

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: P248932

Luminaire Tested: **LSR8B90D010 EC8B90935 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248932
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: LSR8B90D010 EC8B90935 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6143.0 lumens
Efficiency: N/A
Efficacy: 71.3 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

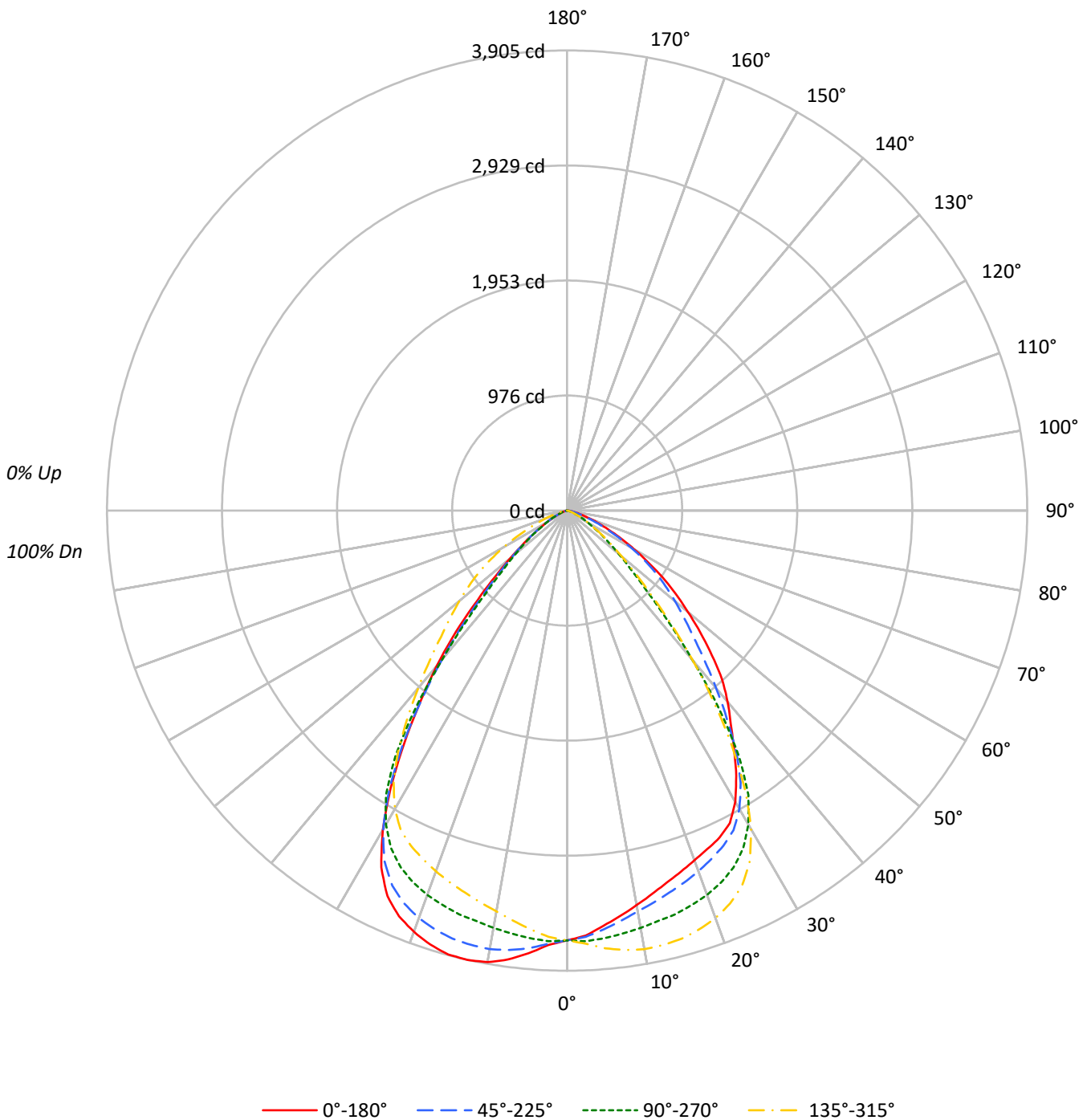
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	112457	112457	112457	112457
5°	109469	112722	116746	112722
10°	106442	112573	121829	112573
15°	104315	113241	124498	113241
20°	103605	113889	124816	113889
25°	104151	113661	122810	113661
30°	101575	109501	111467	109501
35°	92910	95522	90628	95522
40°	85302	66447	69390	66447
45°	75793	40535	46902	40535
50°	64154	27081	30069	27081
55°	53132	18478	19532	18478
60°	40525	12298	12409	12298
65°	28712	7661	7019	7661
70°	20710	5139	4661	5139
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°	1005.2	16.4
20°-30°	1522.1	24.8
30°-40°	1525.5	24.8
40°-50°	957.9	15.6
50°-60°	510.5	8.3
60°-70°	209.9	3.4
70°-80°	55.5	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°	2874.4	46.8
0°-40°	4399.8	71.6
0°-60°	5868.2	95.5
0°-90°	6143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6143.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3647	3647	3647	3647	3647	
5°	3536	3642	3772	3642	3536	334
15°	3268	3547	3900	3547	3268	924
25°	3061	3341	3610	3341	3061	1404
35°	2468	2538	2408	2538	2468	1546
45°	1738	930	1076	930	1738	1337
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°	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9
2.5°	3609.5	3605.9	3604.2	3607.8	3609.5	3616.6	3614.9	3618.4	3618.4	3620.2	3623.7
5°	3536.5	3534.7	3536.5	3536.5	3543.6	3550.7	3549.0	3554.3	3557.9	3566.8	3570.3
7.5°	3468.9	3468.9	3467.0	3474.1	3477.7	3488.4	3486.6	3495.5	3500.9	3509.8	3522.2
10°	3399.4	3399.4	3401.1	3406.5	3408.3	3424.3	3424.3	3436.8	3443.9	3452.8	3468.9
12.5°	3331.7	3331.7	3342.4	3338.8	3346.0	3358.4	3363.8	3376.2	3386.9	3404.7	3420.8
15°	3267.6	3267.6	3271.2	3280.1	3285.4	3301.5	3310.3	3324.6	3337.1	3354.9	3378.1
17.5°	3212.4	3210.6	3212.4	3223.1	3233.8	3248.0	3255.1	3272.9	3285.4	3308.6	3330.0
20°	3157.2	3160.8	3160.8	3169.7	3176.8	3194.6	3201.7	3221.3	3235.6	3256.9	3281.9
22.5°	3109.1	3107.4	3107.4	3119.8	3125.2	3141.2	3148.3	3166.1	3182.1	3199.9	3223.1
25°	3061.1	3057.5	3064.6	3066.4	3069.9	3087.7	3093.1	3105.5	3121.6	3137.6	3160.8
27.5°	2989.8	2986.3	2988.0	2995.2	3000.5	3014.7	3018.3	3030.8	3043.2	3057.5	3077.1
30°	2852.7	2849.2	2847.4	2859.9	2865.2	2875.8	2881.2	2902.6	2906.1	2922.2	2936.4
32.5°	2671.0	2669.3	2672.9	2683.5	2688.9	2703.1	2710.3	2722.7	2731.6	2740.5	2754.7
35°	2468.1	2464.5	2468.1	2478.8	2478.8	2491.3	2496.6	2501.9	2500.1	2501.9	2498.4
37.5°	2279.4	2277.5	2279.4	2284.6	2279.4	2284.6	2279.4	2268.7	2249.1	2227.7	2206.3
40°	2119.1	2120.8	2110.2	2117.3	2097.7	2094.1	2074.6	2047.8	2008.7	1965.9	1905.4
42.5°	1948.1	1942.8	1935.7	1939.2	1923.2	1910.7	1878.6	1844.9	1794.9	1723.8	1650.7
45°	1738.0	1736.2	1732.6	1730.9	1720.2	1707.7	1681.0	1641.8	1586.6	1513.6	1426.3
47.5°	1533.2	1527.9	1527.9	1529.6	1517.1	1515.4	1494.0	1460.2	1412.1	1340.9	1250.1
50°	1337.3	1335.5	1339.1	1346.2	1337.3	1333.8	1319.5	1296.4	1253.7	1193.1	1107.6
52.5°	1161.0	1159.2	1162.8	1171.7	1168.1	1171.7	1157.5	1139.7	1111.2	1052.4	977.6
55°	988.3	988.3	988.3	998.9	998.9	998.9	991.8	981.2	954.5	911.7	842.3
57.5°	808.5	810.2	820.9	822.7	820.9	824.5	822.7	812.0	794.2	764.0	710.5
60°	657.1	657.1	662.4	667.8	666.0	667.8	667.8	662.4	644.6	619.7	577.0
62.5°	520.0	525.3	521.7	525.3	532.4	525.3	521.7	518.2	505.7	489.7	454.1
65°	393.5	397.1	397.1	398.9	395.3	397.1	390.0	384.7	377.5	359.7	336.6
67.5°	299.2	299.2	299.2	299.2	297.4	295.6	293.8	288.5	276.0	268.9	243.9
70°	229.7	219.0	219.0	219.0	219.0	220.8	215.5	208.4	204.8	192.3	174.5
72.5°	153.1	156.7	153.1	153.1	149.6	151.4	144.2	140.7	137.1	130.0	119.3
75°	110.4	101.5	105.0	106.9	101.5	105.0	97.9	90.8	90.8	85.5	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	16.1	16.1	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°	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9
2.5°	3629.1	3630.9	3630.9	3638.0	3641.6	3643.3	3643.3	3657.6	3652.3	3655.8	3659.4
5°	3577.5	3588.1	3591.7	3591.7	3611.3	3618.4	3625.5	3641.6	3643.3	3654.0	3666.5
7.5°	3527.6	3540.0	3547.2	3563.2	3575.7	3588.1	3609.5	3620.2	3630.9	3645.1	3661.1
10°	3479.5	3493.8	3508.0	3520.5	3540.0	3556.1	3570.3	3595.2	3607.8	3627.3	3648.7
12.5°	3433.2	3452.8	3465.3	3486.6	3508.0	3522.2	3543.6	3566.8	3586.4	3605.9	3630.9
15°	3392.3	3415.4	3429.7	3452.8	3476.0	3495.5	3518.7	3547.2	3561.4	3584.6	3607.8
17.5°	3347.7	3372.7	3390.5	3411.8	3440.4	3461.7	3481.3	3509.8	3527.6	3552.5	3579.3
20°	3301.5	3326.4	3347.7	3369.1	3397.6	3419.0	3442.1	3470.6	3490.2	3515.1	3536.5
22.5°	3246.3	3269.4	3292.5	3317.4	3346.0	3363.8	3390.5	3415.4	3436.8	3459.9	3481.3
25°	3175.0	3203.5	3221.3	3244.4	3267.6	3287.2	3315.7	3340.6	3358.4	3379.8	3399.4
27.5°	3091.3	3112.7	3126.9	3146.5	3169.7	3187.5	3208.8	3233.8	3251.6	3271.2	3285.4
30°	2948.8	2968.5	2980.9	2995.2	3018.3	3034.4	3052.2	3075.3	3087.7	3102.0	3114.5
32.5°	2761.9	2777.9	2785.0	2795.7	2811.8	2827.8	2842.0	2861.6	2867.0	2875.8	2875.8
35°	2491.3	2494.8	2493.0	2496.6	2503.7	2512.6	2525.0	2537.5	2544.6	2544.6	2539.3
37.5°	2174.2	2152.9	2129.8	2111.9	2106.6	2103.0	2110.2	2115.5	2122.6	2126.2	2117.3
40°	1844.9	1796.8	1745.1	1698.8	1666.7	1652.5	1647.2	1650.7	1650.7	1663.2	1663.2
42.5°	1561.7	1486.9	1410.4	1340.9	1294.5	1259.0	1242.9	1242.9	1244.7	1253.7	1259.0
45°	1326.7	1232.2	1143.2	1066.7	1002.5	956.2	934.9	929.5	927.8	931.3	943.8
47.5°	1146.8	1048.9	956.2	861.9	794.2	747.9	728.3	721.2	714.0	721.2	723.0
50°	1006.1	904.6	806.7	712.3	641.0	600.1	575.2	564.5	562.7	562.7	566.3
52.5°	877.9	783.5	685.6	589.4	514.6	475.5	452.3	447.0	439.8	447.0	447.0
55°	756.8	662.4	566.3	475.5	413.1	372.2	350.8	343.7	340.1	345.4	345.4
57.5°	625.1	544.9	455.9	374.0	311.7	283.1	267.1	258.2	256.4	260.0	256.4
60°	512.9	445.2	368.6	293.8	245.8	215.5	203.0	199.4	195.8	199.4	199.4
62.5°	406.0	349.0	286.7	229.7	188.7	167.4	153.1	153.1	151.4	151.4	153.1
65°	301.0	256.4	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	85.5	78.4	73.0	76.6	73.0	71.2
70°	160.3	135.3	110.4	90.8	73.0	64.1	58.8	57.0	53.4	53.4	53.4
72.5°	106.9	90.8	74.8	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	16.1
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	16.1	16.1	14.2	8.9	7.1	5.4	7.1	3.6	3.6	3.6
85°	12.5	10.7	8.9	5.4	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°	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9
2.5°	3668.3	3666.5	3670.1	3670.1	3680.8	3678.9	3684.3	3684.3	3680.8	3682.5	3689.6
5°	3680.8	3686.1	3696.7	3705.7	3721.7	3728.8	3737.7	3746.7	3748.4	3753.8	3759.1
7.5°	3680.8	3698.6	3711.0	3727.0	3748.4	3760.9	3780.4	3796.5	3803.6	3812.5	3823.2
10°	3673.6	3691.4	3714.6	3732.4	3759.1	3778.7	3798.3	3823.2	3833.9	3848.1	3862.4
12.5°	3659.4	3678.9	3703.9	3727.0	3757.3	3775.1	3800.0	3823.2	3839.2	3858.8	3874.9
15°	3638.0	3661.1	3684.3	3707.4	3739.5	3760.9	3784.0	3810.7	3826.8	3848.1	3862.4
17.5°	3604.2	3629.1	3650.5	3671.8	3702.1	3727.0	3748.4	3773.3	3789.4	3807.2	3826.8
20°	3563.2	3586.4	3609.5	3627.3	3657.6	3678.9	3702.1	3725.3	3737.7	3741.3	3771.6
22.5°	3511.6	3527.6	3545.4	3573.9	3591.7	3611.3	3632.7	3654.0	3666.5	3686.1	3696.7
25°	3426.1	3442.1	3461.7	3474.1	3495.5	3511.6	3532.9	3556.1	3563.2	3577.5	3588.1
27.5°	3306.8	3315.7	3324.6	3335.3	3347.7	3356.7	3369.1	3379.8	3386.9	3394.0	3401.1
30°	3118.0	3118.0	3118.0	3110.9	3116.2	3121.6	3123.4	3121.6	3121.6	3119.8	3119.8
32.5°	2868.7	2854.5	2838.5	2824.2	2818.9	2811.8	2808.2	2802.8	2794.0	2788.6	2790.4
35°	2532.1	2500.1	2480.5	2462.7	2448.5	2437.8	2432.5	2427.1	2425.4	2418.2	2411.1
37.5°	2111.9	2088.8	2074.6	2063.9	2051.4	2040.7	2042.5	2044.3	2049.6	2046.1	2047.8
40°	1666.7	1661.4	1666.7	1654.3	1650.7	1654.3	1663.2	1675.7	1682.8	1689.9	1702.4
42.5°	1267.9	1276.7	1289.3	1289.3	1294.5	1301.7	1312.4	1332.0	1342.6	1355.1	1369.4
45°	954.5	965.2	981.2	986.5	990.1	998.9	1011.5	1027.5	1034.6	1045.3	1057.7
47.5°	735.4	742.6	751.4	760.4	769.2	772.8	785.3	785.3	794.2	801.3	804.9
50°	573.4	580.5	587.6	593.0	596.6	601.9	605.4	610.8	612.5	616.1	617.9
52.5°	448.7	457.7	457.7	461.2	466.5	471.9	470.1	471.9	473.6	473.6	479.0
55°	350.8	350.8	356.1	356.1	359.7	357.9	359.7	359.7	359.7	359.7	361.5
57.5°	261.7	263.6	268.9	265.3	263.6	267.1	263.6	267.1	265.3	268.9	263.6
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°	151.4	153.1	154.9	153.1	153.1	153.1	151.4	151.4	149.6	147.8	147.8
65°	101.5	99.8	103.3	99.8	101.5	101.5	99.8	101.5	96.2	97.9	96.2
67.5°	73.0	71.2	69.5	71.2	69.5	67.7	67.7	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	16.1	14.2	19.6	19.6	17.8	17.8	16.1	16.1	16.1
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	5.4	7.1	7.1	8.9	7.1	7.1	5.4	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: P248932

CATALOG NUMBER: LSR8B90D010 EC8B90935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9
2.5°	3687.9	3686.1	3687.9	3689.6	3687.9	3686.1	3687.9	3689.6	3682.5	3680.8	3684.3
5°	3766.2	3766.2	3769.7	3771.6	3769.7	3766.2	3766.2	3759.1	3753.8	3748.4	3746.7
7.5°	3833.9	3837.5	3841.0	3842.8	3841.0	3837.5	3833.9	3823.2	3812.5	3803.6	3796.5
10°	3874.9	3880.2	3887.3	3890.8	3887.3	3880.2	3874.9	3862.4	3848.1	3833.9	3823.2
12.5°	3892.7	3898.0	3906.9	3905.1	3906.9	3898.0	3892.7	3874.9	3858.8	3839.2	3823.2
15°	3880.2	3887.3	3896.2	3899.8	3896.2	3887.3	3880.2	3862.4	3848.1	3826.8	3810.7
17.5°	3841.0	3851.7	3857.0	3862.4	3857.0	3851.7	3841.0	3826.8	3807.2	3789.4	3773.3
20°	3787.6	3794.7	3801.9	3803.6	3801.9	3794.7	3787.6	3771.6	3741.3	3737.7	3725.3
22.5°	3711.0	3716.4	3732.4	3727.0	3732.4	3716.4	3711.0	3696.7	3686.1	3666.5	3654.0
25°	3600.6	3605.9	3607.8	3609.5	3607.8	3605.9	3600.6	3588.1	3577.5	3563.2	3556.1
27.5°	3410.1	3410.1	3413.6	3415.4	3413.6	3410.1	3410.1	3401.1	3394.0	3386.9	3379.8
30°	3121.6	3121.6	3121.6	3130.5	3121.6	3121.6	3121.6	3119.8	3119.8	3121.6	3121.6
32.5°	2788.6	2785.0	2781.5	2785.0	2781.5	2785.0	2788.6	2790.4	2788.6	2794.0	2802.8
35°	2411.1	2409.3	2414.7	2407.5	2414.7	2409.3	2411.1	2411.1	2418.2	2425.4	2427.1
37.5°	2049.6	2046.1	2053.2	2046.1	2053.2	2046.1	2049.6	2047.8	2046.1	2049.6	2044.3
40°	1706.0	1709.5	1709.5	1723.8	1709.5	1709.5	1706.0	1702.4	1689.9	1682.8	1675.7
42.5°	1376.5	1387.2	1383.6	1394.3	1383.6	1387.2	1376.5	1369.4	1355.1	1342.6	1332.0
45°	1064.8	1072.0	1072.0	1075.5	1072.0	1072.0	1064.8	1057.7	1045.3	1034.6	1027.5
47.5°	817.3	817.3	817.3	819.2	817.3	817.3	817.3	804.9	801.3	794.2	785.3
50°	621.5	623.2	625.1	626.8	625.1	623.2	621.5	617.9	616.1	612.5	610.8
52.5°	477.2	479.0	475.5	479.0	475.5	479.0	477.2	479.0	473.6	473.6	471.9
55°	361.5	359.7	361.5	363.3	361.5	359.7	361.5	361.5	359.7	359.7	359.7
57.5°	265.3	261.7	261.7	261.7	261.7	261.7	265.3	263.6	268.9	265.3	267.1
60°	197.7	199.4	199.4	201.2	199.4	199.4	197.7	201.2	201.2	203.0	203.0
62.5°	146.0	151.4	147.8	151.4	147.8	151.4	146.0	147.8	147.8	149.6	151.4
65°	94.4	94.4	94.4	96.2	94.4	94.4	94.4	96.2	97.9	96.2	101.5
67.5°	64.1	65.9	69.5	67.7	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°	16.1	14.2	12.5	17.8	12.5	14.2	16.1	16.1	16.1	16.1	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°	5.4	7.1	5.4	8.9	5.4	7.1	5.4	8.9	5.4	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: P248932

CATALOG NUMBER: LSR8B90D010 EC8B90935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9
2.5°	3684.3	3678.9	3680.8	3670.1	3670.1	3666.5	3668.3	3659.4	3655.8	3652.3	3657.6
5°	3737.7	3728.8	3721.7	3705.7	3696.7	3686.1	3680.8	3666.5	3654.0	3643.3	3641.6
7.5°	3780.4	3760.9	3748.4	3727.0	3711.0	3698.6	3680.8	3661.1	3645.1	3630.9	3620.2
10°	3798.3	3778.7	3759.1	3732.4	3714.6	3691.4	3673.6	3648.7	3627.3	3607.8	3595.2
12.5°	3800.0	3775.1	3757.3	3727.0	3703.9	3678.9	3659.4	3630.9	3605.9	3586.4	3566.8
15°	3784.0	3760.9	3739.5	3707.4	3684.3	3661.1	3638.0	3607.8	3584.6	3561.4	3547.2
17.5°	3748.4	3727.0	3702.1	3671.8	3650.5	3629.1	3604.2	3579.3	3552.5	3527.6	3509.8
20°	3702.1	3678.9	3657.6	3627.3	3609.5	3586.4	3563.2	3536.5	3515.1	3490.2	3470.6
22.5°	3632.7	3611.3	3591.7	3573.9	3545.4	3527.6	3511.6	3481.3	3459.9	3436.8	3415.4
25°	3532.9	3511.6	3495.5	3474.1	3461.7	3442.1	3426.1	3399.4	3379.8	3358.4	3340.6
27.5°	3369.1	3356.7	3347.7	3335.3	3324.6	3315.7	3306.8	3285.4	3271.2	3251.6	3233.8
30°	3123.4	3121.6	3116.2	3110.9	3118.0	3118.0	3118.0	3114.5	3102.0	3087.7	3075.3
32.5°	2808.2	2811.8	2818.9	2824.2	2838.5	2854.5	2868.7	2875.8	2875.8	2867.0	2861.6
35°	2432.5	2437.8	2448.5	2462.7	2480.5	2500.1	2532.1	2539.3	2544.6	2544.6	2537.5
37.5°	2042.5	2040.7	2051.4	2063.9	2074.6	2088.8	2111.9	2117.3	2126.2	2122.6	2115.5
40°	1663.2	1654.3	1650.7	1654.3	1666.7	1661.4	1666.7	1663.2	1663.2	1650.7	1650.7
42.5°	1312.4	1301.7	1294.5	1289.3	1289.3	1276.7	1267.9	1259.0	1253.7	1244.7	1242.9
45°	1011.5	998.9	990.1	986.5	981.2	965.2	954.5	943.8	931.3	927.8	929.5
47.5°	785.3	772.8	769.2	760.4	751.4	742.6	735.4	723.0	721.2	714.0	721.2
50°	605.4	601.9	596.6	593.0	587.6	580.5	573.4	566.3	562.7	562.7	564.5
52.5°	470.1	471.9	466.5	461.2	457.7	457.7	448.7	447.0	447.0	439.8	447.0
55°	359.7	357.9	359.7	356.1	356.1	350.8	350.8	345.4	345.4	340.1	343.7
57.5°	263.6	267.1	263.6	265.3	268.9	263.6	261.7	256.4	260.0	256.4	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°	151.4	153.1	153.1	153.1	154.9	153.1	151.4	153.1	151.4	151.4	153.1
65°	99.8	101.5	101.5	99.8	103.3	99.8	101.5	103.3	105.0	103.3	105.0
67.5°	67.7	67.7	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	57.0
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	16.1	19.6	14.2	16.1	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	5.4	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: P248932

CATALOG NUMBER: LSR8B90D010 EC8B90935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9
2.5°	3643.3	3643.3	3641.6	3638.0	3630.9	3630.9	3629.1	3623.7	3620.2	3618.4	3618.4
5°	3625.5	3618.4	3611.3	3591.7	3591.7	3588.1	3577.5	3570.3	3566.8	3557.9	3554.3
7.5°	3609.5	3588.1	3575.7	3563.2	3547.2	3540.0	3527.6	3522.2	3509.8	3500.9	3495.5
10°	3570.3	3556.1	3540.0	3520.5	3508.0	3493.8	3479.5	3468.9	3452.8	3443.9	3436.8
12.5°	3543.6	3522.2	3508.0	3486.6	3465.3	3452.8	3433.2	3420.8	3404.7	3386.9	3376.2
15°	3518.7	3495.5	3476.0	3452.8	3429.7	3415.4	3392.3	3378.1	3354.9	3337.1	3324.6
17.5°	3481.3	3461.7	3440.4	3411.8	3390.5	3372.7	3347.7	3330.0	3308.6	3285.4	3272.9
20°	3442.1	3419.0	3397.6	3369.1	3347.7	3326.4	3301.5	3281.9	3256.9	3235.6	3221.3
22.5°	3390.5	3363.8	3346.0	3317.4	3292.5	3269.4	3246.3	3223.1	3199.9	3182.1	3166.1
25°	3315.7	3287.2	3267.6	3244.4	3221.3	3203.5	3175.0	3160.8	3137.6	3121.6	3105.5
27.5°	3208.8	3187.5	3169.7	3146.5	3126.9	3112.7	3091.3	3077.1	3057.5	3043.2	3030.8
30°	3052.2	3034.4	3018.3	2995.2	2980.9	2968.5	2948.8	2936.4	2922.2	2906.1	2902.6
32.5°	2842.0	2827.8	2811.8	2795.7	2785.0	2777.9	2761.9	2754.7	2740.5	2731.6	2722.7
35°	2525.0	2512.6	2503.7	2496.6	2493.0	2494.8	2491.3	2498.4	2501.9	2500.1	2501.9
37.5°	2110.2	2103.0	2106.6	2111.9	2129.8	2152.9	2174.2	2206.3	2227.7	2249.1	2268.7
40°	1647.2	1652.5	1666.7	1698.8	1745.1	1796.8	1844.9	1905.4	1965.9	2008.7	2047.8
42.5°	1242.9	1259.0	1294.5	1340.9	1410.4	1486.9	1561.7	1650.7	1723.8	1794.9	1844.9
45°	934.9	956.2	1002.5	1066.7	1143.2	1232.2	1326.7	1426.3	1513.6	1586.6	1641.8
47.5°	728.3	747.9	794.2	861.9	956.2	1048.9	1146.8	1250.1	1340.9	1412.1	1460.2
50°	575.2	600.1	641.0	712.3	806.7	904.6	1006.1	1107.6	1193.1	1253.7	1296.4
52.5°	452.3	475.5	514.6	589.4	685.6	783.5	877.9	977.6	1052.4	1111.2	1139.7
55°	350.8	372.2	413.1	475.5	566.3	662.4	756.8	842.3	911.7	954.5	981.2
57.5°	267.1	283.1	311.7	374.0	455.9	544.9	625.1	710.5	764.0	794.2	812.0
60°	203.0	215.5	245.8	293.8	368.6	445.2	512.9	577.0	619.7	644.6	662.4
62.5°	153.1	167.4	188.7	229.7	286.7	349.0	406.0	454.1	489.7	505.7	518.2
65°	105.0	115.7	131.8	163.8	211.9	256.4	301.0	336.6	359.7	377.5	384.7
67.5°	78.4	85.5	94.4	119.3	153.1	188.7	219.0	243.9	268.9	276.0	288.5
70°	58.8	64.1	73.0	90.8	110.4	135.3	160.3	174.5	192.3	204.8	208.4
72.5°	37.4	39.1	48.1	58.8	74.8	90.8	106.9	119.3	130.0	137.1	140.7
75°	21.4	32.0	32.0	42.7	53.4	60.5	71.2	80.1	85.5	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°	5.4	7.1	8.9	14.2	16.1	16.1	21.4	23.2	26.7	28.5	28.5
85°	1.8	3.6	3.6	5.4	8.9	10.7	12.5	14.2	16.1	16.1	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: P248932

CATALOG NUMBER: LSR8B90D010 EC8B90935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9
2.5°	3614.9	3616.6	3609.5	3607.8	3604.2	3605.9	3609.5
5°	3549.0	3550.7	3543.6	3536.5	3536.5	3534.7	3536.5
7.5°	3486.6	3488.4	3477.7	3474.1	3467.0	3468.9	3468.9
10°	3424.3	3424.3	3408.3	3406.5	3401.1	3399.4	3399.4
12.5°	3363.8	3358.4	3346.0	3338.8	3342.4	3331.7	3331.7
15°	3310.3	3301.5	3285.4	3280.1	3271.2	3267.6	3267.6
17.5°	3255.1	3248.0	3233.8	3223.1	3212.4	3210.6	3212.4
20°	3201.7	3194.6	3176.8	3169.7	3160.8	3160.8	3157.2
22.5°	3148.3	3141.2	3125.2	3119.8	3107.4	3107.4	3109.1
25°	3093.1	3087.7	3069.9	3066.4	3064.6	3057.5	3061.1
27.5°	3018.3	3014.7	3000.5	2995.2	2988.0	2986.3	2989.8
30°	2881.2	2875.8	2865.2	2859.9	2847.4	2849.2	2852.7
32.5°	2710.3	2703.1	2688.9	2683.5	2672.9	2669.3	2671.0
35°	2496.6	2491.3	2478.8	2478.8	2468.1	2464.5	2468.1
37.5°	2279.4	2284.6	2279.4	2284.6	2279.4	2277.5	2279.4
40°	2074.6	2094.1	2097.7	2117.3	2110.2	2120.8	2119.1
42.5°	1878.6	1910.7	1923.2	1939.2	1935.7	1942.8	1948.1
45°	1681.0	1707.7	1720.2	1730.9	1732.6	1736.2	1738.0
47.5°	1494.0	1515.4	1517.1	1529.6	1527.9	1527.9	1533.2
50°	1319.5	1333.8	1337.3	1346.2	1339.1	1335.5	1337.3
52.5°	1157.5	1171.7	1168.1	1171.7	1162.8	1159.2	1161.0
55°	991.8	998.9	998.9	998.9	988.3	988.3	988.3
57.5°	822.7	824.5	820.9	822.7	820.9	810.2	808.5
60°	667.8	667.8	666.0	667.8	662.4	657.1	657.1
62.5°	521.7	525.3	532.4	525.3	521.7	525.3	520.0
65°	390.0	397.1	395.3	398.9	397.1	397.1	393.5
67.5°	293.8	295.6	297.4	299.2	299.2	299.2	299.2
70°	215.5	220.8	219.0	219.0	219.0	219.0	229.7
72.5°	144.2	151.4	149.6	153.1	153.1	156.7	153.1
75°	97.9	105.0	101.5	106.9	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)