

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: P249076

Luminaire Tested: **LD8B90D010 ER8B909730 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249076
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 ER8B909730 8LBSW0MMW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6872.0 lumens
Efficiency: N/A
Efficacy: 79.8 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

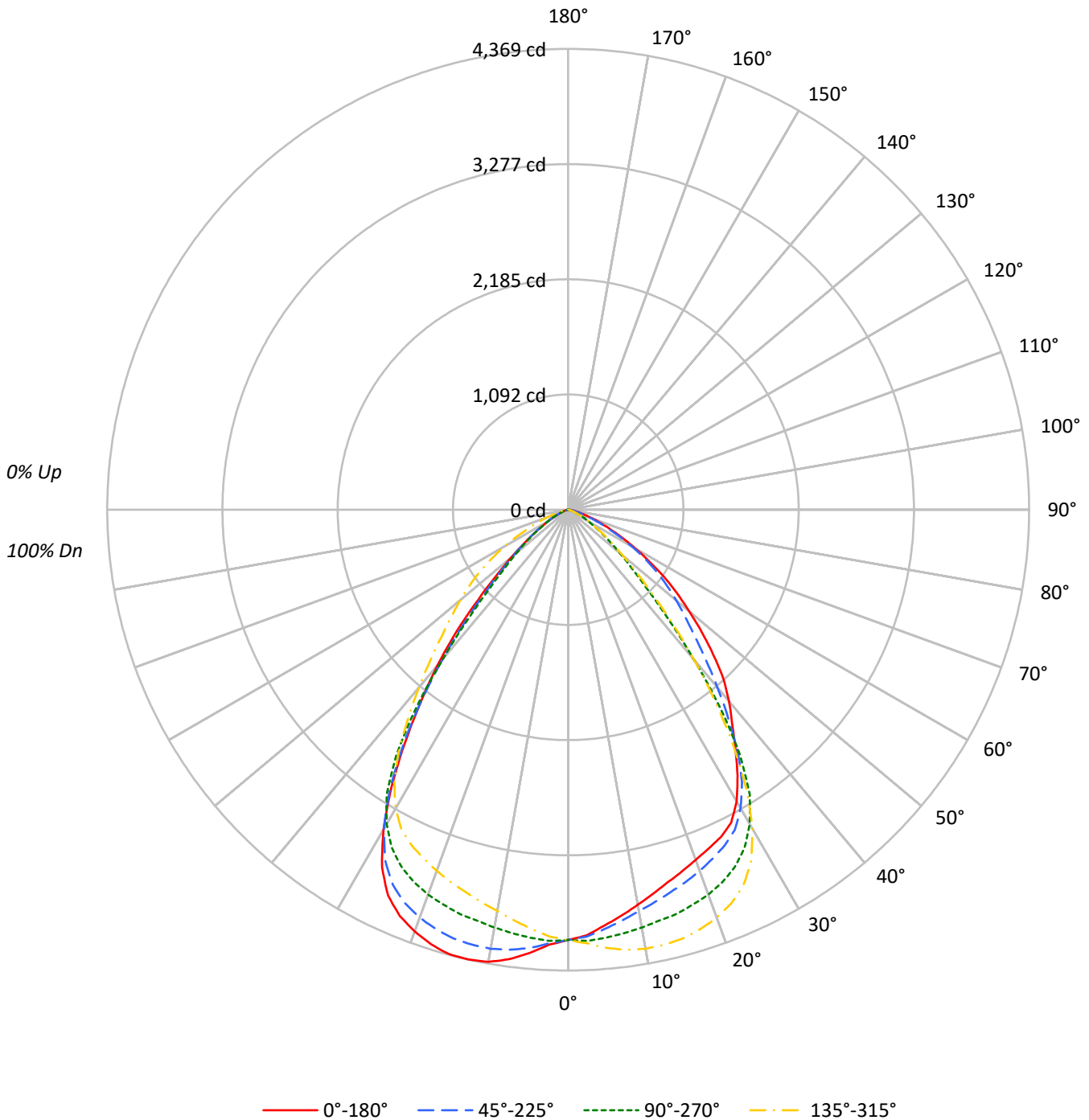
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	388.3	5.7
10°-20°	1124.5	16.4
20°-30°	1702.7	24.8
30°-40°	1706.5	24.8
40°-50°	1071.6	15.6
50°-60°	571.1	8.3
60°-70°	234.8	3.4
70°-80°	62.0	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°	3215.5	46.8
0°-40°	4922.0	71.6
0°-60°	6564.6	95.5
0°-90°	6872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6872.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4080	4080	4080	4080	4080	
5°	3956	4074	4219	4074	3956	373
15°	3655	3968	4363	3968	3655	1034
25°	3424	3737	4038	3737	3424	1571
35°	2761	2839	2693	2839	2761	1730
45°	1944	1040	1203	1040	1944	1495
55°	1106	384	406	384	1106	986
65°	440	118	108	118	440	457
75°	124	24	20	24	124	140
85°	26	0	2	0	26	28
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°	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7
2.5°	4037.9	4033.9	4031.9	4035.9	4037.9	4045.8	4043.9	4047.8	4047.8	4049.8	4053.8
5°	3956.2	3954.2	3956.2	3956.2	3964.2	3972.1	3970.1	3976.1	3980.1	3990.1	3994.0
7.5°	3880.5	3880.5	3878.5	3886.4	3890.4	3902.4	3900.4	3910.4	3916.4	3926.3	3940.2
10°	3802.8	3802.8	3804.8	3810.7	3812.8	3830.7	3830.7	3844.6	3852.6	3862.6	3880.5
12.5°	3727.1	3727.1	3739.1	3735.1	3743.0	3757.0	3762.9	3776.9	3788.9	3808.8	3826.7
15°	3655.4	3655.4	3659.4	3669.3	3675.3	3693.3	3703.2	3719.2	3733.1	3753.0	3778.9
17.5°	3593.6	3591.7	3593.6	3605.6	3617.6	3633.5	3641.4	3661.4	3675.3	3701.2	3725.1
20°	3531.9	3535.9	3535.9	3545.8	3553.8	3573.7	3581.7	3603.6	3619.5	3643.4	3671.4
22.5°	3478.1	3476.1	3476.1	3490.1	3496.1	3513.9	3521.9	3541.8	3559.8	3579.7	3605.6
25°	3424.3	3420.3	3428.3	3430.3	3434.2	3454.2	3460.1	3474.1	3492.0	3510.0	3535.9
27.5°	3344.6	3340.7	3342.6	3350.6	3356.6	3372.5	3376.5	3390.4	3404.4	3420.3	3442.3
30°	3191.2	3187.3	3185.3	3199.2	3205.2	3217.1	3223.1	3247.0	3251.0	3268.9	3284.8
32.5°	2988.0	2986.1	2990.1	3002.0	3007.9	3023.9	3031.9	3045.8	3055.7	3065.8	3081.7
35°	2761.0	2757.0	2761.0	2773.0	2773.0	2786.9	2792.9	2798.8	2796.8	2798.8	2794.8
37.5°	2549.8	2547.8	2549.8	2555.8	2549.8	2555.8	2549.8	2537.9	2516.0	2492.0	2468.1
40°	2370.5	2372.5	2360.6	2368.6	2346.6	2342.6	2320.8	2290.8	2247.0	2199.2	2131.5
42.5°	2179.3	2173.3	2165.4	2169.3	2151.4	2137.4	2101.6	2063.8	2007.9	1928.3	1846.6
45°	1944.2	1942.3	1938.3	1936.3	1924.3	1910.4	1880.4	1836.7	1774.9	1693.3	1595.6
47.5°	1715.1	1709.2	1709.2	1711.1	1697.2	1695.2	1671.3	1633.5	1579.7	1500.0	1398.4
50°	1496.0	1494.0	1498.0	1506.0	1496.0	1492.0	1476.1	1450.2	1402.4	1334.7	1239.0
52.5°	1298.8	1296.8	1300.8	1310.8	1306.7	1310.8	1294.8	1274.9	1243.0	1177.3	1093.6
55°	1105.6	1105.6	1105.6	1117.5	1117.5	1117.5	1109.5	1097.7	1067.7	1019.9	942.3
57.5°	904.4	906.4	918.3	920.3	918.3	922.3	920.3	908.3	888.5	854.6	794.8
60°	735.1	735.1	741.1	747.0	745.0	747.0	747.0	741.1	721.1	693.3	645.5
62.5°	581.7	587.7	583.6	587.7	595.6	587.7	583.6	579.7	565.8	547.8	508.0
65°	440.2	444.2	444.2	446.2	442.2	444.2	436.3	430.3	422.4	402.4	376.5
67.5°	334.7	334.7	334.7	334.7	332.6	330.7	328.7	322.7	308.8	300.8	272.9
70°	257.0	245.0	245.0	245.0	245.0	247.0	241.1	233.1	229.1	215.2	195.2
72.5°	171.3	175.3	171.3	171.3	167.3	169.3	161.4	157.3	153.4	145.5	133.5
75°	123.5	113.6	117.5	119.5	113.6	117.5	109.5	101.6	101.6	95.6	89.6
77.5°	79.7	77.7	79.7	81.7	79.7	77.7	73.7	69.7	69.7	67.7	61.7
80°	57.8	55.8	55.8	55.8	53.8	55.8	51.8	51.8	47.8	45.8	41.8
82.5°	37.9	37.9	35.8	37.9	35.8	37.9	31.9	31.9	31.9	29.8	25.9
85°	25.9	21.9	21.9	23.9	19.9	23.9	21.9	19.9	18.0	18.0	15.9
87.5°	12.0	13.9	12.0	13.9	12.0	12.0	13.9	12.0	12.0	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: P249076

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7
2.5°	4059.8	4061.7	4061.7	4069.8	4073.7	4075.7	4075.7	4091.7	4085.7	4089.7	4093.6
5°	4002.0	4013.9	4017.9	4017.9	4039.8	4047.8	4055.7	4073.7	4075.7	4087.6	4101.6
7.5°	3946.2	3960.1	3968.2	3986.1	4000.0	4013.9	4037.9	4049.8	4061.7	4077.7	4095.6
10°	3892.4	3908.4	3924.3	3938.2	3960.1	3978.1	3994.0	4021.9	4035.9	4057.8	4081.7
12.5°	3840.7	3862.6	3876.5	3900.4	3924.3	3940.2	3964.2	3990.1	4012.0	4033.9	4061.7
15°	3794.8	3820.8	3836.7	3862.6	3888.5	3910.4	3936.3	3968.2	3984.1	4010.0	4035.9
17.5°	3745.0	3772.9	3792.9	3816.7	3848.6	3872.5	3894.5	3926.3	3946.2	3974.1	4004.0
20°	3693.3	3721.1	3745.0	3768.9	3800.8	3824.7	3850.6	3882.5	3904.4	3932.3	3956.2
22.5°	3631.5	3657.4	3683.2	3711.1	3743.0	3762.9	3792.9	3820.8	3844.6	3870.5	3894.5
25°	3551.8	3583.7	3603.6	3629.5	3655.4	3677.3	3709.2	3737.0	3757.0	3780.9	3802.8
27.5°	3458.2	3482.1	3498.0	3519.9	3545.8	3565.8	3589.6	3617.6	3637.5	3659.4	3675.3
30°	3298.8	3320.8	3334.7	3350.6	3376.5	3394.5	3414.4	3440.2	3454.2	3470.1	3484.1
32.5°	3089.6	3107.6	3115.5	3127.5	3145.5	3163.3	3179.3	3201.2	3207.2	3217.1	3217.1
35°	2786.9	2790.8	2788.9	2792.9	2800.8	2810.8	2824.7	2838.6	2846.6	2846.6	2840.7
37.5°	2432.3	2408.4	2382.5	2362.6	2356.6	2352.6	2360.6	2366.5	2374.5	2378.5	2368.6
40°	2063.8	2010.0	1952.2	1900.4	1864.5	1848.6	1842.6	1846.6	1846.6	1860.5	1860.5
42.5°	1747.0	1663.3	1577.7	1500.0	1448.2	1408.4	1390.5	1390.5	1392.4	1402.4	1408.4
45°	1484.1	1378.5	1278.9	1193.3	1121.5	1069.7	1045.8	1039.8	1037.9	1041.8	1055.8
47.5°	1282.9	1173.3	1069.7	964.2	888.5	836.7	814.8	806.7	798.8	806.7	808.8
50°	1125.5	1012.0	902.4	796.8	717.1	671.3	643.4	631.4	629.5	629.5	633.5
52.5°	982.0	876.5	767.0	659.4	575.7	531.9	506.0	500.0	492.0	500.0	500.0
55°	846.6	741.1	633.5	531.9	462.1	416.4	392.4	384.5	380.5	386.4	386.4
57.5°	699.2	609.5	510.0	418.3	348.6	316.7	298.8	288.9	286.8	290.8	286.8
60°	573.7	498.0	412.3	328.7	274.9	241.1	227.1	223.1	219.1	223.1	223.1
62.5°	454.2	390.5	320.7	257.0	211.1	187.3	171.3	171.3	169.3	169.3	171.3
65°	336.7	286.8	237.0	183.3	147.4	129.5	117.5	117.5	115.5	117.5	115.5
67.5°	245.0	211.1	171.3	133.5	105.6	95.6	87.7	81.7	85.7	81.7	79.7
70°	179.3	151.4	123.5	101.6	81.7	71.7	65.8	63.7	59.8	59.8	59.8
72.5°	119.5	101.6	83.6	65.8	53.8	43.8	41.8	37.9	33.9	35.8	39.8
75°	79.7	67.7	59.8	47.8	35.8	35.8	23.9	23.9	19.9	23.9	18.0
77.5°	55.8	45.8	35.8	29.8	23.9	21.9	15.9	15.9	13.9	13.9	13.9
80°	39.8	33.9	25.9	21.9	15.9	15.9	13.9	12.0	9.9	9.9	12.0
82.5°	23.9	18.0	18.0	15.9	9.9	8.0	6.0	8.0	4.0	4.0	4.0
85°	13.9	12.0	9.9	6.0	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



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CATALOG NUMBER: LD8B90D010 ER8B909730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7
2.5°	4103.6	4101.6	4105.6	4105.6	4117.6	4115.5	4121.5	4121.5	4117.6	4119.5	4127.5
5°	4117.6	4123.6	4135.4	4145.4	4163.3	4171.4	4181.3	4191.3	4193.3	4199.2	4205.2
7.5°	4117.6	4137.5	4151.4	4169.3	4193.3	4207.2	4229.1	4247.0	4255.0	4264.9	4276.9
10°	4109.5	4129.5	4155.4	4175.3	4205.2	4227.1	4249.0	4276.9	4288.9	4304.8	4320.8
12.5°	4093.6	4115.5	4143.4	4169.3	4203.2	4223.1	4251.0	4276.9	4294.8	4316.7	4334.7
15°	4069.8	4095.6	4121.5	4147.4	4183.2	4207.2	4233.1	4262.9	4280.9	4304.8	4320.8
17.5°	4031.9	4059.8	4083.7	4107.6	4141.4	4169.3	4193.3	4221.1	4239.1	4259.0	4280.9
20°	3986.1	4012.0	4037.9	4057.8	4091.7	4115.5	4141.4	4167.3	4181.3	4185.3	4219.2
22.5°	3928.3	3946.2	3966.1	3998.0	4017.9	4039.8	4063.8	4087.6	4101.6	4123.6	4135.4
25°	3832.6	3850.6	3872.5	3886.4	3910.4	3928.3	3952.2	3978.1	3986.1	4002.0	4013.9
27.5°	3699.2	3709.2	3719.2	3731.1	3745.0	3755.0	3768.9	3780.9	3788.9	3796.8	3804.8
30°	3488.0	3488.0	3488.0	3480.1	3486.1	3492.0	3494.0	3492.0	3492.0	3490.1	3490.1
32.5°	3209.2	3193.3	3175.3	3159.4	3153.4	3145.5	3141.4	3135.4	3125.5	3119.5	3121.5
35°	2832.6	2796.8	2774.9	2755.0	2739.1	2727.1	2721.1	2715.1	2713.2	2705.2	2697.2
37.5°	2362.6	2336.7	2320.8	2308.8	2294.8	2282.9	2284.8	2286.9	2292.8	2288.9	2290.8
40°	1864.5	1858.6	1864.5	1850.6	1846.6	1850.6	1860.5	1874.5	1882.5	1890.5	1904.4
42.5°	1418.3	1428.3	1442.3	1442.3	1448.2	1456.2	1468.1	1490.1	1502.0	1515.9	1531.9
45°	1067.7	1079.7	1097.7	1103.6	1107.6	1117.5	1131.5	1149.4	1157.3	1169.3	1183.3
47.5°	822.7	830.7	840.6	850.6	860.5	864.5	878.5	878.5	888.5	896.4	900.4
50°	641.4	649.4	657.3	663.3	667.3	673.3	677.3	683.3	685.2	689.2	691.2
52.5°	502.0	512.0	512.0	515.9	521.9	527.9	525.9	527.9	529.8	529.8	535.8
55°	392.4	392.4	398.4	398.4	402.4	400.4	402.4	402.4	402.4	402.4	404.4
57.5°	292.8	294.9	300.8	296.8	294.9	298.8	294.9	298.8	296.8	300.8	294.9
60°	225.1	225.1	227.1	227.1	229.1	229.1	229.1	227.1	227.1	225.1	225.1
62.5°	169.3	171.3	173.3	171.3	171.3	171.3	169.3	169.3	167.3	165.3	165.3
65°	113.6	111.6	115.5	111.6	113.6	113.6	111.6	113.6	107.6	109.5	107.6
67.5°	81.7	79.7	77.7	79.7	77.7	75.7	75.7	77.7	79.7	73.7	73.7
70°	53.8	55.8	53.8	55.8	57.8	57.8	55.8	53.8	55.8	51.8	53.8
72.5°	33.9	33.9	33.9	33.9	33.9	35.8	35.8	35.8	31.9	31.9	29.8
75°	15.9	21.9	18.0	15.9	21.9	21.9	19.9	19.9	18.0	18.0	18.0
77.5°	15.9	12.0	12.0	12.0	12.0	12.0	12.0	12.0	9.9	12.0	9.9
80°	8.0	8.0	8.0	6.0	8.0	8.0	9.9	8.0	8.0	6.0	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: P249076

CATALOG NUMBER: LD8B90D010 ER8B909730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7
2.5°	4125.5	4123.6	4125.5	4127.5	4125.5	4123.6	4125.5	4127.5	4119.5	4117.6	4121.5
5°	4213.2	4213.2	4217.1	4219.2	4217.1	4213.2	4213.2	4205.2	4199.2	4193.3	4191.3
7.5°	4288.9	4292.9	4296.8	4298.8	4296.8	4292.9	4288.9	4276.9	4264.9	4255.0	4247.0
10°	4334.7	4340.7	4348.6	4352.6	4348.6	4340.7	4334.7	4320.8	4304.8	4288.9	4276.9
12.5°	4354.6	4360.6	4370.5	4368.6	4370.5	4360.6	4354.6	4334.7	4316.7	4294.8	4276.9
15°	4340.7	4348.6	4358.6	4362.6	4358.6	4348.6	4340.7	4320.8	4304.8	4280.9	4262.9
17.5°	4296.8	4308.8	4314.8	4320.8	4314.8	4308.8	4296.8	4280.9	4259.0	4239.1	4221.1
20°	4237.0	4245.1	4253.0	4255.0	4253.0	4245.1	4237.0	4219.2	4185.3	4181.3	4167.3
22.5°	4151.4	4157.4	4175.3	4169.3	4175.3	4157.4	4151.4	4135.4	4123.6	4101.6	4087.6
25°	4027.9	4033.9	4035.9	4037.9	4035.9	4033.9	4027.9	4013.9	4002.0	3986.1	3978.1
27.5°	3814.8	3814.8	3818.7	3820.8	3818.7	3814.8	3814.8	3804.8	3796.8	3788.9	3780.9
30°	3492.0	3492.0	3492.0	3502.0	3492.0	3492.0	3492.0	3490.1	3490.1	3492.0	3492.0
32.5°	3119.5	3115.5	3111.6	3115.5	3111.6	3115.5	3119.5	3121.5	3119.5	3125.5	3135.4
35°	2697.2	2695.2	2701.2	2693.3	2701.2	2695.2	2697.2	2697.2	2705.2	2713.2	2715.1
37.5°	2292.8	2288.9	2296.8	2288.9	2296.8	2288.9	2292.8	2290.8	2288.9	2292.8	2286.9
40°	1908.4	1912.3	1912.3	1928.3	1912.3	1912.3	1908.4	1904.4	1890.5	1882.5	1874.5
42.5°	1539.8	1551.8	1547.8	1559.8	1547.8	1551.8	1539.8	1531.9	1515.9	1502.0	1490.1
45°	1191.2	1199.2	1199.2	1203.2	1199.2	1199.2	1191.2	1183.3	1169.3	1157.3	1149.4
47.5°	914.3	914.3	914.3	916.4	914.3	914.3	914.3	900.4	896.4	888.5	878.5
50°	695.2	697.2	699.2	701.2	699.2	697.2	695.2	691.2	689.2	685.2	683.3
52.5°	533.9	535.8	531.9	535.8	531.9	535.8	533.9	535.8	529.8	529.8	527.9
55°	404.4	402.4	404.4	406.4	404.4	402.4	404.4	404.4	402.4	402.4	402.4
57.5°	296.8	292.8	292.8	292.8	292.8	292.8	296.8	294.9	300.8	296.8	298.8
60°	221.1	223.1	223.1	225.1	223.1	223.1	221.1	225.1	225.1	227.1	227.1
62.5°	163.3	169.3	165.3	169.3	165.3	169.3	163.3	165.3	165.3	167.3	169.3
65°	105.6	105.6	105.6	107.6	105.6	105.6	105.6	107.6	109.5	107.6	113.6
67.5°	71.7	73.7	77.7	75.7	77.7	73.7	71.7	73.7	73.7	79.7	77.7
70°	57.8	51.8	51.8	57.8	51.8	51.8	57.8	53.8	51.8	55.8	53.8
72.5°	33.9	29.8	33.9	33.9	33.9	29.8	33.9	29.8	31.9	31.9	35.8
75°	18.0	15.9	13.9	19.9	13.9	15.9	18.0	18.0	18.0	18.0	19.9
77.5°	12.0	9.9	13.9	13.9	13.9	9.9	12.0	9.9	12.0	9.9	12.0
80°	6.0	8.0	6.0	9.9	6.0	8.0	6.0	9.9	6.0	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: P249076

CATALOG NUMBER: LD8B90D010 ER8B909730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7
2.5°	4121.5	4115.5	4117.6	4105.6	4105.6	4101.6	4103.6	4093.6	4089.7	4085.7	4091.7
5°	4181.3	4171.4	4163.3	4145.4	4135.4	4123.6	4117.6	4101.6	4087.6	4075.7	4073.7
7.5°	4229.1	4207.2	4193.3	4169.3	4151.4	4137.5	4117.6	4095.6	4077.7	4061.7	4049.8
10°	4249.0	4227.1	4205.2	4175.3	4155.4	4129.5	4109.5	4081.7	4057.8	4035.9	4021.9
12.5°	4251.0	4223.1	4203.2	4169.3	4143.4	4115.5	4093.6	4061.7	4033.9	4012.0	3990.1
15°	4233.1	4207.2	4183.2	4147.4	4121.5	4095.6	4069.8	4035.9	4010.0	3984.1	3968.2
17.5°	4193.3	4169.3	4141.4	4107.6	4083.7	4059.8	4031.9	4004.0	3974.1	3946.2	3926.3
20°	4141.4	4115.5	4091.7	4057.8	4037.9	4012.0	3986.1	3956.2	3932.3	3904.4	3882.5
22.5°	4063.8	4039.8	4017.9	3998.0	3966.1	3946.2	3928.3	3894.5	3870.5	3844.6	3820.8
25°	3952.2	3928.3	3910.4	3886.4	3872.5	3850.6	3832.6	3802.8	3780.9	3757.0	3737.0
27.5°	3768.9	3755.0	3745.0	3731.1	3719.2	3709.2	3699.2	3675.3	3659.4	3637.5	3617.6
30°	3494.0	3492.0	3486.1	3480.1	3488.0	3488.0	3488.0	3484.1	3470.1	3454.2	3440.2
32.5°	3141.4	3145.5	3153.4	3159.4	3175.3	3193.3	3209.2	3217.1	3217.1	3207.2	3201.2
35°	2721.1	2727.1	2739.1	2755.0	2774.9	2796.8	2832.6	2840.7	2846.6	2846.6	2838.6
37.5°	2284.8	2282.9	2294.8	2308.8	2320.8	2336.7	2362.6	2368.6	2378.5	2374.5	2366.5
40°	1860.5	1850.6	1846.6	1850.6	1864.5	1858.6	1864.5	1860.5	1860.5	1846.6	1846.6
42.5°	1468.1	1456.2	1448.2	1442.3	1442.3	1428.3	1418.3	1408.4	1402.4	1392.4	1390.5
45°	1131.5	1117.5	1107.6	1103.6	1097.7	1079.7	1067.7	1055.8	1041.8	1037.9	1039.8
47.5°	878.5	864.5	860.5	850.6	840.6	830.7	822.7	808.8	806.7	798.8	806.7
50°	677.3	673.3	667.3	663.3	657.3	649.4	641.4	633.5	629.5	629.5	631.4
52.5°	525.9	527.9	521.9	515.9	512.0	512.0	502.0	500.0	500.0	492.0	500.0
55°	402.4	400.4	402.4	398.4	398.4	392.4	392.4	386.4	386.4	380.5	384.5
57.5°	294.9	298.8	294.9	296.8	300.8	294.9	292.8	286.8	290.8	286.8	288.9
60°	229.1	229.1	229.1	227.1	227.1	225.1	225.1	223.1	223.1	219.1	223.1
62.5°	169.3	171.3	171.3	171.3	173.3	171.3	169.3	171.3	169.3	169.3	171.3
65°	111.6	113.6	113.6	111.6	115.5	111.6	113.6	115.5	117.5	115.5	117.5
67.5°	75.7	75.7	77.7	79.7	77.7	79.7	81.7	79.7	81.7	85.7	81.7
70°	55.8	57.8	57.8	55.8	53.8	55.8	53.8	59.8	59.8	59.8	63.7
72.5°	35.8	35.8	33.9	33.9	33.9	33.9	33.9	39.8	35.8	33.9	37.9
75°	19.9	21.9	21.9	15.9	18.0	21.9	15.9	18.0	23.9	19.9	23.9
77.5°	12.0	12.0	12.0	12.0	12.0	12.0	15.9	13.9	13.9	13.9	15.9
80°	9.9	8.0	8.0	6.0	8.0	8.0	8.0	12.0	9.9	9.9	12.0
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: P249076

CATALOG NUMBER: LD8B90D010 ER8B909730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7
2.5°	4075.7	4075.7	4073.7	4069.8	4061.7	4061.7	4059.8	4053.8	4049.8	4047.8	4047.8
5°	4055.7	4047.8	4039.8	4017.9	4017.9	4013.9	4002.0	3994.0	3990.1	3980.1	3976.1
7.5°	4037.9	4013.9	4000.0	3986.1	3968.2	3960.1	3946.2	3940.2	3926.3	3916.4	3910.4
10°	3994.0	3978.1	3960.1	3938.2	3924.3	3908.4	3892.4	3880.5	3862.6	3852.6	3844.6
12.5°	3964.2	3940.2	3924.3	3900.4	3876.5	3862.6	3840.7	3826.7	3808.8	3788.9	3776.9
15°	3936.3	3910.4	3888.5	3862.6	3836.7	3820.8	3794.8	3778.9	3753.0	3733.1	3719.2
17.5°	3894.5	3872.5	3848.6	3816.7	3792.9	3772.9	3745.0	3725.1	3701.2	3675.3	3661.4
20°	3850.6	3824.7	3800.8	3768.9	3745.0	3721.1	3693.3	3671.4	3643.4	3619.5	3603.6
22.5°	3792.9	3762.9	3743.0	3711.1	3683.2	3657.4	3631.5	3605.6	3579.7	3559.8	3541.8
25°	3709.2	3677.3	3655.4	3629.5	3603.6	3583.7	3551.8	3535.9	3510.0	3492.0	3474.1
27.5°	3589.6	3565.8	3545.8	3519.9	3498.0	3482.1	3458.2	3442.3	3420.3	3404.4	3390.4
30°	3414.4	3394.5	3376.5	3350.6	3334.7	3320.8	3298.8	3284.8	3268.9	3251.0	3247.0
32.5°	3179.3	3163.3	3145.5	3127.5	3115.5	3107.6	3089.6	3081.7	3065.8	3055.7	3045.8
35°	2824.7	2810.8	2800.8	2792.9	2788.9	2790.8	2786.9	2794.8	2798.8	2796.8	2798.8
37.5°	2360.6	2352.6	2356.6	2362.6	2382.5	2408.4	2432.3	2468.1	2492.0	2516.0	2537.9
40°	1842.6	1848.6	1864.5	1900.4	1952.2	2010.0	2063.8	2131.5	2199.2	2247.0	2290.8
42.5°	1390.5	1408.4	1448.2	1500.0	1577.7	1663.3	1747.0	1846.6	1928.3	2007.9	2063.8
45°	1045.8	1069.7	1121.5	1193.3	1278.9	1378.5	1484.1	1595.6	1693.3	1774.9	1836.7
47.5°	814.8	836.7	888.5	964.2	1069.7	1173.3	1282.9	1398.4	1500.0	1579.7	1633.5
50°	643.4	671.3	717.1	796.8	902.4	1012.0	1125.5	1239.0	1334.7	1402.4	1450.2
52.5°	506.0	531.9	575.7	659.4	767.0	876.5	982.0	1093.6	1177.3	1243.0	1274.9
55°	392.4	416.4	462.1	531.9	633.5	741.1	846.6	942.3	1019.9	1067.7	1097.7
57.5°	298.8	316.7	348.6	418.3	510.0	609.5	699.2	794.8	854.6	888.5	908.3
60°	227.1	241.1	274.9	328.7	412.3	498.0	573.7	645.5	693.3	721.1	741.1
62.5°	171.3	187.3	211.1	257.0	320.7	390.5	454.2	508.0	547.8	565.8	579.7
65°	117.5	129.5	147.4	183.3	237.0	286.8	336.7	376.5	402.4	422.4	430.3
67.5°	87.7	95.6	105.6	133.5	171.3	211.1	245.0	272.9	300.8	308.8	322.7
70°	65.8	71.7	81.7	101.6	123.5	151.4	179.3	195.2	215.2	229.1	233.1
72.5°	41.8	43.8	53.8	65.8	83.6	101.6	119.5	133.5	145.5	153.4	157.3
75°	23.9	35.8	35.8	47.8	59.8	67.7	79.7	89.6	95.6	101.6	101.6
77.5°	15.9	21.9	23.9	29.8	35.8	45.8	55.8	61.7	67.7	69.7	69.7
80°	13.9	15.9	15.9	21.9	25.9	33.9	39.8	41.8	45.8	47.8	51.8
82.5°	6.0	8.0	9.9	15.9	18.0	18.0	23.9	25.9	29.8	31.9	31.9
85°	2.0	4.0	4.0	6.0	9.9	12.0	13.9	15.9	18.0	18.0	19.9
87.5°	2.0	2.0	0.0	2.0	4.0	4.0	8.0	8.0	8.0	12.0	12.0
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: P249076

CATALOG NUMBER: LD8B90D010 ER8B909730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7	4079.7
2.5°	4043.9	4045.8	4037.9	4035.9	4031.9	4033.9	4037.9
5°	3970.1	3972.1	3964.2	3956.2	3956.2	3954.2	3956.2
7.5°	3900.4	3902.4	3890.4	3886.4	3878.5	3880.5	3880.5
10°	3830.7	3830.7	3812.8	3810.7	3804.8	3802.8	3802.8
12.5°	3762.9	3757.0	3743.0	3735.1	3739.1	3727.1	3727.1
15°	3703.2	3693.3	3675.3	3669.3	3659.4	3655.4	3655.4
17.5°	3641.4	3633.5	3617.6	3605.6	3593.6	3591.7	3593.6
20°	3581.7	3573.7	3553.8	3545.8	3535.9	3535.9	3531.9
22.5°	3521.9	3513.9	3496.1	3490.1	3476.1	3476.1	3478.1
25°	3460.1	3454.2	3434.2	3430.3	3428.3	3420.3	3424.3
27.5°	3376.5	3372.5	3356.6	3350.6	3342.6	3340.7	3344.6
30°	3223.1	3217.1	3205.2	3199.2	3185.3	3187.3	3191.2
32.5°	3031.9	3023.9	3007.9	3002.0	2990.1	2986.1	2988.0
35°	2792.9	2786.9	2773.0	2773.0	2761.0	2757.0	2761.0
37.5°	2549.8	2555.8	2549.8	2555.8	2549.8	2547.8	2549.8
40°	2320.8	2342.6	2346.6	2368.6	2360.6	2372.5	2370.5
42.5°	2101.6	2137.4	2151.4	2169.3	2165.4	2173.3	2179.3
45°	1880.4	1910.4	1924.3	1936.3	1938.3	1942.3	1944.2
47.5°	1671.3	1695.2	1697.2	1711.1	1709.2	1709.2	1715.1
50°	1476.1	1492.0	1496.0	1506.0	1498.0	1494.0	1496.0
52.5°	1294.8	1310.8	1306.7	1310.8	1300.8	1296.8	1298.8
55°	1109.5	1117.5	1117.5	1117.5	1105.6	1105.6	1105.6
57.5°	920.3	922.3	918.3	920.3	918.3	906.4	904.4
60°	747.0	747.0	745.0	747.0	741.1	735.1	735.1
62.5°	583.6	587.7	595.6	587.7	583.6	587.7	581.7
65°	436.3	444.2	442.2	446.2	444.2	444.2	440.2
67.5°	328.7	330.7	332.6	334.7	334.7	334.7	334.7
70°	241.1	247.0	245.0	245.0	245.0	245.0	257.0
72.5°	161.4	169.3	167.3	171.3	171.3	175.3	171.3
75°	109.5	117.5	113.6	119.5	117.5	113.6	123.5
77.5°	73.7	77.7	79.7	81.7	79.7	77.7	79.7
80°	51.8	55.8	53.8	55.8	55.8	55.8	57.8
82.5°	31.9	37.9	35.8	37.9	35.8	37.9	37.9
85°	21.9	23.9	19.9	23.9	21.9	21.9	25.9
87.5°	13.9	12.0	12.0	13.9	12.0	13.9	12.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)