

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: P248751

Luminaire Tested: **LD8B80D010 ER8B80930 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248751
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: LD8B80D010 ER8B80930 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6851.5 lumens
Efficiency: N/A
Efficacy: 92.1 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

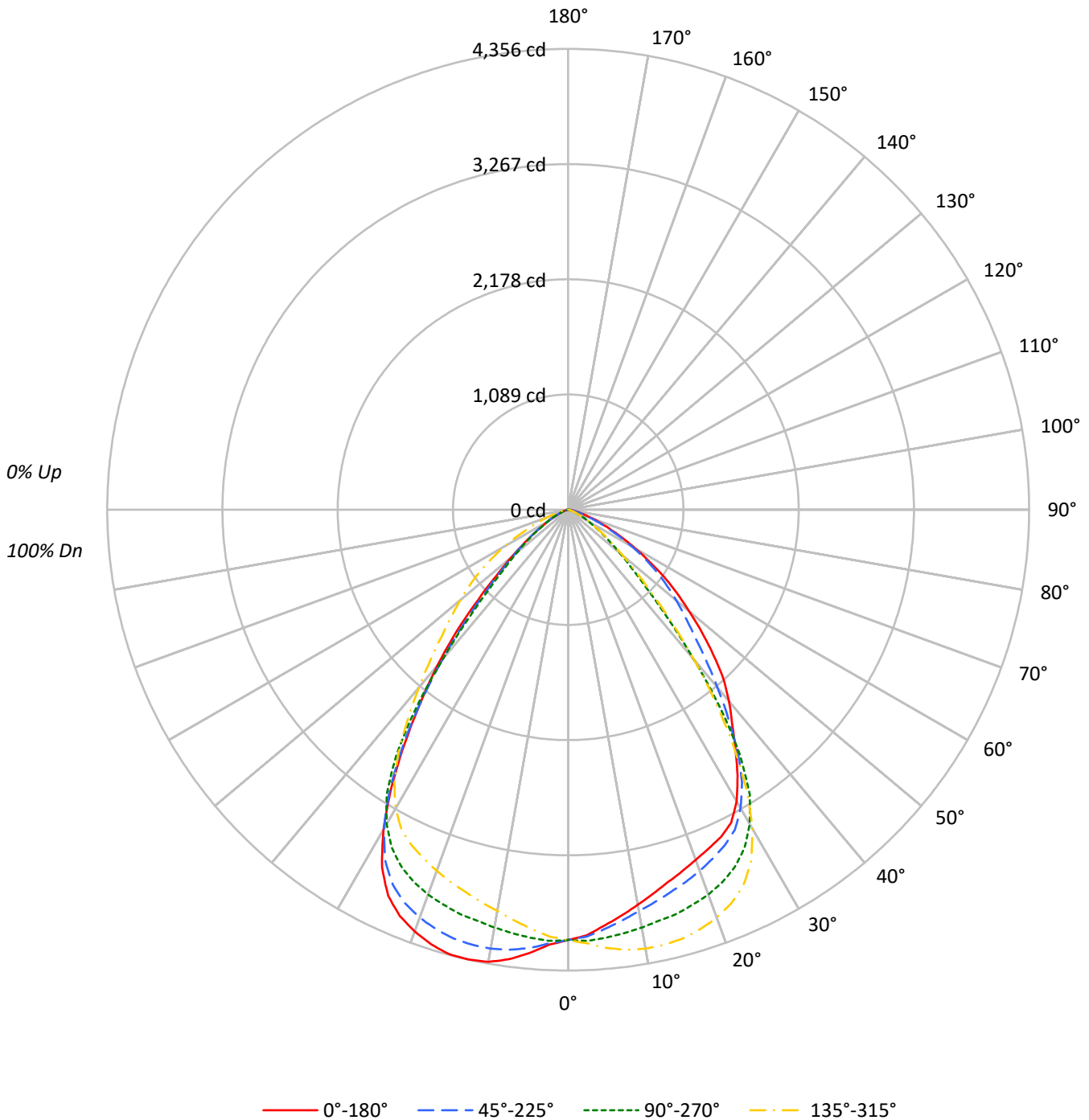
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248751

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBSW0WMH

Luminous Intensity Polar Plot





TEST NUMBER: P248751

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBSW0WMH

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°				



TEST NUMBER: P248751

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBSW0WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.2	5.7
10°-20°	1121.1	16.4
20°-30°	1697.6	24.8
30°-40°	1701.4	24.8
40°-50°	1068.4	15.6
50°-60°	569.3	8.3
60°-70°	234.1	3.4
70°-80°	61.8	0.9
80°-90°	10.5	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°	3205.9	46.8
0°-40°	4907.3	71.6
0°-60°	6545.1	95.5
0°-90°	6851.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6851.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4068	4068	4068	4068	4068	
5°	3944	4062	4207	4062	3944	372
15°	3644	3956	4350	3956	3644	1031
25°	3414	3726	4026	3726	3414	1566
35°	2753	2830	2685	2830	2753	1725
45°	1938	1037	1200	1037	1938	1491
55°	1102	383	405	383	1102	983
65°	439	117	107	117	439	455
75°	123	24	20	24	123	139
85°	26	0	2	0	26	28
90°	0	0	0	0	0	



TEST NUMBER: P248751

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBSW0WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5
2.5°	4025.8	4021.8	4019.9	4023.9	4025.8	4033.8	4031.8	4035.7	4035.7	4037.8	4041.8
5°	3944.5	3942.4	3944.5	3944.5	3952.3	3960.3	3958.4	3964.3	3968.2	3978.2	3982.1
7.5°	3869.0	3869.0	3866.9	3874.8	3878.9	3890.8	3888.7	3898.7	3904.7	3914.6	3928.5
10°	3791.4	3791.4	3793.5	3799.4	3801.4	3819.2	3819.2	3833.1	3841.1	3851.1	3869.0
12.5°	3716.0	3716.0	3728.0	3724.0	3731.9	3745.8	3751.8	3765.7	3777.5	3797.5	3815.3
15°	3644.5	3644.5	3648.5	3658.4	3664.3	3682.3	3692.1	3708.0	3721.9	3741.9	3767.7
17.5°	3582.9	3580.9	3582.9	3594.8	3606.8	3622.6	3630.6	3650.4	3664.3	3690.2	3714.1
20°	3521.4	3525.4	3525.4	3535.3	3543.3	3563.1	3570.9	3592.9	3608.7	3632.6	3660.4
22.5°	3467.7	3465.8	3465.8	3479.7	3485.6	3503.5	3511.4	3531.3	3549.2	3569.0	3594.8
25°	3414.1	3410.1	3418.2	3420.1	3424.0	3443.8	3449.9	3463.8	3481.6	3499.5	3525.4
27.5°	3334.6	3330.7	3332.7	3340.6	3346.6	3362.4	3366.5	3380.4	3394.3	3410.1	3432.1
30°	3181.7	3177.8	3175.8	3189.7	3195.6	3207.5	3213.5	3237.3	3241.3	3259.2	3275.1
32.5°	2979.2	2977.2	2981.2	2993.1	2999.0	3014.9	3022.9	3036.8	3046.7	3056.6	3072.4
35°	2752.7	2748.8	2752.7	2764.7	2764.7	2778.6	2784.6	2790.5	2788.5	2790.5	2786.6
37.5°	2542.2	2540.2	2542.2	2548.1	2542.2	2548.1	2542.2	2530.3	2508.5	2484.6	2460.7
40°	2363.5	2365.4	2353.5	2361.5	2339.6	2335.7	2313.9	2284.0	2240.3	2192.7	2125.2
42.5°	2172.8	2166.9	2158.9	2162.9	2145.0	2131.0	2095.4	2057.6	2002.0	1922.6	1841.1
45°	1938.4	1936.5	1932.5	1930.5	1918.6	1904.7	1874.9	1831.2	1769.6	1688.2	1590.8
47.5°	1710.1	1704.0	1704.0	1706.0	1692.1	1690.1	1666.3	1628.6	1575.0	1495.5	1394.3
50°	1491.5	1489.6	1493.6	1501.5	1491.5	1487.6	1471.8	1445.9	1398.2	1330.7	1235.3
52.5°	1294.9	1293.0	1297.0	1306.9	1302.8	1306.9	1290.9	1271.1	1239.4	1173.8	1090.4
55°	1102.3	1102.3	1102.3	1114.2	1114.2	1114.2	1106.2	1094.4	1064.5	1016.9	939.5
57.5°	901.7	903.6	915.6	917.5	915.6	919.6	917.5	905.7	885.8	852.1	792.4
60°	732.9	732.9	738.9	744.8	742.8	744.8	744.8	738.9	719.0	691.2	643.6
62.5°	579.9	585.9	581.9	585.9	593.8	585.9	581.9	578.0	564.1	546.2	506.5
65°	438.9	442.9	442.9	444.9	440.9	442.9	434.9	429.0	421.0	401.2	375.4
67.5°	333.7	333.7	333.7	333.7	331.7	329.7	327.8	321.7	307.8	300.0	272.1
70°	256.1	244.3	244.3	244.3	244.3	246.3	240.3	232.4	228.5	214.6	194.6
72.5°	170.7	174.8	170.7	170.7	166.8	168.8	160.9	156.8	152.9	145.1	133.1
75°	123.1	113.2	117.1	119.2	113.2	117.1	109.2	101.3	101.3	95.3	89.3
77.5°	79.5	77.5	79.5	81.4	79.5	77.5	73.5	69.5	69.5	67.5	61.5
80°	57.6	55.6	55.6	55.6	53.6	55.6	51.7	51.7	47.6	45.7	41.7
82.5°	37.8	37.8	35.8	37.8	35.8	37.8	31.8	31.8	31.8	29.7	25.8
85°	25.8	21.9	21.9	23.9	19.8	23.9	21.9	19.8	17.9	17.9	15.8
87.5°	11.9	13.9	11.9	13.9	11.9	11.9	13.9	11.9	11.9	8.0	8.0
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: P248751

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5
2.5°	4047.7	4049.6	4049.6	4057.7	4061.6	4063.5	4063.5	4079.4	4073.5	4077.5	4081.4
5°	3990.1	4002.0	4006.0	4006.0	4027.9	4035.7	4043.7	4061.6	4063.5	4075.5	4089.4
7.5°	3934.5	3948.4	3956.3	3974.2	3988.1	4002.0	4025.8	4037.8	4049.6	4065.6	4083.4
10°	3880.8	3896.8	3912.6	3926.5	3948.4	3966.2	3982.1	4009.9	4023.9	4045.7	4069.6
12.5°	3829.2	3851.1	3865.0	3888.7	3912.6	3928.5	3952.3	3978.2	4000.1	4021.8	4049.6
15°	3783.6	3809.4	3825.2	3851.1	3876.9	3898.7	3924.6	3956.3	3972.3	3998.0	4023.9
17.5°	3733.8	3761.7	3781.6	3805.3	3837.2	3860.9	3882.9	3914.6	3934.5	3962.3	3992.1
20°	3682.3	3710.1	3733.8	3757.7	3789.5	3813.3	3839.1	3870.9	3892.8	3920.6	3944.5
22.5°	3620.7	3646.5	3672.3	3700.1	3731.9	3751.8	3781.6	3809.4	3833.1	3859.0	3882.9
25°	3541.2	3573.1	3592.9	3618.7	3644.5	3666.3	3698.1	3725.9	3745.8	3769.7	3791.4
27.5°	3447.9	3471.7	3487.7	3509.4	3535.3	3555.1	3578.9	3606.8	3626.7	3648.5	3664.3
30°	3289.0	3310.9	3324.8	3340.6	3366.5	3384.4	3404.3	3430.0	3443.8	3459.9	3473.8
32.5°	3080.4	3098.3	3106.3	3118.2	3136.1	3153.9	3169.9	3191.7	3197.7	3207.5	3207.5
35°	2778.6	2782.5	2780.5	2784.6	2792.5	2802.4	2816.3	2830.2	2838.1	2838.1	2832.2
37.5°	2425.1	2401.3	2375.4	2355.6	2349.6	2345.6	2353.5	2359.5	2367.4	2371.4	2361.5
40°	2057.6	2004.0	1946.4	1894.7	1859.0	1843.1	1837.2	1841.1	1841.1	1855.0	1855.0
42.5°	1741.8	1658.4	1573.0	1495.5	1443.8	1404.2	1386.3	1386.3	1388.2	1398.2	1404.2
45°	1479.7	1374.3	1275.0	1189.7	1118.2	1066.5	1042.8	1036.7	1034.8	1038.7	1052.6
47.5°	1279.1	1169.9	1066.5	961.3	885.8	834.1	812.4	804.3	796.4	804.3	806.3
50°	1122.2	1009.0	899.7	794.5	715.0	669.2	641.4	629.6	627.6	627.6	631.6
52.5°	979.1	873.9	764.6	657.5	574.0	530.3	504.4	498.5	490.5	498.5	498.5
55°	844.1	738.9	631.6	530.3	460.7	415.1	391.2	383.3	379.3	385.3	385.3
57.5°	697.1	607.7	508.5	417.1	347.6	315.8	297.8	288.0	286.0	290.0	286.0
60°	572.0	496.6	411.1	327.8	274.1	240.3	226.4	222.4	218.5	222.4	222.4
62.5°	452.8	389.3	319.7	256.1	210.5	186.8	170.7	170.7	168.8	168.8	170.7
65°	335.6	286.0	236.3	182.7	147.0	129.0	117.1	117.1	115.2	117.1	115.2
67.5°	244.3	210.5	170.7	133.1	105.3	95.3	87.4	81.4	85.4	81.4	79.5
70°	178.8	150.9	123.1	101.3	81.4	71.5	65.6	63.6	59.6	59.6	59.6
72.5°	119.2	101.3	83.4	65.6	53.6	43.6	41.7	37.8	33.7	35.8	39.7
75°	79.5	67.5	59.6	47.6	35.8	35.8	23.9	23.9	19.8	23.9	17.9
77.5°	55.6	45.7	35.8	29.7	23.9	21.9	15.8	15.8	13.9	13.9	13.9
80°	39.7	33.7	25.8	21.9	15.8	15.8	13.9	11.9	9.9	9.9	11.9
82.5°	23.9	17.9	17.9	15.8	9.9	8.0	5.9	8.0	4.0	4.0	4.0
85°	13.9	11.9	9.9	5.9	4.0	4.0	2.0	0.0	2.0	2.0	0.0
87.5°	8.0	4.0	4.0	2.0	0.0	2.0	2.0	0.0	0.0	0.0	4.0
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: P248751

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5
2.5°	4091.4	4089.4	4093.3	4093.3	4105.3	4103.3	4109.2	4109.2	4105.3	4107.2	4115.2
5°	4105.3	4111.3	4123.2	4133.1	4151.0	4158.9	4168.9	4178.9	4180.8	4186.7	4192.8
7.5°	4105.3	4125.2	4139.1	4156.9	4180.8	4194.7	4216.5	4234.4	4242.3	4252.2	4264.2
10°	4097.3	4117.2	4143.0	4162.8	4192.8	4214.5	4236.4	4264.2	4276.1	4292.0	4307.9
12.5°	4081.4	4103.3	4131.1	4156.9	4190.6	4210.5	4238.3	4264.2	4282.1	4303.9	4321.8
15°	4057.7	4083.4	4109.2	4135.0	4170.8	4194.7	4220.5	4250.3	4268.2	4292.0	4307.9
17.5°	4019.9	4047.7	4071.6	4095.3	4129.1	4156.9	4180.8	4208.6	4226.5	4246.3	4268.2
20°	3974.2	4000.1	4025.8	4045.7	4079.4	4103.3	4129.1	4155.0	4168.9	4172.8	4206.6
22.5°	3916.7	3934.5	3954.3	3986.2	4006.0	4027.9	4051.7	4075.5	4089.4	4111.3	4123.2
25°	3821.3	3839.1	3860.9	3874.8	3898.7	3916.7	3940.4	3966.2	3974.2	3990.1	4002.0
27.5°	3688.2	3698.1	3708.0	3719.9	3733.8	3743.8	3757.7	3769.7	3777.5	3785.5	3793.5
30°	3477.7	3477.7	3477.7	3469.7	3475.7	3481.6	3483.6	3481.6	3481.6	3479.7	3479.7
32.5°	3199.6	3183.8	3165.8	3150.0	3144.1	3136.1	3132.1	3126.1	3116.3	3110.2	3112.2
35°	2824.2	2788.5	2766.6	2746.8	2731.0	2719.0	2713.0	2707.1	2705.1	2697.1	2689.2
37.5°	2355.6	2329.7	2313.9	2301.9	2288.0	2276.1	2278.1	2280.1	2285.9	2282.0	2284.0
40°	1859.0	1853.0	1859.0	1845.1	1841.1	1845.1	1855.0	1868.9	1876.9	1884.8	1898.7
42.5°	1414.1	1424.0	1438.0	1438.0	1443.8	1451.9	1463.7	1485.7	1497.5	1511.4	1527.4
45°	1064.5	1076.5	1094.4	1100.3	1104.3	1114.2	1128.2	1146.0	1153.8	1165.8	1179.7
47.5°	820.2	828.2	838.1	848.0	858.0	861.9	875.8	875.8	885.8	893.8	897.7
50°	639.5	647.5	655.3	661.4	665.3	671.4	675.3	681.2	683.1	687.2	689.2
52.5°	500.5	510.4	510.4	514.3	520.4	526.3	524.3	526.3	528.2	528.2	534.3
55°	391.2	391.2	397.2	397.2	401.2	399.2	401.2	401.2	401.2	401.2	403.2
57.5°	291.9	293.9	300.0	295.9	293.9	297.8	293.9	297.8	295.9	300.0	293.9
60°	224.4	224.4	226.4	226.4	228.5	228.5	228.5	226.4	226.4	224.4	224.4
62.5°	168.8	170.7	172.9	170.7	170.7	170.7	168.8	168.8	166.8	164.8	164.8
65°	113.2	111.3	115.2	111.3	113.2	113.2	111.3	113.2	107.3	109.2	107.3
67.5°	81.4	79.5	77.5	79.5	77.5	75.4	75.4	77.5	79.5	73.5	73.5
70°	53.6	55.6	53.6	55.6	57.6	57.6	55.6	53.6	55.6	51.7	53.6
72.5°	33.7	33.7	33.7	33.7	33.7	35.8	35.8	35.8	31.8	31.8	29.7
75°	15.8	21.9	17.9	15.8	21.9	21.9	19.8	19.8	17.9	17.9	17.9
77.5°	15.8	11.9	11.9	11.9	11.9	11.9	11.9	11.9	9.9	11.9	9.9
80°	8.0	8.0	8.0	5.9	8.0	8.0	9.9	8.0	8.0	5.9	9.9
82.5°	4.0	4.0	4.0	0.0	2.0	4.0	4.0	2.0	4.0	4.0	2.0
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: P248751

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5
2.5°	4113.3	4111.3	4113.3	4115.2	4113.3	4111.3	4113.3	4115.2	4107.2	4105.3	4109.2
5°	4200.6	4200.6	4204.5	4206.6	4204.5	4200.6	4200.6	4192.8	4186.7	4180.8	4178.9
7.5°	4276.1	4280.1	4284.0	4286.0	4284.0	4280.1	4276.1	4264.2	4252.2	4242.3	4234.4
10°	4321.8	4327.7	4335.7	4339.6	4335.7	4327.7	4321.8	4307.9	4292.0	4276.1	4264.2
12.5°	4341.6	4347.6	4357.6	4355.5	4357.6	4347.6	4341.6	4321.8	4303.9	4282.1	4264.2
15°	4327.7	4335.7	4345.6	4349.6	4345.6	4335.7	4327.7	4307.9	4292.0	4268.2	4250.3
17.5°	4284.0	4296.0	4301.9	4307.9	4301.9	4296.0	4284.0	4268.2	4246.3	4226.5	4208.6
20°	4224.4	4232.4	4240.4	4242.3	4240.4	4232.4	4224.4	4206.6	4172.8	4168.9	4155.0
22.5°	4139.1	4145.0	4162.8	4156.9	4162.8	4145.0	4139.1	4123.2	4111.3	4089.4	4075.5
25°	4015.9	4021.8	4023.9	4025.8	4023.9	4021.8	4015.9	4002.0	3990.1	3974.2	3966.2
27.5°	3803.4	3803.4	3807.4	3809.4	3807.4	3803.4	3803.4	3793.5	3785.5	3777.5	3769.7
30°	3481.6	3481.6	3481.6	3491.6	3481.6	3481.6	3481.6	3479.7	3479.7	3481.6	3481.6
32.5°	3110.2	3106.3	3102.4	3106.3	3102.4	3106.3	3110.2	3112.2	3110.2	3116.3	3126.1
35°	2689.2	2687.1	2693.2	2685.2	2693.2	2687.1	2689.2	2689.2	2697.1	2705.1	2707.1
37.5°	2285.9	2282.0	2290.0	2282.0	2290.0	2282.0	2285.9	2284.0	2282.0	2285.9	2280.1
40°	1902.8	1906.7	1906.7	1922.6	1906.7	1906.7	1902.8	1898.7	1884.8	1876.9	1868.9
42.5°	1535.2	1547.2	1543.2	1555.2	1543.2	1547.2	1535.2	1527.4	1511.4	1497.5	1485.7
45°	1187.7	1195.7	1195.7	1199.6	1195.7	1195.7	1187.7	1179.7	1165.8	1153.8	1146.0
47.5°	911.6	911.6	911.6	913.6	911.6	911.6	911.6	897.7	893.8	885.8	875.8
50°	693.1	695.1	697.1	699.2	697.1	695.1	693.1	689.2	687.2	683.1	681.2
52.5°	532.3	534.3	530.3	534.3	530.3	534.3	532.3	534.3	528.2	528.2	526.3
55°	403.2	401.2	403.2	405.1	403.2	401.2	403.2	403.2	401.2	401.2	401.2
57.5°	295.9	291.9	291.9	291.9	291.9	291.9	295.9	293.9	300.0	295.9	297.8
60°	220.5	222.4	222.4	224.4	222.4	222.4	220.5	224.4	224.4	226.4	226.4
62.5°	162.9	168.8	164.8	168.8	164.8	168.8	162.9	164.8	164.8	166.8	168.8
65°	105.3	105.3	105.3	107.3	105.3	105.3	105.3	107.3	109.2	107.3	113.2
67.5°	71.5	73.5	77.5	75.4	77.5	73.5	71.5	73.5	73.5	79.5	77.5
70°	57.6	51.7	51.7	57.6	51.7	51.7	57.6	53.6	51.7	55.6	53.6
72.5°	33.7	29.7	33.7	33.7	33.7	29.7	33.7	29.7	31.8	31.8	35.8
75°	17.9	15.8	13.9	19.8	13.9	15.8	17.9	17.9	17.9	17.9	19.8
77.5°	11.9	9.9	13.9	13.9	13.9	9.9	11.9	9.9	11.9	9.9	11.9
80°	5.9	8.0	5.9	9.9	5.9	8.0	5.9	9.9	5.9	8.0	8.0
82.5°	2.0	4.0	4.0	4.0	4.0	4.0	2.0	2.0	4.0	4.0	2.0
85°	0.0	4.0	2.0	2.0	2.0	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.0	0.0	2.0	0.0	0.0	2.0	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: P248751

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5
2.5°	4109.2	4103.3	4105.3	4093.3	4093.3	4089.4	4091.4	4081.4	4077.5	4073.5	4079.4
5°	4168.9	4158.9	4151.0	4133.1	4123.2	4111.3	4105.3	4089.4	4075.5	4063.5	4061.6
7.5°	4216.5	4194.7	4180.8	4156.9	4139.1	4125.2	4105.3	4083.4	4065.6	4049.6	4037.8
10°	4236.4	4214.5	4192.8	4162.8	4143.0	4117.2	4097.3	4069.6	4045.7	4023.9	4009.9
12.5°	4238.3	4210.5	4190.6	4156.9	4131.1	4103.3	4081.4	4049.6	4021.8	4000.1	3978.2
15°	4220.5	4194.7	4170.8	4135.0	4109.2	4083.4	4057.7	4023.9	3998.0	3972.3	3956.3
17.5°	4180.8	4156.9	4129.1	4095.3	4071.6	4047.7	4019.9	3992.1	3962.3	3934.5	3914.6
20°	4129.1	4103.3	4079.4	4045.7	4025.8	4000.1	3974.2	3944.5	3920.6	3892.8	3870.9
22.5°	4051.7	4027.9	4006.0	3986.2	3954.3	3934.5	3916.7	3882.9	3859.0	3833.1	3809.4
25°	3940.4	3916.7	3898.7	3874.8	3860.9	3839.1	3821.3	3791.4	3769.7	3745.8	3725.9
27.5°	3757.7	3743.8	3733.8	3719.9	3708.0	3698.1	3688.2	3664.3	3648.5	3626.7	3606.8
30°	3483.6	3481.6	3475.7	3469.7	3477.7	3477.7	3477.7	3473.8	3459.9	3443.8	3430.0
32.5°	3132.1	3136.1	3144.1	3150.0	3165.8	3183.8	3199.6	3207.5	3207.5	3197.7	3191.7
35°	2713.0	2719.0	2731.0	2746.8	2766.6	2788.5	2824.2	2832.2	2838.1	2838.1	2830.2
37.5°	2278.1	2276.1	2288.0	2301.9	2313.9	2329.7	2355.6	2361.5	2371.4	2367.4	2359.5
40°	1855.0	1845.1	1841.1	1845.1	1859.0	1853.0	1859.0	1855.0	1855.0	1841.1	1841.1
42.5°	1463.7	1451.9	1443.8	1438.0	1438.0	1424.0	1414.1	1404.2	1398.2	1388.2	1386.3
45°	1128.2	1114.2	1104.3	1100.3	1094.4	1076.5	1064.5	1052.6	1038.7	1034.8	1036.7
47.5°	875.8	861.9	858.0	848.0	838.1	828.2	820.2	806.3	804.3	796.4	804.3
50°	675.3	671.4	665.3	661.4	655.3	647.5	639.5	631.6	627.6	627.6	629.6
52.5°	524.3	526.3	520.4	514.3	510.4	510.4	500.5	498.5	498.5	490.5	498.5
55°	401.2	399.2	401.2	397.2	397.2	391.2	391.2	385.3	385.3	379.3	383.3
57.5°	293.9	297.8	293.9	295.9	300.0	293.9	291.9	286.0	290.0	286.0	288.0
60°	228.5	228.5	228.5	226.4	226.4	224.4	224.4	222.4	222.4	218.5	222.4
62.5°	168.8	170.7	170.7	170.7	172.9	170.7	168.8	170.7	168.8	168.8	170.7
65°	111.3	113.2	113.2	111.3	115.2	111.3	113.2	115.2	117.1	115.2	117.1
67.5°	75.4	75.4	77.5	79.5	77.5	79.5	81.4	79.5	81.4	85.4	81.4
70°	55.6	57.6	57.6	55.6	53.6	55.6	53.6	59.6	59.6	59.6	63.6
72.5°	35.8	35.8	33.7	33.7	33.7	33.7	33.7	39.7	35.8	33.7	37.8
75°	19.8	21.9	21.9	15.8	17.9	21.9	15.8	17.9	23.9	19.8	23.9
77.5°	11.9	11.9	11.9	11.9	11.9	11.9	15.8	13.9	13.9	13.9	15.8
80°	9.9	8.0	8.0	5.9	8.0	8.0	8.0	11.9	9.9	9.9	11.9
82.5°	4.0	4.0	2.0	0.0	4.0	4.0	4.0	4.0	4.0	4.0	8.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	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: P248751

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5
2.5°	4063.5	4063.5	4061.6	4057.7	4049.6	4049.6	4047.7	4041.8	4037.8	4035.7	4035.7
5°	4043.7	4035.7	4027.9	4006.0	4006.0	4002.0	3990.1	3982.1	3978.2	3968.2	3964.3
7.5°	4025.8	4002.0	3988.1	3974.2	3956.3	3948.4	3934.5	3928.5	3914.6	3904.7	3898.7
10°	3982.1	3966.2	3948.4	3926.5	3912.6	3896.8	3880.8	3869.0	3851.1	3841.1	3833.1
12.5°	3952.3	3928.5	3912.6	3888.7	3865.0	3851.1	3829.2	3815.3	3797.5	3777.5	3765.7
15°	3924.6	3898.7	3876.9	3851.1	3825.2	3809.4	3783.6	3767.7	3741.9	3721.9	3708.0
17.5°	3882.9	3860.9	3837.2	3805.3	3781.6	3761.7	3733.8	3714.1	3690.2	3664.3	3650.4
20°	3839.1	3813.3	3789.5	3757.7	3733.8	3710.1	3682.3	3660.4	3632.6	3608.7	3592.9
22.5°	3781.6	3751.8	3731.9	3700.1	3672.3	3646.5	3620.7	3594.8	3569.0	3549.2	3531.3
25°	3698.1	3666.3	3644.5	3618.7	3592.9	3573.1	3541.2	3525.4	3499.5	3481.6	3463.8
27.5°	3578.9	3555.1	3535.3	3509.4	3487.7	3471.7	3447.9	3432.1	3410.1	3394.3	3380.4
30°	3404.3	3384.4	3366.5	3340.6	3324.8	3310.9	3289.0	3275.1	3259.2	3241.3	3237.3
32.5°	3169.9	3153.9	3136.1	3118.2	3106.3	3098.3	3080.4	3072.4	3056.6	3046.7	3036.8
35°	2816.3	2802.4	2792.5	2784.6	2780.5	2782.5	2778.6	2786.6	2790.5	2788.5	2790.5
37.5°	2353.5	2345.6	2349.6	2355.6	2375.4	2401.3	2425.1	2460.7	2484.6	2508.5	2530.3
40°	1837.2	1843.1	1859.0	1894.7	1946.4	2004.0	2057.6	2125.2	2192.7	2240.3	2284.0
42.5°	1386.3	1404.2	1443.8	1495.5	1573.0	1658.4	1741.8	1841.1	1922.6	2002.0	2057.6
45°	1042.8	1066.5	1118.2	1189.7	1275.0	1374.3	1479.7	1590.8	1688.2	1769.6	1831.2
47.5°	812.4	834.1	885.8	961.3	1066.5	1169.9	1279.1	1394.3	1495.5	1575.0	1628.6
50°	641.4	669.2	715.0	794.5	899.7	1009.0	1122.2	1235.3	1330.7	1398.2	1445.9
52.5°	504.4	530.3	574.0	657.5	764.6	873.9	979.1	1090.4	1173.8	1239.4	1271.1
55°	391.2	415.1	460.7	530.3	631.6	738.9	844.1	939.5	1016.9	1064.5	1094.4
57.5°	297.8	315.8	347.6	417.1	508.5	607.7	697.1	792.4	852.1	885.8	905.7
60°	226.4	240.3	274.1	327.8	411.1	496.6	572.0	643.6	691.2	719.0	738.9
62.5°	170.7	186.8	210.5	256.1	319.7	389.3	452.8	506.5	546.2	564.1	578.0
65°	117.1	129.0	147.0	182.7	236.3	286.0	335.6	375.4	401.2	421.0	429.0
67.5°	87.4	95.3	105.3	133.1	170.7	210.5	244.3	272.1	300.0	307.8	321.7
70°	65.6	71.5	81.4	101.3	123.1	150.9	178.8	194.6	214.6	228.5	232.4
72.5°	41.7	43.6	53.6	65.6	83.4	101.3	119.2	133.1	145.1	152.9	156.8
75°	23.9	35.8	35.8	47.6	59.6	67.5	79.5	89.3	95.3	101.3	101.3
77.5°	15.8	21.9	23.9	29.7	35.8	45.7	55.6	61.5	67.5	69.5	69.5
80°	13.9	15.8	15.8	21.9	25.8	33.7	39.7	41.7	45.7	47.6	51.7
82.5°	5.9	8.0	9.9	15.8	17.9	17.9	23.9	25.8	29.7	31.8	31.8
85°	2.0	4.0	4.0	5.9	9.9	11.9	13.9	15.8	17.9	17.9	19.8
87.5°	2.0	2.0	0.0	2.0	4.0	4.0	8.0	8.0	8.0	11.9	11.9
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: P248751

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5	4067.5
2.5°	4031.8	4033.8	4025.8	4023.9	4019.9	4021.8	4025.8
5°	3958.4	3960.3	3952.3	3944.5	3944.5	3942.4	3944.5
7.5°	3888.7	3890.8	3878.9	3874.8	3866.9	3869.0	3869.0
10°	3819.2	3819.2	3801.4	3799.4	3793.5	3791.4	3791.4
12.5°	3751.8	3745.8	3731.9	3724.0	3728.0	3716.0	3716.0
15°	3692.1	3682.3	3664.3	3658.4	3648.5	3644.5	3644.5
17.5°	3630.6	3622.6	3606.8	3594.8	3582.9	3580.9	3582.9
20°	3570.9	3563.1	3543.3	3535.3	3525.4	3525.4	3521.4
22.5°	3511.4	3503.5	3485.6	3479.7	3465.8	3465.8	3467.7
25°	3449.9	3443.8	3424.0	3420.1	3418.2	3410.1	3414.1
27.5°	3366.5	3362.4	3346.6	3340.6	3332.7	3330.7	3334.6
30°	3213.5	3207.5	3195.6	3189.7	3175.8	3177.8	3181.7
32.5°	3022.9	3014.9	2999.0	2993.1	2981.2	2977.2	2979.2
35°	2784.6	2778.6	2764.7	2764.7	2752.7	2748.8	2752.7
37.5°	2542.2	2548.1	2542.2	2548.1	2542.2	2540.2	2542.2
40°	2313.9	2335.7	2339.6	2361.5	2353.5	2365.4	2363.5
42.5°	2095.4	2131.0	2145.0	2162.9	2158.9	2166.9	2172.8
45°	1874.9	1904.7	1918.6	1930.5	1932.5	1936.5	1938.4
47.5°	1666.3	1690.1	1692.1	1706.0	1704.0	1704.0	1710.1
50°	1471.8	1487.6	1491.5	1501.5	1493.6	1489.6	1491.5
52.5°	1290.9	1306.9	1302.8	1306.9	1297.0	1293.0	1294.9
55°	1106.2	1114.2	1114.2	1114.2	1102.3	1102.3	1102.3
57.5°	917.5	919.6	915.6	917.5	915.6	903.6	901.7
60°	744.8	744.8	742.8	744.8	738.9	732.9	732.9
62.5°	581.9	585.9	593.8	585.9	581.9	585.9	579.9
65°	434.9	442.9	440.9	444.9	442.9	442.9	438.9
67.5°	327.8	329.7	331.7	333.7	333.7	333.7	333.7
70°	240.3	246.3	244.3	244.3	244.3	244.3	256.1
72.5°	160.9	168.8	166.8	170.7	170.7	174.8	170.7
75°	109.2	117.1	113.2	119.2	117.1	113.2	123.1
77.5°	73.5	77.5	79.5	81.4	79.5	77.5	79.5
80°	51.7	55.6	53.6	55.6	55.6	55.6	57.6
82.5°	31.8	37.8	35.8	37.8	35.8	37.8	37.8
85°	21.9	23.9	19.8	23.9	21.9	21.9	25.8
87.5°	13.9	11.9	11.9	13.9	11.9	13.9	11.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)