

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: P248868

Luminaire Tested: **LD8B80D010 ER8B80827 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248868
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 ER8B80827 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6000.0 lumens
Efficiency: N/A
Efficacy: 80.6 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

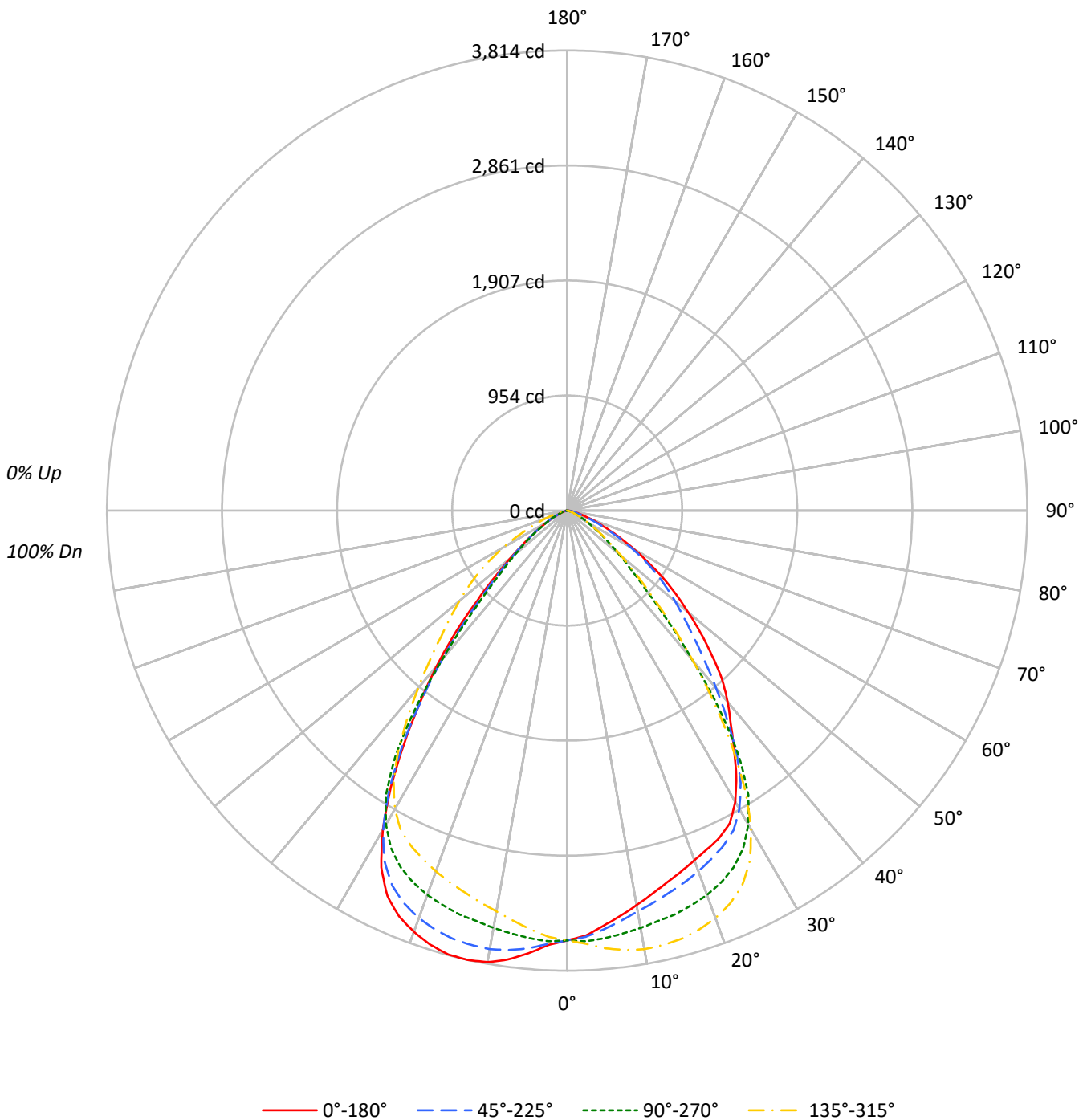
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	109839	109839	109839	109839
5°	106922	110098	114029	110098
10°	103965	109952	118995	109952
15°	101886	110604	121599	110604
20°	101193	111237	121912	111237
25°	101725	111014	119952	111014
30°	99211	106952	108875	106952
35°	90745	93297	88520	93297
40°	83314	64901	67772	64901
45°	74027	39593	45811	39593
50°	62662	26447	29369	26447
55°	51896	18048	19075	18048
60°	39581	12014	12119	12014
65°	28048	7486	6851	7486
70°	20232	5013	4553	5013
75°	12844	2490	2073	2490
80°	8968	1865	1545	1865
85°	7996	0	601	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.0	5.7
10°-20°	981.8	16.4
20°-30°	1486.6	24.8
30°-40°	1490.0	24.8
40°-50°	935.6	15.6
50°-60°	498.6	8.3
60°-70°	205.0	3.4
70°-80°	54.2	0.9
80°-90°	9.2	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°	2807.5	46.8
0°-40°	4297.4	71.6
0°-60°	5731.6	95.5
0°-90°	6000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6000.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3562	3562	3562	3562	3562	
5°	3454	3557	3684	3557	3454	326
15°	3192	3465	3809	3465	3192	903
25°	2990	3263	3526	3263	2990	1371
35°	2411	2478	2352	2478	2411	1510
45°	1698	908	1050	908	1698	1306
55°	965	336	355	336	965	861
65°	384	103	94	103	384	399
75°	108	21	17	21	108	122
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°	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0
2.5°	3525.5	3522.0	3520.3	3523.8	3525.5	3532.4	3530.7	3534.2	3534.2	3536.0	3539.4
5°	3454.2	3452.4	3454.2	3454.2	3461.1	3468.1	3466.4	3471.6	3475.0	3483.8	3487.2
7.5°	3388.1	3388.1	3386.3	3393.3	3396.8	3407.2	3405.4	3414.2	3419.4	3428.1	3440.2
10°	3320.3	3320.3	3322.0	3327.2	3329.0	3344.6	3344.6	3356.8	3363.7	3372.4	3388.1
12.5°	3254.2	3254.2	3264.6	3261.1	3268.1	3280.2	3285.5	3297.6	3308.1	3325.5	3341.2
15°	3191.5	3191.5	3195.0	3203.7	3208.9	3224.6	3233.3	3247.2	3259.4	3276.8	3299.4
17.5°	3137.6	3135.9	3137.6	3148.1	3158.5	3172.4	3179.4	3196.8	3208.9	3231.6	3252.5
20°	3083.7	3087.2	3087.2	3095.9	3102.8	3120.2	3127.2	3146.4	3160.2	3181.1	3205.5
22.5°	3036.8	3035.0	3035.0	3047.2	3052.4	3068.0	3075.0	3092.4	3108.1	3125.5	3148.1
25°	2989.8	2986.3	2993.3	2995.0	2998.5	3015.9	3021.1	3033.2	3048.9	3064.6	3087.2
27.5°	2920.2	2916.8	2918.5	2925.4	2930.7	2944.6	2948.1	2960.2	2972.4	2986.3	3005.5
30°	2786.3	2782.8	2781.1	2793.3	2798.5	2808.9	2814.1	2835.0	2838.5	2854.1	2868.0
32.5°	2608.9	2607.1	2610.7	2621.0	2626.3	2640.2	2647.2	2659.3	2668.0	2676.7	2690.6
35°	2410.6	2407.1	2410.6	2421.1	2421.1	2433.3	2438.5	2443.6	2441.9	2443.6	2440.2
37.5°	2226.3	2224.5	2226.3	2231.4	2226.3	2231.4	2226.3	2215.8	2196.7	2175.8	2154.9
40°	2069.7	2071.4	2061.1	2068.0	2048.8	2045.4	2026.3	2000.1	1961.9	1920.2	1861.0
42.5°	1902.8	1897.6	1890.6	1894.0	1878.4	1866.2	1834.9	1801.9	1753.2	1683.6	1612.3
45°	1697.5	1695.8	1692.3	1690.6	1680.1	1668.0	1641.8	1603.6	1549.7	1478.4	1393.1
47.5°	1497.5	1492.3	1492.3	1494.0	1481.8	1480.1	1459.2	1426.2	1379.2	1309.7	1221.0
50°	1306.2	1304.4	1307.9	1314.9	1306.2	1302.7	1288.8	1266.2	1224.5	1165.3	1081.8
52.5°	1134.0	1132.3	1135.8	1144.4	1140.9	1144.4	1130.5	1113.1	1085.3	1027.9	954.9
55°	965.3	965.3	965.3	975.7	975.7	975.7	968.7	958.4	932.2	890.5	822.7
57.5°	789.6	791.4	801.8	803.5	801.8	805.3	803.5	793.1	775.7	746.2	694.0
60°	641.8	641.8	647.0	652.3	650.5	652.3	652.3	647.0	629.6	605.3	563.6
62.5°	507.9	513.1	509.6	513.1	520.0	513.1	509.6	506.1	494.0	478.3	443.5
65°	384.4	387.9	387.9	389.6	386.1	387.9	380.9	375.7	368.8	351.4	328.7
67.5°	292.2	292.2	292.2	292.2	290.4	288.7	287.0	281.8	269.6	262.7	238.3
70°	224.4	213.9	213.9	213.9	213.9	215.7	210.5	203.5	200.0	187.9	170.5
72.5°	149.6	153.1	149.6	149.6	146.1	147.8	140.9	137.4	133.9	127.0	116.5
75°	107.8	99.2	102.6	104.4	99.2	102.6	95.6	88.7	88.7	83.5	78.2
77.5°	69.6	67.9	69.6	71.3	69.6	67.9	64.4	60.9	60.9	59.1	53.9
80°	50.5	48.7	48.7	48.7	47.0	48.7	45.2	45.2	41.7	40.0	36.5
82.5°	33.1	33.1	31.3	33.1	31.3	33.1	27.8	27.8	27.8	26.1	22.6
85°	22.6	19.1	19.1	20.9	17.4	20.9	19.1	17.4	15.7	15.7	13.9
87.5°	10.5	12.2	10.5	12.2	10.5	10.5	12.2	10.5	10.5	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°	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0
2.5°	3544.6	3546.3	3546.3	3553.3	3556.8	3558.5	3558.5	3572.5	3567.2	3570.7	3574.2
5°	3494.2	3504.6	3508.1	3508.1	3527.2	3534.2	3541.1	3556.8	3558.5	3569.0	3581.1
7.5°	3445.5	3457.6	3464.6	3480.3	3492.4	3504.6	3525.5	3536.0	3546.3	3560.3	3575.9
10°	3398.5	3412.5	3426.3	3438.5	3457.6	3473.3	3487.2	3511.5	3523.8	3542.9	3563.7
12.5°	3353.3	3372.4	3384.6	3405.4	3426.3	3440.2	3461.1	3483.8	3502.9	3522.0	3546.3
15°	3313.3	3335.9	3349.8	3372.4	3395.1	3414.2	3436.8	3464.6	3478.5	3501.2	3523.8
17.5°	3269.8	3294.2	3311.6	3332.4	3360.3	3381.1	3400.3	3428.1	3445.5	3469.8	3495.9
20°	3224.6	3248.9	3269.8	3290.7	3318.5	3339.4	3362.0	3389.8	3409.0	3433.3	3454.2
22.5°	3170.7	3193.3	3215.9	3240.2	3268.1	3285.5	3311.6	3335.9	3356.8	3379.4	3400.3
25°	3101.1	3129.0	3146.4	3168.9	3191.5	3210.6	3238.5	3262.8	3280.2	3301.1	3320.3
27.5°	3019.4	3040.3	3054.2	3073.3	3095.9	3113.3	3134.1	3158.5	3175.9	3195.0	3208.9
30°	2880.2	2899.4	2911.5	2925.4	2948.1	2963.7	2981.1	3003.7	3015.9	3029.8	3042.0
32.5°	2697.6	2713.2	2720.2	2730.6	2746.3	2761.9	2775.9	2795.0	2800.2	2808.9	2808.9
35°	2433.3	2436.7	2435.0	2438.5	2445.4	2454.1	2466.3	2478.4	2485.4	2485.4	2480.2
37.5°	2123.6	2102.8	2080.2	2062.8	2057.6	2054.0	2061.1	2066.2	2073.2	2076.7	2068.0
40°	1801.9	1754.9	1704.5	1659.2	1627.9	1614.1	1608.8	1612.3	1612.3	1624.4	1624.4
42.5°	1525.4	1452.3	1377.5	1309.7	1264.4	1229.7	1214.0	1214.0	1215.7	1224.5	1229.7
45°	1295.8	1203.6	1116.6	1041.8	979.2	934.0	913.1	907.9	906.2	909.6	921.8
47.5°	1120.1	1024.4	934.0	841.8	775.7	730.5	711.4	704.4	697.4	704.4	706.2
50°	982.7	883.6	787.9	695.7	626.1	586.1	561.8	551.3	549.6	549.6	553.1
52.5°	857.4	765.3	669.6	575.7	502.6	464.4	441.8	436.6	429.6	436.6	436.6
55°	739.2	647.0	553.1	464.4	403.5	363.5	342.6	335.7	332.2	337.4	337.4
57.5°	610.5	532.2	445.3	365.2	304.4	276.6	260.9	252.2	250.4	253.9	250.4
60°	500.9	434.8	360.0	287.0	240.0	210.5	198.3	194.8	191.3	194.8	194.8
62.5°	396.5	340.9	280.0	224.4	184.3	163.5	149.6	149.6	147.8	147.8	149.6
65°	293.9	250.4	207.0	160.0	128.7	113.0	102.6	102.6	100.9	102.6	100.9
67.5°	213.9	184.3	149.6	116.5	92.2	83.5	76.5	71.3	74.8	71.3	69.6
70°	156.6	132.2	107.8	88.7	71.3	62.6	57.4	55.6	52.2	52.2	52.2
72.5°	104.4	88.7	73.0	57.4	47.0	38.2	36.5	33.1	29.6	31.3	34.8
75°	69.6	59.1	52.2	41.7	31.3	31.3	20.9	20.9	17.4	20.9	15.7
77.5°	48.7	40.0	31.3	26.1	20.9	19.1	13.9	13.9	12.2	12.2	12.2
80°	34.8	29.6	22.6	19.1	13.9	13.9	12.2	10.5	8.7	8.7	10.5
82.5°	20.9	15.7	15.7	13.9	8.7	6.9	5.2	6.9	3.5	3.5	3.5
85°	12.2	10.5	8.7	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°	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0
2.5°	3582.9	3581.1	3584.6	3584.6	3595.1	3593.3	3598.5	3598.5	3595.1	3596.8	3603.7
5°	3595.1	3600.3	3610.7	3619.4	3635.0	3642.0	3650.7	3659.4	3661.2	3666.4	3671.6
7.5°	3595.1	3612.5	3624.7	3640.3	3661.2	3673.3	3692.4	3708.1	3715.1	3723.7	3734.2
10°	3588.1	3605.5	3628.1	3645.5	3671.6	3690.7	3709.8	3734.2	3744.6	3758.5	3772.5
12.5°	3574.2	3593.3	3617.6	3640.3	3669.8	3687.2	3711.6	3734.2	3749.9	3769.0	3784.7
15°	3553.3	3575.9	3598.5	3621.1	3652.4	3673.3	3696.0	3722.0	3737.7	3758.5	3772.5
17.5°	3520.3	3544.6	3565.5	3586.4	3615.9	3640.3	3661.2	3685.5	3701.2	3718.6	3737.7
20°	3480.3	3502.9	3525.5	3542.9	3572.5	3593.3	3615.9	3638.5	3650.7	3654.2	3683.8
22.5°	3429.9	3445.5	3462.9	3490.7	3508.1	3527.2	3548.1	3569.0	3581.1	3600.3	3610.7
25°	3346.3	3362.0	3381.1	3393.3	3414.2	3429.9	3450.7	3473.3	3480.3	3494.2	3504.6
27.5°	3229.8	3238.5	3247.2	3257.6	3269.8	3278.5	3290.7	3301.1	3308.1	3315.0	3322.0
30°	3045.4	3045.4	3045.4	3038.5	3043.7	3048.9	3050.6	3048.9	3048.9	3047.2	3047.2
32.5°	2801.9	2788.1	2772.4	2758.5	2753.3	2746.3	2742.8	2737.6	2728.9	2723.7	2725.4
35°	2473.2	2441.9	2422.8	2405.4	2391.5	2381.1	2375.8	2370.6	2368.9	2362.0	2354.9
37.5°	2062.8	2040.2	2026.3	2015.8	2003.6	1993.2	1994.9	1996.7	2001.9	1998.4	2000.1
40°	1627.9	1622.7	1627.9	1615.8	1612.3	1615.8	1624.4	1636.7	1643.6	1650.6	1662.7
42.5°	1238.4	1247.0	1259.3	1259.3	1264.4	1271.4	1281.8	1301.0	1311.4	1323.5	1337.5
45°	932.2	942.7	958.4	963.5	967.0	975.7	987.9	1003.5	1010.5	1020.9	1033.1
47.5°	718.3	725.3	733.9	742.7	751.3	754.8	767.0	767.0	775.7	782.7	786.1
50°	560.0	567.0	573.9	579.2	582.7	587.9	591.3	596.6	598.3	601.8	603.5
52.5°	438.3	447.0	447.0	450.4	455.7	460.9	459.2	460.9	462.6	462.6	467.8
55°	342.6	342.6	347.9	347.9	351.4	349.6	351.4	351.4	351.4	351.4	353.1
57.5°	255.6	257.4	262.7	259.2	257.4	260.9	257.4	260.9	259.2	262.7	257.4
60°	196.5	196.5	198.3	198.3	200.0	200.0	200.0	198.3	198.3	196.5	196.5
62.5°	147.8	149.6	151.3	149.6	149.6	149.6	147.8	147.8	146.1	144.3	144.3
65°	99.2	97.4	100.9	97.4	99.2	99.2	97.4	99.2	93.9	95.6	93.9
67.5°	71.3	69.6	67.9	69.6	67.9	66.1	66.1	67.9	69.6	64.4	64.4
70°	47.0	48.7	47.0	48.7	50.5	50.5	48.7	47.0	48.7	45.2	47.0
72.5°	29.6	29.6	29.6	29.6	29.6	31.3	31.3	31.3	27.8	27.8	26.1
75°	13.9	19.1	15.7	13.9	19.1	19.1	17.4	17.4	15.7	15.7	15.7
77.5°	13.9	10.5	10.5	10.5	10.5	10.5	10.5	10.5	8.7	10.5	8.7
80°	6.9	6.9	6.9	5.2	6.9	6.9	8.7	6.9	6.9	5.2	8.7
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: P248868

CATALOG NUMBER: LD8B80D010 ER8B80827 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0
2.5°	3602.0	3600.3	3602.0	3603.7	3602.0	3600.3	3602.0	3603.7	3596.8	3595.1	3598.5
5°	3678.6	3678.6	3682.0	3683.8	3682.0	3678.6	3678.6	3671.6	3666.4	3661.2	3659.4
7.5°	3744.6	3748.1	3751.6	3753.3	3751.6	3748.1	3744.6	3734.2	3723.7	3715.1	3708.1
10°	3784.7	3789.9	3796.8	3800.3	3796.8	3789.9	3784.7	3772.5	3758.5	3744.6	3734.2
12.5°	3802.0	3807.3	3815.9	3814.2	3815.9	3807.3	3802.0	3784.7	3769.0	3749.9	3734.2
15°	3789.9	3796.8	3805.5	3809.0	3805.5	3796.8	3789.9	3772.5	3758.5	3737.7	3722.0
17.5°	3751.6	3762.0	3767.3	3772.5	3767.3	3762.0	3751.6	3737.7	3718.6	3701.2	3685.5
20°	3699.4	3706.4	3713.4	3715.1	3713.4	3706.4	3699.4	3683.8	3654.2	3650.7	3638.5
22.5°	3624.7	3629.9	3645.5	3640.3	3645.5	3629.9	3624.7	3610.7	3600.3	3581.1	3569.0
25°	3516.8	3522.0	3523.8	3525.5	3523.8	3522.0	3516.8	3504.6	3494.2	3480.3	3473.3
27.5°	3330.7	3330.7	3334.1	3335.9	3334.1	3330.7	3330.7	3322.0	3315.0	3308.1	3301.1
30°	3048.9	3048.9	3048.9	3057.7	3048.9	3048.9	3048.9	3047.2	3047.2	3048.9	3048.9
32.5°	2723.7	2720.2	2716.8	2720.2	2716.8	2720.2	2723.7	2725.4	2723.7	2728.9	2737.6
35°	2354.9	2353.2	2358.4	2351.5	2358.4	2353.2	2354.9	2354.9	2362.0	2368.9	2370.6
37.5°	2001.9	1998.4	2005.4	1998.4	2005.4	1998.4	2001.9	2000.1	1998.4	2001.9	1996.7
40°	1666.2	1669.7	1669.7	1683.6	1669.7	1669.7	1666.2	1662.7	1650.6	1643.6	1636.7
42.5°	1344.5	1354.9	1351.4	1361.8	1351.4	1354.9	1344.5	1337.5	1323.5	1311.4	1301.0
45°	1040.1	1047.1	1047.1	1050.5	1047.1	1047.1	1040.1	1033.1	1020.9	1010.5	1003.5
47.5°	798.3	798.3	798.3	800.1	798.3	798.3	798.3	786.1	782.7	775.7	767.0
50°	607.0	608.7	610.5	612.2	610.5	608.7	607.0	603.5	601.8	598.3	596.6
52.5°	466.1	467.8	464.4	467.8	464.4	467.8	466.1	467.8	462.6	462.6	460.9
55°	353.1	351.4	353.1	354.8	353.1	351.4	353.1	353.1	351.4	351.4	351.4
57.5°	259.2	255.6	255.6	255.6	255.6	255.6	259.2	257.4	262.7	259.2	260.9
60°	193.1	194.8	194.8	196.5	194.8	194.8	193.1	196.5	196.5	198.3	198.3
62.5°	142.6	147.8	144.3	147.8	144.3	147.8	142.6	144.3	144.3	146.1	147.8
65°	92.2	92.2	92.2	93.9	92.2	92.2	92.2	93.9	95.6	93.9	99.2
67.5°	62.6	64.4	67.9	66.1	67.9	64.4	62.6	64.4	64.4	69.6	67.9
70°	50.5	45.2	45.2	50.5	45.2	45.2	50.5	47.0	45.2	48.7	47.0
72.5°	29.6	26.1	29.6	29.6	29.6	26.1	29.6	26.1	27.8	27.8	31.3
75°	15.7	13.9	12.2	17.4	12.2	13.9	15.7	15.7	15.7	15.7	17.4
77.5°	10.5	8.7	12.2	12.2	12.2	8.7	10.5	8.7	10.5	8.7	10.5
80°	5.2	6.9	5.2	8.7	5.2	6.9	5.2	8.7	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: P248868

CATALOG NUMBER: LD8B80D010 ER8B80827 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0
2.5°	3598.5	3593.3	3595.1	3584.6	3584.6	3581.1	3582.9	3574.2	3570.7	3567.2	3572.5
5°	3650.7	3642.0	3635.0	3619.4	3610.7	3600.3	3595.1	3581.1	3569.0	3558.5	3556.8
7.5°	3692.4	3673.3	3661.2	3640.3	3624.7	3612.5	3595.1	3575.9	3560.3	3546.3	3536.0
10°	3709.8	3690.7	3671.6	3645.5	3628.1	3605.5	3588.1	3563.7	3542.9	3523.8	3511.5
12.5°	3711.6	3687.2	3669.8	3640.3	3617.6	3593.3	3574.2	3546.3	3522.0	3502.9	3483.8
15°	3696.0	3673.3	3652.4	3621.1	3598.5	3575.9	3553.3	3523.8	3501.2	3478.5	3464.6
17.5°	3661.2	3640.3	3615.9	3586.4	3565.5	3544.6	3520.3	3495.9	3469.8	3445.5	3428.1
20°	3615.9	3593.3	3572.5	3542.9	3525.5	3502.9	3480.3	3454.2	3433.3	3409.0	3389.8
22.5°	3548.1	3527.2	3508.1	3490.7	3462.9	3445.5	3429.9	3400.3	3379.4	3356.8	3335.9
25°	3450.7	3429.9	3414.2	3393.3	3381.1	3362.0	3346.3	3320.3	3301.1	3280.2	3262.8
27.5°	3290.7	3278.5	3269.8	3257.6	3247.2	3238.5	3229.8	3208.9	3195.0	3175.9	3158.5
30°	3050.6	3048.9	3043.7	3038.5	3045.4	3045.4	3045.4	3042.0	3029.8	3015.9	3003.7
32.5°	2742.8	2746.3	2753.3	2758.5	2772.4	2788.1	2801.9	2808.9	2808.9	2800.2	2795.0
35°	2375.8	2381.1	2391.5	2405.4	2422.8	2441.9	2473.2	2480.2	2485.4	2485.4	2478.4
37.5°	1994.9	1993.2	2003.6	2015.8	2026.3	2040.2	2062.8	2068.0	2076.7	2073.2	2066.2
40°	1624.4	1615.8	1612.3	1615.8	1627.9	1622.7	1627.9	1624.4	1624.4	1612.3	1612.3
42.5°	1281.8	1271.4	1264.4	1259.3	1259.3	1247.0	1238.4	1229.7	1224.5	1215.7	1214.0
45°	987.9	975.7	967.0	963.5	958.4	942.7	932.2	921.8	909.6	906.2	907.9
47.5°	767.0	754.8	751.3	742.7	733.9	725.3	718.3	706.2	704.4	697.4	704.4
50°	591.3	587.9	582.7	579.2	573.9	567.0	560.0	553.1	549.6	549.6	551.3
52.5°	459.2	460.9	455.7	450.4	447.0	447.0	438.3	436.6	436.6	429.6	436.6
55°	351.4	349.6	351.4	347.9	347.9	342.6	342.6	337.4	337.4	332.2	335.7
57.5°	257.4	260.9	257.4	259.2	262.7	257.4	255.6	250.4	253.9	250.4	252.2
60°	200.0	200.0	200.0	198.3	198.3	196.5	196.5	194.8	194.8	191.3	194.8
62.5°	147.8	149.6	149.6	149.6	151.3	149.6	147.8	149.6	147.8	147.8	149.6
65°	97.4	99.2	99.2	97.4	100.9	97.4	99.2	100.9	102.6	100.9	102.6
67.5°	66.1	66.1	67.9	69.6	67.9	69.6	71.3	69.6	71.3	74.8	71.3
70°	48.7	50.5	50.5	48.7	47.0	48.7	47.0	52.2	52.2	52.2	55.6
72.5°	31.3	31.3	29.6	29.6	29.6	29.6	29.6	34.8	31.3	29.6	33.1
75°	17.4	19.1	19.1	13.9	15.7	19.1	13.9	15.7	20.9	17.4	20.9
77.5°	10.5	10.5	10.5	10.5	10.5	10.5	13.9	12.2	12.2	12.2	13.9
80°	8.7	6.9	6.9	5.2	6.9	6.9	6.9	10.5	8.7	8.7	10.5
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: P248868

CATALOG NUMBER: LD8B80D010 ER8B80827 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0
2.5°	3558.5	3558.5	3556.8	3553.3	3546.3	3546.3	3544.6	3539.4	3536.0	3534.2	3534.2
5°	3541.1	3534.2	3527.2	3508.1	3508.1	3504.6	3494.2	3487.2	3483.8	3475.0	3471.6
7.5°	3525.5	3504.6	3492.4	3480.3	3464.6	3457.6	3445.5	3440.2	3428.1	3419.4	3414.2
10°	3487.2	3473.3	3457.6	3438.5	3426.3	3412.5	3398.5	3388.1	3372.4	3363.7	3356.8
12.5°	3461.1	3440.2	3426.3	3405.4	3384.6	3372.4	3353.3	3341.2	3325.5	3308.1	3297.6
15°	3436.8	3414.2	3395.1	3372.4	3349.8	3335.9	3313.3	3299.4	3276.8	3259.4	3247.2
17.5°	3400.3	3381.1	3360.3	3332.4	3311.6	3294.2	3269.8	3252.5	3231.6	3208.9	3196.8
20°	3362.0	3339.4	3318.5	3290.7	3269.8	3248.9	3224.6	3205.5	3181.1	3160.2	3146.4
22.5°	3311.6	3285.5	3268.1	3240.2	3215.9	3193.3	3170.7	3148.1	3125.5	3108.1	3092.4
25°	3238.5	3210.6	3191.5	3168.9	3146.4	3129.0	3101.1	3087.2	3064.6	3048.9	3033.2
27.5°	3134.1	3113.3	3095.9	3073.3	3054.2	3040.3	3019.4	3005.5	2986.3	2972.4	2960.2
30°	2981.1	2963.7	2948.1	2925.4	2911.5	2899.4	2880.2	2868.0	2854.1	2838.5	2835.0
32.5°	2775.9	2761.9	2746.3	2730.6	2720.2	2713.2	2697.6	2690.6	2676.7	2668.0	2659.3
35°	2466.3	2454.1	2445.4	2438.5	2435.0	2436.7	2433.3	2440.2	2443.6	2441.9	2443.6
37.5°	2061.1	2054.0	2057.6	2062.8	2080.2	2102.8	2123.6	2154.9	2175.8	2196.7	2215.8
40°	1608.8	1614.1	1627.9	1659.2	1704.5	1754.9	1801.9	1861.0	1920.2	1961.9	2000.1
42.5°	1214.0	1229.7	1264.4	1309.7	1377.5	1452.3	1525.4	1612.3	1683.6	1753.2	1801.9
45°	913.1	934.0	979.2	1041.8	1116.6	1203.6	1295.8	1393.1	1478.4	1549.7	1603.6
47.5°	711.4	730.5	775.7	841.8	934.0	1024.4	1120.1	1221.0	1309.7	1379.2	1426.2
50°	561.8	586.1	626.1	695.7	787.9	883.6	982.7	1081.8	1165.3	1224.5	1266.2
52.5°	441.8	464.4	502.6	575.7	669.6	765.3	857.4	954.9	1027.9	1085.3	1113.1
55°	342.6	363.5	403.5	464.4	553.1	647.0	739.2	822.7	890.5	932.2	958.4
57.5°	260.9	276.6	304.4	365.2	445.3	532.2	610.5	694.0	746.2	775.7	793.1
60°	198.3	210.5	240.0	287.0	360.0	434.8	500.9	563.6	605.3	629.6	647.0
62.5°	149.6	163.5	184.3	224.4	280.0	340.9	396.5	443.5	478.3	494.0	506.1
65°	102.6	113.0	128.7	160.0	207.0	250.4	293.9	328.7	351.4	368.8	375.7
67.5°	76.5	83.5	92.2	116.5	149.6	184.3	213.9	238.3	262.7	269.6	281.8
70°	57.4	62.6	71.3	88.7	107.8	132.2	156.6	170.5	187.9	200.0	203.5
72.5°	36.5	38.2	47.0	57.4	73.0	88.7	104.4	116.5	127.0	133.9	137.4
75°	20.9	31.3	31.3	41.7	52.2	59.1	69.6	78.2	83.5	88.7	88.7
77.5°	13.9	19.1	20.9	26.1	31.3	40.0	48.7	53.9	59.1	60.9	60.9
80°	12.2	13.9	13.9	19.1	22.6	29.6	34.8	36.5	40.0	41.7	45.2
82.5°	5.2	6.9	8.7	13.9	15.7	15.7	20.9	22.6	26.1	27.8	27.8
85°	1.7	3.5	3.5	5.2	8.7	10.5	12.2	13.9	15.7	15.7	17.4
87.5°	1.7	1.7	0.0	1.7	3.5	3.5	6.9	6.9	6.9	10.5	10.5
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: P248868

CATALOG NUMBER: LD8B80D010 ER8B80827 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0
2.5°	3530.7	3532.4	3525.5	3523.8	3520.3	3522.0	3525.5
5°	3466.4	3468.1	3461.1	3454.2	3454.2	3452.4	3454.2
7.5°	3405.4	3407.2	3396.8	3393.3	3386.3	3388.1	3388.1
10°	3344.6	3344.6	3329.0	3327.2	3322.0	3320.3	3320.3
12.5°	3285.5	3280.2	3268.1	3261.1	3264.6	3254.2	3254.2
15°	3233.3	3224.6	3208.9	3203.7	3195.0	3191.5	3191.5
17.5°	3179.4	3172.4	3158.5	3148.1	3137.6	3135.9	3137.6
20°	3127.2	3120.2	3102.8	3095.9	3087.2	3087.2	3083.7
22.5°	3075.0	3068.0	3052.4	3047.2	3035.0	3035.0	3036.8
25°	3021.1	3015.9	2998.5	2995.0	2993.3	2986.3	2989.8
27.5°	2948.1	2944.6	2930.7	2925.4	2918.5	2916.8	2920.2
30°	2814.1	2808.9	2798.5	2793.3	2781.1	2782.8	2786.3
32.5°	2647.2	2640.2	2626.3	2621.0	2610.7	2607.1	2608.9
35°	2438.5	2433.3	2421.1	2421.1	2410.6	2407.1	2410.6
37.5°	2226.3	2231.4	2226.3	2231.4	2226.3	2224.5	2226.3
40°	2026.3	2045.4	2048.8	2068.0	2061.1	2071.4	2069.7
42.5°	1834.9	1866.2	1878.4	1894.0	1890.6	1897.6	1902.8
45°	1641.8	1668.0	1680.1	1690.6	1692.3	1695.8	1697.5
47.5°	1459.2	1480.1	1481.8	1494.0	1492.3	1492.3	1497.5
50°	1288.8	1302.7	1306.2	1314.9	1307.9	1304.4	1306.2
52.5°	1130.5	1144.4	1140.9	1144.4	1135.8	1132.3	1134.0
55°	968.7	975.7	975.7	975.7	965.3	965.3	965.3
57.5°	803.5	805.3	801.8	803.5	801.8	791.4	789.6
60°	652.3	652.3	650.5	652.3	647.0	641.8	641.8
62.5°	509.6	513.1	520.0	513.1	509.6	513.1	507.9
65°	380.9	387.9	386.1	389.6	387.9	387.9	384.4
67.5°	287.0	288.7	290.4	292.2	292.2	292.2	292.2
70°	210.5	215.7	213.9	213.9	213.9	213.9	224.4
72.5°	140.9	147.8	146.1	149.6	149.6	153.1	149.6
75°	95.6	102.6	99.2	104.4	102.6	99.2	107.8
77.5°	64.4	67.9	69.6	71.3	69.6	67.9	69.6
80°	45.2	48.7	47.0	48.7	48.7	48.7	50.5
82.5°	27.8	33.1	31.3	33.1	31.3	33.1	33.1
85°	19.1	20.9	17.4	20.9	19.1	19.1	22.6
87.5°	12.2	10.5	10.5	12.2	10.5	12.2	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)