

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: P248743

Luminaire Tested: **LD8B90D010 ER8B909727 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248743
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: LD8B90D010 ER8B909727 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6507.0 lumens
Efficiency: N/A
Efficacy: 75.6 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

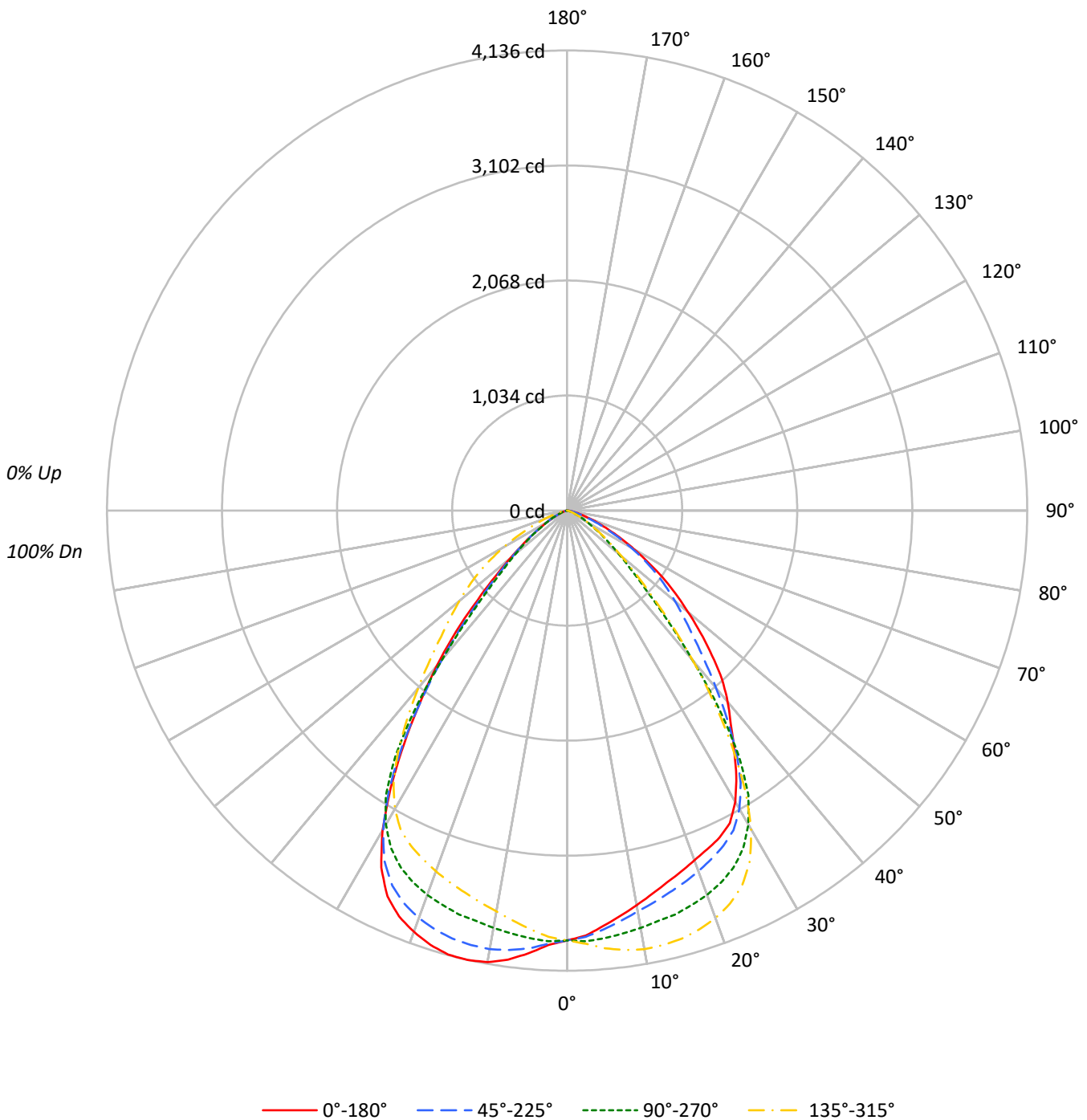
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	367.7	5.7
10°-20°	1064.7	16.4
20°-30°	1612.3	24.8
30°-40°	1615.9	24.8
40°-50°	1014.7	15.6
50°-60°	540.7	8.3
60°-70°	222.4	3.4
70°-80°	58.7	0.9
80°-90°	9.9	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°	3044.7	46.8
0°-40°	4660.6	71.6
0°-60°	6216.0	95.5
0°-90°	6507.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6507.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3863	3863	3863	3863	3863	
5°	3746	3857	3995	3857	3746	353
15°	3461	3757	4131	3757	3461	979
25°	3242	3538	3823	3538	3242	1487
35°	2614	2688	2550	2688	2614	1638
45°	1841	985	1139	985	1841	1416
55°	1047	364	385	364	1047	933
65°	417	111	102	111	417	432
75°	117	23	19	23	117	132
85°	24	0	2	0	24	27
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°	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0
2.5°	3823.4	3819.6	3817.7	3821.5	3823.4	3830.9	3829.1	3832.8	3832.8	3834.7	3838.5
5°	3746.1	3744.1	3746.1	3746.1	3753.6	3761.1	3759.3	3764.9	3768.7	3778.1	3781.9
7.5°	3674.4	3674.4	3672.5	3680.0	3683.8	3695.1	3693.2	3702.7	3708.3	3717.7	3730.9
10°	3600.8	3600.8	3602.7	3608.3	3610.3	3627.2	3627.2	3640.4	3647.9	3657.4	3674.4
12.5°	3529.2	3529.2	3540.5	3536.7	3544.2	3557.4	3563.1	3576.3	3587.6	3606.5	3623.5
15°	3461.2	3461.2	3465.0	3474.4	3480.1	3497.1	3506.5	3521.6	3534.8	3553.7	3578.2
17.5°	3402.8	3400.9	3402.8	3414.1	3425.4	3440.5	3448.0	3466.9	3480.1	3504.6	3527.3
20°	3344.3	3348.1	3348.1	3357.5	3365.0	3383.9	3391.4	3412.2	3427.3	3449.9	3476.4
22.5°	3293.4	3291.5	3291.5	3304.7	3310.4	3327.3	3334.8	3353.7	3370.7	3389.6	3414.1
25°	3242.4	3238.6	3246.2	3248.1	3251.8	3270.7	3276.4	3289.6	3306.6	3323.6	3348.1
27.5°	3167.0	3163.2	3165.1	3172.6	3178.3	3193.4	3197.2	3210.4	3223.6	3238.6	3259.4
30°	3021.7	3018.0	3016.1	3029.3	3035.0	3046.2	3051.9	3074.6	3078.3	3095.3	3110.4
32.5°	2829.3	2827.5	2831.3	2842.5	2848.2	2863.3	2870.9	2884.1	2893.4	2902.9	2918.0
35°	2614.3	2610.5	2614.3	2625.7	2625.7	2638.9	2644.5	2650.1	2648.3	2650.1	2646.4
37.5°	2414.4	2412.5	2414.4	2420.0	2414.4	2420.0	2414.4	2403.1	2382.3	2359.7	2337.0
40°	2244.6	2246.5	2235.2	2242.8	2221.9	2218.2	2197.5	2169.2	2127.7	2082.4	2018.3
42.5°	2063.6	2057.9	2050.4	2054.1	2037.2	2023.9	1990.0	1954.2	1901.3	1825.9	1748.5
45°	1841.0	1839.1	1835.3	1833.4	1822.1	1808.9	1780.6	1739.1	1680.6	1603.3	1510.9
47.5°	1624.0	1618.4	1618.4	1620.2	1607.0	1605.2	1582.5	1546.7	1495.8	1420.3	1324.1
50°	1416.5	1414.7	1418.5	1426.0	1416.5	1412.8	1397.7	1373.2	1327.9	1263.8	1173.2
52.5°	1229.8	1227.9	1231.7	1241.1	1237.3	1241.1	1226.1	1207.2	1177.0	1114.7	1035.5
55°	1046.9	1046.9	1046.9	1058.1	1058.1	1058.1	1050.6	1039.4	1011.0	965.7	892.2
57.5°	856.4	858.2	869.6	871.4	869.6	873.4	871.4	860.1	841.3	809.2	752.6
60°	696.0	696.0	701.7	707.4	705.4	707.4	707.4	701.7	682.8	656.4	611.2
62.5°	550.8	556.4	552.6	556.4	564.0	556.4	552.6	548.9	535.7	518.7	481.0
65°	416.8	420.6	420.6	422.5	418.7	420.6	413.1	407.4	399.9	381.1	356.5
67.5°	316.9	316.9	316.9	316.9	315.0	313.1	311.3	305.6	292.4	284.9	258.4
70°	243.3	232.0	232.0	232.0	232.0	233.9	228.3	220.7	216.9	203.7	184.9
72.5°	162.2	166.0	162.2	162.2	158.5	160.3	152.8	149.0	145.3	137.7	126.4
75°	116.9	107.5	111.3	113.2	107.5	111.3	103.7	96.2	96.2	90.5	84.9
77.5°	75.5	73.6	75.5	77.3	75.5	73.6	69.8	66.0	66.0	64.1	58.5
80°	54.7	52.8	52.8	52.8	50.9	52.8	49.1	49.1	45.3	43.4	39.6
82.5°	35.9	35.9	33.9	35.9	33.9	35.9	30.2	30.2	30.2	28.3	24.5
85°	24.5	20.7	20.7	22.7	18.9	22.7	20.7	18.9	17.0	17.0	15.1
87.5°	11.3	13.2	11.3	13.2	11.3	11.3	13.2	11.3	11.3	7.5	7.5
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°	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0
2.5°	3844.1	3846.0	3846.0	3853.6	3857.3	3859.2	3859.2	3874.3	3868.7	3872.5	3876.2
5°	3789.5	3800.7	3804.5	3804.5	3825.3	3832.8	3840.3	3857.3	3859.2	3870.5	3883.7
7.5°	3736.6	3749.8	3757.4	3774.3	3787.5	3800.7	3823.4	3834.7	3846.0	3861.1	3878.1
10°	3685.7	3700.8	3715.9	3729.1	3749.8	3766.8	3781.9	3808.3	3821.5	3842.3	3864.9
12.5°	3636.7	3657.4	3670.6	3693.2	3715.9	3730.9	3753.6	3778.1	3798.9	3819.6	3846.0
15°	3593.3	3617.8	3632.9	3657.4	3681.9	3702.7	3727.2	3757.4	3772.5	3797.0	3821.5
17.5°	3546.1	3572.6	3591.4	3614.0	3644.2	3666.8	3687.6	3717.7	3736.6	3763.0	3791.3
20°	3497.1	3523.5	3546.1	3568.7	3599.0	3621.5	3646.1	3676.3	3697.0	3723.4	3746.1
22.5°	3438.6	3463.2	3487.6	3514.0	3544.2	3563.1	3591.4	3617.8	3640.4	3664.9	3687.6
25°	3363.2	3393.4	3412.2	3436.7	3461.2	3481.9	3512.1	3538.5	3557.4	3580.1	3600.8
27.5°	3274.5	3297.2	3312.2	3333.0	3357.5	3376.4	3399.0	3425.4	3444.3	3465.0	3480.1
30°	3123.6	3144.4	3157.6	3172.6	3197.2	3214.2	3233.0	3257.5	3270.7	3285.8	3299.0
32.5°	2925.5	2942.5	2950.0	2961.4	2978.4	2995.3	3010.4	3031.2	3036.8	3046.2	3046.2
35°	2638.9	2642.6	2640.7	2644.5	2652.1	2661.5	2674.7	2687.9	2695.4	2695.4	2689.8
37.5°	2303.1	2280.5	2256.0	2237.1	2231.4	2227.6	2235.2	2240.8	2248.4	2252.1	2242.8
40°	1954.2	1903.2	1848.5	1799.4	1765.5	1750.4	1744.8	1748.5	1748.5	1761.7	1761.7
42.5°	1654.3	1575.0	1493.9	1420.3	1371.3	1333.6	1316.6	1316.6	1318.5	1327.9	1333.6
45°	1405.3	1305.3	1210.9	1129.9	1061.9	1012.9	990.3	984.6	982.8	986.5	999.7
47.5°	1214.7	1111.0	1012.9	913.0	841.3	792.2	771.5	763.9	756.4	763.9	765.8
50°	1065.7	958.2	854.5	754.5	679.0	635.6	609.2	597.9	596.0	596.0	599.8
52.5°	929.9	830.0	726.2	624.4	545.1	503.6	479.1	473.4	465.9	473.4	473.4
55°	801.6	701.7	599.8	503.6	437.6	394.3	371.6	364.0	360.2	365.9	365.9
57.5°	662.1	577.2	482.9	396.1	330.1	299.9	282.9	273.5	271.6	275.4	271.6
60°	543.2	471.6	390.4	311.3	260.3	228.3	215.1	211.3	207.5	211.3	211.3
62.5°	430.0	369.7	303.6	243.3	199.9	177.3	162.2	162.2	160.3	160.3	162.2
65°	318.8	271.6	224.5	173.5	139.6	122.6	111.3	111.3	109.4	111.3	109.4
67.5°	232.0	199.9	162.2	126.4	100.0	90.5	83.0	77.3	81.1	77.3	75.5
70°	169.8	143.3	116.9	96.2	77.3	67.9	62.3	60.3	56.6	56.6	56.6
72.5°	113.2	96.2	79.2	62.3	50.9	41.5	39.6	35.9	32.1	33.9	37.7
75°	75.5	64.1	56.6	45.3	33.9	33.9	22.7	22.7	18.9	22.7	17.0
77.5°	52.8	43.4	33.9	28.3	22.7	20.7	15.1	15.1	13.2	13.2	13.2
80°	37.7	32.1	24.5	20.7	15.1	15.1	13.2	11.3	9.4	9.4	11.3
82.5°	22.7	17.0	17.0	15.1	9.4	7.5	5.7	7.5	3.8	3.8	3.8
85°	13.2	11.3	9.4	5.7	3.8	3.8	1.9	0.0	1.9	1.9	0.0
87.5°	7.5	3.8	3.8	1.9	0.0	1.9	1.9	0.0	0.0	0.0	3.8
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°	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0
2.5°	3885.7	3883.7	3887.5	3887.5	3898.9	3896.9	3902.6	3902.6	3898.9	3900.7	3908.3
5°	3898.9	3904.5	3915.8	3925.3	3942.2	3949.8	3959.2	3968.7	3970.5	3976.2	3981.9
7.5°	3898.9	3917.7	3930.9	3947.9	3970.5	3983.7	4004.5	4021.5	4029.0	4038.4	4049.7
10°	3891.3	3910.1	3934.7	3953.5	3981.9	4002.6	4023.3	4049.7	4061.1	4076.1	4091.3
12.5°	3876.2	3896.9	3923.3	3947.9	3979.9	3998.8	4025.2	4049.7	4066.7	4087.5	4104.5
15°	3853.6	3878.1	3902.6	3927.1	3961.1	3983.7	4008.3	4036.5	4053.5	4076.1	4091.3
17.5°	3817.7	3844.1	3866.8	3889.4	3921.5	3947.9	3970.5	3996.9	4013.9	4032.8	4053.5
20°	3774.3	3798.9	3823.4	3842.3	3874.3	3896.9	3921.5	3946.0	3959.2	3963.0	3995.1
22.5°	3719.7	3736.6	3755.5	3785.7	3804.5	3825.3	3847.9	3870.5	3883.7	3904.5	3915.8
25°	3629.1	3646.1	3666.8	3680.0	3702.7	3719.7	3742.3	3766.8	3774.3	3789.5	3800.7
27.5°	3502.8	3512.1	3521.6	3532.9	3546.1	3555.5	3568.7	3580.1	3587.6	3595.1	3602.7
30°	3302.8	3302.8	3302.8	3295.2	3300.9	3306.6	3308.4	3306.6	3306.6	3304.7	3304.7
32.5°	3038.7	3023.6	3006.6	2991.6	2985.9	2978.4	2974.6	2968.9	2959.5	2953.8	2955.7
35°	2682.2	2648.3	2627.5	2608.7	2593.6	2582.3	2576.6	2570.9	2569.1	2561.5	2553.9
37.5°	2237.1	2212.6	2197.5	2186.2	2173.0	2161.6	2163.5	2165.4	2171.0	2167.3	2169.2
40°	1765.5	1759.8	1765.5	1752.3	1748.5	1752.3	1761.7	1775.0	1782.5	1790.0	1803.2
42.5°	1343.0	1352.4	1365.7	1365.7	1371.3	1378.9	1390.1	1410.9	1422.2	1435.4	1450.5
45°	1011.0	1022.3	1039.4	1044.9	1048.7	1058.1	1071.4	1088.3	1095.9	1107.2	1120.4
47.5°	779.0	786.6	796.0	805.4	814.8	818.6	831.8	831.8	841.3	848.8	852.6
50°	607.4	614.9	622.4	628.1	631.9	637.6	641.3	647.0	648.8	652.6	654.5
52.5°	475.3	484.8	484.8	488.5	494.2	499.8	498.0	499.8	501.7	501.7	507.4
55°	371.6	371.6	377.2	377.2	381.1	379.1	381.1	381.1	381.1	381.1	382.9
57.5°	277.2	279.2	284.9	281.1	279.2	282.9	279.2	282.9	281.1	284.9	279.2
60°	213.1	213.1	215.1	215.1	216.9	216.9	216.9	215.1	215.1	213.1	213.1
62.5°	160.3	162.2	164.1	162.2	162.2	162.2	160.3	160.3	158.5	156.5	156.5
65°	107.5	105.7	109.4	105.7	107.5	107.5	105.7	107.5	101.9	103.7	101.9
67.5°	77.3	75.5	73.6	75.5	73.6	71.7	71.7	73.6	75.5	69.8	69.8
70°	50.9	52.8	50.9	52.8	54.7	54.7	52.8	50.9	52.8	49.1	50.9
72.5°	32.1	32.1	32.1	32.1	32.1	33.9	33.9	33.9	30.2	30.2	28.3
75°	15.1	20.7	17.0	15.1	20.7	20.7	18.9	18.9	17.0	17.0	17.0
77.5°	15.1	11.3	11.3	11.3	11.3	11.3	11.3	11.3	9.4	11.3	9.4
80°	7.5	7.5	7.5	5.7	7.5	7.5	9.4	7.5	7.5	5.7	9.4
82.5°	3.8	3.8	3.8	0.0	1.9	3.8	3.8	1.9	3.8	3.8	1.9
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: P248743

CATALOG NUMBER: LD8B90D010 ER8B909727 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0
2.5°	3906.4	3904.5	3906.4	3908.3	3906.4	3904.5	3906.4	3908.3	3900.7	3898.9	3902.6
5°	3989.4	3989.4	3993.1	3995.1	3993.1	3989.4	3989.4	3981.9	3976.2	3970.5	3968.7
7.5°	4061.1	4064.9	4068.6	4070.5	4068.6	4064.9	4061.1	4049.7	4038.4	4029.0	4021.5
10°	4104.5	4110.1	4117.7	4121.4	4117.7	4110.1	4104.5	4091.3	4076.1	4061.1	4049.7
12.5°	4123.3	4129.0	4138.4	4136.5	4138.4	4129.0	4123.3	4104.5	4087.5	4066.7	4049.7
15°	4110.1	4117.7	4127.0	4130.9	4127.0	4117.7	4110.1	4091.3	4076.1	4053.5	4036.5
17.5°	4068.6	4079.9	4085.6	4091.3	4085.6	4079.9	4068.6	4053.5	4032.8	4013.9	3996.9
20°	4012.0	4019.6	4027.1	4029.0	4027.1	4019.6	4012.0	3995.1	3963.0	3959.2	3946.0
22.5°	3930.9	3936.6	3953.5	3947.9	3953.5	3936.6	3930.9	3915.8	3904.5	3883.7	3870.5
25°	3813.9	3819.6	3821.5	3823.4	3821.5	3819.6	3813.9	3800.7	3789.5	3774.3	3766.8
27.5°	3612.1	3612.1	3615.9	3617.8	3615.9	3612.1	3612.1	3602.7	3595.1	3587.6	3580.1
30°	3306.6	3306.6	3306.6	3316.0	3306.6	3306.6	3306.6	3304.7	3304.7	3306.6	3306.6
32.5°	2953.8	2950.0	2946.3	2950.0	2946.3	2950.0	2953.8	2955.7	2953.8	2959.5	2968.9
35°	2553.9	2552.1	2557.7	2550.2	2557.7	2552.1	2553.9	2553.9	2561.5	2569.1	2570.9
37.5°	2171.0	2167.3	2174.8	2167.3	2174.8	2167.3	2171.0	2169.2	2167.3	2171.0	2165.4
40°	1807.0	1810.8	1810.8	1825.9	1810.8	1810.8	1807.0	1803.2	1790.0	1782.5	1775.0
42.5°	1458.1	1469.4	1465.6	1476.9	1465.6	1469.4	1458.1	1450.5	1435.4	1422.2	1410.9
45°	1127.9	1135.5	1135.5	1139.3	1135.5	1135.5	1127.9	1120.4	1107.2	1095.9	1088.3
47.5°	865.8	865.8	865.8	867.7	865.8	865.8	865.8	852.6	848.8	841.3	831.8
50°	658.3	660.2	662.1	664.0	662.1	660.2	658.3	654.5	652.6	648.8	647.0
52.5°	505.5	507.4	503.6	507.4	503.6	507.4	505.5	507.4	501.7	501.7	499.8
55°	382.9	381.1	382.9	384.8	382.9	381.1	382.9	382.9	381.1	381.1	381.1
57.5°	281.1	277.2	277.2	277.2	277.2	277.2	281.1	279.2	284.9	281.1	282.9
60°	209.4	211.3	211.3	213.1	211.3	211.3	209.4	213.1	213.1	215.1	215.1
62.5°	154.7	160.3	156.5	160.3	156.5	160.3	154.7	156.5	156.5	158.5	160.3
65°	100.0	100.0	100.0	101.9	100.0	100.0	100.0	101.9	103.7	101.9	107.5
67.5°	67.9	69.8	73.6	71.7	73.6	69.8	67.9	69.8	69.8	75.5	73.6
70°	54.7	49.1	49.1	54.7	49.1	49.1	54.7	50.9	49.1	52.8	50.9
72.5°	32.1	28.3	32.1	32.1	32.1	28.3	32.1	28.3	30.2	30.2	33.9
75°	17.0	15.1	13.2	18.9	13.2	15.1	17.0	17.0	17.0	17.0	18.9
77.5°	11.3	9.4	13.2	13.2	13.2	9.4	11.3	9.4	11.3	9.4	11.3
80°	5.7	7.5	5.7	9.4	5.7	7.5	5.7	9.4	5.7	7.5	7.5
82.5°	1.9	3.8	3.8	3.8	3.8	3.8	1.9	1.9	3.8	3.8	1.9
85°	0.0	3.8	1.9	1.9	1.9	3.8	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.0	0.0	1.9	0.0	0.0	1.9	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: P248743

CATALOG NUMBER: LD8B90D010 ER8B909727 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0
2.5°	3902.6	3896.9	3898.9	3887.5	3887.5	3883.7	3885.7	3876.2	3872.5	3868.7	3874.3
5°	3959.2	3949.8	3942.2	3925.3	3915.8	3904.5	3898.9	3883.7	3870.5	3859.2	3857.3
7.5°	4004.5	3983.7	3970.5	3947.9	3930.9	3917.7	3898.9	3878.1	3861.1	3846.0	3834.7
10°	4023.3	4002.6	3981.9	3953.5	3934.7	3910.1	3891.3	3864.9	3842.3	3821.5	3808.3
12.5°	4025.2	3998.8	3979.9	3947.9	3923.3	3896.9	3876.2	3846.0	3819.6	3798.9	3778.1
15°	4008.3	3983.7	3961.1	3927.1	3902.6	3878.1	3853.6	3821.5	3797.0	3772.5	3757.4
17.5°	3970.5	3947.9	3921.5	3889.4	3866.8	3844.1	3817.7	3791.3	3763.0	3736.6	3717.7
20°	3921.5	3896.9	3874.3	3842.3	3823.4	3798.9	3774.3	3746.1	3723.4	3697.0	3676.3
22.5°	3847.9	3825.3	3804.5	3785.7	3755.5	3736.6	3719.7	3687.6	3664.9	3640.4	3617.8
25°	3742.3	3719.7	3702.7	3680.0	3666.8	3646.1	3629.1	3600.8	3580.1	3557.4	3538.5
27.5°	3568.7	3555.5	3546.1	3532.9	3521.6	3512.1	3502.8	3480.1	3465.0	3444.3	3425.4
30°	3308.4	3306.6	3300.9	3295.2	3302.8	3302.8	3302.8	3299.0	3285.8	3270.7	3257.5
32.5°	2974.6	2978.4	2985.9	2991.6	3006.6	3023.6	3038.7	3046.2	3046.2	3036.8	3031.2
35°	2576.6	2582.3	2593.6	2608.7	2627.5	2648.3	2682.2	2689.8	2695.4	2695.4	2687.9
37.5°	2163.5	2161.6	2173.0	2186.2	2197.5	2212.6	2237.1	2242.8	2252.1	2248.4	2240.8
40°	1761.7	1752.3	1748.5	1752.3	1765.5	1759.8	1765.5	1761.7	1761.7	1748.5	1748.5
42.5°	1390.1	1378.9	1371.3	1365.7	1365.7	1352.4	1343.0	1333.6	1327.9	1318.5	1316.6
45°	1071.4	1058.1	1048.7	1044.9	1039.4	1022.3	1011.0	999.7	986.5	982.8	984.6
47.5°	831.8	818.6	814.8	805.4	796.0	786.6	779.0	765.8	763.9	756.4	763.9
50°	641.3	637.6	631.9	628.1	622.4	614.9	607.4	599.8	596.0	596.0	597.9
52.5°	498.0	499.8	494.2	488.5	484.8	484.8	475.3	473.4	473.4	465.9	473.4
55°	381.1	379.1	381.1	377.2	377.2	371.6	371.6	365.9	365.9	360.2	364.0
57.5°	279.2	282.9	279.2	281.1	284.9	279.2	277.2	271.6	275.4	271.6	273.5
60°	216.9	216.9	216.9	215.1	215.1	213.1	213.1	211.3	211.3	207.5	211.3
62.5°	160.3	162.2	162.2	162.2	164.1	162.2	160.3	162.2	160.3	160.3	162.2
65°	105.7	107.5	107.5	105.7	109.4	105.7	107.5	109.4	111.3	109.4	111.3
67.5°	71.7	71.7	73.6	75.5	73.6	75.5	77.3	75.5	77.3	81.1	77.3
70°	52.8	54.7	54.7	52.8	50.9	52.8	50.9	56.6	56.6	56.6	60.3
72.5°	33.9	33.9	32.1	32.1	32.1	32.1	32.1	37.7	33.9	32.1	35.9
75°	18.9	20.7	20.7	15.1	17.0	20.7	15.1	17.0	22.7	18.9	22.7
77.5°	11.3	11.3	11.3	11.3	11.3	11.3	15.1	13.2	13.2	13.2	15.1
80°	9.4	7.5	7.5	5.7	7.5	7.5	7.5	11.3	9.4	9.4	11.3
82.5°	3.8	3.8	1.9	0.0	3.8	3.8	3.8	3.8	3.8	3.8	7.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	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: P248743

CATALOG NUMBER: LD8B90D010 ER8B909727 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0
2.5°	3859.2	3859.2	3857.3	3853.6	3846.0	3846.0	3844.1	3838.5	3834.7	3832.8	3832.8
5°	3840.3	3832.8	3825.3	3804.5	3804.5	3800.7	3789.5	3781.9	3778.1	3768.7	3764.9
7.5°	3823.4	3800.7	3787.5	3774.3	3757.4	3749.8	3736.6	3730.9	3717.7	3708.3	3702.7
10°	3781.9	3766.8	3749.8	3729.1	3715.9	3700.8	3685.7	3674.4	3657.4	3647.9	3640.4
12.5°	3753.6	3730.9	3715.9	3693.2	3670.6	3657.4	3636.7	3623.5	3606.5	3587.6	3576.3
15°	3727.2	3702.7	3681.9	3657.4	3632.9	3617.8	3593.3	3578.2	3553.7	3534.8	3521.6
17.5°	3687.6	3666.8	3644.2	3614.0	3591.4	3572.6	3546.1	3527.3	3504.6	3480.1	3466.9
20°	3646.1	3621.5	3599.0	3568.7	3546.1	3523.5	3497.1	3476.4	3449.9	3427.3	3412.2
22.5°	3591.4	3563.1	3544.2	3514.0	3487.6	3463.2	3438.6	3414.1	3389.6	3370.7	3353.7
25°	3512.1	3481.9	3461.2	3436.7	3412.2	3393.4	3363.2	3348.1	3323.6	3306.6	3289.6
27.5°	3399.0	3376.4	3357.5	3333.0	3312.2	3297.2	3274.5	3259.4	3238.6	3223.6	3210.4
30°	3233.0	3214.2	3197.2	3172.6	3157.6	3144.4	3123.6	3110.4	3095.3	3078.3	3074.6
32.5°	3010.4	2995.3	2978.4	2961.4	2950.0	2942.5	2925.5	2918.0	2902.9	2893.4	2884.1
35°	2674.7	2661.5	2652.1	2644.5	2640.7	2642.6	2638.9	2646.4	2650.1	2648.3	2650.1
37.5°	2235.2	2227.6	2231.4	2237.1	2256.0	2280.5	2303.1	2337.0	2359.7	2382.3	2403.1
40°	1744.8	1750.4	1765.5	1799.4	1848.5	1903.2	1954.2	2018.3	2082.4	2127.7	2169.2
42.5°	1316.6	1333.6	1371.3	1420.3	1493.9	1575.0	1654.3	1748.5	1825.9	1901.3	1954.2
45°	990.3	1012.9	1061.9	1129.9	1210.9	1305.3	1405.3	1510.9	1603.3	1680.6	1739.1
47.5°	771.5	792.2	841.3	913.0	1012.9	1111.0	1214.7	1324.1	1420.3	1495.8	1546.7
50°	609.2	635.6	679.0	754.5	854.5	958.2	1065.7	1173.2	1263.8	1327.9	1373.2
52.5°	479.1	503.6	545.1	624.4	726.2	830.0	929.9	1035.5	1114.7	1177.0	1207.2
55°	371.6	394.3	437.6	503.6	599.8	701.7	801.6	892.2	965.7	1011.0	1039.4
57.5°	282.9	299.9	330.1	396.1	482.9	577.2	662.1	752.6	809.2	841.3	860.1
60°	215.1	228.3	260.3	311.3	390.4	471.6	543.2	611.2	656.4	682.8	701.7
62.5°	162.2	177.3	199.9	243.3	303.6	369.7	430.0	481.0	518.7	535.7	548.9
65°	111.3	122.6	139.6	173.5	224.5	271.6	318.8	356.5	381.1	399.9	407.4
67.5°	83.0	90.5	100.0	126.4	162.2	199.9	232.0	258.4	284.9	292.4	305.6
70°	62.3	67.9	77.3	96.2	116.9	143.3	169.8	184.9	203.7	216.9	220.7
72.5°	39.6	41.5	50.9	62.3	79.2	96.2	113.2	126.4	137.7	145.3	149.0
75°	22.7	33.9	33.9	45.3	56.6	64.1	75.5	84.9	90.5	96.2	96.2
77.5°	15.1	20.7	22.7	28.3	33.9	43.4	52.8	58.5	64.1	66.0	66.0
80°	13.2	15.1	15.1	20.7	24.5	32.1	37.7	39.6	43.4	45.3	49.1
82.5°	5.7	7.5	9.4	15.1	17.0	17.0	22.7	24.5	28.3	30.2	30.2
85°	1.9	3.8	3.8	5.7	9.4	11.3	13.2	15.1	17.0	17.0	18.9
87.5°	1.9	1.9	0.0	1.9	3.8	3.8	7.5	7.5	7.5	11.3	11.3
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: P248743

CATALOG NUMBER: LD8B90D010 ER8B909727 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0
2.5°	3829.1	3830.9	3823.4	3821.5	3817.7	3819.6	3823.4
5°	3759.3	3761.1	3753.6	3746.1	3746.1	3744.1	3746.1
7.5°	3693.2	3695.1	3683.8	3680.0	3672.5	3674.4	3674.4
10°	3627.2	3627.2	3610.3	3608.3	3602.7	3600.8	3600.8
12.5°	3563.1	3557.4	3544.2	3536.7	3540.5	3529.2	3529.2
15°	3506.5	3497.1	3480.1	3474.4	3465.0	3461.2	3461.2
17.5°	3448.0	3440.5	3425.4	3414.1	3402.8	3400.9	3402.8
20°	3391.4	3383.9	3365.0	3357.5	3348.1	3348.1	3344.3
22.5°	3334.8	3327.3	3310.4	3304.7	3291.5	3291.5	3293.4
25°	3276.4	3270.7	3251.8	3248.1	3246.2	3238.6	3242.4
27.5°	3197.2	3193.4	3178.3	3172.6	3165.1	3163.2	3167.0
30°	3051.9	3046.2	3035.0	3029.3	3016.1	3018.0	3021.7
32.5°	2870.9	2863.3	2848.2	2842.5	2831.3	2827.5	2829.3
35°	2644.5	2638.9	2625.7	2625.7	2614.3	2610.5	2614.3
37.5°	2414.4	2420.0	2414.4	2420.0	2414.4	2412.5	2414.4
40°	2197.5	2218.2	2221.9	2242.8	2235.2	2246.5	2244.6
42.5°	1990.0	2023.9	2037.2	2054.1	2050.4	2057.9	2063.6
45°	1780.6	1808.9	1822.1	1833.4	1835.3	1839.1	1841.0
47.5°	1582.5	1605.2	1607.0	1620.2	1618.4	1618.4	1624.0
50°	1397.7	1412.8	1416.5	1426.0	1418.5	1414.7	1416.5
52.5°	1226.1	1241.1	1237.3	1241.1	1231.7	1227.9	1229.8
55°	1050.6	1058.1	1058.1	1058.1	1046.9	1046.9	1046.9
57.5°	871.4	873.4	869.6	871.4	869.6	858.2	856.4
60°	707.4	707.4	705.4	707.4	701.7	696.0	696.0
62.5°	552.6	556.4	564.0	556.4	552.6	556.4	550.8
65°	413.1	420.6	418.7	422.5	420.6	420.6	416.8
67.5°	311.3	313.1	315.0	316.9	316.9	316.9	316.9
70°	228.3	233.9	232.0	232.0	232.0	232.0	243.3
72.5°	152.8	160.3	158.5	162.2	162.2	166.0	162.2
75°	103.7	111.3	107.5	113.2	111.3	107.5	116.9
77.5°	69.8	73.6	75.5	77.3	75.5	73.6	75.5
80°	49.1	52.8	50.9	52.8	52.8	52.8	54.7
82.5°	30.2	35.9	33.9	35.9	33.9	35.9	35.9
85°	20.7	22.7	18.9	22.7	20.7	20.7	24.5
87.5°	13.2	11.3	11.3	13.2	11.3	13.2	11.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)