

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: P248751

Luminaire Tested: **LD8B80D010 ER8B809730 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248751
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 ER8B809730 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6112.0 lumens
Efficiency: N/A
Efficacy: 82.2 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

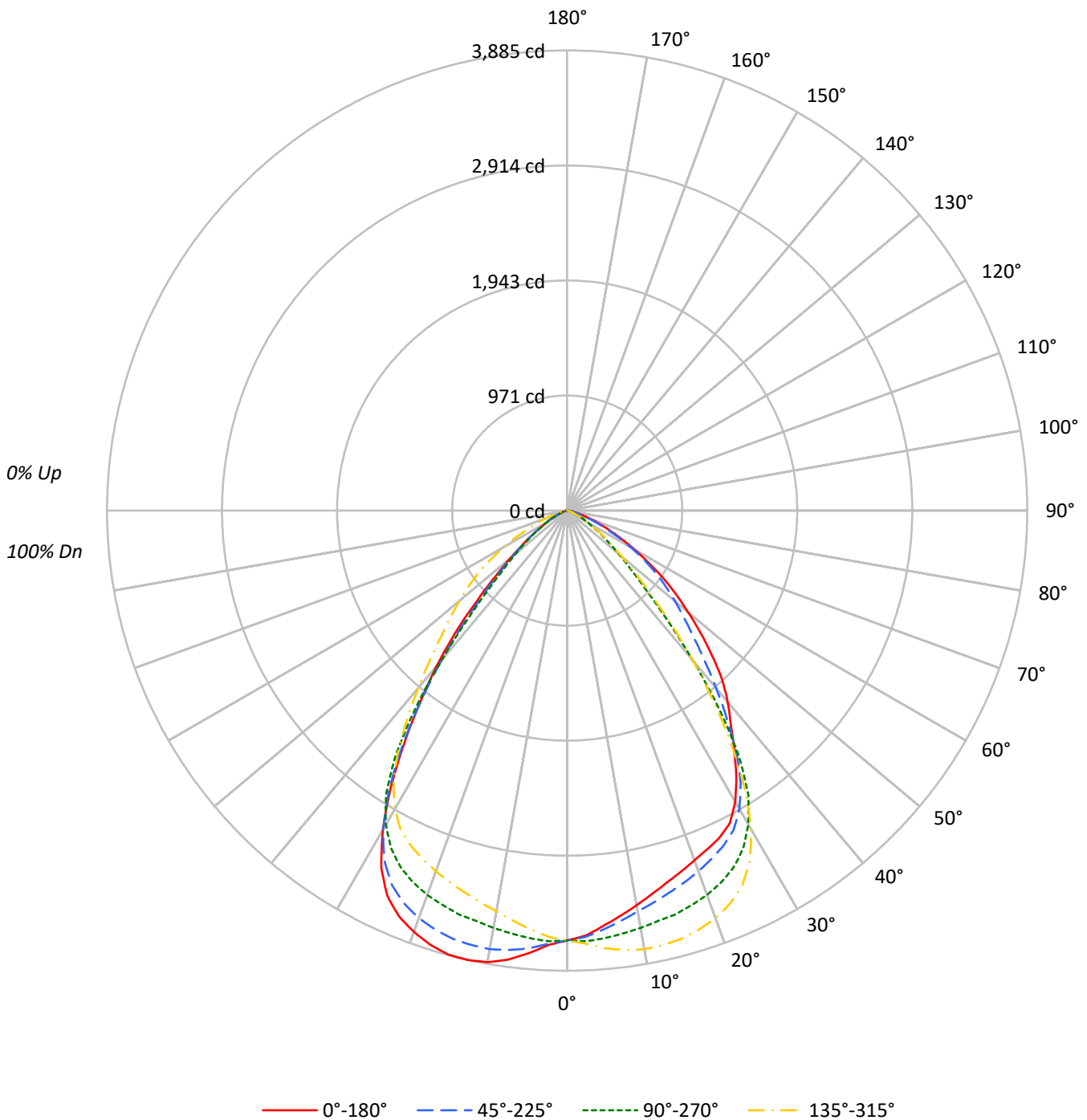
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	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°	345.4	5.7
10°-20°	1000.1	16.4
20°-30°	1514.4	24.8
30°-40°	1517.8	24.8
40°-50°	953.1	15.6
50°-60°	507.9	8.3
60°-70°	208.9	3.4
70°-80°	55.2	0.9
80°-90°	9.3	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°	2859.9	46.8
0°-40°	4377.6	71.6
0°-60°	5838.6	95.5
0°-90°	6112.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6112.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3628	3628	3628	3628	3628	
5°	3519	3623	3752	3623	3519	332
15°	3251	3529	3880	3529	3251	920
25°	3046	3324	3591	3324	3046	1397
35°	2456	2525	2395	2525	2456	1538
45°	1729	925	1070	925	1729	1330
55°	983	342	361	342	983	877
65°	392	104	96	104	392	406
75°	110	21	18	21	110	124
85°	23	0	2	0	23	25
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°	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5
2.5°	3591.3	3587.7	3586.0	3589.6	3591.3	3598.4	3596.6	3600.1	3600.1	3602.0	3605.5
5°	3518.7	3516.9	3518.7	3518.7	3525.7	3532.8	3531.1	3536.4	3539.9	3548.8	3552.3
7.5°	3451.4	3451.4	3449.5	3456.6	3460.2	3470.8	3469.0	3477.9	3483.2	3492.1	3504.5
10°	3382.2	3382.2	3384.0	3389.3	3391.1	3407.0	3407.0	3419.4	3426.5	3435.4	3451.4
12.5°	3314.9	3314.9	3325.6	3322.0	3329.1	3341.5	3346.8	3359.2	3369.8	3387.6	3403.5
15°	3251.1	3251.1	3254.7	3263.5	3268.8	3284.8	3293.6	3307.8	3320.2	3338.0	3361.0
17.5°	3196.2	3194.4	3196.2	3206.8	3217.5	3231.6	3238.7	3256.4	3268.8	3291.9	3313.2
20°	3141.3	3144.9	3144.9	3153.7	3160.8	3178.5	3185.5	3205.1	3219.2	3240.5	3265.3
22.5°	3093.4	3091.7	3091.7	3104.1	3109.4	3125.3	3132.4	3150.1	3166.1	3183.8	3206.8
25°	3045.6	3042.0	3049.2	3050.9	3054.4	3072.1	3077.5	3089.9	3105.8	3121.8	3144.9
27.5°	2974.7	2971.2	2973.0	2980.0	2985.4	2999.5	3003.1	3015.5	3027.9	3042.0	3061.6
30°	2838.3	2834.8	2833.0	2845.4	2850.7	2861.3	2866.6	2887.9	2891.4	2907.4	2921.6
32.5°	2657.6	2655.8	2659.4	2670.0	2675.3	2689.5	2696.6	2709.0	2717.8	2726.7	2740.8
35°	2455.6	2452.1	2455.6	2466.3	2466.3	2478.7	2484.0	2489.3	2487.5	2489.3	2485.8
37.5°	2267.8	2266.0	2267.8	2273.1	2267.8	2273.1	2267.8	2257.2	2237.7	2216.4	2195.1
40°	2108.4	2110.1	2099.5	2106.6	2087.1	2083.6	2064.1	2037.5	1998.5	1956.0	1895.8
42.5°	1938.3	1933.0	1925.9	1929.4	1913.5	1901.0	1869.2	1835.5	1785.9	1715.1	1642.4
45°	1729.2	1727.5	1723.9	1722.1	1711.5	1699.1	1672.5	1633.5	1578.6	1506.0	1419.1
47.5°	1525.5	1520.1	1520.1	1521.9	1509.5	1507.7	1486.4	1452.8	1405.0	1334.1	1243.8
50°	1330.5	1328.8	1332.4	1339.4	1330.5	1327.0	1312.9	1289.8	1247.3	1187.1	1102.0
52.5°	1155.1	1153.4	1157.0	1165.8	1162.2	1165.8	1151.6	1133.9	1105.6	1047.1	972.7
55°	983.3	983.3	983.3	993.9	993.9	993.9	986.8	976.3	949.6	907.1	838.1
57.5°	804.4	806.1	816.8	818.5	816.8	820.3	818.5	807.9	790.2	760.1	706.9
60°	653.8	653.8	659.1	664.4	662.6	664.4	664.4	659.1	641.4	616.6	574.1
62.5°	517.3	522.7	519.1	522.7	529.7	522.7	519.1	515.6	503.2	487.2	451.8
65°	391.5	395.1	395.1	396.9	393.3	395.1	388.0	382.7	375.6	357.9	334.9
67.5°	297.7	297.7	297.7	297.7	295.9	294.1	292.4	287.0	274.6	267.6	242.7
70°	228.5	217.9	217.9	217.9	217.9	219.7	214.4	207.3	203.8	191.4	173.6
72.5°	152.3	155.9	152.3	152.3	148.8	150.6	143.5	139.9	136.4	129.4	118.7
75°	109.8	101.0	104.5	106.3	101.0	104.5	97.4	90.4	90.4	85.0	79.7
77.5°	70.9	69.1	70.9	72.6	70.9	69.1	65.6	62.0	62.0	60.2	54.9
80°	51.4	49.6	49.6	49.6	47.8	49.6	46.1	46.1	42.5	40.8	37.2
82.5°	33.7	33.7	31.9	33.7	31.9	33.7	28.4	28.4	28.4	26.5	23.0
85°	23.0	19.5	19.5	21.3	17.7	21.3	19.5	17.7	16.0	16.0	14.1
87.5°	10.6	12.4	10.6	12.4	10.6	10.6	12.4	10.6	10.6	7.1	7.1
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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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5
2.5°	3610.8	3612.5	3612.5	3619.7	3623.2	3624.9	3624.9	3639.1	3633.8	3637.4	3640.9
5°	3559.4	3570.0	3573.6	3573.6	3593.1	3600.1	3607.2	3623.2	3624.9	3635.6	3648.0
7.5°	3509.8	3522.2	3529.3	3545.2	3557.6	3570.0	3591.3	3602.0	3612.5	3626.8	3642.6
10°	3461.9	3476.2	3490.3	3502.7	3522.2	3538.1	3552.3	3577.1	3589.6	3609.0	3630.3
12.5°	3415.9	3435.4	3447.8	3469.0	3490.3	3504.5	3525.7	3548.8	3568.3	3587.7	3612.5
15°	3375.2	3398.2	3412.3	3435.4	3458.4	3477.9	3501.0	3529.3	3543.5	3566.5	3589.6
17.5°	3330.8	3355.7	3373.4	3394.6	3423.0	3444.2	3463.8	3492.1	3509.8	3534.6	3561.2
20°	3284.8	3309.6	3330.8	3352.1	3380.5	3401.7	3424.7	3453.1	3472.6	3497.4	3518.7
22.5°	3229.9	3252.9	3275.9	3300.7	3329.1	3346.8	3373.4	3398.2	3419.4	3442.5	3463.8
25°	3159.0	3187.4	3205.1	3228.1	3251.1	3270.6	3298.9	3323.7	3341.5	3362.8	3382.2
27.5°	3075.7	3097.0	3111.2	3130.6	3153.7	3171.4	3192.6	3217.5	3235.2	3254.7	3268.8
30°	2934.0	2953.5	2965.9	2980.0	3003.1	3019.1	3036.8	3059.8	3072.1	3086.4	3098.8
32.5°	2747.9	2763.9	2771.0	2781.6	2797.6	2813.5	2827.7	2847.2	2852.5	2861.3	2861.3
35°	2478.7	2482.2	2480.4	2484.0	2491.1	2499.9	2512.3	2524.7	2531.8	2531.8	2526.5
37.5°	2163.3	2142.1	2119.0	2101.3	2096.0	2092.4	2099.5	2104.8	2111.9	2115.4	2106.6
40°	1835.5	1787.7	1736.3	1690.2	1658.3	1644.2	1638.9	1642.4	1642.4	1654.8	1654.8
42.5°	1553.8	1479.4	1403.2	1334.1	1288.0	1252.6	1236.7	1236.7	1238.4	1247.3	1252.6
45°	1320.0	1226.0	1137.4	1061.3	997.5	951.4	930.2	924.8	923.1	926.6	939.0
47.5°	1141.0	1043.6	951.4	857.5	790.2	744.1	724.7	717.5	710.4	717.5	719.3
50°	1001.1	900.1	802.6	708.7	637.8	597.0	572.2	561.6	559.9	559.9	563.4
52.5°	873.4	779.6	682.1	586.5	512.0	473.1	450.0	444.7	437.6	444.7	444.7
55°	753.0	659.1	563.4	473.1	411.0	370.3	349.0	341.9	338.4	343.7	343.7
57.5°	621.9	542.1	453.6	372.1	310.1	281.7	265.7	256.9	255.1	258.7	255.1
60°	510.3	443.0	366.7	292.4	244.5	214.4	202.0	198.4	194.9	198.4	198.4
62.5°	403.9	347.3	285.2	228.5	187.8	166.6	152.3	152.3	150.6	150.6	152.3
65°	299.4	255.1	210.8	163.0	131.1	115.1	104.5	104.5	102.8	104.5	102.8
67.5°	217.9	187.8	152.3	118.7	93.9	85.0	78.0	72.6	76.2	72.6	70.9
70°	159.5	134.6	109.8	90.4	72.6	63.8	58.5	56.7	53.2	53.2	53.2
72.5°	106.3	90.4	74.4	58.5	47.8	38.9	37.2	33.7	30.1	31.9	35.4
75°	70.9	60.2	53.2	42.5	31.9	31.9	21.3	21.3	17.7	21.3	16.0
77.5°	49.6	40.8	31.9	26.5	21.3	19.5	14.1	14.1	12.4	12.4	12.4
80°	35.4	30.1	23.0	19.5	14.1	14.1	12.4	10.6	8.8	8.8	10.6
82.5°	21.3	16.0	16.0	14.1	8.8	7.1	5.3	7.1	3.6	3.6	3.6
85°	12.4	10.6	8.8	5.3	3.6	3.6	1.8	0.0	1.8	1.8	0.0
87.5°	7.1	3.6	3.6	1.8	0.0	1.8	1.8	0.0	0.0	0.0	3.6
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°	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5
2.5°	3649.8	3648.0	3651.5	3651.5	3662.2	3660.4	3665.7	3665.7	3662.2	3663.9	3671.0
5°	3662.2	3667.5	3678.1	3687.0	3702.9	3710.0	3718.9	3727.8	3729.5	3734.8	3740.2
7.5°	3662.2	3679.9	3692.3	3708.2	3729.5	3741.9	3761.4	3777.3	3784.4	3793.2	3803.9
10°	3655.0	3672.8	3695.8	3713.5	3740.2	3759.6	3779.1	3803.9	3814.5	3828.7	3842.9
12.5°	3640.9	3660.4	3685.2	3708.2	3738.3	3756.0	3780.8	3803.9	3819.9	3839.3	3855.3
15°	3619.7	3642.6	3665.7	3688.7	3720.6	3741.9	3764.9	3791.5	3807.5	3828.7	3842.9
17.5°	3586.0	3610.8	3632.1	3653.3	3683.4	3708.2	3729.5	3754.3	3770.3	3788.0	3807.5
20°	3545.2	3568.3	3591.3	3609.0	3639.1	3660.4	3683.4	3706.5	3718.9	3722.4	3752.5
22.5°	3493.9	3509.8	3527.5	3555.9	3573.6	3593.1	3614.4	3635.6	3648.0	3667.5	3678.1
25°	3408.8	3424.7	3444.2	3456.6	3477.9	3493.9	3515.1	3538.1	3545.2	3559.4	3570.0
27.5°	3290.1	3298.9	3307.8	3318.4	3330.8	3339.7	3352.1	3362.8	3369.8	3376.9	3384.0
30°	3102.3	3102.3	3102.3	3095.2	3100.5	3105.8	3107.6	3105.8	3105.8	3104.1	3104.1
32.5°	2854.2	2840.1	2824.1	2810.0	2804.7	2797.6	2794.0	2788.7	2779.9	2774.5	2776.3
35°	2519.4	2487.5	2468.0	2450.3	2436.2	2425.5	2420.2	2414.9	2413.1	2406.0	2398.9
37.5°	2101.3	2078.2	2064.1	2053.4	2041.0	2030.4	2032.2	2034.0	2039.2	2035.7	2037.5
40°	1658.3	1653.0	1658.3	1645.9	1642.4	1645.9	1654.8	1667.2	1674.3	1681.4	1693.8
42.5°	1261.5	1270.3	1282.8	1282.8	1288.0	1295.2	1305.7	1325.3	1335.9	1348.3	1362.5
45°	949.6	960.3	976.3	981.5	985.1	993.9	1006.4	1022.3	1029.3	1040.0	1052.4
47.5°	731.7	738.8	747.6	756.5	765.4	768.9	781.3	781.3	790.2	797.3	800.8
50°	570.5	577.6	584.6	590.0	593.5	598.9	602.4	607.7	609.4	613.0	614.8
52.5°	446.5	455.3	455.3	458.8	464.2	469.5	467.7	469.5	471.2	471.2	476.6
55°	349.0	349.0	354.3	354.3	357.9	356.1	357.9	357.9	357.9	357.9	359.7
57.5°	260.4	262.2	267.6	264.0	262.2	265.7	262.2	265.7	264.0	267.6	262.2
60°	200.2	200.2	202.0	202.0	203.8	203.8	203.8	202.0	202.0	200.2	200.2
62.5°	150.6	152.3	154.2	152.3	152.3	152.3	150.6	150.6	148.8	147.0	147.0
65°	101.0	99.3	102.8	99.3	101.0	101.0	99.3	101.0	95.7	97.4	95.7
67.5°	72.6	70.9	69.1	70.9	69.1	67.3	67.3	69.1	70.9	65.6	65.6
70°	47.8	49.6	47.8	49.6	51.4	51.4	49.6	47.8	49.6	46.1	47.8
72.5°	30.1	30.1	30.1	30.1	30.1	31.9	31.9	31.9	28.4	28.4	26.5
75°	14.1	19.5	16.0	14.1	19.5	19.5	17.7	17.7	16.0	16.0	16.0
77.5°	14.1	10.6	10.6	10.6	10.6	10.6	10.6	10.6	8.8	10.6	8.8
80°	7.1	7.1	7.1	5.3	7.1	7.1	8.8	7.1	7.1	5.3	8.8
82.5°	3.6	3.6	3.6	0.0	1.8	3.6	3.6	1.8	3.6	3.6	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: P248751

CATALOG NUMBER: LD8B80D010 ER8B809730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5
2.5°	3669.3	3667.5	3669.3	3671.0	3669.3	3667.5	3669.3	3671.0	3663.9	3662.2	3665.7
5°	3747.2	3747.2	3750.7	3752.5	3750.7	3747.2	3747.2	3740.2	3734.8	3729.5	3727.8
7.5°	3814.5	3818.1	3821.6	3823.4	3821.6	3818.1	3814.5	3803.9	3793.2	3784.4	3777.3
10°	3855.3	3860.6	3867.7	3871.2	3867.7	3860.6	3855.3	3842.9	3828.7	3814.5	3803.9
12.5°	3873.0	3878.3	3887.2	3885.4	3887.2	3878.3	3873.0	3855.3	3839.3	3819.9	3803.9
15°	3860.6	3867.7	3876.5	3880.1	3876.5	3867.7	3860.6	3842.9	3828.7	3807.5	3791.5
17.5°	3821.6	3832.3	3837.6	3842.9	3837.6	3832.3	3821.6	3807.5	3788.0	3770.3	3754.3
20°	3768.4	3775.6	3782.7	3784.4	3782.7	3775.6	3768.4	3752.5	3722.4	3718.9	3706.5
22.5°	3692.3	3697.6	3713.5	3708.2	3713.5	3697.6	3692.3	3678.1	3667.5	3648.0	3635.6
25°	3582.4	3587.7	3589.6	3591.3	3589.6	3587.7	3582.4	3570.0	3559.4	3545.2	3538.1
27.5°	3392.9	3392.9	3396.4	3398.2	3396.4	3392.9	3392.9	3384.0	3376.9	3369.8	3362.8
30°	3105.8	3105.8	3105.8	3114.7	3105.8	3105.8	3105.8	3104.1	3104.1	3105.8	3105.8
32.5°	2774.5	2771.0	2767.5	2771.0	2767.5	2771.0	2774.5	2776.3	2774.5	2779.9	2788.7
35°	2398.9	2397.1	2402.5	2395.4	2402.5	2397.1	2398.9	2398.9	2406.0	2413.1	2414.9
37.5°	2039.2	2035.7	2042.8	2035.7	2042.8	2035.7	2039.2	2037.5	2035.7	2039.2	2034.0
40°	1697.4	1700.9	1700.9	1715.1	1700.9	1700.9	1697.4	1693.8	1681.4	1674.3	1667.2
42.5°	1369.5	1380.2	1376.6	1387.3	1376.6	1380.2	1369.5	1362.5	1348.3	1335.9	1325.3
45°	1059.5	1066.6	1066.6	1070.1	1066.6	1066.6	1059.5	1052.4	1040.0	1029.3	1022.3
47.5°	813.2	813.2	813.2	815.0	813.2	813.2	813.2	800.8	797.3	790.2	781.3
50°	618.3	620.1	621.9	623.7	621.9	620.1	618.3	614.8	613.0	609.4	607.7
52.5°	474.8	476.6	473.1	476.6	473.1	476.6	474.8	476.6	471.2	471.2	469.5
55°	359.7	357.9	359.7	361.4	359.7	357.9	359.7	359.7	357.9	357.9	357.9
57.5°	264.0	260.4	260.4	260.4	260.4	260.4	264.0	262.2	267.6	264.0	265.7
60°	196.7	198.4	198.4	200.2	198.4	198.4	196.7	200.2	200.2	202.0	202.0
62.5°	145.3	150.6	147.0	150.6	147.0	150.6	145.3	147.0	147.0	148.8	150.6
65°	93.9	93.9	93.9	95.7	93.9	93.9	93.9	95.7	97.4	95.7	101.0
67.5°	63.8	65.6	69.1	67.3	69.1	65.6	63.8	65.6	65.6	70.9	69.1
70°	51.4	46.1	46.1	51.4	46.1	46.1	51.4	47.8	46.1	49.6	47.8
72.5°	30.1	26.5	30.1	30.1	30.1	26.5	30.1	26.5	28.4	28.4	31.9
75°	16.0	14.1	12.4	17.7	12.4	14.1	16.0	16.0	16.0	16.0	17.7
77.5°	10.6	8.8	12.4	12.4	12.4	8.8	10.6	8.8	10.6	8.8	10.6
80°	5.3	7.1	5.3	8.8	5.3	7.1	5.3	8.8	5.3	7.1	7.1
82.5°	1.8	3.6	3.6	3.6	3.6	3.6	1.8	1.8	3.6	3.6	1.8
85°	0.0	3.6	1.8	1.8	1.8	3.6	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: P248751

CATALOG NUMBER: LD8B80D010 ER8B809730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5
2.5°	3665.7	3660.4	3662.2	3651.5	3651.5	3648.0	3649.8	3640.9	3637.4	3633.8	3639.1
5°	3718.9	3710.0	3702.9	3687.0	3678.1	3667.5	3662.2	3648.0	3635.6	3624.9	3623.2
7.5°	3761.4	3741.9	3729.5	3708.2	3692.3	3679.9	3662.2	3642.6	3626.8	3612.5	3602.0
10°	3779.1	3759.6	3740.2	3713.5	3695.8	3672.8	3655.0	3630.3	3609.0	3589.6	3577.1
12.5°	3780.8	3756.0	3738.3	3708.2	3685.2	3660.4	3640.9	3612.5	3587.7	3568.3	3548.8
15°	3764.9	3741.9	3720.6	3688.7	3665.7	3642.6	3619.7	3589.6	3566.5	3543.5	3529.3
17.5°	3729.5	3708.2	3683.4	3653.3	3632.1	3610.8	3586.0	3561.2	3534.6	3509.8	3492.1
20°	3683.4	3660.4	3639.1	3609.0	3591.3	3568.3	3545.2	3518.7	3497.4	3472.6	3453.1
22.5°	3614.4	3593.1	3573.6	3555.9	3527.5	3509.8	3493.9	3463.8	3442.5	3419.4	3398.2
25°	3515.1	3493.9	3477.9	3456.6	3444.2	3424.7	3408.8	3382.2	3362.8	3341.5	3323.7
27.5°	3352.1	3339.7	3330.8	3318.4	3307.8	3298.9	3290.1	3268.8	3254.7	3235.2	3217.5
30°	3107.6	3105.8	3100.5	3095.2	3102.3	3102.3	3102.3	3098.8	3086.4	3072.1	3059.8
32.5°	2794.0	2797.6	2804.7	2810.0	2824.1	2840.1	2854.2	2861.3	2861.3	2852.5	2847.2
35°	2420.2	2425.5	2436.2	2450.3	2468.0	2487.5	2519.4	2526.5	2531.8	2531.8	2524.7
37.5°	2032.2	2030.4	2041.0	2053.4	2064.1	2078.2	2101.3	2106.6	2115.4	2111.9	2104.8
40°	1654.8	1645.9	1642.4	1645.9	1658.3	1653.0	1658.3	1654.8	1654.8	1642.4	1642.4
42.5°	1305.7	1295.2	1288.0	1282.8	1282.8	1270.3	1261.5	1252.6	1247.3	1238.4	1236.7
45°	1006.4	993.9	985.1	981.5	976.3	960.3	949.6	939.0	926.6	923.1	924.8
47.5°	781.3	768.9	765.4	756.5	747.6	738.8	731.7	719.3	717.5	710.4	717.5
50°	602.4	598.9	593.5	590.0	584.6	577.6	570.5	563.4	559.9	559.9	561.6
52.5°	467.7	469.5	464.2	458.8	455.3	455.3	446.5	444.7	444.7	437.6	444.7
55°	357.9	356.1	357.9	354.3	354.3	349.0	349.0	343.7	343.7	338.4	341.9
57.5°	262.2	265.7	262.2	264.0	267.6	262.2	260.4	255.1	258.7	255.1	256.9
60°	203.8	203.8	203.8	202.0	202.0	200.2	200.2	198.4	198.4	194.9	198.4
62.5°	150.6	152.3	152.3	152.3	154.2	152.3	150.6	152.3	150.6	150.6	152.3
65°	99.3	101.0	101.0	99.3	102.8	99.3	101.0	102.8	104.5	102.8	104.5
67.5°	67.3	67.3	69.1	70.9	69.1	70.9	72.6	70.9	72.6	76.2	72.6
70°	49.6	51.4	51.4	49.6	47.8	49.6	47.8	53.2	53.2	53.2	56.7
72.5°	31.9	31.9	30.1	30.1	30.1	30.1	30.1	35.4	31.9	30.1	33.7
75°	17.7	19.5	19.5	14.1	16.0	19.5	14.1	16.0	21.3	17.7	21.3
77.5°	10.6	10.6	10.6	10.6	10.6	10.6	14.1	12.4	12.4	12.4	14.1
80°	8.8	7.1	7.1	5.3	7.1	7.1	7.1	10.6	8.8	8.8	10.6
82.5°	3.6	3.6	1.8	0.0	3.6	3.6	3.6	3.6	3.6	3.6	7.1
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	3.6	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: P248751

CATALOG NUMBER: LD8B80D010 ER8B809730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5
2.5°	3624.9	3624.9	3623.2	3619.7	3612.5	3612.5	3610.8	3605.5	3602.0	3600.1	3600.1
5°	3607.2	3600.1	3593.1	3573.6	3573.6	3570.0	3559.4	3552.3	3548.8	3539.9	3536.4
7.5°	3591.3	3570.0	3557.6	3545.2	3529.3	3522.2	3509.8	3504.5	3492.1	3483.2	3477.9
10°	3552.3	3538.1	3522.2	3502.7	3490.3	3476.2	3461.9	3451.4	3435.4	3426.5	3419.4
12.5°	3525.7	3504.5	3490.3	3469.0	3447.8	3435.4	3415.9	3403.5	3387.6	3369.8	3359.2
15°	3501.0	3477.9	3458.4	3435.4	3412.3	3398.2	3375.2	3361.0	3338.0	3320.2	3307.8
17.5°	3463.8	3444.2	3423.0	3394.6	3373.4	3355.7	3330.8	3313.2	3291.9	3268.8	3256.4
20°	3424.7	3401.7	3380.5	3352.1	3330.8	3309.6	3284.8	3265.3	3240.5	3219.2	3205.1
22.5°	3373.4	3346.8	3329.1	3300.7	3275.9	3252.9	3229.9	3206.8	3183.8	3166.1	3150.1
25°	3298.9	3270.6	3251.1	3228.1	3205.1	3187.4	3159.0	3144.9	3121.8	3105.8	3089.9
27.5°	3192.6	3171.4	3153.7	3130.6	3111.2	3097.0	3075.7	3061.6	3042.0	3027.9	3015.5
30°	3036.8	3019.1	3003.1	2980.0	2965.9	2953.5	2934.0	2921.6	2907.4	2891.4	2887.9
32.5°	2827.7	2813.5	2797.6	2781.6	2771.0	2763.9	2747.9	2740.8	2726.7	2717.8	2709.0
35°	2512.3	2499.9	2491.1	2484.0	2480.4	2482.2	2478.7	2485.8	2489.3	2487.5	2489.3
37.5°	2099.5	2092.4	2096.0	2101.3	2119.0	2142.1	2163.3	2195.1	2216.4	2237.7	2257.2
40°	1638.9	1644.2	1658.3	1690.2	1736.3	1787.7	1835.5	1895.8	1956.0	1998.5	2037.5
42.5°	1236.7	1252.6	1288.0	1334.1	1403.2	1479.4	1553.8	1642.4	1715.1	1785.9	1835.5
45°	930.2	951.4	997.5	1061.3	1137.4	1226.0	1320.0	1419.1	1506.0	1578.6	1633.5
47.5°	724.7	744.1	790.2	857.5	951.4	1043.6	1141.0	1243.8	1334.1	1405.0	1452.8
50°	572.2	597.0	637.8	708.7	802.6	900.1	1001.1	1102.0	1187.1	1247.3	1289.8
52.5°	450.0	473.1	512.0	586.5	682.1	779.6	873.4	972.7	1047.1	1105.6	1133.9
55°	349.0	370.3	411.0	473.1	563.4	659.1	753.0	838.1	907.1	949.6	976.3
57.5°	265.7	281.7	310.1	372.1	453.6	542.1	621.9	706.9	760.1	790.2	807.9
60°	202.0	214.4	244.5	292.4	366.7	443.0	510.3	574.1	616.6	641.4	659.1
62.5°	152.3	166.6	187.8	228.5	285.2	347.3	403.9	451.8	487.2	503.2	515.6
65°	104.5	115.1	131.1	163.0	210.8	255.1	299.4	334.9	357.9	375.6	382.7
67.5°	78.0	85.0	93.9	118.7	152.3	187.8	217.9	242.7	267.6	274.6	287.0
70°	58.5	63.8	72.6	90.4	109.8	134.6	159.5	173.6	191.4	203.8	207.3
72.5°	37.2	38.9	47.8	58.5	74.4	90.4	106.3	118.7	129.4	136.4	139.9
75°	21.3	31.9	31.9	42.5	53.2	60.2	70.9	79.7	85.0	90.4	90.4
77.5°	14.1	19.5	21.3	26.5	31.9	40.8	49.6	54.9	60.2	62.0	62.0
80°	12.4	14.1	14.1	19.5	23.0	30.1	35.4	37.2	40.8	42.5	46.1
82.5°	5.3	7.1	8.8	14.1	16.0	16.0	21.3	23.0	26.5	28.4	28.4
85°	1.8	3.6	3.6	5.3	8.8	10.6	12.4	14.1	16.0	16.0	17.7
87.5°	1.8	1.8	0.0	1.8	3.6	3.6	7.1	7.1	7.1	10.6	10.6
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: P248751

CATALOG NUMBER: LD8B80D010 ER8B809730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5
2.5°	3596.6	3598.4	3591.3	3589.6	3586.0	3587.7	3591.3
5°	3531.1	3532.8	3525.7	3518.7	3518.7	3516.9	3518.7
7.5°	3469.0	3470.8	3460.2	3456.6	3449.5	3451.4	3451.4
10°	3407.0	3407.0	3391.1	3389.3	3384.0	3382.2	3382.2
12.5°	3346.8	3341.5	3329.1	3322.0	3325.6	3314.9	3314.9
15°	3293.6	3284.8	3268.8	3263.5	3254.7	3251.1	3251.1
17.5°	3238.7	3231.6	3217.5	3206.8	3196.2	3194.4	3196.2
20°	3185.5	3178.5	3160.8	3153.7	3144.9	3144.9	3141.3
22.5°	3132.4	3125.3	3109.4	3104.1	3091.7	3091.7	3093.4
25°	3077.5	3072.1	3054.4	3050.9	3049.2	3042.0	3045.6
27.5°	3003.1	2999.5	2985.4	2980.0	2973.0	2971.2	2974.7
30°	2866.6	2861.3	2850.7	2845.4	2833.0	2834.8	2838.3
32.5°	2696.6	2689.5	2675.3	2670.0	2659.4	2655.8	2657.6
35°	2484.0	2478.7	2466.3	2466.3	2455.6	2452.1	2455.6
37.5°	2267.8	2273.1	2267.8	2273.1	2267.8	2266.0	2267.8
40°	2064.1	2083.6	2087.1	2106.6	2099.5	2110.1	2108.4
42.5°	1869.2	1901.0	1913.5	1929.4	1925.9	1933.0	1938.3
45°	1672.5	1699.1	1711.5	1722.1	1723.9	1727.5	1729.2
47.5°	1486.4	1507.7	1509.5	1521.9	1520.1	1520.1	1525.5
50°	1312.9	1327.0	1330.5	1339.4	1332.4	1328.8	1330.5
52.5°	1151.6	1165.8	1162.2	1165.8	1157.0	1153.4	1155.1
55°	986.8	993.9	993.9	993.9	983.3	983.3	983.3
57.5°	818.5	820.3	816.8	818.5	816.8	806.1	804.4
60°	664.4	664.4	662.6	664.4	659.1	653.8	653.8
62.5°	519.1	522.7	529.7	522.7	519.1	522.7	517.3
65°	388.0	395.1	393.3	396.9	395.1	395.1	391.5
67.5°	292.4	294.1	295.9	297.7	297.7	297.7	297.7
70°	214.4	219.7	217.9	217.9	217.9	217.9	228.5
72.5°	143.5	150.6	148.8	152.3	152.3	155.9	152.3
75°	97.4	104.5	101.0	106.3	104.5	101.0	109.8
77.5°	65.6	69.1	70.9	72.6	70.9	69.1	70.9
80°	46.1	49.6	47.8	49.6	49.6	49.6	51.4
82.5°	28.4	33.7	31.9	33.7	31.9	33.7	33.7
85°	19.5	21.3	17.7	21.3	19.5	19.5	23.0
87.5°	12.4	10.6	10.6	12.4	10.6	12.4	10.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)