

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: P248851

Luminaire Tested: **LD8B90D010 ER8B909727 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248851
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 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6075.0 lumens
Efficiency: N/A
Efficacy: 70.6 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

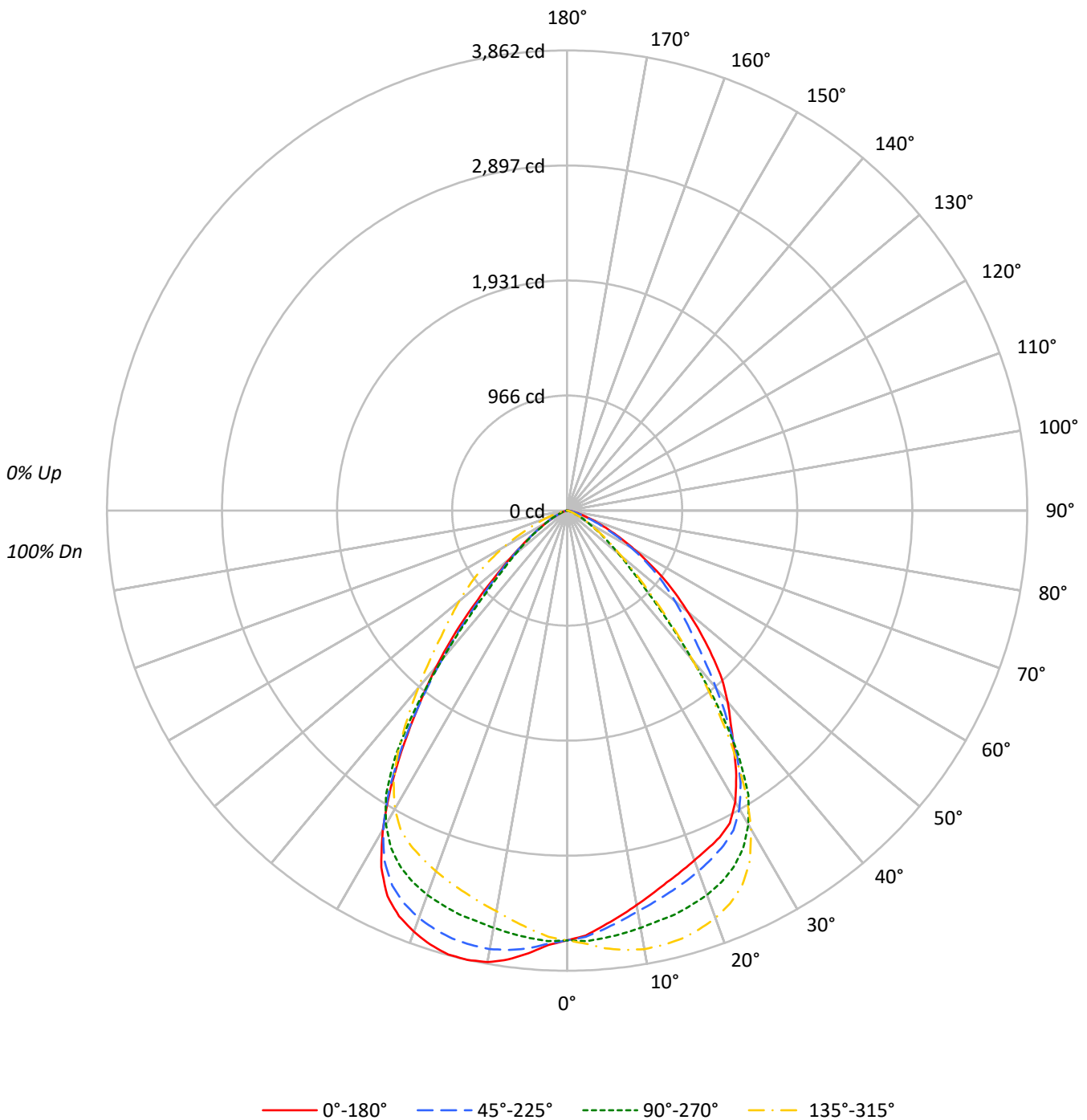
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	343.3	5.7
10°-20°	994.1	16.4
20°-30°	1505.2	24.8
30°-40°	1508.6	24.8
40°-50°	947.3	15.6
50°-60°	504.8	8.3
60°-70°	207.6	3.4
70°-80°	54.8	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°	2842.5	46.8
0°-40°	4351.1	71.6
0°-60°	5803.3	95.5
0°-90°	6075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6075.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3606	3606	3606	3606	3606	
5°	3497	3601	3730	3601	3497	330
15°	3231	3508	3857	3508	3231	914
25°	3027	3304	3570	3304	3027	1388
35°	2441	2509	2381	2509	2441	1529
45°	1719	919	1064	919	1719	1322
55°	977	340	359	340	977	871
65°	389	104	95	104	389	404
75°	109	21	18	21	109	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°	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5
2.5°	3569.6	3566.0	3564.3	3567.8	3569.6	3576.6	3574.9	3578.3	3578.3	3580.2	3583.6
5°	3497.4	3495.6	3497.4	3497.4	3504.4	3511.4	3509.7	3515.0	3518.5	3527.3	3530.8
7.5°	3430.5	3430.5	3428.7	3435.7	3439.2	3449.8	3448.0	3456.9	3462.1	3470.9	3483.2
10°	3361.8	3361.8	3363.5	3368.8	3370.6	3386.4	3386.4	3398.7	3405.8	3414.6	3430.5
12.5°	3294.9	3294.9	3305.4	3301.9	3308.9	3321.2	3326.5	3338.9	3349.4	3367.0	3382.9
15°	3231.4	3231.4	3235.0	3243.8	3249.0	3264.9	3273.7	3287.8	3300.1	3317.8	3340.7
17.5°	3176.8	3175.1	3176.8	3187.4	3198.0	3212.1	3219.1	3236.7	3249.0	3271.9	3293.1
20°	3122.3	3125.8	3125.8	3134.6	3141.6	3159.2	3166.3	3185.7	3199.8	3220.8	3245.6
22.5°	3074.7	3073.0	3073.0	3085.3	3090.6	3106.4	3113.4	3131.0	3146.9	3164.5	3187.4
25°	3027.2	3023.6	3030.7	3032.5	3035.9	3053.6	3058.8	3071.2	3087.0	3102.9	3125.8
27.5°	2956.7	2953.2	2955.0	2962.0	2967.3	2981.4	2984.9	2997.2	3009.6	3023.6	3043.0
30°	2821.1	2817.6	2815.9	2828.2	2833.5	2844.0	2849.3	2870.5	2873.9	2889.8	2903.9
32.5°	2641.5	2639.7	2643.3	2653.8	2659.1	2673.2	2680.3	2692.6	2701.3	2710.2	2724.3
35°	2440.8	2437.2	2440.8	2451.4	2451.4	2463.7	2469.0	2474.2	2472.4	2474.2	2470.7
37.5°	2254.1	2252.3	2254.1	2259.3	2254.1	2259.3	2254.1	2243.5	2224.2	2203.0	2181.9
40°	2095.6	2097.3	2086.8	2093.9	2074.4	2071.0	2051.6	2025.1	1986.4	1944.2	1884.3
42.5°	1926.6	1921.3	1914.2	1917.7	1901.9	1889.5	1857.8	1824.4	1775.1	1704.7	1632.4
45°	1718.8	1717.0	1713.5	1711.7	1701.1	1688.8	1662.4	1623.7	1569.1	1496.9	1410.5
47.5°	1516.2	1510.9	1510.9	1512.7	1500.4	1498.6	1477.5	1444.0	1396.5	1326.0	1236.2
50°	1322.5	1320.7	1324.3	1331.3	1322.5	1319.0	1304.9	1282.0	1239.8	1179.9	1095.3
52.5°	1148.2	1146.4	1150.0	1158.7	1155.2	1158.7	1144.7	1127.1	1098.9	1040.7	966.8
55°	977.4	977.4	977.4	987.9	987.9	987.9	980.9	970.3	943.9	901.6	833.0
57.5°	799.5	801.2	811.8	813.6	811.8	815.4	813.6	803.0	785.4	755.5	702.7
60°	649.8	649.8	655.1	660.4	658.6	660.4	660.4	655.1	637.5	612.9	570.6
62.5°	514.2	519.5	515.9	519.5	526.5	519.5	515.9	512.5	500.1	484.3	449.0
65°	389.2	392.7	392.7	394.5	390.9	392.7	385.7	380.4	373.4	355.8	332.8
67.5°	295.9	295.9	295.9	295.9	294.1	292.3	290.6	285.3	273.0	265.9	241.2
70°	227.2	216.6	216.6	216.6	216.6	218.4	213.1	206.1	202.5	190.2	172.6
72.5°	151.4	155.0	151.4	151.4	147.9	149.7	142.6	139.1	135.6	128.6	118.0
75°	109.2	100.4	103.9	105.7	100.4	103.9	96.8	89.8	89.8	84.5	79.2
77.5°	70.5	68.7	70.5	72.2	70.5	68.7	65.2	61.6	61.6	59.9	54.6
80°	51.1	49.3	49.3	49.3	47.5	49.3	45.8	45.8	42.3	40.5	37.0
82.5°	33.5	33.5	31.7	33.5	31.7	33.5	28.2	28.2	28.2	26.4	22.9
85°	22.9	19.4	19.4	21.2	17.6	21.2	19.4	17.6	15.9	15.9	14.1
87.5°	10.6	12.3	10.6	12.3	10.6	10.6	12.3	10.6	10.6	7.0	7.0
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°	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5
2.5°	3588.9	3590.7	3590.7	3597.8	3601.2	3603.0	3603.0	3617.1	3611.8	3615.4	3618.9
5°	3537.9	3548.4	3552.0	3552.0	3571.3	3578.3	3585.4	3601.2	3603.0	3613.6	3625.9
7.5°	3488.5	3500.9	3508.0	3523.8	3536.1	3548.4	3569.6	3580.2	3590.7	3604.8	3620.6
10°	3441.0	3455.1	3469.2	3481.5	3500.9	3516.7	3530.8	3555.4	3567.8	3587.2	3608.3
12.5°	3395.2	3414.6	3426.9	3448.0	3469.2	3483.2	3504.4	3527.3	3546.7	3566.0	3590.7
15°	3354.7	3377.6	3391.7	3414.6	3437.5	3456.9	3479.8	3508.0	3522.0	3544.9	3567.8
17.5°	3310.7	3335.4	3353.0	3374.1	3402.3	3423.4	3442.8	3470.9	3488.5	3513.2	3539.6
20°	3264.9	3289.6	3310.7	3331.8	3360.0	3381.1	3404.0	3432.2	3451.6	3476.2	3497.4
22.5°	3210.3	3233.2	3256.1	3280.7	3308.9	3326.5	3353.0	3377.6	3398.7	3421.6	3442.8
25°	3139.9	3168.1	3185.7	3208.5	3231.4	3250.8	3279.0	3303.6	3321.2	3342.4	3361.8
27.5°	3057.1	3078.3	3092.3	3111.7	3134.6	3152.2	3173.3	3198.0	3215.6	3235.0	3249.0
30°	2916.2	2935.6	2947.9	2962.0	2984.9	3000.8	3018.4	3041.2	3053.6	3067.7	3080.0
32.5°	2731.3	2747.2	2754.2	2764.8	2780.6	2796.4	2810.6	2829.9	2835.2	2844.0	2844.0
35°	2463.7	2467.2	2465.4	2469.0	2476.0	2484.8	2497.1	2509.4	2516.4	2516.4	2511.2
37.5°	2150.2	2129.1	2106.2	2088.6	2083.3	2079.7	2086.8	2092.0	2099.1	2102.6	2093.9
40°	1824.4	1776.9	1725.8	1680.0	1648.3	1634.2	1628.9	1632.4	1632.4	1644.7	1644.7
42.5°	1544.4	1470.4	1394.7	1326.0	1280.2	1245.1	1229.2	1229.2	1230.9	1239.8	1245.1
45°	1312.0	1218.6	1130.5	1054.9	991.4	945.6	924.5	919.2	917.5	921.0	933.3
47.5°	1134.1	1037.3	945.6	852.3	785.4	739.6	720.3	713.2	706.1	713.2	715.0
50°	995.0	894.6	797.8	704.4	633.9	593.4	568.8	558.2	556.5	556.5	560.0
52.5°	868.1	774.9	678.0	582.9	508.9	470.2	447.3	442.0	435.0	442.0	442.0
55°	748.4	655.1	560.0	470.2	408.5	368.1	346.9	339.9	336.3	341.6	341.6
57.5°	618.1	538.8	450.9	369.8	308.2	280.0	264.1	255.4	253.6	257.1	253.6
60°	507.2	440.3	364.5	290.6	243.0	213.1	200.8	197.2	193.7	197.2	197.2
62.5°	401.5	345.2	283.5	227.2	186.6	165.6	151.4	151.4	149.7	149.7	151.4
65°	297.6	253.6	209.6	162.0	130.3	114.5	103.9	103.9	102.1	103.9	102.1
67.5°	216.6	186.6	151.4	118.0	93.4	84.5	77.5	72.2	75.7	72.2	70.5
70°	158.5	133.8	109.2	89.8	72.2	63.4	58.1	56.3	52.8	52.8	52.8
72.5°	105.7	89.8	73.9	58.1	47.5	38.7	37.0	33.5	29.9	31.7	35.2
75°	70.5	59.9	52.8	42.3	31.7	31.7	21.2	21.2	17.6	21.2	15.9
77.5°	49.3	40.5	31.7	26.4	21.2	19.4	14.1	14.1	12.3	12.3	12.3
80°	35.2	29.9	22.9	19.4	14.1	14.1	12.3	10.6	8.8	8.8	10.6
82.5°	21.2	15.9	15.9	14.1	8.8	7.0	5.3	7.0	3.6	3.6	3.6
85°	12.3	10.6	8.8	5.3	3.6	3.6	1.7	0.0	1.7	1.7	0.0
87.5°	7.0	3.6	3.6	1.7	0.0	1.7	1.7	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°	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5
2.5°	3627.7	3625.9	3629.4	3629.4	3640.0	3638.2	3643.5	3643.5	3640.0	3641.8	3648.8
5°	3640.0	3645.3	3655.8	3664.7	3680.5	3687.6	3696.3	3705.2	3706.9	3712.2	3717.5
7.5°	3640.0	3657.6	3670.0	3685.8	3706.9	3719.2	3738.6	3754.5	3761.5	3770.3	3780.9
10°	3632.9	3650.5	3673.4	3691.1	3717.5	3736.9	3756.2	3780.9	3791.4	3805.5	3819.6
12.5°	3618.9	3638.2	3662.9	3685.8	3715.7	3733.3	3758.0	3780.9	3796.7	3816.1	3832.0
15°	3597.8	3620.6	3643.5	3666.4	3698.1	3719.2	3742.2	3768.5	3784.4	3805.5	3819.6
17.5°	3564.3	3588.9	3610.1	3631.2	3661.1	3685.8	3706.9	3731.6	3747.4	3765.1	3784.4
20°	3523.8	3546.7	3569.6	3587.2	3617.1	3638.2	3661.1	3684.0	3696.3	3699.9	3729.8
22.5°	3472.7	3488.5	3506.1	3534.3	3552.0	3571.3	3592.5	3613.6	3625.9	3645.3	3655.8
25°	3388.1	3404.0	3423.4	3435.7	3456.9	3472.7	3493.8	3516.7	3523.8	3537.9	3548.4
27.5°	3270.2	3279.0	3287.8	3298.3	3310.7	3319.5	3331.8	3342.4	3349.4	3356.5	3363.5
30°	3083.5	3083.5	3083.5	3076.5	3081.7	3087.0	3088.8	3087.0	3087.0	3085.3	3085.3
32.5°	2837.0	2822.9	2807.0	2793.0	2787.7	2780.6	2777.1	2771.8	2763.0	2757.7	2759.5
35°	2504.1	2472.4	2453.1	2435.5	2421.4	2410.8	2405.5	2400.2	2398.5	2391.5	2384.4
37.5°	2088.6	2065.7	2051.6	2041.0	2028.7	2018.1	2019.9	2021.7	2026.9	2023.4	2025.1
40°	1648.3	1643.0	1648.3	1636.0	1632.4	1636.0	1644.7	1657.1	1664.2	1671.2	1683.5
42.5°	1253.8	1262.6	1275.0	1275.0	1280.2	1287.3	1297.8	1317.3	1327.8	1340.1	1354.2
45°	943.9	954.5	970.3	975.6	979.1	987.9	1000.3	1016.1	1023.1	1033.7	1046.0
47.5°	727.3	734.3	743.1	752.0	760.7	764.3	776.6	776.6	785.4	792.5	796.0
50°	567.0	574.1	581.1	586.4	590.0	595.2	598.7	604.0	605.8	609.3	611.0
52.5°	443.7	452.6	452.6	456.1	461.4	466.7	464.9	466.7	468.4	468.4	473.7
55°	346.9	346.9	352.2	352.2	355.8	353.9	355.8	355.8	355.8	355.8	357.5
57.5°	258.8	260.7	265.9	262.4	260.7	264.1	260.7	264.1	262.4	265.9	260.7
60°	199.0	199.0	200.8	200.8	202.5	202.5	202.5	200.8	200.8	199.0	199.0
62.5°	149.7	151.4	153.2	151.4	151.4	151.4	149.7	149.7	147.9	146.1	146.1
65°	100.4	98.7	102.1	98.7	100.4	100.4	98.7	100.4	95.1	96.8	95.1
67.5°	72.2	70.5	68.7	70.5	68.7	66.9	66.9	68.7	70.5	65.2	65.2
70°	47.5	49.3	47.5	49.3	51.1	51.1	49.3	47.5	49.3	45.8	47.5
72.5°	29.9	29.9	29.9	29.9	29.9	31.7	31.7	31.7	28.2	28.2	26.4
75°	14.1	19.4	15.9	14.1	19.4	19.4	17.6	17.6	15.9	15.9	15.9
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°	7.0	7.0	7.0	5.3	7.0	7.0	8.8	7.0	7.0	5.3	8.8
82.5°	3.6	3.6	3.6	0.0	1.7	3.6	3.6	1.7	3.6	3.6	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: P248851

CATALOG NUMBER: LD8B90D010 ER8B909727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5
2.5°	3647.1	3645.3	3647.1	3648.8	3647.1	3645.3	3647.1	3648.8	3641.8	3640.0	3643.5
5°	3724.5	3724.5	3728.0	3729.8	3728.0	3724.5	3724.5	3717.5	3712.2	3706.9	3705.2
7.5°	3791.4	3795.0	3798.5	3800.2	3798.5	3795.0	3791.4	3780.9	3770.3	3761.5	3754.5
10°	3832.0	3837.3	3844.3	3847.8	3844.3	3837.3	3832.0	3819.6	3805.5	3791.4	3780.9
12.5°	3849.6	3854.9	3863.6	3861.9	3863.6	3854.9	3849.6	3832.0	3816.1	3796.7	3780.9
15°	3837.3	3844.3	3853.1	3856.6	3853.1	3844.3	3837.3	3819.6	3805.5	3784.4	3768.5
17.5°	3798.5	3809.1	3814.3	3819.6	3814.3	3809.1	3798.5	3784.4	3765.1	3747.4	3731.6
20°	3745.6	3752.7	3759.8	3761.5	3759.8	3752.7	3745.6	3729.8	3699.9	3696.3	3684.0
22.5°	3670.0	3675.3	3691.1	3685.8	3691.1	3675.3	3670.0	3655.8	3645.3	3625.9	3613.6
25°	3560.7	3566.0	3567.8	3569.6	3567.8	3566.0	3560.7	3548.4	3537.9	3523.8	3516.7
27.5°	3372.3	3372.3	3375.8	3377.6	3375.8	3372.3	3372.3	3363.5	3356.5	3349.4	3342.4
30°	3087.0	3087.0	3087.0	3095.9	3087.0	3087.0	3087.0	3085.3	3085.3	3087.0	3087.0
32.5°	2757.7	2754.2	2750.7	2754.2	2750.7	2754.2	2757.7	2759.5	2757.7	2763.0	2771.8
35°	2384.4	2382.6	2387.9	2380.9	2387.9	2382.6	2384.4	2384.4	2391.5	2398.5	2400.2
37.5°	2026.9	2023.4	2030.4	2023.4	2030.4	2023.4	2026.9	2025.1	2023.4	2026.9	2021.7
40°	1687.1	1690.6	1690.6	1704.7	1690.6	1690.6	1687.1	1683.5	1671.2	1664.2	1657.1
42.5°	1361.3	1371.8	1368.3	1378.9	1368.3	1371.8	1361.3	1354.2	1340.1	1327.8	1317.3
45°	1053.1	1060.2	1060.2	1063.6	1060.2	1060.2	1053.1	1046.0	1033.7	1023.1	1016.1
47.5°	808.3	808.3	808.3	810.1	808.3	808.3	808.3	796.0	792.5	785.4	776.6
50°	614.6	616.3	618.1	619.9	618.1	616.3	614.6	611.0	609.3	605.8	604.0
52.5°	471.9	473.7	470.2	473.7	470.2	473.7	471.9	473.7	468.4	468.4	466.7
55°	357.5	355.8	357.5	359.2	357.5	355.8	357.5	357.5	355.8	355.8	355.8
57.5°	262.4	258.8	258.8	258.8	258.8	258.8	262.4	260.7	265.9	262.4	264.1
60°	195.5	197.2	197.2	199.0	197.2	197.2	195.5	199.0	199.0	200.8	200.8
62.5°	144.4	149.7	146.1	149.7	146.1	149.7	144.4	146.1	146.1	147.9	149.7
65°	93.4	93.4	93.4	95.1	93.4	93.4	93.4	95.1	96.8	95.1	100.4
67.5°	63.4	65.2	68.7	66.9	68.7	65.2	63.4	65.2	65.2	70.5	68.7
70°	51.1	45.8	45.8	51.1	45.8	45.8	51.1	47.5	45.8	49.3	47.5
72.5°	29.9	26.4	29.9	29.9	29.9	26.4	29.9	26.4	28.2	28.2	31.7
75°	15.9	14.1	12.3	17.6	12.3	14.1	15.9	15.9	15.9	15.9	17.6
77.5°	10.6	8.8	12.3	12.3	12.3	8.8	10.6	8.8	10.6	8.8	10.6
80°	5.3	7.0	5.3	8.8	5.3	7.0	5.3	8.8	5.3	7.0	7.0
82.5°	1.7	3.6	3.6	3.6	3.6	3.6	1.7	1.7	3.6	3.6	1.7
85°	0.0	3.6	1.7	1.7	1.7	3.6	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: P248851

CATALOG NUMBER: LD8B90D010 ER8B909727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5
2.5°	3643.5	3638.2	3640.0	3629.4	3629.4	3625.9	3627.7	3618.9	3615.4	3611.8	3617.1
5°	3696.3	3687.6	3680.5	3664.7	3655.8	3645.3	3640.0	3625.9	3613.6	3603.0	3601.2
7.5°	3738.6	3719.2	3706.9	3685.8	3670.0	3657.6	3640.0	3620.6	3604.8	3590.7	3580.2
10°	3756.2	3736.9	3717.5	3691.1	3673.4	3650.5	3632.9	3608.3	3587.2	3567.8	3555.4
12.5°	3758.0	3733.3	3715.7	3685.8	3662.9	3638.2	3618.9	3590.7	3566.0	3546.7	3527.3
15°	3742.2	3719.2	3698.1	3666.4	3643.5	3620.6	3597.8	3567.8	3544.9	3522.0	3508.0
17.5°	3706.9	3685.8	3661.1	3631.2	3610.1	3588.9	3564.3	3539.6	3513.2	3488.5	3470.9
20°	3661.1	3638.2	3617.1	3587.2	3569.6	3546.7	3523.8	3497.4	3476.2	3451.6	3432.2
22.5°	3592.5	3571.3	3552.0	3534.3	3506.1	3488.5	3472.7	3442.8	3421.6	3398.7	3377.6
25°	3493.8	3472.7	3456.9	3435.7	3423.4	3404.0	3388.1	3361.8	3342.4	3321.2	3303.6
27.5°	3331.8	3319.5	3310.7	3298.3	3287.8	3279.0	3270.2	3249.0	3235.0	3215.6	3198.0
30°	3088.8	3087.0	3081.7	3076.5	3083.5	3083.5	3083.5	3080.0	3067.7	3053.6	3041.2
32.5°	2777.1	2780.6	2787.7	2793.0	2807.0	2822.9	2837.0	2844.0	2844.0	2835.2	2829.9
35°	2405.5	2410.8	2421.4	2435.5	2453.1	2472.4	2504.1	2511.2	2516.4	2516.4	2509.4
37.5°	2019.9	2018.1	2028.7	2041.0	2051.6	2065.7	2088.6	2093.9	2102.6	2099.1	2092.0
40°	1644.7	1636.0	1632.4	1636.0	1648.3	1643.0	1648.3	1644.7	1644.7	1632.4	1632.4
42.5°	1297.8	1287.3	1280.2	1275.0	1275.0	1262.6	1253.8	1245.1	1239.8	1230.9	1229.2
45°	1000.3	987.9	979.1	975.6	970.3	954.5	943.9	933.3	921.0	917.5	919.2
47.5°	776.6	764.3	760.7	752.0	743.1	734.3	727.3	715.0	713.2	706.1	713.2
50°	598.7	595.2	590.0	586.4	581.1	574.1	567.0	560.0	556.5	556.5	558.2
52.5°	464.9	466.7	461.4	456.1	452.6	452.6	443.7	442.0	442.0	435.0	442.0
55°	355.8	353.9	355.8	352.2	352.2	346.9	346.9	341.6	341.6	336.3	339.9
57.5°	260.7	264.1	260.7	262.4	265.9	260.7	258.8	253.6	257.1	253.6	255.4
60°	202.5	202.5	202.5	200.8	200.8	199.0	199.0	197.2	197.2	193.7	197.2
62.5°	149.7	151.4	151.4	151.4	153.2	151.4	149.7	151.4	149.7	149.7	151.4
65°	98.7	100.4	100.4	98.7	102.1	98.7	100.4	102.1	103.9	102.1	103.9
67.5°	66.9	66.9	68.7	70.5	68.7	70.5	72.2	70.5	72.2	75.7	72.2
70°	49.3	51.1	51.1	49.3	47.5	49.3	47.5	52.8	52.8	52.8	56.3
72.5°	31.7	31.7	29.9	29.9	29.9	29.9	29.9	35.2	31.7	29.9	33.5
75°	17.6	19.4	19.4	14.1	15.9	19.4	14.1	15.9	21.2	17.6	21.2
77.5°	10.6	10.6	10.6	10.6	10.6	10.6	14.1	12.3	12.3	12.3	14.1
80°	8.8	7.0	7.0	5.3	7.0	7.0	7.0	10.6	8.8	8.8	10.6
82.5°	3.6	3.6	1.7	0.0	3.6	3.6	3.6	3.6	3.6	3.6	7.0
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	3.6	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: P248851

CATALOG NUMBER: LD8B90D010 ER8B909727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5
2.5°	3603.0	3603.0	3601.2	3597.8	3590.7	3590.7	3588.9	3583.6	3580.2	3578.3	3578.3
5°	3585.4	3578.3	3571.3	3552.0	3552.0	3548.4	3537.9	3530.8	3527.3	3518.5	3515.0
7.5°	3569.6	3548.4	3536.1	3523.8	3508.0	3500.9	3488.5	3483.2	3470.9	3462.1	3456.9
10°	3530.8	3516.7	3500.9	3481.5	3469.2	3455.1	3441.0	3430.5	3414.6	3405.8	3398.7
12.5°	3504.4	3483.2	3469.2	3448.0	3426.9	3414.6	3395.2	3382.9	3367.0	3349.4	3338.9
15°	3479.8	3456.9	3437.5	3414.6	3391.7	3377.6	3354.7	3340.7	3317.8	3300.1	3287.8
17.5°	3442.8	3423.4	3402.3	3374.1	3353.0	3335.4	3310.7	3293.1	3271.9	3249.0	3236.7
20°	3404.0	3381.1	3360.0	3331.8	3310.7	3289.6	3264.9	3245.6	3220.8	3199.8	3185.7
22.5°	3353.0	3326.5	3308.9	3280.7	3256.1	3233.2	3210.3	3187.4	3164.5	3146.9	3131.0
25°	3279.0	3250.8	3231.4	3208.5	3185.7	3168.1	3139.9	3125.8	3102.9	3087.0	3071.2
27.5°	3173.3	3152.2	3134.6	3111.7	3092.3	3078.3	3057.1	3043.0	3023.6	3009.6	2997.2
30°	3018.4	3000.8	2984.9	2962.0	2947.9	2935.6	2916.2	2903.9	2889.8	2873.9	2870.5
32.5°	2810.6	2796.4	2780.6	2764.8	2754.2	2747.2	2731.3	2724.3	2710.2	2701.3	2692.6
35°	2497.1	2484.8	2476.0	2469.0	2465.4	2467.2	2463.7	2470.7	2474.2	2472.4	2474.2
37.5°	2086.8	2079.7	2083.3	2088.6	2106.2	2129.1	2150.2	2181.9	2203.0	2224.2	2243.5
40°	1628.9	1634.2	1648.3	1680.0	1725.8	1776.9	1824.4	1884.3	1944.2	1986.4	2025.1
42.5°	1229.2	1245.1	1280.2	1326.0	1394.7	1470.4	1544.4	1632.4	1704.7	1775.1	1824.4
45°	924.5	945.6	991.4	1054.9	1130.5	1218.6	1312.0	1410.5	1496.9	1569.1	1623.7
47.5°	720.3	739.6	785.4	852.3	945.6	1037.3	1134.1	1236.2	1326.0	1396.5	1444.0
50°	568.8	593.4	633.9	704.4	797.8	894.6	995.0	1095.3	1179.9	1239.8	1282.0
52.5°	447.3	470.2	508.9	582.9	678.0	774.9	868.1	966.8	1040.7	1098.9	1127.1
55°	346.9	368.1	408.5	470.2	560.0	655.1	748.4	833.0	901.6	943.9	970.3
57.5°	264.1	280.0	308.2	369.8	450.9	538.8	618.1	702.7	755.5	785.4	803.0
60°	200.8	213.1	243.0	290.6	364.5	440.3	507.2	570.6	612.9	637.5	655.1
62.5°	151.4	165.6	186.6	227.2	283.5	345.2	401.5	449.0	484.3	500.1	512.5
65°	103.9	114.5	130.3	162.0	209.6	253.6	297.6	332.8	355.8	373.4	380.4
67.5°	77.5	84.5	93.4	118.0	151.4	186.6	216.6	241.2	265.9	273.0	285.3
70°	58.1	63.4	72.2	89.8	109.2	133.8	158.5	172.6	190.2	202.5	206.1
72.5°	37.0	38.7	47.5	58.1	73.9	89.8	105.7	118.0	128.6	135.6	139.1
75°	21.2	31.7	31.7	42.3	52.8	59.9	70.5	79.2	84.5	89.8	89.8
77.5°	14.1	19.4	21.2	26.4	31.7	40.5	49.3	54.6	59.9	61.6	61.6
80°	12.3	14.1	14.1	19.4	22.9	29.9	35.2	37.0	40.5	42.3	45.8
82.5°	5.3	7.0	8.8	14.1	15.9	15.9	21.2	22.9	26.4	28.2	28.2
85°	1.7	3.6	3.6	5.3	8.8	10.6	12.3	14.1	15.9	15.9	17.6
87.5°	1.7	1.7	0.0	1.7	3.6	3.6	7.0	7.0	7.0	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: P248851

CATALOG NUMBER: LD8B90D010 ER8B909727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5	3606.5
2.5°	3574.9	3576.6	3569.6	3567.8	3564.3	3566.0	3569.6
5°	3509.7	3511.4	3504.4	3497.4	3497.4	3495.6	3497.4
7.5°	3448.0	3449.8	3439.2	3435.7	3428.7	3430.5	3430.5
10°	3386.4	3386.4	3370.6	3368.8	3363.5	3361.8	3361.8
12.5°	3326.5	3321.2	3308.9	3301.9	3305.4	3294.9	3294.9
15°	3273.7	3264.9	3249.0	3243.8	3235.0	3231.4	3231.4
17.5°	3219.1	3212.1	3198.0	3187.4	3176.8	3175.1	3176.8
20°	3166.3	3159.2	3141.6	3134.6	3125.8	3125.8	3122.3
22.5°	3113.4	3106.4	3090.6	3085.3	3073.0	3073.0	3074.7
25°	3058.8	3053.6	3035.9	3032.5	3030.7	3023.6	3027.2
27.5°	2984.9	2981.4	2967.3	2962.0	2955.0	2953.2	2956.7
30°	2849.3	2844.0	2833.5	2828.2	2815.9	2817.6	2821.1
32.5°	2680.3	2673.2	2659.1	2653.8	2643.3	2639.7	2641.5
35°	2469.0	2463.7	2451.4	2451.4	2440.8	2437.2	2440.8
37.5°	2254.1	2259.3	2254.1	2259.3	2254.1	2252.3	2254.1
40°	2051.6	2071.0	2074.4	2093.9	2086.8	2097.3	2095.6
42.5°	1857.8	1889.5	1901.9	1917.7	1914.2	1921.3	1926.6
45°	1662.4	1688.8	1701.1	1711.7	1713.5	1717.0	1718.8
47.5°	1477.5	1498.6	1500.4	1512.7	1510.9	1510.9	1516.2
50°	1304.9	1319.0	1322.5	1331.3	1324.3	1320.7	1322.5
52.5°	1144.7	1158.7	1155.2	1158.7	1150.0	1146.4	1148.2
55°	980.9	987.9	987.9	987.9	977.4	977.4	977.4
57.5°	813.6	815.4	811.8	813.6	811.8	801.2	799.5
60°	660.4	660.4	658.6	660.4	655.1	649.8	649.8
62.5°	515.9	519.5	526.5	519.5	515.9	519.5	514.2
65°	385.7	392.7	390.9	394.5	392.7	392.7	389.2
67.5°	290.6	292.3	294.1	295.9	295.9	295.9	295.9
70°	213.1	218.4	216.6	216.6	216.6	216.6	227.2
72.5°	142.6	149.7	147.9	151.4	151.4	155.0	151.4
75°	96.8	103.9	100.4	105.7	103.9	100.4	109.2
77.5°	65.2	68.7	70.5	72.2	70.5	68.7	70.5
80°	45.8	49.3	47.5	49.3	49.3	49.3	51.1
82.5°	28.2	33.5	31.7	33.5	31.7	33.5	33.5
85°	19.4	21.2	17.6	21.2	19.4	19.4	22.9
87.5°	12.3	10.6	10.6	12.3	10.6	12.3	10.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)