

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: P248983

Luminaire Tested: **LD8B60D010 ER8B60830 8LBSW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248983  
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 ER8B60830 8LBSW0MW  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5935.0 lumens  
Efficiency: N/A  
Efficacy: 99.7 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

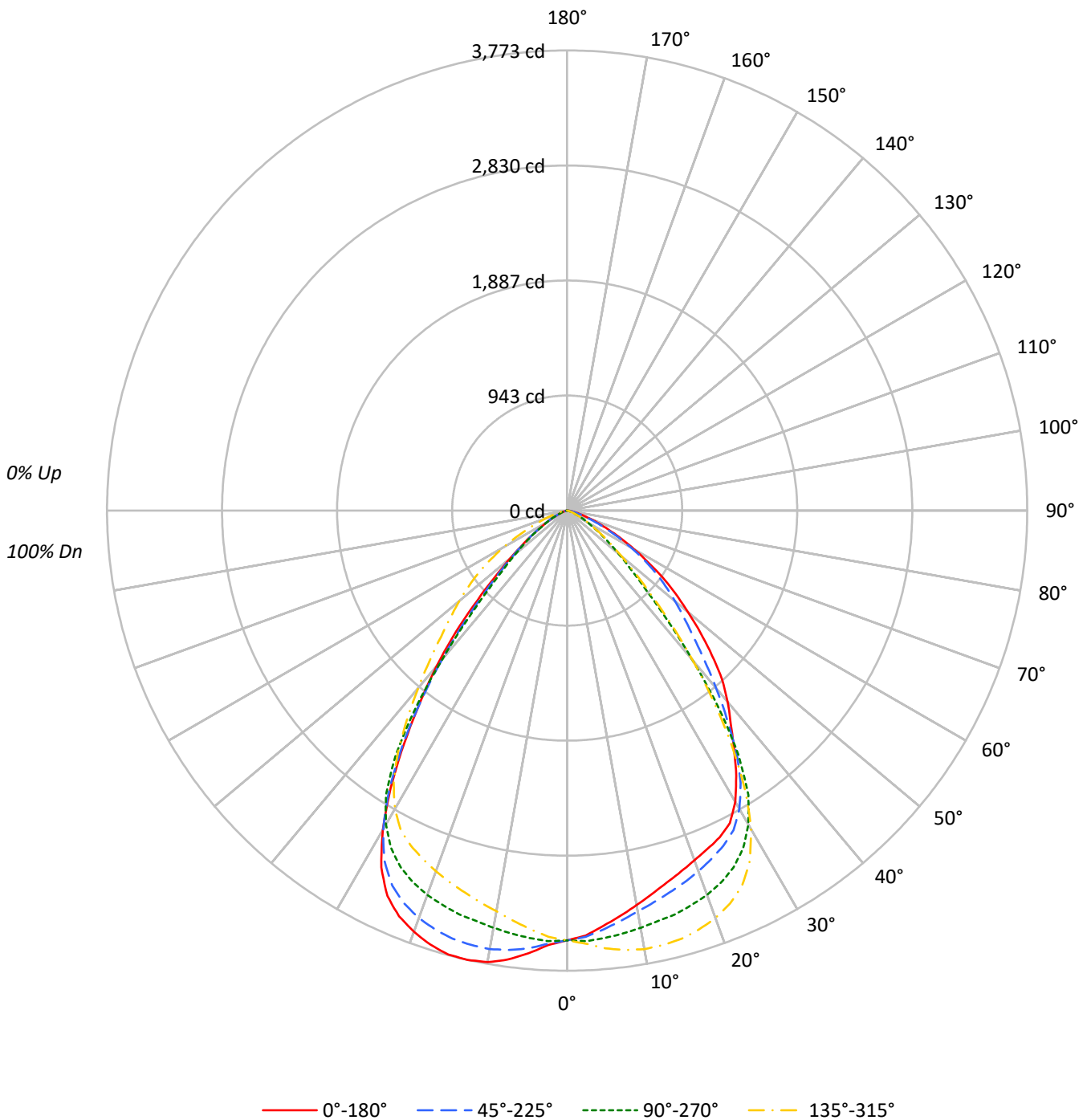
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P248983

CATALOG NUMBER: LD8B60D010 ER8B60830 8LBSW0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P248983

CATALOG NUMBER: LD8B60D010 ER8B60830 8LBSW0MW

**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°	108649	108649	108649	108649
5°	105764	108906	112794	108906
10°	102838	108762	117705	108762
15°	100784	109407	120280	109407
20°	100097	110033	120590	110033
25°	100623	109813	118652	109813
30°	98136	105791	107692	105791
35°	89763	92288	87560	92288
40°	82412	64197	67039	64197
45°	73224	39165	45314	39165
50°	61981	26160	29052	26160
55°	51337	17849	18870	17849
60°	39150	11884	11989	11884
65°	27741	7406	6778	7406
70°	20006	4959	4499	4959
75°	12701	2466	2049	2466
80°	8861	1829	1527	1829
85°	7925	0	601	0



TEST NUMBER: P248983

CATALOG NUMBER: LD8B60D010 ER8B60830 8LBSW0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	335.4	5.7
10°-20°	971.1	16.4
20°-30°	1470.5	24.8
30°-40°	1473.8	24.8
40°-50°	925.5	15.6
50°-60°	493.2	8.3
60°-70°	202.8	3.4
70°-80°	53.6	0.9
80°-90°	9.1	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°	2777.0	46.8
0°-40°	4250.9	71.6
0°-60°	5669.6	95.5
0°-90°	5935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5935.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3523	3523	3523	3523	3523	
5°	3417	3518	3644	3518	3417	322
15°	3157	3427	3768	3427	3157	893
25°	2957	3228	3487	3228	2957	1356
35°	2384	2452	2326	2452	2384	1494
45°	1679	898	1039	898	1679	1291
55°	955	332	351	332	955	851
65°	380	102	93	102	380	394
75°	107	21	17	21	107	121
85°	22	0	2	0	22	25
90°	0	0	0	0	0	



TEST NUMBER: P248983

CATALOG NUMBER: LD8B60D010 ER8B60830 8LBSW0MW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4
2.5°	3487.3	3483.8	3482.1	3485.6	3487.3	3494.2	3492.5	3495.9	3495.9	3497.6	3501.0
5°	3416.8	3415.0	3416.8	3416.8	3423.6	3430.5	3428.8	3434.0	3437.4	3446.0	3449.4
7.5°	3351.4	3351.4	3349.6	3356.5	3360.0	3370.3	3368.6	3377.2	3382.4	3390.9	3403.0
10°	3284.3	3284.3	3286.0	3291.2	3292.9	3308.4	3308.4	3320.4	3327.3	3335.9	3351.4
12.5°	3218.9	3218.9	3229.3	3225.8	3232.7	3244.7	3249.9	3261.9	3272.2	3289.5	3305.0
15°	3157.0	3157.0	3160.4	3169.0	3174.2	3189.7	3198.2	3212.1	3224.1	3241.3	3263.7
17.5°	3103.6	3101.9	3103.6	3114.0	3124.3	3138.1	3144.9	3162.1	3174.2	3196.5	3217.2
20°	3050.3	3053.8	3053.8	3062.4	3069.2	3086.4	3093.3	3112.3	3126.0	3146.6	3170.8
22.5°	3003.9	3002.2	3002.2	3014.2	3019.4	3034.8	3041.7	3058.9	3074.4	3091.6	3114.0
25°	2957.4	2953.9	2960.9	2962.6	2966.0	2983.2	2988.4	3000.4	3015.9	3031.4	3053.8
27.5°	2888.6	2885.2	2886.9	2893.7	2898.9	2912.7	2916.1	2928.2	2940.2	2953.9	2972.9
30°	2756.1	2752.7	2751.0	2763.0	2768.2	2778.5	2783.6	2804.3	2807.7	2823.2	2837.0
32.5°	2580.6	2578.9	2582.4	2592.6	2597.8	2611.6	2618.5	2630.5	2639.1	2647.7	2661.5
35°	2384.5	2381.1	2384.5	2394.9	2394.9	2406.9	2412.1	2417.2	2415.5	2417.2	2413.8
37.5°	2202.2	2200.4	2202.2	2207.3	2202.2	2207.3	2202.2	2191.8	2172.9	2152.3	2131.6
40°	2047.3	2049.0	2038.7	2045.6	2026.6	2023.2	2004.3	1978.5	1940.7	1899.4	1840.9
42.5°	1882.2	1877.0	1870.1	1873.5	1858.1	1846.0	1815.0	1782.4	1734.2	1665.4	1594.8
45°	1679.1	1677.4	1674.0	1672.3	1661.9	1649.9	1624.0	1586.2	1532.9	1462.4	1378.0
47.5°	1481.3	1476.1	1476.1	1477.8	1465.8	1464.1	1443.4	1410.8	1364.3	1295.5	1207.7
50°	1292.0	1290.3	1293.8	1300.6	1292.0	1288.6	1274.9	1252.5	1211.2	1152.7	1070.1
52.5°	1121.7	1120.0	1123.5	1132.0	1128.6	1132.0	1118.3	1101.1	1073.5	1016.7	944.5
55°	954.9	954.9	954.9	965.1	965.1	965.1	958.3	948.0	922.1	880.9	813.8
57.5°	781.1	782.8	793.1	794.8	793.1	796.6	794.8	784.5	767.3	738.1	686.5
60°	634.8	634.8	640.0	645.2	643.4	645.2	645.2	640.0	622.8	598.7	557.4
62.5°	502.4	507.5	504.1	507.5	514.4	507.5	504.1	500.7	488.6	473.1	438.7
65°	380.2	383.7	383.7	385.4	381.9	383.7	376.8	371.6	364.8	347.6	325.2
67.5°	289.1	289.1	289.1	289.1	287.3	285.6	283.9	278.7	266.7	259.8	235.7
70°	221.9	211.6	211.6	211.6	211.6	213.4	208.2	201.3	197.9	185.8	168.6
72.5°	147.9	151.4	147.9	147.9	144.5	146.2	139.4	135.9	132.5	125.6	115.3
75°	106.6	98.1	101.5	103.2	98.1	101.5	94.6	87.7	87.7	82.6	77.4
77.5°	68.8	67.1	68.8	70.5	68.8	67.1	63.7	60.2	60.2	58.5	53.3
80°	49.9	48.2	48.2	48.2	46.5	48.2	44.8	44.8	41.3	39.6	36.1
82.5°	32.7	32.7	30.9	32.7	30.9	32.7	27.5	27.5	27.5	25.8	22.4
85°	22.4	18.9	18.9	20.7	17.2	20.7	18.9	17.2	15.5	15.5	13.7
87.5°	10.3	12.0	10.3	12.0	10.3	10.3	12.0	10.3	10.3	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



TEST NUMBER: P248983

CATALOG NUMBER: LD8B60D010 ER8B60830 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4
2.5°	3506.2	3507.9	3507.9	3514.9	3518.3	3520.0	3520.0	3533.8	3528.6	3532.1	3535.5
5°	3456.4	3466.6	3470.1	3470.1	3489.0	3495.9	3502.7	3518.3	3520.0	3530.3	3542.3
7.5°	3408.1	3420.2	3427.1	3442.6	3454.6	3466.6	3487.3	3497.6	3507.9	3521.7	3537.2
10°	3361.7	3375.5	3389.2	3401.3	3420.2	3435.7	3449.4	3473.5	3485.6	3504.5	3525.1
12.5°	3317.0	3335.9	3347.9	3368.6	3389.2	3403.0	3423.6	3446.0	3464.9	3483.8	3507.9
15°	3277.4	3299.8	3313.5	3335.9	3358.3	3377.2	3399.6	3427.1	3440.9	3463.2	3485.6
17.5°	3234.4	3258.5	3275.7	3296.3	3323.9	3344.5	3363.5	3390.9	3408.1	3432.2	3458.1
20°	3189.7	3213.8	3234.4	3255.0	3282.6	3303.2	3325.6	3353.1	3372.0	3396.1	3416.8
22.5°	3136.4	3158.7	3181.0	3205.1	3232.7	3249.9	3275.7	3299.8	3320.4	3342.8	3363.5
25°	3067.5	3095.1	3112.3	3134.6	3157.0	3175.9	3203.4	3227.5	3244.7	3265.4	3284.3
27.5°	2986.7	3007.3	3021.1	3040.0	3062.4	3079.6	3100.2	3124.3	3141.5	3160.4	3174.2
30°	2849.0	2868.0	2880.0	2893.7	2916.1	2931.6	2948.8	2971.1	2983.2	2997.0	3009.0
32.5°	2668.3	2683.9	2690.7	2701.1	2716.6	2732.0	2745.8	2764.7	2769.9	2778.5	2778.5
35°	2406.9	2410.3	2408.6	2412.1	2418.9	2427.5	2439.5	2451.6	2458.4	2458.4	2453.4
37.5°	2100.6	2080.0	2057.6	2040.4	2035.3	2031.8	2038.7	2043.8	2050.8	2054.2	2045.6
40°	1782.4	1735.9	1686.0	1641.3	1610.3	1596.6	1591.4	1594.8	1594.8	1606.8	1606.8
42.5°	1508.8	1436.5	1362.6	1295.5	1250.7	1216.4	1200.9	1200.9	1202.6	1211.2	1216.4
45°	1281.7	1190.5	1104.5	1030.6	968.6	923.8	903.2	898.1	896.4	899.8	911.8
47.5°	1108.0	1013.3	923.8	832.7	767.3	722.6	703.7	696.7	689.9	696.7	698.5
50°	972.1	874.0	779.4	688.2	619.3	579.8	555.7	545.3	543.6	543.6	547.1
52.5°	848.1	757.0	662.4	569.5	497.2	459.4	437.0	431.8	425.0	431.8	431.8
55°	731.2	640.0	547.1	459.4	399.1	359.6	338.9	332.0	328.6	333.7	333.7
57.5°	603.9	526.4	440.5	361.3	301.1	273.6	258.0	249.5	247.7	251.2	247.7
60°	495.5	430.1	356.1	283.9	237.4	208.2	196.2	192.7	189.2	192.7	192.7
62.5°	392.2	337.2	277.0	221.9	182.3	161.7	147.9	147.9	146.2	146.2	147.9
65°	290.8	247.7	204.7	158.3	127.3	111.8	101.5	101.5	99.8	101.5	99.8
67.5°	211.6	182.3	147.9	115.3	91.2	82.6	75.7	70.5	74.0	70.5	68.8
70°	154.9	130.7	106.6	87.7	70.5	62.0	56.8	55.0	51.6	51.6	51.6
72.5°	103.2	87.7	72.2	56.8	46.5	37.8	36.1	32.7	29.2	30.9	34.4
75°	68.8	58.5	51.6	41.3	30.9	30.9	20.7	20.7	17.2	20.7	15.5
77.5°	48.2	39.6	30.9	25.8	20.7	18.9	13.7	13.7	12.0	12.0	12.0
80°	34.4	29.2	22.4	18.9	13.7	13.7	12.0	10.3	8.6	8.6	10.3
82.5°	20.7	15.5	15.5	13.7	8.6	6.9	5.2	6.9	3.5	3.5	3.5
85°	12.0	10.3	8.6	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



TEST NUMBER: P248983

CATALOG NUMBER: LD8B60D010 ER8B60830 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4
2.5°	3544.1	3542.3	3545.8	3545.8	3556.1	3554.4	3559.5	3559.5	3556.1	3557.8	3564.7
5°	3556.1	3561.3	3571.6	3580.2	3595.7	3602.6	3611.2	3619.8	3621.5	3626.7	3631.8
7.5°	3556.1	3573.3	3585.4	3600.8	3621.5	3633.5	3652.4	3668.0	3674.8	3683.4	3693.7
10°	3549.2	3566.4	3588.8	3606.0	3631.8	3650.7	3669.7	3693.7	3704.1	3717.8	3731.6
12.5°	3535.5	3554.4	3578.4	3600.8	3630.1	3647.3	3671.4	3693.7	3709.2	3728.1	3743.7
15°	3514.9	3537.2	3559.5	3581.9	3612.9	3633.5	3655.9	3681.7	3697.2	3717.8	3731.6
17.5°	3482.1	3506.2	3526.9	3547.5	3576.7	3600.8	3621.5	3645.6	3661.1	3678.3	3697.2
20°	3442.6	3464.9	3487.3	3504.5	3533.8	3554.4	3576.7	3599.1	3611.2	3614.6	3643.9
22.5°	3392.7	3408.1	3425.3	3452.9	3470.1	3489.0	3509.7	3530.3	3542.3	3561.3	3571.6
25°	3310.1	3325.6	3344.5	3356.5	3377.2	3392.7	3413.3	3435.7	3442.6	3456.4	3466.6
27.5°	3194.8	3203.4	3212.1	3222.3	3234.4	3243.0	3255.0	3265.4	3272.2	3279.1	3286.0
30°	3012.4	3012.4	3012.4	3005.6	3010.7	3015.9	3017.6	3015.9	3015.9	3014.2	3014.2
32.5°	2771.6	2757.9	2742.3	2728.6	2723.4	2716.6	2713.1	2707.9	2699.4	2694.2	2695.9
35°	2446.4	2415.5	2396.6	2379.4	2365.6	2355.3	2350.1	2344.9	2343.2	2336.4	2329.4
37.5°	2040.4	2018.1	2004.3	1994.0	1981.9	1971.6	1973.3	1975.1	1980.2	1976.8	1978.5
40°	1610.3	1605.1	1610.3	1598.3	1594.8	1598.3	1606.8	1618.9	1625.8	1632.7	1644.7
42.5°	1224.9	1233.5	1245.6	1245.6	1250.7	1257.7	1267.9	1286.9	1297.2	1309.2	1323.0
45°	922.1	932.5	948.0	953.1	956.6	965.1	977.2	992.7	999.5	1009.9	1021.9
47.5°	710.5	717.4	726.0	734.6	743.2	746.7	758.7	758.7	767.3	774.2	777.6
50°	554.0	560.8	567.7	572.9	576.4	581.5	584.9	590.1	591.8	595.3	597.0
52.5°	433.5	442.2	442.2	445.6	450.7	455.9	454.2	455.9	457.6	457.6	462.8
55°	338.9	338.9	344.1	344.1	347.6	345.8	347.6	347.6	347.6	347.6	349.3
57.5°	252.9	254.6	259.8	256.3	254.6	258.0	254.6	258.0	256.3	259.8	254.6
60°	194.4	194.4	196.2	196.2	197.9	197.9	197.9	196.2	196.2	194.4	194.4
62.5°	146.2	147.9	149.7	147.9	147.9	147.9	146.2	146.2	144.5	142.8	142.8
65°	98.1	96.4	99.8	96.4	98.1	98.1	96.4	98.1	92.9	94.6	92.9
67.5°	70.5	68.8	67.1	68.8	67.1	65.4	65.4	67.1	68.8	63.7	63.7
70°	46.5	48.2	46.5	48.2	49.9	49.9	48.2	46.5	48.2	44.8	46.5
72.5°	29.2	29.2	29.2	29.2	29.2	30.9	30.9	30.9	27.5	27.5	25.8
75°	13.7	18.9	15.5	13.7	18.9	18.9	17.2	17.2	15.5	15.5	15.5
77.5°	13.7	10.3	10.3	10.3	10.3	10.3	10.3	10.3	8.6	10.3	8.6
80°	6.9	6.9	6.9	5.2	6.9	6.9	8.6	6.9	6.9	5.2	8.6
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: P248983

CATALOG NUMBER: LD8B60D010 ER8B60830 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4
2.5°	3563.0	3561.3	3563.0	3564.7	3563.0	3561.3	3563.0	3564.7	3557.8	3556.1	3559.5
5°	3638.7	3638.7	3642.1	3643.9	3642.1	3638.7	3638.7	3631.8	3626.7	3621.5	3619.8
7.5°	3704.1	3707.5	3710.9	3712.6	3710.9	3707.5	3704.1	3693.7	3683.4	3674.8	3668.0
10°	3743.7	3748.8	3755.7	3759.1	3755.7	3748.8	3743.7	3731.6	3717.8	3704.1	3693.7
12.5°	3760.9	3766.0	3774.6	3772.9	3774.6	3766.0	3760.9	3743.7	3728.1	3709.2	3693.7
15°	3748.8	3755.7	3764.3	3767.7	3764.3	3755.7	3748.8	3731.6	3717.8	3697.2	3681.7
17.5°	3710.9	3721.3	3726.4	3731.6	3726.4	3721.3	3710.9	3697.2	3678.3	3661.1	3645.6
20°	3659.3	3666.3	3673.1	3674.8	3673.1	3666.3	3659.3	3643.9	3614.6	3611.2	3599.1
22.5°	3585.4	3590.6	3606.0	3600.8	3606.0	3590.6	3585.4	3571.6	3561.3	3542.3	3530.3
25°	3478.7	3483.8	3485.6	3487.3	3485.6	3483.8	3478.7	3466.6	3456.4	3442.6	3435.7
27.5°	3294.6	3294.6	3298.0	3299.8	3298.0	3294.6	3294.6	3286.0	3279.1	3272.2	3265.4
30°	3015.9	3015.9	3015.9	3024.5	3015.9	3015.9	3015.9	3014.2	3014.2	3015.9	3015.9
32.5°	2694.2	2690.7	2687.3	2690.7	2687.3	2690.7	2694.2	2695.9	2694.2	2699.4	2707.9
35°	2329.4	2327.7	2332.9	2326.0	2332.9	2327.7	2329.4	2329.4	2336.4	2343.2	2344.9
37.5°	1980.2	1976.8	1983.6	1976.8	1983.6	1976.8	1980.2	1978.5	1976.8	1980.2	1975.1
40°	1648.2	1651.6	1651.6	1665.4	1651.6	1651.6	1648.2	1644.7	1632.7	1625.8	1618.9
42.5°	1329.9	1340.2	1336.8	1347.1	1336.8	1340.2	1329.9	1323.0	1309.2	1297.2	1286.9
45°	1028.8	1035.7	1035.7	1039.1	1035.7	1035.7	1028.8	1021.9	1009.9	999.5	992.7
47.5°	789.6	789.6	789.6	791.4	789.6	789.6	789.6	777.6	774.2	767.3	758.7
50°	600.4	602.1	603.9	605.6	603.9	602.1	600.4	597.0	595.3	591.8	590.1
52.5°	461.1	462.8	459.4	462.8	459.4	462.8	461.1	462.8	457.6	457.6	455.9
55°	349.3	347.6	349.3	351.0	349.3	347.6	349.3	349.3	347.6	347.6	347.6
57.5°	256.3	252.9	252.9	252.9	252.9	252.9	256.3	254.6	259.8	256.3	258.0
60°	191.0	192.7	192.7	194.4	192.7	192.7	191.0	194.4	194.4	196.2	196.2
62.5°	141.1	146.2	142.8	146.2	142.8	146.2	141.1	142.8	142.8	144.5	146.2
65°	91.2	91.2	91.2	92.9	91.2	91.2	91.2	92.9	94.6	92.9	98.1
67.5°	62.0	63.7	67.1	65.4	67.1	63.7	62.0	63.7	63.7	68.8	67.1
70°	49.9	44.8	44.8	49.9	44.8	44.8	49.9	46.5	44.8	48.2	46.5
72.5°	29.2	25.8	29.2	29.2	29.2	25.8	29.2	25.8	27.5	27.5	30.9
75°	15.5	13.7	12.0	17.2	12.0	13.7	15.5	15.5	15.5	15.5	17.2
77.5°	10.3	8.6	12.0	12.0	12.0	8.6	10.3	8.6	10.3	8.6	10.3
80°	5.2	6.9	5.2	8.6	5.2	6.9	5.2	8.6	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: P248983

CATALOG NUMBER: LD8B60D010 ER8B60830 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4
2.5°	3559.5	3554.4	3556.1	3545.8	3545.8	3542.3	3544.1	3535.5	3532.1	3528.6	3533.8
5°	3611.2	3602.6	3595.7	3580.2	3571.6	3561.3	3556.1	3542.3	3530.3	3520.0	3518.3
7.5°	3652.4	3633.5	3621.5	3600.8	3585.4	3573.3	3556.1	3537.2	3521.7	3507.9	3497.6
10°	3669.7	3650.7	3631.8	3606.0	3588.8	3566.4	3549.2	3525.1	3504.5	3485.6	3473.5
12.5°	3671.4	3647.3	3630.1	3600.8	3578.4	3554.4	3535.5	3507.9	3483.8	3464.9	3446.0
15°	3655.9	3633.5	3612.9	3581.9	3559.5	3537.2	3514.9	3485.6	3463.2	3440.9	3427.1
17.5°	3621.5	3600.8	3576.7	3547.5	3526.9	3506.2	3482.1	3458.1	3432.2	3408.1	3390.9
20°	3576.7	3554.4	3533.8	3504.5	3487.3	3464.9	3442.6	3416.8	3396.1	3372.0	3353.1
22.5°	3509.7	3489.0	3470.1	3452.9	3425.3	3408.1	3392.7	3363.5	3342.8	3320.4	3299.8
25°	3413.3	3392.7	3377.2	3356.5	3344.5	3325.6	3310.1	3284.3	3265.4	3244.7	3227.5
27.5°	3255.0	3243.0	3234.4	3222.3	3212.1	3203.4	3194.8	3174.2	3160.4	3141.5	3124.3
30°	3017.6	3015.9	3010.7	3005.6	3012.4	3012.4	3012.4	3009.0	2997.0	2983.2	2971.1
32.5°	2713.1	2716.6	2723.4	2728.6	2742.3	2757.9	2771.6	2778.5	2778.5	2769.9	2764.7
35°	2350.1	2355.3	2365.6	2379.4	2396.6	2415.5	2446.4	2453.4	2458.4	2458.4	2451.6
37.5°	1973.3	1971.6	1981.9	1994.0	2004.3	2018.1	2040.4	2045.6	2054.2	2050.8	2043.8
40°	1606.8	1598.3	1594.8	1598.3	1610.3	1605.1	1610.3	1606.8	1606.8	1594.8	1594.8
42.5°	1267.9	1257.7	1250.7	1245.6	1245.6	1233.5	1224.9	1216.4	1211.2	1202.6	1200.9
45°	977.2	965.1	956.6	953.1	948.0	932.5	922.1	911.8	899.8	896.4	898.1
47.5°	758.7	746.7	743.2	734.6	726.0	717.4	710.5	698.5	696.7	689.9	696.7
50°	584.9	581.5	576.4	572.9	567.7	560.8	554.0	547.1	543.6	543.6	545.3
52.5°	454.2	455.9	450.7	445.6	442.2	442.2	433.5	431.8	431.8	425.0	431.8
55°	347.6	345.8	347.6	344.1	344.1	338.9	338.9	333.7	333.7	328.6	332.0
57.5°	254.6	258.0	254.6	256.3	259.8	254.6	252.9	247.7	251.2	247.7	249.5
60°	197.9	197.9	197.9	196.2	196.2	194.4	194.4	192.7	192.7	189.2	192.7
62.5°	146.2	147.9	147.9	147.9	149.7	147.9	146.2	147.9	146.2	146.2	147.9
65°	96.4	98.1	98.1	96.4	99.8	96.4	98.1	99.8	101.5	99.8	101.5
67.5°	65.4	65.4	67.1	68.8	67.1	68.8	70.5	68.8	70.5	74.0	70.5
70°	48.2	49.9	49.9	48.2	46.5	48.2	46.5	51.6	51.6	51.6	55.0
72.5°	30.9	30.9	29.2	29.2	29.2	29.2	29.2	34.4	30.9	29.2	32.7
75°	17.2	18.9	18.9	13.7	15.5	18.9	13.7	15.5	20.7	17.2	20.7
77.5°	10.3	10.3	10.3	10.3	10.3	10.3	13.7	12.0	12.0	12.0	13.7
80°	8.6	6.9	6.9	5.2	6.9	6.9	6.9	10.3	8.6	8.6	10.3
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: P248983

CATALOG NUMBER: LD8B60D010 ER8B60830 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4
2.5°	3520.0	3520.0	3518.3	3514.9	3507.9	3507.9	3506.2	3501.0	3497.6	3495.9	3495.9
5°	3502.7	3495.9	3489.0	3470.1	3470.1	3466.6	3456.4	3449.4	3446.0	3437.4	3434.0
7.5°	3487.3	3466.6	3454.6	3442.6	3427.1	3420.2	3408.1	3403.0	3390.9	3382.4	3377.2
10°	3449.4	3435.7	3420.2	3401.3	3389.2	3375.5	3361.7	3351.4	3335.9	3327.3	3320.4
12.5°	3423.6	3403.0	3389.2	3368.6	3347.9	3335.9	3317.0	3305.0	3289.5	3272.2	3261.9
15°	3399.6	3377.2	3358.3	3335.9	3313.5	3299.8	3277.4	3263.7	3241.3	3224.1	3212.1
17.5°	3363.5	3344.5	3323.9	3296.3	3275.7	3258.5	3234.4	3217.2	3196.5	3174.2	3162.1
20°	3325.6	3303.2	3282.6	3255.0	3234.4	3213.8	3189.7	3170.8	3146.6	3126.0	3112.3
22.5°	3275.7	3249.9	3232.7	3205.1	3181.0	3158.7	3136.4	3114.0	3091.6	3074.4	3058.9
25°	3203.4	3175.9	3157.0	3134.6	3112.3	3095.1	3067.5	3053.8	3031.4	3015.9	3000.4
27.5°	3100.2	3079.6	3062.4	3040.0	3021.1	3007.3	2986.7	2972.9	2953.9	2940.2	2928.2
30°	2948.8	2931.6	2916.1	2893.7	2880.0	2868.0	2849.0	2837.0	2823.2	2807.7	2804.3
32.5°	2745.8	2732.0	2716.6	2701.1	2690.7	2683.9	2668.3	2661.5	2647.7	2639.1	2630.5
35°	2439.5	2427.5	2418.9	2412.1	2408.6	2410.3	2406.9	2413.8	2417.2	2415.5	2417.2
37.5°	2038.7	2031.8	2035.3	2040.4	2057.6	2080.0	2100.6	2131.6	2152.3	2172.9	2191.8
40°	1591.4	1596.6	1610.3	1641.3	1686.0	1735.9	1782.4	1840.9	1899.4	1940.7	1978.5
42.5°	1200.9	1216.4	1250.7	1295.5	1362.6	1436.5	1508.8	1594.8	1665.4	1734.2	1782.4
45°	903.2	923.8	968.6	1030.6	1104.5	1190.5	1281.7	1378.0	1462.4	1532.9	1586.2
47.5°	703.7	722.6	767.3	832.7	923.8	1013.3	1108.0	1207.7	1295.5	1364.3	1410.8
50°	555.7	579.8	619.3	688.2	779.4	874.0	972.1	1070.1	1152.7	1211.2	1252.5
52.5°	437.0	459.4	497.2	569.5	662.4	757.0	848.1	944.5	1016.7	1073.5	1101.1
55°	338.9	359.6	399.1	459.4	547.1	640.0	731.2	813.8	880.9	922.1	948.0
57.5°	258.0	273.6	301.1	361.3	440.5	526.4	603.9	686.5	738.1	767.3	784.5
60°	196.2	208.2	237.4	283.9	356.1	430.1	495.5	557.4	598.7	622.8	640.0
62.5°	147.9	161.7	182.3	221.9	277.0	337.2	392.2	438.7	473.1	488.6	500.7
65°	101.5	111.8	127.3	158.3	204.7	247.7	290.8	325.2	347.6	364.8	371.6
67.5°	75.7	82.6	91.2	115.3	147.9	182.3	211.6	235.7	259.8	266.7	278.7
70°	56.8	62.0	70.5	87.7	106.6	130.7	154.9	168.6	185.8	197.9	201.3
72.5°	36.1	37.8	46.5	56.8	72.2	87.7	103.2	115.3	125.6	132.5	135.9
75°	20.7	30.9	30.9	41.3	51.6	58.5	68.8	77.4	82.6	87.7	87.7
77.5°	13.7	18.9	20.7	25.8	30.9	39.6	48.2	53.3	58.5	60.2	60.2
80°	12.0	13.7	13.7	18.9	22.4	29.2	34.4	36.1	39.6	41.3	44.8
82.5°	5.2	6.9	8.6	13.7	15.5	15.5	20.7	22.4	25.8	27.5	27.5
85°	1.7	3.5	3.5	5.2	8.6	10.3	12.0	13.7	15.5	15.5	17.2
87.5°	1.7	1.7	0.0	1.7	3.5	3.5	6.9	6.9	6.9	10.3	10.3
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: P248983

CATALOG NUMBER: LD8B60D010 ER8B60830 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4	3523.4
2.5°	3492.5	3494.2	3487.3	3485.6	3482.1	3483.8	3487.3
5°	3428.8	3430.5	3423.6	3416.8	3416.8	3415.0	3416.8
7.5°	3368.6	3370.3	3360.0	3356.5	3349.6	3351.4	3351.4
10°	3308.4	3308.4	3292.9	3291.2	3286.0	3284.3	3284.3
12.5°	3249.9	3244.7	3232.7	3225.8	3229.3	3218.9	3218.9
15°	3198.2	3189.7	3174.2	3169.0	3160.4	3157.0	3157.0
17.5°	3144.9	3138.1	3124.3	3114.0	3103.6	3101.9	3103.6
20°	3093.3	3086.4	3069.2	3062.4	3053.8	3053.8	3050.3
22.5°	3041.7	3034.8	3019.4	3014.2	3002.2	3002.2	3003.9
25°	2988.4	2983.2	2966.0	2962.6	2960.9	2953.9	2957.4
27.5°	2916.1	2912.7	2898.9	2893.7	2886.9	2885.2	2888.6
30°	2783.6	2778.5	2768.2	2763.0	2751.0	2752.7	2756.1
32.5°	2618.5	2611.6	2597.8	2592.6	2582.4	2578.9	2580.6
35°	2412.1	2406.9	2394.9	2394.9	2384.5	2381.1	2384.5
37.5°	2202.2	2207.3	2202.2	2207.3	2202.2	2200.4	2202.2
40°	2004.3	2023.2	2026.6	2045.6	2038.7	2049.0	2047.3
42.5°	1815.0	1846.0	1858.1	1873.5	1870.1	1877.0	1882.2
45°	1624.0	1649.9	1661.9	1672.3	1674.0	1677.4	1679.1
47.5°	1443.4	1464.1	1465.8	1477.8	1476.1	1476.1	1481.3
50°	1274.9	1288.6	1292.0	1300.6	1293.8	1290.3	1292.0
52.5°	1118.3	1132.0	1128.6	1132.0	1123.5	1120.0	1121.7
55°	958.3	965.1	965.1	965.1	954.9	954.9	954.9
57.5°	794.8	796.6	793.1	794.8	793.1	782.8	781.1
60°	645.2	645.2	643.4	645.2	640.0	634.8	634.8
62.5°	504.1	507.5	514.4	507.5	504.1	507.5	502.4
65°	376.8	383.7	381.9	385.4	383.7	383.7	380.2
67.5°	283.9	285.6	287.3	289.1	289.1	289.1	289.1
70°	208.2	213.4	211.6	211.6	211.6	211.6	221.9
72.5°	139.4	146.2	144.5	147.9	147.9	151.4	147.9
75°	94.6	101.5	98.1	103.2	101.5	98.1	106.6
77.5°	63.7	67.1	68.8	70.5	68.8	67.1	68.8
80°	44.8	48.2	46.5	48.2	48.2	48.2	49.9
82.5°	27.5	32.7	30.9	32.7	30.9	32.7	32.7
85°	18.9	20.7	17.2	20.7	18.9	18.9	22.4
87.5°	12.0	10.3	10.3	12.0	10.3	12.0	10.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)