

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: P248895

Luminaire Tested: **LD8B80D010 ER8B80840 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248895
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 ER8B80840 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6354.0 lumens
Efficiency: N/A
Efficacy: 85.4 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

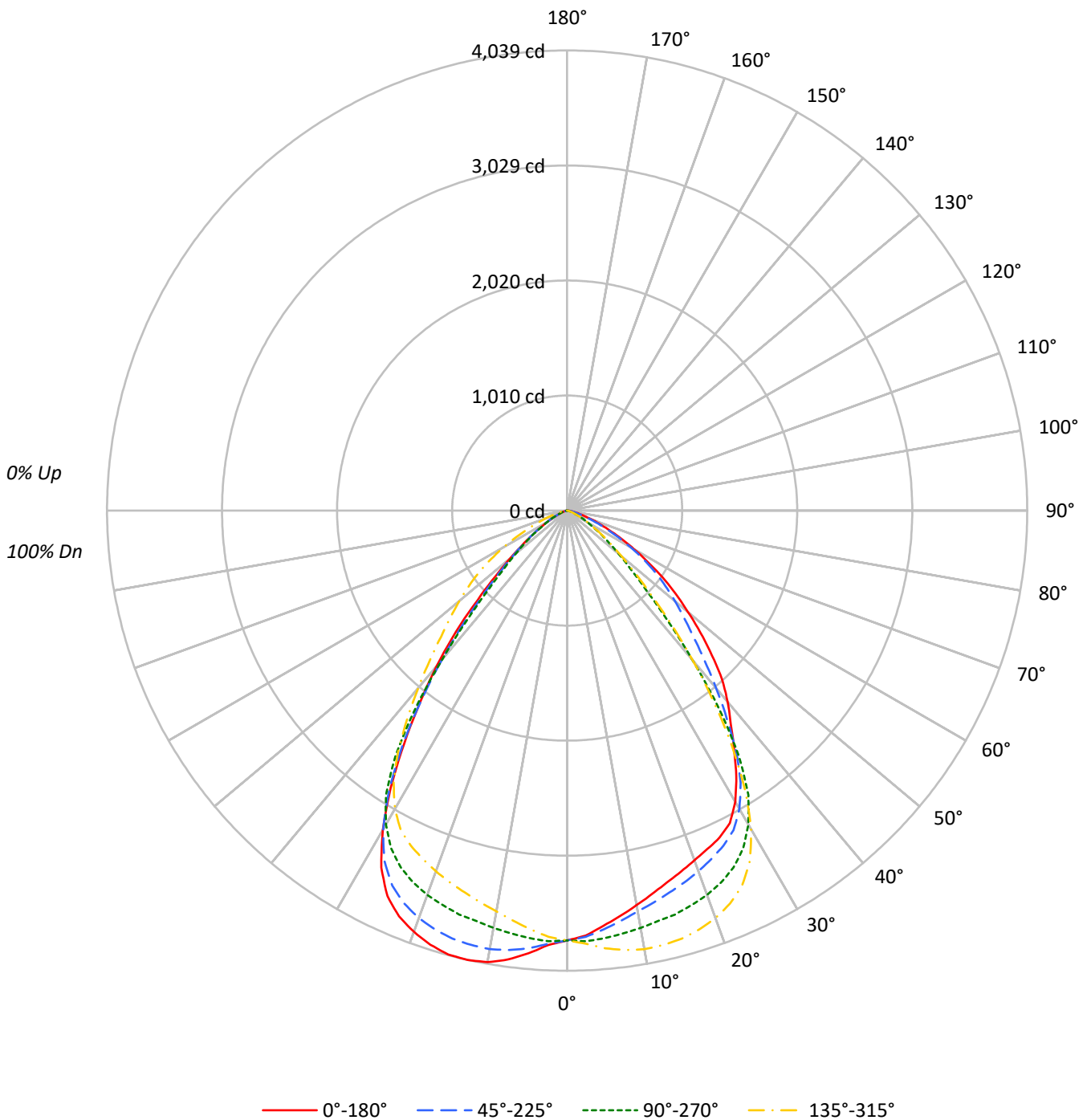
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	116321	116321	116321	116321
5°	113230	116592	120755	116592
10°	110096	116440	126015	116440
15°	107897	117133	128772	117133
20°	107165	117800	129105	117800
25°	107727	117564	127029	117564
30°	105065	113261	115298	113261
35°	96102	98805	93742	98805
40°	88229	68730	71773	68730
45°	78396	41930	48515	41930
50°	66356	28007	31106	28007
55°	54960	19112	20198	19112
60°	41919	12723	12834	12723
65°	29697	7924	7260	7924
70°	21422	5310	4815	5310
75°	13606	2633	2192	2633
80°	9483	1971	1634	1971
85°	8491	0	637	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.0	5.7
10°-20°	1039.7	16.4
20°-30°	1574.3	24.8
30°-40°	1577.9	24.8
40°-50°	990.8	15.6
50°-60°	528.0	8.3
60°-70°	217.1	3.4
70°-80°	57.4	0.9
80°-90°	9.7	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°	2973.1	46.8
0°-40°	4551.0	71.6
0°-60°	6069.8	95.5
0°-90°	6354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6354.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3772	3772	3772	3772	3772	
5°	3658	3767	3901	3767	3658	345
15°	3380	3669	4034	3669	3380	956
25°	3166	3455	3734	3455	3166	1452
35°	2553	2625	2490	2625	2553	1599
45°	1798	962	1112	962	1798	1383
55°	1022	356	376	356	1022	911
65°	407	109	100	109	407	422
75°	114	22	18	22	114	129
85°	24	0	2	0	24	26
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°	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2
2.5°	3733.5	3729.8	3728.0	3731.7	3733.5	3740.9	3739.0	3742.7	3742.7	3744.6	3748.2
5°	3658.0	3656.1	3658.0	3658.0	3665.3	3672.7	3670.9	3676.4	3680.1	3689.3	3692.9
7.5°	3588.0	3588.0	3586.1	3593.5	3597.2	3608.3	3606.4	3615.6	3621.1	3630.3	3643.2
10°	3516.1	3516.1	3518.0	3523.5	3525.4	3541.9	3541.9	3554.8	3562.2	3571.4	3588.0
12.5°	3446.2	3446.2	3457.2	3453.5	3460.9	3473.8	3479.3	3492.2	3503.3	3521.7	3538.3
15°	3379.8	3379.8	3383.5	3392.7	3398.3	3414.9	3424.0	3438.8	3451.7	3470.1	3494.1
17.5°	3322.7	3320.9	3322.7	3333.8	3344.9	3359.6	3366.9	3385.4	3398.3	3422.2	3444.4
20°	3265.7	3269.4	3269.4	3278.5	3285.9	3304.3	3311.7	3332.0	3346.7	3368.8	3394.6
22.5°	3215.9	3214.1	3214.1	3227.0	3232.5	3249.1	3256.4	3274.8	3291.4	3309.9	3333.8
25°	3166.2	3162.5	3169.9	3171.7	3175.4	3193.8	3199.3	3212.2	3228.8	3245.4	3269.4
27.5°	3092.5	3088.9	3090.7	3098.0	3103.6	3118.3	3122.0	3134.9	3147.8	3162.5	3182.8
30°	2950.7	2947.0	2945.2	2958.1	2963.6	2974.6	2980.1	3002.3	3005.9	3022.5	3037.2
32.5°	2762.8	2761.0	2764.7	2775.7	2781.2	2796.0	2803.3	2816.2	2825.4	2834.7	2849.4
35°	2552.9	2549.1	2552.9	2563.9	2563.9	2576.8	2582.4	2587.8	2586.0	2587.8	2584.2
37.5°	2357.6	2355.7	2357.6	2363.1	2357.6	2363.1	2357.6	2346.6	2326.3	2304.2	2282.1
40°	2191.8	2193.7	2182.7	2190.0	2169.7	2166.1	2145.8	2118.1	2077.7	2033.5	1970.8
42.5°	2015.0	2009.5	2002.2	2005.8	1989.3	1976.3	1943.2	1908.2	1856.6	1783.0	1707.4
45°	1797.7	1795.9	1792.2	1790.3	1779.3	1766.4	1738.7	1698.2	1641.1	1565.6	1475.3
47.5°	1585.9	1580.3	1580.3	1582.1	1569.3	1567.4	1545.3	1510.4	1460.6	1386.9	1293.0
50°	1383.2	1381.4	1385.1	1392.5	1383.2	1379.6	1364.9	1340.9	1296.7	1234.1	1145.6
52.5°	1200.9	1199.1	1202.8	1212.0	1208.2	1212.0	1197.2	1178.8	1149.3	1088.5	1011.2
55°	1022.3	1022.3	1022.3	1033.3	1033.3	1033.3	1025.9	1014.9	987.2	943.0	871.2
57.5°	836.2	838.0	849.1	850.9	849.1	852.8	850.9	839.9	821.5	790.2	734.9
60°	679.7	679.7	685.2	690.7	688.8	690.7	690.7	685.2	666.8	641.0	596.8
62.5°	537.8	543.4	539.6	543.4	550.7	543.4	539.6	536.0	523.1	506.5	469.7
65°	407.0	410.8	410.8	412.6	408.9	410.8	403.4	397.9	390.5	372.1	348.1
67.5°	309.5	309.5	309.5	309.5	307.6	305.8	303.9	298.4	285.5	278.2	252.3
70°	237.6	226.5	226.5	226.5	226.5	228.4	222.9	215.5	211.8	198.9	180.5
72.5°	158.4	162.1	158.4	158.4	154.7	156.6	149.2	145.5	141.8	134.5	123.4
75°	114.2	105.0	108.6	110.5	105.0	108.6	101.3	93.9	93.9	88.4	82.9
77.5°	73.7	71.9	73.7	75.5	73.7	71.9	68.2	64.4	64.4	62.6	57.1
80°	53.4	51.6	51.6	51.6	49.7	51.6	47.9	47.9	44.2	42.4	38.7
82.5°	35.0	35.0	33.1	35.0	33.1	35.0	29.5	29.5	29.5	27.6	24.0
85°	24.0	20.2	20.2	22.1	18.4	22.1	20.2	18.4	16.6	16.6	14.7
87.5°	11.1	12.9	11.1	12.9	11.1	11.1	12.9	11.1	11.1	7.4	7.4
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°	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2
2.5°	3753.7	3755.6	3755.6	3763.0	3766.6	3768.5	3768.5	3783.2	3777.7	3781.4	3785.1
5°	3700.4	3711.4	3715.1	3715.1	3735.3	3742.7	3750.0	3766.6	3768.5	3779.5	3792.4
7.5°	3648.7	3661.6	3669.1	3685.6	3698.5	3711.4	3733.5	3744.6	3755.6	3770.3	3786.9
10°	3599.0	3613.8	3628.5	3641.4	3661.6	3678.2	3692.9	3718.7	3731.7	3751.9	3774.0
12.5°	3551.2	3571.4	3584.3	3606.4	3628.5	3643.2	3665.3	3689.3	3709.5	3729.8	3755.6
15°	3508.8	3532.8	3547.5	3571.4	3595.4	3615.6	3639.6	3669.1	3683.8	3707.7	3731.7
17.5°	3462.7	3488.6	3507.0	3529.0	3558.5	3580.6	3600.9	3630.3	3648.7	3674.5	3702.2
20°	3414.9	3440.6	3462.7	3484.8	3514.3	3536.4	3560.3	3589.8	3610.1	3635.9	3658.0
22.5°	3357.8	3381.7	3405.6	3431.4	3460.9	3479.3	3507.0	3532.8	3554.8	3578.8	3600.9
25°	3284.1	3313.6	3332.0	3355.9	3379.8	3400.1	3429.6	3455.3	3473.8	3495.9	3516.1
27.5°	3197.5	3219.6	3234.3	3254.6	3278.5	3297.0	3319.0	3344.9	3363.3	3383.5	3398.3
30°	3050.1	3070.4	3083.3	3098.0	3122.0	3138.6	3157.0	3180.9	3193.8	3208.6	3221.5
32.5°	2856.7	2873.3	2880.7	2891.7	2908.4	2924.9	2939.7	2959.9	2965.4	2974.6	2974.6
35°	2576.8	2580.5	2578.6	2582.4	2589.7	2598.9	2611.8	2624.7	2632.0	2632.0	2626.6
37.5°	2248.9	2226.9	2202.9	2184.5	2179.0	2175.2	2182.7	2188.1	2195.6	2199.2	2190.0
40°	1908.2	1858.5	1805.0	1757.1	1724.0	1709.3	1703.8	1707.4	1707.4	1720.3	1720.3
42.5°	1615.4	1537.9	1458.8	1386.9	1339.0	1302.2	1285.6	1285.6	1287.5	1296.7	1302.2
45°	1372.2	1274.6	1182.5	1103.3	1037.0	989.1	967.0	961.5	959.6	963.3	976.2
47.5°	1186.2	1084.9	989.1	891.5	821.5	773.6	753.4	745.9	738.6	745.9	747.8
50°	1040.7	935.7	834.4	736.8	663.1	620.7	594.9	583.8	582.0	582.0	585.7
52.5°	908.0	810.4	709.2	609.7	532.3	491.8	467.8	462.3	455.0	462.3	462.3
55°	782.8	685.2	585.7	491.8	427.3	385.0	362.8	355.5	351.8	357.3	357.3
57.5°	646.5	563.6	471.6	386.8	322.4	292.9	276.3	267.1	265.2	268.9	265.2
60°	530.5	460.5	381.3	303.9	254.2	222.9	210.0	206.3	202.6	206.3	206.3
62.5°	419.9	361.0	296.5	237.6	195.2	173.2	158.4	158.4	156.6	156.6	158.4
65°	311.3	265.2	219.2	169.4	136.3	119.7	108.6	108.6	106.8	108.6	106.8
67.5°	226.5	195.2	158.4	123.4	97.6	88.4	81.0	75.5	79.2	75.5	73.7
70°	165.8	140.0	114.2	93.9	75.5	66.3	60.8	58.9	55.3	55.3	55.3
72.5°	110.5	93.9	77.3	60.8	49.7	40.5	38.7	35.0	31.3	33.1	36.8
75°	73.7	62.6	55.3	44.2	33.1	33.1	22.1	22.1	18.4	22.1	16.6
77.5°	51.6	42.4	33.1	27.6	22.1	20.2	14.7	14.7	12.9	12.9	12.9
80°	36.8	31.3	24.0	20.2	14.7	14.7	12.9	11.1	9.2	9.2	11.1
82.5°	22.1	16.6	16.6	14.7	9.2	7.4	5.5	7.4	3.7	3.7	3.7
85°	12.9	11.1	9.2	5.5	3.7	3.7	1.8	0.0	1.8	1.8	0.0
87.5°	7.4	3.7	3.7	1.8	0.0	1.8	1.8	0.0	0.0	0.0	3.7
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°	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2
2.5°	3794.3	3792.4	3796.1	3796.1	3807.2	3805.3	3810.8	3810.8	3807.2	3809.0	3816.4
5°	3807.2	3812.7	3823.7	3833.0	3849.5	3856.9	3866.1	3875.4	3877.2	3882.7	3888.2
7.5°	3807.2	3825.6	3838.5	3855.0	3877.2	3890.1	3910.3	3926.9	3934.3	3943.4	3954.5
10°	3799.8	3818.2	3842.1	3860.6	3888.2	3908.5	3928.7	3954.5	3965.6	3980.3	3995.1
12.5°	3785.1	3805.3	3831.1	3855.0	3886.3	3904.8	3930.5	3954.5	3971.1	3991.3	4007.9
15°	3763.0	3786.9	3810.8	3834.8	3867.9	3890.1	3914.0	3941.6	3958.2	3980.3	3995.1
17.5°	3728.0	3753.7	3775.9	3797.9	3829.3	3855.0	3877.2	3902.9	3919.5	3938.0	3958.2
20°	3685.6	3709.5	3733.5	3751.9	3783.2	3805.3	3829.3	3853.2	3866.1	3869.8	3901.1
22.5°	3632.2	3648.7	3667.2	3696.7	3715.1	3735.3	3757.5	3779.5	3792.4	3812.7	3823.7
25°	3543.7	3560.3	3580.6	3593.5	3615.6	3632.2	3654.3	3678.2	3685.6	3700.4	3711.4
27.5°	3420.4	3429.6	3438.8	3449.8	3462.7	3471.9	3484.8	3495.9	3503.3	3510.6	3518.0
30°	3225.1	3225.1	3225.1	3217.7	3223.3	3228.8	3230.6	3228.8	3228.8	3227.0	3227.0
32.5°	2967.3	2952.6	2935.9	2921.2	2915.7	2908.4	2904.6	2899.1	2889.9	2884.4	2886.2
35°	2619.1	2586.0	2565.8	2547.3	2532.6	2521.6	2516.0	2510.5	2508.7	2501.3	2493.9
37.5°	2184.5	2160.5	2145.8	2134.8	2121.9	2110.8	2112.6	2114.5	2120.0	2116.3	2118.1
40°	1724.0	1718.5	1724.0	1711.1	1707.4	1711.1	1720.3	1733.2	1740.6	1748.0	1760.8
42.5°	1311.4	1320.6	1333.6	1333.6	1339.0	1346.4	1357.4	1377.8	1388.7	1401.6	1416.4
45°	987.2	998.3	1014.9	1020.4	1024.1	1033.3	1046.2	1062.8	1070.1	1081.2	1094.1
47.5°	760.7	768.1	777.2	786.5	795.7	799.4	812.3	812.3	821.5	828.9	832.5
50°	593.1	600.4	607.8	613.3	617.0	622.6	626.2	631.8	633.6	637.3	639.1
52.5°	464.1	473.4	473.4	477.0	482.6	488.1	486.3	488.1	489.9	489.9	495.4
55°	362.8	362.8	368.4	368.4	372.1	370.2	372.1	372.1	372.1	372.1	373.9
57.5°	270.7	272.6	278.2	274.4	272.6	276.3	272.6	276.3	274.4	278.2	272.6
60°	208.1	208.1	210.0	210.0	211.8	211.8	211.8	210.0	210.0	208.1	208.1
62.5°	156.6	158.4	160.3	158.4	158.4	158.4	156.6	156.6	154.7	152.8	152.8
65°	105.0	103.2	106.8	103.2	105.0	105.0	103.2	105.0	99.5	101.3	99.5
67.5°	75.5	73.7	71.9	73.7	71.9	70.0	70.0	71.9	73.7	68.2	68.2
70°	49.7	51.6	49.7	51.6	53.4	53.4	51.6	49.7	51.6	47.9	49.7
72.5°	31.3	31.3	31.3	31.3	31.3	33.1	33.1	33.1	29.5	29.5	27.6
75°	14.7	20.2	16.6	14.7	20.2	20.2	18.4	18.4	16.6	16.6	16.6
77.5°	14.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	9.2	11.1	9.2
80°	7.4	7.4	7.4	5.5	7.4	7.4	9.2	7.4	7.4	5.5	9.2
82.5°	3.7	3.7	3.7	0.0	1.8	3.7	3.7	1.8	3.7	3.7	1.8
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: P248895

CATALOG NUMBER: LD8B80D010 ER8B80840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2
2.5°	3814.5	3812.7	3814.5	3816.4	3814.5	3812.7	3814.5	3816.4	3809.0	3807.2	3810.8
5°	3895.6	3895.6	3899.2	3901.1	3899.2	3895.6	3895.6	3888.2	3882.7	3877.2	3875.4
7.5°	3965.6	3969.3	3972.9	3974.7	3972.9	3969.3	3965.6	3954.5	3943.4	3934.3	3926.9
10°	4007.9	4013.5	4020.8	4024.5	4020.8	4013.5	4007.9	3995.1	3980.3	3965.6	3954.5
12.5°	4026.4	4031.9	4041.1	4039.3	4041.1	4031.9	4026.4	4007.9	3991.3	3971.1	3954.5
15°	4013.5	4020.8	4030.0	4033.7	4030.0	4020.8	4013.5	3995.1	3980.3	3958.2	3941.6
17.5°	3972.9	3984.0	3989.5	3995.1	3989.5	3984.0	3972.9	3958.2	3938.0	3919.5	3902.9
20°	3917.7	3925.1	3932.4	3934.3	3932.4	3925.1	3917.7	3901.1	3869.8	3866.1	3853.2
22.5°	3838.5	3844.0	3860.6	3855.0	3860.6	3844.0	3838.5	3823.7	3812.7	3792.4	3779.5
25°	3724.3	3729.8	3731.7	3733.5	3731.7	3729.8	3724.3	3711.4	3700.4	3685.6	3678.2
27.5°	3527.2	3527.2	3530.9	3532.8	3530.9	3527.2	3527.2	3518.0	3510.6	3503.3	3495.9
30°	3228.8	3228.8	3228.8	3238.1	3228.8	3228.8	3228.8	3227.0	3227.0	3228.8	3228.8
32.5°	2884.4	2880.7	2877.0	2880.7	2877.0	2880.7	2884.4	2886.2	2884.4	2889.9	2899.1
35°	2493.9	2492.1	2497.6	2490.2	2497.6	2492.1	2493.9	2493.9	2501.3	2508.7	2510.5
37.5°	2120.0	2116.3	2123.7	2116.3	2123.7	2116.3	2120.0	2118.1	2116.3	2120.0	2114.5
40°	1764.6	1768.2	1768.2	1783.0	1768.2	1768.2	1764.6	1760.8	1748.0	1740.6	1733.2
42.5°	1423.8	1434.8	1431.1	1442.2	1431.1	1434.8	1423.8	1416.4	1401.6	1388.7	1377.8
45°	1101.4	1108.8	1108.8	1112.5	1108.8	1108.8	1101.4	1094.1	1081.2	1070.1	1062.8
47.5°	845.4	845.4	845.4	847.3	845.4	845.4	845.4	832.5	828.9	821.5	812.3
50°	642.8	644.6	646.5	648.4	646.5	644.6	642.8	639.1	637.3	633.6	631.8
52.5°	493.6	495.4	491.8	495.4	491.8	495.4	493.6	495.4	489.9	489.9	488.1
55°	373.9	372.1	373.9	375.7	373.9	372.1	373.9	373.9	372.1	372.1	372.1
57.5°	274.4	270.7	270.7	270.7	270.7	270.7	274.4	272.6	278.2	274.4	276.3
60°	204.5	206.3	206.3	208.1	206.3	206.3	204.5	208.1	208.1	210.0	210.0
62.5°	151.0	156.6	152.8	156.6	152.8	156.6	151.0	152.8	152.8	154.7	156.6
65°	97.6	97.6	97.6	99.5	97.6	97.6	97.6	99.5	101.3	99.5	105.0
67.5°	66.3	68.2	71.9	70.0	71.9	68.2	66.3	68.2	68.2	73.7	71.9
70°	53.4	47.9	47.9	53.4	47.9	47.9	53.4	49.7	47.9	51.6	49.7
72.5°	31.3	27.6	31.3	31.3	31.3	27.6	31.3	27.6	29.5	29.5	33.1
75°	16.6	14.7	12.9	18.4	12.9	14.7	16.6	16.6	16.6	16.6	18.4
77.5°	11.1	9.2	12.9	12.9	12.9	9.2	11.1	9.2	11.1	9.2	11.1
80°	5.5	7.4	5.5	9.2	5.5	7.4	5.5	9.2	5.5	7.4	7.4
82.5°	1.8	3.7	3.7	3.7	3.7	3.7	1.8	1.8	3.7	3.7	1.8
85°	0.0	3.7	1.8	1.8	1.8	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.0	0.0	1.8	0.0	0.0	1.8	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: P248895

CATALOG NUMBER: LD8B80D010 ER8B80840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2
2.5°	3810.8	3805.3	3807.2	3796.1	3796.1	3792.4	3794.3	3785.1	3781.4	3777.7	3783.2
5°	3866.1	3856.9	3849.5	3833.0	3823.7	3812.7	3807.2	3792.4	3779.5	3768.5	3766.6
7.5°	3910.3	3890.1	3877.2	3855.0	3838.5	3825.6	3807.2	3786.9	3770.3	3755.6	3744.6
10°	3928.7	3908.5	3888.2	3860.6	3842.1	3818.2	3799.8	3774.0	3751.9	3731.7	3718.7
12.5°	3930.5	3904.8	3886.3	3855.0	3831.1	3805.3	3785.1	3755.6	3729.8	3709.5	3689.3
15°	3914.0	3890.1	3867.9	3834.8	3810.8	3786.9	3763.0	3731.7	3707.7	3683.8	3669.1
17.5°	3877.2	3855.0	3829.3	3797.9	3775.9	3753.7	3728.0	3702.2	3674.5	3648.7	3630.3
20°	3829.3	3805.3	3783.2	3751.9	3733.5	3709.5	3685.6	3658.0	3635.9	3610.1	3589.8
22.5°	3757.5	3735.3	3715.1	3696.7	3667.2	3648.7	3632.2	3600.9	3578.8	3554.8	3532.8
25°	3654.3	3632.2	3615.6	3593.5	3580.6	3560.3	3543.7	3516.1	3495.9	3473.8	3455.3
27.5°	3484.8	3471.9	3462.7	3449.8	3438.8	3429.6	3420.4	3398.3	3383.5	3363.3	3344.9
30°	3230.6	3228.8	3223.3	3217.7	3225.1	3225.1	3225.1	3221.5	3208.6	3193.8	3180.9
32.5°	2904.6	2908.4	2915.7	2921.2	2935.9	2952.6	2967.3	2974.6	2974.6	2965.4	2959.9
35°	2516.0	2521.6	2532.6	2547.3	2565.8	2586.0	2619.1	2626.6	2632.0	2632.0	2624.7
37.5°	2112.6	2110.8	2121.9	2134.8	2145.8	2160.5	2184.5	2190.0	2199.2	2195.6	2188.1
40°	1720.3	1711.1	1707.4	1711.1	1724.0	1718.5	1724.0	1720.3	1720.3	1707.4	1707.4
42.5°	1357.4	1346.4	1339.0	1333.6	1333.6	1320.6	1311.4	1302.2	1296.7	1287.5	1285.6
45°	1046.2	1033.3	1024.1	1020.4	1014.9	998.3	987.2	976.2	963.3	959.6	961.5
47.5°	812.3	799.4	795.7	786.5	777.2	768.1	760.7	747.8	745.9	738.6	745.9
50°	626.2	622.6	617.0	613.3	607.8	600.4	593.1	585.7	582.0	582.0	583.8
52.5°	486.3	488.1	482.6	477.0	473.4	473.4	464.1	462.3	462.3	455.0	462.3
55°	372.1	370.2	372.1	368.4	368.4	362.8	362.8	357.3	357.3	351.8	355.5
57.5°	272.6	276.3	272.6	274.4	278.2	272.6	270.7	265.2	268.9	265.2	267.1
60°	211.8	211.8	211.8	210.0	210.0	208.1	208.1	206.3	206.3	202.6	206.3
62.5°	156.6	158.4	158.4	158.4	160.3	158.4	156.6	158.4	156.6	156.6	158.4
65°	103.2	105.0	105.0	103.2	106.8	103.2	105.0	106.8	108.6	106.8	108.6
67.5°	70.0	70.0	71.9	73.7	71.9	73.7	75.5	73.7	75.5	79.2	75.5
70°	51.6	53.4	53.4	51.6	49.7	51.6	49.7	55.3	55.3	55.3	58.9
72.5°	33.1	33.1	31.3	31.3	31.3	31.3	31.3	36.8	33.1	31.3	35.0
75°	18.4	20.2	20.2	14.7	16.6	20.2	14.7	16.6	22.1	18.4	22.1
77.5°	11.1	11.1	11.1	11.1	11.1	11.1	14.7	12.9	12.9	12.9	14.7
80°	9.2	7.4	7.4	5.5	7.4	7.4	7.4	11.1	9.2	9.2	11.1
82.5°	3.7	3.7	1.8	0.0	3.7	3.7	3.7	3.7	3.7	3.7	7.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	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: P248895

CATALOG NUMBER: LD8B80D010 ER8B80840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2
2.5°	3768.5	3768.5	3766.6	3763.0	3755.6	3755.6	3753.7	3748.2	3744.6	3742.7	3742.7
5°	3750.0	3742.7	3735.3	3715.1	3715.1	3711.4	3700.4	3692.9	3689.3	3680.1	3676.4
7.5°	3733.5	3711.4	3698.5	3685.6	3669.1	3661.6	3648.7	3643.2	3630.3	3621.1	3615.6
10°	3692.9	3678.2	3661.6	3641.4	3628.5	3613.8	3599.0	3588.0	3571.4	3562.2	3554.8
12.5°	3665.3	3643.2	3628.5	3606.4	3584.3	3571.4	3551.2	3538.3	3521.7	3503.3	3492.2
15°	3639.6	3615.6	3595.4	3571.4	3547.5	3532.8	3508.8	3494.1	3470.1	3451.7	3438.8
17.5°	3600.9	3580.6	3558.5	3529.0	3507.0	3488.6	3462.7	3444.4	3422.2	3398.3	3385.4
20°	3560.3	3536.4	3514.3	3484.8	3462.7	3440.6	3414.9	3394.6	3368.8	3346.7	3332.0
22.5°	3507.0	3479.3	3460.9	3431.4	3405.6	3381.7	3357.8	3333.8	3309.9	3291.4	3274.8
25°	3429.6	3400.1	3379.8	3355.9	3332.0	3313.6	3284.1	3269.4	3245.4	3228.8	3212.2
27.5°	3319.0	3297.0	3278.5	3254.6	3234.3	3219.6	3197.5	3182.8	3162.5	3147.8	3134.9
30°	3157.0	3138.6	3122.0	3098.0	3083.3	3070.4	3050.1	3037.2	3022.5	3005.9	3002.3
32.5°	2939.7	2924.9	2908.4	2891.7	2880.7	2873.3	2856.7	2849.4	2834.7	2825.4	2816.2
35°	2611.8	2598.9	2589.7	2582.4	2578.6	2580.5	2576.8	2584.2	2587.8	2586.0	2587.8
37.5°	2182.7	2175.2	2179.0	2184.5	2202.9	2226.9	2248.9	2282.1	2304.2	2326.3	2346.6
40°	1703.8	1709.3	1724.0	1757.1	1805.0	1858.5	1908.2	1970.8	2033.5	2077.7	2118.1
42.5°	1285.6	1302.2	1339.0	1386.9	1458.8	1537.9	1615.4	1707.4	1783.0	1856.6	1908.2
45°	967.0	989.1	1037.0	1103.3	1182.5	1274.6	1372.2	1475.3	1565.6	1641.1	1698.2
47.5°	753.4	773.6	821.5	891.5	989.1	1084.9	1186.2	1293.0	1386.9	1460.6	1510.4
50°	594.9	620.7	663.1	736.8	834.4	935.7	1040.7	1145.6	1234.1	1296.7	1340.9
52.5°	467.8	491.8	532.3	609.7	709.2	810.4	908.0	1011.2	1088.5	1149.3	1178.8
55°	362.8	385.0	427.3	491.8	585.7	685.2	782.8	871.2	943.0	987.2	1014.9
57.5°	276.3	292.9	322.4	386.8	471.6	563.6	646.5	734.9	790.2	821.5	839.9
60°	210.0	222.9	254.2	303.9	381.3	460.5	530.5	596.8	641.0	666.8	685.2
62.5°	158.4	173.2	195.2	237.6	296.5	361.0	419.9	469.7	506.5	523.1	536.0
65°	108.6	119.7	136.3	169.4	219.2	265.2	311.3	348.1	372.1	390.5	397.9
67.5°	81.0	88.4	97.6	123.4	158.4	195.2	226.5	252.3	278.2	285.5	298.4
70°	60.8	66.3	75.5	93.9	114.2	140.0	165.8	180.5	198.9	211.8	215.5
72.5°	38.7	40.5	49.7	60.8	77.3	93.9	110.5	123.4	134.5	141.8	145.5
75°	22.1	33.1	33.1	44.2	55.3	62.6	73.7	82.9	88.4	93.9	93.9
77.5°	14.7	20.2	22.1	27.6	33.1	42.4	51.6	57.1	62.6	64.4	64.4
80°	12.9	14.7	14.7	20.2	24.0	31.3	36.8	38.7	42.4	44.2	47.9
82.5°	5.5	7.4	9.2	14.7	16.6	16.6	22.1	24.0	27.6	29.5	29.5
85°	1.8	3.7	3.7	5.5	9.2	11.1	12.9	14.7	16.6	16.6	18.4
87.5°	1.8	1.8	0.0	1.8	3.7	3.7	7.4	7.4	7.4	11.1	11.1
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: P248895

CATALOG NUMBER: LD8B80D010 ER8B80840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2	3772.2
2.5°	3739.0	3740.9	3733.5	3731.7	3728.0	3729.8	3733.5
5°	3670.9	3672.7	3665.3	3658.0	3658.0	3656.1	3658.0
7.5°	3606.4	3608.3	3597.2	3593.5	3586.1	3588.0	3588.0
10°	3541.9	3541.9	3525.4	3523.5	3518.0	3516.1	3516.1
12.5°	3479.3	3473.8	3460.9	3453.5	3457.2	3446.2	3446.2
15°	3424.0	3414.9	3398.3	3392.7	3383.5	3379.8	3379.8
17.5°	3366.9	3359.6	3344.9	3333.8	3322.7	3320.9	3322.7
20°	3311.7	3304.3	3285.9	3278.5	3269.4	3269.4	3265.7
22.5°	3256.4	3249.1	3232.5	3227.0	3214.1	3214.1	3215.9
25°	3199.3	3193.8	3175.4	3171.7	3169.9	3162.5	3166.2
27.5°	3122.0	3118.3	3103.6	3098.0	3090.7	3088.9	3092.5
30°	2980.1	2974.6	2963.6	2958.1	2945.2	2947.0	2950.7
32.5°	2803.3	2796.0	2781.2	2775.7	2764.7	2761.0	2762.8
35°	2582.4	2576.8	2563.9	2563.9	2552.9	2549.1	2552.9
37.5°	2357.6	2363.1	2357.6	2363.1	2357.6	2355.7	2357.6
40°	2145.8	2166.1	2169.7	2190.0	2182.7	2193.7	2191.8
42.5°	1943.2	1976.3	1989.3	2005.8	2002.2	2009.5	2015.0
45°	1738.7	1766.4	1779.3	1790.3	1792.2	1795.9	1797.7
47.5°	1545.3	1567.4	1569.3	1582.1	1580.3	1580.3	1585.9
50°	1364.9	1379.6	1383.2	1392.5	1385.1	1381.4	1383.2
52.5°	1197.2	1212.0	1208.2	1212.0	1202.8	1199.1	1200.9
55°	1025.9	1033.3	1033.3	1033.3	1022.3	1022.3	1022.3
57.5°	850.9	852.8	849.1	850.9	849.1	838.0	836.2
60°	690.7	690.7	688.8	690.7	685.2	679.7	679.7
62.5°	539.6	543.4	550.7	543.4	539.6	543.4	537.8
65°	403.4	410.8	408.9	412.6	410.8	410.8	407.0
67.5°	303.9	305.8	307.6	309.5	309.5	309.5	309.5
70°	222.9	228.4	226.5	226.5	226.5	226.5	237.6
72.5°	149.2	156.6	154.7	158.4	158.4	162.1	158.4
75°	101.3	108.6	105.0	110.5	108.6	105.0	114.2
77.5°	68.2	71.9	73.7	75.5	73.7	71.9	73.7
80°	47.9	51.6	49.7	51.6	51.6	51.6	53.4
82.5°	29.5	35.0	33.1	35.0	33.1	35.0	35.0
85°	20.2	22.1	18.4	22.1	20.2	20.2	24.0
87.5°	12.9	11.1	11.1	12.9	11.1	12.9	11.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)