

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: P249067

Luminaire Tested: **LD8B90D010 ER8B909727 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249067
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: LD8B90D010 ER8B909727 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6495.0 lumens
Efficiency: N/A
Efficacy: 75.4 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

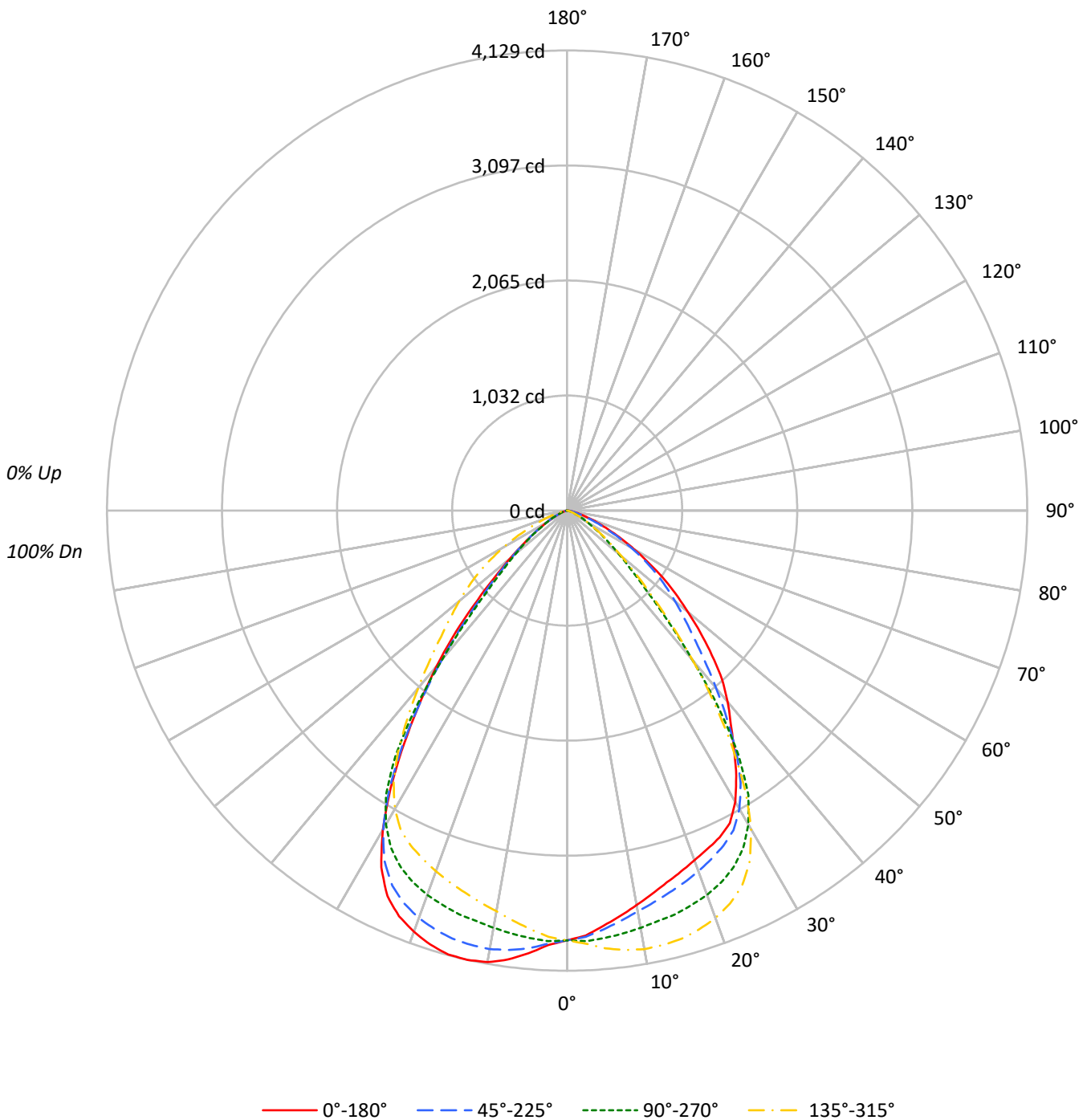
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	367.0	5.7
10°-20°	1062.8	16.4
20°-30°	1609.3	24.8
30°-40°	1612.9	24.8
40°-50°	1012.8	15.6
50°-60°	539.7	8.3
60°-70°	221.9	3.4
70°-80°	58.6	0.9
80°-90°	9.9	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°	3039.1	46.8
0°-40°	4652.0	71.6
0°-60°	6204.5	95.5
0°-90°	6495.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6495.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3856	3856	3856	3856	3856	
5°	3739	3850	3988	3850	3739	353
15°	3455	3750	4123	3750	3455	977
25°	3236	3532	3816	3532	3236	1484
35°	2610	2683	2546	2683	2610	1635
45°	1838	983	1137	983	1838	1413
55°	1045	363	384	363	1045	932
65°	416	111	102	111	416	432
75°	117	23	19	23	117	132
85°	24	0	2	0	24	27
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°	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9
2.5°	3816.4	3812.6	3810.7	3814.5	3816.4	3823.9	3822.0	3825.7	3825.7	3827.7	3831.4
5°	3739.2	3737.2	3739.2	3739.2	3746.7	3754.2	3752.3	3758.0	3761.7	3771.2	3774.9
7.5°	3667.6	3667.6	3665.7	3673.2	3677.0	3688.3	3686.4	3695.8	3701.5	3710.9	3724.1
10°	3594.2	3594.2	3596.0	3601.7	3603.6	3620.5	3620.5	3633.7	3641.2	3650.7	3667.6
12.5°	3522.6	3522.6	3534.0	3530.2	3537.7	3550.9	3556.5	3569.7	3581.0	3599.8	3616.8
15°	3454.8	3454.8	3458.6	3468.0	3473.7	3490.6	3500.0	3515.1	3528.3	3547.1	3571.6
17.5°	3396.5	3394.6	3396.5	3407.8	3419.1	3434.1	3441.7	3460.5	3473.7	3498.2	3520.8
20°	3338.1	3341.9	3341.9	3351.3	3358.8	3377.6	3385.2	3405.9	3421.0	3443.5	3469.9
22.5°	3287.3	3285.4	3285.4	3298.6	3304.3	3321.2	3328.7	3347.5	3364.5	3383.3	3407.8
25°	3236.5	3232.7	3240.3	3242.1	3245.8	3264.7	3270.3	3283.5	3300.5	3317.4	3341.9
27.5°	3161.1	3157.4	3159.3	3166.8	3172.4	3187.5	3191.3	3204.4	3217.6	3232.7	3253.4
30°	3016.1	3012.4	3010.6	3023.7	3029.4	3040.6	3046.3	3068.9	3072.6	3089.6	3104.6
32.5°	2824.1	2822.2	2826.0	2837.3	2842.9	2858.0	2865.6	2878.7	2888.1	2897.6	2912.6
35°	2609.5	2605.7	2609.5	2620.8	2620.8	2634.0	2639.7	2645.2	2643.4	2645.2	2641.5
37.5°	2410.0	2408.0	2410.0	2415.5	2410.0	2415.5	2410.0	2398.6	2378.0	2355.3	2332.7
40°	2240.5	2242.3	2231.1	2238.6	2217.8	2214.1	2193.4	2165.2	2123.8	2078.6	2014.6
42.5°	2059.8	2054.1	2046.6	2050.3	2033.4	2020.2	1986.3	1950.6	1897.8	1822.5	1745.3
45°	1837.6	1835.7	1831.9	1830.1	1818.7	1805.6	1777.3	1735.9	1677.5	1600.4	1508.1
47.5°	1621.1	1615.4	1615.4	1617.3	1604.1	1602.2	1579.6	1543.9	1493.0	1417.7	1321.7
50°	1413.9	1412.0	1415.8	1423.4	1413.9	1410.2	1395.2	1370.7	1325.5	1261.5	1171.0
52.5°	1227.5	1225.7	1229.5	1238.8	1235.0	1238.8	1223.8	1205.0	1174.8	1112.7	1033.6
55°	1045.0	1045.0	1045.0	1056.2	1056.2	1056.2	1048.7	1037.4	1009.1	964.0	890.6
57.5°	854.8	856.6	868.0	869.8	868.0	871.7	869.8	858.5	839.7	807.7	751.2
60°	694.7	694.7	700.4	706.1	704.1	706.1	706.1	700.4	681.6	655.2	610.0
62.5°	549.8	555.4	551.6	555.4	562.9	555.4	551.6	547.9	534.7	517.7	480.1
65°	416.1	419.9	419.9	421.7	417.9	419.9	412.4	406.7	399.2	380.3	355.9
67.5°	316.3	316.3	316.3	316.3	314.4	312.5	310.7	305.0	291.8	284.3	257.9
70°	242.9	231.6	231.6	231.6	231.6	233.5	227.8	220.3	216.5	203.3	184.5
72.5°	161.9	165.7	161.9	161.9	158.2	160.0	152.5	148.7	145.0	137.5	126.2
75°	116.7	107.3	111.1	113.0	107.3	111.1	103.5	96.0	96.0	90.4	84.7
77.5°	75.3	73.5	75.3	77.2	75.3	73.5	69.7	65.9	65.9	64.0	58.4
80°	54.6	52.7	52.7	52.7	50.8	52.7	49.0	49.0	45.2	43.3	39.5
82.5°	35.8	35.8	33.9	35.8	33.9	35.8	30.1	30.1	30.1	28.2	24.5
85°	24.5	20.7	20.7	22.6	18.8	22.6	20.7	18.8	17.0	17.0	15.0
87.5°	11.3	13.2	11.3	13.2	11.3	11.3	13.2	11.3	11.3	7.5	7.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9
2.5°	3837.0	3838.9	3838.9	3846.5	3850.2	3852.1	3852.1	3867.2	3861.5	3865.3	3869.1
5°	3782.5	3793.7	3797.5	3797.5	3818.2	3825.7	3833.2	3850.2	3852.1	3863.4	3876.6
7.5°	3729.7	3742.9	3750.5	3767.4	3780.6	3793.7	3816.4	3827.7	3838.9	3854.0	3870.9
10°	3678.9	3694.0	3709.0	3722.2	3742.9	3759.9	3774.9	3801.2	3814.5	3835.2	3857.7
12.5°	3630.0	3650.7	3663.8	3686.4	3709.0	3724.1	3746.7	3771.2	3791.9	3812.6	3838.9
15°	3586.7	3611.1	3626.2	3650.7	3675.2	3695.8	3720.3	3750.5	3765.5	3790.0	3814.5
17.5°	3539.5	3566.0	3584.8	3607.3	3637.5	3660.0	3680.8	3710.9	3729.7	3756.1	3784.3
20°	3490.6	3517.0	3539.5	3562.2	3592.3	3614.9	3639.4	3669.5	3690.2	3716.5	3739.2
22.5°	3432.3	3456.8	3481.2	3507.5	3537.7	3556.5	3584.8	3611.1	3633.7	3658.2	3680.8
25°	3357.0	3387.1	3405.9	3430.3	3454.8	3475.5	3505.7	3532.0	3550.9	3573.5	3594.2
27.5°	3268.5	3291.1	3306.1	3326.8	3351.3	3370.1	3392.7	3419.1	3437.9	3458.6	3473.7
30°	3117.8	3138.6	3151.7	3166.8	3191.3	3208.2	3227.1	3251.5	3264.7	3279.8	3292.9
32.5°	2920.1	2937.1	2944.6	2955.9	2972.9	2989.8	3004.9	3025.6	3031.2	3040.6	3040.6
35°	2634.0	2637.7	2635.9	2639.7	2647.2	2656.6	2669.7	2682.9	2690.4	2690.4	2684.8
37.5°	2298.8	2276.3	2251.8	2233.0	2227.3	2223.5	2231.1	2236.7	2244.3	2248.0	2238.6
40°	1950.6	1899.7	1845.1	1796.1	1762.3	1747.2	1741.6	1745.3	1745.3	1758.5	1758.5
42.5°	1651.2	1572.1	1491.2	1417.7	1368.7	1331.1	1314.2	1314.2	1316.0	1325.5	1331.1
45°	1402.7	1302.9	1208.7	1127.8	1060.0	1011.0	988.5	982.8	980.9	984.7	997.8
47.5°	1212.5	1109.0	1011.0	911.3	839.7	790.8	770.1	762.5	755.0	762.5	764.4
50°	1063.8	956.5	852.9	753.1	677.8	634.5	608.1	596.8	594.9	594.9	598.7
52.5°	928.2	828.4	724.9	623.2	544.1	502.7	478.2	472.6	465.1	472.6	472.6
55°	800.1	700.4	598.7	502.7	436.8	393.5	370.9	363.4	359.6	365.2	365.2
57.5°	660.9	576.1	482.0	395.4	329.5	299.4	282.4	273.0	271.1	274.9	271.1
60°	542.2	470.7	389.7	310.7	259.8	227.8	214.7	210.9	207.1	210.9	210.9
62.5°	429.2	369.0	303.1	242.9	199.6	177.0	161.9	161.9	160.0	160.0	161.9
65°	318.2	271.1	224.0	173.2	139.3	122.4	111.1	111.1	109.2	111.1	109.2
67.5°	231.6	199.6	161.9	126.2	99.8	90.4	82.8	77.2	81.0	77.2	75.3
70°	169.5	143.1	116.7	96.0	77.2	67.8	62.2	60.2	56.5	56.5	56.5
72.5°	113.0	96.0	79.0	62.2	50.8	41.4	39.5	35.8	32.0	33.9	37.7
75°	75.3	64.0	56.5	45.2	33.9	33.9	22.6	22.6	18.8	22.6	17.0
77.5°	52.7	43.3	33.9	28.2	22.6	20.7	15.0	15.0	13.2	13.2	13.2
80°	37.7	32.0	24.5	20.7	15.0	15.0	13.2	11.3	9.4	9.4	11.3
82.5°	22.6	17.0	17.0	15.0	9.4	7.5	5.7	7.5	3.8	3.8	3.8
85°	13.2	11.3	9.4	5.7	3.8	3.8	1.9	0.0	1.9	1.9	0.0
87.5°	7.5	3.8	3.8	1.9	0.0	1.9	1.9	0.0	0.0	0.0	3.8
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°	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9
2.5°	3878.5	3876.6	3880.4	3880.4	3891.7	3889.7	3895.4	3895.4	3891.7	3893.5	3901.1
5°	3891.7	3897.3	3908.6	3918.0	3934.9	3942.5	3951.9	3961.3	3963.2	3968.9	3974.5
7.5°	3891.7	3910.5	3923.7	3940.6	3963.2	3976.4	3997.1	4014.0	4021.6	4030.9	4042.3
10°	3884.1	3902.9	3927.4	3946.2	3974.5	3995.2	4015.9	4042.3	4053.6	4068.6	4083.7
12.5°	3869.1	3889.7	3916.1	3940.6	3972.6	3991.4	4017.8	4042.3	4059.2	4079.9	4096.9
15°	3846.5	3870.9	3895.4	3919.9	3953.8	3976.4	4000.9	4029.1	4046.1	4068.6	4083.7
17.5°	3810.7	3837.0	3859.7	3882.2	3914.2	3940.6	3963.2	3989.6	4006.5	4025.4	4046.1
20°	3767.4	3791.9	3816.4	3835.2	3867.2	3889.7	3914.2	3938.7	3951.9	3955.7	3987.7
22.5°	3712.8	3729.7	3748.5	3778.7	3797.5	3818.2	3840.8	3863.4	3876.6	3897.3	3908.6
25°	3622.4	3639.4	3660.0	3673.2	3695.8	3712.8	3735.4	3759.9	3767.4	3782.5	3793.7
27.5°	3496.3	3505.7	3515.1	3526.4	3539.5	3549.0	3562.2	3573.5	3581.0	3588.5	3596.0
30°	3296.7	3296.7	3296.7	3289.1	3294.8	3300.5	3302.3	3300.5	3300.5	3298.6	3298.6
32.5°	3033.1	3018.1	3001.1	2986.1	2980.4	2972.9	2969.1	2963.4	2954.1	2948.4	2950.3
35°	2677.2	2643.4	2622.7	2603.9	2588.8	2577.5	2571.8	2566.2	2564.3	2556.8	2549.2
37.5°	2233.0	2208.5	2193.4	2182.1	2168.9	2157.6	2159.5	2161.4	2167.0	2163.3	2165.2
40°	1762.3	1756.6	1762.3	1749.1	1745.3	1749.1	1758.5	1771.7	1779.2	1786.7	1799.9
42.5°	1340.5	1349.9	1363.1	1363.1	1368.7	1376.3	1387.6	1408.3	1419.6	1432.7	1447.9
45°	1009.1	1020.5	1037.4	1043.0	1046.8	1056.2	1069.4	1086.3	1093.9	1105.2	1118.3
47.5°	777.6	785.1	794.5	803.9	813.3	817.1	830.3	830.3	839.7	847.3	851.0
50°	606.2	613.8	621.3	626.9	630.7	636.4	640.1	645.8	647.6	651.4	653.3
52.5°	474.4	483.9	483.9	487.6	493.3	498.9	497.1	498.9	500.8	500.8	506.4
55°	370.9	370.9	376.6	376.6	380.3	378.4	380.3	380.3	380.3	380.3	382.2
57.5°	276.7	278.7	284.3	280.5	278.7	282.4	278.7	282.4	280.5	284.3	278.7
60°	212.7	212.7	214.7	214.7	216.5	216.5	216.5	214.7	214.7	212.7	212.7
62.5°	160.0	161.9	163.8	161.9	161.9	161.9	160.0	160.0	158.2	156.2	156.2
65°	107.3	105.5	109.2	105.5	107.3	107.3	105.5	107.3	101.7	103.5	101.7
67.5°	77.2	75.3	73.5	75.3	73.5	71.5	71.5	73.5	75.3	69.7	69.7
70°	50.8	52.7	50.8	52.7	54.6	54.6	52.7	50.8	52.7	49.0	50.8
72.5°	32.0	32.0	32.0	32.0	32.0	33.9	33.9	33.9	30.1	30.1	28.2
75°	15.0	20.7	17.0	15.0	20.7	20.7	18.8	18.8	17.0	17.0	17.0
77.5°	15.0	11.3	11.3	11.3	11.3	11.3	11.3	11.3	9.4	11.3	9.4
80°	7.5	7.5	7.5	5.7	7.5	7.5	9.4	7.5	7.5	5.7	9.4
82.5°	3.8	3.8	3.8	0.0	1.9	3.8	3.8	1.9	3.8	3.8	1.9
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: P249067

CATALOG NUMBER: LD8B90D010 ER8B909727 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9
2.5°	3899.2	3897.3	3899.2	3901.1	3899.2	3897.3	3899.2	3901.1	3893.5	3891.7	3895.4
5°	3982.0	3982.0	3985.8	3987.7	3985.8	3982.0	3982.0	3974.5	3968.9	3963.2	3961.3
7.5°	4053.6	4057.4	4061.1	4062.9	4061.1	4057.4	4053.6	4042.3	4030.9	4021.6	4014.0
10°	4096.9	4102.5	4110.1	4113.8	4110.1	4102.5	4096.9	4083.7	4068.6	4053.6	4042.3
12.5°	4115.7	4121.4	4130.8	4128.9	4130.8	4121.4	4115.7	4096.9	4079.9	4059.2	4042.3
15°	4102.5	4110.1	4119.4	4123.2	4119.4	4110.1	4102.5	4083.7	4068.6	4046.1	4029.1
17.5°	4061.1	4072.4	4078.1	4083.7	4078.1	4072.4	4061.1	4046.1	4025.4	4006.5	3989.6
20°	4004.6	4012.2	4019.7	4021.6	4019.7	4012.2	4004.6	3987.7	3955.7	3951.9	3938.7
22.5°	3923.7	3929.3	3946.2	3940.6	3946.2	3929.3	3923.7	3908.6	3897.3	3876.6	3863.4
25°	3806.9	3812.6	3814.5	3816.4	3814.5	3812.6	3806.9	3793.7	3782.5	3767.4	3759.9
27.5°	3605.5	3605.5	3609.2	3611.1	3609.2	3605.5	3605.5	3596.0	3588.5	3581.0	3573.5
30°	3300.5	3300.5	3300.5	3309.9	3300.5	3300.5	3300.5	3298.6	3298.6	3300.5	3300.5
32.5°	2948.4	2944.6	2940.9	2944.6	2940.9	2944.6	2948.4	2950.3	2948.4	2954.1	2963.4
35°	2549.2	2547.4	2553.0	2545.5	2553.0	2547.4	2549.2	2549.2	2556.8	2564.3	2566.2
37.5°	2167.0	2163.3	2170.8	2163.3	2170.8	2163.3	2167.0	2165.2	2163.3	2167.0	2161.4
40°	1803.7	1807.4	1807.4	1822.5	1807.4	1807.4	1803.7	1799.9	1786.7	1779.2	1771.7
42.5°	1455.4	1466.7	1462.9	1474.2	1462.9	1466.7	1455.4	1447.9	1432.7	1419.6	1408.3
45°	1125.9	1133.5	1133.5	1137.2	1133.5	1133.5	1125.9	1118.3	1105.2	1093.9	1086.3
47.5°	864.2	864.2	864.2	866.1	864.2	864.2	864.2	851.0	847.3	839.7	830.3
50°	657.1	658.9	660.9	662.7	660.9	658.9	657.1	653.3	651.4	647.6	645.8
52.5°	504.6	506.4	502.7	506.4	502.7	506.4	504.6	506.4	500.8	500.8	498.9
55°	382.2	380.3	382.2	384.1	382.2	380.3	382.2	382.2	380.3	380.3	380.3
57.5°	280.5	276.7	276.7	276.7	276.7	276.7	280.5	278.7	284.3	280.5	282.4
60°	209.0	210.9	210.9	212.7	210.9	210.9	209.0	212.7	212.7	214.7	214.7
62.5°	154.4	160.0	156.2	160.0	156.2	160.0	154.4	156.2	156.2	158.2	160.0
65°	99.8	99.8	99.8	101.7	99.8	99.8	99.8	101.7	103.5	101.7	107.3
67.5°	67.8	69.7	73.5	71.5	73.5	69.7	67.8	69.7	69.7	75.3	73.5
70°	54.6	49.0	49.0	54.6	49.0	49.0	54.6	50.8	49.0	52.7	50.8
72.5°	32.0	28.2	32.0	32.0	32.0	28.2	32.0	28.2	30.1	30.1	33.9
75°	17.0	15.0	13.2	18.8	13.2	15.0	17.0	17.0	17.0	17.0	18.8
77.5°	11.3	9.4	13.2	13.2	13.2	9.4	11.3	9.4	11.3	9.4	11.3
80°	5.7	7.5	5.7	9.4	5.7	7.5	5.7	9.4	5.7	7.5	7.5
82.5°	1.9	3.8	3.8	3.8	3.8	3.8	1.9	1.9	3.8	3.8	1.9
85°	0.0	3.8	1.9	1.9	1.9	3.8	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.0	0.0	1.9	0.0	0.0	1.9	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: P249067

CATALOG NUMBER: LD8B90D010 ER8B909727 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9
2.5°	3895.4	3889.7	3891.7	3880.4	3880.4	3876.6	3878.5	3869.1	3865.3	3861.5	3867.2
5°	3951.9	3942.5	3934.9	3918.0	3908.6	3897.3	3891.7	3876.6	3863.4	3852.1	3850.2
7.5°	3997.1	3976.4	3963.2	3940.6	3923.7	3910.5	3891.7	3870.9	3854.0	3838.9	3827.7
10°	4015.9	3995.2	3974.5	3946.2	3927.4	3902.9	3884.1	3857.7	3835.2	3814.5	3801.2
12.5°	4017.8	3991.4	3972.6	3940.6	3916.1	3889.7	3869.1	3838.9	3812.6	3791.9	3771.2
15°	4000.9	3976.4	3953.8	3919.9	3895.4	3870.9	3846.5	3814.5	3790.0	3765.5	3750.5
17.5°	3963.2	3940.6	3914.2	3882.2	3859.7	3837.0	3810.7	3784.3	3756.1	3729.7	3710.9
20°	3914.2	3889.7	3867.2	3835.2	3816.4	3791.9	3767.4	3739.2	3716.5	3690.2	3669.5
22.5°	3840.8	3818.2	3797.5	3778.7	3748.5	3729.7	3712.8	3680.8	3658.2	3633.7	3611.1
25°	3735.4	3712.8	3695.8	3673.2	3660.0	3639.4	3622.4	3594.2	3573.5	3550.9	3532.0
27.5°	3562.2	3549.0	3539.5	3526.4	3515.1	3505.7	3496.3	3473.7	3458.6	3437.9	3419.1
30°	3302.3	3300.5	3294.8	3289.1	3296.7	3296.7	3296.7	3292.9	3279.8	3264.7	3251.5
32.5°	2969.1	2972.9	2980.4	2986.1	3001.1	3018.1	3033.1	3040.6	3040.6	3031.2	3025.6
35°	2571.8	2577.5	2588.8	2603.9	2622.7	2643.4	2677.2	2684.8	2690.4	2690.4	2682.9
37.5°	2159.5	2157.6	2168.9	2182.1	2193.4	2208.5	2233.0	2238.6	2248.0	2244.3	2236.7
40°	1758.5	1749.1	1745.3	1749.1	1762.3	1756.6	1762.3	1758.5	1758.5	1745.3	1745.3
42.5°	1387.6	1376.3	1368.7	1363.1	1363.1	1349.9	1340.5	1331.1	1325.5	1316.0	1314.2
45°	1069.4	1056.2	1046.8	1043.0	1037.4	1020.5	1009.1	997.8	984.7	980.9	982.8
47.5°	830.3	817.1	813.3	803.9	794.5	785.1	777.6	764.4	762.5	755.0	762.5
50°	640.1	636.4	630.7	626.9	621.3	613.8	606.2	598.7	594.9	594.9	596.8
52.5°	497.1	498.9	493.3	487.6	483.9	483.9	474.4	472.6	472.6	465.1	472.6
55°	380.3	378.4	380.3	376.6	376.6	370.9	370.9	365.2	365.2	359.6	363.4
57.5°	278.7	282.4	278.7	280.5	284.3	278.7	276.7	271.1	274.9	271.1	273.0
60°	216.5	216.5	216.5	214.7	214.7	212.7	212.7	210.9	210.9	207.1	210.9
62.5°	160.0	161.9	161.9	161.9	163.8	161.9	160.0	161.9	160.0	160.0	161.9
65°	105.5	107.3	107.3	105.5	109.2	105.5	107.3	109.2	111.1	109.2	111.1
67.5°	71.5	71.5	73.5	75.3	73.5	75.3	77.2	75.3	77.2	81.0	77.2
70°	52.7	54.6	54.6	52.7	50.8	52.7	50.8	56.5	56.5	56.5	60.2
72.5°	33.9	33.9	32.0	32.0	32.0	32.0	32.0	37.7	33.9	32.0	35.8
75°	18.8	20.7	20.7	15.0	17.0	20.7	15.0	17.0	22.6	18.8	22.6
77.5°	11.3	11.3	11.3	11.3	11.3	11.3	15.0	13.2	13.2	13.2	15.0
80°	9.4	7.5	7.5	5.7	7.5	7.5	7.5	11.3	9.4	9.4	11.3
82.5°	3.8	3.8	1.9	0.0	3.8	3.8	3.8	3.8	3.8	3.8	7.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	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: P249067

CATALOG NUMBER: LD8B90D010 ER8B909727 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9
2.5°	3852.1	3852.1	3850.2	3846.5	3838.9	3838.9	3837.0	3831.4	3827.7	3825.7	3825.7
5°	3833.2	3825.7	3818.2	3797.5	3797.5	3793.7	3782.5	3774.9	3771.2	3761.7	3758.0
7.5°	3816.4	3793.7	3780.6	3767.4	3750.5	3742.9	3729.7	3724.1	3710.9	3701.5	3695.8
10°	3774.9	3759.9	3742.9	3722.2	3709.0	3694.0	3678.9	3667.6	3650.7	3641.2	3633.7
12.5°	3746.7	3724.1	3709.0	3686.4	3663.8	3650.7	3630.0	3616.8	3599.8	3581.0	3569.7
15°	3720.3	3695.8	3675.2	3650.7	3626.2	3611.1	3586.7	3571.6	3547.1	3528.3	3515.1
17.5°	3680.8	3660.0	3637.5	3607.3	3584.8	3566.0	3539.5	3520.8	3498.2	3473.7	3460.5
20°	3639.4	3614.9	3592.3	3562.2	3539.5	3517.0	3490.6	3469.9	3443.5	3421.0	3405.9
22.5°	3584.8	3556.5	3537.7	3507.5	3481.2	3456.8	3432.3	3407.8	3383.3	3364.5	3347.5
25°	3505.7	3475.5	3454.8	3430.3	3405.9	3387.1	3357.0	3341.9	3317.4	3300.5	3283.5
27.5°	3392.7	3370.1	3351.3	3326.8	3306.1	3291.1	3268.5	3253.4	3232.7	3217.6	3204.4
30°	3227.1	3208.2	3191.3	3166.8	3151.7	3138.6	3117.8	3104.6	3089.6	3072.6	3068.9
32.5°	3004.9	2989.8	2972.9	2955.9	2944.6	2937.1	2920.1	2912.6	2897.6	2888.1	2878.7
35°	2669.7	2656.6	2647.2	2639.7	2635.9	2637.7	2634.0	2641.5	2645.2	2643.4	2645.2
37.5°	2231.1	2223.5	2227.3	2233.0	2251.8	2276.3	2298.8	2332.7	2355.3	2378.0	2398.6
40°	1741.6	1747.2	1762.3	1796.1	1845.1	1899.7	1950.6	2014.6	2078.6	2123.8	2165.2
42.5°	1314.2	1331.1	1368.7	1417.7	1491.2	1572.1	1651.2	1745.3	1822.5	1897.8	1950.6
45°	988.5	1011.0	1060.0	1127.8	1208.7	1302.9	1402.7	1508.1	1600.4	1677.5	1735.9
47.5°	770.1	790.8	839.7	911.3	1011.0	1109.0	1212.5	1321.7	1417.7	1493.0	1543.9
50°	608.1	634.5	677.8	753.1	852.9	956.5	1063.8	1171.0	1261.5	1325.5	1370.7
52.5°	478.2	502.7	544.1	623.2	724.9	828.4	928.2	1033.6	1112.7	1174.8	1205.0
55°	370.9	393.5	436.8	502.7	598.7	700.4	800.1	890.6	964.0	1009.1	1037.4
57.5°	282.4	299.4	329.5	395.4	482.0	576.1	660.9	751.2	807.7	839.7	858.5
60°	214.7	227.8	259.8	310.7	389.7	470.7	542.2	610.0	655.2	681.6	700.4
62.5°	161.9	177.0	199.6	242.9	303.1	369.0	429.2	480.1	517.7	534.7	547.9
65°	111.1	122.4	139.3	173.2	224.0	271.1	318.2	355.9	380.3	399.2	406.7
67.5°	82.8	90.4	99.8	126.2	161.9	199.6	231.6	257.9	284.3	291.8	305.0
70°	62.2	67.8	77.2	96.0	116.7	143.1	169.5	184.5	203.3	216.5	220.3
72.5°	39.5	41.4	50.8	62.2	79.0	96.0	113.0	126.2	137.5	145.0	148.7
75°	22.6	33.9	33.9	45.2	56.5	64.0	75.3	84.7	90.4	96.0	96.0
77.5°	15.0	20.7	22.6	28.2	33.9	43.3	52.7	58.4	64.0	65.9	65.9
80°	13.2	15.0	15.0	20.7	24.5	32.0	37.7	39.5	43.3	45.2	49.0
82.5°	5.7	7.5	9.4	15.0	17.0	17.0	22.6	24.5	28.2	30.1	30.1
85°	1.9	3.8	3.8	5.7	9.4	11.3	13.2	15.0	17.0	17.0	18.8
87.5°	1.9	1.9	0.0	1.9	3.8	3.8	7.5	7.5	7.5	11.3	11.3
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: P249067

CATALOG NUMBER: LD8B90D010 ER8B909727 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9
2.5°	3822.0	3823.9	3816.4	3814.5	3810.7	3812.6	3816.4
5°	3752.3	3754.2	3746.7	3739.2	3739.2	3737.2	3739.2
7.5°	3686.4	3688.3	3677.0	3673.2	3665.7	3667.6	3667.6
10°	3620.5	3620.5	3603.6	3601.7	3596.0	3594.2	3594.2
12.5°	3556.5	3550.9	3537.7	3530.2	3534.0	3522.6	3522.6
15°	3500.0	3490.6	3473.7	3468.0	3458.6	3454.8	3454.8
17.5°	3441.7	3434.1	3419.1	3407.8	3396.5	3394.6	3396.5
20°	3385.2	3377.6	3358.8	3351.3	3341.9	3341.9	3338.1
22.5°	3328.7	3321.2	3304.3	3298.6	3285.4	3285.4	3287.3
25°	3270.3	3264.7	3245.8	3242.1	3240.3	3232.7	3236.5
27.5°	3191.3	3187.5	3172.4	3166.8	3159.3	3157.4	3161.1
30°	3046.3	3040.6	3029.4	3023.7	3010.6	3012.4	3016.1
32.5°	2865.6	2858.0	2842.9	2837.3	2826.0	2822.2	2824.1
35°	2639.7	2634.0	2620.8	2620.8	2609.5	2605.7	2609.5
37.5°	2410.0	2415.5	2410.0	2415.5	2410.0	2408.0	2410.0
40°	2193.4	2214.1	2217.8	2238.6	2231.1	2242.3	2240.5
42.5°	1986.3	2020.2	2033.4	2050.3	2046.6	2054.1	2059.8
45°	1777.3	1805.6	1818.7	1830.1	1831.9	1835.7	1837.6
47.5°	1579.6	1602.2	1604.1	1617.3	1615.4	1615.4	1621.1
50°	1395.2	1410.2	1413.9	1423.4	1415.8	1412.0	1413.9
52.5°	1223.8	1238.8	1235.0	1238.8	1229.5	1225.7	1227.5
55°	1048.7	1056.2	1056.2	1056.2	1045.0	1045.0	1045.0
57.5°	869.8	871.7	868.0	869.8	868.0	856.6	854.8
60°	706.1	706.1	704.1	706.1	700.4	694.7	694.7
62.5°	551.6	555.4	562.9	555.4	551.6	555.4	549.8
65°	412.4	419.9	417.9	421.7	419.9	419.9	416.1
67.5°	310.7	312.5	314.4	316.3	316.3	316.3	316.3
70°	227.8	233.5	231.6	231.6	231.6	231.6	242.9
72.5°	152.5	160.0	158.2	161.9	161.9	165.7	161.9
75°	103.5	111.1	107.3	113.0	111.1	107.3	116.7
77.5°	69.7	73.5	75.3	77.2	75.3	73.5	75.3
80°	49.0	52.7	50.8	52.7	52.7	52.7	54.6
82.5°	30.1	35.8	33.9	35.8	33.9	35.8	35.8
85°	20.7	22.6	18.8	22.6	20.7	20.7	24.5
87.5°	13.2	11.3	11.3	13.2	11.3	13.2	11.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)