

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: P248569

Luminaire Tested: **LD8B60D010 ER8B60840 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248569  
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 ER8B60840 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6197.0 lumens  
Efficiency: N/A  
Efficacy: 104.2 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

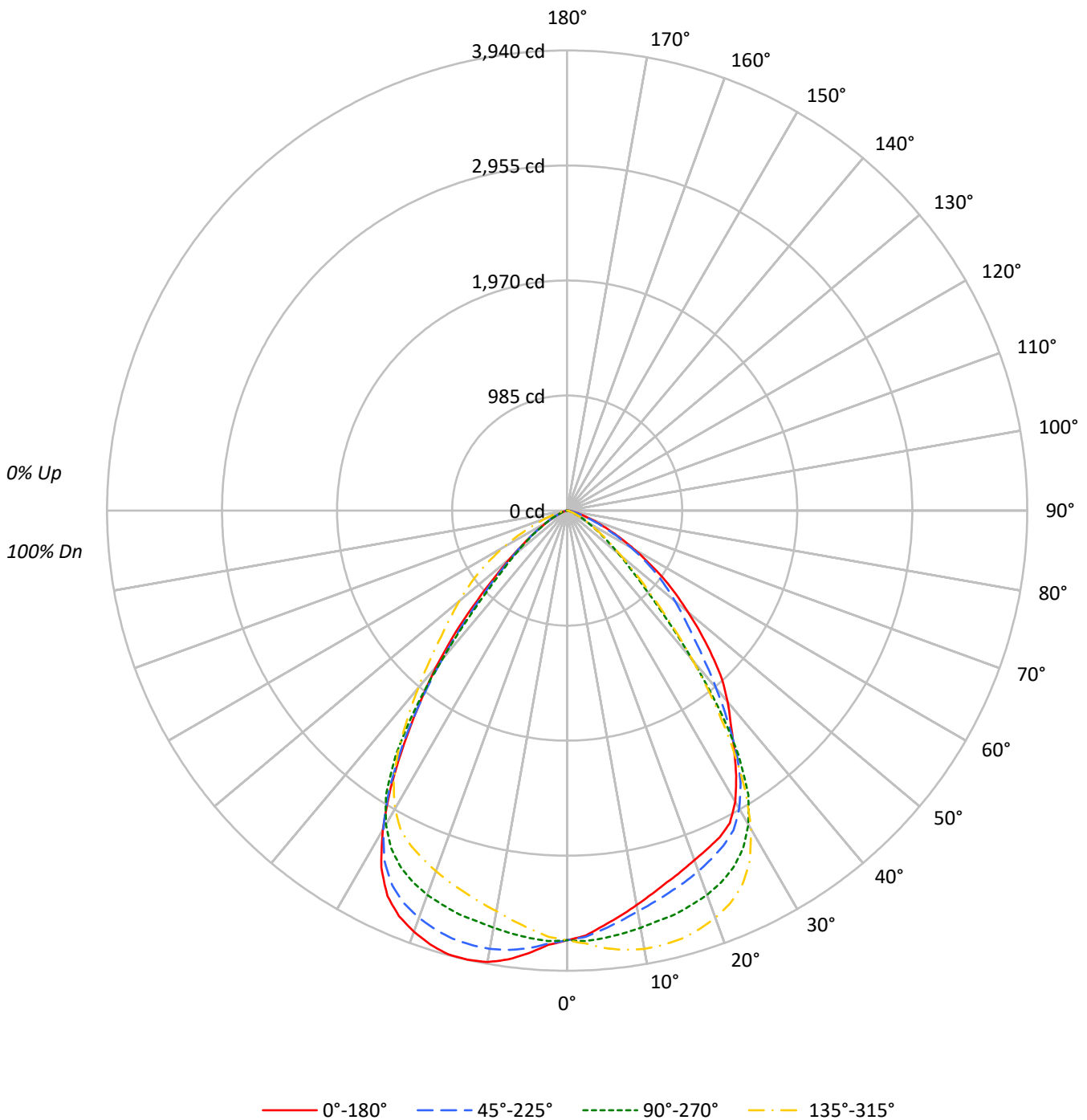
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	113447	113447	113447	113447
5°	110432	113713	117771	113713
10°	107378	113562	122900	113562
15°	105231	114237	125593	114237
20°	104517	114890	125912	114890
25°	105066	114661	123892	114661
30°	102465	110463	112450	110463
35°	93727	96362	91426	96362
40°	86051	67031	69998	67031
45°	76460	40892	47316	40892
50°	64715	27316	30333	27316
55°	53600	18639	19698	18639
60°	40883	12409	12520	12409
65°	28967	7734	7078	7734
70°	20890	5184	4697	5184
75°	13272	2573	2145	2573
80°	9252	1918	1580	1918
85°	8279	0	637	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.2	5.7
10°-20°	1014.0	16.4
20°-30°	1535.4	24.8
30°-40°	1538.9	24.8
40°-50°	966.3	15.6
50°-60°	515.0	8.3
60°-70°	211.8	3.4
70°-80°	55.9	0.9
80°-90°	9.5	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°	2899.6	46.8
0°-40°	4438.5	71.6
0°-60°	5919.8	95.5
0°-90°	6197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6197.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3679	3679	3679	3679	3679	
5°	3568	3674	3805	3674	3568	336
15°	3296	3578	3934	3578	3296	932
25°	3088	3370	3641	3370	3088	1416
35°	2490	2560	2429	2560	2490	1560
45°	1753	938	1085	938	1753	1348
55°	997	347	366	347	997	889
65°	397	106	97	106	397	412
75°	111	22	18	22	111	126
85°	23	0	2	0	23	26
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°	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0
2.5°	3641.3	3637.6	3635.9	3639.5	3641.3	3648.4	3646.7	3650.2	3650.2	3652.0	3655.6
5°	3567.6	3565.8	3567.6	3567.6	3574.8	3582.0	3580.2	3585.6	3589.1	3598.1	3601.7
7.5°	3499.4	3499.4	3497.5	3504.7	3508.3	3519.1	3517.3	3526.3	3531.7	3540.6	3553.2
10°	3429.3	3429.3	3431.0	3436.4	3438.3	3454.4	3454.4	3467.0	3474.1	3483.2	3499.4
12.5°	3361.0	3361.0	3371.8	3368.2	3375.4	3387.9	3393.3	3405.9	3416.7	3434.7	3450.9
15°	3296.3	3296.3	3299.9	3308.9	3314.3	3330.5	3339.4	3353.8	3366.4	3384.4	3407.8
17.5°	3240.6	3238.9	3240.6	3251.4	3262.2	3276.6	3283.8	3301.7	3314.3	3337.7	3359.2
20°	3185.0	3188.6	3188.6	3197.5	3204.7	3222.7	3229.9	3249.7	3264.0	3285.5	3310.7
22.5°	3136.5	3134.7	3134.7	3147.3	3152.7	3168.8	3175.9	3193.9	3210.1	3228.1	3251.4
25°	3088.0	3084.3	3091.6	3093.4	3096.9	3114.9	3120.3	3132.8	3149.0	3165.2	3188.6
27.5°	3016.1	3012.5	3014.3	3021.5	3026.9	3041.2	3044.9	3057.4	3070.0	3084.3	3104.2
30°	2877.7	2874.2	2872.4	2885.0	2890.4	2901.1	2906.5	2928.1	2931.7	2947.8	2962.2
32.5°	2694.5	2692.7	2696.4	2707.1	2712.5	2726.9	2734.1	2746.7	2755.6	2764.6	2779.0
35°	2489.8	2486.2	2489.8	2500.6	2500.6	2513.1	2518.5	2523.9	2522.1	2523.9	2520.3
37.5°	2299.4	2297.5	2299.4	2304.7	2299.4	2304.7	2299.4	2288.6	2268.9	2247.3	2225.7
40°	2137.7	2139.5	2128.7	2135.9	2116.1	2112.5	2092.8	2065.8	2026.3	1983.2	1922.1
42.5°	1965.3	1959.9	1952.7	1956.2	1940.1	1927.5	1895.2	1861.1	1810.7	1738.9	1665.2
45°	1753.3	1751.5	1747.9	1746.1	1735.3	1722.7	1695.7	1656.3	1600.6	1526.9	1438.9
47.5°	1546.7	1541.3	1541.3	1543.1	1530.5	1528.7	1507.1	1473.0	1424.5	1352.7	1261.0
50°	1349.0	1347.3	1350.9	1358.1	1349.0	1345.5	1331.1	1307.8	1264.7	1203.6	1117.3
52.5°	1171.2	1169.4	1173.1	1182.0	1178.4	1182.0	1167.7	1149.7	1120.9	1061.6	986.2
55°	997.0	997.0	997.0	1007.7	1007.7	1007.7	1000.6	989.8	962.8	919.7	849.7
57.5°	815.6	817.3	828.1	829.9	828.1	831.8	829.9	819.1	801.2	770.7	716.8
60°	662.9	662.9	668.3	673.7	671.8	673.7	673.7	668.3	650.3	625.2	582.1
62.5°	524.5	529.9	526.3	529.9	537.1	529.9	526.3	522.8	510.2	494.0	458.1
65°	397.0	400.6	400.6	402.4	398.8	400.6	393.4	388.0	380.9	362.9	339.5
67.5°	301.8	301.8	301.8	301.8	300.0	298.2	296.4	291.0	278.5	271.3	246.1
70°	231.7	220.9	220.9	220.9	220.9	222.8	217.4	210.2	206.6	194.0	176.1
72.5°	154.5	158.1	154.5	154.5	150.9	152.7	145.5	141.9	138.3	131.2	120.4
75°	111.4	102.4	106.0	107.8	102.4	106.0	98.8	91.6	91.6	86.2	80.8
77.5°	71.9	70.1	71.9	73.6	71.9	70.1	66.5	62.8	62.8	61.1	55.7
80°	52.1	50.3	50.3	50.3	48.5	50.3	46.7	46.7	43.1	41.3	37.7
82.5°	34.2	34.2	32.3	34.2	32.3	34.2	28.8	28.8	28.8	26.9	23.4
85°	23.4	19.7	19.7	21.6	18.0	21.6	19.7	18.0	16.2	16.2	14.3
87.5°	10.8	12.6	10.8	12.6	10.8	10.8	12.6	10.8	10.8	7.2	7.2
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°	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0
2.5°	3661.0	3662.8	3662.8	3670.0	3673.6	3675.3	3675.3	3689.8	3684.4	3688.0	3691.5
5°	3608.9	3619.7	3623.3	3623.3	3643.0	3650.2	3657.4	3673.6	3675.3	3686.1	3698.7
7.5°	3558.6	3571.2	3578.4	3594.5	3607.1	3619.7	3641.3	3652.0	3662.8	3677.2	3693.3
10°	3510.1	3524.5	3538.8	3551.4	3571.2	3587.4	3601.7	3626.8	3639.5	3659.2	3680.7
12.5°	3463.4	3483.2	3495.7	3517.3	3538.8	3553.2	3574.8	3598.1	3617.9	3637.6	3662.8
15°	3422.1	3445.5	3459.8	3483.2	3506.5	3526.3	3549.6	3578.4	3592.7	3616.1	3639.5
17.5°	3377.1	3402.4	3420.3	3441.8	3470.6	3492.1	3511.9	3540.6	3558.6	3583.7	3610.7
20°	3330.5	3355.6	3377.1	3398.7	3427.5	3449.0	3472.4	3501.1	3520.9	3546.0	3567.6
22.5°	3274.8	3298.2	3321.5	3346.6	3375.4	3393.3	3420.3	3445.5	3467.0	3490.3	3511.9
25°	3202.9	3231.7	3249.7	3273.0	3296.3	3316.1	3344.8	3370.0	3387.9	3409.5	3429.3
27.5°	3118.5	3140.1	3154.4	3174.2	3197.5	3215.5	3237.0	3262.2	3280.2	3299.9	3314.3
30°	2974.8	2994.6	3007.1	3021.5	3044.9	3061.0	3079.0	3102.3	3114.9	3129.3	3141.9
32.5°	2786.1	2802.3	2809.5	2820.3	2836.5	2852.6	2867.0	2886.8	2892.2	2901.1	2901.1
35°	2513.1	2516.7	2514.9	2518.5	2525.7	2534.7	2547.2	2559.8	2567.0	2567.0	2561.7
37.5°	2193.4	2171.8	2148.5	2130.5	2125.1	2121.5	2128.7	2134.1	2141.3	2144.9	2135.9
40°	1861.1	1812.6	1760.4	1713.7	1681.4	1667.1	1661.7	1665.2	1665.2	1677.8	1677.8
42.5°	1575.4	1499.9	1422.8	1352.7	1305.9	1270.1	1253.9	1253.9	1255.7	1264.7	1270.1
45°	1338.3	1243.1	1153.2	1076.0	1011.4	964.6	943.1	937.7	935.9	939.5	952.1
47.5°	1156.9	1058.1	964.6	869.5	801.2	754.5	734.7	727.5	720.3	727.5	729.3
50°	1015.0	912.6	813.8	718.5	646.7	605.3	580.2	569.4	567.6	567.6	571.3
52.5°	885.6	790.4	691.6	594.6	519.1	479.6	456.3	450.9	443.7	450.9	450.9
55°	763.4	668.3	571.3	479.6	416.7	375.5	353.9	346.7	343.1	348.5	348.5
57.5°	630.6	549.7	459.9	377.2	314.4	285.6	269.4	260.5	258.6	262.3	258.6
60°	517.4	449.1	371.8	296.4	247.9	217.4	204.8	201.2	197.6	201.2	201.2
62.5°	409.6	352.1	289.2	231.7	190.4	168.9	154.5	154.5	152.7	152.7	154.5
65°	303.6	258.6	213.8	165.3	132.9	116.8	106.0	106.0	104.2	106.0	104.2
67.5°	220.9	190.4	154.5	120.4	95.2	86.2	79.0	73.6	77.3	73.6	71.9
70°	161.7	136.5	111.4	91.6	73.6	64.7	59.3	57.5	53.9	53.9	53.9
72.5°	107.8	91.6	75.4	59.3	48.5	39.5	37.7	34.2	30.5	32.3	35.9
75°	71.9	61.1	53.9	43.1	32.3	32.3	21.6	21.6	18.0	21.6	16.2
77.5°	50.3	41.3	32.3	26.9	21.6	19.7	14.3	14.3	12.6	12.6	12.6
80°	35.9	30.5	23.4	19.7	14.3	14.3	12.6	10.8	8.9	8.9	10.8
82.5°	21.6	16.2	16.2	14.3	8.9	7.2	5.4	7.2	3.6	3.6	3.6
85°	12.6	10.8	8.9	5.4	3.6	3.6	1.8	0.0	1.8	1.8	0.0
87.5°	7.2	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°	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0
2.5°	3700.6	3698.7	3702.3	3702.3	3713.1	3711.3	3716.7	3716.7	3713.1	3714.9	3722.1
5°	3713.1	3718.5	3729.2	3738.3	3754.4	3761.6	3770.6	3779.6	3781.4	3786.8	3792.2
7.5°	3713.1	3731.1	3743.7	3759.8	3781.4	3793.9	3813.7	3829.9	3837.0	3846.0	3856.8
10°	3705.9	3723.8	3747.2	3765.2	3792.2	3811.9	3831.6	3856.8	3867.6	3881.9	3896.3
12.5°	3691.5	3711.3	3736.4	3759.8	3790.3	3808.3	3833.4	3856.8	3873.0	3892.7	3908.9
15°	3670.0	3693.3	3716.7	3740.0	3772.3	3793.9	3817.3	3844.2	3860.4	3881.9	3896.3
17.5°	3635.9	3661.0	3682.6	3704.1	3734.6	3759.8	3781.4	3806.5	3822.7	3840.7	3860.4
20°	3594.5	3617.9	3641.3	3659.2	3689.8	3711.3	3734.6	3758.0	3770.6	3774.2	3804.7
22.5°	3542.5	3558.6	3576.6	3605.3	3623.3	3643.0	3664.6	3686.1	3698.7	3718.5	3729.2
25°	3456.2	3472.4	3492.1	3504.7	3526.3	3542.5	3564.0	3587.4	3594.5	3608.9	3619.7
27.5°	3335.9	3344.8	3353.8	3364.6	3377.1	3386.2	3398.7	3409.5	3416.7	3423.9	3431.0
30°	3145.4	3145.4	3145.4	3138.2	3143.6	3149.0	3150.8	3149.0	3149.0	3147.3	3147.3
32.5°	2893.9	2879.6	2863.4	2849.1	2843.7	2836.5	2832.9	2827.5	2818.5	2813.1	2814.9
35°	2554.4	2522.1	2502.4	2484.4	2470.0	2459.2	2453.8	2448.5	2446.7	2439.5	2432.3
37.5°	2130.5	2107.1	2092.8	2082.0	2069.4	2058.6	2060.4	2062.3	2067.6	2064.0	2065.8
40°	1681.4	1676.0	1681.4	1668.8	1665.2	1668.8	1677.8	1690.4	1697.6	1704.8	1717.3
42.5°	1279.0	1288.0	1300.6	1300.6	1305.9	1313.2	1323.9	1343.7	1354.4	1367.0	1381.4
45°	962.8	973.6	989.8	995.2	998.8	1007.7	1020.4	1036.5	1043.7	1054.5	1067.0
47.5°	741.9	749.1	758.0	767.1	776.0	779.6	792.2	792.2	801.2	808.4	811.9
50°	578.4	585.6	592.8	598.2	601.8	607.2	610.7	616.1	617.9	621.5	623.3
52.5°	452.7	461.7	461.7	465.2	470.6	476.0	474.3	476.0	477.8	477.8	483.2
55°	353.9	353.9	359.3	359.3	362.9	361.0	362.9	362.9	362.9	362.9	364.7
57.5°	264.0	265.9	271.3	267.7	265.9	269.4	265.9	269.4	267.7	271.3	265.9
60°	203.0	203.0	204.8	204.8	206.6	206.6	206.6	204.8	204.8	203.0	203.0
62.5°	152.7	154.5	156.3	154.5	154.5	154.5	152.7	152.7	150.9	149.1	149.1
65°	102.4	100.6	104.2	100.6	102.4	102.4	100.6	102.4	97.0	98.8	97.0
67.5°	73.6	71.9	70.1	71.9	70.1	68.2	68.2	70.1	71.9	66.5	66.5
70°	48.5	50.3	48.5	50.3	52.1	52.1	50.3	48.5	50.3	46.7	48.5
72.5°	30.5	30.5	30.5	30.5	30.5	32.3	32.3	32.3	28.8	28.8	26.9
75°	14.3	19.7	16.2	14.3	19.7	19.7	18.0	18.0	16.2	16.2	16.2
77.5°	14.3	10.8	10.8	10.8	10.8	10.8	10.8	10.8	8.9	10.8	8.9
80°	7.2	7.2	7.2	5.4	7.2	7.2	8.9	7.2	7.2	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: P248569

CATALOG NUMBER: LD8B60D010 ER8B60840 8LBSWOH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0
2.5°	3720.3	3718.5	3720.3	3722.1	3720.3	3718.5	3720.3	3722.1	3714.9	3713.1	3716.7
5°	3799.3	3799.3	3802.9	3804.7	3802.9	3799.3	3799.3	3792.2	3786.8	3781.4	3779.6
7.5°	3867.6	3871.2	3874.8	3876.5	3874.8	3871.2	3867.6	3856.8	3846.0	3837.0	3829.9
10°	3908.9	3914.3	3921.5	3925.0	3921.5	3914.3	3908.9	3896.3	3881.9	3867.6	3856.8
12.5°	3926.9	3932.3	3941.2	3939.5	3941.2	3932.3	3926.9	3908.9	3892.7	3873.0	3856.8
15°	3914.3	3921.5	3930.4	3934.1	3930.4	3921.5	3914.3	3896.3	3881.9	3860.4	3844.2
17.5°	3874.8	3885.6	3890.9	3896.3	3890.9	3885.6	3874.8	3860.4	3840.7	3822.7	3806.5
20°	3820.9	3828.1	3835.3	3837.0	3835.3	3828.1	3820.9	3804.7	3774.2	3770.6	3758.0
22.5°	3743.7	3749.1	3765.2	3759.8	3765.2	3749.1	3743.7	3729.2	3718.5	3698.7	3686.1
25°	3632.2	3637.6	3639.5	3641.3	3639.5	3637.6	3632.2	3619.7	3608.9	3594.5	3587.4
27.5°	3440.1	3440.1	3443.6	3445.5	3443.6	3440.1	3440.1	3431.0	3423.9	3416.7	3409.5
30°	3149.0	3149.0	3149.0	3158.1	3149.0	3149.0	3149.0	3147.3	3147.3	3149.0	3149.0
32.5°	2813.1	2809.5	2806.0	2809.5	2806.0	2809.5	2813.1	2814.9	2813.1	2818.5	2827.5
35°	2432.3	2430.5	2435.9	2428.7	2435.9	2430.5	2432.3	2432.3	2439.5	2446.7	2448.5
37.5°	2067.6	2064.0	2071.2	2064.0	2071.2	2064.0	2067.6	2065.8	2064.0	2067.6	2062.3
40°	1721.0	1724.5	1724.5	1738.9	1724.5	1724.5	1721.0	1717.3	1704.8	1697.6	1690.4
42.5°	1388.6	1399.4	1395.8	1406.6	1395.8	1399.4	1388.6	1381.4	1367.0	1354.4	1343.7
45°	1074.2	1081.4	1081.4	1085.0	1081.4	1081.4	1074.2	1067.0	1054.5	1043.7	1036.5
47.5°	824.5	824.5	824.5	826.4	824.5	824.5	824.5	811.9	808.4	801.2	792.2
50°	626.9	628.7	630.6	632.3	630.6	628.7	626.9	623.3	621.5	617.9	616.1
52.5°	481.4	483.2	479.6	483.2	479.6	483.2	481.4	483.2	477.8	477.8	476.0
55°	364.7	362.9	364.7	366.4	364.7	362.9	364.7	364.7	362.9	362.9	362.9
57.5°	267.7	264.0	264.0	264.0	264.0	264.0	267.7	265.9	271.3	267.7	269.4
60°	199.4	201.2	201.2	203.0	201.2	201.2	199.4	203.0	203.0	204.8	204.8
62.5°	147.3	152.7	149.1	152.7	149.1	152.7	147.3	149.1	149.1	150.9	152.7
65°	95.2	95.2	95.2	97.0	95.2	95.2	95.2	97.0	98.8	97.0	102.4
67.5°	64.7	66.5	70.1	68.2	70.1	66.5	64.7	66.5	66.5	71.9	70.1
70°	52.1	46.7	46.7	52.1	46.7	46.7	52.1	48.5	46.7	50.3	48.5
72.5°	30.5	26.9	30.5	30.5	30.5	26.9	30.5	26.9	28.8	28.8	32.3
75°	16.2	14.3	12.6	18.0	12.6	14.3	16.2	16.2	16.2	16.2	18.0
77.5°	10.8	8.9	12.6	12.6	12.6	8.9	10.8	8.9	10.8	8.9	10.8
80°	5.4	7.2	5.4	8.9	5.4	7.2	5.4	8.9	5.4	7.2	7.2
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: P248569

CATALOG NUMBER: LD8B60D010 ER8B60840 8LBSWOH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0
2.5°	3716.7	3711.3	3713.1	3702.3	3702.3	3698.7	3700.6	3691.5	3688.0	3684.4	3689.8
5°	3770.6	3761.6	3754.4	3738.3	3729.2	3718.5	3713.1	3698.7	3686.1	3675.3	3673.6
7.5°	3813.7	3793.9	3781.4	3759.8	3743.7	3731.1	3713.1	3693.3	3677.2	3662.8	3652.0
10°	3831.6	3811.9	3792.2	3765.2	3747.2	3723.8	3705.9	3680.7	3659.2	3639.5	3626.8
12.5°	3833.4	3808.3	3790.3	3759.8	3736.4	3711.3	3691.5	3662.8	3637.6	3617.9	3598.1
15°	3817.3	3793.9	3772.3	3740.0	3716.7	3693.3	3670.0	3639.5	3616.1	3592.7	3578.4
17.5°	3781.4	3759.8	3734.6	3704.1	3682.6	3661.0	3635.9	3610.7	3583.7	3558.6	3540.6
20°	3734.6	3711.3	3689.8	3659.2	3641.3	3617.9	3594.5	3567.6	3546.0	3520.9	3501.1
22.5°	3664.6	3643.0	3623.3	3605.3	3576.6	3558.6	3542.5	3511.9	3490.3	3467.0	3445.5
25°	3564.0	3542.5	3526.3	3504.7	3492.1	3472.4	3456.2	3429.3	3409.5	3387.9	3370.0
27.5°	3398.7	3386.2	3377.1	3364.6	3353.8	3344.8	3335.9	3314.3	3299.9	3280.2	3262.2
30°	3150.8	3149.0	3143.6	3138.2	3145.4	3145.4	3145.4	3141.9	3129.3	3114.9	3102.3
32.5°	2832.9	2836.5	2843.7	2849.1	2863.4	2879.6	2893.9	2901.1	2901.1	2892.2	2886.8
35°	2453.8	2459.2	2470.0	2484.4	2502.4	2522.1	2554.4	2561.7	2567.0	2567.0	2559.8
37.5°	2060.4	2058.6	2069.4	2082.0	2092.8	2107.1	2130.5	2135.9	2144.9	2141.3	2134.1
40°	1677.8	1668.8	1665.2	1668.8	1681.4	1676.0	1681.4	1677.8	1677.8	1665.2	1665.2
42.5°	1323.9	1313.2	1305.9	1300.6	1300.6	1288.0	1279.0	1270.1	1264.7	1255.7	1253.9
45°	1020.4	1007.7	998.8	995.2	989.8	973.6	962.8	952.1	939.5	935.9	937.7
47.5°	792.2	779.6	776.0	767.1	758.0	749.1	741.9	729.3	727.5	720.3	727.5
50°	610.7	607.2	601.8	598.2	592.8	585.6	578.4	571.3	567.6	567.6	569.4
52.5°	474.3	476.0	470.6	465.2	461.7	461.7	452.7	450.9	450.9	443.7	450.9
55°	362.9	361.0	362.9	359.3	359.3	353.9	353.9	348.5	348.5	343.1	346.7
57.5°	265.9	269.4	265.9	267.7	271.3	265.9	264.0	258.6	262.3	258.6	260.5
60°	206.6	206.6	206.6	204.8	204.8	203.0	203.0	201.2	201.2	197.6	201.2
62.5°	152.7	154.5	154.5	154.5	156.3	154.5	152.7	154.5	152.7	152.7	154.5
65°	100.6	102.4	102.4	100.6	104.2	100.6	102.4	104.2	106.0	104.2	106.0
67.5°	68.2	68.2	70.1	71.9	70.1	71.9	73.6	71.9	73.6	77.3	73.6
70°	50.3	52.1	52.1	50.3	48.5	50.3	48.5	53.9	53.9	53.9	57.5
72.5°	32.3	32.3	30.5	30.5	30.5	30.5	30.5	35.9	32.3	30.5	34.2
75°	18.0	19.7	19.7	14.3	16.2	19.7	14.3	16.2	21.6	18.0	21.6
77.5°	10.8	10.8	10.8	10.8	10.8	10.8	14.3	12.6	12.6	12.6	14.3
80°	8.9	7.2	7.2	5.4	7.2	7.2	7.2	10.8	8.9	8.9	10.8
82.5°	3.6	3.6	1.8	0.0	3.6	3.6	3.6	3.6	3.6	3.6	7.2
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: P248569

CATALOG NUMBER: LD8B60D010 ER8B60840 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0
2.5°	3675.3	3675.3	3673.6	3670.0	3662.8	3662.8	3661.0	3655.6	3652.0	3650.2	3650.2
5°	3657.4	3650.2	3643.0	3623.3	3623.3	3619.7	3608.9	3601.7	3598.1	3589.1	3585.6
7.5°	3641.3	3619.7	3607.1	3594.5	3578.4	3571.2	3558.6	3553.2	3540.6	3531.7	3526.3
10°	3601.7	3587.4	3571.2	3551.4	3538.8	3524.5	3510.1	3499.4	3483.2	3474.1	3467.0
12.5°	3574.8	3553.2	3538.8	3517.3	3495.7	3483.2	3463.4	3450.9	3434.7	3416.7	3405.9
15°	3549.6	3526.3	3506.5	3483.2	3459.8	3445.5	3422.1	3407.8	3384.4	3366.4	3353.8
17.5°	3511.9	3492.1	3470.6	3441.8	3420.3	3402.4	3377.1	3359.2	3337.7	3314.3	3301.7
20°	3472.4	3449.0	3427.5	3398.7	3377.1	3355.6	3330.5	3310.7	3285.5	3264.0	3249.7
22.5°	3420.3	3393.3	3375.4	3346.6	3321.5	3298.2	3274.8	3251.4	3228.1	3210.1	3193.9
25°	3344.8	3316.1	3296.3	3273.0	3249.7	3231.7	3202.9	3188.6	3165.2	3149.0	3132.8
27.5°	3237.0	3215.5	3197.5	3174.2	3154.4	3140.1	3118.5	3104.2	3084.3	3070.0	3057.4
30°	3079.0	3061.0	3044.9	3021.5	3007.1	2994.6	2974.8	2962.2	2947.8	2931.7	2928.1
32.5°	2867.0	2852.6	2836.5	2820.3	2809.5	2802.3	2786.1	2779.0	2764.6	2755.6	2746.7
35°	2547.2	2534.7	2525.7	2518.5	2514.9	2516.7	2513.1	2520.3	2523.9	2522.1	2523.9
37.5°	2128.7	2121.5	2125.1	2130.5	2148.5	2171.8	2193.4	2225.7	2247.3	2268.9	2288.6
40°	1661.7	1667.1	1681.4	1713.7	1760.4	1812.6	1861.1	1922.1	1983.2	2026.3	2065.8
42.5°	1253.9	1270.1	1305.9	1352.7	1422.8	1499.9	1575.4	1665.2	1738.9	1810.7	1861.1
45°	943.1	964.6	1011.4	1076.0	1153.2	1243.1	1338.3	1438.9	1526.9	1600.6	1656.3
47.5°	734.7	754.5	801.2	869.5	964.6	1058.1	1156.9	1261.0	1352.7	1424.5	1473.0
50°	580.2	605.3	646.7	718.5	813.8	912.6	1015.0	1117.3	1203.6	1264.7	1307.8
52.5°	456.3	479.6	519.1	594.6	691.6	790.4	885.6	986.2	1061.6	1120.9	1149.7
55°	353.9	375.5	416.7	479.6	571.3	668.3	763.4	849.7	919.7	962.8	989.8
57.5°	269.4	285.6	314.4	377.2	459.9	549.7	630.6	716.8	770.7	801.2	819.1
60°	204.8	217.4	247.9	296.4	371.8	449.1	517.4	582.1	625.2	650.3	668.3
62.5°	154.5	168.9	190.4	231.7	289.2	352.1	409.6	458.1	494.0	510.2	522.8
65°	106.0	116.8	132.9	165.3	213.8	258.6	303.6	339.5	362.9	380.9	388.0
67.5°	79.0	86.2	95.2	120.4	154.5	190.4	220.9	246.1	271.3	278.5	291.0
70°	59.3	64.7	73.6	91.6	111.4	136.5	161.7	176.1	194.0	206.6	210.2
72.5°	37.7	39.5	48.5	59.3	75.4	91.6	107.8	120.4	131.2	138.3	141.9
75°	21.6	32.3	32.3	43.1	53.9	61.1	71.9	80.8	86.2	91.6	91.6
77.5°	14.3	19.7	21.6	26.9	32.3	41.3	50.3	55.7	61.1	62.8	62.8
80°	12.6	14.3	14.3	19.7	23.4	30.5	35.9	37.7	41.3	43.1	46.7
82.5°	5.4	7.2	8.9	14.3	16.2	16.2	21.6	23.4	26.9	28.8	28.8
85°	1.8	3.6	3.6	5.4	8.9	10.8	12.6	14.3	16.2	16.2	18.0
87.5°	1.8	1.8	0.0	1.8	3.6	3.6	7.2	7.2	7.2	10.8	10.8
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: P248569

CATALOG NUMBER: LD8B60D010 ER8B60840 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0
2.5°	3646.7	3648.4	3641.3	3639.5	3635.9	3637.6	3641.3
5°	3580.2	3582.0	3574.8	3567.6	3567.6	3565.8	3567.6
7.5°	3517.3	3519.1	3508.3	3504.7	3497.5	3499.4	3499.4
10°	3454.4	3454.4	3438.3	3436.4	3431.0	3429.3	3429.3
12.5°	3393.3	3387.9	3375.4	3368.2	3371.8	3361.0	3361.0
15°	3339.4	3330.5	3314.3	3308.9	3299.9	3296.3	3296.3
17.5°	3283.8	3276.6	3262.2	3251.4	3240.6	3238.9	3240.6
20°	3229.9	3222.7	3204.7	3197.5	3188.6	3188.6	3185.0
22.5°	3175.9	3168.8	3152.7	3147.3	3134.7	3134.7	3136.5
25°	3120.3	3114.9	3096.9	3093.4	3091.6	3084.3	3088.0
27.5°	3044.9	3041.2	3026.9	3021.5	3014.3	3012.5	3016.1
30°	2906.5	2901.1	2890.4	2885.0	2872.4	2874.2	2877.7
32.5°	2734.1	2726.9	2712.5	2707.1	2696.4	2692.7	2694.5
35°	2518.5	2513.1	2500.6	2500.6	2489.8	2486.2	2489.8
37.5°	2299.4	2304.7	2299.4	2304.7	2299.4	2297.5	2299.4
40°	2092.8	2112.5	2116.1	2135.9	2128.7	2139.5	2137.7
42.5°	1895.2	1927.5	1940.1	1956.2	1952.7	1959.9	1965.3
45°	1695.7	1722.7	1735.3	1746.1	1747.9	1751.5	1753.3
47.5°	1507.1	1528.7	1530.5	1543.1	1541.3	1541.3	1546.7
50°	1331.1	1345.5	1349.0	1358.1	1350.9	1347.3	1349.0
52.5°	1167.7	1182.0	1178.4	1182.0	1173.1	1169.4	1171.2
55°	1000.6	1007.7	1007.7	1007.7	997.0	997.0	997.0
57.5°	829.9	831.8	828.1	829.9	828.1	817.3	815.6
60°	673.7	673.7	671.8	673.7	668.3	662.9	662.9
62.5°	526.3	529.9	537.1	529.9	526.3	529.9	524.5
65°	393.4	400.6	398.8	402.4	400.6	400.6	397.0
67.5°	296.4	298.2	300.0	301.8	301.8	301.8	301.8
70°	217.4	222.8	220.9	220.9	220.9	220.9	231.7
72.5°	145.5	152.7	150.9	154.5	154.5	158.1	154.5
75°	98.8	106.0	102.4	107.8	106.0	102.4	111.4
77.5°	66.5	70.1	71.9	73.6	71.9	70.1	71.9
80°	46.7	50.3	48.5	50.3	50.3	50.3	52.1
82.5°	28.8	34.2	32.3	34.2	32.3	34.2	34.2
85°	19.7	21.6	18.0	21.6	19.7	19.7	23.4
87.5°	12.6	10.8	10.8	12.6	10.8	12.6	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)