

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: P249038

Luminaire Tested: **LD8B70D010 ER8B70935 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249038
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 ER8B70935 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6353.0 lumens
Efficiency: N/A
Efficacy: 83.7 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

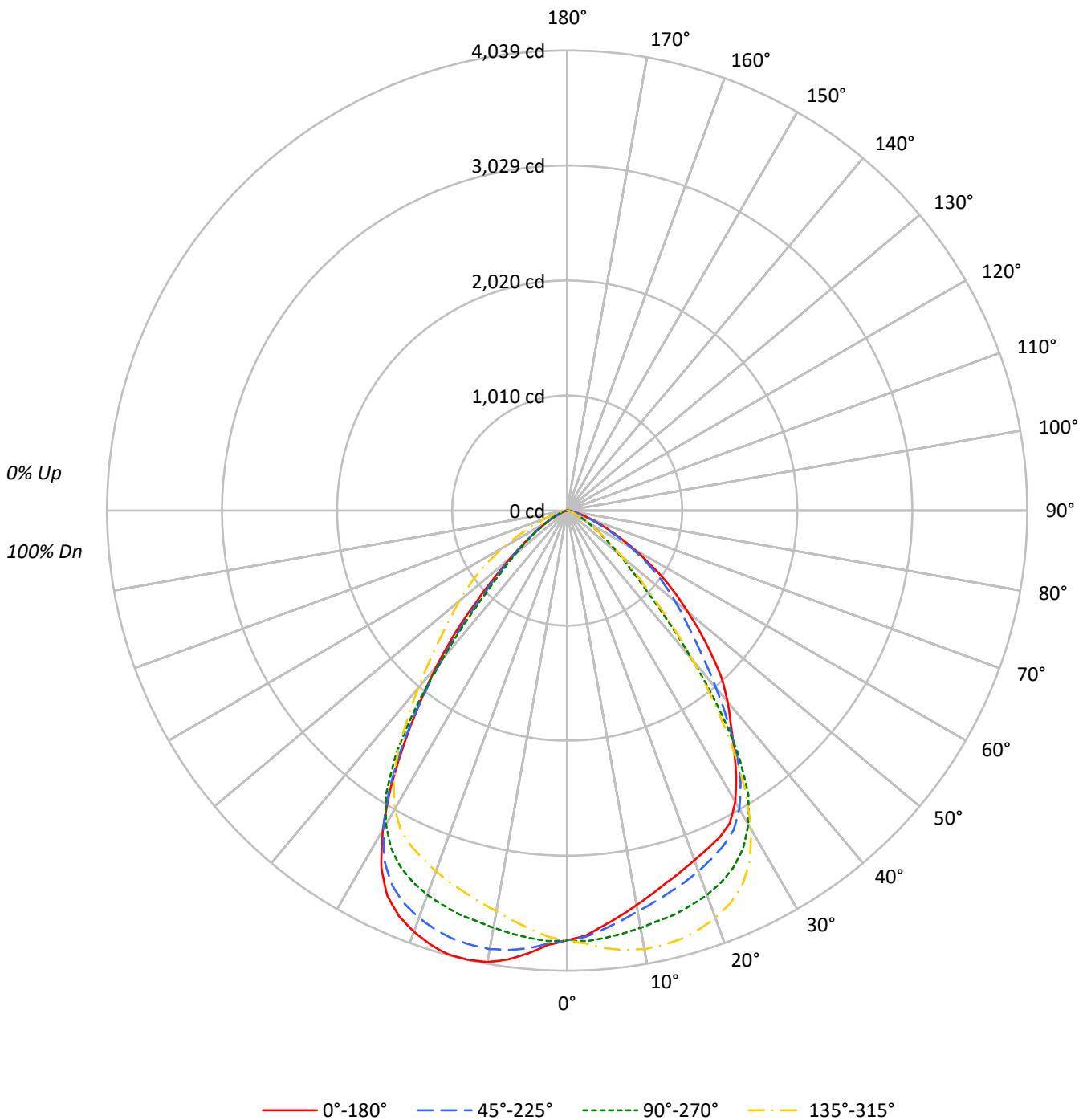
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	116302	116302	116302	116302
5°	113212	116573	120736	116573
10°	110081	116421	125993	116421
15°	107881	117114	128753	117114
20°	107145	117784	129082	117784
25°	107710	117546	127009	117546
30°	105047	113244	115280	113244
35°	96087	98786	93727	98786
40°	88217	68718	71761	68718
45°	78383	41921	48506	41921
50°	66346	28002	31101	28002
55°	54950	19107	20198	19107
60°	41913	12723	12834	12723
65°	29697	7924	7260	7924
70°	21422	5310	4815	5310
75°	13606	2633	2192	2633
80°	9483	1971	1634	1971
85°	8491	0	637	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.0	5.7
10°-20°	1039.5	16.4
20°-30°	1574.1	24.8
30°-40°	1577.6	24.8
40°-50°	990.7	15.6
50°-60°	527.9	8.3
60°-70°	217.1	3.4
70°-80°	57.4	0.9
80°-90°	9.7	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°	2972.6	46.8
0°-40°	4550.3	71.6
0°-60°	6068.9	95.5
0°-90°	6353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6353.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3772	3772	3772	3772	3772	
5°	3657	3766	3900	3766	3657	345
15°	3379	3668	4033	3668	3379	956
25°	3166	3455	3733	3455	3166	1452
35°	2552	2624	2490	2624	2552	1599
45°	1797	961	1112	961	1797	1382
55°	1022	355	376	355	1022	911
65°	407	109	100	109	407	422
75°	114	22	18	22	114	129
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°	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6
2.5°	3732.9	3729.2	3727.4	3731.1	3732.9	3740.3	3738.4	3742.1	3742.1	3744.0	3747.6
5°	3657.4	3655.5	3657.4	3657.4	3664.8	3672.1	3670.3	3675.8	3679.5	3688.7	3692.4
7.5°	3587.5	3587.5	3585.6	3592.9	3596.6	3607.7	3605.8	3615.0	3620.6	3629.8	3642.6
10°	3515.6	3515.6	3517.4	3522.9	3524.8	3541.4	3541.4	3554.3	3561.6	3570.9	3587.5
12.5°	3445.6	3445.6	3456.7	3453.0	3460.3	3473.2	3478.8	3491.6	3502.7	3521.1	3537.7
15°	3379.3	3379.3	3383.0	3392.2	3397.7	3414.3	3423.5	3438.3	3451.2	3469.6	3493.5
17.5°	3322.2	3320.4	3322.2	3333.3	3344.4	3359.1	3366.4	3384.8	3397.7	3421.7	3443.8
20°	3265.1	3268.9	3268.9	3278.0	3285.4	3303.8	3311.2	3331.5	3346.2	3368.2	3394.1
22.5°	3215.4	3213.6	3213.6	3226.5	3232.0	3248.5	3255.9	3274.3	3290.9	3309.3	3333.3
25°	3165.7	3162.0	3169.4	3171.2	3174.9	3193.3	3198.8	3211.7	3228.3	3244.9	3268.9
27.5°	3092.0	3088.4	3090.2	3097.5	3103.1	3117.8	3121.5	3134.4	3147.3	3162.0	3182.3
30°	2950.2	2946.6	2944.7	2957.6	2963.2	2974.1	2979.7	3001.8	3005.5	3022.1	3036.8
32.5°	2762.4	2760.5	2764.2	2775.2	2780.8	2795.6	2802.9	2815.8	2825.0	2834.2	2848.9
35°	2552.5	2548.7	2552.5	2563.5	2563.5	2576.4	2581.9	2587.4	2585.6	2587.4	2583.8
37.5°	2357.3	2355.4	2357.3	2362.7	2357.3	2362.7	2357.3	2346.2	2326.0	2303.8	2281.7
40°	2191.5	2193.3	2182.3	2189.7	2169.4	2165.7	2145.5	2117.8	2077.3	2033.1	1970.5
42.5°	2014.7	2009.2	2001.8	2005.5	1989.0	1976.0	1942.9	1907.9	1856.3	1782.7	1707.1
45°	1797.4	1795.6	1791.9	1790.1	1779.0	1766.1	1738.4	1698.0	1640.9	1565.4	1475.1
47.5°	1585.6	1580.1	1580.1	1581.9	1569.0	1567.2	1545.1	1510.1	1460.4	1386.7	1292.8
50°	1383.0	1381.2	1384.9	1392.2	1383.0	1379.4	1364.7	1340.7	1296.5	1233.9	1145.4
52.5°	1200.7	1198.9	1202.6	1211.8	1208.0	1211.8	1197.1	1178.6	1149.1	1088.4	1011.0
55°	1022.1	1022.1	1022.1	1033.1	1033.1	1033.1	1025.7	1014.8	987.1	942.9	871.1
57.5°	836.1	837.9	849.0	850.8	849.0	852.7	850.8	839.7	821.4	790.1	734.8
60°	679.6	679.6	685.1	690.6	688.7	690.6	690.6	685.1	666.7	640.9	596.7
62.5°	537.7	543.3	539.6	543.3	550.6	543.3	539.6	535.9	523.0	506.4	469.6
65°	407.0	410.7	410.7	412.5	408.8	410.7	403.3	397.8	390.5	372.0	348.1
67.5°	309.4	309.4	309.4	309.4	307.5	305.7	303.9	298.4	285.5	278.1	252.3
70°	237.6	226.5	226.5	226.5	226.5	228.4	222.9	215.5	211.8	198.9	180.5
72.5°	158.3	162.1	158.3	158.3	154.7	156.5	149.2	145.5	141.8	134.5	123.4
75°	114.2	105.0	108.6	110.5	105.0	108.6	101.3	93.9	93.9	88.4	82.9
77.5°	73.7	71.9	73.7	75.5	73.7	71.9	68.1	64.4	64.4	62.6	57.1
80°	53.4	51.5	51.5	51.5	49.7	51.5	47.9	47.9	44.2	42.4	38.7
82.5°	35.0	35.0	33.1	35.0	33.1	35.0	29.5	29.5	29.5	27.6	24.0
85°	24.0	20.2	20.2	22.1	18.4	22.1	20.2	18.4	16.6	16.6	14.7
87.5°	11.1	12.9	11.1	12.9	11.1	11.1	12.9	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°	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6
2.5°	3753.2	3755.0	3755.0	3762.4	3766.0	3767.9	3767.9	3782.6	3777.1	3780.8	3784.5
5°	3699.8	3710.8	3714.5	3714.5	3734.7	3742.1	3749.4	3766.0	3767.9	3778.9	3791.8
7.5°	3648.2	3661.1	3668.5	3685.0	3697.9	3710.8	3732.9	3744.0	3755.0	3769.8	3786.3
10°	3598.4	3613.2	3627.9	3640.8	3661.1	3677.7	3692.4	3718.1	3731.1	3751.3	3773.4
12.5°	3550.6	3570.9	3583.7	3605.8	3627.9	3642.6	3664.8	3688.7	3709.0	3729.2	3755.0
15°	3508.2	3532.2	3546.9	3570.9	3594.8	3615.0	3639.0	3668.5	3683.2	3707.1	3731.1
17.5°	3462.2	3488.0	3506.4	3528.5	3558.0	3580.0	3600.3	3629.8	3648.2	3673.9	3701.6
20°	3414.3	3440.1	3462.2	3484.3	3513.8	3535.8	3559.8	3589.3	3609.5	3635.3	3657.4
22.5°	3357.2	3381.2	3405.1	3430.8	3460.3	3478.8	3506.4	3532.2	3554.3	3578.2	3600.3
25°	3283.6	3313.1	3331.5	3355.3	3379.3	3399.5	3429.0	3454.8	3473.2	3495.4	3515.6
27.5°	3197.0	3219.1	3233.8	3254.1	3278.0	3296.5	3318.5	3344.4	3362.8	3383.0	3397.7
30°	3049.6	3070.0	3082.8	3097.5	3121.5	3138.1	3156.5	3180.4	3193.3	3208.1	3221.0
32.5°	2856.3	2872.9	2880.2	2891.3	2907.9	2924.4	2939.2	2959.4	2965.0	2974.1	2974.1
35°	2576.4	2580.1	2578.2	2581.9	2589.3	2598.5	2611.4	2624.2	2631.6	2631.6	2626.1
37.5°	2248.6	2226.5	2202.6	2184.1	2178.6	2174.9	2182.3	2187.8	2195.2	2198.8	2189.7
40°	1907.9	1858.2	1804.8	1756.8	1723.7	1709.0	1703.5	1707.1	1707.1	1720.0	1720.0
42.5°	1615.1	1537.7	1458.6	1386.7	1338.8	1302.0	1285.4	1285.4	1287.3	1296.5	1302.0
45°	1372.0	1274.4	1182.3	1103.1	1036.8	988.9	966.8	961.3	959.5	963.1	976.0
47.5°	1186.0	1084.7	988.9	891.3	821.4	773.5	753.2	745.8	738.5	745.8	747.7
50°	1040.5	935.5	834.3	736.6	663.0	620.6	594.8	583.7	581.9	581.9	585.6
52.5°	907.9	810.3	709.0	609.6	532.2	491.7	467.8	462.2	454.9	462.2	462.2
55°	782.6	685.1	585.6	491.7	427.2	384.9	362.8	355.4	351.7	357.3	357.3
57.5°	646.4	563.5	471.5	386.7	322.3	292.8	276.2	267.0	265.2	268.9	265.2
60°	530.4	460.4	381.2	303.9	254.2	222.9	210.0	206.3	202.5	206.3	206.3
62.5°	419.9	361.0	296.5	237.6	195.2	173.1	158.3	158.3	156.5	156.5	158.3
65°	311.2	265.2	219.1	169.4	136.3	119.7	108.6	108.6	106.8	108.6	106.8
67.5°	226.5	195.2	158.3	123.4	97.6	88.4	81.0	75.5	79.2	75.5	73.7
70°	165.8	139.9	114.2	93.9	75.5	66.3	60.8	58.9	55.3	55.3	55.3
72.5°	110.5	93.9	77.3	60.8	49.7	40.5	38.7	35.0	31.3	33.1	36.8
75°	73.7	62.6	55.3	44.2	33.1	33.1	22.1	22.1	18.4	22.1	16.6
77.5°	51.5	42.4	33.1	27.6	22.1	20.2	14.7	14.7	12.9	12.9	12.9
80°	36.8	31.3	24.0	20.2	14.7	14.7	12.9	11.1	9.2	9.2	11.1
82.5°	22.1	16.6	16.6	14.7	9.2	7.4	5.5	7.4	3.7	3.7	3.7
85°	12.9	11.1	9.2	5.5	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°	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6
2.5°	3793.7	3791.8	3795.5	3795.5	3806.6	3804.7	3810.2	3810.2	3806.6	3808.4	3815.8
5°	3806.6	3812.1	3823.1	3832.4	3848.9	3856.3	3865.5	3874.7	3876.6	3882.1	3887.6
7.5°	3806.6	3825.0	3837.9	3854.4	3876.6	3889.4	3909.7	3926.3	3933.6	3942.8	3953.9
10°	3799.2	3817.6	3841.5	3860.0	3887.6	3907.9	3928.1	3953.9	3964.9	3979.6	3994.4
12.5°	3784.5	3804.7	3830.5	3854.4	3885.7	3904.2	3929.9	3953.9	3970.5	3990.7	4007.3
15°	3762.4	3786.3	3810.2	3834.2	3867.3	3889.4	3913.4	3941.0	3957.6	3979.6	3994.4
17.5°	3727.4	3753.2	3775.3	3797.3	3828.7	3854.4	3876.6	3902.3	3918.9	3937.4	3957.6
20°	3685.0	3709.0	3732.9	3751.3	3782.6	3804.7	3828.7	3852.6	3865.5	3869.2	3900.5
22.5°	3631.6	3648.2	3666.6	3696.1	3714.5	3734.7	3756.9	3778.9	3791.8	3812.1	3823.1
25°	3543.2	3559.8	3580.0	3592.9	3615.0	3631.6	3653.7	3677.7	3685.0	3699.8	3710.8
27.5°	3419.9	3429.0	3438.3	3449.3	3462.2	3471.4	3484.3	3495.4	3502.7	3510.1	3517.4
30°	3224.6	3224.6	3224.6	3217.2	3222.8	3228.3	3230.1	3228.3	3228.3	3226.5	3226.5
32.5°	2966.8	2952.1	2935.5	2920.8	2915.2	2907.9	2904.2	2898.6	2889.5	2883.9	2885.8
35°	2618.7	2585.6	2565.3	2546.9	2532.2	2521.2	2515.6	2510.1	2508.3	2500.9	2493.5
37.5°	2184.1	2160.2	2145.5	2134.4	2121.5	2110.5	2112.3	2114.2	2119.6	2116.0	2117.8
40°	1723.7	1718.2	1723.7	1710.8	1707.1	1710.8	1720.0	1733.0	1740.3	1747.7	1760.6
42.5°	1311.2	1320.4	1333.3	1333.3	1338.8	1346.2	1357.2	1377.5	1388.5	1401.4	1416.2
45°	987.1	998.2	1014.8	1020.2	1023.9	1033.1	1046.1	1062.6	1069.9	1081.0	1093.9
47.5°	760.6	767.9	777.1	786.4	795.5	799.3	812.1	812.1	821.4	828.7	832.4
50°	593.0	600.3	607.7	613.2	616.9	622.5	626.1	631.7	633.5	637.2	639.0
52.5°	464.1	473.3	473.3	476.9	482.5	488.0	486.2	488.0	489.8	489.8	495.4
55°	362.8	362.8	368.3	368.3	372.0	370.1	372.0	372.0	372.0	372.0	373.9
57.5°	270.7	272.6	278.1	274.4	272.6	276.2	272.6	276.2	274.4	278.1	272.6
60°	208.1	208.1	210.0	210.0	211.8	211.8	211.8	210.0	210.0	208.1	208.1
62.5°	156.5	158.3	160.2	158.3	158.3	158.3	156.5	156.5	154.7	152.8	152.8
65°	105.0	103.2	106.8	103.2	105.0	105.0	103.2	105.0	99.5	101.3	99.5
67.5°	75.5	73.7	71.9	73.7	71.9	70.0	70.0	71.9	73.7	68.1	68.1
70°	49.7	51.5	49.7	51.5	53.4	53.4	51.5	49.7	51.5	47.9	49.7
72.5°	31.3	31.3	31.3	31.3	31.3	33.1	33.1	33.1	29.5	29.5	27.6
75°	14.7	20.2	16.6	14.7	20.2	20.2	18.4	18.4	16.6	16.6	16.6
77.5°	14.7	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	5.5	7.4	7.4	9.2	7.4	7.4	5.5	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: P249038

CATALOG NUMBER: LD8B70D010 ER8B70935 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6
2.5°	3813.9	3812.1	3813.9	3815.8	3813.9	3812.1	3813.9	3815.8	3808.4	3806.6	3810.2
5°	3895.0	3895.0	3898.6	3900.5	3898.6	3895.0	3895.0	3887.6	3882.1	3876.6	3874.7
7.5°	3964.9	3968.7	3972.3	3974.1	3972.3	3968.7	3964.9	3953.9	3942.8	3933.6	3926.3
10°	4007.3	4012.9	4020.2	4023.8	4020.2	4012.9	4007.3	3994.4	3979.6	3964.9	3953.9
12.5°	4025.7	4031.3	4040.4	4038.6	4040.4	4031.3	4025.7	4007.3	3990.7	3970.5	3953.9
15°	4012.9	4020.2	4029.4	4033.1	4029.4	4020.2	4012.9	3994.4	3979.6	3957.6	3941.0
17.5°	3972.3	3983.4	3988.9	3994.4	3988.9	3983.4	3972.3	3957.6	3937.4	3918.9	3902.3
20°	3917.0	3924.5	3931.8	3933.6	3931.8	3924.5	3917.0	3900.5	3869.2	3865.5	3852.6
22.5°	3837.9	3843.4	3860.0	3854.4	3860.0	3843.4	3837.9	3823.1	3812.1	3791.8	3778.9
25°	3723.7	3729.2	3731.1	3732.9	3731.1	3729.2	3723.7	3710.8	3699.8	3685.0	3677.7
27.5°	3526.7	3526.7	3530.3	3532.2	3530.3	3526.7	3526.7	3517.4	3510.1	3502.7	3495.4
30°	3228.3	3228.3	3228.3	3237.6	3228.3	3228.3	3228.3	3226.5	3226.5	3228.3	3228.3
32.5°	2883.9	2880.2	2876.6	2880.2	2876.6	2880.2	2883.9	2885.8	2883.9	2889.5	2898.6
35°	2493.5	2491.7	2497.2	2489.8	2497.2	2491.7	2493.5	2493.5	2500.9	2508.3	2510.1
37.5°	2119.6	2116.0	2123.3	2116.0	2123.3	2116.0	2119.6	2117.8	2116.0	2119.6	2114.2
40°	1764.3	1767.9	1767.9	1782.7	1767.9	1767.9	1764.3	1760.6	1747.7	1740.3	1733.0
42.5°	1423.6	1434.6	1430.9	1442.0	1430.9	1434.6	1423.6	1416.2	1401.4	1388.5	1377.5
45°	1101.2	1108.7	1108.7	1112.3	1108.7	1108.7	1101.2	1093.9	1081.0	1069.9	1062.6
47.5°	845.3	845.3	845.3	847.2	845.3	845.3	845.3	832.4	828.7	821.4	812.1
50°	642.7	644.5	646.4	648.3	646.4	644.5	642.7	639.0	637.2	633.5	631.7
52.5°	493.5	495.4	491.7	495.4	491.7	495.4	493.5	495.4	489.8	489.8	488.0
55°	373.9	372.0	373.9	375.7	373.9	372.0	373.9	373.9	372.0	372.0	372.0
57.5°	274.4	270.7	270.7	270.7	270.7	270.7	274.4	272.6	278.1	274.4	276.2
60°	204.4	206.3	206.3	208.1	206.3	206.3	204.4	208.1	208.1	210.0	210.0
62.5°	151.0	156.5	152.8	156.5	152.8	156.5	151.0	152.8	152.8	154.7	156.5
65°	97.6	97.6	97.6	99.5	97.6	97.6	97.6	99.5	101.3	99.5	105.0
67.5°	66.3	68.1	71.9	70.0	71.9	68.1	66.3	68.1	68.1	73.7	71.9
70°	53.4	47.9	47.9	53.4	47.9	47.9	53.4	49.7	47.9	51.5	49.7
72.5°	31.3	27.6	31.3	31.3	31.3	27.6	31.3	27.6	29.5	29.5	33.1
75°	16.6	14.7	12.9	18.4	12.9	14.7	16.6	16.6	16.6	16.6	18.4
77.5°	11.1	9.2	12.9	12.9	12.9	9.2	11.1	9.2	11.1	9.2	11.1
80°	5.5	7.4	5.5	9.2	5.5	7.4	5.5	9.2	5.5	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: P249038

CATALOG NUMBER: LD8B70D010 ER8B70935 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6
2.5°	3810.2	3804.7	3806.6	3795.5	3795.5	3791.8	3793.7	3784.5	3780.8	3777.1	3782.6
5°	3865.5	3856.3	3848.9	3832.4	3823.1	3812.1	3806.6	3791.8	3778.9	3767.9	3766.0
7.5°	3909.7	3889.4	3876.6	3854.4	3837.9	3825.0	3806.6	3786.3	3769.8	3755.0	3744.0
10°	3928.1	3907.9	3887.6	3860.0	3841.5	3817.6	3799.2	3773.4	3751.3	3731.1	3718.1
12.5°	3929.9	3904.2	3885.7	3854.4	3830.5	3804.7	3784.5	3755.0	3729.2	3709.0	3688.7
15°	3913.4	3889.4	3867.3	3834.2	3810.2	3786.3	3762.4	3731.1	3707.1	3683.2	3668.5
17.5°	3876.6	3854.4	3828.7	3797.3	3775.3	3753.2	3727.4	3701.6	3673.9	3648.2	3629.8
20°	3828.7	3804.7	3782.6	3751.3	3732.9	3709.0	3685.0	3657.4	3635.3	3609.5	3589.3
22.5°	3756.9	3734.7	3714.5	3696.1	3666.6	3648.2	3631.6	3600.3	3578.2	3554.3	3532.2
25°	3653.7	3631.6	3615.0	3592.9	3580.0	3559.8	3543.2	3515.6	3495.4	3473.2	3454.8
27.5°	3484.3	3471.4	3462.2	3449.3	3438.3	3429.0	3419.9	3397.7	3383.0	3362.8	3344.4
30°	3230.1	3228.3	3222.8	3217.2	3224.6	3224.6	3224.6	3221.0	3208.1	3193.3	3180.4
32.5°	2904.2	2907.9	2915.2	2920.8	2935.5	2952.1	2966.8	2974.1	2974.1	2965.0	2959.4
35°	2515.6	2521.2	2532.2	2546.9	2565.3	2585.6	2618.7	2626.1	2631.6	2631.6	2624.2
37.5°	2112.3	2110.5	2121.5	2134.4	2145.5	2160.2	2184.1	2189.7	2198.8	2195.2	2187.8
40°	1720.0	1710.8	1707.1	1710.8	1723.7	1718.2	1723.7	1720.0	1720.0	1707.1	1707.1
42.5°	1357.2	1346.2	1338.8	1333.3	1333.3	1320.4	1311.2	1302.0	1296.5	1287.3	1285.4
45°	1046.1	1033.1	1023.9	1020.2	1014.8	998.2	987.1	976.0	963.1	959.5	961.3
47.5°	812.1	799.3	795.5	786.4	777.1	767.9	760.6	747.7	745.8	738.5	745.8
50°	626.1	622.5	616.9	613.2	607.7	600.3	593.0	585.6	581.9	581.9	583.7
52.5°	486.2	488.0	482.5	476.9	473.3	473.3	464.1	462.2	462.2	454.9	462.2
55°	372.0	370.1	372.0	368.3	368.3	362.8	362.8	357.3	357.3	351.7	355.4
57.5°	272.6	276.2	272.6	274.4	278.1	272.6	270.7	265.2	268.9	265.2	267.0
60°	211.8	211.8	211.8	210.0	210.0	208.1	208.1	206.3	206.3	202.5	206.3
62.5°	156.5	158.3	158.3	158.3	160.2	158.3	156.5	158.3	156.5	156.5	158.3
65°	103.2	105.0	105.0	103.2	106.8	103.2	105.0	106.8	108.6	106.8	108.6
67.5°	70.0	70.0	71.9	73.7	71.9	73.7	75.5	73.7	75.5	79.2	75.5
70°	51.5	53.4	53.4	51.5	49.7	51.5	49.7	55.3	55.3	55.3	58.9
72.5°	33.1	33.1	31.3	31.3	31.3	31.3	31.3	36.8	33.1	31.3	35.0
75°	18.4	20.2	20.2	14.7	16.6	20.2	14.7	16.6	22.1	18.4	22.1
77.5°	11.1	11.1	11.1	11.1	11.1	11.1	14.7	12.9	12.9	12.9	14.7
80°	9.2	7.4	7.4	5.5	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: P249038

CATALOG NUMBER: LD8B70D010 ER8B70935 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6
2.5°	3767.9	3767.9	3766.0	3762.4	3755.0	3755.0	3753.2	3747.6	3744.0	3742.1	3742.1
5°	3749.4	3742.1	3734.7	3714.5	3714.5	3710.8	3699.8	3692.4	3688.7	3679.5	3675.8
7.5°	3732.9	3710.8	3697.9	3685.0	3668.5	3661.1	3648.2	3642.6	3629.8	3620.6	3615.0
10°	3692.4	3677.7	3661.1	3640.8	3627.9	3613.2	3598.4	3587.5	3570.9	3561.6	3554.3
12.5°	3664.8	3642.6	3627.9	3605.8	3583.7	3570.9	3550.6	3537.7	3521.1	3502.7	3491.6
15°	3639.0	3615.0	3594.8	3570.9	3546.9	3532.2	3508.2	3493.5	3469.6	3451.2	3438.3
17.5°	3600.3	3580.0	3558.0	3528.5	3506.4	3488.0	3462.2	3443.8	3421.7	3397.7	3384.8
20°	3559.8	3535.8	3513.8	3484.3	3462.2	3440.1	3414.3	3394.1	3368.2	3346.2	3331.5
22.5°	3506.4	3478.8	3460.3	3430.8	3405.1	3381.2	3357.2	3333.3	3309.3	3290.9	3274.3
25°	3429.0	3399.5	3379.3	3355.3	3331.5	3313.1	3283.6	3268.9	3244.9	3228.3	3211.7
27.5°	3318.5	3296.5	3278.0	3254.1	3233.8	3219.1	3197.0	3182.3	3162.0	3147.3	3134.4
30°	3156.5	3138.1	3121.5	3097.5	3082.8	3070.0	3049.6	3036.8	3022.1	3005.5	3001.8
32.5°	2939.2	2924.4	2907.9	2891.3	2880.2	2872.9	2856.3	2848.9	2834.2	2825.0	2815.8
35°	2611.4	2598.5	2589.3	2581.9	2578.2	2580.1	2576.4	2583.8	2587.4	2585.6	2587.4
37.5°	2182.3	2174.9	2178.6	2184.1	2202.6	2226.5	2248.6	2281.7	2303.8	2326.0	2346.2
40°	1703.5	1709.0	1723.7	1756.8	1804.8	1858.2	1907.9	1970.5	2033.1	2077.3	2117.8
42.5°	1285.4	1302.0	1338.8	1386.7	1458.6	1537.7	1615.1	1707.1	1782.7	1856.3	1907.9
45°	966.8	988.9	1036.8	1103.1	1182.3	1274.4	1372.0	1475.1	1565.4	1640.9	1698.0
47.5°	753.2	773.5	821.4	891.3	988.9	1084.7	1186.0	1292.8	1386.7	1460.4	1510.1
50°	594.8	620.6	663.0	736.6	834.3	935.5	1040.5	1145.4	1233.9	1296.5	1340.7
52.5°	467.8	491.7	532.2	609.6	709.0	810.3	907.9	1011.0	1088.4	1149.1	1178.6
55°	362.8	384.9	427.2	491.7	585.6	685.1	782.6	871.1	942.9	987.1	1014.8
57.5°	276.2	292.8	322.3	386.7	471.5	563.5	646.4	734.8	790.1	821.4	839.7
60°	210.0	222.9	254.2	303.9	381.2	460.4	530.4	596.7	640.9	666.7	685.1
62.5°	158.3	173.1	195.2	237.6	296.5	361.0	419.9	469.6	506.4	523.0	535.9
65°	108.6	119.7	136.3	169.4	219.1	265.2	311.2	348.1	372.0	390.5	397.8
67.5°	81.0	88.4	97.6	123.4	158.3	195.2	226.5	252.3	278.1	285.5	298.4
70°	60.8	66.3	75.5	93.9	114.2	139.9	165.8	180.5	198.9	211.8	215.5
72.5°	38.7	40.5	49.7	60.8	77.3	93.9	110.5	123.4	134.5	141.8	145.5
75°	22.1	33.1	33.1	44.2	55.3	62.6	73.7	82.9	88.4	93.9	93.9
77.5°	14.7	20.2	22.1	27.6	33.1	42.4	51.5	57.1	62.6	64.4	64.4
80°	12.9	14.7	14.7	20.2	24.0	31.3	36.8	38.7	42.4	44.2	47.9
82.5°	5.5	7.4	9.2	14.7	16.6	16.6	22.1	24.0	27.6	29.5	29.5
85°	1.8	3.7	3.7	5.5	9.2	11.1	12.9	14.7	16.6	16.6	18.4
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: P249038

CATALOG NUMBER: LD8B70D010 ER8B70935 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6
2.5°	3738.4	3740.3	3732.9	3731.1	3727.4	3729.2	3732.9
5°	3670.3	3672.1	3664.8	3657.4	3657.4	3655.5	3657.4
7.5°	3605.8	3607.7	3596.6	3592.9	3585.6	3587.5	3587.5
10°	3541.4	3541.4	3524.8	3522.9	3517.4	3515.6	3515.6
12.5°	3478.8	3473.2	3460.3	3453.0	3456.7	3445.6	3445.6
15°	3423.5	3414.3	3397.7	3392.2	3383.0	3379.3	3379.3
17.5°	3366.4	3359.1	3344.4	3333.3	3322.2	3320.4	3322.2
20°	3311.2	3303.8	3285.4	3278.0	3268.9	3268.9	3265.1
22.5°	3255.9	3248.5	3232.0	3226.5	3213.6	3213.6	3215.4
25°	3198.8	3193.3	3174.9	3171.2	3169.4	3162.0	3165.7
27.5°	3121.5	3117.8	3103.1	3097.5	3090.2	3088.4	3092.0
30°	2979.7	2974.1	2963.2	2957.6	2944.7	2946.6	2950.2
32.5°	2802.9	2795.6	2780.8	2775.2	2764.2	2760.5	2762.4
35°	2581.9	2576.4	2563.5	2563.5	2552.5	2548.7	2552.5
37.5°	2357.3	2362.7	2357.3	2362.7	2357.3	2355.4	2357.3
40°	2145.5	2165.7	2169.4	2189.7	2182.3	2193.3	2191.5
42.5°	1942.9	1976.0	1989.0	2005.5	2001.8	2009.2	2014.7
45°	1738.4	1766.1	1779.0	1790.1	1791.9	1795.6	1797.4
47.5°	1545.1	1567.2	1569.0	1581.9	1580.1	1580.1	1585.6
50°	1364.7	1379.4	1383.0	1392.2	1384.9	1381.2	1383.0
52.5°	1197.1	1211.8	1208.0	1211.8	1202.6	1198.9	1200.7
55°	1025.7	1033.1	1033.1	1033.1	1022.1	1022.1	1022.1
57.5°	850.8	852.7	849.0	850.8	849.0	837.9	836.1
60°	690.6	690.6	688.7	690.6	685.1	679.6	679.6
62.5°	539.6	543.3	550.6	543.3	539.6	543.3	537.7
65°	403.3	410.7	408.8	412.5	410.7	410.7	407.0
67.5°	303.9	305.7	307.5	309.4	309.4	309.4	309.4
70°	222.9	228.4	226.5	226.5	226.5	226.5	237.6
72.5°	149.2	156.5	154.7	158.3	158.3	162.1	158.3
75°	101.3	108.6	105.0	110.5	108.6	105.0	114.2
77.5°	68.1	71.9	73.7	75.5	73.7	71.9	73.7
80°	47.9	51.5	49.7	51.5	51.5	51.5	53.4
82.5°	29.5	35.0	33.1	35.0	33.1	35.0	35.0
85°	20.2	22.1	18.4	22.1	20.2	20.2	24.0
87.5°	12.9	11.1	11.1	12.9	11.1	12.9	11.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)