

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: P248877

Luminaire Tested: **LD8B80D010 ER8B80830 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248877
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 ER8B80830 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6150.0 lumens
Efficiency: N/A
Efficacy: 82.7 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

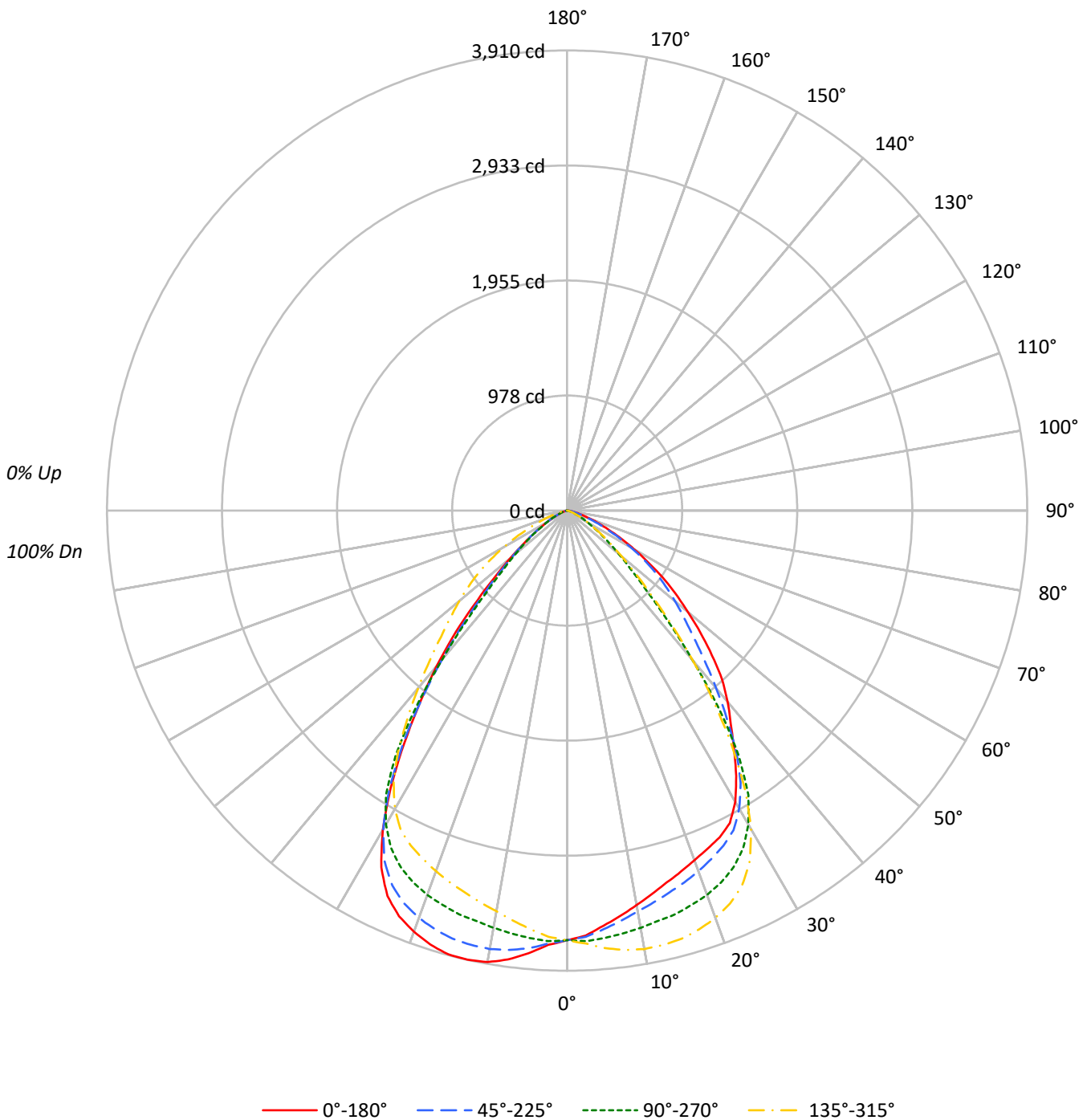
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	112586	112586	112586	112586
5°	109596	112849	116880	112849
10°	106564	112701	121970	112701
15°	104433	113372	124638	113372
20°	103723	114020	124957	114020
25°	104267	113790	122950	113790
30°	101689	109626	111595	109626
35°	93015	95631	90734	95631
40°	85399	66524	69466	66524
45°	75880	40583	46958	40583
50°	64226	27109	30103	27109
55°	53192	18499	19553	18499
60°	40568	12316	12421	12316
65°	28748	7676	7027	7676
70°	20737	5139	4661	5139
75°	13165	2550	2121	2550
80°	9181	1900	1580	1900
85°	8208	0	637	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.5	5.7
10°-20°	1006.3	16.4
20°-30°	1523.8	24.8
30°-40°	1527.2	24.8
40°-50°	959.0	15.6
50°-60°	511.1	8.3
60°-70°	210.2	3.4
70°-80°	55.5	0.9
80°-90°	9.4	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°	2877.6	46.8
0°-40°	4404.9	71.6
0°-60°	5874.9	95.5
0°-90°	6150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6150.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3651	3651	3651	3651	3651	
5°	3541	3646	3776	3646	3541	334
15°	3271	3551	3904	3551	3271	925
25°	3064	3344	3614	3344	3064	1406
35°	2471	2540	2410	2540	2471	1548
45°	1740	931	1077	931	1740	1338
55°	989	344	364	344	989	882
65°	394	105	96	105	394	409
75°	110	21	18	21	110	125
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°	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1
2.5°	3613.6	3610.0	3608.3	3611.9	3613.6	3620.8	3619.0	3622.5	3622.5	3624.4	3627.9
5°	3540.6	3538.7	3540.6	3540.6	3547.7	3554.8	3553.0	3558.4	3561.9	3570.9	3574.4
7.5°	3472.8	3472.8	3471.0	3478.1	3481.7	3492.4	3490.6	3499.5	3504.9	3513.8	3526.2
10°	3403.3	3403.3	3405.0	3410.4	3412.2	3428.2	3428.2	3440.7	3447.8	3456.8	3472.8
12.5°	3335.5	3335.5	3346.2	3342.6	3349.8	3362.2	3367.6	3380.1	3390.8	3408.6	3424.7
15°	3271.3	3271.3	3274.9	3283.8	3289.2	3305.2	3314.1	3328.4	3340.9	3358.7	3381.9
17.5°	3216.1	3214.3	3216.1	3226.8	3237.5	3251.7	3258.8	3276.7	3289.2	3312.3	3333.8
20°	3160.8	3164.4	3164.4	3173.3	3180.4	3198.2	3205.4	3225.0	3239.3	3260.6	3285.6
22.5°	3112.7	3110.9	3110.9	3123.4	3128.7	3144.7	3151.9	3169.7	3185.8	3203.6	3226.8
25°	3064.5	3060.9	3068.1	3069.9	3073.4	3091.2	3096.6	3109.1	3125.2	3141.2	3164.4
27.5°	2993.2	2989.7	2991.5	2998.6	3003.9	3018.2	3021.8	3034.2	3046.7	3060.9	3080.6
30°	2855.9	2852.4	2850.6	2863.1	2868.5	2879.1	2884.5	2905.9	2909.4	2925.5	2939.7
32.5°	2674.1	2672.3	2675.9	2686.6	2691.9	2706.2	2713.3	2725.8	2734.7	2743.7	2757.9
35°	2470.9	2467.3	2470.9	2481.6	2481.6	2494.1	2499.4	2504.7	2503.0	2504.7	2501.2
37.5°	2281.9	2280.1	2281.9	2287.2	2281.9	2287.2	2281.9	2271.2	2251.6	2230.2	2208.8
40°	2121.5	2123.2	2112.6	2119.7	2100.0	2096.5	2076.9	2050.1	2011.0	1968.2	1907.6
42.5°	1950.3	1945.0	1937.9	1941.4	1925.4	1912.9	1880.8	1847.0	1797.0	1725.7	1652.6
45°	1740.0	1738.2	1734.6	1732.9	1722.1	1709.7	1682.9	1643.7	1588.4	1515.4	1428.0
47.5°	1534.9	1529.6	1529.6	1531.4	1518.9	1517.1	1495.7	1461.9	1413.7	1342.4	1251.5
50°	1338.8	1337.0	1340.6	1347.8	1338.8	1335.3	1321.0	1297.9	1255.1	1194.5	1108.8
52.5°	1162.3	1160.6	1164.2	1173.0	1169.4	1173.0	1158.8	1141.0	1112.4	1053.6	978.7
55°	989.4	989.4	989.4	1000.1	1000.1	1000.1	993.0	982.3	955.5	912.8	843.3
57.5°	809.4	811.1	821.8	823.6	821.8	825.4	823.6	812.9	795.1	764.8	711.3
60°	657.8	657.8	663.2	668.6	666.7	668.6	668.6	663.2	645.4	620.4	577.6
62.5°	520.6	525.9	522.3	525.9	533.0	525.9	522.3	518.8	506.3	490.2	454.6
65°	394.0	397.6	397.6	399.3	395.7	397.6	390.5	385.1	378.0	360.1	337.0
67.5°	299.5	299.5	299.5	299.5	297.7	295.9	294.2	288.8	276.3	269.2	244.2
70°	230.0	219.3	219.3	219.3	219.3	221.1	215.7	208.6	205.0	192.5	174.7
72.5°	153.3	156.9	153.3	153.3	149.8	151.5	144.4	140.8	137.3	130.2	119.5
75°	110.5	101.6	105.2	107.0	101.6	105.2	98.0	90.9	90.9	85.6	80.2
77.5°	71.3	69.6	71.3	73.1	71.3	69.6	66.0	62.4	62.4	60.6	55.3
80°	51.7	49.9	49.9	49.9	48.1	49.9	46.4	46.4	42.8	41.0	37.4
82.5°	33.9	33.9	32.1	33.9	32.1	33.9	28.5	28.5	28.5	26.7	23.2
85°	23.2	19.6	19.6	21.4	17.8	21.4	19.6	17.8	16.1	16.1	14.2
87.5°	10.7	12.5	10.7	12.5	10.7	10.7	12.5	10.7	10.7	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°	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1
2.5°	3633.2	3635.0	3635.0	3642.2	3645.7	3647.5	3647.5	3661.8	3656.4	3660.0	3663.5
5°	3581.6	3592.2	3595.8	3595.8	3615.4	3622.5	3629.6	3645.7	3647.5	3658.2	3670.7
7.5°	3531.6	3544.1	3551.3	3567.3	3579.7	3592.2	3613.6	3624.4	3635.0	3649.3	3665.3
10°	3483.5	3497.8	3512.0	3524.5	3544.1	3560.1	3574.4	3599.3	3611.9	3631.5	3652.8
12.5°	3437.2	3456.8	3469.2	3490.6	3512.0	3526.2	3547.7	3570.9	3590.4	3610.0	3635.0
15°	3396.1	3419.3	3433.6	3456.8	3479.9	3499.5	3522.7	3551.3	3565.5	3588.7	3611.9
17.5°	3351.5	3376.5	3394.4	3415.7	3444.3	3465.6	3485.3	3513.8	3531.6	3556.5	3583.3
20°	3305.2	3330.2	3351.5	3373.0	3401.5	3422.9	3446.0	3474.6	3494.2	3519.1	3540.6
22.5°	3250.0	3273.2	3296.3	3321.2	3349.8	3367.6	3394.4	3419.3	3440.7	3463.9	3485.3
25°	3178.6	3207.2	3225.0	3248.1	3271.3	3290.9	3319.5	3344.4	3362.2	3383.7	3403.3
27.5°	3094.8	3116.3	3130.5	3150.1	3173.3	3191.1	3212.5	3237.5	3255.3	3274.9	3289.2
30°	2952.2	2971.9	2984.3	2998.6	3021.8	3037.8	3055.7	3078.8	3091.2	3105.6	3118.0
32.5°	2765.0	2781.1	2788.2	2798.9	2815.0	2831.0	2845.3	2864.9	2870.2	2879.1	2879.1
35°	2494.1	2497.6	2495.8	2499.4	2506.6	2515.4	2527.9	2540.4	2547.5	2547.5	2542.2
37.5°	2176.7	2155.4	2132.2	2114.4	2109.0	2105.4	2112.6	2117.9	2125.1	2128.6	2119.7
40°	1847.0	1798.8	1747.1	1700.7	1668.6	1654.4	1649.1	1652.6	1652.6	1665.0	1665.0
42.5°	1563.5	1488.6	1412.0	1342.4	1296.0	1260.4	1244.4	1244.4	1246.1	1255.1	1260.4
45°	1328.2	1233.7	1144.5	1067.9	1003.7	957.3	936.0	930.6	928.8	932.4	944.8
47.5°	1148.1	1050.1	957.3	862.9	795.1	748.8	729.2	722.0	714.9	722.0	723.8
50°	1007.3	905.6	807.6	713.1	641.8	600.8	575.8	565.1	563.3	563.3	566.9
52.5°	878.9	784.4	686.4	590.1	515.2	476.0	452.8	447.5	440.3	447.5	447.5
55°	757.6	663.2	566.9	476.0	413.6	372.6	351.2	344.1	340.5	345.8	345.8
57.5°	625.8	545.5	456.4	374.4	312.0	283.5	267.4	258.5	256.7	260.3	256.7
60°	513.4	445.7	369.0	294.2	246.0	215.7	203.3	199.7	196.1	199.7	199.7
62.5°	406.4	349.4	287.0	230.0	189.0	167.6	153.3	153.3	151.5	151.5	153.3
65°	301.3	256.7	212.1	164.0	131.9	115.9	105.2	105.2	103.4	105.2	103.4
67.5°	219.3	189.0	153.3	119.5	94.5	85.6	78.4	73.1	76.7	73.1	71.3
70°	160.5	135.5	110.5	90.9	73.1	64.2	58.9	57.0	53.5	53.5	53.5
72.5°	107.0	90.9	74.8	58.9	48.1	39.2	37.4	33.9	30.3	32.1	35.7
75°	71.3	60.6	53.5	42.8	32.1	32.1	21.4	21.4	17.8	21.4	16.1
77.5°	49.9	41.0	32.1	26.7	21.4	19.6	14.2	14.2	12.5	12.5	12.5
80°	35.7	30.3	23.2	19.6	14.2	14.2	12.5	10.7	8.9	8.9	10.7
82.5°	21.4	16.1	16.1	14.2	8.9	7.1	5.4	7.1	3.6	3.6	3.6
85°	12.5	10.7	8.9	5.4	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°	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1
2.5°	3672.5	3670.7	3674.2	3674.2	3685.0	3683.1	3688.5	3688.5	3685.0	3686.7	3693.8
5°	3685.0	3690.3	3701.0	3709.9	3725.9	3733.1	3742.0	3750.9	3752.7	3758.0	3763.4
7.5°	3685.0	3702.8	3715.3	3731.3	3752.7	3765.2	3784.8	3800.8	3807.9	3816.8	3827.5
10°	3677.8	3695.6	3718.8	3736.6	3763.4	3783.0	3802.6	3827.5	3838.3	3852.5	3866.8
12.5°	3663.5	3683.1	3708.1	3731.3	3761.6	3779.4	3804.3	3827.5	3843.6	3863.2	3879.3
15°	3642.2	3665.3	3688.5	3711.7	3743.7	3765.2	3788.4	3815.1	3831.1	3852.5	3866.8
17.5°	3608.3	3633.2	3654.7	3676.0	3706.3	3731.3	3752.7	3777.6	3793.7	3811.5	3831.1
20°	3567.3	3590.4	3613.6	3631.5	3661.8	3683.1	3706.3	3729.5	3742.0	3745.6	3775.9
22.5°	3515.6	3531.6	3549.4	3578.0	3595.8	3615.4	3636.8	3658.2	3670.7	3690.3	3701.0
25°	3430.0	3446.0	3465.6	3478.1	3499.5	3515.6	3537.0	3560.1	3567.3	3581.6	3592.2
27.5°	3310.6	3319.5	3328.4	3339.1	3351.5	3360.5	3373.0	3383.7	3390.8	3397.9	3405.0
30°	3121.6	3121.6	3121.6	3114.4	3119.8	3125.2	3126.9	3125.2	3125.2	3123.4	3123.4
32.5°	2872.0	2857.8	2841.7	2827.5	2822.1	2815.0	2811.4	2806.0	2797.1	2791.8	2793.5
35°	2535.0	2503.0	2483.4	2465.5	2451.3	2440.6	2435.2	2429.9	2428.1	2421.0	2413.8
37.5°	2114.4	2091.2	2076.9	2066.2	2053.7	2043.0	2044.8	2046.6	2051.9	2048.4	2050.1
40°	1668.6	1663.3	1668.6	1656.2	1652.6	1656.2	1665.0	1677.6	1684.7	1691.8	1704.3
42.5°	1269.3	1278.2	1290.7	1290.7	1296.0	1303.2	1313.9	1333.5	1344.2	1356.6	1370.9
45°	955.5	966.3	982.3	987.6	991.2	1000.1	1012.6	1028.6	1035.7	1046.5	1058.9
47.5°	736.3	743.4	752.3	761.2	770.1	773.7	786.2	786.2	795.1	802.3	805.8
50°	574.0	581.2	588.3	593.6	597.2	602.6	606.1	611.5	613.2	616.8	618.6
52.5°	449.2	458.2	458.2	461.7	467.1	472.4	470.7	472.4	474.2	474.2	479.5
55°	351.2	351.2	356.5	356.5	360.1	358.3	360.1	360.1	360.1	360.1	361.9
57.5°	262.0	263.9	269.2	265.6	263.9	267.4	263.9	267.4	265.6	269.2	263.9
60°	201.4	201.4	203.3	203.3	205.0	205.0	205.0	203.3	203.3	201.4	201.4
62.5°	151.5	153.3	155.1	153.3	153.3	153.3	151.5	151.5	149.8	147.9	147.9
65°	101.6	99.9	103.4	99.9	101.6	101.6	99.9	101.6	96.3	98.0	96.3
67.5°	73.1	71.3	69.6	71.3	69.6	67.7	67.7	69.6	71.3	66.0	66.0
70°	48.1	49.9	48.1	49.9	51.7	51.7	49.9	48.1	49.9	46.4	48.1
72.5°	30.3	30.3	30.3	30.3	30.3	32.1	32.1	32.1	28.5	28.5	26.7
75°	14.2	19.6	16.1	14.2	19.6	19.6	17.8	17.8	16.1	16.1	16.1
77.5°	14.2	10.7	10.7	10.7	10.7	10.7	10.7	10.7	8.9	10.7	8.9
80°	7.1	7.1	7.1	5.4	7.1	7.1	8.9	7.1	7.1	5.4	8.9
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: P248877

CATALOG NUMBER: LD8B80D010 ER8B80830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1
2.5°	3692.1	3690.3	3692.1	3693.8	3692.1	3690.3	3692.1	3693.8	3686.7	3685.0	3688.5
5°	3770.5	3770.5	3774.0	3775.9	3774.0	3770.5	3770.5	3763.4	3758.0	3752.7	3750.9
7.5°	3838.3	3841.8	3845.4	3847.1	3845.4	3841.8	3838.3	3827.5	3816.8	3807.9	3800.8
10°	3879.3	3884.6	3891.7	3895.3	3891.7	3884.6	3879.3	3866.8	3852.5	3838.3	3827.5
12.5°	3897.1	3902.5	3911.3	3909.6	3911.3	3902.5	3897.1	3879.3	3863.2	3843.6	3827.5
15°	3884.6	3891.7	3900.6	3904.2	3900.6	3891.7	3884.6	3866.8	3852.5	3831.1	3815.1
17.5°	3845.4	3856.1	3861.4	3866.8	3861.4	3856.1	3845.4	3831.1	3811.5	3793.7	3777.6
20°	3791.9	3799.1	3806.2	3807.9	3806.2	3799.1	3791.9	3775.9	3745.6	3742.0	3729.5
22.5°	3715.3	3720.6	3736.6	3731.3	3736.6	3720.6	3715.3	3701.0	3690.3	3670.7	3658.2
25°	3604.7	3610.0	3611.9	3613.6	3611.9	3610.0	3604.7	3592.2	3581.6	3567.3	3560.1
27.5°	3414.0	3414.0	3417.5	3419.3	3417.5	3414.0	3414.0	3405.0	3397.9	3390.8	3383.7
30°	3125.2	3125.2	3125.2	3134.1	3125.2	3125.2	3125.2	3123.4	3123.4	3125.2	3125.2
32.5°	2791.8	2788.2	2784.7	2788.2	2784.7	2788.2	2791.8	2793.5	2791.8	2797.1	2806.0
35°	2413.8	2412.1	2417.4	2410.3	2417.4	2412.1	2413.8	2413.8	2421.0	2428.1	2429.9
37.5°	2051.9	2048.4	2055.5	2048.4	2055.5	2048.4	2051.9	2050.1	2048.4	2051.9	2046.6
40°	1707.9	1711.4	1711.4	1725.7	1711.4	1711.4	1707.9	1704.3	1691.8	1684.7	1677.6
42.5°	1378.1	1388.8	1385.2	1395.9	1385.2	1388.8	1378.1	1370.9	1356.6	1344.2	1333.5
45°	1066.1	1073.2	1073.2	1076.8	1073.2	1073.2	1066.1	1058.9	1046.5	1035.7	1028.6
47.5°	818.3	818.3	818.3	820.1	818.3	818.3	818.3	805.8	802.3	795.1	786.2
50°	622.2	623.9	625.8	627.5	625.8	623.9	622.2	618.6	616.8	613.2	611.5
52.5°	477.8	479.5	476.0	479.5	476.0	479.5	477.8	479.5	474.2	474.2	472.4
55°	361.9	360.1	361.9	363.7	361.9	360.1	361.9	361.9	360.1	360.1	360.1
57.5°	265.6	262.0	262.0	262.0	262.0	262.0	265.6	263.9	269.2	265.6	267.4
60°	197.9	199.7	199.7	201.4	199.7	199.7	197.9	201.4	201.4	203.3	203.3
62.5°	146.2	151.5	147.9	151.5	147.9	151.5	146.2	147.9	147.9	149.8	151.5
65°	94.5	94.5	94.5	96.3	94.5	94.5	94.5	96.3	98.0	96.3	101.6
67.5°	64.2	66.0	69.6	67.7	69.6	66.0	64.2	66.0	66.0	71.3	69.6
70°	51.7	46.4	46.4	51.7	46.4	46.4	51.7	48.1	46.4	49.9	48.1
72.5°	30.3	26.7	30.3	30.3	30.3	26.7	30.3	26.7	28.5	28.5	32.1
75°	16.1	14.2	12.5	17.8	12.5	14.2	16.1	16.1	16.1	16.1	17.8
77.5°	10.7	8.9	12.5	12.5	12.5	8.9	10.7	8.9	10.7	8.9	10.7
80°	5.4	7.1	5.4	8.9	5.4	7.1	5.4	8.9	5.4	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: P248877

CATALOG NUMBER: LD8B80D010 ER8B80830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1
2.5°	3688.5	3683.1	3685.0	3674.2	3674.2	3670.7	3672.5	3663.5	3660.0	3656.4	3661.8
5°	3742.0	3733.1	3725.9	3709.9	3701.0	3690.3	3685.0	3670.7	3658.2	3647.5	3645.7
7.5°	3784.8	3765.2	3752.7	3731.3	3715.3	3702.8	3685.0	3665.3	3649.3	3635.0	3624.4
10°	3802.6	3783.0	3763.4	3736.6	3718.8	3695.6	3677.8	3652.8	3631.5	3611.9	3599.3
12.5°	3804.3	3779.4	3761.6	3731.3	3708.1	3683.1	3663.5	3635.0	3610.0	3590.4	3570.9
15°	3788.4	3765.2	3743.7	3711.7	3688.5	3665.3	3642.2	3611.9	3588.7	3565.5	3551.3
17.5°	3752.7	3731.3	3706.3	3676.0	3654.7	3633.2	3608.3	3583.3	3556.5	3531.6	3513.8
20°	3706.3	3683.1	3661.8	3631.5	3613.6	3590.4	3567.3	3540.6	3519.1	3494.2	3474.6
22.5°	3636.8	3615.4	3595.8	3578.0	3549.4	3531.6	3515.6	3485.3	3463.9	3440.7	3419.3
25°	3537.0	3515.6	3499.5	3478.1	3465.6	3446.0	3430.0	3403.3	3383.7	3362.2	3344.4
27.5°	3373.0	3360.5	3351.5	3339.1	3328.4	3319.5	3310.6	3289.2	3274.9	3255.3	3237.5
30°	3126.9	3125.2	3119.8	3114.4	3121.6	3121.6	3121.6	3118.0	3105.6	3091.2	3078.8
32.5°	2811.4	2815.0	2822.1	2827.5	2841.7	2857.8	2872.0	2879.1	2879.1	2870.2	2864.9
35°	2435.2	2440.6	2451.3	2465.5	2483.4	2503.0	2535.0	2542.2	2547.5	2547.5	2540.4
37.5°	2044.8	2043.0	2053.7	2066.2	2076.9	2091.2	2114.4	2119.7	2128.6	2125.1	2117.9
40°	1665.0	1656.2	1652.6	1656.2	1668.6	1663.3	1668.6	1665.0	1665.0	1652.6	1652.6
42.5°	1313.9	1303.2	1296.0	1290.7	1290.7	1278.2	1269.3	1260.4	1255.1	1246.1	1244.4
45°	1012.6	1000.1	991.2	987.6	982.3	966.3	955.5	944.8	932.4	928.8	930.6
47.5°	786.2	773.7	770.1	761.2	752.3	743.4	736.3	723.8	722.0	714.9	722.0
50°	606.1	602.6	597.2	593.6	588.3	581.2	574.0	566.9	563.3	563.3	565.1
52.5°	470.7	472.4	467.1	461.7	458.2	458.2	449.2	447.5	447.5	440.3	447.5
55°	360.1	358.3	360.1	356.5	356.5	351.2	351.2	345.8	345.8	340.5	344.1
57.5°	263.9	267.4	263.9	265.6	269.2	263.9	262.0	256.7	260.3	256.7	258.5
60°	205.0	205.0	205.0	203.3	203.3	201.4	201.4	199.7	199.7	196.1	199.7
62.5°	151.5	153.3	153.3	153.3	155.1	153.3	151.5	153.3	151.5	151.5	153.3
65°	99.9	101.6	101.6	99.9	103.4	99.9	101.6	103.4	105.2	103.4	105.2
67.5°	67.7	67.7	69.6	71.3	69.6	71.3	73.1	71.3	73.1	76.7	73.1
70°	49.9	51.7	51.7	49.9	48.1	49.9	48.1	53.5	53.5	53.5	57.0
72.5°	32.1	32.1	30.3	30.3	30.3	30.3	30.3	35.7	32.1	30.3	33.9
75°	17.8	19.6	19.6	14.2	16.1	19.6	14.2	16.1	21.4	17.8	21.4
77.5°	10.7	10.7	10.7	10.7	10.7	10.7	14.2	12.5	12.5	12.5	14.2
80°	8.9	7.1	7.1	5.4	7.1	7.1	7.1	10.7	8.9	8.9	10.7
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: P248877

CATALOG NUMBER: LD8B80D010 ER8B80830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1
2.5°	3647.5	3647.5	3645.7	3642.2	3635.0	3635.0	3633.2	3627.9	3624.4	3622.5	3622.5
5°	3629.6	3622.5	3615.4	3595.8	3595.8	3592.2	3581.6	3574.4	3570.9	3561.9	3558.4
7.5°	3613.6	3592.2	3579.7	3567.3	3551.3	3544.1	3531.6	3526.2	3513.8	3504.9	3499.5
10°	3574.4	3560.1	3544.1	3524.5	3512.0	3497.8	3483.5	3472.8	3456.8	3447.8	3440.7
12.5°	3547.7	3526.2	3512.0	3490.6	3469.2	3456.8	3437.2	3424.7	3408.6	3390.8	3380.1
15°	3522.7	3499.5	3479.9	3456.8	3433.6	3419.3	3396.1	3381.9	3358.7	3340.9	3328.4
17.5°	3485.3	3465.6	3444.3	3415.7	3394.4	3376.5	3351.5	3333.8	3312.3	3289.2	3276.7
20°	3446.0	3422.9	3401.5	3373.0	3351.5	3330.2	3305.2	3285.6	3260.6	3239.3	3225.0
22.5°	3394.4	3367.6	3349.8	3321.2	3296.3	3273.2	3250.0	3226.8	3203.6	3185.8	3169.7
25°	3319.5	3290.9	3271.3	3248.1	3225.0	3207.2	3178.6	3164.4	3141.2	3125.2	3109.1
27.5°	3212.5	3191.1	3173.3	3150.1	3130.5	3116.3	3094.8	3080.6	3060.9	3046.7	3034.2
30°	3055.7	3037.8	3021.8	2998.6	2984.3	2971.9	2952.2	2939.7	2925.5	2909.4	2905.9
32.5°	2845.3	2831.0	2815.0	2798.9	2788.2	2781.1	2765.0	2757.9	2743.7	2734.7	2725.8
35°	2527.9	2515.4	2506.6	2499.4	2495.8	2497.6	2494.1	2501.2	2504.7	2503.0	2504.7
37.5°	2112.6	2105.4	2109.0	2114.4	2132.2	2155.4	2176.7	2208.8	2230.2	2251.6	2271.2
40°	1649.1	1654.4	1668.6	1700.7	1747.1	1798.8	1847.0	1907.6	1968.2	2011.0	2050.1
42.5°	1244.4	1260.4	1296.0	1342.4	1412.0	1488.6	1563.5	1652.6	1725.7	1797.0	1847.0
45°	936.0	957.3	1003.7	1067.9	1144.5	1233.7	1328.2	1428.0	1515.4	1588.4	1643.7
47.5°	729.2	748.8	795.1	862.9	957.3	1050.1	1148.1	1251.5	1342.4	1413.7	1461.9
50°	575.8	600.8	641.8	713.1	807.6	905.6	1007.3	1108.8	1194.5	1255.1	1297.9
52.5°	452.8	476.0	515.2	590.1	686.4	784.4	878.9	978.7	1053.6	1112.4	1141.0
55°	351.2	372.6	413.6	476.0	566.9	663.2	757.6	843.3	912.8	955.5	982.3
57.5°	267.4	283.5	312.0	374.4	456.4	545.5	625.8	711.3	764.8	795.1	812.9
60°	203.3	215.7	246.0	294.2	369.0	445.7	513.4	577.6	620.4	645.4	663.2
62.5°	153.3	167.6	189.0	230.0	287.0	349.4	406.4	454.6	490.2	506.3	518.8
65°	105.2	115.9	131.9	164.0	212.1	256.7	301.3	337.0	360.1	378.0	385.1
67.5°	78.4	85.6	94.5	119.5	153.3	189.0	219.3	244.2	269.2	276.3	288.8
70°	58.9	64.2	73.1	90.9	110.5	135.5	160.5	174.7	192.5	205.0	208.6
72.5°	37.4	39.2	48.1	58.9	74.8	90.9	107.0	119.5	130.2	137.3	140.8
75°	21.4	32.1	32.1	42.8	53.5	60.6	71.3	80.2	85.6	90.9	90.9
77.5°	14.2	19.6	21.4	26.7	32.1	41.0	49.9	55.3	60.6	62.4	62.4
80°	12.5	14.2	14.2	19.6	23.2	30.3	35.7	37.4	41.0	42.8	46.4
82.5°	5.4	7.1	8.9	14.2	16.1	16.1	21.4	23.2	26.7	28.5	28.5
85°	1.8	3.6	3.6	5.4	8.9	10.7	12.5	14.2	16.1	16.1	17.8
87.5°	1.8	1.8	0.0	1.8	3.6	3.6	7.1	7.1	7.1	10.7	10.7
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: P248877

CATALOG NUMBER: LD8B80D010 ER8B80830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1	3651.1
2.5°	3619.0	3620.8	3613.6	3611.9	3608.3	3610.0	3613.6
5°	3553.0	3554.8	3547.7	3540.6	3540.6	3538.7	3540.6
7.5°	3490.6	3492.4	3481.7	3478.1	3471.0	3472.8	3472.8
10°	3428.2	3428.2	3412.2	3410.4	3405.0	3403.3	3403.3
12.5°	3367.6	3362.2	3349.8	3342.6	3346.2	3335.5	3335.5
15°	3314.1	3305.2	3289.2	3283.8	3274.9	3271.3	3271.3
17.5°	3258.8	3251.7	3237.5	3226.8	3216.1	3214.3	3216.1
20°	3205.4	3198.2	3180.4	3173.3	3164.4	3164.4	3160.8
22.5°	3151.9	3144.7	3128.7	3123.4	3110.9	3110.9	3112.7
25°	3096.6	3091.2	3073.4	3069.9	3068.1	3060.9	3064.5
27.5°	3021.8	3018.2	3003.9	2998.6	2991.5	2989.7	2993.2
30°	2884.5	2879.1	2868.5	2863.1	2850.6	2852.4	2855.9
32.5°	2713.3	2706.2	2691.9	2686.6	2675.9	2672.3	2674.1
35°	2499.4	2494.1	2481.6	2481.6	2470.9	2467.3	2470.9
37.5°	2281.9	2287.2	2281.9	2287.2	2281.9	2280.1	2281.9
40°	2076.9	2096.5	2100.0	2119.7	2112.6	2123.2	2121.5
42.5°	1880.8	1912.9	1925.4	1941.4	1937.9	1945.0	1950.3
45°	1682.9	1709.7	1722.1	1732.9	1734.6	1738.2	1740.0
47.5°	1495.7	1517.1	1518.9	1531.4	1529.6	1529.6	1534.9
50°	1321.0	1335.3	1338.8	1347.8	1340.6	1337.0	1338.8
52.5°	1158.8	1173.0	1169.4	1173.0	1164.2	1160.6	1162.3
55°	993.0	1000.1	1000.1	1000.1	989.4	989.4	989.4
57.5°	823.6	825.4	821.8	823.6	821.8	811.1	809.4
60°	668.6	668.6	666.7	668.6	663.2	657.8	657.8
62.5°	522.3	525.9	533.0	525.9	522.3	525.9	520.6
65°	390.5	397.6	395.7	399.3	397.6	397.6	394.0
67.5°	294.2	295.9	297.7	299.5	299.5	299.5	299.5
70°	215.7	221.1	219.3	219.3	219.3	219.3	230.0
72.5°	144.4	151.5	149.8	153.3	153.3	156.9	153.3
75°	98.0	105.2	101.6	107.0	105.2	101.6	110.5
77.5°	66.0	69.6	71.3	73.1	71.3	69.6	71.3
80°	46.4	49.9	48.1	49.9	49.9	49.9	51.7
82.5°	28.5	33.9	32.1	33.9	32.1	33.9	33.9
85°	19.6	21.4	17.8	21.4	19.6	19.6	23.2
87.5°	12.5	10.7	10.7	12.5	10.7	12.5	10.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)