

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: P248644

Luminaire Tested: **LD8B90D010 ER8B909730 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248644
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 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: 6945.0 lumens
Efficiency: N/A
Efficacy: 80.7 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

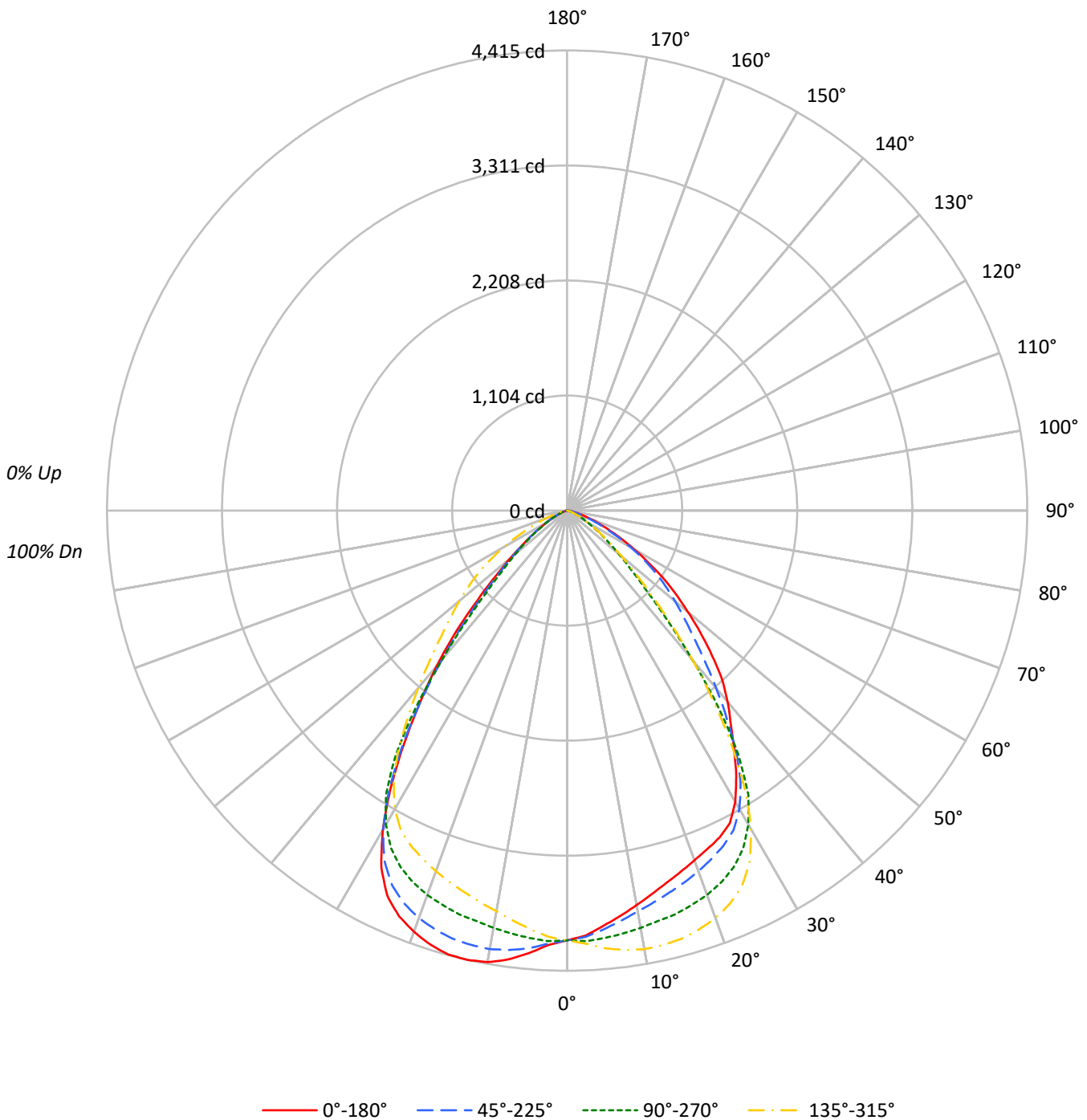
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	392.4	5.7
10°-20°	1136.4	16.4
20°-30°	1720.8	24.8
30°-40°	1724.6	24.8
40°-50°	1083.0	15.6
50°-60°	577.1	8.3
60°-70°	237.3	3.4
70°-80°	62.7	0.9
80°-90°	10.6	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°	3249.6	46.8
0°-40°	4974.3	71.6
0°-60°	6634.4	95.5
0°-90°	6945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6945.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4123	4123	4123	4123	4123	
5°	3998	4117	4264	4117	3998	377
15°	3694	4010	4409	4010	3694	1045
25°	3461	3777	4081	3777	3461	1587
35°	2790	2869	2722	2869	2790	1748
45°	1965	1051	1216	1051	1965	1511
55°	1117	389	411	389	1117	996
65°	445	119	109	119	445	462
75°	125	24	20	24	125	141
85°	26	0	2	0	26	29
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°	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0
2.5°	4080.8	4076.7	4074.7	4078.8	4080.8	4088.8	4086.8	4090.8	4090.8	4092.9	4096.8
5°	3998.2	3996.2	3998.2	3998.2	4006.3	4014.3	4012.3	4018.4	4022.3	4032.5	4036.4
7.5°	3921.7	3921.7	3919.7	3927.7	3931.8	3943.9	3941.8	3951.9	3958.0	3968.0	3982.1
10°	3843.2	3843.2	3845.2	3851.2	3853.3	3871.4	3871.4	3885.5	3893.5	3903.6	3921.7
12.5°	3766.7	3766.7	3778.8	3774.7	3782.8	3796.9	3802.9	3817.0	3829.1	3849.2	3867.4
15°	3694.2	3694.2	3698.3	3708.3	3714.3	3732.5	3742.5	3758.7	3772.8	3792.9	3819.1
17.5°	3631.8	3629.8	3631.8	3643.9	3656.0	3672.1	3680.1	3700.2	3714.3	3740.5	3764.7
20°	3569.4	3573.5	3573.5	3583.5	3591.5	3611.7	3619.7	3641.9	3658.0	3682.1	3710.4
22.5°	3515.0	3513.1	3513.1	3527.1	3533.2	3551.3	3559.3	3579.4	3597.6	3617.7	3643.9
25°	3460.7	3456.6	3464.7	3466.7	3470.7	3490.9	3496.9	3511.0	3529.1	3547.3	3573.5
27.5°	3380.1	3376.2	3378.2	3386.2	3392.2	3408.3	3412.4	3426.5	3440.6	3456.6	3478.8
30°	3225.1	3221.1	3219.1	3233.2	3239.3	3251.3	3257.3	3281.5	3285.5	3303.7	3319.7
32.5°	3019.8	3017.8	3021.8	3033.9	3039.9	3056.1	3064.1	3078.2	3088.2	3098.3	3114.4
35°	2790.3	2786.2	2790.3	2802.4	2802.4	2816.5	2822.5	2828.5	2826.5	2828.5	2824.5
37.5°	2576.9	2574.9	2576.9	2582.9	2576.9	2582.9	2576.9	2564.8	2542.7	2518.5	2494.3
40°	2395.7	2397.7	2385.7	2393.7	2371.5	2367.5	2345.4	2315.2	2270.9	2222.6	2154.2
42.5°	2202.5	2196.4	2188.4	2192.4	2174.3	2160.1	2123.9	2085.7	2029.3	1948.8	1866.2
45°	1964.9	1962.9	1958.8	1956.9	1944.8	1930.7	1900.4	1856.2	1793.8	1711.2	1612.6
47.5°	1733.4	1727.3	1727.3	1729.3	1715.2	1713.2	1689.0	1650.8	1596.5	1515.9	1413.3
50°	1511.9	1509.9	1513.9	1522.0	1511.9	1507.9	1491.8	1465.6	1417.3	1348.9	1252.2
52.5°	1312.6	1310.6	1314.7	1324.7	1320.6	1324.7	1308.6	1288.5	1256.2	1189.8	1105.3
55°	1117.4	1117.4	1117.4	1129.4	1129.4	1129.4	1121.3	1109.3	1079.1	1030.8	952.3
57.5°	914.0	916.0	928.1	930.1	928.1	932.1	930.1	918.0	897.9	863.7	803.3
60°	742.9	742.9	748.9	755.0	752.9	755.0	755.0	748.9	728.8	700.6	652.3
62.5°	587.8	593.9	589.8	593.9	601.9	593.9	589.8	585.9	571.8	553.6	513.3
65°	444.9	449.0	449.0	451.0	446.9	449.0	440.9	434.9	426.8	406.7	380.5
67.5°	338.3	338.3	338.3	338.3	336.2	334.2	332.2	326.2	312.1	304.0	275.8
70°	259.7	247.6	247.6	247.6	247.6	249.7	243.6	235.6	231.5	217.4	197.3
72.5°	173.1	177.2	173.1	173.1	169.1	171.1	163.1	159.0	155.0	147.0	134.9
75°	124.8	114.8	118.7	120.8	114.8	118.7	110.7	102.7	102.7	96.6	90.6
77.5°	80.5	78.6	80.5	82.5	80.5	78.6	74.5	70.4	70.4	68.4	62.4
80°	58.4	56.3	56.3	56.3	54.4	56.3	52.4	52.4	48.3	46.3	42.3
82.5°	38.3	38.3	36.2	38.3	36.2	38.3	32.2	32.2	32.2	30.2	26.2
85°	26.2	22.1	22.1	24.2	20.1	24.2	22.1	20.1	18.1	18.1	16.1
87.5°	12.1	14.1	12.1	14.1	12.1	12.1	14.1	12.1	12.1	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: P248644

CATALOG NUMBER: LD8B90D010 ER8B909730 8LBSW0H

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0
2.5°	4102.9	4104.9	4104.9	4113.0	4117.0	4119.0	4119.0	4135.1	4129.1	4133.1	4137.1
5°	4044.6	4056.6	4060.6	4060.6	4082.8	4090.8	4098.8	4117.0	4119.0	4131.1	4145.2
7.5°	3988.1	4002.2	4010.3	4028.4	4042.5	4056.6	4080.8	4092.9	4104.9	4121.0	4139.1
10°	3933.8	3949.9	3966.0	3980.1	4002.2	4020.4	4036.4	4064.6	4078.8	4100.9	4125.0
12.5°	3881.5	3903.6	3917.7	3941.8	3966.0	3982.1	4006.3	4032.5	4054.6	4076.7	4104.9
15°	3835.2	3861.3	3877.4	3903.6	3929.8	3951.9	3978.1	4010.3	4026.4	4052.6	4078.8
17.5°	3784.8	3813.0	3833.2	3857.3	3889.5	3913.6	3935.8	3968.0	3988.1	4016.3	4046.5
20°	3732.5	3760.7	3784.8	3809.0	3841.2	3865.3	3891.5	3923.7	3945.9	3974.0	3998.2
22.5°	3670.1	3696.3	3722.4	3750.5	3782.8	3802.9	3833.2	3861.3	3885.5	3911.6	3935.8
25°	3589.5	3621.8	3641.9	3668.0	3694.2	3716.3	3748.6	3776.7	3796.9	3821.1	3843.2
27.5°	3494.9	3519.1	3535.2	3557.3	3583.5	3603.6	3627.7	3656.0	3676.1	3698.3	3714.3
30°	3333.8	3356.0	3370.1	3386.2	3412.4	3430.5	3450.7	3476.8	3490.9	3507.0	3521.1
32.5°	3122.4	3140.6	3148.6	3160.7	3178.9	3196.9	3213.1	3235.2	3241.3	3251.3	3251.3
35°	2816.5	2820.5	2818.5	2822.5	2830.6	2840.6	2854.7	2868.8	2876.8	2876.8	2870.9
37.5°	2458.1	2434.0	2407.8	2387.7	2381.6	2377.6	2385.7	2391.6	2399.8	2403.7	2393.7
40°	2085.7	2031.4	1972.9	1920.6	1884.3	1868.3	1862.2	1866.2	1866.2	1880.3	1880.3
42.5°	1765.6	1681.0	1594.5	1515.9	1463.6	1423.4	1405.2	1405.2	1407.2	1417.3	1423.4
45°	1499.9	1393.1	1292.4	1205.9	1133.4	1081.1	1056.9	1050.9	1048.9	1052.9	1067.0
47.5°	1296.5	1185.8	1081.1	974.4	897.9	845.6	823.4	815.3	807.3	815.3	817.4
50°	1137.5	1022.7	912.0	805.3	724.7	678.4	650.2	638.1	636.2	636.2	640.2
52.5°	992.5	885.8	775.1	666.4	581.8	537.5	511.4	505.3	497.3	505.3	505.3
55°	855.6	748.9	640.2	537.5	467.0	420.8	396.6	388.6	384.5	390.5	390.5
57.5°	706.7	616.0	515.4	422.8	352.3	320.1	302.0	291.9	289.9	293.9	289.9
60°	579.8	503.3	416.7	332.2	277.8	243.6	229.5	225.5	221.4	225.5	225.5
62.5°	459.0	394.6	324.1	259.7	213.4	189.3	173.1	173.1	171.1	171.1	173.1
65°	340.2	289.9	239.6	185.2	149.0	130.8	118.7	118.7	116.8	118.7	116.8
67.5°	247.6	213.4	173.1	134.9	106.7	96.6	88.6	82.5	86.6	82.5	80.5
70°	181.2	153.0	124.8	102.7	82.5	72.5	66.5	64.4	60.4	60.4	60.4
72.5°	120.8	102.7	84.5	66.5	54.4	44.2	42.3	38.3	34.2	36.2	40.3
75°	80.5	68.4	60.4	48.3	36.2	36.2	24.2	24.2	20.1	24.2	18.1
77.5°	56.3	46.3	36.2	30.2	24.2	22.1	16.1	16.1	14.1	14.1	14.1
80°	40.3	34.2	26.2	22.1	16.1	16.1	14.1	12.1	10.0	10.0	12.1
82.5°	24.2	18.1	18.1	16.1	10.0	8.0	6.0	8.0	4.1	4.1	4.1
85°	14.1	12.1	10.0	6.0	4.1	4.1	2.0	0.0	2.0	2.0	0.0
87.5°	8.0	4.1	4.1	2.0	0.0	2.0	2.0	0.0	0.0	0.0	4.1
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: P248644

CATALOG NUMBER: LD8B90D010 ER8B909730 8LBSW0H

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0
2.5°	4147.2	4145.2	4149.2	4149.2	4161.3	4159.2	4165.3	4165.3	4161.3	4163.3	4171.3
5°	4161.3	4167.4	4179.4	4189.5	4207.5	4215.7	4225.7	4235.8	4237.8	4243.8	4249.9
7.5°	4161.3	4181.4	4195.5	4213.6	4237.8	4251.9	4274.0	4292.2	4300.2	4310.2	4322.3
10°	4153.2	4173.3	4199.5	4219.6	4249.9	4272.0	4294.1	4322.3	4334.4	4350.5	4366.6
12.5°	4137.1	4159.2	4187.4	4213.6	4247.8	4268.0	4296.1	4322.3	4340.5	4362.6	4380.7
15°	4113.0	4139.1	4165.3	4191.5	4227.7	4251.9	4278.1	4308.2	4326.4	4350.5	4366.6
17.5°	4074.7	4102.9	4127.1	4151.2	4185.4	4213.6	4237.8	4266.0	4284.1	4304.3	4326.4
20°	4028.4	4054.6	4080.8	4100.9	4135.1	4159.2	4185.4	4211.6	4225.7	4229.8	4264.0
22.5°	3970.1	3988.1	4008.3	4040.5	4060.6	4082.8	4107.0	4131.1	4145.2	4167.4	4179.4
25°	3873.4	3891.5	3913.6	3927.7	3951.9	3970.1	3994.2	4020.4	4028.4	4044.6	4056.6
27.5°	3738.5	3748.6	3758.7	3770.7	3784.8	3794.9	3809.0	3821.1	3829.1	3837.1	3845.2
30°	3525.1	3525.1	3525.1	3517.0	3523.1	3529.1	3531.1	3529.1	3529.1	3527.1	3527.1
32.5°	3243.2	3227.2	3209.0	3193.0	3186.9	3178.9	3174.8	3168.8	3158.7	3152.7	3154.7
35°	2862.7	2826.5	2804.4	2784.3	2768.2	2756.1	2750.0	2744.0	2742.0	2734.0	2725.8
37.5°	2387.7	2361.5	2345.4	2333.3	2319.2	2307.1	2309.1	2311.2	2317.2	2313.2	2315.2
40°	1884.3	1878.3	1884.3	1870.3	1866.2	1870.3	1880.3	1894.5	1902.5	1910.5	1924.6
42.5°	1433.4	1443.4	1457.6	1457.6	1463.6	1471.7	1483.7	1505.9	1517.9	1532.0	1548.2
45°	1079.1	1091.2	1109.3	1115.3	1119.3	1129.4	1143.5	1161.6	1169.6	1181.7	1195.8
47.5°	831.5	839.5	849.5	859.6	869.7	873.7	887.8	887.8	897.9	906.0	909.9
50°	648.3	656.3	664.3	670.4	674.4	680.5	684.5	690.5	692.5	696.6	698.6
52.5°	507.3	517.4	517.4	521.4	527.4	533.5	531.5	533.5	535.5	535.5	541.5
55°	396.6	396.6	402.6	402.6	406.7	404.6	406.7	406.7	406.7	406.7	408.7
57.5°	295.9	298.0	304.0	300.0	298.0	302.0	298.0	302.0	300.0	304.0	298.0
60°	227.5	227.5	229.5	229.5	231.5	231.5	231.5	229.5	229.5	227.5	227.5
62.5°	171.1	173.1	175.2	173.1	173.1	173.1	171.1	171.1	169.1	167.1	167.1
65°	114.8	112.8	116.8	112.8	114.8	114.8	112.8	114.8	108.7	110.7	108.7
67.5°	82.5	80.5	78.6	80.5	78.6	76.5	76.5	78.6	80.5	74.5	74.5
70°	54.4	56.3	54.4	56.3	58.4	58.4	56.3	54.4	56.3	52.4	54.4
72.5°	34.2	34.2	34.2	34.2	34.2	36.2	36.2	36.2	32.2	32.2	30.2
75°	16.1	22.1	18.1	16.1	22.1	22.1	20.1	20.1	18.1	18.1	18.1
77.5°	16.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	10.0	12.1	10.0
80°	8.0	8.0	8.0	6.0	8.0	8.0	10.0	8.0	8.0	6.0	10.0
82.5°	4.1	4.1	4.1	0.0	2.0	4.1	4.1	2.0	4.1	4.1	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: P248644

CATALOG NUMBER: LD8B90D010 ER8B909730 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0
2.5°	4169.3	4167.4	4169.3	4171.3	4169.3	4167.4	4169.3	4171.3	4163.3	4161.3	4165.3
5°	4257.9	4257.9	4261.9	4264.0	4261.9	4257.9	4257.9	4249.9	4243.8	4237.8	4235.8
7.5°	4334.4	4338.5	4342.5	4344.4	4342.5	4338.5	4334.4	4322.3	4310.2	4300.2	4292.2
10°	4380.7	4386.8	4394.8	4398.8	4394.8	4386.8	4380.7	4366.6	4350.5	4334.4	4322.3
12.5°	4400.9	4406.9	4416.9	4415.0	4416.9	4406.9	4400.9	4380.7	4362.6	4340.5	4322.3
15°	4386.8	4394.8	4404.9	4408.9	4404.9	4394.8	4386.8	4366.6	4350.5	4326.4	4308.2
17.5°	4342.5	4354.6	4360.6	4366.6	4360.6	4354.6	4342.5	4326.4	4304.3	4284.1	4266.0
20°	4282.0	4290.2	4298.2	4300.2	4298.2	4290.2	4282.0	4264.0	4229.8	4225.7	4211.6
22.5°	4195.5	4201.6	4219.6	4213.6	4219.6	4201.6	4195.5	4179.4	4167.4	4145.2	4131.1
25°	4070.7	4076.7	4078.8	4080.8	4078.8	4076.7	4070.7	4056.6	4044.6	4028.4	4020.4
27.5°	3855.3	3855.3	3859.3	3861.3	3859.3	3855.3	3855.3	3845.2	3837.1	3829.1	3821.1
30°	3529.1	3529.1	3529.1	3539.2	3529.1	3529.1	3529.1	3527.1	3527.1	3529.1	3529.1
32.5°	3152.7	3148.6	3144.6	3148.6	3144.6	3148.6	3152.7	3154.7	3152.7	3158.7	3168.8
35°	2725.8	2723.9	2729.9	2721.9	2729.9	2723.9	2725.8	2725.8	2734.0	2742.0	2744.0
37.5°	2317.2	2313.2	2321.2	2313.2	2321.2	2313.2	2317.2	2315.2	2313.2	2317.2	2311.2
40°	1928.7	1932.7	1932.7	1948.8	1932.7	1932.7	1928.7	1924.6	1910.5	1902.5	1894.5
42.5°	1556.2	1568.3	1564.2	1576.3	1564.2	1568.3	1556.2	1548.2	1532.0	1517.9	1505.9
45°	1203.9	1212.0	1212.0	1216.0	1212.0	1212.0	1203.9	1195.8	1181.7	1169.6	1161.6
47.5°	924.0	924.0	924.0	926.1	924.0	924.0	924.0	909.9	906.0	897.9	887.8
50°	702.6	704.6	706.7	708.7	706.7	704.6	702.6	698.6	696.6	692.5	690.5
52.5°	539.5	541.5	537.5	541.5	537.5	541.5	539.5	541.5	535.5	535.5	533.5
55°	408.7	406.7	408.7	410.7	408.7	406.7	408.7	408.7	406.7	406.7	406.7
57.5°	300.0	295.9	295.9	295.9	295.9	295.9	300.0	298.0	304.0	300.0	302.0
60°	223.5	225.5	225.5	227.5	225.5	225.5	223.5	227.5	227.5	229.5	229.5
62.5°	165.1	171.1	167.1	171.1	167.1	171.1	165.1	167.1	167.1	169.1	171.1
65°	106.7	106.7	106.7	108.7	106.7	106.7	106.7	108.7	110.7	108.7	114.8
67.5°	72.5	74.5	78.6	76.5	78.6	74.5	72.5	74.5	74.5	80.5	78.6
70°	58.4	52.4	52.4	58.4	52.4	52.4	58.4	54.4	52.4	56.3	54.4
72.5°	34.2	30.2	34.2	34.2	34.2	30.2	34.2	30.2	32.2	32.2	36.2
75°	18.1	16.1	14.1	20.1	14.1	16.1	18.1	18.1	18.1	18.1	20.1
77.5°	12.1	10.0	14.1	14.1	14.1	10.0	12.1	10.0	12.1	10.0	12.1
80°	6.0	8.0	6.0	10.0	6.0	8.0	6.0	10.0	6.0	8.0	8.0
82.5°	2.0	4.1	4.1	4.1	4.1	4.1	2.0	2.0	4.1	4.1	2.0
85°	0.0	4.1	2.0	2.0	2.0	4.1	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: P248644

CATALOG NUMBER: LD8B90D010 ER8B909730 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0
2.5°	4165.3	4159.2	4161.3	4149.2	4149.2	4145.2	4147.2	4137.1	4133.1	4129.1	4135.1
5°	4225.7	4215.7	4207.5	4189.5	4179.4	4167.4	4161.3	4145.2	4131.1	4119.0	4117.0
7.5°	4274.0	4251.9	4237.8	4213.6	4195.5	4181.4	4161.3	4139.1	4121.0	4104.9	4092.9
10°	4294.1	4272.0	4249.9	4219.6	4199.5	4173.3	4153.2	4125.0	4100.9	4078.8	4064.6
12.5°	4296.1	4268.0	4247.8	4213.6	4187.4	4159.2	4137.1	4104.9	4076.7	4054.6	4032.5
15°	4278.1	4251.9	4227.7	4191.5	4165.3	4139.1	4113.0	4078.8	4052.6	4026.4	4010.3
17.5°	4237.8	4213.6	4185.4	4151.2	4127.1	4102.9	4074.7	4046.5	4016.3	3988.1	3968.0
20°	4185.4	4159.2	4135.1	4100.9	4080.8	4054.6	4028.4	3998.2	3974.0	3945.9	3923.7
22.5°	4107.0	4082.8	4060.6	4040.5	4008.3	3988.1	3970.1	3935.8	3911.6	3885.5	3861.3
25°	3994.2	3970.1	3951.9	3927.7	3913.6	3891.5	3873.4	3843.2	3821.1	3796.9	3776.7
27.5°	3809.0	3794.9	3784.8	3770.7	3758.7	3748.6	3738.5	3714.3	3698.3	3676.1	3656.0
30°	3531.1	3529.1	3523.1	3517.0	3525.1	3525.1	3525.1	3521.1	3507.0	3490.9	3476.8
32.5°	3174.8	3178.9	3186.9	3193.0	3209.0	3227.2	3243.2	3251.3	3251.3	3241.3	3235.2
35°	2750.0	2756.1	2768.2	2784.3	2804.4	2826.5	2862.7	2870.9	2876.8	2876.8	2868.8
37.5°	2309.1	2307.1	2319.2	2333.3	2345.4	2361.5	2387.7	2393.7	2403.7	2399.8	2391.6
40°	1880.3	1870.3	1866.2	1870.3	1884.3	1878.3	1884.3	1880.3	1880.3	1866.2	1866.2
42.5°	1483.7	1471.7	1463.6	1457.6	1457.6	1443.4	1433.4	1423.4	1417.3	1407.2	1405.2
45°	1143.5	1129.4	1119.3	1115.3	1109.3	1091.2	1079.1	1067.0	1052.9	1048.9	1050.9
47.5°	887.8	873.7	869.7	859.6	849.5	839.5	831.5	817.4	815.3	807.3	815.3
50°	684.5	680.5	674.4	670.4	664.3	656.3	648.3	640.2	636.2	636.2	638.1
52.5°	531.5	533.5	527.4	521.4	517.4	517.4	507.3	505.3	505.3	497.3	505.3
55°	406.7	404.6	406.7	402.6	402.6	396.6	396.6	390.5	390.5	384.5	388.6
57.5°	298.0	302.0	298.0	300.0	304.0	298.0	295.9	289.9	293.9	289.9	291.9
60°	231.5	231.5	231.5	229.5	229.5	227.5	227.5	225.5	225.5	221.4	225.5
62.5°	171.1	173.1	173.1	173.1	175.2	173.1	171.1	173.1	171.1	171.1	173.1
65°	112.8	114.8	114.8	112.8	116.8	112.8	114.8	116.8	118.7	116.8	118.7
67.5°	76.5	76.5	78.6	80.5	78.6	80.5	82.5	80.5	82.5	86.6	82.5
70°	56.3	58.4	58.4	56.3	54.4	56.3	54.4	60.4	60.4	60.4	64.4
72.5°	36.2	36.2	34.2	34.2	34.2	34.2	34.2	40.3	36.2	34.2	38.3
75°	20.1	22.1	22.1	16.1	18.1	22.1	16.1	18.1	24.2	20.1	24.2
77.5°	12.1	12.1	12.1	12.1	12.1	12.1	16.1	14.1	14.1	14.1	16.1
80°	10.0	8.0	8.0	6.0	8.0	8.0	8.0	12.1	10.0	10.0	12.1
82.5°	4.1	4.1	2.0	0.0	4.1	4.1	4.1	4.1	4.1	4.1	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	4.1	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: P248644

CATALOG NUMBER: LD8B90D010 ER8B909730 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0
2.5°	4119.0	4119.0	4117.0	4113.0	4104.9	4104.9	4102.9	4096.8	4092.9	4090.8	4090.8
5°	4098.8	4090.8	4082.8	4060.6	4060.6	4056.6	4044.6	4036.4	4032.5	4022.3	4018.4
7.5°	4080.8	4056.6	4042.5	4028.4	4010.3	4002.2	3988.1	3982.1	3968.0	3958.0	3951.9
10°	4036.4	4020.4	4002.2	3980.1	3966.0	3949.9	3933.8	3921.7	3903.6	3893.5	3885.5
12.5°	4006.3	3982.1	3966.0	3941.8	3917.7	3903.6	3881.5	3867.4	3849.2	3829.1	3817.0
15°	3978.1	3951.9	3929.8	3903.6	3877.4	3861.3	3835.2	3819.1	3792.9	3772.8	3758.7
17.5°	3935.8	3913.6	3889.5	3857.3	3833.2	3813.0	3784.8	3764.7	3740.5	3714.3	3700.2
20°	3891.5	3865.3	3841.2	3809.0	3784.8	3760.7	3732.5	3710.4	3682.1	3658.0	3641.9
22.5°	3833.2	3802.9	3782.8	3750.5	3722.4	3696.3	3670.1	3643.9	3617.7	3597.6	3579.4
25°	3748.6	3716.3	3694.2	3668.0	3641.9	3621.8	3589.5	3573.5	3547.3	3529.1	3511.0
27.5°	3627.7	3603.6	3583.5	3557.3	3535.2	3519.1	3494.9	3478.8	3456.6	3440.6	3426.5
30°	3450.7	3430.5	3412.4	3386.2	3370.1	3356.0	3333.8	3319.7	3303.7	3285.5	3281.5
32.5°	3213.1	3196.9	3178.9	3160.7	3148.6	3140.6	3122.4	3114.4	3098.3	3088.2	3078.2
35°	2854.7	2840.6	2830.6	2822.5	2818.5	2820.5	2816.5	2824.5	2828.5	2826.5	2828.5
37.5°	2385.7	2377.6	2381.6	2387.7	2407.8	2434.0	2458.1	2494.3	2518.5	2542.7	2564.8
40°	1862.2	1868.3	1884.3	1920.6	1972.9	2031.4	2085.7	2154.2	2222.6	2270.9	2315.2
42.5°	1405.2	1423.4	1463.6	1515.9	1594.5	1681.0	1765.6	1866.2	1948.8	2029.3	2085.7
45°	1056.9	1081.1	1133.4	1205.9	1292.4	1393.1	1499.9	1612.6	1711.2	1793.8	1856.2
47.5°	823.4	845.6	897.9	974.4	1081.1	1185.8	1296.5	1413.3	1515.9	1596.5	1650.8
50°	650.2	678.4	724.7	805.3	912.0	1022.7	1137.5	1252.2	1348.9	1417.3	1465.6
52.5°	511.4	537.5	581.8	666.4	775.1	885.8	992.5	1105.3	1189.8	1256.2	1288.5
55°	396.6	420.8	467.0	537.5	640.2	748.9	855.6	952.3	1030.8	1079.1	1109.3
57.5°	302.0	320.1	352.3	422.8	515.4	616.0	706.7	803.3	863.7	897.9	918.0
60°	229.5	243.6	277.8	332.2	416.7	503.3	579.8	652.3	700.6	728.8	748.9
62.5°	173.1	189.3	213.4	259.7	324.1	394.6	459.0	513.3	553.6	571.8	585.9
65°	118.7	130.8	149.0	185.2	239.6	289.9	340.2	380.5	406.7	426.8	434.9
67.5°	88.6	96.6	106.7	134.9	173.1	213.4	247.6	275.8	304.0	312.1	326.2
70°	66.5	72.5	82.5	102.7	124.8	153.0	181.2	197.3	217.4	231.5	235.6
72.5°	42.3	44.2	54.4	66.5	84.5	102.7	120.8	134.9	147.0	155.0	159.0
75°	24.2	36.2	36.2	48.3	60.4	68.4	80.5	90.6	96.6	102.7	102.7
77.5°	16.1	22.1	24.2	30.2	36.2	46.3	56.3	62.4	68.4	70.4	70.4
80°	14.1	16.1	16.1	22.1	26.2	34.2	40.3	42.3	46.3	48.3	52.4
82.5°	6.0	8.0	10.0	16.1	18.1	18.1	24.2	26.2	30.2	32.2	32.2
85°	2.0	4.1	4.1	6.0	10.0	12.1	14.1	16.1	18.1	18.1	20.1
87.5°	2.0	2.0	0.0	2.0	4.1	4.1	8.0	8.0	8.0	12.1	12.1
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: P248644

CATALOG NUMBER: LD8B90D010 ER8B909730 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0	4123.0
2.5°	4086.8	4088.8	4080.8	4078.8	4074.7	4076.7	4080.8
5°	4012.3	4014.3	4006.3	3998.2	3998.2	3996.2	3998.2
7.5°	3941.8	3943.9	3931.8	3927.7	3919.7	3921.7	3921.7
10°	3871.4	3871.4	3853.3	3851.2	3845.2	3843.2	3843.2
12.5°	3802.9	3796.9	3782.8	3774.7	3778.8	3766.7	3766.7
15°	3742.5	3732.5	3714.3	3708.3	3698.3	3694.2	3694.2
17.5°	3680.1	3672.1	3656.0	3643.9	3631.8	3629.8	3631.8
20°	3619.7	3611.7	3591.5	3583.5	3573.5	3573.5	3569.4
22.5°	3559.3	3551.3	3533.2	3527.1	3513.1	3513.1	3515.0
25°	3496.9	3490.9	3470.7	3466.7	3464.7	3456.6	3460.7
27.5°	3412.4	3408.3	3392.2	3386.2	3378.2	3376.2	3380.1
30°	3257.3	3251.3	3239.3	3233.2	3219.1	3221.1	3225.1
32.5°	3064.1	3056.1	3039.9	3033.9	3021.8	3017.8	3019.8
35°	2822.5	2816.5	2802.4	2802.4	2790.3	2786.2	2790.3
37.5°	2576.9	2582.9	2576.9	2582.9	2576.9	2574.9	2576.9
40°	2345.4	2367.5	2371.5	2393.7	2385.7	2397.7	2395.7
42.5°	2123.9	2160.1	2174.3	2192.4	2188.4	2196.4	2202.5
45°	1900.4	1930.7	1944.8	1956.9	1958.8	1962.9	1964.9
47.5°	1689.0	1713.2	1715.2	1729.3	1727.3	1727.3	1733.4
50°	1491.8	1507.9	1511.9	1522.0	1513.9	1509.9	1511.9
52.5°	1308.6	1324.7	1320.6	1324.7	1314.7	1310.6	1312.6
55°	1121.3	1129.4	1129.4	1129.4	1117.4	1117.4	1117.4
57.5°	930.1	932.1	928.1	930.1	928.1	916.0	914.0
60°	755.0	755.0	752.9	755.0	748.9	742.9	742.9
62.5°	589.8	593.9	601.9	593.9	589.8	593.9	587.8
65°	440.9	449.0	446.9	451.0	449.0	449.0	444.9
67.5°	332.2	334.2	336.2	338.3	338.3	338.3	338.3
70°	243.6	249.7	247.6	247.6	247.6	247.6	259.7
72.5°	163.1	171.1	169.1	173.1	173.1	177.2	173.1
75°	110.7	118.7	114.8	120.8	118.7	114.8	124.8
77.5°	74.5	78.6	80.5	82.5	80.5	78.6	80.5
80°	52.4	56.3	54.4	56.3	56.3	56.3	58.4
82.5°	32.2	38.3	36.2	38.3	36.2	38.3	38.3
85°	22.1	24.2	20.1	24.2	22.1	22.1	26.2
87.5°	14.1	12.1	12.1	14.1	12.1	14.1	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)