

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: P248659

Luminaire Tested: **LD8B60D010 ER8B60830 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248659
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: LD8B60D010 ER8B60830 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5946.0 lumens
Efficiency: N/A
Efficacy: 99.9 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

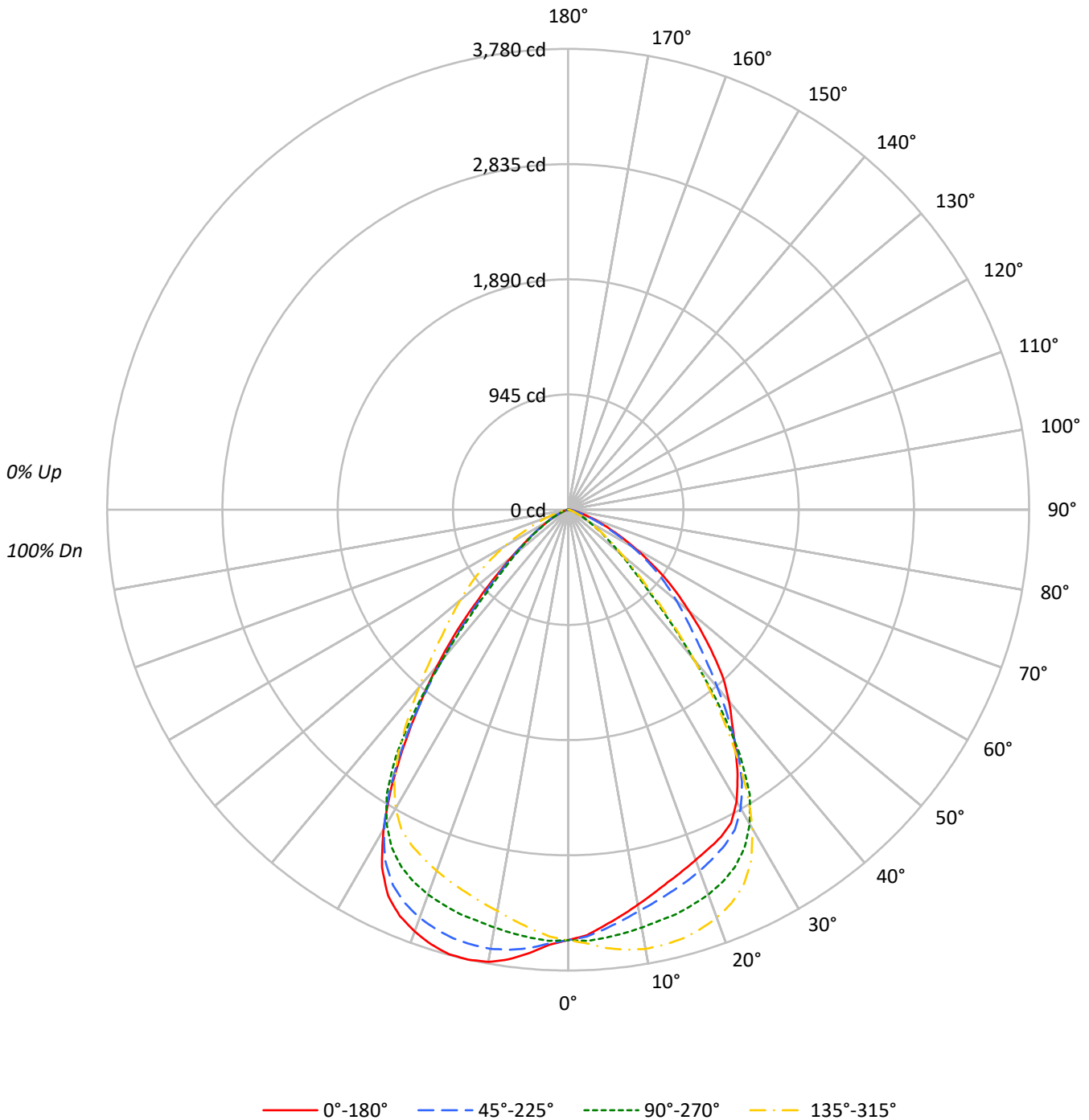
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	108852	108852	108852	108852
5°	105959	109107	113001	109107
10°	103029	108963	117924	108963
15°	100970	109611	120504	109611
20°	100284	110237	120813	110237
25°	100810	110017	118873	110017
30°	98317	105987	107892	105987
35°	89928	92458	87722	92458
40°	82565	64318	67164	64318
45°	73364	39235	45401	39235
50°	62096	26208	29105	26208
55°	51428	17886	18903	17886
60°	39224	11903	12008	11903
65°	27792	7421	6793	7421
70°	20042	4968	4508	4968
75°	12724	2466	2049	2466
80°	8879	1847	1527	1847
85°	7925	0	601	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.0	5.7
10°-20°	972.9	16.4
20°-30°	1473.3	24.8
30°-40°	1476.6	24.8
40°-50°	927.2	15.6
50°-60°	494.1	8.3
60°-70°	203.2	3.4
70°-80°	53.7	0.9
80°-90°	9.1	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°	2782.2	46.8
0°-40°	4258.7	71.6
0°-60°	5680.0	95.5
0°-90°	5946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5946.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3530	3530	3530	3530	3530	
5°	3423	3525	3651	3525	3423	323
15°	3163	3434	3775	3434	3163	895
25°	2963	3234	3494	3234	2963	1359
35°	2389	2456	2330	2456	2389	1497
45°	1682	900	1041	900	1682	1294
55°	957	333	352	333	957	853
65°	381	102	93	102	381	395
75°	107	21	17	21	107	121
85°	22	0	2	0	22	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°	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0
2.5°	3493.8	3490.3	3488.6	3492.1	3493.8	3500.7	3498.9	3502.4	3502.4	3504.1	3507.5
5°	3423.1	3421.3	3423.1	3423.1	3430.0	3436.9	3435.2	3440.3	3443.8	3452.4	3455.8
7.5°	3357.6	3357.6	3355.9	3362.7	3366.2	3376.6	3374.8	3383.4	3388.6	3397.2	3409.3
10°	3290.4	3290.4	3292.1	3297.3	3299.0	3314.5	3314.5	3326.6	3333.4	3342.1	3357.6
12.5°	3224.9	3224.9	3235.2	3231.8	3238.7	3250.7	3255.9	3268.0	3278.3	3295.5	3311.1
15°	3162.8	3162.8	3166.3	3174.9	3180.0	3195.6	3204.2	3218.0	3230.1	3247.3	3269.7
17.5°	3109.4	3107.7	3109.4	3119.7	3130.1	3143.9	3150.7	3168.0	3180.0	3202.5	3223.2
20°	3056.0	3059.4	3059.4	3068.0	3074.9	3092.1	3099.0	3118.0	3131.8	3152.5	3176.6
22.5°	3009.4	3007.7	3007.7	3019.8	3025.0	3040.4	3047.3	3064.6	3080.1	3097.3	3119.7
25°	2962.9	2959.4	2966.4	2968.1	2971.5	2988.7	2993.9	3006.0	3021.5	3037.0	3059.4
27.5°	2893.9	2890.5	2892.2	2899.1	2904.3	2918.0	2921.5	2933.6	2945.6	2959.4	2978.4
30°	2761.2	2757.8	2756.1	2768.1	2773.3	2783.6	2788.8	2809.5	2812.9	2828.4	2842.2
32.5°	2585.4	2583.7	2587.2	2597.4	2602.6	2616.5	2623.3	2635.4	2644.0	2652.6	2666.4
35°	2388.9	2385.5	2388.9	2399.3	2399.3	2411.4	2416.5	2421.6	2419.9	2421.6	2418.2
37.5°	2206.3	2204.5	2206.3	2211.4	2206.3	2211.4	2206.3	2195.9	2177.0	2156.2	2135.5
40°	2051.1	2052.8	2042.5	2049.4	2030.4	2027.0	2008.0	1982.1	1944.3	1902.9	1844.3
42.5°	1885.7	1880.5	1873.6	1877.0	1861.5	1849.4	1818.4	1785.7	1737.4	1668.5	1597.8
45°	1682.3	1680.6	1677.1	1675.4	1665.0	1653.0	1627.1	1589.2	1535.8	1465.1	1380.6
47.5°	1484.0	1478.9	1478.9	1480.6	1468.5	1466.8	1446.1	1413.4	1366.8	1297.9	1210.0
50°	1294.4	1292.7	1296.2	1303.1	1294.4	1291.0	1277.2	1254.8	1213.4	1154.8	1072.1
52.5°	1123.8	1122.1	1125.5	1134.1	1130.7	1134.1	1120.4	1103.1	1075.5	1018.6	946.3
55°	956.6	956.6	956.6	966.9	966.9	966.9	960.0	949.7	923.8	882.5	815.3
57.5°	782.5	784.2	794.6	796.3	794.6	798.1	796.3	785.9	768.8	739.5	687.7
60°	636.0	636.0	641.2	646.4	644.6	646.4	646.4	641.2	624.0	599.8	558.5
62.5°	503.3	508.5	505.0	508.5	515.3	508.5	505.0	501.6	489.5	474.0	439.5
65°	380.9	384.4	384.4	386.1	382.6	384.4	377.5	372.3	365.4	348.2	325.8
67.5°	289.6	289.6	289.6	289.6	287.8	286.1	284.4	279.2	267.2	260.3	236.1
70°	222.3	212.0	212.0	212.0	212.0	213.8	208.6	201.7	198.2	186.2	168.9
72.5°	148.2	151.7	148.2	148.2	144.8	146.5	139.6	136.1	132.7	125.9	115.5
75°	106.8	98.3	101.7	103.4	98.3	101.7	94.8	87.9	87.9	82.7	77.5
77.5°	69.0	67.3	69.0	70.7	69.0	67.3	63.8	60.3	60.3	58.6	53.4
80°	50.0	48.2	48.2	48.2	46.5	48.2	44.8	44.8	41.4	39.7	36.2
82.5°	32.8	32.8	31.0	32.8	31.0	32.8	27.6	27.6	27.6	25.8	22.4
85°	22.4	18.9	18.9	20.7	17.2	20.7	18.9	17.2	15.5	15.5	13.8
87.5°	10.4	12.1	10.4	12.1	10.4	10.4	12.1	10.4	10.4	6.9	6.9
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°	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0
2.5°	3512.7	3514.4	3514.4	3521.4	3524.8	3526.5	3526.5	3540.3	3535.1	3538.6	3542.0
5°	3462.8	3473.1	3476.5	3476.5	3495.5	3502.4	3509.2	3524.8	3526.5	3536.8	3548.9
7.5°	3414.5	3426.5	3433.5	3448.9	3461.0	3473.1	3493.8	3504.1	3514.4	3528.2	3543.7
10°	3367.9	3381.7	3395.5	3407.6	3426.5	3442.1	3455.8	3479.9	3492.1	3511.0	3531.7
12.5°	3323.1	3342.1	3354.1	3374.8	3395.5	3409.3	3430.0	3452.4	3471.4	3490.3	3514.4
15°	3283.5	3305.9	3319.7	3342.1	3364.5	3383.4	3405.9	3433.5	3447.2	3469.6	3492.1
17.5°	3240.4	3264.5	3281.8	3302.4	3330.0	3350.7	3369.7	3397.2	3414.5	3438.6	3464.5
20°	3195.6	3219.7	3240.4	3261.1	3288.7	3309.3	3331.7	3359.3	3378.3	3402.4	3423.1
22.5°	3142.2	3164.6	3186.9	3211.1	3238.7	3255.9	3281.8	3305.9	3326.6	3349.0	3369.7
25°	3073.2	3100.8	3118.0	3140.4	3162.8	3181.8	3209.4	3233.5	3250.7	3271.4	3290.4
27.5°	2992.2	3012.9	3026.7	3045.6	3068.0	3085.3	3105.9	3130.1	3147.3	3166.3	3180.0
30°	2854.3	2873.3	2885.3	2899.1	2921.5	2937.1	2954.3	2976.6	2988.7	3002.5	3014.6
32.5°	2673.3	2688.8	2695.7	2706.1	2721.6	2737.1	2750.9	2769.8	2775.0	2783.6	2783.6
35°	2411.4	2414.8	2413.1	2416.5	2423.4	2432.0	2444.1	2456.1	2463.0	2463.0	2457.9
37.5°	2104.5	2083.9	2061.5	2044.2	2039.0	2035.6	2042.5	2047.6	2054.6	2058.0	2049.4
40°	1785.7	1739.2	1689.1	1644.3	1613.3	1599.5	1594.4	1597.8	1597.8	1609.8	1609.8
42.5°	1511.6	1439.2	1365.1	1297.9	1253.0	1218.6	1203.1	1203.1	1204.8	1213.4	1218.6
45°	1284.1	1192.7	1106.5	1032.5	970.4	925.6	904.9	899.7	898.0	901.4	913.5
47.5°	1110.0	1015.2	925.6	834.2	768.8	723.9	705.0	698.0	691.1	698.0	699.8
50°	973.9	875.6	780.8	689.4	620.5	580.8	556.7	546.3	544.6	544.6	548.1
52.5°	849.7	758.4	663.6	570.5	498.1	460.2	437.8	432.6	425.7	432.6	432.6
55°	732.5	641.2	548.1	460.2	399.8	360.3	339.5	332.7	329.2	334.4	334.4
57.5°	605.0	527.4	441.3	362.0	301.7	274.1	258.5	249.9	248.2	251.6	248.2
60°	496.4	430.9	356.8	284.4	237.9	208.6	196.5	193.0	189.6	193.0	193.0
62.5°	393.0	337.8	277.5	222.3	182.7	162.0	148.2	148.2	146.5	146.5	148.2
65°	291.3	248.2	205.1	158.6	127.6	112.0	101.7	101.7	100.0	101.7	100.0
67.5°	212.0	182.7	148.2	115.5	91.4	82.7	75.8	70.7	74.1	70.7	69.0
70°	155.2	131.0	106.8	87.9	70.7	62.1	56.9	55.1	51.7	51.7	51.7
72.5°	103.4	87.9	72.4	56.9	46.5	37.9	36.2	32.8	29.3	31.0	34.5
75°	69.0	58.6	51.7	41.4	31.0	31.0	20.7	20.7	17.2	20.7	15.5
77.5°	48.2	39.7	31.0	25.8	20.7	18.9	13.8	13.8	12.1	12.1	12.1
80°	34.5	29.3	22.4	18.9	13.8	13.8	12.1	10.4	8.6	8.6	10.4
82.5°	20.7	15.5	15.5	13.8	8.6	6.9	5.2	6.9	3.5	3.5	3.5
85°	12.1	10.4	8.6	5.2	3.5	3.5	1.7	0.0	1.7	1.7	0.0
87.5°	6.9	3.5	3.5	1.7	0.0	1.7	1.7	0.0	0.0	0.0	3.5
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°	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0
2.5°	3550.7	3548.9	3552.4	3552.4	3562.7	3561.0	3566.1	3566.1	3562.7	3564.4	3571.3
5°	3562.7	3567.9	3578.2	3586.8	3602.3	3609.3	3617.9	3626.5	3628.2	3633.4	3638.6
7.5°	3562.7	3580.0	3592.0	3607.5	3628.2	3640.3	3659.2	3674.8	3681.6	3690.2	3700.6
10°	3555.8	3573.0	3595.4	3612.7	3638.6	3657.5	3676.5	3700.6	3710.9	3724.7	3738.5
12.5°	3542.0	3561.0	3585.1	3607.5	3636.8	3654.0	3678.2	3700.6	3716.1	3735.1	3750.6
15°	3521.4	3543.7	3566.1	3588.6	3619.6	3640.3	3662.7	3688.5	3704.1	3724.7	3738.5
17.5°	3488.6	3512.7	3533.4	3554.1	3583.4	3607.5	3628.2	3652.3	3667.9	3685.1	3704.1
20°	3448.9	3471.4	3493.8	3511.0	3540.3	3561.0	3583.4	3605.8	3617.9	3621.3	3650.6
22.5°	3399.0	3414.5	3431.7	3459.3	3476.5	3495.5	3516.2	3536.8	3548.9	3567.9	3578.2
25°	3316.2	3331.7	3350.7	3362.7	3383.4	3399.0	3419.6	3442.1	3448.9	3462.8	3473.1
27.5°	3200.8	3209.4	3218.0	3228.3	3240.4	3249.0	3261.1	3271.4	3278.3	3285.2	3292.1
30°	3018.0	3018.0	3018.0	3011.1	3016.3	3021.5	3023.2	3021.5	3021.5	3019.8	3019.8
32.5°	2776.7	2763.0	2747.4	2733.7	2728.5	2721.6	2718.1	2712.9	2704.4	2699.2	2700.9
35°	2450.9	2419.9	2401.0	2383.8	2370.0	2359.6	2354.5	2349.3	2347.6	2340.7	2333.7
37.5°	2044.2	2021.8	2008.0	1997.7	1985.6	1975.3	1977.0	1978.7	1983.8	1980.4	1982.1
40°	1613.3	1608.1	1613.3	1601.2	1597.8	1601.2	1609.8	1622.0	1628.8	1635.7	1647.8
42.5°	1227.2	1235.8	1247.9	1247.9	1253.0	1260.0	1270.3	1289.3	1299.6	1311.6	1325.5
45°	923.8	934.2	949.7	954.9	958.3	966.9	979.0	994.5	1001.4	1011.8	1023.8
47.5°	711.9	718.7	727.3	736.0	744.6	748.0	760.1	760.1	768.8	775.6	779.0
50°	555.0	561.9	568.8	573.9	577.4	582.6	586.0	591.2	592.9	596.4	598.1
52.5°	434.3	443.0	443.0	446.4	451.6	456.7	455.0	456.7	458.4	458.4	463.6
55°	339.5	339.5	344.7	344.7	348.2	346.4	348.2	348.2	348.2	348.2	349.9
57.5°	253.3	255.1	260.3	256.8	255.1	258.5	255.1	258.5	256.8	260.3	255.1
60°	194.7	194.7	196.5	196.5	198.2	198.2	198.2	196.5	196.5	194.7	194.7
62.5°	146.5	148.2	150.0	148.2	148.2	148.2	146.5	146.5	144.8	143.0	143.0
65°	98.3	96.6	100.0	96.6	98.3	98.3	96.6	98.3	93.1	94.8	93.1
67.5°	70.7	69.0	67.3	69.0	67.3	65.5	65.5	67.3	69.0	63.8	63.8
70°	46.5	48.2	46.5	48.2	50.0	50.0	48.2	46.5	48.2	44.8	46.5
72.5°	29.3	29.3	29.3	29.3	29.3	31.0	31.0	31.0	27.6	27.6	25.8
75°	13.8	18.9	15.5	13.8	18.9	18.9	17.2	17.2	15.5	15.5	15.5
77.5°	13.8	10.4	10.4	10.4	10.4	10.4	10.4	10.4	8.6	10.4	8.6
80°	6.9	6.9	6.9	5.2	6.9	6.9	8.6	6.9	6.9	5.2	8.6
82.5°	3.5	3.5	3.5	0.0	1.7	3.5	3.5	1.7	3.5	3.5	1.7
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: P248659

CATALOG NUMBER: LD8B60D010 ER8B60830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0
2.5°	3569.6	3567.9	3569.6	3571.3	3569.6	3567.9	3569.6	3571.3	3564.4	3562.7	3566.1
5°	3645.5	3645.5	3648.9	3650.6	3648.9	3645.5	3645.5	3638.6	3633.4	3628.2	3626.5
7.5°	3710.9	3714.4	3717.8	3719.5	3717.8	3714.4	3710.9	3700.6	3690.2	3681.6	3674.8
10°	3750.6	3755.8	3762.7	3766.1	3762.7	3755.8	3750.6	3738.5	3724.7	3710.9	3700.6
12.5°	3767.8	3773.0	3781.6	3779.9	3781.6	3773.0	3767.8	3750.6	3735.1	3716.1	3700.6
15°	3755.8	3762.7	3771.2	3774.7	3771.2	3762.7	3755.8	3738.5	3724.7	3704.1	3688.5
17.5°	3717.8	3728.2	3733.4	3738.5	3733.4	3728.2	3717.8	3704.1	3685.1	3667.9	3652.3
20°	3666.1	3673.0	3679.9	3681.6	3679.9	3673.0	3666.1	3650.6	3621.3	3617.9	3605.8
22.5°	3592.0	3597.2	3612.7	3607.5	3612.7	3597.2	3592.0	3578.2	3567.9	3548.9	3536.8
25°	3485.1	3490.3	3492.1	3493.8	3492.1	3490.3	3485.1	3473.1	3462.8	3448.9	3442.1
27.5°	3300.7	3300.7	3304.1	3305.9	3304.1	3300.7	3300.7	3292.1	3285.2	3278.3	3271.4
30°	3021.5	3021.5	3021.5	3030.1	3021.5	3021.5	3021.5	3019.8	3019.8	3021.5	3021.5
32.5°	2699.2	2695.7	2692.3	2695.7	2692.3	2695.7	2699.2	2700.9	2699.2	2704.4	2712.9
35°	2333.7	2332.0	2337.2	2330.3	2337.2	2332.0	2333.7	2333.7	2340.7	2347.6	2349.3
37.5°	1983.8	1980.4	1987.3	1980.4	1987.3	1980.4	1983.8	1982.1	1980.4	1983.8	1978.7
40°	1651.3	1654.7	1654.7	1668.5	1654.7	1654.7	1651.3	1647.8	1635.7	1628.8	1622.0
42.5°	1332.4	1342.7	1339.2	1349.6	1339.2	1342.7	1332.4	1325.5	1311.6	1299.6	1289.3
45°	1030.7	1037.6	1037.6	1041.1	1037.6	1037.6	1030.7	1023.8	1011.8	1001.4	994.5
47.5°	791.1	791.1	791.1	792.9	791.1	791.1	791.1	779.0	775.6	768.8	760.1
50°	601.5	603.2	605.0	606.7	605.0	603.2	601.5	598.1	596.4	592.9	591.2
52.5°	461.9	463.6	460.2	463.6	460.2	463.6	461.9	463.6	458.4	458.4	456.7
55°	349.9	348.2	349.9	351.6	349.9	348.2	349.9	349.9	348.2	348.2	348.2
57.5°	256.8	253.3	253.3	253.3	253.3	253.3	256.8	255.1	260.3	256.8	258.5
60°	191.3	193.0	193.0	194.7	193.0	193.0	191.3	194.7	194.7	196.5	196.5
62.5°	141.3	146.5	143.0	146.5	143.0	146.5	141.3	143.0	143.0	144.8	146.5
65°	91.4	91.4	91.4	93.1	91.4	91.4	91.4	93.1	94.8	93.1	98.3
67.5°	62.1	63.8	67.3	65.5	67.3	63.8	62.1	63.8	63.8	69.0	67.3
70°	50.0	44.8	44.8	50.0	44.8	44.8	50.0	46.5	44.8	48.2	46.5
72.5°	29.3	25.8	29.3	29.3	29.3	25.8	29.3	25.8	27.6	27.6	31.0
75°	15.5	13.8	12.1	17.2	12.1	13.8	15.5	15.5	15.5	15.5	17.2
77.5°	10.4	8.6	12.1	12.1	12.1	8.6	10.4	8.6	10.4	8.6	10.4
80°	5.2	6.9	5.2	8.6	5.2	6.9	5.2	8.6	5.2	6.9	6.9
82.5°	1.7	3.5	3.5	3.5	3.5	3.5	1.7	1.7	3.5	3.5	1.7
85°	0.0	3.5	1.7	1.7	1.7	3.5	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.0	0.0	1.7	0.0	0.0	1.7	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: P248659

CATALOG NUMBER: LD8B60D010 ER8B60830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0
2.5°	3566.1	3561.0	3562.7	3552.4	3552.4	3548.9	3550.7	3542.0	3538.6	3535.1	3540.3
5°	3617.9	3609.3	3602.3	3586.8	3578.2	3567.9	3562.7	3548.9	3536.8	3526.5	3524.8
7.5°	3659.2	3640.3	3628.2	3607.5	3592.0	3580.0	3562.7	3543.7	3528.2	3514.4	3504.1
10°	3676.5	3657.5	3638.6	3612.7	3595.4	3573.0	3555.8	3531.7	3511.0	3492.1	3479.9
12.5°	3678.2	3654.0	3636.8	3607.5	3585.1	3561.0	3542.0	3514.4	3490.3	3471.4	3452.4
15°	3662.7	3640.3	3619.6	3588.6	3566.1	3543.7	3521.4	3492.1	3469.6	3447.2	3433.5
17.5°	3628.2	3607.5	3583.4	3554.1	3533.4	3512.7	3488.6	3464.5	3438.6	3414.5	3397.2
20°	3583.4	3561.0	3540.3	3511.0	3493.8	3471.4	3448.9	3423.1	3402.4	3378.3	3359.3
22.5°	3516.2	3495.5	3476.5	3459.3	3431.7	3414.5	3399.0	3369.7	3349.0	3326.6	3305.9
25°	3419.6	3399.0	3383.4	3362.7	3350.7	3331.7	3316.2	3290.4	3271.4	3250.7	3233.5
27.5°	3261.1	3249.0	3240.4	3228.3	3218.0	3209.4	3200.8	3180.0	3166.3	3147.3	3130.1
30°	3023.2	3021.5	3016.3	3011.1	3018.0	3018.0	3018.0	3014.6	3002.5	2988.7	2976.6
32.5°	2718.1	2721.6	2728.5	2733.7	2747.4	2763.0	2776.7	2783.6	2783.6	2775.0	2769.8
35°	2354.5	2359.6	2370.0	2383.8	2401.0	2419.9	2450.9	2457.9	2463.0	2463.0	2456.1
37.5°	1977.0	1975.3	1985.6	1997.7	2008.0	2021.8	2044.2	2049.4	2058.0	2054.6	2047.6
40°	1609.8	1601.2	1597.8	1601.2	1613.3	1608.1	1613.3	1609.8	1609.8	1597.8	1597.8
42.5°	1270.3	1260.0	1253.0	1247.9	1247.9	1235.8	1227.2	1218.6	1213.4	1204.8	1203.1
45°	979.0	966.9	958.3	954.9	949.7	934.2	923.8	913.5	901.4	898.0	899.7
47.5°	760.1	748.0	744.6	736.0	727.3	718.7	711.9	699.8	698.0	691.1	698.0
50°	586.0	582.6	577.4	573.9	568.8	561.9	555.0	548.1	544.6	544.6	546.3
52.5°	455.0	456.7	451.6	446.4	443.0	443.0	434.3	432.6	432.6	425.7	432.6
55°	348.2	346.4	348.2	344.7	344.7	339.5	339.5	334.4	334.4	329.2	332.7
57.5°	255.1	258.5	255.1	256.8	260.3	255.1	253.3	248.2	251.6	248.2	249.9
60°	198.2	198.2	198.2	196.5	196.5	194.7	194.7	193.0	193.0	189.6	193.0
62.5°	146.5	148.2	148.2	148.2	150.0	148.2	146.5	148.2	146.5	146.5	148.2
65°	96.6	98.3	98.3	96.6	100.0	96.6	98.3	100.0	101.7	100.0	101.7
67.5°	65.5	65.5	67.3	69.0	67.3	69.0	70.7	69.0	70.7	74.1	70.7
70°	48.2	50.0	50.0	48.2	46.5	48.2	46.5	51.7	51.7	51.7	55.1
72.5°	31.0	31.0	29.3	29.3	29.3	29.3	29.3	34.5	31.0	29.3	32.8
75°	17.2	18.9	18.9	13.8	15.5	18.9	13.8	15.5	20.7	17.2	20.7
77.5°	10.4	10.4	10.4	10.4	10.4	10.4	13.8	12.1	12.1	12.1	13.8
80°	8.6	6.9	6.9	5.2	6.9	6.9	6.9	10.4	8.6	8.6	10.4
82.5°	3.5	3.5	1.7	0.0	3.5	3.5	3.5	3.5	3.5	3.5	6.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	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: P248659

CATALOG NUMBER: LD8B60D010 ER8B60830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0
2.5°	3526.5	3526.5	3524.8	3521.4	3514.4	3514.4	3512.7	3507.5	3504.1	3502.4	3502.4
5°	3509.2	3502.4	3495.5	3476.5	3476.5	3473.1	3462.8	3455.8	3452.4	3443.8	3440.3
7.5°	3493.8	3473.1	3461.0	3448.9	3433.5	3426.5	3414.5	3409.3	3397.2	3388.6	3383.4
10°	3455.8	3442.1	3426.5	3407.6	3395.5	3381.7	3367.9	3357.6	3342.1	3333.4	3326.6
12.5°	3430.0	3409.3	3395.5	3374.8	3354.1	3342.1	3323.1	3311.1	3295.5	3278.3	3268.0
15°	3405.9	3383.4	3364.5	3342.1	3319.7	3305.9	3283.5	3269.7	3247.3	3230.1	3218.0
17.5°	3369.7	3350.7	3330.0	3302.4	3281.8	3264.5	3240.4	3223.2	3202.5	3180.0	3168.0
20°	3331.7	3309.3	3288.7	3261.1	3240.4	3219.7	3195.6	3176.6	3152.5	3131.8	3118.0
22.5°	3281.8	3255.9	3238.7	3211.1	3186.9	3164.6	3142.2	3119.7	3097.3	3080.1	3064.6
25°	3209.4	3181.8	3162.8	3140.4	3118.0	3100.8	3073.2	3059.4	3037.0	3021.5	3006.0
27.5°	3105.9	3085.3	3068.0	3045.6	3026.7	3012.9	2992.2	2978.4	2959.4	2945.6	2933.6
30°	2954.3	2937.1	2921.5	2899.1	2885.3	2873.3	2854.3	2842.2	2828.4	2812.9	2809.5
32.5°	2750.9	2737.1	2721.6	2706.1	2695.7	2688.8	2673.3	2666.4	2652.6	2644.0	2635.4
35°	2444.1	2432.0	2423.4	2416.5	2413.1	2414.8	2411.4	2418.2	2421.6	2419.9	2421.6
37.5°	2042.5	2035.6	2039.0	2044.2	2061.5	2083.9	2104.5	2135.5	2156.2	2177.0	2195.9
40°	1594.4	1599.5	1613.3	1644.3	1689.1	1739.2	1785.7	1844.3	1902.9	1944.3	1982.1
42.5°	1203.1	1218.6	1253.0	1297.9	1365.1	1439.2	1511.6	1597.8	1668.5	1737.4	1785.7
45°	904.9	925.6	970.4	1032.5	1106.5	1192.7	1284.1	1380.6	1465.1	1535.8	1589.2
47.5°	705.0	723.9	768.8	834.2	925.6	1015.2	1110.0	1210.0	1297.9	1366.8	1413.4
50°	556.7	580.8	620.5	689.4	780.8	875.6	973.9	1072.1	1154.8	1213.4	1254.8
52.5°	437.8	460.2	498.1	570.5	663.6	758.4	849.7	946.3	1018.6	1075.5	1103.1
55°	339.5	360.3	399.8	460.2	548.1	641.2	732.5	815.3	882.5	923.8	949.7
57.5°	258.5	274.1	301.7	362.0	441.3	527.4	605.0	687.7	739.5	768.8	785.9
60°	196.5	208.6	237.9	284.4	356.8	430.9	496.4	558.5	599.8	624.0	641.2
62.5°	148.2	162.0	182.7	222.3	277.5	337.8	393.0	439.5	474.0	489.5	501.6
65°	101.7	112.0	127.6	158.6	205.1	248.2	291.3	325.8	348.2	365.4	372.3
67.5°	75.8	82.7	91.4	115.5	148.2	182.7	212.0	236.1	260.3	267.2	279.2
70°	56.9	62.1	70.7	87.9	106.8	131.0	155.2	168.9	186.2	198.2	201.7
72.5°	36.2	37.9	46.5	56.9	72.4	87.9	103.4	115.5	125.9	132.7	136.1
75°	20.7	31.0	31.0	41.4	51.7	58.6	69.0	77.5	82.7	87.9	87.9
77.5°	13.8	18.9	20.7	25.8	31.0	39.7	48.2	53.4	58.6	60.3	60.3
80°	12.1	13.8	13.8	18.9	22.4	29.3	34.5	36.2	39.7	41.4	44.8
82.5°	5.2	6.9	8.6	13.8	15.5	15.5	20.7	22.4	25.8	27.6	27.6
85°	1.7	3.5	3.5	5.2	8.6	10.4	12.1	13.8	15.5	15.5	17.2
87.5°	1.7	1.7	0.0	1.7	3.5	3.5	6.9	6.9	6.9	10.4	10.4
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: P248659

CATALOG NUMBER: LD8B60D010 ER8B60830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0
2.5°	3498.9	3500.7	3493.8	3492.1	3488.6	3490.3	3493.8
5°	3435.2	3436.9	3430.0	3423.1	3423.1	3421.3	3423.1
7.5°	3374.8	3376.6	3366.2	3362.7	3355.9	3357.6	3357.6
10°	3314.5	3314.5	3299.0	3297.3	3292.1	3290.4	3290.4
12.5°	3255.9	3250.7	3238.7	3231.8	3235.2	3224.9	3224.9
15°	3204.2	3195.6	3180.0	3174.9	3166.3	3162.8	3162.8
17.5°	3150.7	3143.9	3130.1	3119.7	3109.4	3107.7	3109.4
20°	3099.0	3092.1	3074.9	3068.0	3059.4	3059.4	3056.0
22.5°	3047.3	3040.4	3025.0	3019.8	3007.7	3007.7	3009.4
25°	2993.9	2988.7	2971.5	2968.1	2966.4	2959.4	2962.9
27.5°	2921.5	2918.0	2904.3	2899.1	2892.2	2890.5	2893.9
30°	2788.8	2783.6	2773.3	2768.1	2756.1	2757.8	2761.2
32.5°	2623.3	2616.5	2602.6	2597.4	2587.2	2583.7	2585.4
35°	2416.5	2411.4	2399.3	2399.3	2388.9	2385.5	2388.9
37.5°	2206.3	2211.4	2206.3	2211.4	2206.3	2204.5	2206.3
40°	2008.0	2027.0	2030.4	2049.4	2042.5	2052.8	2051.1
42.5°	1818.4	1849.4	1861.5	1877.0	1873.6	1880.5	1885.7
45°	1627.1	1653.0	1665.0	1675.4	1677.1	1680.6	1682.3
47.5°	1446.1	1466.8	1468.5	1480.6	1478.9	1478.9	1484.0
50°	1277.2	1291.0	1294.4	1303.1	1296.2	1292.7	1294.4
52.5°	1120.4	1134.1	1130.7	1134.1	1125.5	1122.1	1123.8
55°	960.0	966.9	966.9	966.9	956.6	956.6	956.6
57.5°	796.3	798.1	794.6	796.3	794.6	784.2	782.5
60°	646.4	646.4	644.6	646.4	641.2	636.0	636.0
62.5°	505.0	508.5	515.3	508.5	505.0	508.5	503.3
65°	377.5	384.4	382.6	386.1	384.4	384.4	380.9
67.5°	284.4	286.1	287.8	289.6	289.6	289.6	289.6
70°	208.6	213.8	212.0	212.0	212.0	212.0	222.3
72.5°	139.6	146.5	144.8	148.2	148.2	151.7	148.2
75°	94.8	101.7	98.3	103.4	101.7	98.3	106.8
77.5°	63.8	67.3	69.0	70.7	69.0	67.3	69.0
80°	44.8	48.2	46.5	48.2	48.2	48.2	50.0
82.5°	27.6	32.8	31.0	32.8	31.0	32.8	32.8
85°	18.9	20.7	17.2	20.7	18.9	18.9	22.4
87.5°	12.1	10.4	10.4	12.1	10.4	12.1	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)