

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: P248832

Luminaire Tested: **LD8B80D010 ER8B80940 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248832
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 ER8B80940 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6900.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

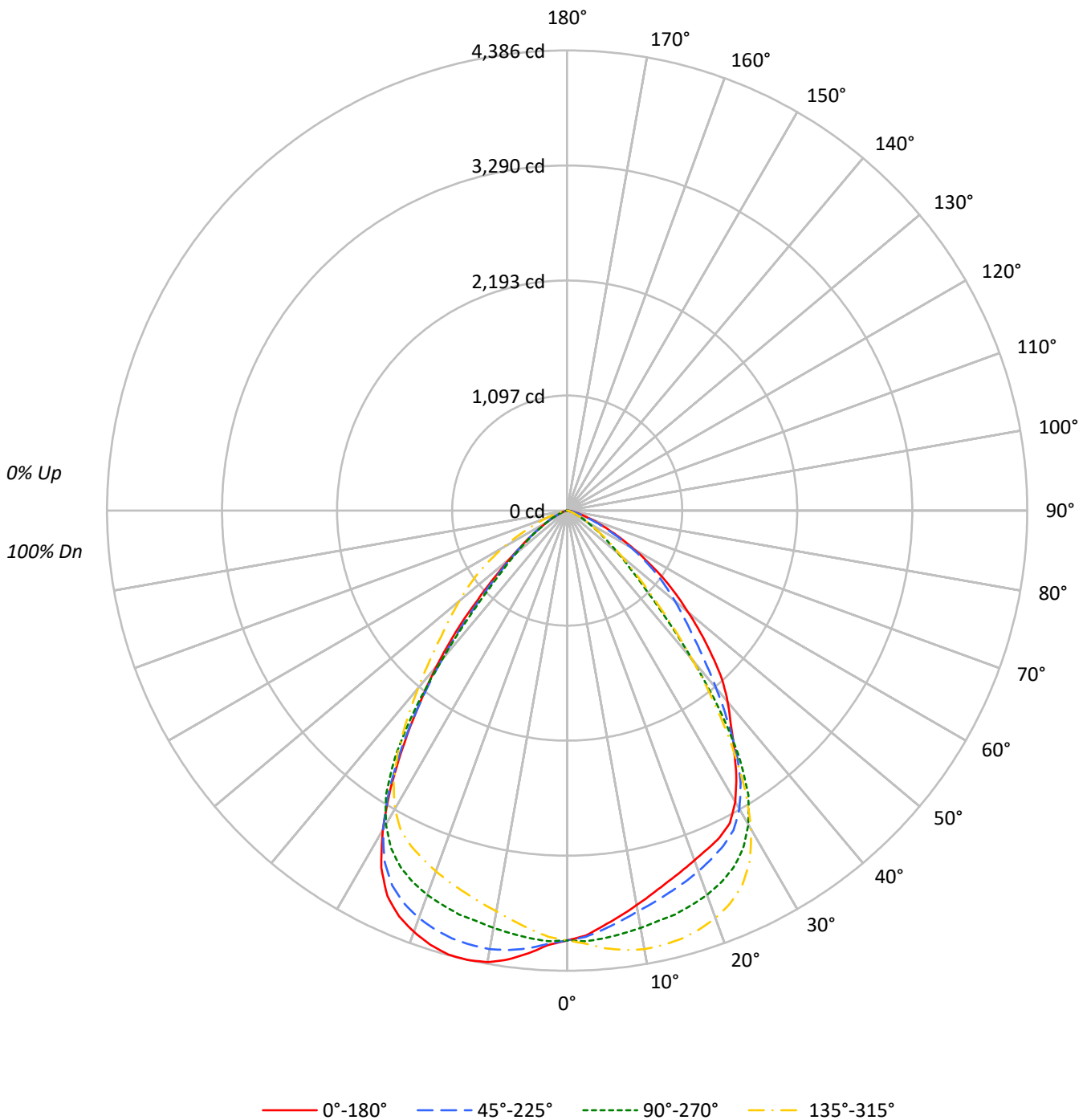
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	126315	126315	126315	126315
5°	122959	126612	131134	126612
10°	119559	126447	136843	126447
15°	117171	127195	139837	127195
20°	116373	127924	140197	127924
25°	116985	127669	137944	127669
30°	114091	122993	125204	122993
35°	104357	107293	101797	107293
40°	95812	74635	77940	74635
45°	85134	45532	52684	45532
50°	72060	30415	33778	30415
55°	59681	20752	21935	20752
60°	45521	13815	13938	13815
65°	32251	8610	7880	8610
70°	23261	5770	5229	5770
75°	14774	2859	2383	2859
80°	10300	2131	1776	2131
85°	9199	0	708	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.9	5.7
10°-20°	1129.1	16.4
20°-30°	1709.6	24.8
30°-40°	1713.5	24.8
40°-50°	1076.0	15.6
50°-60°	573.4	8.3
60°-70°	235.8	3.4
70°-80°	62.3	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°	3228.6	46.8
0°-40°	4942.0	71.6
0°-60°	6591.4	95.5
0°-90°	6900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6900.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4096	4096	4096	4096	4096	
5°	3972	4090	4236	4090	3972	375
15°	3670	3984	4380	3984	3670	1038
25°	3438	3752	4054	3752	3438	1577
35°	2772	2850	2704	2850	2772	1737
45°	1952	1044	1208	1044	1952	1501
55°	1110	386	408	386	1110	990
65°	442	118	108	118	442	459
75°	124	24	20	24	124	140
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°	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3
2.5°	4054.3	4050.3	4048.3	4052.3	4054.3	4062.3	4060.3	4064.3	4064.3	4066.3	4070.3
5°	3972.3	3970.3	3972.3	3972.3	3980.3	3988.3	3986.3	3992.3	3996.3	4006.3	4010.3
7.5°	3896.3	3896.3	3894.3	3902.3	3906.3	3918.3	3916.3	3926.3	3932.3	3942.3	3956.3
10°	3818.3	3818.3	3820.3	3826.3	3828.3	3846.3	3846.3	3860.3	3868.3	3878.3	3896.3
12.5°	3742.3	3742.3	3754.3	3750.3	3758.3	3772.3	3778.3	3792.3	3804.3	3824.3	3842.3
15°	3670.3	3670.3	3674.3	3684.3	3690.3	3708.3	3718.3	3734.3	3748.3	3768.3	3794.3
17.5°	3608.3	3606.3	3608.3	3620.3	3632.3	3648.3	3656.3	3676.3	3690.3	3716.3	3740.3
20°	3546.3	3550.3	3550.3	3560.3	3568.3	3588.3	3596.3	3618.3	3634.3	3658.2	3686.3
22.5°	3492.3	3490.3	3490.3	3504.3	3510.3	3528.2	3536.2	3556.2	3574.3	3594.3	3620.3
25°	3438.3	3434.2	3442.3	3444.3	3448.2	3468.2	3474.2	3488.2	3506.3	3524.3	3550.3
27.5°	3358.2	3354.3	3356.3	3364.3	3370.3	3386.2	3390.3	3404.3	3418.3	3434.2	3456.3
30°	3204.2	3200.3	3198.3	3212.3	3218.3	3230.2	3236.2	3260.3	3264.2	3282.3	3298.2
32.5°	3000.2	2998.2	3002.3	3014.2	3020.2	3036.3	3044.2	3058.2	3068.2	3078.2	3094.2
35°	2772.2	2768.2	2772.2	2784.3	2784.3	2798.2	2804.3	2810.2	2808.2	2810.2	2806.2
37.5°	2560.2	2558.2	2560.2	2566.2	2560.2	2566.2	2560.2	2548.2	2526.2	2502.2	2478.2
40°	2380.2	2382.2	2370.2	2378.2	2356.1	2352.2	2330.2	2300.2	2256.2	2208.2	2140.2
42.5°	2188.2	2182.2	2174.2	2178.2	2160.2	2146.1	2110.1	2072.2	2016.1	1936.2	1854.1
45°	1952.2	1950.2	1946.2	1944.2	1932.2	1918.2	1888.1	1844.1	1782.2	1700.2	1602.1
47.5°	1722.1	1716.1	1716.1	1718.1	1704.1	1702.1	1678.1	1640.1	1586.1	1506.1	1404.1
50°	1502.1	1500.1	1504.1	1512.1	1502.1	1498.1	1482.2	1456.1	1408.1	1340.1	1244.1
52.5°	1304.1	1302.1	1306.1	1316.1	1312.1	1316.1	1300.1	1280.1	1248.1	1182.1	1098.1
55°	1110.1	1110.1	1110.1	1122.0	1122.0	1122.0	1114.1	1102.1	1072.1	1024.1	946.1
57.5°	908.1	910.1	922.1	924.0	922.1	926.1	924.0	912.0	892.1	858.1	798.1
60°	738.1	738.1	744.1	750.1	748.0	750.1	750.1	744.1	724.1	696.1	648.1
62.5°	584.0	590.0	586.0	590.0	598.0	590.0	586.0	582.1	568.1	550.0	510.0
65°	442.0	446.1	446.1	448.0	444.0	446.1	438.1	432.1	424.1	404.1	378.1
67.5°	336.1	336.1	336.1	336.1	334.0	332.0	330.1	324.0	310.0	302.1	274.0
70°	258.0	246.0	246.0	246.0	246.0	248.1	242.0	234.1	230.0	216.0	196.0
72.5°	172.0	176.0	172.0	172.0	168.0	170.0	162.0	158.0	154.0	146.0	134.0
75°	124.0	114.0	118.0	120.0	114.0	118.0	110.0	102.0	102.0	96.0	90.0
77.5°	80.0	78.0	80.0	82.0	80.0	78.0	74.0	70.0	70.0	68.0	62.0
80°	58.0	56.0	56.0	56.0	54.0	56.0	52.0	52.0	48.0	46.0	42.0
82.5°	38.0	38.0	36.0	38.0	36.0	38.0	32.0	32.0	32.0	30.0	26.0
85°	26.0	22.0	22.0	24.0	20.0	24.0	22.0	20.0	18.0	18.0	16.0
87.5°	12.0	14.0	12.0	14.0	12.0	12.0	14.0	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3
2.5°	4076.3	4078.3	4078.3	4086.3	4090.3	4092.3	4092.3	4108.3	4102.3	4106.4	4110.3
5°	4018.3	4030.3	4034.3	4034.3	4056.3	4064.3	4072.3	4090.3	4092.3	4104.3	4118.3
7.5°	3962.3	3976.3	3984.3	4002.3	4016.3	4030.3	4054.3	4066.3	4078.3	4094.3	4112.3
10°	3908.3	3924.3	3940.3	3954.3	3976.3	3994.3	4010.3	4038.3	4052.3	4074.3	4098.3
12.5°	3856.3	3878.3	3892.3	3916.3	3940.3	3956.3	3980.3	4006.3	4028.3	4050.3	4078.3
15°	3810.3	3836.3	3852.3	3878.3	3904.3	3926.3	3952.3	3984.3	4000.3	4026.3	4052.3
17.5°	3760.2	3788.3	3808.3	3832.3	3864.3	3888.3	3910.3	3942.3	3962.3	3990.3	4020.3
20°	3708.3	3736.3	3760.2	3784.3	3816.3	3840.3	3866.3	3898.3	3920.3	3948.3	3972.3
22.5°	3646.3	3672.3	3698.3	3726.2	3758.3	3778.3	3808.3	3836.3	3860.3	3886.3	3910.3
25°	3566.3	3598.3	3618.3	3644.2	3670.3	3692.2	3724.3	3752.3	3772.3	3796.3	3818.3
27.5°	3472.3	3496.3	3512.3	3534.3	3560.3	3580.3	3604.2	3632.3	3652.3	3674.3	3690.3
30°	3312.2	3334.3	3348.3	3364.3	3390.3	3408.3	3428.3	3454.2	3468.2	3484.3	3498.3
32.5°	3102.2	3120.2	3128.2	3140.2	3158.3	3176.2	3192.3	3214.2	3220.3	3230.2	3230.2
35°	2798.2	2802.2	2800.2	2804.3	2812.2	2822.2	2836.2	2850.2	2858.2	2858.2	2852.3
37.5°	2442.2	2418.2	2392.2	2372.2	2366.2	2362.2	2370.2	2376.2	2384.2	2388.2	2378.2
40°	2072.2	2018.2	1960.1	1908.1	1872.1	1856.2	1850.2	1854.1	1854.1	1868.1	1868.1
42.5°	1754.2	1670.1	1584.2	1506.1	1454.1	1414.1	1396.1	1396.1	1398.1	1408.1	1414.1
45°	1490.1	1384.1	1284.1	1198.1	1126.1	1074.1	1050.1	1044.1	1042.1	1046.1	1060.1
47.5°	1288.1	1178.1	1074.1	968.1	892.1	840.1	818.1	810.0	802.0	810.0	812.1
50°	1130.1	1016.1	906.1	800.1	720.0	674.0	646.0	634.0	632.0	632.0	636.1
52.5°	986.0	880.1	770.1	662.1	578.0	534.1	508.0	502.0	494.1	502.0	502.0
55°	850.0	744.1	636.1	534.1	464.0	418.1	394.0	386.0	382.0	388.0	388.0
57.5°	702.1	612.0	512.1	420.0	350.1	318.0	300.0	290.0	288.0	292.0	288.0
60°	576.0	500.1	414.0	330.1	276.0	242.0	228.0	224.0	220.0	224.0	224.0
62.5°	456.0	392.0	322.0	258.0	212.0	188.0	172.0	172.0	170.0	170.0	172.0
65°	338.0	288.0	238.0	184.0	148.0	130.0	118.0	118.0	116.0	118.0	116.0
67.5°	246.0	212.0	172.0	134.0	106.0	96.0	88.0	82.0	86.0	82.0	80.0
70°	180.1	152.0	124.0	102.0	82.0	72.0	66.0	64.0	60.0	60.0	60.0
72.5°	120.0	102.0	84.0	66.0	54.0	44.0	42.0	38.0	34.0	36.0	40.0
75°	80.0	68.0	60.0	48.0	36.0	36.0	24.0	24.0	20.0	24.0	18.0
77.5°	56.0	46.0	36.0	30.0	24.0	22.0	16.0	16.0	14.0	14.0	14.0
80°	40.0	34.0	26.0	22.0	16.0	16.0	14.0	12.0	10.0	10.0	12.0
82.5°	24.0	18.0	18.0	16.0	10.0	8.0	6.0	8.0	4.0	4.0	4.0
85°	14.0	12.0	10.0	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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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3
2.5°	4120.4	4118.3	4122.3	4122.3	4134.3	4132.3	4138.3	4138.3	4134.3	4136.3	4144.3
5°	4134.3	4140.4	4152.3	4162.3	4180.3	4188.4	4198.3	4208.4	4210.3	4216.3	4222.4
7.5°	4134.3	4154.4	4168.3	4186.3	4210.3	4224.3	4246.3	4264.3	4272.3	4282.3	4294.3
10°	4126.3	4146.3	4172.3	4192.3	4222.4	4244.3	4266.3	4294.3	4306.3	4322.3	4338.4
12.5°	4110.3	4132.3	4160.3	4186.3	4220.3	4240.3	4268.3	4294.3	4312.3	4334.3	4352.4
15°	4086.3	4112.3	4138.3	4164.3	4200.3	4224.3	4250.3	4280.3	4298.3	4322.3	4338.4
17.5°	4048.3	4076.3	4100.3	4124.3	4158.3	4186.3	4210.3	4238.3	4256.4	4276.4	4298.3
20°	4002.3	4028.3	4054.3	4074.3	4108.3	4132.3	4158.3	4184.3	4198.3	4202.3	4236.4
22.5°	3944.3	3962.3	3982.3	4014.3	4034.3	4056.3	4080.3	4104.3	4118.3	4140.4	4152.3
25°	3848.3	3866.3	3888.3	3902.3	3926.3	3944.3	3968.3	3994.3	4002.3	4018.3	4030.3
27.5°	3714.3	3724.3	3734.3	3746.3	3760.2	3770.3	3784.3	3796.3	3804.3	3812.3	3820.3
30°	3502.2	3502.2	3502.2	3494.2	3500.3	3506.3	3508.2	3506.3	3506.3	3504.3	3504.3
32.5°	3222.2	3206.3	3188.2	3172.3	3166.3	3158.3	3154.2	3148.2	3138.3	3132.3	3134.2
35°	2844.2	2808.2	2786.2	2766.2	2750.2	2738.2	2732.2	2726.2	2724.2	2716.2	2708.2
37.5°	2372.2	2346.2	2330.2	2318.2	2304.2	2292.2	2294.2	2296.2	2302.1	2298.2	2300.2
40°	1872.1	1866.1	1872.1	1858.1	1854.1	1858.1	1868.1	1882.2	1890.2	1898.2	1912.1
42.5°	1424.1	1434.1	1448.1	1448.1	1454.1	1462.1	1474.1	1496.1	1508.1	1522.1	1538.1
45°	1072.1	1084.1	1102.1	1108.1	1112.1	1122.0	1136.1	1154.1	1162.1	1174.1	1188.1
47.5°	826.1	834.1	844.0	854.1	864.0	868.1	882.1	882.1	892.1	900.1	904.0
50°	644.1	652.0	660.0	666.0	670.1	676.1	680.0	686.0	688.0	692.0	694.0
52.5°	504.0	514.1	514.1	518.0	524.0	530.0	528.1	530.0	532.0	532.0	538.0
55°	394.0	394.0	400.0	400.0	404.1	402.0	404.1	404.1	404.1	404.1	406.0
57.5°	294.0	296.1	302.1	298.0	296.1	300.0	296.1	300.0	298.0	302.1	296.1
60°	226.0	226.0	228.0	228.0	230.0	230.0	230.0	228.0	228.0	226.0	226.0
62.5°	170.0	172.0	174.0	172.0	172.0	172.0	170.0	170.0	168.0	166.0	166.0
65°	114.0	112.0	116.0	112.0	114.0	114.0	112.0	114.0	108.0	110.0	108.0
67.5°	82.0	80.0	78.0	80.0	78.0	76.0	76.0	78.0	80.0	74.0	74.0
70°	54.0	56.0	54.0	56.0	58.0	58.0	56.0	54.0	56.0	52.0	54.0
72.5°	34.0	34.0	34.0	34.0	34.0	36.0	36.0	36.0	32.0	32.0	30.0
75°	16.0	22.0	18.0	16.0	22.0	22.0	20.0	20.0	18.0	18.0	18.0
77.5°	16.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	10.0	12.0	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°	4.0	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: P248832

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3
2.5°	4142.3	4140.4	4142.3	4144.3	4142.3	4140.4	4142.3	4144.3	4136.3	4134.3	4138.3
5°	4230.3	4230.3	4234.3	4236.4	4234.3	4230.3	4230.3	4222.4	4216.3	4210.3	4208.4
7.5°	4306.3	4310.4	4314.3	4316.3	4314.3	4310.4	4306.3	4294.3	4282.3	4272.3	4264.3
10°	4352.4	4358.4	4366.3	4370.3	4366.3	4358.4	4352.4	4338.4	4322.3	4306.3	4294.3
12.5°	4372.4	4378.4	4388.3	4386.4	4388.3	4378.4	4372.4	4352.4	4334.3	4312.3	4294.3
15°	4358.4	4366.3	4376.3	4380.3	4376.3	4366.3	4358.4	4338.4	4322.3	4298.3	4280.3
17.5°	4314.3	4326.3	4332.3	4338.4	4332.3	4326.3	4314.3	4298.3	4276.4	4256.4	4238.3
20°	4254.3	4262.4	4270.4	4272.3	4270.4	4262.4	4254.3	4236.4	4202.3	4198.3	4184.3
22.5°	4168.3	4174.4	4192.3	4186.3	4192.3	4174.4	4168.3	4152.3	4140.4	4118.3	4104.3
25°	4044.3	4050.3	4052.3	4054.3	4052.3	4050.3	4044.3	4030.3	4018.3	4002.3	3994.3
27.5°	3830.3	3830.3	3834.3	3836.3	3834.3	3830.3	3830.3	3820.3	3812.3	3804.3	3796.3
30°	3506.3	3506.3	3506.3	3516.3	3506.3	3506.3	3506.3	3504.3	3504.3	3506.3	3506.3
32.5°	3132.3	3128.2	3124.3	3128.2	3124.3	3128.2	3132.3	3134.2	3132.3	3138.3	3148.2
35°	2708.2	2706.2	2712.2	2704.2	2712.2	2706.2	2708.2	2708.2	2716.2	2724.2	2726.2
37.5°	2302.1	2298.2	2306.2	2298.2	2306.2	2298.2	2302.1	2300.2	2298.2	2302.1	2296.2
40°	1916.2	1920.1	1920.1	1936.2	1920.1	1920.1	1916.2	1912.1	1898.2	1890.2	1882.2
42.5°	1546.1	1558.1	1554.1	1566.1	1554.1	1558.1	1546.1	1538.1	1522.1	1508.1	1496.1
45°	1196.1	1204.1	1204.1	1208.1	1204.1	1204.1	1196.1	1188.1	1174.1	1162.1	1154.1
47.5°	918.0	918.0	918.0	920.1	918.0	918.0	918.0	904.0	900.1	892.1	882.1
50°	698.1	700.0	702.1	704.1	702.1	700.0	698.1	694.0	692.0	688.0	686.0
52.5°	536.0	538.0	534.1	538.0	534.1	538.0	536.0	538.0	532.0	532.0	530.0
55°	406.0	404.1	406.0	408.0	406.0	404.1	406.0	406.0	404.1	404.1	404.1
57.5°	298.0	294.0	294.0	294.0	294.0	294.0	298.0	296.1	302.1	298.0	300.0
60°	222.0	224.0	224.0	226.0	224.0	224.0	222.0	226.0	226.0	228.0	228.0
62.5°	164.0	170.0	166.0	170.0	166.0	170.0	164.0	166.0	166.0	168.0	170.0
65°	106.0	106.0	106.0	108.0	106.0	106.0	106.0	108.0	110.0	108.0	114.0
67.5°	72.0	74.0	78.0	76.0	78.0	74.0	72.0	74.0	74.0	80.0	78.0
70°	58.0	52.0	52.0	58.0	52.0	52.0	58.0	54.0	52.0	56.0	54.0
72.5°	34.0	30.0	34.0	34.0	34.0	30.0	34.0	30.0	32.0	32.0	36.0
75°	18.0	16.0	14.0	20.0	14.0	16.0	18.0	18.0	18.0	18.0	20.0
77.5°	12.0	10.0	14.0	14.0	14.0	10.0	12.0	10.0	12.0	10.0	12.0
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	4.0	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: P248832

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3
2.5°	4138.3	4132.3	4134.3	4122.3	4122.3	4118.3	4120.4	4110.3	4106.4	4102.3	4108.3
5°	4198.3	4188.4	4180.3	4162.3	4152.3	4140.4	4134.3	4118.3	4104.3	4092.3	4090.3
7.5°	4246.3	4224.3	4210.3	4186.3	4168.3	4154.4	4134.3	4112.3	4094.3	4078.3	4066.3
10°	4266.3	4244.3	4222.4	4192.3	4172.3	4146.3	4126.3	4098.3	4074.3	4052.3	4038.3
12.5°	4268.3	4240.3	4220.3	4186.3	4160.3	4132.3	4110.3	4078.3	4050.3	4028.3	4006.3
15°	4250.3	4224.3	4200.3	4164.3	4138.3	4112.3	4086.3	4052.3	4026.3	4000.3	3984.3
17.5°	4210.3	4186.3	4158.3	4124.3	4100.3	4076.3	4048.3	4020.3	3990.3	3962.3	3942.3
20°	4158.3	4132.3	4108.3	4074.3	4054.3	4028.3	4002.3	3972.3	3948.3	3920.3	3898.3
22.5°	4080.3	4056.3	4034.3	4014.3	3982.3	3962.3	3944.3	3910.3	3886.3	3860.3	3836.3
25°	3968.3	3944.3	3926.3	3902.3	3888.3	3866.3	3848.3	3818.3	3796.3	3772.3	3752.3
27.5°	3784.3	3770.3	3760.2	3746.3	3734.3	3724.3	3714.3	3690.3	3674.3	3652.3	3632.3
30°	3508.2	3506.3	3500.3	3494.2	3502.2	3502.2	3502.2	3498.3	3484.3	3468.2	3454.2
32.5°	3154.2	3158.3	3166.3	3172.3	3188.2	3206.3	3222.2	3230.2	3230.2	3220.3	3214.2
35°	2732.2	2738.2	2750.2	2766.2	2786.2	2808.2	2844.2	2852.3	2858.2	2858.2	2850.2
37.5°	2294.2	2292.2	2304.2	2318.2	2330.2	2346.2	2372.2	2378.2	2388.2	2384.2	2376.2
40°	1868.1	1858.1	1854.1	1858.1	1872.1	1866.1	1872.1	1868.1	1868.1	1854.1	1854.1
42.5°	1474.1	1462.1	1454.1	1448.1	1448.1	1434.1	1424.1	1414.1	1408.1	1398.1	1396.1
45°	1136.1	1122.0	1112.1	1108.1	1102.1	1084.1	1072.1	1060.1	1046.1	1042.1	1044.1
47.5°	882.1	868.1	864.0	854.1	844.0	834.1	826.1	812.1	810.0	802.0	810.0
50°	680.0	676.1	670.1	666.0	660.0	652.0	644.1	636.1	632.0	632.0	634.0
52.5°	528.1	530.0	524.0	518.0	514.1	514.1	504.0	502.0	502.0	494.1	502.0
55°	404.1	402.0	404.1	400.0	400.0	394.0	394.0	388.0	388.0	382.0	386.0
57.5°	296.1	300.0	296.1	298.0	302.1	296.1	294.0	288.0	292.0	288.0	290.0
60°	230.0	230.0	230.0	228.0	228.0	226.0	226.0	224.0	224.0	220.0	224.0
62.5°	170.0	172.0	172.0	172.0	174.0	172.0	170.0	172.0	170.0	170.0	172.0
65°	112.0	114.0	114.0	112.0	116.0	112.0	114.0	116.0	118.0	116.0	118.0
67.5°	76.0	76.0	78.0	80.0	78.0	80.0	82.0	80.0	82.0	86.0	82.0
70°	56.0	58.0	58.0	56.0	54.0	56.0	54.0	60.0	60.0	60.0	64.0
72.5°	36.0	36.0	34.0	34.0	34.0	34.0	34.0	40.0	36.0	34.0	38.0
75°	20.0	22.0	22.0	16.0	18.0	22.0	16.0	18.0	24.0	20.0	24.0
77.5°	12.0	12.0	12.0	12.0	12.0	12.0	16.0	14.0	14.0	14.0	16.0
80°	10.0	8.0	8.0	6.0	8.0	8.0	8.0	12.0	10.0	10.0	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: P248832

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3
2.5°	4092.3	4092.3	4090.3	4086.3	4078.3	4078.3	4076.3	4070.3	4066.3	4064.3	4064.3
5°	4072.3	4064.3	4056.3	4034.3	4034.3	4030.3	4018.3	4010.3	4006.3	3996.3	3992.3
7.5°	4054.3	4030.3	4016.3	4002.3	3984.3	3976.3	3962.3	3956.3	3942.3	3932.3	3926.3
10°	4010.3	3994.3	3976.3	3954.3	3940.3	3924.3	3908.3	3896.3	3878.3	3868.3	3860.3
12.5°	3980.3	3956.3	3940.3	3916.3	3892.3	3878.3	3856.3	3842.3	3824.3	3804.3	3792.3
15°	3952.3	3926.3	3904.3	3878.3	3852.3	3836.3	3810.3	3794.3	3768.3	3748.3	3734.3
17.5°	3910.3	3888.3	3864.3	3832.3	3808.3	3788.3	3760.2	3740.3	3716.3	3690.3	3676.3
20°	3866.3	3840.3	3816.3	3784.3	3760.2	3736.3	3708.3	3686.3	3658.2	3634.3	3618.3
22.5°	3808.3	3778.3	3758.3	3726.2	3698.3	3672.3	3646.3	3620.3	3594.3	3574.3	3556.2
25°	3724.3	3692.2	3670.3	3644.2	3618.3	3598.3	3566.3	3550.3	3524.3	3506.3	3488.2
27.5°	3604.2	3580.3	3560.3	3534.3	3512.3	3496.3	3472.3	3456.3	3434.2	3418.3	3404.3
30°	3428.3	3408.3	3390.3	3364.3	3348.3	3334.3	3312.2	3298.2	3282.3	3264.2	3260.3
32.5°	3192.3	3176.2	3158.3	3140.2	3128.2	3120.2	3102.2	3094.2	3078.2	3068.2	3058.2
35°	2836.2	2822.2	2812.2	2804.3	2800.2	2802.2	2798.2	2806.2	2810.2	2808.2	2810.2
37.5°	2370.2	2362.2	2366.2	2372.2	2392.2	2418.2	2442.2	2478.2	2502.2	2526.2	2548.2
40°	1850.2	1856.2	1872.1	1908.1	1960.1	2018.2	2072.2	2140.2	2208.2	2256.2	2300.2
42.5°	1396.1	1414.1	1454.1	1506.1	1584.2	1670.1	1754.2	1854.1	1936.2	2016.1	2072.2
45°	1050.1	1074.1	1126.1	1198.1	1284.1	1384.1	1490.1	1602.1	1700.2	1782.2	1844.1
47.5°	818.1	840.1	892.1	968.1	1074.1	1178.1	1288.1	1404.1	1506.1	1586.1	1640.1
50°	646.0	674.0	720.0	800.1	906.1	1016.1	1130.1	1244.1	1340.1	1408.1	1456.1
52.5°	508.0	534.1	578.0	662.1	770.1	880.1	986.0	1098.1	1182.1	1248.1	1280.1
55°	394.0	418.1	464.0	534.1	636.1	744.1	850.0	946.1	1024.1	1072.1	1102.1
57.5°	300.0	318.0	350.1	420.0	512.1	612.0	702.1	798.1	858.1	892.1	912.0
60°	228.0	242.0	276.0	330.1	414.0	500.1	576.0	648.1	696.1	724.1	744.1
62.5°	172.0	188.0	212.0	258.0	322.0	392.0	456.0	510.0	550.0	568.1	582.1
65°	118.0	130.0	148.0	184.0	238.0	288.0	338.0	378.1	404.1	424.1	432.1
67.5°	88.0	96.0	106.0	134.0	172.0	212.0	246.0	274.0	302.1	310.0	324.0
70°	66.0	72.0	82.0	102.0	124.0	152.0	180.1	196.0	216.0	230.0	234.1
72.5°	42.0	44.0	54.0	66.0	84.0	102.0	120.0	134.0	146.0	154.0	158.0
75°	24.0	36.0	36.0	48.0	60.0	68.0	80.0	90.0	96.0	102.0	102.0
77.5°	16.0	22.0	24.0	30.0	36.0	46.0	56.0	62.0	68.0	70.0	70.0
80°	14.0	16.0	16.0	22.0	26.0	34.0	40.0	42.0	46.0	48.0	52.0
82.5°	6.0	8.0	10.0	16.0	18.0	18.0	24.0	26.0	30.0	32.0	32.0
85°	2.0	4.0	4.0	6.0	10.0	12.0	14.0	16.0	18.0	18.0	20.0
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: P248832

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3
2.5°	4060.3	4062.3	4054.3	4052.3	4048.3	4050.3	4054.3
5°	3986.3	3988.3	3980.3	3972.3	3972.3	3970.3	3972.3
7.5°	3916.3	3918.3	3906.3	3902.3	3894.3	3896.3	3896.3
10°	3846.3	3846.3	3828.3	3826.3	3820.3	3818.3	3818.3
12.5°	3778.3	3772.3	3758.3	3750.3	3754.3	3742.3	3742.3
15°	3718.3	3708.3	3690.3	3684.3	3674.3	3670.3	3670.3
17.5°	3656.3	3648.3	3632.3	3620.3	3608.3	3606.3	3608.3
20°	3596.3	3588.3	3568.3	3560.3	3550.3	3550.3	3546.3
22.5°	3536.2	3528.2	3510.3	3504.3	3490.3	3490.3	3492.3
25°	3474.2	3468.2	3448.2	3444.3	3442.3	3434.2	3438.3
27.5°	3390.3	3386.2	3370.3	3364.3	3356.3	3354.3	3358.2
30°	3236.2	3230.2	3218.3	3212.3	3198.3	3200.3	3204.2
32.5°	3044.2	3036.3	3020.2	3014.2	3002.3	2998.2	3000.2
35°	2804.3	2798.2	2784.3	2784.3	2772.2	2768.2	2772.2
37.5°	2560.2	2566.2	2560.2	2566.2	2560.2	2558.2	2560.2
40°	2330.2	2352.2	2356.1	2378.2	2370.2	2382.2	2380.2
42.5°	2110.1	2146.1	2160.2	2178.2	2174.2	2182.2	2188.2
45°	1888.1	1918.2	1932.2	1944.2	1946.2	1950.2	1952.2
47.5°	1678.1	1702.1	1704.1	1718.1	1716.1	1716.1	1722.1
50°	1482.2	1498.1	1502.1	1512.1	1504.1	1500.1	1502.1
52.5°	1300.1	1316.1	1312.1	1316.1	1306.1	1302.1	1304.1
55°	1114.1	1122.0	1122.0	1122.0	1110.1	1110.1	1110.1
57.5°	924.0	926.1	922.1	924.0	922.1	910.1	908.1
60°	750.1	750.1	748.0	750.1	744.1	738.1	738.1
62.5°	586.0	590.0	598.0	590.0	586.0	590.0	584.0
65°	438.1	446.1	444.0	448.0	446.1	446.1	442.0
67.5°	330.1	332.0	334.0	336.1	336.1	336.1	336.1
70°	242.0	248.1	246.0	246.0	246.0	246.0	258.0
72.5°	162.0	170.0	168.0	172.0	172.0	176.0	172.0
75°	110.0	118.0	114.0	120.0	118.0	114.0	124.0
77.5°	74.0	78.0	80.0	82.0	80.0	78.0	80.0
80°	52.0	56.0	54.0	56.0	56.0	56.0	58.0
82.5°	32.0	38.0	36.0	38.0	36.0	38.0	38.0
85°	22.0	24.0	20.0	24.0	22.0	22.0	26.0
87.5°	14.0	12.0	12.0	14.0	12.0	14.0	12.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)