

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: P249010

Luminaire Tested: **LD8B60D010 ER8B60850 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249010
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 ER8B60850 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6251.0 lumens
Efficiency: N/A
Efficacy: 105.1 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

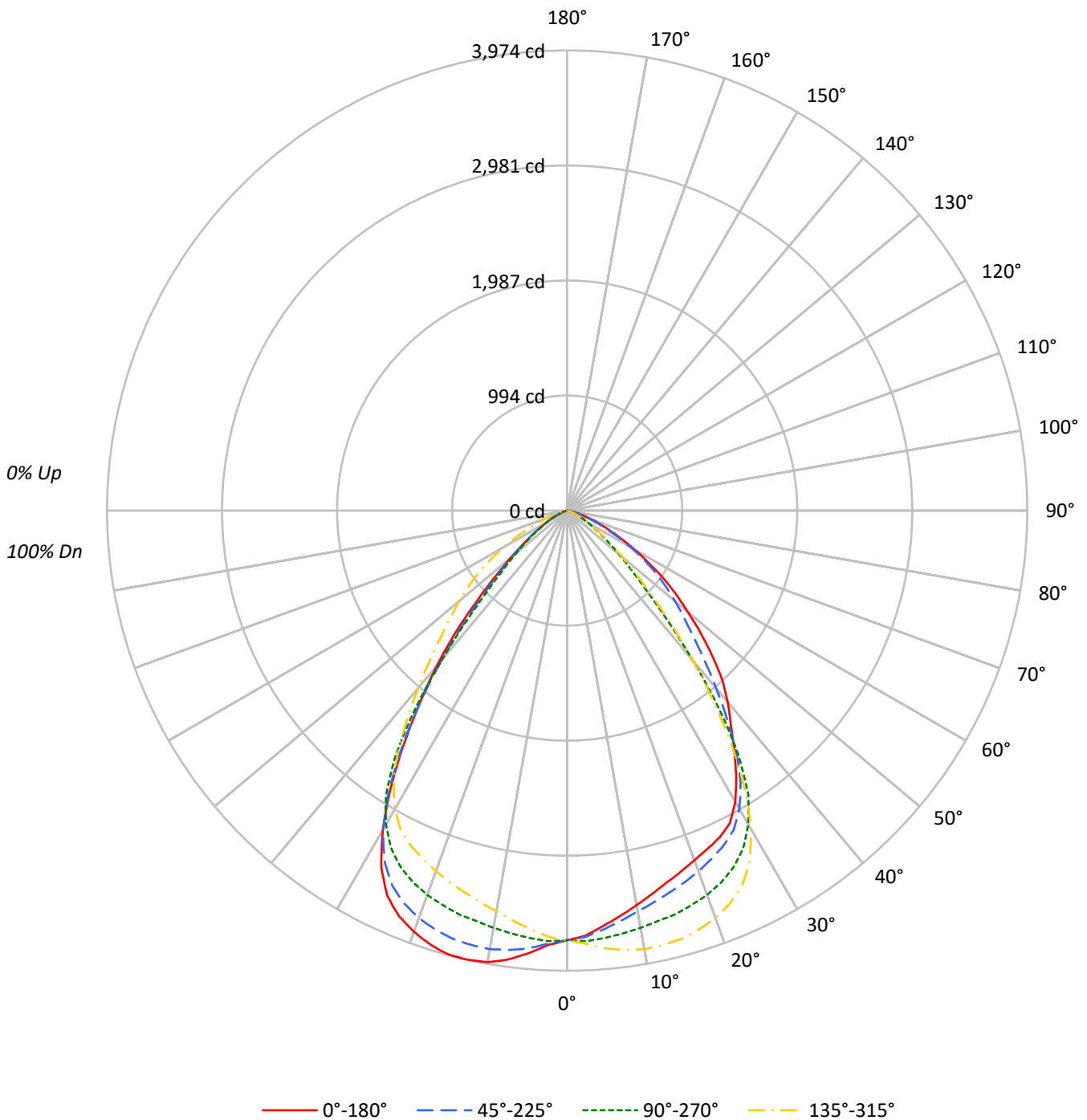
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	114434	114434	114434	114434
5°	111395	114704	118799	114704
10°	108311	114552	123971	114552
15°	106148	115233	126684	115233
20°	105426	115891	127012	115891
25°	105982	115658	124971	115658
30°	103359	111424	113429	111424
35°	94543	97201	92224	97201
40°	86800	67615	70609	67615
45°	77123	41250	47730	41250
50°	65281	27556	30597	27556
55°	54068	18800	19870	18800
60°	41234	12513	12624	12513
65°	29215	7800	7143	7800
70°	21070	5229	4742	5229
75°	13380	2597	2156	2597
80°	9341	1936	1598	1936
85°	8350	0	637	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.2	5.7
10°-20°	1022.9	16.4
20°-30°	1548.8	24.8
30°-40°	1552.3	24.8
40°-50°	974.8	15.6
50°-60°	519.5	8.3
60°-70°	213.6	3.4
70°-80°	56.4	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°	2924.9	46.8
0°-40°	4477.2	71.6
0°-60°	5971.4	95.5
0°-90°	6251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6251.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3711	3711	3711	3711	3711	
5°	3599	3706	3838	3706	3599	339
15°	3325	3610	3968	3610	3325	940
25°	3115	3399	3673	3399	3115	1429
35°	2512	2582	2450	2582	2512	1573
45°	1768	946	1094	946	1768	1360
55°	1006	350	370	350	1006	897
65°	400	107	98	107	400	415
75°	112	22	18	22	112	127
85°	24	0	2	0	24	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°	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0
2.5°	3673.0	3669.3	3667.5	3671.2	3673.0	3680.2	3678.4	3682.0	3682.0	3683.9	3687.5
5°	3598.7	3596.8	3598.7	3598.7	3605.9	3613.2	3611.4	3616.8	3620.4	3629.5	3633.1
7.5°	3529.9	3529.9	3528.0	3535.2	3538.9	3549.8	3547.9	3557.0	3562.4	3571.5	3584.2
10°	3459.1	3459.1	3460.9	3466.4	3468.2	3484.5	3484.5	3497.2	3504.4	3513.5	3529.9
12.5°	3390.3	3390.3	3401.2	3397.5	3404.8	3417.5	3422.9	3435.6	3446.5	3464.6	3480.9
15°	3325.0	3325.0	3328.7	3337.7	3343.2	3359.5	3368.5	3383.1	3395.8	3413.9	3437.4
17.5°	3268.9	3267.1	3268.9	3279.8	3290.7	3305.1	3312.4	3330.5	3343.2	3366.7	3388.5
20°	3212.7	3216.4	3216.4	3225.4	3232.6	3250.8	3258.0	3278.0	3292.5	3314.2	3339.6
22.5°	3163.8	3162.0	3162.0	3174.7	3180.1	3196.4	3203.6	3221.7	3238.1	3256.2	3279.8
25°	3114.9	3111.2	3118.5	3120.3	3123.9	3142.0	3147.5	3160.1	3176.5	3192.8	3216.4
27.5°	3042.4	3038.8	3040.6	3047.8	3053.3	3067.7	3071.4	3084.1	3096.7	3111.2	3131.2
30°	2902.8	2899.2	2897.5	2910.1	2915.6	2926.4	2931.8	2953.6	2957.2	2973.5	2988.0
32.5°	2718.0	2716.2	2719.9	2730.7	2736.1	2750.7	2757.9	2770.6	2779.6	2788.7	2803.2
35°	2511.5	2507.8	2511.5	2522.4	2522.4	2535.0	2540.5	2545.9	2544.1	2545.9	2542.3
37.5°	2319.4	2317.6	2319.4	2324.8	2319.4	2324.8	2319.4	2308.5	2288.6	2266.8	2245.1
40°	2156.3	2158.1	2147.3	2154.5	2134.5	2131.0	2111.0	2083.8	2044.0	2000.5	1938.9
42.5°	1982.4	1976.9	1969.7	1973.3	1957.0	1944.3	1911.7	1877.3	1826.5	1754.1	1679.7
45°	1768.5	1766.8	1763.1	1761.3	1750.4	1737.7	1710.5	1670.7	1614.5	1540.2	1451.4
47.5°	1560.2	1554.7	1554.7	1556.5	1543.8	1542.0	1520.3	1485.9	1436.9	1364.4	1272.0
50°	1360.8	1359.0	1362.7	1369.9	1360.8	1357.2	1342.7	1319.2	1275.7	1214.1	1127.0
52.5°	1181.4	1179.6	1183.3	1192.3	1188.7	1192.3	1177.8	1159.7	1130.7	1070.9	994.8
55°	1005.7	1005.7	1005.7	1016.5	1016.5	1016.5	1009.3	998.5	971.2	927.8	857.1
57.5°	822.7	824.5	835.3	837.1	835.3	839.0	837.1	826.2	808.2	777.4	723.0
60°	668.6	668.6	674.1	679.5	677.7	679.5	679.5	674.1	656.0	630.6	587.1
62.5°	529.1	534.5	530.9	534.5	541.8	534.5	530.9	527.3	514.6	498.3	462.1
65°	400.4	404.1	404.1	405.9	402.2	404.1	396.9	391.4	384.2	366.1	342.5
67.5°	304.5	304.5	304.5	304.5	302.6	300.8	299.0	293.6	280.9	273.7	248.2
70°	233.7	222.9	222.9	222.9	222.9	224.7	219.3	212.0	208.4	195.7	177.6
72.5°	155.8	159.5	155.8	155.8	152.2	154.0	146.8	143.1	139.5	132.3	121.4
75°	112.3	103.3	106.9	108.7	103.3	106.9	99.6	92.4	92.4	87.0	81.5
77.5°	72.5	70.7	72.5	74.3	72.5	70.7	67.1	63.4	63.4	61.6	56.2
80°	52.6	50.7	50.7	50.7	48.9	50.7	47.1	47.1	43.5	41.7	38.0
82.5°	34.5	34.5	32.6	34.5	32.6	34.5	29.0	29.0	29.0	27.1	23.6
85°	23.6	19.9	19.9	21.8	18.1	21.8	19.9	18.1	16.3	16.3	14.5
87.5°	10.9	12.7	10.9	12.7	10.9	10.9	12.7	10.9	10.9	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°	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0
2.5°	3692.9	3694.7	3694.7	3702.0	3705.6	3707.4	3707.4	3721.9	3716.5	3720.1	3723.7
5°	3640.4	3651.2	3654.9	3654.9	3674.8	3682.0	3689.2	3705.6	3707.4	3718.3	3730.9
7.5°	3589.6	3602.3	3609.6	3625.8	3638.5	3651.2	3673.0	3683.9	3694.7	3709.2	3725.5
10°	3540.7	3555.2	3569.7	3582.4	3602.3	3618.6	3633.1	3658.4	3671.2	3691.1	3712.8
12.5°	3493.6	3513.5	3526.2	3547.9	3569.7	3584.2	3605.9	3629.5	3649.4	3669.3	3694.7
15°	3451.9	3475.5	3490.0	3513.5	3537.1	3557.0	3580.6	3609.6	3624.1	3647.6	3671.2
17.5°	3406.6	3432.0	3450.1	3471.8	3500.8	3522.5	3542.5	3571.5	3589.6	3615.0	3642.2
20°	3359.5	3384.9	3406.6	3428.3	3457.4	3479.1	3502.6	3531.6	3551.6	3576.9	3598.7
22.5°	3303.3	3326.9	3350.4	3375.8	3404.8	3422.9	3450.1	3475.5	3497.2	3520.8	3542.5
25°	3230.8	3259.9	3278.0	3301.5	3325.0	3345.0	3374.0	3399.3	3417.5	3439.2	3459.1
27.5°	3145.7	3167.4	3181.9	3201.8	3225.4	3243.5	3265.2	3290.7	3308.8	3328.7	3343.2
30°	3000.7	3020.7	3033.3	3047.8	3071.4	3087.7	3105.8	3129.3	3142.0	3156.6	3169.2
32.5°	2810.4	2826.7	2834.0	2844.9	2861.2	2877.5	2892.0	2911.9	2917.4	2926.4	2926.4
35°	2535.0	2538.6	2536.8	2540.5	2547.7	2556.8	2569.4	2582.1	2589.3	2589.3	2584.0
37.5°	2212.5	2190.8	2167.2	2149.1	2143.6	2140.0	2147.3	2152.7	2160.0	2163.5	2154.5
40°	1877.3	1828.4	1775.8	1728.6	1696.0	1681.6	1676.1	1679.7	1679.7	1692.4	1692.4
42.5°	1589.2	1513.0	1435.2	1364.4	1317.3	1281.1	1264.8	1264.8	1266.6	1275.7	1281.1
45°	1350.0	1253.9	1163.3	1085.4	1020.2	973.0	951.3	945.9	944.1	947.7	960.3
47.5°	1166.9	1067.3	973.0	877.0	808.2	761.1	741.1	733.8	726.6	733.8	735.7
50°	1023.8	920.5	820.9	724.8	652.3	610.6	585.3	574.4	572.6	572.6	576.2
52.5°	893.3	797.3	697.7	599.8	523.7	483.8	460.3	454.8	447.6	454.8	454.8
55°	770.1	674.1	576.2	483.8	420.4	378.7	357.0	349.7	346.1	351.5	351.5
57.5°	636.1	554.5	463.9	380.5	317.1	288.1	271.8	262.8	260.9	264.6	260.9
60°	521.9	453.0	375.1	299.0	250.1	219.3	206.6	202.9	199.3	202.9	202.9
62.5°	413.1	355.2	291.7	233.7	192.1	170.4	155.8	155.8	154.0	154.0	155.8
65°	306.2	260.9	215.6	166.7	134.1	117.8	106.9	106.9	105.1	106.9	105.1
67.5°	222.9	192.1	155.8	121.4	96.1	87.0	79.7	74.3	77.9	74.3	72.5
70°	163.1	137.7	112.3	92.4	74.3	65.3	59.8	58.0	54.4	54.4	54.4
72.5°	108.7	92.4	76.1	59.8	48.9	39.8	38.0	34.5	30.8	32.6	36.2
75°	72.5	61.6	54.4	43.5	32.6	32.6	21.8	21.8	18.1	21.8	16.3
77.5°	50.7	41.7	32.6	27.1	21.8	19.9	14.5	14.5	12.7	12.7	12.7
80°	36.2	30.8	23.6	19.9	14.5	14.5	12.7	10.9	9.0	9.0	10.9
82.5°	21.8	16.3	16.3	14.5	9.0	7.2	5.4	7.2	3.7	3.7	3.7
85°	12.7	10.9	9.0	5.4	3.7	3.7	1.8	0.0	1.8	1.8	0.0
87.5°	7.2	3.7	3.7	1.8	0.0	1.8	1.8	0.0	0.0	0.0	3.7
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°	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0
2.5°	3732.8	3730.9	3734.6	3734.6	3745.5	3743.6	3749.1	3749.1	3745.5	3747.3	3754.5
5°	3745.5	3750.9	3761.7	3770.8	3787.1	3794.4	3803.4	3812.5	3814.3	3819.8	3825.2
7.5°	3745.5	3763.6	3776.3	3792.5	3814.3	3827.0	3846.9	3863.2	3870.5	3879.5	3890.4
10°	3738.2	3756.3	3779.9	3798.0	3825.2	3845.1	3865.0	3890.4	3901.3	3915.8	3930.3
12.5°	3723.7	3743.6	3769.0	3792.5	3823.3	3841.5	3866.8	3890.4	3906.7	3926.6	3943.0
15°	3702.0	3725.5	3749.1	3772.6	3805.2	3827.0	3850.6	3877.7	3894.1	3915.8	3930.3
17.5°	3667.5	3692.9	3714.7	3736.4	3767.2	3792.5	3814.3	3839.7	3856.0	3874.1	3894.1
20°	3625.8	3649.4	3673.0	3691.1	3721.9	3743.6	3767.2	3790.8	3803.4	3807.1	3837.9
22.5°	3573.3	3589.6	3607.7	3636.7	3654.9	3674.8	3696.6	3718.3	3730.9	3750.9	3761.7
25°	3486.3	3502.6	3522.5	3535.2	3557.0	3573.3	3595.0	3618.6	3625.8	3640.4	3651.2
27.5°	3364.9	3374.0	3383.1	3393.9	3406.6	3415.7	3428.3	3439.2	3446.5	3453.7	3460.9
30°	3172.8	3172.8	3172.8	3165.6	3171.0	3176.5	3178.3	3176.5	3176.5	3174.7	3174.7
32.5°	2919.2	2904.7	2888.4	2873.9	2868.4	2861.2	2857.6	2852.1	2843.1	2837.6	2839.4
35°	2576.7	2544.1	2524.2	2506.0	2491.6	2480.7	2475.2	2469.8	2468.0	2460.8	2453.5
37.5°	2149.1	2125.5	2111.0	2100.1	2087.5	2076.6	2078.4	2080.2	2085.6	2082.0	2083.8
40°	1696.0	1690.6	1696.0	1683.4	1679.7	1683.4	1692.4	1705.1	1712.4	1719.6	1732.3
42.5°	1290.2	1299.2	1311.9	1311.9	1317.3	1324.6	1335.4	1355.4	1366.2	1378.9	1393.5
45°	971.2	982.1	998.5	1003.8	1007.5	1016.5	1029.3	1045.5	1052.8	1063.6	1076.3
47.5°	748.4	755.6	764.6	773.7	782.8	786.4	799.1	799.1	808.2	815.4	819.0
50°	583.5	590.7	597.9	603.4	607.0	612.5	616.1	621.5	623.3	627.0	628.7
52.5°	456.6	465.7	465.7	469.3	474.7	480.2	478.4	480.2	482.0	482.0	487.4
55°	357.0	357.0	362.4	362.4	366.1	364.2	366.1	366.1	366.1	366.1	367.9
57.5°	266.3	268.2	273.7	270.0	268.2	271.8	268.2	271.8	270.0	273.7	268.2
60°	204.7	204.7	206.6	206.6	208.4	208.4	208.4	206.6	206.6	204.7	204.7
62.5°	154.0	155.8	157.7	155.8	155.8	155.8	154.0	154.0	152.2	150.4	150.4
65°	103.3	101.5	105.1	101.5	103.3	103.3	101.5	103.3	97.9	99.6	97.9
67.5°	74.3	72.5	70.7	72.5	70.7	68.8	68.8	70.7	72.5	67.1	67.1
70°	48.9	50.7	48.9	50.7	52.6	52.6	50.7	48.9	50.7	47.1	48.9
72.5°	30.8	30.8	30.8	30.8	30.8	32.6	32.6	32.6	29.0	29.0	27.1
75°	14.5	19.9	16.3	14.5	19.9	19.9	18.1	18.1	16.3	16.3	16.3
77.5°	14.5	10.9	10.9	10.9	10.9	10.9	10.9	10.9	9.0	10.9	9.0
80°	7.2	7.2	7.2	5.4	7.2	7.2	9.0	7.2	7.2	5.4	9.0
82.5°	3.7	3.7	3.7	0.0	1.8	3.7	3.7	1.8	3.7	3.7	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: P249010

CATALOG NUMBER: LD8B60D010 ER8B60850 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0
2.5°	3752.7	3750.9	3752.7	3754.5	3752.7	3750.9	3752.7	3754.5	3747.3	3745.5	3749.1
5°	3832.4	3832.4	3836.0	3837.9	3836.0	3832.4	3832.4	3825.2	3819.8	3814.3	3812.5
7.5°	3901.3	3904.9	3908.5	3910.3	3908.5	3904.9	3901.3	3890.4	3879.5	3870.5	3863.2
10°	3943.0	3948.4	3955.7	3959.2	3955.7	3948.4	3943.0	3930.3	3915.8	3901.3	3890.4
12.5°	3961.1	3966.5	3975.6	3973.8	3975.6	3966.5	3961.1	3943.0	3926.6	3906.7	3890.4
15°	3948.4	3955.7	3964.7	3968.3	3964.7	3955.7	3948.4	3930.3	3915.8	3894.1	3877.7
17.5°	3908.5	3919.4	3924.9	3930.3	3924.9	3919.4	3908.5	3894.1	3874.1	3856.0	3839.7
20°	3854.1	3861.5	3868.7	3870.5	3868.7	3861.5	3854.1	3837.9	3807.1	3803.4	3790.8
22.5°	3776.3	3781.7	3798.0	3792.5	3798.0	3781.7	3776.3	3761.7	3750.9	3730.9	3718.3
25°	3663.9	3669.3	3671.2	3673.0	3671.2	3669.3	3663.9	3651.2	3640.4	3625.8	3618.6
27.5°	3470.0	3470.0	3473.6	3475.5	3473.6	3470.0	3470.0	3460.9	3453.7	3446.5	3439.2
30°	3176.5	3176.5	3176.5	3185.6	3176.5	3176.5	3176.5	3174.7	3174.7	3176.5	3176.5
32.5°	2837.6	2834.0	2830.4	2834.0	2830.4	2834.0	2837.6	2839.4	2837.6	2843.1	2852.1
35°	2453.5	2451.7	2457.1	2449.9	2457.1	2451.7	2453.5	2453.5	2460.8	2468.0	2469.8
37.5°	2085.6	2082.0	2089.3	2082.0	2089.3	2082.0	2085.6	2083.8	2082.0	2085.6	2080.2
40°	1736.0	1739.5	1739.5	1754.1	1739.5	1739.5	1736.0	1732.3	1719.6	1712.4	1705.1
42.5°	1400.7	1411.6	1407.9	1418.8	1407.9	1411.6	1400.7	1393.5	1378.9	1366.2	1355.4
45°	1083.6	1090.9	1090.9	1094.5	1090.9	1090.9	1083.6	1076.3	1063.6	1052.8	1045.5
47.5°	831.7	831.7	831.7	833.6	831.7	831.7	831.7	819.0	815.4	808.2	799.1
50°	632.4	634.2	636.1	637.8	636.1	634.2	632.4	628.7	627.0	623.3	621.5
52.5°	485.6	487.4	483.8	487.4	483.8	487.4	485.6	487.4	482.0	482.0	480.2
55°	367.9	366.1	367.9	369.6	367.9	366.1	367.9	367.9	366.1	366.1	366.1
57.5°	270.0	266.3	266.3	266.3	266.3	266.3	270.0	268.2	273.7	270.0	271.8
60°	201.2	202.9	202.9	204.7	202.9	202.9	201.2	204.7	204.7	206.6	206.6
62.5°	148.6	154.0	150.4	154.0	150.4	154.0	148.6	150.4	150.4	152.2	154.0
65°	96.1	96.1	96.1	97.9	96.1	96.1	96.1	97.9	99.6	97.9	103.3
67.5°	65.3	67.1	70.7	68.8	70.7	67.1	65.3	67.1	67.1	72.5	70.7
70°	52.6	47.1	47.1	52.6	47.1	47.1	52.6	48.9	47.1	50.7	48.9
72.5°	30.8	27.1	30.8	30.8	30.8	27.1	30.8	27.1	29.0	29.0	32.6
75°	16.3	14.5	12.7	18.1	12.7	14.5	16.3	16.3	16.3	16.3	18.1
77.5°	10.9	9.0	12.7	12.7	12.7	9.0	10.9	9.0	10.9	9.0	10.9
80°	5.4	7.2	5.4	9.0	5.4	7.2	5.4	9.0	5.4	7.2	7.2
82.5°	1.8	3.7	3.7	3.7	3.7	3.7	1.8	1.8	3.7	3.7	1.8
85°	0.0	3.7	1.8	1.8	1.8	3.7	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: P249010

CATALOG NUMBER: LD8B60D010 ER8B60850 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0
2.5°	3749.1	3743.6	3745.5	3734.6	3734.6	3730.9	3732.8	3723.7	3720.1	3716.5	3721.9
5°	3803.4	3794.4	3787.1	3770.8	3761.7	3750.9	3745.5	3730.9	3718.3	3707.4	3705.6
7.5°	3846.9	3827.0	3814.3	3792.5	3776.3	3763.6	3745.5	3725.5	3709.2	3694.7	3683.9
10°	3865.0	3845.1	3825.2	3798.0	3779.9	3756.3	3738.2	3712.8	3691.1	3671.2	3658.4
12.5°	3866.8	3841.5	3823.3	3792.5	3769.0	3743.6	3723.7	3694.7	3669.3	3649.4	3629.5
15°	3850.6	3827.0	3805.2	3772.6	3749.1	3725.5	3702.0	3671.2	3647.6	3624.1	3609.6
17.5°	3814.3	3792.5	3767.2	3736.4	3714.7	3692.9	3667.5	3642.2	3615.0	3589.6	3571.5
20°	3767.2	3743.6	3721.9	3691.1	3673.0	3649.4	3625.8	3598.7	3576.9	3551.6	3531.6
22.5°	3696.6	3674.8	3654.9	3636.7	3607.7	3589.6	3573.3	3542.5	3520.8	3497.2	3475.5
25°	3595.0	3573.3	3557.0	3535.2	3522.5	3502.6	3486.3	3459.1	3439.2	3417.5	3399.3
27.5°	3428.3	3415.7	3406.6	3393.9	3383.1	3374.0	3364.9	3343.2	3328.7	3308.8	3290.7
30°	3178.3	3176.5	3171.0	3165.6	3172.8	3172.8	3172.8	3169.2	3156.6	3142.0	3129.3
32.5°	2857.6	2861.2	2868.4	2873.9	2888.4	2904.7	2919.2	2926.4	2926.4	2917.4	2911.9
35°	2475.2	2480.7	2491.6	2506.0	2524.2	2544.1	2576.7	2584.0	2589.3	2589.3	2582.1
37.5°	2078.4	2076.6	2087.5	2100.1	2111.0	2125.5	2149.1	2154.5	2163.5	2160.0	2152.7
40°	1692.4	1683.4	1679.7	1683.4	1696.0	1690.6	1696.0	1692.4	1692.4	1679.7	1679.7
42.5°	1335.4	1324.6	1317.3	1311.9	1311.9	1299.2	1290.2	1281.1	1275.7	1266.6	1264.8
45°	1029.3	1016.5	1007.5	1003.8	998.5	982.1	971.2	960.3	947.7	944.1	945.9
47.5°	799.1	786.4	782.8	773.7	764.6	755.6	748.4	735.7	733.8	726.6	733.8
50°	616.1	612.5	607.0	603.4	597.9	590.7	583.5	576.2	572.6	572.6	574.4
52.5°	478.4	480.2	474.7	469.3	465.7	465.7	456.6	454.8	454.8	447.6	454.8
55°	366.1	364.2	366.1	362.4	362.4	357.0	357.0	351.5	351.5	346.1	349.7
57.5°	268.2	271.8	268.2	270.0	273.7	268.2	266.3	260.9	264.6	260.9	262.8
60°	208.4	208.4	208.4	206.6	206.6	204.7	204.7	202.9	202.9	199.3	202.9
62.5°	154.0	155.8	155.8	155.8	157.7	155.8	154.0	155.8	154.0	154.0	155.8
65°	101.5	103.3	103.3	101.5	105.1	101.5	103.3	105.1	106.9	105.1	106.9
67.5°	68.8	68.8	70.7	72.5	70.7	72.5	74.3	72.5	74.3	77.9	74.3
70°	50.7	52.6	52.6	50.7	48.9	50.7	48.9	54.4	54.4	54.4	58.0
72.5°	32.6	32.6	30.8	30.8	30.8	30.8	30.8	36.2	32.6	30.8	34.5
75°	18.1	19.9	19.9	14.5	16.3	19.9	14.5	16.3	21.8	18.1	21.8
77.5°	10.9	10.9	10.9	10.9	10.9	10.9	14.5	12.7	12.7	12.7	14.5
80°	9.0	7.2	7.2	5.4	7.2	7.2	7.2	10.9	9.0	9.0	10.9
82.5°	3.7	3.7	1.8	0.0	3.7	3.7	3.7	3.7	3.7	3.7	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	3.7	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: P249010

CATALOG NUMBER: LD8B60D010 ER8B60850 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0
2.5°	3707.4	3707.4	3705.6	3702.0	3694.7	3694.7	3692.9	3687.5	3683.9	3682.0	3682.0
5°	3689.2	3682.0	3674.8	3654.9	3654.9	3651.2	3640.4	3633.1	3629.5	3620.4	3616.8
7.5°	3673.0	3651.2	3638.5	3625.8	3609.6	3602.3	3589.6	3584.2	3571.5	3562.4	3557.0
10°	3633.1	3618.6	3602.3	3582.4	3569.7	3555.2	3540.7	3529.9	3513.5	3504.4	3497.2
12.5°	3605.9	3584.2	3569.7	3547.9	3526.2	3513.5	3493.6	3480.9	3464.6	3446.5	3435.6
15°	3580.6	3557.0	3537.1	3513.5	3490.0	3475.5	3451.9	3437.4	3413.9	3395.8	3383.1
17.5°	3542.5	3522.5	3500.8	3471.8	3450.1	3432.0	3406.6	3388.5	3366.7	3343.2	3330.5
20°	3502.6	3479.1	3457.4	3428.3	3406.6	3384.9	3359.5	3339.6	3314.2	3292.5	3278.0
22.5°	3450.1	3422.9	3404.8	3375.8	3350.4	3326.9	3303.3	3279.8	3256.2	3238.1	3221.7
25°	3374.0	3345.0	3325.0	3301.5	3278.0	3259.9	3230.8	3216.4	3192.8	3176.5	3160.1
27.5°	3265.2	3243.5	3225.4	3201.8	3181.9	3167.4	3145.7	3131.2	3111.2	3096.7	3084.1
30°	3105.8	3087.7	3071.4	3047.8	3033.3	3020.7	3000.7	2988.0	2973.5	2957.2	2953.6
32.5°	2892.0	2877.5	2861.2	2844.9	2834.0	2826.7	2810.4	2803.2	2788.7	2779.6	2770.6
35°	2569.4	2556.8	2547.7	2540.5	2536.8	2538.6	2535.0	2542.3	2545.9	2544.1	2545.9
37.5°	2147.3	2140.0	2143.6	2149.1	2167.2	2190.8	2212.5	2245.1	2266.8	2288.6	2308.5
40°	1676.1	1681.6	1696.0	1728.6	1775.8	1828.4	1877.3	1938.9	2000.5	2044.0	2083.8
42.5°	1264.8	1281.1	1317.3	1364.4	1435.2	1513.0	1589.2	1679.7	1754.1	1826.5	1877.3
45°	951.3	973.0	1020.2	1085.4	1163.3	1253.9	1350.0	1451.4	1540.2	1614.5	1670.7
47.5°	741.1	761.1	808.2	877.0	973.0	1067.3	1166.9	1272.0	1364.4	1436.9	1485.9
50°	585.3	610.6	652.3	724.8	820.9	920.5	1023.8	1127.0	1214.1	1275.7	1319.2
52.5°	460.3	483.8	523.7	599.8	697.7	797.3	893.3	994.8	1070.9	1130.7	1159.7
55°	357.0	378.7	420.4	483.8	576.2	674.1	770.1	857.1	927.8	971.2	998.5
57.5°	271.8	288.1	317.1	380.5	463.9	554.5	636.1	723.0	777.4	808.2	826.2
60°	206.6	219.3	250.1	299.0	375.1	453.0	521.9	587.1	630.6	656.0	674.1
62.5°	155.8	170.4	192.1	233.7	291.7	355.2	413.1	462.1	498.3	514.6	527.3
65°	106.9	117.8	134.1	166.7	215.6	260.9	306.2	342.5	366.1	384.2	391.4
67.5°	79.7	87.0	96.1	121.4	155.8	192.1	222.9	248.2	273.7	280.9	293.6
70°	59.8	65.3	74.3	92.4	112.3	137.7	163.1	177.6	195.7	208.4	212.0
72.5°	38.0	39.8	48.9	59.8	76.1	92.4	108.7	121.4	132.3	139.5	143.1
75°	21.8	32.6	32.6	43.5	54.4	61.6	72.5	81.5	87.0	92.4	92.4
77.5°	14.5	19.9	21.8	27.1	32.6	41.7	50.7	56.2	61.6	63.4	63.4
80°	12.7	14.5	14.5	19.9	23.6	30.8	36.2	38.0	41.7	43.5	47.1
82.5°	5.4	7.2	9.0	14.5	16.3	16.3	21.8	23.6	27.1	29.0	29.0
85°	1.8	3.7	3.7	5.4	9.0	10.9	12.7	14.5	16.3	16.3	18.1
87.5°	1.8	1.8	0.0	1.8	3.7	3.7	7.2	7.2	7.2	10.9	10.9
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: P249010

CATALOG NUMBER: LD8B60D010 ER8B60850 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0	3711.0
2.5°	3678.4	3680.2	3673.0	3671.2	3667.5	3669.3	3673.0
5°	3611.4	3613.2	3605.9	3598.7	3598.7	3596.8	3598.7
7.5°	3547.9	3549.8	3538.9	3535.2	3528.0	3529.9	3529.9
10°	3484.5	3484.5	3468.2	3466.4	3460.9	3459.1	3459.1
12.5°	3422.9	3417.5	3404.8	3397.5	3401.2	3390.3	3390.3
15°	3368.5	3359.5	3343.2	3337.7	3328.7	3325.0	3325.0
17.5°	3312.4	3305.1	3290.7	3279.8	3268.9	3267.1	3268.9
20°	3258.0	3250.8	3232.6	3225.4	3216.4	3216.4	3212.7
22.5°	3203.6	3196.4	3180.1	3174.7	3162.0	3162.0	3163.8
25°	3147.5	3142.0	3123.9	3120.3	3118.5	3111.2	3114.9
27.5°	3071.4	3067.7	3053.3	3047.8	3040.6	3038.8	3042.4
30°	2931.8	2926.4	2915.6	2910.1	2897.5	2899.2	2902.8
32.5°	2757.9	2750.7	2736.1	2730.7	2719.9	2716.2	2718.0
35°	2540.5	2535.0	2522.4	2522.4	2511.5	2507.8	2511.5
37.5°	2319.4	2324.8	2319.4	2324.8	2319.4	2317.6	2319.4
40°	2111.0	2131.0	2134.5	2154.5	2147.3	2158.1	2156.3
42.5°	1911.7	1944.3	1957.0	1973.3	1969.7	1976.9	1982.4
45°	1710.5	1737.7	1750.4	1761.3	1763.1	1766.8	1768.5
47.5°	1520.3	1542.0	1543.8	1556.5	1554.7	1554.7	1560.2
50°	1342.7	1357.2	1360.8	1369.9	1362.7	1359.0	1360.8
52.5°	1177.8	1192.3	1188.7	1192.3	1183.3	1179.6	1181.4
55°	1009.3	1016.5	1016.5	1016.5	1005.7	1005.7	1005.7
57.5°	837.1	839.0	835.3	837.1	835.3	824.5	822.7
60°	679.5	679.5	677.7	679.5	674.1	668.6	668.6
62.5°	530.9	534.5	541.8	534.5	530.9	534.5	529.1
65°	396.9	404.1	402.2	405.9	404.1	404.1	400.4
67.5°	299.0	300.8	302.6	304.5	304.5	304.5	304.5
70°	219.3	224.7	222.9	222.9	222.9	222.9	233.7
72.5°	146.8	154.0	152.2	155.8	155.8	159.5	155.8
75°	99.6	106.9	103.3	108.7	106.9	103.3	112.3
77.5°	67.1	70.7	72.5	74.3	72.5	70.7	72.5
80°	47.1	50.7	48.9	50.7	50.7	50.7	52.6
82.5°	29.0	34.5	32.6	34.5	32.6	34.5	34.5
85°	19.9	21.8	18.1	21.8	19.9	19.9	23.6
87.5°	12.7	10.9	10.9	12.7	10.9	12.7	10.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)