

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: P248852

Luminaire Tested: **LD8B100D010 ER8B1009727 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248852
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: LD8B100D010 ER8B1009727 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7009.0 lumens
Efficiency: N/A
Efficacy: 65.9 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

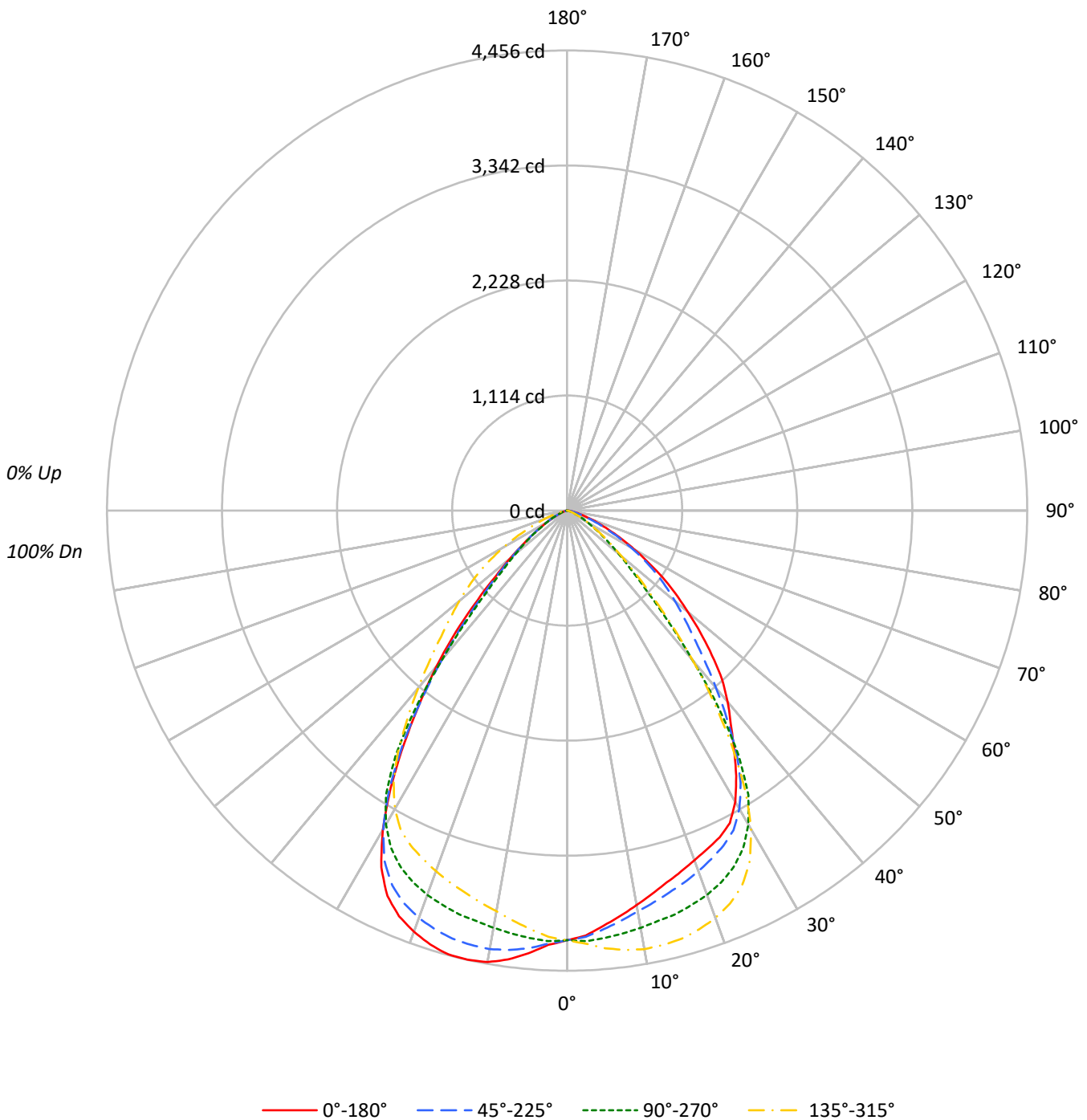
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	396.1	5.7
10°-20°	1146.9	16.4
20°-30°	1736.6	24.8
30°-40°	1740.5	24.8
40°-50°	1093.0	15.6
50°-60°	582.4	8.3
60°-70°	239.5	3.4
70°-80°	63.3	0.9
80°-90°	10.7	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°	3279.6	46.8
0°-40°	5020.1	71.6
0°-60°	6695.5	95.5
0°-90°	7009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7009.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4161	4161	4161	4161	4161	
5°	4035	4155	4303	4155	4035	381
15°	3728	4047	4450	4047	3728	1054
25°	3493	3812	4118	3812	3493	1602
35°	2816	2895	2747	2895	2816	1764
45°	1983	1061	1227	1061	1983	1525
55°	1128	392	414	392	1128	1005
65°	449	120	110	120	449	466
75°	126	24	20	24	126	143
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°	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0
2.5°	4118.4	4114.3	4112.3	4116.4	4118.4	4126.5	4124.5	4128.5	4128.5	4130.6	4134.6
5°	4035.1	4033.0	4035.1	4035.1	4043.2	4051.3	4049.3	4055.4	4059.4	4069.6	4073.6
7.5°	3957.9	3957.9	3955.8	3963.9	3968.0	3980.2	3978.1	3988.3	3994.4	4004.6	4018.8
10°	3878.6	3878.6	3880.6	3886.7	3888.8	3907.0	3907.0	3921.3	3929.4	3939.6	3957.9
12.5°	3801.4	3801.4	3813.6	3809.5	3817.6	3831.9	3838.0	3852.2	3864.4	3884.7	3903.0
15°	3728.2	3728.2	3732.3	3742.5	3748.6	3766.9	3777.0	3793.3	3807.5	3827.8	3854.3
17.5°	3665.3	3663.3	3665.3	3677.5	3689.7	3705.9	3714.0	3734.3	3748.6	3775.0	3799.4
20°	3602.3	3606.4	3606.4	3616.5	3624.6	3644.9	3653.1	3675.5	3691.7	3716.0	3744.6
22.5°	3547.4	3545.4	3545.4	3559.6	3565.8	3584.0	3592.1	3612.4	3630.7	3651.1	3677.5
25°	3492.6	3488.5	3496.7	3498.7	3502.7	3523.0	3529.1	3543.3	3561.7	3580.0	3606.4
27.5°	3411.3	3407.3	3409.3	3417.4	3423.5	3439.7	3443.8	3458.0	3472.3	3488.5	3510.9
30°	3254.8	3250.8	3248.8	3263.0	3269.1	3281.2	3287.4	3311.8	3315.8	3334.1	3350.3
32.5°	3047.6	3045.6	3049.7	3061.8	3067.9	3084.2	3092.3	3106.5	3116.7	3126.9	3143.1
35°	2816.0	2811.9	2816.0	2828.2	2828.2	2842.5	2848.6	2854.6	2852.6	2854.6	2850.6
37.5°	2600.7	2598.6	2600.7	2606.7	2600.7	2606.7	2600.7	2588.5	2566.1	2541.7	2517.3
40°	2417.8	2419.8	2407.7	2415.8	2393.4	2389.4	2367.0	2336.5	2291.8	2243.1	2174.0
42.5°	2222.8	2216.7	2208.5	2212.6	2194.3	2180.0	2143.5	2104.9	2048.0	1966.8	1883.4
45°	1983.0	1981.0	1976.9	1974.9	1962.7	1948.5	1917.9	1873.3	1810.3	1727.0	1627.4
47.5°	1749.3	1743.2	1743.2	1745.2	1731.0	1729.0	1704.6	1666.0	1611.2	1529.9	1426.3
50°	1525.8	1523.8	1527.9	1536.0	1525.8	1521.8	1505.6	1479.1	1430.4	1361.3	1263.7
52.5°	1324.7	1322.7	1326.8	1336.9	1332.8	1336.9	1320.7	1300.3	1267.8	1200.7	1115.4
55°	1127.6	1127.6	1127.6	1139.8	1139.8	1139.8	1131.7	1119.5	1089.0	1040.3	961.1
57.5°	922.4	924.4	936.6	938.6	936.6	940.7	938.6	926.4	906.2	871.7	810.7
60°	749.7	749.7	755.8	761.9	759.8	761.9	761.9	755.8	735.5	707.1	658.3
62.5°	593.3	599.4	595.3	599.4	607.5	599.4	595.3	591.3	577.0	558.7	518.1
65°	449.0	453.1	453.1	455.1	451.0	453.1	445.0	438.9	430.8	410.4	384.0
67.5°	341.4	341.4	341.4	341.4	339.3	337.3	335.3	329.2	314.9	306.8	278.3
70°	262.1	249.9	249.9	249.9	249.9	252.0	245.9	237.8	233.7	219.4	199.1
72.5°	174.7	178.8	174.7	174.7	170.7	172.7	164.6	160.5	156.5	148.4	136.1
75°	125.9	115.8	119.8	121.9	115.8	119.8	111.7	103.6	103.6	97.5	91.4
77.5°	81.3	79.3	81.3	83.3	81.3	79.3	75.2	71.1	71.1	69.1	63.0
80°	59.0	56.9	56.9	56.9	54.9	56.9	52.9	52.9	48.8	46.7	42.7
82.5°	38.6	38.6	36.5	38.6	36.5	38.6	32.5	32.5	32.5	30.4	26.4
85°	26.4	22.3	22.3	24.4	20.3	24.4	22.3	20.3	18.3	18.3	16.2
87.5°	12.2	14.2	12.2	14.2	12.2	12.2	14.2	12.2	12.2	8.1	8.1
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: P248852

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0
2.5°	4140.7	4142.7	4142.7	4150.9	4154.9	4156.9	4156.9	4173.2	4167.1	4171.2	4175.2
5°	4081.8	4094.0	4098.0	4098.0	4120.4	4128.5	4136.6	4154.9	4156.9	4169.1	4183.4
7.5°	4024.9	4039.1	4047.3	4065.5	4079.7	4094.0	4118.4	4130.6	4142.7	4159.0	4177.2
10°	3970.0	3986.3	4002.5	4016.8	4039.1	4057.4	4073.6	4102.1	4116.4	4138.7	4163.0
12.5°	3917.2	3939.6	3953.8	3978.1	4002.5	4018.8	4043.2	4069.6	4091.9	4114.3	4142.7
15°	3870.5	3896.9	3913.1	3939.6	3966.0	3988.3	4014.8	4047.3	4063.5	4089.9	4116.4
17.5°	3819.6	3848.2	3868.5	3892.8	3925.4	3949.7	3972.1	4004.6	4024.9	4053.3	4083.8
20°	3766.9	3795.3	3819.6	3844.1	3876.6	3900.9	3927.4	3959.9	3982.2	4010.7	4035.1
22.5°	3703.9	3730.3	3756.7	3785.1	3817.6	3838.0	3868.5	3896.9	3921.3	3947.7	3972.1
25°	3622.6	3655.2	3675.5	3701.8	3728.2	3750.6	3783.1	3811.5	3831.9	3856.3	3878.6
27.5°	3527.1	3551.5	3567.8	3590.1	3616.5	3636.8	3661.2	3689.7	3710.0	3732.3	3748.6
30°	3364.5	3387.0	3401.2	3417.4	3443.8	3462.1	3482.5	3508.8	3523.0	3539.3	3553.5
32.5°	3151.2	3169.5	3177.6	3189.8	3208.2	3226.4	3242.7	3265.0	3271.1	3281.2	3281.2
35°	2842.5	2846.5	2844.5	2848.6	2856.7	2866.8	2881.0	2895.2	2903.3	2903.3	2897.3
37.5°	2480.8	2456.4	2430.0	2409.7	2403.6	2399.5	2407.7	2413.7	2421.9	2425.9	2415.8
40°	2104.9	2050.1	1991.1	1938.3	1901.7	1885.5	1879.4	1883.4	1883.4	1897.6	1897.6
42.5°	1781.9	1696.5	1609.2	1529.9	1477.0	1436.5	1418.2	1418.2	1420.2	1430.4	1436.5
45°	1513.7	1406.0	1304.4	1217.0	1143.9	1091.0	1066.7	1060.6	1058.6	1062.6	1076.8
47.5°	1308.5	1196.7	1091.0	983.4	906.2	853.3	831.0	822.8	814.7	822.8	824.9
50°	1148.0	1032.1	920.4	812.7	731.4	684.7	656.2	644.0	642.0	642.0	646.1
52.5°	1001.6	894.0	782.3	672.5	587.2	542.5	516.1	510.0	501.9	510.0	510.0
55°	863.5	755.8	646.1	542.5	471.3	424.7	400.2	392.1	388.0	394.1	394.1
57.5°	713.2	621.7	520.2	426.7	355.6	323.1	304.7	294.6	292.5	296.6	292.5
60°	585.1	508.0	420.6	335.3	280.4	245.9	231.7	227.6	223.5	227.6	227.6
62.5°	463.2	398.2	327.1	262.1	215.3	191.0	174.7	174.7	172.7	172.7	174.7
65°	343.4	292.5	241.8	186.9	150.4	132.0	119.8	119.8	117.8	119.8	117.8
67.5°	249.9	215.3	174.7	136.1	107.7	97.5	89.4	83.3	87.4	83.3	81.3
70°	182.9	154.4	125.9	103.6	83.3	73.2	67.1	65.0	61.0	61.0	61.0
72.5°	121.9	103.6	85.3	67.1	54.9	44.7	42.7	38.6	34.5	36.5	40.6
75°	81.3	69.1	61.0	48.8	36.5	36.5	24.4	24.4	20.3	24.4	18.3
77.5°	56.9	46.7	36.5	30.4	24.4	22.3	16.2	16.2	14.2	14.2	14.2
80°	40.6	34.5	26.4	22.3	16.2	16.2	14.2	12.2	10.1	10.1	12.2
82.5°	24.4	18.3	18.3	16.2	10.1	8.1	6.1	8.1	4.1	4.1	4.1
85°	14.2	12.2	10.1	6.1	4.1	4.1	2.0	0.0	2.0	2.0	0.0
87.5°	8.1	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



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CATALOG NUMBER: LD8B100D010 ER8B1009727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0
2.5°	4185.4	4183.4	4187.4	4187.4	4199.7	4197.6	4203.7	4203.7	4199.7	4201.7	4209.8
5°	4199.7	4205.8	4217.9	4228.1	4246.3	4254.5	4264.6	4274.8	4276.8	4283.0	4289.1
7.5°	4199.7	4220.0	4234.2	4252.4	4276.8	4291.1	4313.4	4331.7	4339.8	4349.9	4362.1
10°	4191.5	4211.8	4238.2	4258.5	4289.1	4311.4	4333.7	4362.1	4374.4	4390.6	4406.9
12.5°	4175.2	4197.6	4226.0	4252.4	4287.0	4307.3	4335.7	4362.1	4380.5	4402.8	4421.1
15°	4150.9	4177.2	4203.7	4230.1	4266.6	4291.1	4317.5	4347.9	4366.2	4390.6	4406.9
17.5°	4112.3	4140.7	4165.1	4189.5	4224.0	4252.4	4276.8	4305.3	4323.6	4343.9	4366.2
20°	4065.5	4091.9	4118.4	4138.7	4173.2	4197.6	4224.0	4250.4	4264.6	4268.7	4303.3
22.5°	4006.6	4024.9	4045.2	4077.7	4098.0	4120.4	4144.8	4169.1	4183.4	4205.8	4217.9
25°	3909.0	3927.4	3949.7	3963.9	3988.3	4006.6	4031.0	4057.4	4065.5	4081.8	4094.0
27.5°	3773.0	3783.1	3793.3	3805.4	3819.6	3829.9	3844.1	3856.3	3864.4	3872.5	3880.6
30°	3557.6	3557.6	3557.6	3549.4	3555.6	3561.7	3563.7	3561.7	3561.7	3559.6	3559.6
32.5°	3273.1	3256.9	3238.6	3222.4	3216.3	3208.2	3204.1	3198.0	3187.8	3181.7	3183.7
35°	2889.1	2852.6	2830.2	2809.9	2793.7	2781.5	2775.4	2769.3	2767.3	2759.2	2751.0
37.5°	2409.7	2383.2	2367.0	2354.8	2340.6	2328.4	2330.4	2332.5	2338.5	2334.5	2336.5
40°	1901.7	1895.6	1901.7	1887.5	1883.4	1887.5	1897.6	1911.9	1920.0	1928.1	1942.4
42.5°	1446.6	1456.7	1471.0	1471.0	1477.0	1485.2	1497.4	1519.8	1531.9	1546.1	1562.4
45°	1089.0	1101.2	1119.5	1125.6	1129.7	1139.8	1154.1	1172.3	1180.4	1192.6	1206.8
47.5°	839.1	847.2	857.4	867.6	877.7	881.8	896.0	896.0	906.2	914.3	918.3
50°	654.2	662.3	670.4	676.6	680.7	686.8	690.8	696.9	698.9	703.0	705.0
52.5°	512.0	522.2	522.2	526.2	532.3	538.4	536.4	538.4	540.4	540.4	546.5
55°	400.2	400.2	406.4	406.4	410.4	408.4	410.4	410.4	410.4	410.4	412.5
57.5°	298.6	300.7	306.8	302.7	300.7	304.7	300.7	304.7	302.7	306.8	300.7
60°	229.6	229.6	231.7	231.7	233.7	233.7	233.7	231.7	231.7	229.6	229.6
62.5°	172.7	174.7	176.8	174.7	174.7	174.7	172.7	172.7	170.7	168.6	168.6
65°	115.8	113.8	117.8	113.8	115.8	115.8	113.8	115.8	109.7	111.7	109.7
67.5°	83.3	81.3	79.3	81.3	79.3	77.2	77.2	79.3	81.3	75.2	75.2
70°	54.9	56.9	54.9	56.9	59.0	59.0	56.9	54.9	56.9	52.9	54.9
72.5°	34.5	34.5	34.5	34.5	34.5	36.5	36.5	36.5	32.5	32.5	30.4
75°	16.2	22.3	18.3	16.2	22.3	22.3	20.3	20.3	18.3	18.3	18.3
77.5°	16.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	10.1	12.2	10.1
80°	8.1	8.1	8.1	6.1	8.1	8.1	10.1	8.1	8.1	6.1	10.1
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: P248852

CATALOG NUMBER: LD8B100D010 ER8B1009727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0
2.5°	4207.8	4205.8	4207.8	4209.8	4207.8	4205.8	4207.8	4209.8	4201.7	4199.7	4203.7
5°	4297.2	4297.2	4301.2	4303.3	4301.2	4297.2	4297.2	4289.1	4283.0	4276.8	4274.8
7.5°	4374.4	4378.5	4382.5	4384.5	4382.5	4378.5	4374.4	4362.1	4349.9	4339.8	4331.7
10°	4421.1	4427.2	4435.3	4439.3	4435.3	4427.2	4421.1	4406.9	4390.6	4374.4	4362.1
12.5°	4441.4	4447.5	4457.7	4455.6	4457.7	4447.5	4441.4	4421.1	4402.8	4380.5	4362.1
15°	4427.2	4435.3	4445.4	4449.5	4445.4	4435.3	4427.2	4406.9	4390.6	4366.2	4347.9
17.5°	4382.5	4394.7	4400.8	4406.9	4400.8	4394.7	4382.5	4366.2	4343.9	4323.6	4305.3
20°	4321.5	4329.7	4337.8	4339.8	4337.8	4329.7	4321.5	4303.3	4268.7	4264.6	4250.4
22.5°	4234.2	4240.3	4258.5	4252.4	4258.5	4240.3	4234.2	4217.9	4205.8	4183.4	4169.1
25°	4108.2	4114.3	4116.4	4118.4	4116.4	4114.3	4108.2	4094.0	4081.8	4065.5	4057.4
27.5°	3890.8	3890.8	3894.8	3896.9	3894.8	3890.8	3890.8	3880.6	3872.5	3864.4	3856.3
30°	3561.7	3561.7	3561.7	3571.9	3561.7	3561.7	3561.7	3559.6	3559.6	3561.7	3561.7
32.5°	3181.7	3177.6	3173.6	3177.6	3173.6	3177.6	3181.7	3183.7	3181.7	3187.8	3198.0
35°	2751.0	2749.0	2755.1	2746.9	2755.1	2749.0	2751.0	2751.0	2759.2	2767.3	2769.3
37.5°	2338.5	2334.5	2342.6	2334.5	2342.6	2334.5	2338.5	2336.5	2334.5	2338.5	2332.5
40°	1946.5	1950.5	1950.5	1966.8	1950.5	1950.5	1946.5	1942.4	1928.1	1920.0	1911.9
42.5°	1570.5	1582.8	1578.7	1590.9	1578.7	1582.8	1570.5	1562.4	1546.1	1531.9	1519.8
45°	1215.0	1223.2	1223.2	1227.2	1223.2	1223.2	1215.0	1206.8	1192.6	1180.4	1172.3
47.5°	932.5	932.5	932.5	934.6	932.5	932.5	932.5	918.3	914.3	906.2	896.0
50°	709.1	711.1	713.2	715.2	713.2	711.1	709.1	705.0	703.0	698.9	696.9
52.5°	544.5	546.5	542.5	546.5	542.5	546.5	544.5	546.5	540.4	540.4	538.4
55°	412.5	410.4	412.5	414.5	412.5	410.4	412.5	412.5	410.4	410.4	410.4
57.5°	302.7	298.6	298.6	298.6	298.6	298.6	302.7	300.7	306.8	302.7	304.7
60°	225.5	227.6	227.6	229.6	227.6	227.6	225.5	229.6	229.6	231.7	231.7
62.5°	166.6	172.7	168.6	172.7	168.6	172.7	166.6	168.6	168.6	170.7	172.7
65°	107.7	107.7	107.7	109.7	107.7	107.7	107.7	109.7	111.7	109.7	115.8
67.5°	73.2	75.2	79.3	77.2	79.3	75.2	73.2	75.2	75.2	81.3	79.3
70°	59.0	52.9	52.9	59.0	52.9	52.9	59.0	54.9	52.9	56.9	54.9
72.5°	34.5	30.4	34.5	34.5	34.5	30.4	34.5	30.4	32.5	32.5	36.5
75°	18.3	16.2	14.2	20.3	14.2	16.2	18.3	18.3	18.3	18.3	20.3
77.5°	12.2	10.1	14.2	14.2	14.2	10.1	12.2	10.1	12.2	10.1	12.2
80°	6.1	8.1	6.1	10.1	6.1	8.1	6.1	10.1	6.1	8.1	8.1
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: P248852

CATALOG NUMBER: LD8B100D010 ER8B1009727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0
2.5°	4203.7	4197.6	4199.7	4187.4	4187.4	4183.4	4185.4	4175.2	4171.2	4167.1	4173.2
5°	4264.6	4254.5	4246.3	4228.1	4217.9	4205.8	4199.7	4183.4	4169.1	4156.9	4154.9
7.5°	4313.4	4291.1	4276.8	4252.4	4234.2	4220.0	4199.7	4177.2	4159.0	4142.7	4130.6
10°	4333.7	4311.4	4289.1	4258.5	4238.2	4211.8	4191.5	4163.0	4138.7	4116.4	4102.1
12.5°	4335.7	4307.3	4287.0	4252.4	4226.0	4197.6	4175.2	4142.7	4114.3	4091.9	4069.6
15°	4317.5	4291.1	4266.6	4230.1	4203.7	4177.2	4150.9	4116.4	4089.9	4063.5	4047.3
17.5°	4276.8	4252.4	4224.0	4189.5	4165.1	4140.7	4112.3	4083.8	4053.3	4024.9	4004.6
20°	4224.0	4197.6	4173.2	4138.7	4118.4	4091.9	4065.5	4035.1	4010.7	3982.2	3959.9
22.5°	4144.8	4120.4	4098.0	4077.7	4045.2	4024.9	4006.6	3972.1	3947.7	3921.3	3896.9
25°	4031.0	4006.6	3988.3	3963.9	3949.7	3927.4	3909.0	3878.6	3856.3	3831.9	3811.5
27.5°	3844.1	3829.9	3819.6	3805.4	3793.3	3783.1	3773.0	3748.6	3732.3	3710.0	3689.7
30°	3563.7	3561.7	3555.6	3549.4	3557.6	3557.6	3557.6	3553.5	3539.3	3523.0	3508.8
32.5°	3204.1	3208.2	3216.3	3222.4	3238.6	3256.9	3273.1	3281.2	3281.2	3271.1	3265.0
35°	2775.4	2781.5	2793.7	2809.9	2830.2	2852.6	2889.1	2897.3	2903.3	2903.3	2895.2
37.5°	2330.4	2328.4	2340.6	2354.8	2367.0	2383.2	2409.7	2415.8	2425.9	2421.9	2413.7
40°	1897.6	1887.5	1883.4	1887.5	1901.7	1895.6	1901.7	1897.6	1897.6	1883.4	1883.4
42.5°	1497.4	1485.2	1477.0	1471.0	1471.0	1456.7	1446.6	1436.5	1430.4	1420.2	1418.2
45°	1154.1	1139.8	1129.7	1125.6	1119.5	1101.2	1089.0	1076.8	1062.6	1058.6	1060.6
47.5°	896.0	881.8	877.7	867.6	857.4	847.2	839.1	824.9	822.8	814.7	822.8
50°	690.8	686.8	680.7	676.6	670.4	662.3	654.2	646.1	642.0	642.0	644.0
52.5°	536.4	538.4	532.3	526.2	522.2	522.2	512.0	510.0	510.0	501.9	510.0
55°	410.4	408.4	410.4	406.4	406.4	400.2	400.2	394.1	394.1	388.0	392.1
57.5°	300.7	304.7	300.7	302.7	306.8	300.7	298.6	292.5	296.6	292.5	294.6
60°	233.7	233.7	233.7	231.7	231.7	229.6	229.6	227.6	227.6	223.5	227.6
62.5°	172.7	174.7	174.7	174.7	176.8	174.7	172.7	174.7	172.7	172.7	174.7
65°	113.8	115.8	115.8	113.8	117.8	113.8	115.8	117.8	119.8	117.8	119.8
67.5°	77.2	77.2	79.3	81.3	79.3	81.3	83.3	81.3	83.3	87.4	83.3
70°	56.9	59.0	59.0	56.9	54.9	56.9	54.9	61.0	61.0	61.0	65.0
72.5°	36.5	36.5	34.5	34.5	34.5	34.5	34.5	40.6	36.5	34.5	38.6
75°	20.3	22.3	22.3	16.2	18.3	22.3	16.2	18.3	24.4	20.3	24.4
77.5°	12.2	12.2	12.2	12.2	12.2	12.2	16.2	14.2	14.2	14.2	16.2
80°	10.1	8.1	8.1	6.1	8.1	8.1	8.1	12.2	10.1	10.1	12.2
82.5°	4.1	4.1	2.0	0.0	4.1	4.1	4.1	4.1	4.1	4.1	8.1
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: P248852

CATALOG NUMBER: LD8B100D010 ER8B1009727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0
2.5°	4156.9	4156.9	4154.9	4150.9	4142.7	4142.7	4140.7	4134.6	4130.6	4128.5	4128.5
5°	4136.6	4128.5	4120.4	4098.0	4098.0	4094.0	4081.8	4073.6	4069.6	4059.4	4055.4
7.5°	4118.4	4094.0	4079.7	4065.5	4047.3	4039.1	4024.9	4018.8	4004.6	3994.4	3988.3
10°	4073.6	4057.4	4039.1	4016.8	4002.5	3986.3	3970.0	3957.9	3939.6	3929.4	3921.3
12.5°	4043.2	4018.8	4002.5	3978.1	3953.8	3939.6	3917.2	3903.0	3884.7	3864.4	3852.2
15°	4014.8	3988.3	3966.0	3939.6	3913.1	3896.9	3870.5	3854.3	3827.8	3807.5	3793.3
17.5°	3972.1	3949.7	3925.4	3892.8	3868.5	3848.2	3819.6	3799.4	3775.0	3748.6	3734.3
20°	3927.4	3900.9	3876.6	3844.1	3819.6	3795.3	3766.9	3744.6	3716.0	3691.7	3675.5
22.5°	3868.5	3838.0	3817.6	3785.1	3756.7	3730.3	3703.9	3677.5	3651.1	3630.7	3612.4
25°	3783.1	3750.6	3728.2	3701.8	3675.5	3655.2	3622.6	3606.4	3580.0	3561.7	3543.3
27.5°	3661.2	3636.8	3616.5	3590.1	3567.8	3551.5	3527.1	3510.9	3488.5	3472.3	3458.0
30°	3482.5	3462.1	3443.8	3417.4	3401.2	3387.0	3364.5	3350.3	3334.1	3315.8	3311.8
32.5°	3242.7	3226.4	3208.2	3189.8	3177.6	3169.5	3151.2	3143.1	3126.9	3116.7	3106.5
35°	2881.0	2866.8	2856.7	2848.6	2844.5	2846.5	2842.5	2850.6	2854.6	2852.6	2854.6
37.5°	2407.7	2399.5	2403.6	2409.7	2430.0	2456.4	2480.8	2517.3	2541.7	2566.1	2588.5
40°	1879.4	1885.5	1901.7	1938.3	1991.1	2050.1	2104.9	2174.0	2243.1	2291.8	2336.5
42.5°	1418.2	1436.5	1477.0	1529.9	1609.2	1696.5	1781.9	1883.4	1966.8	2048.0	2104.9
45°	1066.7	1091.0	1143.9	1217.0	1304.4	1406.0	1513.7	1627.4	1727.0	1810.3	1873.3
47.5°	831.0	853.3	906.2	983.4	1091.0	1196.7	1308.5	1426.3	1529.9	1611.2	1666.0
50°	656.2	684.7	731.4	812.7	920.4	1032.1	1148.0	1263.7	1361.3	1430.4	1479.1
52.5°	516.1	542.5	587.2	672.5	782.3	894.0	1001.6	1115.4	1200.7	1267.8	1300.3
55°	400.2	424.7	471.3	542.5	646.1	755.8	863.5	961.1	1040.3	1089.0	1119.5
57.5°	304.7	323.1	355.6	426.7	520.2	621.7	713.2	810.7	871.7	906.2	926.4
60°	231.7	245.9	280.4	335.3	420.6	508.0	585.1	658.3	707.1	735.5	755.8
62.5°	174.7	191.0	215.3	262.1	327.1	398.2	463.2	518.1	558.7	577.0	591.3
65°	119.8	132.0	150.4	186.9	241.8	292.5	343.4	384.0	410.4	430.8	438.9
67.5°	89.4	97.5	107.7	136.1	174.7	215.3	249.9	278.3	306.8	314.9	329.2
70°	67.1	73.2	83.3	103.6	125.9	154.4	182.9	199.1	219.4	233.7	237.8
72.5°	42.7	44.7	54.9	67.1	85.3	103.6	121.9	136.1	148.4	156.5	160.5
75°	24.4	36.5	36.5	48.8	61.0	69.1	81.3	91.4	97.5	103.6	103.6
77.5°	16.2	22.3	24.4	30.4	36.5	46.7	56.9	63.0	69.1	71.1	71.1
80°	14.2	16.2	16.2	22.3	26.4	34.5	40.6	42.7	46.7	48.8	52.9
82.5°	6.1	8.1	10.1	16.2	18.3	18.3	24.4	26.4	30.4	32.5	32.5
85°	2.0	4.1	4.1	6.1	10.1	12.2	14.2	16.2	18.3	18.3	20.3
87.5°	2.0	2.0	0.0	2.0	4.1	4.1	8.1	8.1	8.1	12.2	12.2
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: P248852

CATALOG NUMBER: LD8B100D010 ER8B1009727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0
2.5°	4124.5	4126.5	4118.4	4116.4	4112.3	4114.3	4118.4
5°	4049.3	4051.3	4043.2	4035.1	4035.1	4033.0	4035.1
7.5°	3978.1	3980.2	3968.0	3963.9	3955.8	3957.9	3957.9
10°	3907.0	3907.0	3888.8	3886.7	3880.6	3878.6	3878.6
12.5°	3838.0	3831.9	3817.6	3809.5	3813.6	3801.4	3801.4
15°	3777.0	3766.9	3748.6	3742.5	3732.3	3728.2	3728.2
17.5°	3714.0	3705.9	3689.7	3677.5	3665.3	3663.3	3665.3
20°	3653.1	3644.9	3624.6	3616.5	3606.4	3606.4	3602.3
22.5°	3592.1	3584.0	3565.8	3559.6	3545.4	3545.4	3547.4
25°	3529.1	3523.0	3502.7	3498.7	3496.7	3488.5	3492.6
27.5°	3443.8	3439.7	3423.5	3417.4	3409.3	3407.3	3411.3
30°	3287.4	3281.2	3269.1	3263.0	3248.8	3250.8	3254.8
32.5°	3092.3	3084.2	3067.9	3061.8	3049.7	3045.6	3047.6
35°	2848.6	2842.5	2828.2	2828.2	2816.0	2811.9	2816.0
37.5°	2600.7	2606.7	2600.7	2606.7	2600.7	2598.6	2600.7
40°	2367.0	2389.4	2393.4	2415.8	2407.7	2419.8	2417.8
42.5°	2143.5	2180.0	2194.3	2212.6	2208.5	2216.7	2222.8
45°	1917.9	1948.5	1962.7	1974.9	1976.9	1981.0	1983.0
47.5°	1704.6	1729.0	1731.0	1745.2	1743.2	1743.2	1749.3
50°	1505.6	1521.8	1525.8	1536.0	1527.9	1523.8	1525.8
52.5°	1320.7	1336.9	1332.8	1336.9	1326.8	1322.7	1324.7
55°	1131.7	1139.8	1139.8	1139.8	1127.6	1127.6	1127.6
57.5°	938.6	940.7	936.6	938.6	936.6	924.4	922.4
60°	761.9	761.9	759.8	761.9	755.8	749.7	749.7
62.5°	595.3	599.4	607.5	599.4	595.3	599.4	593.3
65°	445.0	453.1	451.0	455.1	453.1	453.1	449.0
67.5°	335.3	337.3	339.3	341.4	341.4	341.4	341.4
70°	245.9	252.0	249.9	249.9	249.9	249.9	262.1
72.5°	164.6	172.7	170.7	174.7	174.7	178.8	174.7
75°	111.7	119.8	115.8	121.9	119.8	115.8	125.9
77.5°	75.2	79.3	81.3	83.3	81.3	79.3	81.3
80°	52.9	56.9	54.9	56.9	56.9	56.9	59.0
82.5°	32.5	38.6	36.5	38.6	36.5	38.6	38.6
85°	22.3	24.4	20.3	24.4	22.3	22.3	26.4
87.5°	14.2	12.2	12.2	14.2	12.2	14.2	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)