

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: P248686

Luminaire Tested: **LD8B60D010 ER8B60850 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248686
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 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6263.0 lumens
Efficiency: N/A
Efficacy: 105.3 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

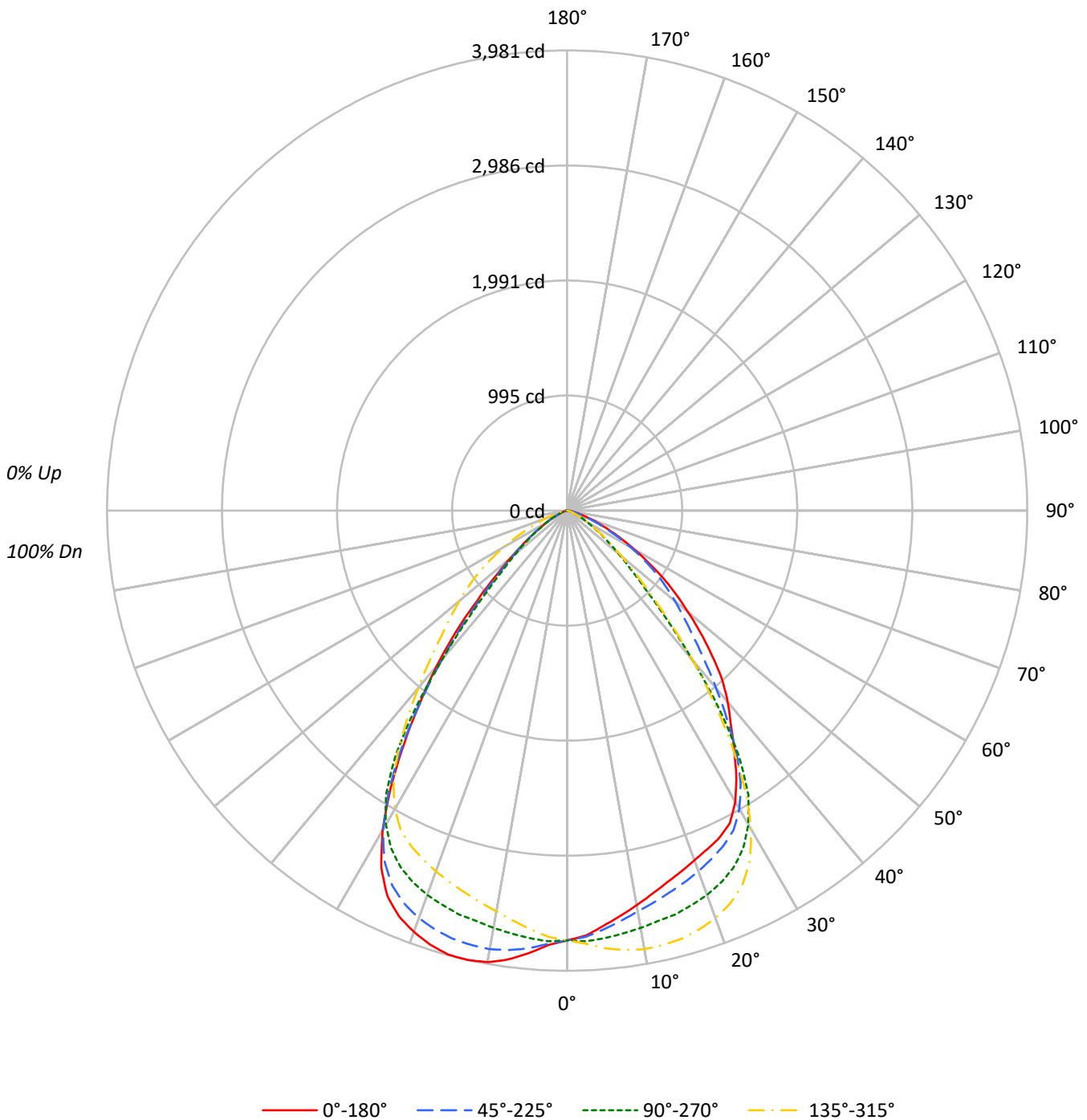
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	114653	114653	114653	114653
5°	111608	114923	119028	114923
10°	108521	114774	124208	114774
15°	106352	115454	126930	115454
20°	105629	116114	127255	116114
25°	106182	115883	125209	115883
30°	103559	111638	113646	111638
35°	94724	97389	92401	97389
40°	86965	67743	70742	67743
45°	77271	41328	47822	41328
50°	65406	27608	30659	27608
55°	54170	18838	19908	18838
60°	41314	12538	12649	12538
65°	29274	7815	7151	7815
70°	21115	5238	4751	5238
75°	13404	2597	2168	2597
80°	9358	1936	1598	1936
85°	8350	0	637	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.9	5.7
10°-20°	1024.8	16.4
20°-30°	1551.8	24.8
30°-40°	1555.3	24.8
40°-50°	976.6	15.6
50°-60°	520.4	8.3
60°-70°	214.0	3.4
70°-80°	56.5	0.9
80°-90°	9.6	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°	2930.5	46.8
0°-40°	4485.8	71.6
0°-60°	5982.9	95.5
0°-90°	6263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6263.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3718	3718	3718	3718	3718	
5°	3606	3713	3845	3713	3606	340
15°	3331	3616	3976	3616	3331	942
25°	3121	3406	3680	3406	3121	1431
35°	2516	2587	2455	2587	2516	1576
45°	1772	948	1097	948	1772	1363
55°	1008	350	370	350	1008	898
65°	401	107	98	107	401	416
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°	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1
2.5°	3680.0	3676.4	3674.6	3678.2	3680.0	3687.3	3685.5	3689.1	3689.1	3690.9	3694.5
5°	3605.6	3603.7	3605.6	3605.6	3612.9	3620.1	3618.3	3623.8	3627.4	3636.5	3640.1
7.5°	3536.6	3536.6	3534.8	3542.0	3545.7	3556.6	3554.7	3563.8	3569.3	3578.3	3591.0
10°	3465.8	3465.8	3467.6	3473.0	3474.9	3491.2	3491.2	3503.9	3511.1	3520.3	3536.6
12.5°	3396.8	3396.8	3407.7	3404.1	3411.3	3424.0	3429.5	3442.2	3453.1	3471.2	3487.6
15°	3331.4	3331.4	3335.1	3344.1	3349.6	3366.0	3375.0	3389.6	3402.3	3420.4	3444.0
17.5°	3275.2	3273.4	3275.2	3286.1	3297.0	3311.5	3318.7	3336.9	3349.6	3373.2	3395.0
20°	3218.9	3222.6	3222.6	3231.6	3238.8	3257.0	3264.2	3284.3	3298.8	3320.5	3346.0
22.5°	3169.9	3168.1	3168.1	3180.8	3186.2	3202.5	3209.8	3227.9	3244.3	3262.5	3286.1
25°	3120.8	3117.2	3124.5	3126.3	3129.9	3148.0	3153.5	3166.2	3182.6	3198.9	3222.6
27.5°	3048.2	3044.6	3046.4	3053.7	3059.1	3073.6	3077.3	3090.0	3102.7	3117.2	3137.2
30°	2908.4	2904.8	2903.0	2915.7	2921.2	2932.0	2937.5	2959.3	2962.9	2979.2	2993.7
32.5°	2723.2	2721.4	2725.1	2735.9	2741.4	2756.0	2763.2	2775.9	2784.9	2794.1	2808.6
35°	2516.3	2512.6	2516.3	2527.2	2527.2	2539.9	2545.4	2550.8	2549.0	2550.8	2547.2
37.5°	2323.9	2322.0	2323.9	2329.3	2323.9	2329.3	2323.9	2313.0	2293.0	2271.2	2249.4
40°	2160.4	2162.2	2151.4	2158.7	2138.6	2135.0	2115.1	2087.8	2047.9	2004.3	1942.6
42.5°	1986.2	1980.7	1973.5	1977.1	1960.8	1948.0	1915.3	1880.9	1830.0	1757.4	1682.9
45°	1771.9	1770.1	1766.5	1764.7	1753.8	1741.1	1713.8	1673.9	1617.6	1543.2	1454.2
47.5°	1563.2	1557.7	1557.7	1559.5	1546.8	1545.0	1523.2	1488.7	1439.7	1367.1	1274.5
50°	1363.4	1361.6	1365.3	1372.5	1363.4	1359.8	1345.3	1321.7	1278.1	1216.4	1129.2
52.5°	1183.7	1181.9	1185.6	1194.6	1190.9	1194.6	1180.1	1161.9	1132.9	1072.9	996.7
55°	1007.6	1007.6	1007.6	1018.5	1018.5	1018.5	1011.2	1000.4	973.1	929.5	858.8
57.5°	824.2	826.0	836.9	838.7	836.9	840.6	838.7	827.8	809.7	778.9	724.4
60°	669.9	669.9	675.4	680.8	679.0	680.8	680.8	675.4	657.2	631.8	588.3
62.5°	530.1	535.6	531.9	535.6	542.8	535.6	531.9	528.3	515.6	499.3	462.9
65°	401.2	404.9	404.9	406.7	403.0	404.9	397.6	392.2	384.9	366.8	343.1
67.5°	305.0	305.0	305.0	305.0	303.2	301.4	299.6	294.1	281.4	274.2	248.7
70°	234.2	223.3	223.3	223.3	223.3	225.2	219.7	212.5	208.8	196.1	177.9
72.5°	156.1	159.8	156.1	156.1	152.5	154.3	147.1	143.4	139.8	132.6	121.7
75°	112.5	103.5	107.1	109.0	103.5	107.1	99.8	92.6	92.6	87.1	81.7
77.5°	72.6	70.8	72.6	74.4	72.6	70.8	67.2	63.5	63.5	61.7	56.3
80°	52.7	50.8	50.8	50.8	49.0	50.8	47.2	47.2	43.6	41.8	38.1
82.5°	34.5	34.5	32.7	34.5	32.7	34.5	29.1	29.1	29.1	27.2	23.6
85°	23.6	20.0	20.0	21.8	18.2	21.8	20.0	18.2	16.4	16.4	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°	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1
2.5°	3700.0	3701.8	3701.8	3709.1	3712.7	3714.5	3714.5	3729.1	3723.6	3727.3	3730.8
5°	3647.4	3658.2	3661.9	3661.9	3681.8	3689.1	3696.3	3712.7	3714.5	3725.4	3738.1
7.5°	3596.5	3609.2	3616.5	3632.8	3645.5	3658.2	3680.0	3690.9	3701.8	3716.4	3732.6
10°	3547.5	3562.0	3576.5	3589.2	3609.2	3625.6	3640.1	3665.5	3678.2	3698.2	3719.9
12.5°	3500.3	3520.3	3533.0	3554.7	3576.5	3591.0	3612.9	3636.5	3656.4	3676.4	3701.8
15°	3458.5	3482.2	3496.7	3520.3	3543.9	3563.8	3587.4	3616.5	3631.0	3654.6	3678.2
17.5°	3413.1	3438.6	3456.7	3478.5	3507.6	3529.3	3549.3	3578.3	3596.5	3621.9	3649.2
20°	3366.0	3391.4	3413.1	3434.9	3464.0	3485.7	3509.4	3538.4	3558.4	3583.8	3605.6
22.5°	3309.7	3333.3	3356.8	3382.2	3411.3	3429.5	3456.7	3482.2	3503.9	3527.5	3549.3
25°	3237.0	3266.1	3284.3	3307.8	3331.4	3351.4	3380.5	3405.9	3424.0	3445.8	3465.8
27.5°	3151.7	3173.5	3188.0	3208.0	3231.6	3249.8	3271.5	3297.0	3315.1	3335.1	3349.6
30°	3006.4	3026.5	3039.2	3053.7	3077.3	3093.6	3111.8	3135.3	3148.0	3162.6	3175.3
32.5°	2815.8	2832.2	2839.4	2850.3	2866.7	2883.0	2897.6	2917.5	2923.0	2932.0	2932.0
35°	2539.9	2543.5	2541.7	2545.4	2552.6	2561.7	2574.4	2587.1	2594.3	2594.3	2588.9
37.5°	2216.7	2195.0	2171.4	2153.2	2147.7	2144.1	2151.4	2156.8	2164.1	2167.7	2158.7
40°	1880.9	1831.9	1779.2	1732.0	1699.3	1684.8	1679.4	1682.9	1682.9	1695.6	1695.6
42.5°	1592.2	1515.9	1437.9	1367.1	1319.8	1283.6	1267.2	1267.2	1269.0	1278.1	1283.6
45°	1352.6	1256.3	1165.5	1087.5	1022.1	974.9	953.2	947.7	945.9	949.5	962.2
47.5°	1169.2	1069.4	974.9	878.7	809.7	762.5	742.6	735.2	728.0	735.2	737.1
50°	1025.8	922.3	822.5	726.2	653.6	611.8	586.4	575.5	573.7	573.7	577.3
52.5°	895.0	798.8	699.0	601.0	524.7	484.8	461.1	455.7	448.4	455.7	455.7
55°	771.6	675.4	577.3	484.8	421.2	379.5	357.6	350.4	346.7	352.2	352.2
57.5°	637.3	555.5	464.8	381.3	317.7	288.7	272.3	263.3	261.4	265.1	261.4
60°	522.9	453.9	375.8	299.6	250.6	219.7	207.0	203.3	199.7	203.3	203.3
62.5°	413.9	355.9	292.3	234.2	192.4	170.7	156.1	156.1	154.3	154.3	156.1
65°	306.8	261.4	216.0	167.0	134.4	118.0	107.1	107.1	105.3	107.1	105.3
67.5°	223.3	192.4	156.1	121.7	96.2	87.1	79.9	74.4	78.1	74.4	72.6
70°	163.4	137.9	112.5	92.6	74.4	65.4	59.9	58.1	54.5	54.5	54.5
72.5°	109.0	92.6	76.2	59.9	49.0	39.9	38.1	34.5	30.9	32.7	36.3
75°	72.6	61.7	54.5	43.6	32.7	32.7	21.8	21.8	18.2	21.8	16.4
77.5°	50.8	41.8	32.7	27.2	21.8	20.0	14.5	14.5	12.7	12.7	12.7
80°	36.3	30.9	23.6	20.0	14.5	14.5	12.7	10.9	9.0	9.0	10.9
82.5°	21.8	16.4	16.4	14.5	9.0	7.2	5.5	7.2	3.7	3.7	3.7
85°	12.7	10.9	9.0	5.5	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°	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1
2.5°	3740.0	3738.1	3741.8	3741.8	3752.7	3750.8	3756.3	3756.3	3752.7	3754.5	3761.7
5°	3752.7	3758.1	3769.0	3778.1	3794.4	3801.7	3810.7	3819.8	3821.6	3827.1	3832.6
7.5°	3752.7	3770.8	3783.5	3799.8	3821.6	3834.3	3854.3	3870.7	3877.9	3887.0	3897.9
10°	3745.3	3763.5	3787.1	3805.3	3832.6	3852.5	3872.5	3897.9	3908.8	3923.3	3937.8
12.5°	3730.8	3750.8	3776.2	3799.8	3830.7	3848.8	3874.3	3897.9	3914.2	3934.2	3950.5
15°	3709.1	3732.6	3756.3	3779.9	3812.5	3834.3	3858.0	3885.2	3901.5	3923.3	3937.8
17.5°	3674.6	3700.0	3721.8	3743.6	3774.4	3799.8	3821.6	3847.0	3863.4	3881.6	3901.5
20°	3632.8	3656.4	3680.0	3698.2	3729.1	3750.8	3774.4	3798.0	3810.7	3814.4	3845.3
22.5°	3580.2	3596.5	3614.6	3643.7	3661.9	3681.8	3703.6	3725.4	3738.1	3758.1	3769.0
25°	3493.0	3509.4	3529.3	3542.0	3563.8	3580.2	3601.9	3625.6	3632.8	3647.4	3658.2
27.5°	3371.4	3380.5	3389.6	3400.4	3413.1	3422.2	3434.9	3445.8	3453.1	3460.3	3467.6
30°	3178.9	3178.9	3178.9	3171.7	3177.1	3182.6	3184.4	3182.6	3182.6	3180.8	3180.8
32.5°	2924.8	2910.3	2893.9	2879.4	2873.9	2866.7	2863.0	2857.6	2848.5	2843.1	2844.9
35°	2581.6	2549.0	2529.0	2510.8	2496.3	2485.4	2480.0	2474.5	2472.7	2465.5	2458.2
37.5°	2153.2	2129.6	2115.1	2104.2	2091.5	2080.6	2082.4	2084.2	2089.6	2086.0	2087.8
40°	1699.3	1693.8	1699.3	1686.6	1682.9	1686.6	1695.6	1708.4	1715.7	1722.9	1735.6
42.5°	1292.6	1301.7	1314.5	1314.5	1319.8	1327.2	1338.0	1358.0	1368.9	1381.6	1396.1
45°	973.1	984.0	1000.4	1005.8	1009.4	1018.5	1031.2	1047.5	1054.8	1065.7	1078.4
47.5°	749.8	757.1	766.1	775.2	784.3	787.9	800.6	800.6	809.7	817.0	820.6
50°	584.6	591.8	599.1	604.5	608.2	613.7	617.2	622.7	624.5	628.2	630.0
52.5°	457.5	466.6	466.6	470.2	475.6	481.1	479.3	481.1	482.9	482.9	488.3
55°	357.6	357.6	363.1	363.1	366.8	364.9	366.8	366.8	366.8	366.8	368.6
57.5°	266.9	268.7	274.2	270.5	268.7	272.3	268.7	272.3	270.5	274.2	268.7
60°	205.1	205.1	207.0	207.0	208.8	208.8	208.8	207.0	207.0	205.1	205.1
62.5°	154.3	156.1	158.0	156.1	156.1	156.1	154.3	154.3	152.5	150.7	150.7
65°	103.5	101.7	105.3	101.7	103.5	103.5	101.7	103.5	98.0	99.8	98.0
67.5°	74.4	72.6	70.8	72.6	70.8	69.0	69.0	70.8	72.6	67.2	67.2
70°	49.0	50.8	49.0	50.8	52.7	52.7	50.8	49.0	50.8	47.2	49.0
72.5°	30.9	30.9	30.9	30.9	30.9	32.7	32.7	32.7	29.1	29.1	27.2
75°	14.5	20.0	16.4	14.5	20.0	20.0	18.2	18.2	16.4	16.4	16.4
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	5.5	7.2	7.2	9.0	7.2	7.2	5.5	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: P248686

CATALOG NUMBER: LD8B60D010 ER8B60850 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1
2.5°	3759.9	3758.1	3759.9	3761.7	3759.9	3758.1	3759.9	3761.7	3754.5	3752.7	3756.3
5°	3839.8	3839.8	3843.4	3845.3	3843.4	3839.8	3839.8	3832.6	3827.1	3821.6	3819.8
7.5°	3908.8	3912.4	3916.0	3917.8	3916.0	3912.4	3908.8	3897.9	3887.0	3877.9	3870.7
10°	3950.5	3956.0	3963.3	3966.8	3963.3	3956.0	3950.5	3937.8	3923.3	3908.8	3897.9
12.5°	3968.7	3974.2	3983.2	3981.4	3983.2	3974.2	3968.7	3950.5	3934.2	3914.2	3897.9
15°	3956.0	3963.3	3972.3	3976.0	3972.3	3963.3	3956.0	3937.8	3923.3	3901.5	3885.2
17.5°	3916.0	3926.9	3932.4	3937.8	3932.4	3926.9	3916.0	3901.5	3881.6	3863.4	3847.0
20°	3861.5	3868.9	3876.1	3877.9	3876.1	3868.9	3861.5	3845.3	3814.4	3810.7	3798.0
22.5°	3783.5	3789.0	3805.3	3799.8	3805.3	3789.0	3783.5	3769.0	3758.1	3738.1	3725.4
25°	3670.9	3676.4	3678.2	3680.0	3678.2	3676.4	3670.9	3658.2	3647.4	3632.8	3625.6
27.5°	3476.7	3476.7	3480.3	3482.2	3480.3	3476.7	3476.7	3467.6	3460.3	3453.1	3445.8
30°	3182.6	3182.6	3182.6	3191.7	3182.6	3182.6	3182.6	3180.8	3180.8	3182.6	3182.6
32.5°	2843.1	2839.4	2835.8	2839.4	2835.8	2839.4	2843.1	2844.9	2843.1	2848.5	2857.6
35°	2458.2	2456.4	2461.8	2454.6	2461.8	2456.4	2458.2	2458.2	2465.5	2472.7	2474.5
37.5°	2089.6	2086.0	2093.3	2086.0	2093.3	2086.0	2089.6	2087.8	2086.0	2089.6	2084.2
40°	1739.3	1742.9	1742.9	1757.4	1742.9	1742.9	1739.3	1735.6	1722.9	1715.7	1708.4
42.5°	1403.4	1414.3	1410.6	1421.5	1410.6	1414.3	1403.4	1396.1	1381.6	1368.9	1358.0
45°	1085.6	1093.0	1093.0	1096.6	1093.0	1093.0	1085.6	1078.4	1065.7	1054.8	1047.5
47.5°	833.3	833.3	833.3	835.2	833.3	833.3	833.3	820.6	817.0	809.7	800.6
50°	633.6	635.4	637.3	639.1	637.3	635.4	633.6	630.0	628.2	624.5	622.7
52.5°	486.6	488.3	484.8	488.3	484.8	488.3	486.6	488.3	482.9	482.9	481.1
55°	368.6	366.8	368.6	370.3	368.6	366.8	368.6	368.6	366.8	366.8	366.8
57.5°	270.5	266.9	266.9	266.9	266.9	266.9	270.5	268.7	274.2	270.5	272.3
60°	201.5	203.3	203.3	205.1	203.3	203.3	201.5	205.1	205.1	207.0	207.0
62.5°	148.9	154.3	150.7	154.3	150.7	154.3	148.9	150.7	150.7	152.5	154.3
65°	96.2	96.2	96.2	98.0	96.2	96.2	96.2	98.0	99.8	98.0	103.5
67.5°	65.4	67.2	70.8	69.0	70.8	67.2	65.4	67.2	67.2	72.6	70.8
70°	52.7	47.2	47.2	52.7	47.2	47.2	52.7	49.0	47.2	50.8	49.0
72.5°	30.9	27.2	30.9	30.9	30.9	27.2	30.9	27.2	29.1	29.1	32.7
75°	16.4	14.5	12.7	18.2	12.7	14.5	16.4	16.4	16.4	16.4	18.2
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°	5.5	7.2	5.5	9.0	5.5	7.2	5.5	9.0	5.5	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: P248686

CATALOG NUMBER: LD8B60D010 ER8B60850 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1
2.5°	3756.3	3750.8	3752.7	3741.8	3741.8	3738.1	3740.0	3730.8	3727.3	3723.6	3729.1
5°	3810.7	3801.7	3794.4	3778.1	3769.0	3758.1	3752.7	3738.1	3725.4	3714.5	3712.7
7.5°	3854.3	3834.3	3821.6	3799.8	3783.5	3770.8	3752.7	3732.6	3716.4	3701.8	3690.9
10°	3872.5	3852.5	3832.6	3805.3	3787.1	3763.5	3745.3	3719.9	3698.2	3678.2	3665.5
12.5°	3874.3	3848.8	3830.7	3799.8	3776.2	3750.8	3730.8	3701.8	3676.4	3656.4	3636.5
15°	3858.0	3834.3	3812.5	3779.9	3756.3	3732.6	3709.1	3678.2	3654.6	3631.0	3616.5
17.5°	3821.6	3799.8	3774.4	3743.6	3721.8	3700.0	3674.6	3649.2	3621.9	3596.5	3578.3
20°	3774.4	3750.8	3729.1	3698.2	3680.0	3656.4	3632.8	3605.6	3583.8	3558.4	3538.4
22.5°	3703.6	3681.8	3661.9	3643.7	3614.6	3596.5	3580.2	3549.3	3527.5	3503.9	3482.2
25°	3601.9	3580.2	3563.8	3542.0	3529.3	3509.4	3493.0	3465.8	3445.8	3424.0	3405.9
27.5°	3434.9	3422.2	3413.1	3400.4	3389.6	3380.5	3371.4	3349.6	3335.1	3315.1	3297.0
30°	3184.4	3182.6	3177.1	3171.7	3171.7	3178.9	3178.9	3178.9	3175.3	3162.6	3148.0
32.5°	2863.0	2866.7	2873.9	2879.4	2893.9	2910.3	2924.8	2932.0	2932.0	2923.0	2917.5
35°	2480.0	2485.4	2496.3	2510.8	2529.0	2549.0	2581.6	2588.9	2594.3	2594.3	2587.1
37.5°	2082.4	2080.6	2091.5	2104.2	2115.1	2129.6	2153.2	2158.7	2167.7	2164.1	2156.8
40°	1695.6	1686.6	1682.9	1686.6	1699.3	1693.8	1699.3	1695.6	1695.6	1682.9	1682.9
42.5°	1338.0	1327.2	1319.8	1314.5	1314.5	1301.7	1292.6	1283.6	1278.1	1269.0	1267.2
45°	1031.2	1018.5	1009.4	1005.8	1000.4	984.0	973.1	962.2	949.5	945.9	947.7
47.5°	800.6	787.9	784.3	775.2	766.1	757.1	749.8	737.1	735.2	728.0	735.2
50°	617.2	613.7	608.2	604.5	599.1	591.8	584.6	577.3	573.7	573.7	575.5
52.5°	479.3	481.1	475.6	470.2	466.6	466.6	457.5	455.7	455.7	448.4	455.7
55°	366.8	364.9	366.8	363.1	363.1	357.6	357.6	352.2	352.2	346.7	350.4
57.5°	268.7	272.3	268.7	270.5	274.2	268.7	266.9	261.4	265.1	261.4	263.3
60°	208.8	208.8	208.8	207.0	207.0	205.1	205.1	203.3	203.3	199.7	203.3
62.5°	154.3	156.1	156.1	156.1	158.0	156.1	154.3	156.1	154.3	154.3	156.1
65°	101.7	103.5	103.5	101.7	105.3	101.7	103.5	105.3	107.1	105.3	107.1
67.5°	69.0	69.0	70.8	72.6	70.8	72.6	74.4	72.6	74.4	78.1	74.4
70°	50.8	52.7	52.7	50.8	49.0	50.8	49.0	54.5	54.5	54.5	58.1
72.5°	32.7	32.7	30.9	30.9	30.9	30.9	30.9	36.3	32.7	30.9	34.5
75°	18.2	20.0	20.0	14.5	16.4	20.0	14.5	16.4	21.8	18.2	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	5.5	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: P248686

CATALOG NUMBER: LD8B60D010 ER8B60850 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1
2.5°	3714.5	3714.5	3712.7	3709.1	3701.8	3701.8	3700.0	3694.5	3690.9	3689.1	3689.1
5°	3696.3	3689.1	3681.8	3661.9	3661.9	3658.2	3647.4	3640.1	3636.5	3627.4	3623.8
7.5°	3680.0	3658.2	3645.5	3632.8	3616.5	3609.2	3596.5	3591.0	3578.3	3569.3	3563.8
10°	3640.1	3625.6	3609.2	3589.2	3576.5	3562.0	3547.5	3536.6	3520.3	3511.1	3503.9
12.5°	3612.9	3591.0	3576.5	3554.7	3533.0	3520.3	3500.3	3487.6	3471.2	3453.1	3442.2
15°	3587.4	3563.8	3543.9	3520.3	3496.7	3482.2	3458.5	3444.0	3420.4	3402.3	3389.6
17.5°	3549.3	3529.3	3507.6	3478.5	3456.7	3438.6	3413.1	3395.0	3373.2	3349.6	3336.9
20°	3509.4	3485.7	3464.0	3434.9	3413.1	3391.4	3366.0	3346.0	3320.5	3298.8	3284.3
22.5°	3456.7	3429.5	3411.3	3382.2	3356.8	3333.3	3309.7	3286.1	3262.5	3244.3	3227.9
25°	3380.5	3351.4	3331.4	3307.8	3284.3	3266.1	3237.0	3222.6	3198.9	3182.6	3166.2
27.5°	3271.5	3249.8	3231.6	3208.0	3188.0	3173.5	3151.7	3137.2	3117.2	3102.7	3090.0
30°	3111.8	3093.6	3077.3	3053.7	3039.2	3026.5	3006.4	2993.7	2979.2	2962.9	2959.3
32.5°	2897.6	2883.0	2866.7	2850.3	2839.4	2832.2	2815.8	2808.6	2794.1	2784.9	2775.9
35°	2574.4	2561.7	2552.6	2545.4	2541.7	2543.5	2539.9	2547.2	2550.8	2549.0	2550.8
37.5°	2151.4	2144.1	2147.7	2153.2	2171.4	2195.0	2216.7	2249.4	2271.2	2293.0	2313.0
40°	1679.4	1684.8	1699.3	1732.0	1779.2	1831.9	1880.9	1942.6	2004.3	2047.9	2087.8
42.5°	1267.2	1283.6	1319.8	1367.1	1437.9	1515.9	1592.2	1682.9	1757.4	1830.0	1880.9
45°	953.2	974.9	1022.1	1087.5	1165.5	1256.3	1352.6	1454.2	1543.2	1617.6	1673.9
47.5°	742.6	762.5	809.7	878.7	974.9	1069.4	1169.2	1274.5	1367.1	1439.7	1488.7
50°	586.4	611.8	653.6	726.2	822.5	922.3	1025.8	1129.2	1216.4	1278.1	1321.7
52.5°	461.1	484.8	524.7	601.0	699.0	798.8	895.0	996.7	1072.9	1132.9	1161.9
55°	357.6	379.5	421.2	484.8	577.3	675.4	771.6	858.8	929.5	973.1	1000.4
57.5°	272.3	288.7	317.7	381.3	464.8	555.5	637.3	724.4	778.9	809.7	827.8
60°	207.0	219.7	250.6	299.6	375.8	453.9	522.9	588.3	631.8	657.2	675.4
62.5°	156.1	170.7	192.4	234.2	292.3	355.9	413.9	462.9	499.3	515.6	528.3
65°	107.1	118.0	134.4	167.0	216.0	261.4	306.8	343.1	366.8	384.9	392.2
67.5°	79.9	87.1	96.2	121.7	156.1	192.4	223.3	248.7	274.2	281.4	294.1
70°	59.9	65.4	74.4	92.6	112.5	137.9	163.4	177.9	196.1	208.8	212.5
72.5°	38.1	39.9	49.0	59.9	76.2	92.6	109.0	121.7	132.6	139.8	143.4
75°	21.8	32.7	32.7	43.6	54.5	61.7	72.6	81.7	87.1	92.6	92.6
77.5°	14.5	20.0	21.8	27.2	32.7	41.8	50.8	56.3	61.7	63.5	63.5
80°	12.7	14.5	14.5	20.0	23.6	30.9	36.3	38.1	41.8	43.6	47.2
82.5°	5.5	7.2	9.0	14.5	16.4	16.4	21.8	23.6	27.2	29.1	29.1
85°	1.8	3.7	3.7	5.5	9.0	10.9	12.7	14.5	16.4	16.4	18.2
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: P248686

CATALOG NUMBER: LD8B60D010 ER8B60850 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1	3718.1
2.5°	3685.5	3687.3	3680.0	3678.2	3674.6	3676.4	3680.0
5°	3618.3	3620.1	3612.9	3605.6	3605.6	3603.7	3605.6
7.5°	3554.7	3556.6	3545.7	3542.0	3534.8	3536.6	3536.6
10°	3491.2	3491.2	3474.9	3473.0	3467.6	3465.8	3465.8
12.5°	3429.5	3424.0	3411.3	3404.1	3407.7	3396.8	3396.8
15°	3375.0	3366.0	3349.6	3344.1	3335.1	3331.4	3331.4
17.5°	3318.7	3311.5	3297.0	3286.1	3275.2	3273.4	3275.2
20°	3264.2	3257.0	3238.8	3231.6	3222.6	3222.6	3218.9
22.5°	3209.8	3202.5	3186.2	3180.8	3168.1	3168.1	3169.9
25°	3153.5	3148.0	3129.9	3126.3	3124.5	3117.2	3120.8
27.5°	3077.3	3073.6	3059.1	3053.7	3046.4	3044.6	3048.2
30°	2937.5	2932.0	2921.2	2915.7	2903.0	2904.8	2908.4
32.5°	2763.2	2756.0	2741.4	2735.9	2725.1	2721.4	2723.2
35°	2545.4	2539.9	2527.2	2527.2	2516.3	2512.6	2516.3
37.5°	2323.9	2329.3	2323.9	2329.3	2323.9	2322.0	2323.9
40°	2115.1	2135.0	2138.6	2158.7	2151.4	2162.2	2160.4
42.5°	1915.3	1948.0	1960.8	1977.1	1973.5	1980.7	1986.2
45°	1713.8	1741.1	1753.8	1764.7	1766.5	1770.1	1771.9
47.5°	1523.2	1545.0	1546.8	1559.5	1557.7	1557.7	1563.2
50°	1345.3	1359.8	1363.4	1372.5	1365.3	1361.6	1363.4
52.5°	1180.1	1194.6	1190.9	1194.6	1185.6	1181.9	1183.7
55°	1011.2	1018.5	1018.5	1018.5	1007.6	1007.6	1007.6
57.5°	838.7	840.6	836.9	838.7	836.9	826.0	824.2
60°	680.8	680.8	679.0	680.8	675.4	669.9	669.9
62.5°	531.9	535.6	542.8	535.6	531.9	535.6	530.1
65°	397.6	404.9	403.0	406.7	404.9	404.9	401.2
67.5°	299.6	301.4	303.2	305.0	305.0	305.0	305.0
70°	219.7	225.2	223.3	223.3	223.3	223.3	234.2
72.5°	147.1	154.3	152.5	156.1	156.1	159.8	156.1
75°	99.8	107.1	103.5	109.0	107.1	103.5	112.5
77.5°	67.2	70.8	72.6	74.4	72.6	70.8	72.6
80°	47.2	50.8	49.0	50.8	50.8	50.8	52.7
82.5°	29.1	34.5	32.7	34.5	32.7	34.5	34.5
85°	20.0	21.8	18.2	21.8	20.0	20.0	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)