11.1	11.1	7.4	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1
2.5°	3778.6	3780.4	3780.4	3787.9	3791.5	3793.4	3793.4	3808.2	3802.7	3806.4	3810.1
5°	3724.8	3735.9	3739.6	3739.6	3760.0	3767.4	3774.8	3791.5	3793.4	3804.5	3817.5
7.5°	3672.9	3685.8	3693.3	3710.0	3722.9	3735.9	3758.2	3769.3	3780.4	3795.3	3811.9
10°	3622.8	3637.7	3652.5	3665.5	3685.8	3702.5	3717.4	3743.3	3756.4	3776.7	3798.9
12.5°	3574.6	3595.0	3608.0	3630.2	3652.5	3667.3	3689.6	3713.7	3734.1	3754.4	3780.4
15°	3532.0	3556.1	3570.9	3595.0	3619.1	3639.5	3663.6	3693.3	3708.1	3732.2	3756.4
17.5°	3485.6	3511.6	3530.2	3552.4	3582.0	3604.3	3624.7	3654.3	3672.9	3698.8	3726.7
20°	3437.4	3463.4	3485.6	3507.9	3537.6	3559.8	3583.9	3613.6	3633.9	3659.9	3682.2
22.5°	3380.0	3404.1	3428.1	3454.1	3483.8	3502.3	3530.2	3556.1	3578.3	3602.4	3624.7
25°	3305.8	3335.5	3354.0	3378.1	3402.2	3422.6	3452.2	3478.2	3496.7	3519.0	3539.4
27.5°	3218.6	3240.9	3255.7	3276.1	3300.2	3318.8	3341.0	3367.0	3385.5	3405.9	3420.7
30°	3070.3	3090.7	3103.7	3118.5	3142.6	3159.3	3177.9	3201.9	3214.9	3229.8	3242.8
32.5°	2875.6	2892.3	2899.7	2910.9	2927.6	2944.2	2959.1	2979.5	2985.0	2994.3	2994.3
35°	2593.9	2597.5	2595.7	2599.4	2606.8	2616.1	2629.0	2642.0	2649.4	2649.4	2643.9
37.5°	2263.8	2241.6	2217.5	2198.9	2193.4	2189.6	2197.1	2202.6	2210.1	2213.7	2204.5
40°	1920.8	1870.8	1817.0	1768.7	1735.4	1720.6	1715.0	1718.7	1718.7	1731.7	1731.7
42.5°	1626.0	1548.1	1468.4	1396.1	1347.9	1310.9	1294.1	1294.1	1296.0	1305.3	1310.9
45°	1381.3	1283.0	1190.3	1110.6	1043.8	995.6	973.4	967.8	966.0	969.7	982.6
47.5°	1194.0	1092.1	995.6	897.4	826.9	778.7	758.3	750.9	743.5	750.9	752.8
50°	1047.6	941.9	839.9	741.6	667.4	624.8	598.8	587.7	585.9	585.9	589.6
52.5°	914.0	815.8	713.8	613.7	535.8	495.1	470.9	465.4	458.0	465.4	465.4
55°	787.9	689.7	589.6	495.1	430.1	387.5	365.2	357.8	354.1	359.7	359.7
57.5°	650.8	567.3	474.7	389.4	324.5	294.8	278.1	268.9	266.9	270.7	266.9
60°	534.0	463.5	383.8	305.9	255.9	224.4	211.4	207.7	203.9	207.7	207.7
62.5°	422.7	363.4	298.5	239.2	196.5	174.3	159.4	159.4	157.6	157.6	159.4
65°	313.3	266.9	220.6	170.6	137.2	120.5	109.4	109.4	107.5	109.4	107.5
67.5°	228.0	196.5	159.4	124.2	98.3	89.0	81.6	76.0	79.7	76.0	74.2
70°	166.9	140.9	114.9	94.6	76.0	66.8	61.2	59.3	55.6	55.6	55.6
72.5°	111.3	94.6	77.8	61.2	50.1	40.8	38.9	35.3	31.5	33.3	37.1
75°	74.2	63.0	55.6	44.5	33.3	33.3	22.3	22.3	18.5	22.3	16.7
77.5°	51.9	42.7	33.3	27.8	22.3	20.4	14.8	14.8	13.0	13.0	13.0
80°	37.1	31.5	24.1	20.4	14.8	14.8	13.0	11.1	9.2	9.2	11.1
82.5°	22.3	16.7	16.7	14.8	9.2	7.4	5.6	7.4	3.7	3.7	3.7
85°	13.0	11.1	9.2	5.6	3.7	3.7	1.8	0.0	1.8	1.8	0.0
87.5°	7.4	3.7	3.7	1.8	0.0	1.8	1.8	0.0	0.0	0.0	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1
2.5°	3819.4	3817.5	3821.2	3821.2	3832.4	3830.5	3836.0	3836.0	3832.4	3834.2	3841.6
5°	3832.4	3837.9	3849.0	3858.3	3874.9	3882.4	3891.7	3901.0	3902.8	3908.4	3913.9
7.5°	3832.4	3850.9	3863.9	3880.5	3902.8	3915.8	3936.1	3952.9	3960.3	3969.5	3980.6
10°	3824.9	3843.4	3867.5	3886.1	3913.9	3934.3	3954.7	3980.6	3991.8	4006.6	4021.5
12.5°	3810.1	3830.5	3856.4	3880.5	3912.0	3930.6	3956.5	3980.6	3997.4	4017.7	4034.4
15°	3787.9	3811.9	3836.0	3860.1	3893.5	3915.8	3939.9	3967.7	3984.4	4006.6	4021.5
17.5°	3752.6	3778.6	3800.8	3823.0	3854.6	3880.5	3902.8	3928.7	3945.5	3964.0	3984.4
20°	3710.0	3734.1	3758.2	3776.7	3808.2	3830.5	3854.6	3878.7	3891.7	3895.4	3926.9
22.5°	3656.2	3672.9	3691.4	3721.1	3739.6	3760.0	3782.3	3804.5	3817.5	3837.9	3849.0
25°	3567.2	3583.9	3604.3	3617.2	3639.5	3656.2	3678.4	3702.5	3710.0	3724.8	3735.9
27.5°	3443.0	3452.2	3461.5	3472.6	3485.6	3494.9	3507.9	3519.0	3526.4	3533.8	3541.2
30°	3246.4	3246.4	3246.4	3239.0	3244.6	3250.2	3252.0	3250.2	3250.2	3248.3	3248.3
32.5°	2986.9	2972.1	2955.4	2940.5	2935.0	2927.6	2923.8	2918.3	2909.0	2903.5	2905.3
35°	2636.4	2603.1	2582.7	2564.2	2549.4	2538.2	2532.6	2527.1	2525.2	2517.8	2510.4
37.5°	2198.9	2174.8	2160.0	2148.9	2135.9	2124.7	2126.6	2128.5	2134.0	2130.3	2132.1
40°	1735.4	1729.8	1735.4	1722.4	1718.7	1722.4	1731.7	1744.7	1752.1	1759.5	1772.5
42.5°	1320.1	1329.3	1342.4	1342.4	1347.9	1355.3	1366.4	1386.9	1397.9	1410.9	1425.8
45°	993.8	1004.9	1021.6	1027.1	1030.9	1040.1	1053.1	1069.8	1077.2	1088.3	1101.3
47.5°	765.7	773.1	782.4	791.7	800.9	804.7	817.6	817.6	826.9	834.3	838.0
50°	597.0	604.4	611.8	617.4	621.1	626.7	630.4	635.9	637.8	641.5	643.3
52.5°	467.2	476.5	476.5	480.2	485.7	491.3	489.5	491.3	493.1	493.1	498.7
55°	365.2	365.2	370.8	370.8	374.6	372.6	374.6	374.6	374.6	374.6	376.4
57.5°	272.5	274.4	280.0	276.3	274.4	278.1	274.4	278.1	276.3	280.0	274.4
60°	209.5	209.5	211.4	211.4	213.2	213.2	213.2	211.4	211.4	209.5	209.5
62.5°	157.6	159.4	161.3	159.4	159.4	159.4	157.6	157.6	155.8	153.8	153.8
65°	105.7	103.9	107.5	103.9	105.7	105.7	103.9	105.7	100.1	102.0	100.1
67.5°	76.0	74.2	72.3	74.2	72.3	70.4	70.4	72.3	74.2	68.6	68.6
70°	50.1	51.9	50.1	51.9	53.8	53.8	51.9	50.1	51.9	48.2	50.1
72.5°	31.5	31.5	31.5	31.5	31.5	33.3	33.3	33.3	29.7	29.7	27.8
75°	14.8	20.4	16.7	14.8	20.4	20.4	18.5	18.5	16.7	16.7	16.7
77.5°	14.8	11.1	11.1	11.1	11.1	11.1	11.1	11.1	9.2	11.1	9.2
80°	7.4	7.4	7.4	5.6	7.4	7.4	9.2	7.4	7.4	5.6	9.2
82.5°	3.7	3.7	3.7	0.0	1.8	3.7	3.7	1.8	3.7	3.7	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: P248886

CATALOG NUMBER: LSR8B80D010 EC8B80835 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1
2.5°	3839.8	3837.9	3839.8	3841.6	3839.8	3837.9	3839.8	3841.6	3834.2	3832.4	3836.0
5°	3921.3	3921.3	3925.0	3926.9	3925.0	3921.3	3921.3	3913.9	3908.4	3902.8	3901.0
7.5°	3991.8	3995.5	3999.2	4001.0	3999.2	3995.5	3991.8	3980.6	3969.5	3960.3	3952.9
10°	4034.4	4040.0	4047.4	4051.1	4047.4	4040.0	4034.4	4021.5	4006.6	3991.8	3980.6
12.5°	4053.0	4058.6	4067.8	4066.0	4067.8	4058.6	4053.0	4034.4	4017.7	3997.4	3980.6
15°	4040.0	4047.4	4056.6	4060.4	4056.6	4047.4	4040.0	4021.5	4006.6	3984.4	3967.7
17.5°	3999.2	4010.3	4015.9	4021.5	4015.9	4010.3	3999.2	3984.4	3964.0	3945.5	3928.7
20°	3943.6	3951.0	3958.4	3960.3	3958.4	3951.0	3943.6	3926.9	3895.4	3891.7	3878.7
22.5°	3863.9	3869.4	3886.1	3880.5	3886.1	3869.4	3863.9	3849.0	3837.9	3817.5	3804.5
25°	3748.9	3754.4	3756.4	3758.2	3756.4	3754.4	3748.9	3735.9	3724.8	3710.0	3702.5
27.5°	3550.5	3550.5	3554.2	3556.1	3554.2	3550.5	3550.5	3541.2	3533.8	3526.4	3519.0
30°	3250.2	3250.2	3250.2	3259.5	3250.2	3250.2	3250.2	3248.3	3248.3	3250.2	3250.2
32.5°	2903.5	2899.7	2896.1	2899.7	2896.1	2899.7	2903.5	2905.3	2903.5	2909.0	2918.3
35°	2510.4	2508.5	2514.1	2506.7	2514.1	2508.5	2510.4	2510.4	2517.8	2525.2	2527.1
37.5°	2134.0	2130.3	2137.7	2130.3	2137.7	2130.3	2134.0	2132.1	2130.3	2134.0	2128.5
40°	1776.2	1779.9	1779.9	1794.8	1779.9	1779.9	1776.2	1772.5	1759.5	1752.1	1744.7
42.5°	1433.2	1444.3	1440.6	1451.7	1440.6	1444.3	1433.2	1425.8	1410.9	1397.9	1386.9
45°	1108.7	1116.2	1116.2	1119.8	1116.2	1116.2	1108.7	1101.3	1088.3	1077.2	1069.8
47.5°	851.0	851.0	851.0	852.9	851.0	851.0	851.0	838.0	834.3	826.9	817.6
50°	647.1	648.9	650.8	652.6	650.8	648.9	647.1	643.3	641.5	637.8	635.9
52.5°	496.9	498.7	495.1	498.7	495.1	498.7	496.9	498.7	493.1	493.1	491.3
55°	376.4	374.6	376.4	378.2	376.4	374.6	376.4	376.4	374.6	374.6	374.6
57.5°	276.3	272.5	272.5	272.5	272.5	272.5	276.3	274.4	280.0	276.3	278.1
60°	205.8	207.7	207.7	209.5	207.7	207.7	205.8	209.5	209.5	211.4	211.4
62.5°	152.0	157.6	153.8	157.6	153.8	157.6	152.0	153.8	153.8	155.8	157.6
65°	98.3	98.3	98.3	100.1	98.3	98.3	98.3	100.1	102.0	100.1	105.7
67.5°	66.8	68.6	72.3	70.4	72.3	68.6	66.8	68.6	68.6	74.2	72.3
70°	53.8	48.2	48.2	53.8	48.2	48.2	53.8	50.1	48.2	51.9	50.1
72.5°	31.5	27.8	31.5	31.5	31.5	27.8	31.5	27.8	29.7	29.7	33.3
75°	16.7	14.8	13.0	18.5	13.0	14.8	16.7	16.7	16.7	16.7	18.5
77.5°	11.1	9.2	13.0	13.0	13.0	9.2	11.1	9.2	11.1	9.2	11.1
80°	5.6	7.4	5.6	9.2	5.6	7.4	5.6	9.2	5.6	7.4	7.4
82.5°	1.8	3.7	3.7	3.7	3.7	3.7	1.8	1.8	3.7	3.7	1.8
85°	0.0	3.7	1.8	1.8	1.8	3.7	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: P248886

CATALOG NUMBER: LSR8B80D010 EC8B80835 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1
2.5°	3836.0	3830.5	3832.4	3821.2	3821.2	3817.5	3819.4	3810.1	3806.4	3802.7	3808.2
5°	3891.7	3882.4	3874.9	3858.3	3849.0	3837.9	3832.4	3817.5	3804.5	3793.4	3791.5
7.5°	3936.1	3915.8	3902.8	3880.5	3863.9	3850.9	3832.4	3811.9	3795.3	3780.4	3769.3
10°	3954.7	3934.3	3913.9	3886.1	3867.5	3843.4	3824.9	3798.9	3776.7	3756.4	3743.3
12.5°	3956.5	3930.6	3912.0	3880.5	3856.4	3830.5	3810.1	3780.4	3754.4	3734.1	3713.7
15°	3939.9	3915.8	3893.5	3860.1	3836.0	3811.9	3787.9	3756.4	3732.2	3708.1	3693.3
17.5°	3902.8	3880.5	3854.6	3823.0	3800.8	3778.6	3752.6	3726.7	3698.8	3672.9	3654.3
20°	3854.6	3830.5	3808.2	3776.7	3758.2	3734.1	3710.0	3682.2	3659.9	3633.9	3613.6
22.5°	3782.3	3760.0	3739.6	3721.1	3691.4	3672.9	3656.2	3624.7	3602.4	3578.3	3556.1
25°	3678.4	3656.2	3639.5	3617.2	3604.3	3583.9	3567.2	3539.4	3519.0	3496.7	3478.2
27.5°	3507.9	3494.9	3485.6	3472.6	3461.5	3452.2	3443.0	3420.7	3405.9	3385.5	3367.0
30°	3252.0	3250.2	3244.6	3239.0	3246.4	3246.4	3246.4	3242.8	3229.8	3214.9	3201.9
32.5°	2923.8	2927.6	2935.0	2940.5	2955.4	2972.1	2986.9	2994.3	2994.3	2985.0	2979.5
35°	2532.6	2538.2	2549.4	2564.2	2582.7	2603.1	2636.4	2643.9	2649.4	2649.4	2642.0
37.5°	2126.6	2124.7	2135.9	2148.9	2160.0	2174.8	2198.9	2204.5	2213.7	2210.1	2202.6
40°	1731.7	1722.4	1718.7	1722.4	1735.4	1729.8	1735.4	1731.7	1731.7	1718.7	1718.7
42.5°	1366.4	1355.3	1347.9	1342.4	1342.4	1329.3	1320.1	1310.9	1305.3	1296.0	1294.1
45°	1053.1	1040.1	1030.9	1027.1	1021.6	1004.9	993.8	982.6	969.7	966.0	967.8
47.5°	817.6	804.7	800.9	791.7	782.4	773.1	765.7	752.8	750.9	743.5	750.9
50°	630.4	626.7	621.1	617.4	611.8	604.4	597.0	589.6	585.9	585.9	587.7
52.5°	489.5	491.3	485.7	480.2	476.5	476.5	467.2	465.4	465.4	458.0	465.4
55°	374.6	372.6	374.6	370.8	370.8	365.2	365.2	359.7	359.7	354.1	357.8
57.5°	274.4	278.1	274.4	276.3	280.0	274.4	272.5	266.9	270.7	266.9	268.9
60°	213.2	213.2	213.2	211.4	211.4	209.5	209.5	207.7	207.7	203.9	207.7
62.5°	157.6	159.4	159.4	159.4	161.3	159.4	157.6	159.4	157.6	157.6	159.4
65°	103.9	105.7	105.7	103.9	107.5	103.9	105.7	107.5	109.4	107.5	109.4
67.5°	70.4	70.4	72.3	74.2	72.3	74.2	76.0	74.2	76.0	79.7	76.0
70°	51.9	53.8	53.8	51.9	50.1	51.9	50.1	55.6	55.6	55.6	59.3
72.5°	33.3	33.3	31.5	31.5	31.5	31.5	31.5	37.1	33.3	31.5	35.3
75°	18.5	20.4	20.4	14.8	16.7	20.4	14.8	16.7	22.3	18.5	22.3
77.5°	11.1	11.1	11.1	11.1	11.1	11.1	14.8	13.0	13.0	13.0	14.8
80°	9.2	7.4	7.4	5.6	7.4	7.4	7.4	11.1	9.2	9.2	11.1
82.5°	3.7	3.7	1.8	0.0	3.7	3.7	3.7	3.7	3.7	3.7	7.4
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	3.7	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: P248886

CATALOG NUMBER: LSR8B80D010 EC8B80835 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1
2.5°	3793.4	3793.4	3791.5	3787.9	3780.4	3780.4	3778.6	3773.0	3769.3	3767.4	3767.4
5°	3774.8	3767.4	3760.0	3739.6	3739.6	3735.9	3724.8	3717.4	3713.7	3704.4	3700.7
7.5°	3758.2	3735.9	3722.9	3710.0	3693.3	3685.8	3672.9	3667.3	3654.3	3645.1	3639.5
10°	3717.4	3702.5	3685.8	3665.5	3652.5	3637.7	3622.8	3611.7	3595.0	3585.7	3578.3
12.5°	3689.6	3667.3	3652.5	3630.2	3608.0	3595.0	3574.6	3561.7	3545.0	3526.4	3515.3
15°	3663.6	3639.5	3619.1	3595.0	3570.9	3556.1	3532.0	3517.2	3493.1	3474.5	3461.5
17.5°	3624.7	3604.3	3582.0	3552.4	3530.2	3511.6	3485.6	3467.1	3444.8	3420.7	3407.7
20°	3583.9	3559.8	3537.6	3507.9	3485.6	3463.4	3437.4	3417.1	3391.0	3368.8	3354.0
22.5°	3530.2	3502.3	3483.8	3454.1	3428.1	3404.1	3380.0	3355.9	3331.7	3313.2	3296.5
25°	3452.2	3422.6	3402.2	3378.1	3354.0	3335.5	3305.8	3291.0	3266.9	3250.2	3233.4
27.5°	3341.0	3318.8	3300.2	3276.1	3255.7	3240.9	3218.6	3203.8	3183.4	3168.6	3155.6
30°	3177.9	3159.3	3142.6	3118.5	3103.7	3090.7	3070.3	3057.3	3042.5	3025.8	3022.1
32.5°	2959.1	2944.2	2927.6	2910.9	2899.7	2892.3	2875.6	2868.2	2853.4	2844.1	2834.9
35°	2629.0	2616.1	2606.8	2599.4	2595.7	2597.5	2593.9	2601.3	2604.9	2603.1	2604.9
37.5°	2197.1	2189.6	2193.4	2198.9	2217.5	2241.6	2263.8	2297.1	2319.4	2341.7	2362.1
40°	1715.0	1720.6	1735.4	1768.7	1817.0	1870.8	1920.8	1983.9	2046.9	2091.4	2132.1
42.5°	1294.1	1310.9	1347.9	1396.1	1468.4	1548.1	1626.0	1718.7	1794.8	1868.9	1920.8
45°	973.4	995.6	1043.8	1110.6	1190.3	1283.0	1381.3	1485.1	1576.0	1652.0	1709.4
47.5°	758.3	778.7	826.9	897.4	995.6	1092.1	1194.0	1301.5	1396.1	1470.3	1520.3
50°	598.8	624.8	667.4	741.6	839.9	941.9	1047.6	1153.2	1242.2	1305.3	1349.8
52.5°	470.9	495.1	535.8	613.7	713.8	815.8	914.0	1017.9	1095.7	1156.9	1186.6
55°	365.2	387.5	430.1	495.1	589.6	689.7	787.9	877.0	949.3	993.8	1021.6
57.5°	278.1	294.8	324.5	389.4	474.7	567.3	650.8	739.8	795.4	826.9	845.4
60°	211.4	224.4	255.9	305.9	383.8	463.5	534.0	600.7	645.2	671.2	689.7
62.5°	159.4	174.3	196.5	239.2	298.5	363.4	422.7	472.8	509.9	526.6	539.5
65°	109.4	120.5	137.2	170.6	220.6	266.9	313.3	350.4	374.6	393.1	400.5
67.5°	81.6	89.0	98.3	124.2	159.4	196.5	228.0	254.0	280.0	287.4	300.4
70°	61.2	66.8	76.0	94.6	114.9	140.9	166.9	181.7	200.2	213.2	217.0
72.5°	38.9	40.8	50.1	61.2	77.8	94.6	111.3	124.2	135.4	142.8	146.4
75°	22.3	33.3	33.3	44.5	55.6	63.0	74.2	83.4	89.0	94.6	94.6
77.5°	14.8	20.4	22.3	27.8	33.3	42.7	51.9	57.5	63.0	64.9	64.9
80°	13.0	14.8	14.8	20.4	24.1	31.5	37.1	38.9	42.7	44.5	48.2
82.5°	5.6	7.4	9.2	14.8	16.7	16.7	22.3	24.1	27.8	29.7	29.7
85°	1.8	3.7	3.7	5.6	9.2	11.1	13.0	14.8	16.7	16.7	18.5
87.5°	1.8	1.8	0.0	1.8	3.7	3.7	7.4	7.4	7.4	11.1	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: P248886

CATALOG NUMBER: LSR8B80D010 EC8B80835 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1	3797.1
2.5°	3763.8	3765.6	3758.2	3756.4	3752.6	3754.4	3758.2
5°	3695.1	3697.0	3689.6	3682.2	3682.2	3680.3	3682.2
7.5°	3630.2	3632.1	3621.0	3617.2	3609.8	3611.7	3611.7
10°	3565.3	3565.3	3548.7	3546.8	3541.2	3539.4	3539.4
12.5°	3502.3	3496.7	3483.8	3476.4	3480.1	3469.0	3469.0
15°	3446.7	3437.4	3420.7	3415.1	3405.9	3402.2	3402.2
17.5°	3389.2	3381.8	3367.0	3355.9	3344.7	3342.9	3344.7
20°	3333.6	3326.2	3307.6	3300.2	3291.0	3291.0	3287.2
22.5°	3277.9	3270.5	3253.9	3248.3	3235.4	3235.4	3237.2
25°	3220.5	3214.9	3196.4	3192.7	3190.9	3183.4	3187.1
27.5°	3142.6	3138.9	3124.1	3118.5	3111.1	3109.3	3112.9
30°	2999.8	2994.3	2983.2	2977.6	2964.7	2966.5	2970.2
32.5°	2821.9	2814.5	2799.6	2794.0	2783.0	2779.2	2781.1
35°	2599.4	2593.9	2580.9	2580.9	2569.7	2566.0	2569.7
37.5°	2373.2	2378.7	2373.2	2378.7	2373.2	2371.3	2373.2
40°	2160.0	2180.4	2184.0	2204.5	2197.1	2208.2	2206.3
42.5°	1956.0	1989.4	2002.4	2019.1	2015.4	2022.8	2028.4
45°	1750.2	1778.1	1791.0	1802.2	1804.0	1807.7	1809.6
47.5°	1555.5	1577.8	1579.6	1592.6	1590.8	1590.8	1596.3
50°	1373.9	1388.7	1392.4	1401.7	1394.3	1390.5	1392.4
52.5°	1205.2	1220.0	1216.2	1220.0	1210.7	1207.0	1208.8
55°	1032.7	1040.1	1040.1	1040.1	1029.0	1029.0	1029.0
57.5°	856.6	858.5	854.7	856.6	854.7	843.6	841.7
60°	695.3	695.3	693.4	695.3	689.7	684.2	684.2
62.5°	543.2	546.9	554.3	546.9	543.2	546.9	541.4
65°	406.1	413.5	411.6	415.3	413.5	413.5	409.7
67.5°	305.9	307.8	309.6	311.5	311.5	311.5	311.5
70°	224.4	229.9	228.0	228.0	228.0	228.0	239.2
72.5°	150.2	157.6	155.8	159.4	159.4	163.2	159.4
75°	102.0	109.4	105.7	111.3	109.4	105.7	114.9
77.5°	68.6	72.3	74.2	76.0	74.2	72.3	74.2
80°	48.2	51.9	50.1	51.9	51.9	51.9	53.8
82.5°	29.7	35.3	33.3	35.3	33.3	35.3	35.3
85°	20.4	22.3	18.5	22.3	20.4	20.4	24.1
87.5°	13.0	11.1	11.1	13.0	11.1	13.0	11.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)