

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: P248642

Luminaire Tested: **LD8B70D010 ER8B70930 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248642
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: LD8B70D010 ER8B70930 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6218.2 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

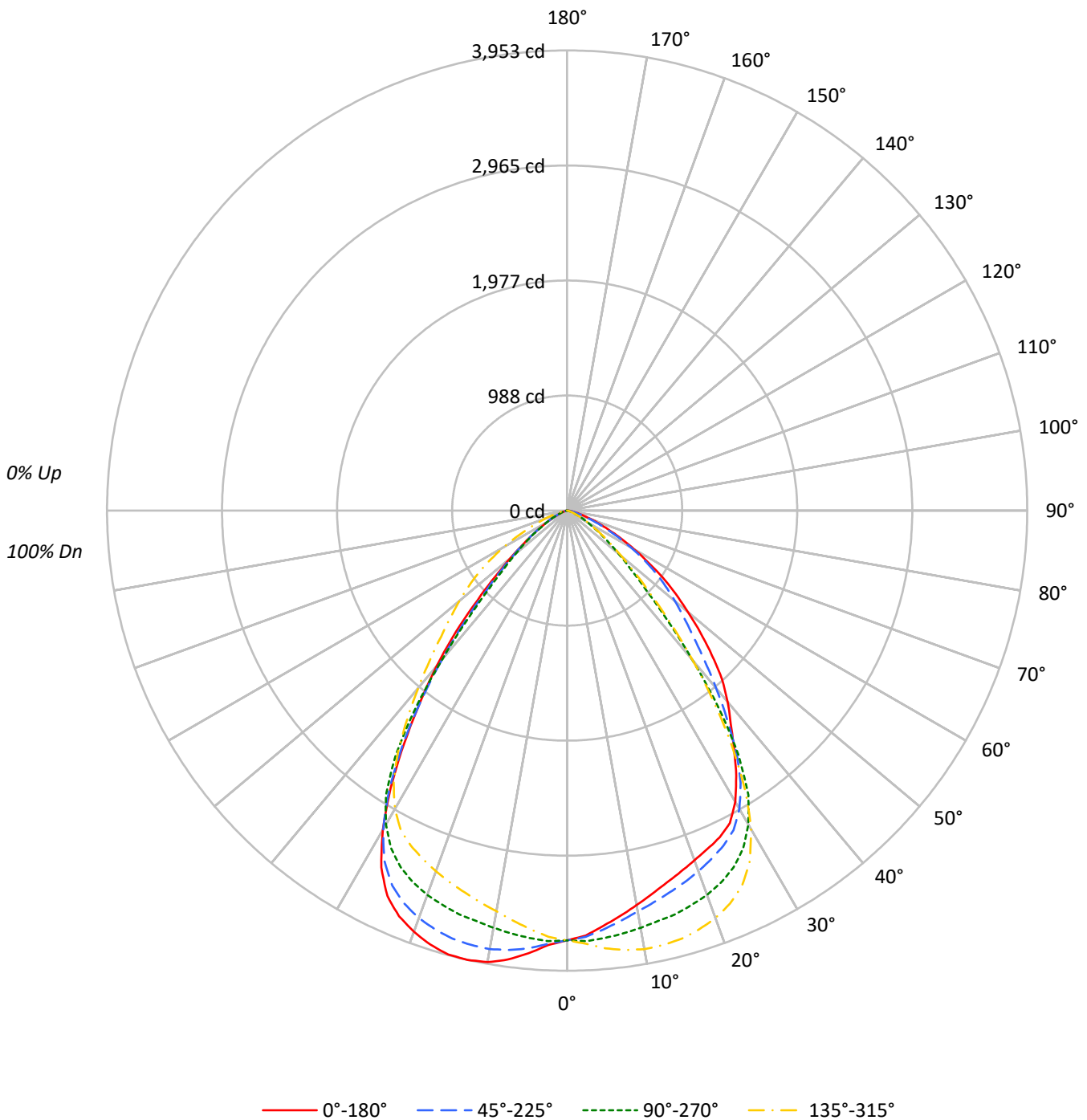
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
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°	351.4	5.7
10°-20°	1017.5	16.4
20°-30°	1540.7	24.8
30°-40°	1544.1	24.8
40°-50°	969.6	15.6
50°-60°	516.7	8.3
60°-70°	212.5	3.4
70°-80°	56.1	0.9
80°-90°	9.5	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°	2909.5	46.8
0°-40°	4453.7	71.6
0°-60°	5940.1	95.5
0°-90°	6218.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6218.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3692	3692	3692	3692	3692	
5°	3580	3686	3818	3686	3580	338
15°	3308	3591	3948	3591	3308	935
25°	3099	3382	3654	3382	3099	1421
35°	2498	2568	2437	2568	2498	1565
45°	1759	941	1089	941	1759	1353
55°	1000	348	368	348	1000	892
65°	398	106	97	106	398	413
75°	112	22	18	22	112	127
85°	23	0	2	0	23	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°	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6
2.5°	3653.7	3650.1	3648.3	3651.9	3653.7	3660.8	3659.2	3662.6	3662.6	3664.5	3668.1
5°	3579.8	3577.9	3579.8	3579.8	3587.0	3594.2	3592.5	3597.8	3601.4	3610.4	3614.0
7.5°	3511.3	3511.3	3509.5	3516.7	3520.3	3531.2	3529.2	3538.3	3543.7	3552.7	3565.3
10°	3441.0	3441.0	3442.8	3448.2	3450.0	3466.2	3466.2	3478.8	3486.0	3495.1	3511.3
12.5°	3372.5	3372.5	3383.3	3379.7	3386.9	3399.5	3404.9	3417.6	3428.4	3446.4	3462.7
15°	3307.6	3307.6	3311.2	3320.2	3325.7	3341.9	3350.9	3365.4	3377.9	3396.0	3419.4
17.5°	3251.7	3249.9	3251.7	3262.6	3273.4	3287.8	3295.0	3313.0	3325.7	3349.1	3370.7
20°	3195.9	3199.4	3199.4	3208.5	3215.7	3233.7	3240.9	3260.8	3275.2	3296.7	3322.1
22.5°	3147.2	3145.4	3145.4	3158.0	3163.5	3179.6	3186.8	3204.8	3221.1	3239.1	3262.6
25°	3098.6	3094.9	3102.1	3103.9	3107.5	3125.6	3131.0	3143.5	3159.8	3176.0	3199.4
27.5°	3026.4	3022.9	3024.6	3031.9	3037.2	3051.6	3055.3	3067.8	3080.5	3094.9	3114.8
30°	2887.6	2884.0	2882.2	2894.9	2900.3	2911.0	2916.4	2938.1	2941.7	2957.9	2972.3
32.5°	2703.7	2701.9	2705.6	2716.3	2721.8	2736.2	2743.4	2756.1	2765.1	2774.0	2788.5
35°	2498.3	2494.7	2498.3	2509.1	2509.1	2521.7	2527.2	2532.5	2530.8	2532.5	2529.0
37.5°	2307.2	2305.4	2307.2	2312.6	2307.2	2312.6	2307.2	2296.4	2276.6	2254.9	2233.3
40°	2145.0	2146.7	2136.1	2143.2	2123.3	2119.8	2100.0	2072.8	2033.3	1990.0	1928.7
42.5°	1972.0	1966.6	1959.4	1962.9	1946.7	1934.1	1901.7	1867.5	1816.9	1744.8	1670.9
45°	1759.3	1757.5	1753.8	1752.0	1741.2	1728.6	1701.6	1661.9	1606.1	1532.2	1443.8
47.5°	1551.9	1546.5	1546.5	1548.3	1535.8	1534.0	1512.2	1478.0	1429.4	1357.3	1265.4
50°	1353.6	1351.8	1355.5	1362.7	1353.6	1350.1	1335.7	1312.2	1269.0	1207.8	1121.1
52.5°	1175.3	1173.5	1177.0	1186.0	1182.4	1186.0	1171.7	1153.6	1124.8	1065.3	989.6
55°	1000.4	1000.4	1000.4	1011.1	1011.1	1011.1	1004.0	993.2	966.2	922.9	852.6
57.5°	818.3	820.1	831.0	832.8	831.0	834.6	832.8	821.9	804.0	773.3	719.2
60°	665.1	665.1	670.6	676.0	674.2	676.0	676.0	670.6	652.5	627.3	584.0
62.5°	526.3	531.7	528.1	531.7	539.0	531.7	528.1	524.5	512.0	495.7	459.6
65°	398.3	402.0	402.0	403.8	400.1	402.0	394.8	389.3	382.1	364.1	340.7
67.5°	302.9	302.9	302.9	302.9	301.0	299.2	297.4	292.0	279.5	272.2	247.0
70°	232.5	221.7	221.7	221.7	221.7	223.5	218.1	211.0	207.3	194.7	176.7
72.5°	155.0	158.6	155.0	155.0	151.4	153.2	146.1	142.4	138.8	131.6	120.7
75°	111.8	102.8	106.3	108.2	102.8	106.3	99.1	91.9	91.9	86.5	81.0
77.5°	72.1	70.3	72.1	73.9	72.1	70.3	66.7	63.1	63.1	61.3	55.8
80°	52.4	50.4	50.4	50.4	48.7	50.4	46.9	46.9	43.3	41.5	37.9
82.5°	34.3	34.3	32.4	34.3	32.4	34.3	28.8	28.8	28.8	27.0	23.4
85°	23.4	19.8	19.8	21.6	18.0	21.6	19.8	18.0	16.3	16.3	14.3
87.5°	10.9	12.7	10.9	12.7	10.9	10.9	12.7	10.9	10.9	7.2	7.2
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: P248642

CATALOG NUMBER: LD8B70D010 ER8B70930 8LBSWOH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6
2.5°	3673.5	3675.3	3675.3	3682.6	3686.1	3687.9	3687.9	3702.3	3696.9	3700.6	3704.1
5°	3621.3	3632.0	3635.6	3635.6	3655.5	3662.6	3669.9	3686.1	3687.9	3698.7	3711.3
7.5°	3570.7	3583.4	3590.7	3606.8	3619.4	3632.0	3653.7	3664.5	3675.3	3689.8	3705.9
10°	3522.1	3536.5	3551.0	3563.5	3583.4	3599.6	3614.0	3639.2	3651.9	3671.7	3693.4
12.5°	3475.3	3495.1	3507.7	3529.2	3551.0	3565.3	3587.0	3610.4	3630.2	3650.1	3675.3
15°	3433.8	3457.3	3471.6	3495.1	3518.5	3538.3	3561.8	3590.7	3605.0	3628.5	3651.9
17.5°	3388.7	3414.0	3432.1	3453.6	3482.5	3504.0	3524.0	3552.7	3570.7	3595.9	3623.1
20°	3341.9	3367.1	3388.7	3410.3	3439.2	3460.8	3484.3	3513.1	3532.9	3558.2	3579.8
22.5°	3286.0	3309.4	3332.8	3358.1	3386.9	3404.9	3432.1	3457.3	3478.8	3502.2	3524.0
25°	3213.9	3242.7	3260.8	3284.2	3307.6	3327.4	3356.3	3381.5	3399.5	3421.2	3441.0
27.5°	3129.2	3150.8	3165.3	3185.0	3208.5	3226.5	3248.1	3273.4	3291.4	3311.2	3325.7
30°	2984.9	3004.8	3017.4	3031.9	3055.3	3071.5	3089.6	3112.9	3125.6	3140.0	3152.6
32.5°	2795.7	2811.9	2819.1	2830.0	2846.2	2862.4	2876.8	2896.7	2902.0	2911.0	2911.0
35°	2521.7	2525.3	2523.5	2527.2	2534.4	2543.3	2556.0	2568.5	2575.7	2575.7	2570.5
37.5°	2200.9	2179.2	2155.8	2137.7	2132.4	2128.8	2136.1	2141.3	2148.6	2152.2	2143.2
40°	1867.5	1818.7	1766.5	1719.6	1687.1	1672.8	1667.4	1670.9	1670.9	1683.5	1683.5
42.5°	1580.8	1505.1	1427.6	1357.3	1310.4	1274.5	1258.2	1258.2	1259.9	1269.0	1274.5
45°	1342.8	1247.3	1157.2	1079.7	1014.8	967.9	946.3	941.0	939.2	942.6	955.3
47.5°	1160.8	1061.7	967.9	872.5	804.0	757.0	737.3	730.0	722.8	730.0	731.8
50°	1018.4	915.6	816.5	721.0	648.9	607.5	582.2	571.4	569.6	569.6	573.2
52.5°	888.6	793.1	694.0	596.7	520.9	481.2	457.8	452.4	445.3	452.4	452.4
55°	766.1	670.6	573.2	481.2	418.1	376.8	355.1	347.8	344.3	349.6	349.6
57.5°	632.7	551.5	461.5	378.6	315.4	286.6	270.4	261.4	259.5	263.2	259.5
60°	519.1	450.6	373.1	297.4	248.7	218.1	205.5	201.9	198.2	201.9	201.9
62.5°	411.0	353.3	290.1	232.5	191.0	169.5	155.0	155.0	153.2	153.2	155.0
65°	304.7	259.5	214.4	165.8	133.4	117.1	106.3	106.3	104.6	106.3	104.6
67.5°	221.7	191.0	155.0	120.7	95.5	86.5	79.4	73.9	77.6	73.9	72.1
70°	162.2	137.0	111.8	91.9	73.9	64.9	59.5	57.6	54.0	54.0	54.0
72.5°	108.2	91.9	75.7	59.5	48.7	39.6	37.9	34.3	30.6	32.4	36.1
75°	72.1	61.3	54.0	43.3	32.4	32.4	21.6	21.6	18.0	21.6	16.3
77.5°	50.4	41.5	32.4	27.0	21.6	19.8	14.3	14.3	12.7	12.7	12.7
80°	36.1	30.6	23.4	19.8	14.3	14.3	12.7	10.9	9.0	9.0	10.9
82.5°	21.6	16.3	16.3	14.3	9.0	7.2	5.4	7.2	3.6	3.6	3.6
85°	12.7	10.9	9.0	5.4	3.6	3.6	1.8	0.0	1.8	1.8	0.0
87.5°	7.2	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



TEST NUMBER: P248642

CATALOG NUMBER: LD8B70D010 ER8B70930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6
2.5°	3713.2	3711.3	3715.0	3715.0	3725.9	3724.0	3729.3	3729.3	3725.9	3727.5	3734.8
5°	3725.9	3731.2	3742.0	3751.1	3767.2	3774.5	3783.5	3792.6	3794.2	3799.7	3805.1
7.5°	3725.9	3743.8	3756.5	3772.6	3794.2	3806.9	3826.8	3843.0	3850.2	3859.2	3870.0
10°	3718.6	3736.6	3760.1	3778.0	3805.1	3825.0	3844.7	3870.0	3880.8	3895.3	3909.7
12.5°	3704.1	3724.0	3749.2	3772.6	3803.3	3821.3	3846.5	3870.0	3886.2	3906.0	3922.3
15°	3682.6	3705.9	3729.3	3752.8	3785.3	3806.9	3830.3	3857.4	3873.6	3895.3	3909.7
17.5°	3648.3	3673.5	3695.2	3716.8	3747.4	3772.6	3794.2	3819.5	3835.7	3853.8	3873.6
20°	3606.8	3630.2	3653.7	3671.7	3702.3	3724.0	3747.4	3770.8	3783.5	3787.1	3817.8
22.5°	3554.6	3570.7	3588.8	3617.7	3635.6	3655.5	3677.1	3698.7	3711.3	3731.2	3742.0
25°	3468.0	3484.3	3504.0	3516.7	3538.3	3554.6	3576.2	3599.6	3606.8	3621.3	3632.0
27.5°	3347.3	3356.3	3365.4	3376.1	3388.7	3397.8	3410.3	3421.2	3428.4	3435.5	3442.8
30°	3156.2	3156.2	3156.2	3149.0	3154.4	3159.8	3161.6	3159.8	3159.8	3158.0	3158.0
32.5°	2903.8	2889.5	2873.2	2858.8	2853.4	2846.2	2842.5	2837.1	2828.2	2822.8	2824.5
35°	2563.2	2530.8	2510.9	2492.9	2478.5	2467.7	2462.3	2456.8	2455.0	2447.8	2440.5
37.5°	2137.7	2114.3	2100.0	2089.1	2076.5	2065.7	2067.5	2069.4	2074.6	2071.0	2072.8
40°	1687.1	1681.7	1687.1	1674.5	1670.9	1674.5	1683.5	1696.2	1703.4	1710.6	1723.2
42.5°	1283.4	1292.4	1305.1	1305.1	1310.4	1317.6	1328.4	1348.3	1359.1	1371.7	1386.1
45°	966.2	977.0	993.2	998.6	1002.2	1011.1	1023.8	1040.1	1047.2	1058.1	1070.7
47.5°	744.5	751.6	760.6	769.7	778.6	782.2	794.9	794.9	804.0	811.2	814.7
50°	580.5	587.6	594.8	600.2	603.9	609.3	612.9	618.2	620.0	623.6	625.4
52.5°	454.2	463.3	463.3	466.8	472.3	477.7	475.9	477.7	479.5	479.5	484.8
55°	355.1	355.1	360.5	360.5	364.1	362.3	364.1	364.1	364.1	364.1	365.9
57.5°	264.9	266.8	272.2	268.6	266.8	270.4	266.8	270.4	268.6	272.2	266.8
60°	203.7	203.7	205.5	205.5	207.3	207.3	207.3	205.5	205.5	203.7	203.7
62.5°	153.2	155.0	156.8	155.0	155.0	155.0	153.2	153.2	151.4	149.5	149.5
65°	102.8	101.0	104.6	101.0	102.8	102.8	101.0	102.8	97.3	99.1	97.3
67.5°	73.9	72.1	70.3	72.1	70.3	68.5	68.5	70.3	72.1	66.7	66.7
70°	48.7	50.4	48.7	50.4	52.4	52.4	50.4	48.7	50.4	46.9	48.7
72.5°	30.6	30.6	30.6	30.6	30.6	32.4	32.4	32.4	28.8	28.8	27.0
75°	14.3	19.8	16.3	14.3	19.8	19.8	18.0	18.0	16.3	16.3	16.3
77.5°	14.3	10.9	10.9	10.9	10.9	10.9	10.9	10.9	9.0	10.9	9.0
80°	7.2	7.2	7.2	5.4	7.2	7.2	9.0	7.2	7.2	5.4	9.0
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: P248642

CATALOG NUMBER: LD8B70D010 ER8B70930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6
2.5°	3733.0	3731.2	3733.0	3734.8	3733.0	3731.2	3733.0	3734.8	3727.5	3725.9	3729.3
5°	3812.3	3812.3	3815.9	3817.8	3815.9	3812.3	3812.3	3805.1	3799.7	3794.2	3792.6
7.5°	3880.8	3884.5	3888.0	3889.8	3888.0	3884.5	3880.8	3870.0	3859.2	3850.2	3843.0
10°	3922.3	3927.6	3934.9	3938.4	3934.9	3927.6	3922.3	3909.7	3895.3	3880.8	3870.0
12.5°	3940.3	3945.7	3954.7	3952.9	3954.7	3945.7	3940.3	3922.3	3906.0	3886.2	3870.0
15°	3927.6	3934.9	3943.9	3947.5	3943.9	3934.9	3927.6	3909.7	3895.3	3873.6	3857.4
17.5°	3888.0	3898.8	3904.2	3909.7	3904.2	3898.8	3888.0	3873.6	3853.8	3835.7	3819.5
20°	3833.9	3841.2	3848.4	3850.2	3848.4	3841.2	3833.9	3817.8	3787.1	3783.5	3770.8
22.5°	3756.5	3761.9	3778.0	3772.6	3778.0	3761.9	3756.5	3742.0	3731.2	3711.3	3698.7
25°	3644.6	3650.1	3651.9	3653.7	3651.9	3650.1	3644.6	3632.0	3621.3	3606.8	3599.6
27.5°	3451.8	3451.8	3455.4	3457.3	3455.4	3451.8	3451.8	3442.8	3435.5	3428.4	3421.2
30°	3159.8	3159.8	3159.8	3168.8	3159.8	3159.8	3159.8	3158.0	3158.0	3159.8	3159.8
32.5°	2822.8	2819.1	2815.5	2819.1	2815.5	2819.1	2822.8	2824.5	2822.8	2828.2	2837.1
35°	2440.5	2438.8	2444.2	2437.1	2444.2	2438.8	2440.5	2440.5	2447.8	2455.0	2456.8
37.5°	2074.6	2071.0	2078.3	2071.0	2078.3	2071.0	2074.6	2072.8	2071.0	2074.6	2069.4
40°	1726.8	1730.4	1730.4	1744.8	1730.4	1730.4	1726.8	1723.2	1710.6	1703.4	1696.2
42.5°	1393.3	1404.2	1400.6	1411.3	1400.6	1404.2	1393.3	1386.1	1371.7	1359.1	1348.3
45°	1077.8	1085.1	1085.1	1088.7	1085.1	1085.1	1077.8	1070.7	1058.1	1047.2	1040.1
47.5°	827.3	827.3	827.3	829.2	827.3	827.3	827.3	814.7	811.2	804.0	794.9
50°	629.1	630.9	632.7	634.5	632.7	630.9	629.1	625.4	623.6	620.0	618.2
52.5°	483.0	484.8	481.2	484.8	481.2	484.8	483.0	484.8	479.5	479.5	477.7
55°	365.9	364.1	365.9	367.7	365.9	364.1	365.9	365.9	364.1	364.1	364.1
57.5°	268.6	264.9	264.9	264.9	264.9	264.9	268.6	266.8	272.2	268.6	270.4
60°	200.1	201.9	201.9	203.7	201.9	201.9	200.1	203.7	203.7	205.5	205.5
62.5°	147.7	153.2	149.5	153.2	149.5	153.2	147.7	149.5	149.5	151.4	153.2
65°	95.5	95.5	95.5	97.3	95.5	95.5	95.5	97.3	99.1	97.3	102.8
67.5°	64.9	66.7	70.3	68.5	70.3	66.7	64.9	66.7	66.7	72.1	70.3
70°	52.4	46.9	46.9	52.4	46.9	46.9	52.4	48.7	46.9	50.4	48.7
72.5°	30.6	27.0	30.6	30.6	30.6	27.0	30.6	27.0	28.8	28.8	32.4
75°	16.3	14.3	12.7	18.0	12.7	14.3	16.3	16.3	16.3	16.3	18.0
77.5°	10.9	9.0	12.7	12.7	12.7	9.0	10.9	9.0	10.9	9.0	10.9
80°	5.4	7.2	5.4	9.0	5.4	7.2	5.4	9.0	5.4	7.2	7.2
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: P248642

CATALOG NUMBER: LD8B70D010 ER8B70930 8LBSWOH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6
2.5°	3729.3	3724.0	3725.9	3715.0	3715.0	3711.3	3713.2	3704.1	3700.6	3696.9	3702.3
5°	3783.5	3774.5	3767.2	3751.1	3742.0	3731.2	3725.9	3711.3	3698.7	3687.9	3686.1
7.5°	3826.8	3806.9	3794.2	3772.6	3756.5	3743.8	3725.9	3705.9	3689.8	3675.3	3664.5
10°	3844.7	3825.0	3805.1	3778.0	3760.1	3736.6	3718.6	3693.4	3671.7	3651.9	3639.2
12.5°	3846.5	3821.3	3803.3	3772.6	3749.2	3724.0	3704.1	3675.3	3650.1	3630.2	3610.4
15°	3830.3	3806.9	3785.3	3752.8	3729.3	3705.9	3682.6	3651.9	3628.5	3605.0	3590.7
17.5°	3794.2	3772.6	3747.4	3716.8	3695.2	3673.5	3648.3	3623.1	3595.9	3570.7	3552.7
20°	3747.4	3724.0	3702.3	3671.7	3653.7	3630.2	3606.8	3579.8	3558.2	3532.9	3513.1
22.5°	3677.1	3655.5	3635.6	3617.7	3588.8	3570.7	3554.6	3524.0	3502.2	3478.8	3457.3
25°	3576.2	3554.6	3538.3	3516.7	3504.0	3484.3	3468.0	3441.0	3421.2	3399.5	3381.5
27.5°	3410.3	3397.8	3388.7	3376.1	3365.4	3356.3	3347.3	3325.7	3311.2	3291.4	3273.4
30°	3161.6	3159.8	3154.4	3149.0	3156.2	3156.2	3156.2	3152.6	3140.0	3125.6	3112.9
32.5°	2842.5	2846.2	2853.4	2858.8	2873.2	2889.5	2903.8	2911.0	2911.0	2902.0	2896.7
35°	2462.3	2467.7	2478.5	2492.9	2510.9	2530.8	2563.2	2570.5	2575.7	2575.7	2568.5
37.5°	2067.5	2065.7	2076.5	2089.1	2100.0	2114.3	2137.7	2143.2	2152.2	2148.6	2141.3
40°	1683.5	1674.5	1670.9	1674.5	1687.1	1681.7	1687.1	1683.5	1683.5	1670.9	1670.9
42.5°	1328.4	1317.6	1310.4	1305.1	1305.1	1292.4	1283.4	1274.5	1269.0	1259.9	1258.2
45°	1023.8	1011.1	1002.2	998.6	993.2	977.0	966.2	955.3	942.6	939.2	941.0
47.5°	794.9	782.2	778.6	769.7	760.6	751.6	744.5	731.8	730.0	722.8	730.0
50°	612.9	609.3	603.9	600.2	594.8	587.6	580.5	573.2	569.6	569.6	571.4
52.5°	475.9	477.7	472.3	466.8	463.3	463.3	454.2	452.4	452.4	445.3	452.4
55°	364.1	362.3	364.1	360.5	360.5	355.1	355.1	349.6	349.6	344.3	347.8
57.5°	266.8	270.4	266.8	268.6	272.2	266.8	264.9	259.5	263.2	259.5	261.4
60°	207.3	207.3	207.3	205.5	205.5	203.7	203.7	201.9	201.9	198.2	201.9
62.5°	153.2	155.0	155.0	155.0	156.8	155.0	153.2	155.0	153.2	153.2	155.0
65°	101.0	102.8	102.8	101.0	104.6	101.0	102.8	104.6	106.3	104.6	106.3
67.5°	68.5	68.5	70.3	72.1	70.3	72.1	73.9	72.1	73.9	77.6	73.9
70°	50.4	52.4	52.4	50.4	48.7	50.4	48.7	54.0	54.0	54.0	57.6
72.5°	32.4	32.4	30.6	30.6	30.6	30.6	30.6	36.1	32.4	30.6	34.3
75°	18.0	19.8	19.8	14.3	16.3	19.8	14.3	16.3	21.6	18.0	21.6
77.5°	10.9	10.9	10.9	10.9	10.9	10.9	14.3	12.7	12.7	12.7	14.3
80°	9.0	7.2	7.2	5.4	7.2	7.2	7.2	10.9	9.0	9.0	10.9
82.5°	3.6	3.6	1.8	0.0	3.6	3.6	3.6	3.6	3.6	3.6	7.2
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: P248642

CATALOG NUMBER: LD8B70D010 ER8B70930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6
2.5°	3687.9	3687.9	3686.1	3682.6	3675.3	3675.3	3673.5	3668.1	3664.5	3662.6	3662.6
5°	3669.9	3662.6	3655.5	3635.6	3635.6	3632.0	3621.3	3614.0	3610.4	3601.4	3597.8
7.5°	3653.7	3632.0	3619.4	3606.8	3590.7	3583.4	3570.7	3565.3	3552.7	3543.7	3538.3
10°	3614.0	3599.6	3583.4	3563.5	3551.0	3536.5	3522.1	3511.3	3495.1	3486.0	3478.8
12.5°	3587.0	3565.3	3551.0	3529.2	3507.7	3495.1	3475.3	3462.7	3446.4	3428.4	3417.6
15°	3561.8	3538.3	3518.5	3495.1	3471.6	3457.3	3433.8	3419.4	3396.0	3377.9	3365.4
17.5°	3524.0	3504.0	3482.5	3453.6	3432.1	3414.0	3388.7	3370.7	3349.1	3325.7	3313.0
20°	3484.3	3460.8	3439.2	3410.3	3388.7	3367.1	3341.9	3322.1	3296.7	3275.2	3260.8
22.5°	3432.1	3404.9	3386.9	3358.1	3332.8	3309.4	3286.0	3262.6	3239.1	3221.1	3204.8
25°	3356.3	3327.4	3307.6	3284.2	3260.8	3242.7	3213.9	3199.4	3176.0	3159.8	3143.5
27.5°	3248.1	3226.5	3208.5	3185.0	3165.3	3150.8	3129.2	3114.8	3094.9	3080.5	3067.8
30°	3089.6	3071.5	3055.3	3031.9	3017.4	3004.8	2984.9	2972.3	2957.9	2941.7	2938.1
32.5°	2876.8	2862.4	2846.2	2830.0	2819.1	2811.9	2795.7	2788.5	2774.0	2765.1	2756.1
35°	2556.0	2543.3	2534.4	2527.2	2523.5	2525.3	2521.7	2529.0	2532.5	2530.8	2532.5
37.5°	2136.1	2128.8	2132.4	2137.7	2155.8	2179.2	2200.9	2233.3	2254.9	2276.6	2296.4
40°	1667.4	1672.8	1687.1	1719.6	1766.5	1818.7	1867.5	1928.7	1990.0	2033.3	2072.8
42.5°	1258.2	1274.5	1310.4	1357.3	1427.6	1505.1	1580.8	1670.9	1744.8	1816.9	1867.5
45°	946.3	967.9	1014.8	1079.7	1157.2	1247.3	1342.8	1443.8	1532.2	1606.1	1661.9
47.5°	737.3	757.0	804.0	872.5	967.9	1061.7	1160.8	1265.4	1357.3	1429.4	1478.0
50°	582.2	607.5	648.9	721.0	816.5	915.6	1018.4	1121.1	1207.8	1269.0	1312.2
52.5°	457.8	481.2	520.9	596.7	694.0	793.1	888.6	989.6	1065.3	1124.8	1153.6
55°	355.1	376.8	418.1	481.2	573.2	670.6	766.1	852.6	922.9	966.2	993.2
57.5°	270.4	286.6	315.4	378.6	461.5	551.5	632.7	719.2	773.3	804.0	821.9
60°	205.5	218.1	248.7	297.4	373.1	450.6	519.1	584.0	627.3	652.5	670.6
62.5°	155.0	169.5	191.0	232.5	290.1	353.3	411.0	459.6	495.7	512.0	524.5
65°	106.3	117.1	133.4	165.8	214.4	259.5	304.7	340.7	364.1	382.1	389.3
67.5°	79.4	86.5	95.5	120.7	155.0	191.0	221.7	247.0	272.2	279.5	292.0
70°	59.5	64.9	73.9	91.9	111.8	137.0	162.2	176.7	194.7	207.3	211.0
72.5°	37.9	39.6	48.7	59.5	75.7	91.9	108.2	120.7	131.6	138.8	142.4
75°	21.6	32.4	32.4	43.3	54.0	61.3	72.1	81.0	86.5	91.9	91.9
77.5°	14.3	19.8	21.6	27.0	32.4	41.5	50.4	55.8	61.3	63.1	63.1
80°	12.7	14.3	14.3	19.8	23.4	30.6	36.1	37.9	41.5	43.3	46.9
82.5°	5.4	7.2	9.0	14.3	16.3	16.3	21.6	23.4	27.0	28.8	28.8
85°	1.8	3.6	3.6	5.4	9.0	10.9	12.7	14.3	16.3	16.3	18.0
87.5°	1.8	1.8	0.0	1.8	3.6	3.6	7.2	7.2	7.2	10.9	10.9
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: P248642

CATALOG NUMBER: LD8B70D010 ER8B70930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6	3691.6
2.5°	3659.2	3660.8	3653.7	3651.9	3648.3	3650.1	3653.7
5°	3592.5	3594.2	3587.0	3579.8	3579.8	3577.9	3579.8
7.5°	3529.2	3531.2	3520.3	3516.7	3509.5	3511.3	3511.3
10°	3466.2	3466.2	3450.0	3448.2	3442.8	3441.0	3441.0
12.5°	3404.9	3399.5	3386.9	3379.7	3383.3	3372.5	3372.5
15°	3350.9	3341.9	3325.7	3320.2	3311.2	3307.6	3307.6
17.5°	3295.0	3287.8	3273.4	3262.6	3251.7	3249.9	3251.7
20°	3240.9	3233.7	3215.7	3208.5	3199.4	3199.4	3195.9
22.5°	3186.8	3179.6	3163.5	3158.0	3145.4	3145.4	3147.2
25°	3131.0	3125.6	3107.5	3103.9	3102.1	3094.9	3098.6
27.5°	3055.3	3051.6	3037.2	3031.9	3024.6	3022.9	3026.4
30°	2916.4	2911.0	2900.3	2894.9	2882.2	2884.0	2887.6
32.5°	2743.4	2736.2	2721.8	2716.3	2705.6	2701.9	2703.7
35°	2527.2	2521.7	2509.1	2509.1	2498.3	2494.7	2498.3
37.5°	2307.2	2312.6	2307.2	2312.6	2307.2	2305.4	2307.2
40°	2100.0	2119.8	2123.3	2143.2	2136.1	2146.7	2145.0
42.5°	1901.7	1934.1	1946.7	1962.9	1959.4	1966.6	1972.0
45°	1701.6	1728.6	1741.2	1752.0	1753.8	1757.5	1759.3
47.5°	1512.2	1534.0	1535.8	1548.3	1546.5	1546.5	1551.9
50°	1335.7	1350.1	1353.6	1362.7	1355.5	1351.8	1353.6
52.5°	1171.7	1186.0	1182.4	1186.0	1177.0	1173.5	1175.3
55°	1004.0	1011.1	1011.1	1011.1	1000.4	1000.4	1000.4
57.5°	832.8	834.6	831.0	832.8	831.0	820.1	818.3
60°	676.0	676.0	674.2	676.0	670.6	665.1	665.1
62.5°	528.1	531.7	539.0	531.7	528.1	531.7	526.3
65°	394.8	402.0	400.1	403.8	402.0	402.0	398.3
67.5°	297.4	299.2	301.0	302.9	302.9	302.9	302.9
70°	218.1	223.5	221.7	221.7	221.7	221.7	232.5
72.5°	146.1	153.2	151.4	155.0	155.0	158.6	155.0
75°	99.1	106.3	102.8	108.2	106.3	102.8	111.8
77.5°	66.7	70.3	72.1	73.9	72.1	70.3	72.1
80°	46.9	50.4	48.7	50.4	50.4	50.4	52.4
82.5°	28.8	34.3	32.4	34.3	32.4	34.3	34.3
85°	19.8	21.6	18.0	21.6	19.8	19.8	23.4
87.5°	12.7	10.9	10.9	12.7	10.9	12.7	10.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)