

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: P248992

Luminaire Tested: **LD8B60D010 ER8B60835 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248992
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 ER8B60835 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6172.0 lumens
Efficiency: N/A
Efficacy: 103.7 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

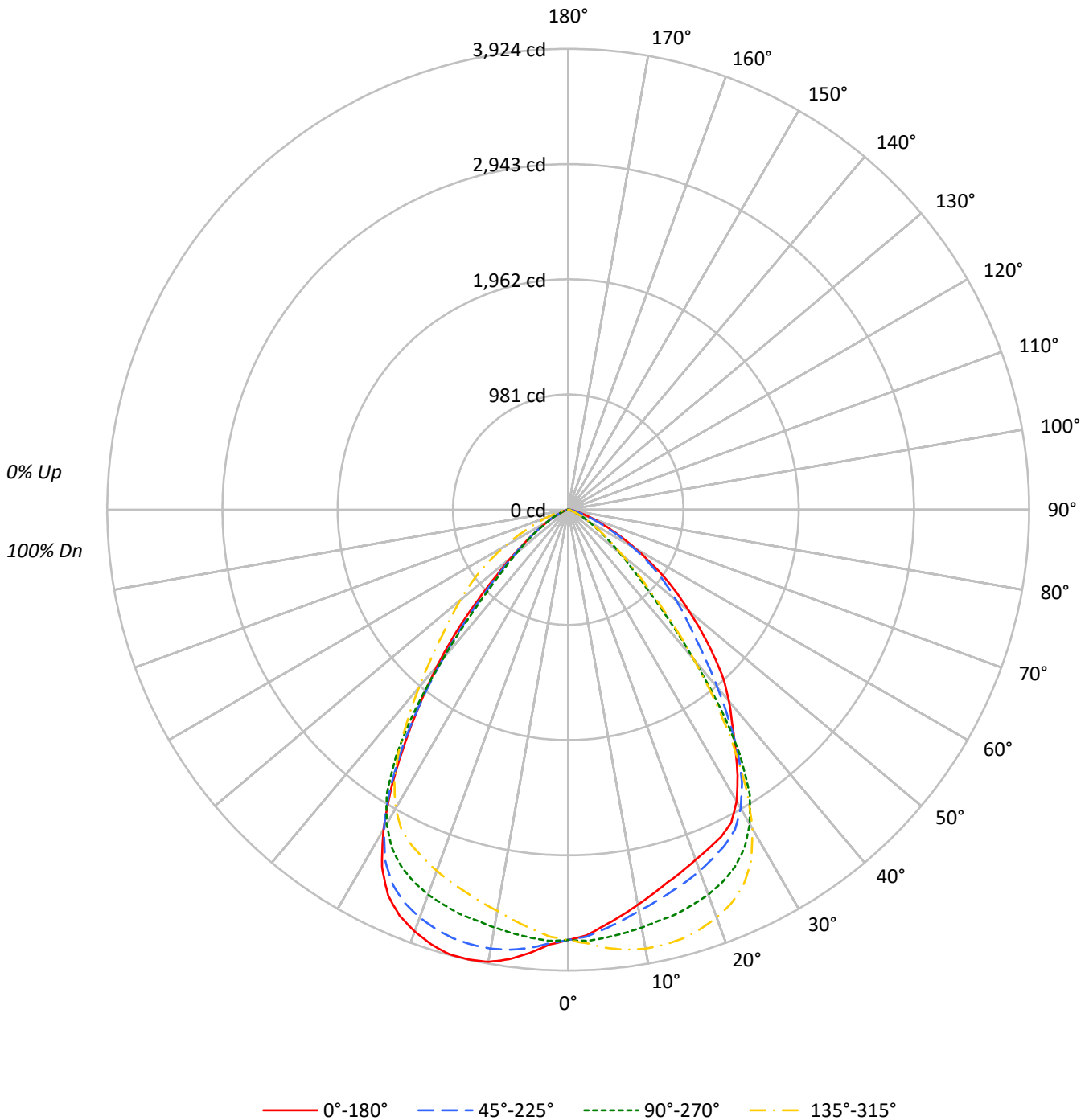
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	112987	112987	112987	112987
5°	109986	113252	117297	113252
10°	106943	113105	122405	113105
15°	104807	113777	125085	113777
20°	104093	114427	125407	114427
25°	104641	114199	123392	114199
30°	102052	110018	111994	110018
35°	93346	95974	91058	95974
40°	85705	66761	69716	66761
45°	76150	40727	47124	40727
50°	64456	27205	30213	27205
55°	53385	18564	19623	18564
60°	40716	12359	12464	12359
65°	28850	7698	7048	7698
70°	20809	5157	4679	5157
75°	13213	2562	2133	2562
80°	9216	1918	1580	1918
85°	8244	0	637	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.8	5.7
10°-20°	1009.9	16.4
20°-30°	1529.3	24.8
30°-40°	1532.7	24.8
40°-50°	962.4	15.6
50°-60°	512.9	8.3
60°-70°	210.9	3.4
70°-80°	55.7	0.9
80°-90°	9.4	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°	2887.9	46.8
0°-40°	4420.6	71.6
0°-60°	5896.0	95.5
0°-90°	6172.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6172.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3664	3664	3664	3664	3664	
5°	3553	3659	3789	3659	3553	335
15°	3283	3564	3918	3564	3283	929
25°	3076	3356	3627	3356	3076	1411
35°	2480	2550	2419	2550	2480	1554
45°	1746	934	1081	934	1746	1343
55°	993	345	365	345	993	885
65°	395	106	97	106	395	410
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°	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1
2.5°	3626.6	3623.0	3621.2	3624.8	3626.6	3633.7	3631.9	3635.5	3635.5	3637.3	3640.9
5°	3553.2	3551.4	3553.2	3553.2	3560.4	3567.5	3565.7	3571.1	3574.6	3583.6	3587.2
7.5°	3485.2	3485.2	3483.4	3490.5	3494.2	3504.9	3503.1	3512.1	3517.4	3526.3	3538.9
10°	3415.4	3415.4	3417.2	3422.6	3424.4	3440.5	3440.5	3453.0	3460.1	3469.1	3485.2
12.5°	3347.5	3347.5	3358.2	3354.6	3361.7	3374.3	3379.6	3392.2	3402.9	3420.8	3436.9
15°	3283.0	3283.0	3286.6	3295.5	3300.9	3317.0	3326.0	3340.3	3352.8	3370.7	3394.0
17.5°	3227.6	3225.8	3227.6	3238.3	3249.1	3263.4	3270.5	3288.4	3300.9	3324.2	3345.7
20°	3172.1	3175.7	3175.7	3184.6	3191.8	3209.7	3216.8	3236.6	3250.8	3272.3	3297.4
22.5°	3123.8	3122.0	3122.0	3134.6	3139.9	3156.0	3163.1	3181.0	3197.2	3215.1	3238.3
25°	3075.5	3071.9	3079.1	3080.9	3084.4	3102.3	3107.7	3120.2	3136.3	3152.5	3175.7
27.5°	3003.9	3000.4	3002.2	3009.3	3014.7	3029.0	3032.6	3045.1	3057.6	3071.9	3091.6
30°	2866.1	2862.6	2860.8	2873.4	2878.7	2889.4	2894.8	2916.3	2919.8	2936.0	2950.2
32.5°	2683.7	2681.9	2685.5	2696.2	2701.5	2715.9	2723.1	2735.6	2744.5	2753.5	2767.8
35°	2479.7	2476.1	2479.7	2490.5	2490.5	2503.0	2508.4	2513.7	2511.9	2513.7	2510.2
37.5°	2290.1	2288.3	2290.1	2295.4	2290.1	2295.4	2290.1	2279.4	2259.7	2238.2	2216.7
40°	2129.1	2130.8	2120.1	2127.3	2107.6	2104.0	2084.4	2057.5	2018.2	1975.2	1914.4
42.5°	1957.3	1951.9	1944.8	1948.3	1932.3	1919.7	1887.5	1853.6	1803.4	1731.9	1658.5
45°	1746.2	1744.4	1740.8	1739.1	1728.3	1715.8	1688.9	1649.6	1594.1	1520.8	1433.1
47.5°	1540.4	1535.1	1535.1	1536.8	1524.3	1522.5	1501.0	1467.1	1418.8	1347.2	1256.0
50°	1343.6	1341.8	1345.4	1352.6	1343.6	1340.1	1325.8	1302.5	1259.6	1198.7	1112.8
52.5°	1166.5	1164.7	1168.3	1177.2	1173.6	1177.2	1163.0	1145.1	1116.4	1057.3	982.2
55°	993.0	993.0	993.0	1003.7	1003.7	1003.7	996.5	985.8	959.0	916.0	846.3
57.5°	812.3	814.0	824.8	826.6	824.8	828.4	826.6	815.8	798.0	767.6	713.9
60°	660.2	660.2	665.6	671.0	669.1	671.0	671.0	665.6	647.7	622.6	579.7
62.5°	522.4	527.8	524.2	527.8	534.9	527.8	524.2	520.6	508.1	492.0	456.2
65°	395.4	399.0	399.0	400.8	397.2	399.0	391.8	386.5	379.3	361.4	338.2
67.5°	300.6	300.6	300.6	300.6	298.8	297.0	295.2	289.9	277.3	270.2	245.1
70°	230.8	220.0	220.0	220.0	220.0	221.9	216.5	209.4	205.8	193.2	175.3
72.5°	153.8	157.4	153.8	153.8	150.3	152.1	144.9	141.3	137.8	130.6	119.9
75°	110.9	102.0	105.5	107.4	102.0	105.5	98.4	91.2	91.2	85.9	80.5
77.5°	71.6	69.8	71.6	73.3	71.6	69.8	66.2	62.6	62.6	60.8	55.5
80°	51.9	50.1	50.1	50.1	48.3	50.1	46.5	46.5	42.9	41.2	37.6
82.5°	34.0	34.0	32.2	34.0	32.2	34.0	28.6	28.6	28.6	26.8	23.3
85°	23.3	19.7	19.7	21.5	17.9	21.5	19.7	17.9	16.1	16.1	14.3
87.5°	10.8	12.5	10.8	12.5	10.8	10.8	12.5	10.8	10.8	7.1	7.1
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°	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1
2.5°	3646.2	3648.0	3648.0	3655.2	3658.7	3660.5	3660.5	3674.9	3669.5	3673.1	3676.6
5°	3594.4	3605.1	3608.7	3608.7	3628.3	3635.5	3642.6	3658.7	3660.5	3671.3	3683.8
7.5°	3544.2	3556.8	3564.0	3580.0	3592.5	3605.1	3626.6	3637.3	3648.0	3662.4	3678.4
10°	3495.9	3510.3	3524.6	3537.1	3556.8	3572.9	3587.2	3612.2	3624.8	3644.5	3665.9
12.5°	3449.5	3469.1	3481.6	3503.1	3524.6	3538.9	3560.4	3583.6	3603.3	3623.0	3648.0
15°	3408.3	3431.6	3445.8	3469.1	3492.4	3512.1	3535.3	3564.0	3578.3	3601.5	3624.8
17.5°	3363.5	3388.6	3406.5	3428.0	3456.6	3478.0	3497.8	3526.3	3544.2	3569.3	3596.1
20°	3317.0	3342.1	3363.5	3385.0	3413.7	3435.1	3458.4	3487.0	3506.7	3531.7	3553.2
22.5°	3261.6	3284.9	3308.1	3333.1	3361.7	3379.6	3406.5	3431.6	3453.0	3476.3	3497.8
25°	3190.0	3218.7	3236.6	3259.8	3283.0	3302.7	3331.3	3356.4	3374.3	3395.8	3415.4
27.5°	3105.9	3127.4	3141.7	3161.4	3184.6	3202.5	3224.0	3249.1	3267.0	3286.6	3300.9
30°	2962.8	2982.5	2995.0	3009.3	3032.6	3048.7	3066.6	3089.8	3102.3	3116.7	3129.2
32.5°	2774.9	2791.0	2798.2	2808.9	2825.0	2841.1	2855.5	2875.1	2880.5	2889.4	2889.4
35°	2503.0	2506.5	2504.8	2508.4	2515.5	2524.4	2537.0	2549.5	2556.6	2556.6	2551.3
37.5°	2184.5	2163.1	2139.8	2121.9	2116.5	2112.9	2120.1	2125.4	2132.7	2136.2	2127.3
40°	1853.6	1805.3	1753.3	1706.8	1674.6	1660.3	1655.0	1658.5	1658.5	1671.0	1671.0
42.5°	1569.1	1493.9	1417.0	1347.2	1300.7	1264.9	1248.8	1248.8	1250.6	1259.6	1264.9
45°	1332.9	1238.1	1148.6	1071.7	1007.3	960.7	939.3	933.9	932.2	935.7	948.2
47.5°	1152.2	1053.8	960.7	866.0	798.0	751.4	731.8	724.6	717.4	724.6	726.4
50°	1010.9	908.9	810.5	715.7	644.1	602.9	577.9	567.1	565.3	565.3	569.0
52.5°	882.0	787.2	688.8	592.2	517.0	477.7	454.4	449.1	441.9	449.1	449.1
55°	760.4	665.6	569.0	477.7	415.0	374.0	352.4	345.3	341.7	347.1	347.1
57.5°	628.0	547.5	458.1	375.7	313.1	284.5	268.4	259.4	257.6	261.2	257.6
60°	515.3	447.3	370.3	295.2	246.9	216.5	204.0	200.4	196.8	200.4	200.4
62.5°	407.9	350.7	288.0	230.8	189.6	168.2	153.8	153.8	152.1	152.1	153.8
65°	302.4	257.6	212.9	164.6	132.4	116.3	105.5	105.5	103.8	105.5	103.8
67.5°	220.0	189.6	153.8	119.9	94.9	85.9	78.7	73.3	77.0	73.3	71.6
70°	161.1	135.9	110.9	91.2	73.3	64.4	59.1	57.2	53.7	53.7	53.7
72.5°	107.4	91.2	75.1	59.1	48.3	39.3	37.6	34.0	30.4	32.2	35.8
75°	71.6	60.8	53.7	42.9	32.2	32.2	21.5	21.5	17.9	21.5	16.1
77.5°	50.1	41.2	32.2	26.8	21.5	19.7	14.3	14.3	12.5	12.5	12.5
80°	35.8	30.4	23.3	19.7	14.3	14.3	12.5	10.8	8.9	8.9	10.8
82.5°	21.5	16.1	16.1	14.3	8.9	7.1	5.4	7.1	3.6	3.6	3.6
85°	12.5	10.8	8.9	5.4	3.6	3.6	1.8	0.0	1.8	1.8	0.0
87.5°	7.1	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°	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1
2.5°	3685.6	3683.8	3687.4	3687.4	3698.1	3696.3	3701.7	3701.7	3698.1	3699.9	3707.1
5°	3698.1	3703.5	3714.2	3723.2	3739.2	3746.5	3755.4	3764.3	3766.1	3771.5	3776.9
7.5°	3698.1	3716.0	3728.6	3744.6	3766.1	3778.6	3798.3	3814.4	3821.6	3830.5	3841.2
10°	3690.9	3708.8	3732.1	3750.0	3776.9	3796.5	3816.2	3841.2	3852.0	3866.3	3880.6
12.5°	3676.6	3696.3	3721.3	3744.6	3775.0	3792.9	3818.0	3841.2	3857.4	3877.0	3893.1
15°	3655.2	3678.4	3701.7	3724.9	3757.1	3778.6	3801.9	3828.7	3844.8	3866.3	3880.6
17.5°	3621.2	3646.2	3667.7	3689.2	3719.6	3744.6	3766.1	3791.2	3807.3	3825.2	3844.8
20°	3580.0	3603.3	3626.6	3644.5	3674.9	3696.3	3719.6	3742.8	3755.4	3759.0	3789.4
22.5°	3528.2	3544.2	3562.1	3590.8	3608.7	3628.3	3649.8	3671.3	3683.8	3703.5	3714.2
25°	3442.2	3458.4	3478.0	3490.5	3512.1	3528.2	3549.6	3572.9	3580.0	3594.4	3605.1
27.5°	3322.4	3331.3	3340.3	3351.0	3363.5	3372.5	3385.0	3395.8	3402.9	3410.1	3417.2
30°	3132.7	3132.7	3132.7	3125.6	3131.0	3136.3	3138.1	3136.3	3136.3	3134.6	3134.6
32.5°	2882.3	2868.0	2851.9	2837.6	2832.2	2825.0	2821.4	2816.1	2807.2	2801.8	2803.5
35°	2544.1	2511.9	2492.3	2474.4	2460.1	2449.3	2444.0	2438.6	2436.8	2429.7	2422.4
37.5°	2121.9	2098.6	2084.4	2073.6	2061.1	2050.3	2052.1	2053.9	2059.2	2055.7	2057.5
40°	1674.6	1669.2	1674.6	1662.1	1658.5	1662.1	1671.0	1683.6	1690.7	1697.9	1710.4
42.5°	1273.9	1282.8	1295.4	1295.4	1300.7	1307.9	1318.6	1338.3	1349.0	1361.5	1375.8
45°	959.0	969.7	985.8	991.1	994.8	1003.7	1016.3	1032.3	1039.5	1050.2	1062.7
47.5°	738.9	746.1	755.0	764.0	772.9	776.5	789.0	789.0	798.0	805.1	808.7
50°	576.1	583.2	590.4	595.8	599.4	604.7	608.3	613.7	615.4	619.0	620.8
52.5°	450.8	459.8	459.8	463.4	468.7	474.1	472.3	474.1	475.9	475.9	481.2
55°	352.4	352.4	357.8	357.8	361.4	359.6	361.4	361.4	361.4	361.4	363.2
57.5°	263.0	264.8	270.2	266.6	264.8	268.4	264.8	268.4	266.6	270.2	264.8
60°	202.1	202.1	204.0	204.0	205.8	205.8	205.8	204.0	204.0	202.1	202.1
62.5°	152.1	153.8	155.7	153.8	153.8	153.8	152.1	152.1	150.3	148.5	148.5
65°	102.0	100.2	103.8	100.2	102.0	102.0	100.2	102.0	96.6	98.4	96.6
67.5°	73.3	71.6	69.8	71.6	69.8	68.0	68.0	69.8	71.6	66.2	66.2
70°	48.3	50.1	48.3	50.1	51.9	51.9	50.1	48.3	50.1	46.5	48.3
72.5°	30.4	30.4	30.4	30.4	30.4	32.2	32.2	32.2	28.6	28.6	26.8
75°	14.3	19.7	16.1	14.3	19.7	19.7	17.9	17.9	16.1	16.1	16.1
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°	7.1	7.1	7.1	5.4	7.1	7.1	8.9	7.1	7.1	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: P248992

CATALOG NUMBER: LD8B60D010 ER8B60835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1
2.5°	3705.3	3703.5	3705.3	3707.1	3705.3	3703.5	3705.3	3707.1	3699.9	3698.1	3701.7
5°	3784.0	3784.0	3787.5	3789.4	3787.5	3784.0	3784.0	3776.9	3771.5	3766.1	3764.3
7.5°	3852.0	3855.6	3859.1	3860.9	3859.1	3855.6	3852.0	3841.2	3830.5	3821.6	3814.4
10°	3893.1	3898.5	3905.7	3909.2	3905.7	3898.5	3893.1	3880.6	3866.3	3852.0	3841.2
12.5°	3911.0	3916.4	3925.3	3923.6	3925.3	3916.4	3911.0	3893.1	3877.0	3857.4	3841.2
15°	3898.5	3905.7	3914.6	3918.2	3914.6	3905.7	3898.5	3880.6	3866.3	3844.8	3828.7
17.5°	3859.1	3869.9	3875.3	3880.6	3875.3	3869.9	3859.1	3844.8	3825.2	3807.3	3791.2
20°	3805.4	3812.7	3819.8	3821.6	3819.8	3812.7	3805.4	3789.4	3759.0	3755.4	3742.8
22.5°	3728.6	3733.9	3750.0	3744.6	3750.0	3733.9	3728.6	3714.2	3703.5	3683.8	3671.3
25°	3617.6	3623.0	3624.8	3626.6	3624.8	3623.0	3617.6	3605.1	3594.4	3580.0	3572.9
27.5°	3426.2	3426.2	3429.7	3431.6	3429.7	3426.2	3426.2	3417.2	3410.1	3402.9	3395.8
30°	3136.3	3136.3	3136.3	3145.3	3136.3	3136.3	3136.3	3134.6	3134.6	3136.3	3136.3
32.5°	2801.8	2798.2	2794.6	2798.2	2794.6	2798.2	2801.8	2803.5	2801.8	2807.2	2816.1
35°	2422.4	2420.7	2426.1	2418.9	2426.1	2420.7	2422.4	2422.4	2429.7	2436.8	2438.6
37.5°	2059.2	2055.7	2062.9	2055.7	2062.9	2055.7	2059.2	2057.5	2055.7	2059.2	2053.9
40°	1714.0	1717.5	1717.5	1731.9	1717.5	1717.5	1714.0	1710.4	1697.9	1690.7	1683.6
42.5°	1383.0	1393.7	1390.1	1400.9	1390.1	1393.7	1383.0	1375.8	1361.5	1349.0	1338.3
45°	1069.9	1077.1	1077.1	1080.6	1077.1	1077.1	1069.9	1062.7	1050.2	1039.5	1032.3
47.5°	821.2	821.2	821.2	823.0	821.2	821.2	821.2	808.7	805.1	798.0	789.0
50°	624.4	626.2	628.0	629.8	628.0	626.2	624.4	620.8	619.0	615.4	613.7
52.5°	479.5	481.2	477.7	481.2	477.7	481.2	479.5	481.2	475.9	475.9	474.1
55°	363.2	361.4	363.2	365.0	363.2	361.4	363.2	363.2	361.4	361.4	361.4
57.5°	266.6	263.0	263.0	263.0	263.0	263.0	266.6	264.8	270.2	266.6	268.4
60°	198.6	200.4	200.4	202.1	200.4	200.4	198.6	202.1	202.1	204.0	204.0
62.5°	146.7	152.1	148.5	152.1	148.5	152.1	146.7	148.5	148.5	150.3	152.1
65°	94.9	94.9	94.9	96.6	94.9	94.9	94.9	96.6	98.4	96.6	102.0
67.5°	64.4	66.2	69.8	68.0	69.8	66.2	64.4	66.2	66.2	71.6	69.8
70°	51.9	46.5	46.5	51.9	46.5	46.5	51.9	48.3	46.5	50.1	48.3
72.5°	30.4	26.8	30.4	30.4	30.4	26.8	30.4	26.8	28.6	28.6	32.2
75°	16.1	14.3	12.5	17.9	12.5	14.3	16.1	16.1	16.1	16.1	17.9
77.5°	10.8	8.9	12.5	12.5	12.5	8.9	10.8	8.9	10.8	8.9	10.8
80°	5.4	7.1	5.4	8.9	5.4	7.1	5.4	8.9	5.4	7.1	7.1
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: P248992

CATALOG NUMBER: LD8B60D010 ER8B60835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1
2.5°	3701.7	3696.3	3698.1	3687.4	3687.4	3683.8	3685.6	3676.6	3673.1	3669.5	3674.9
5°	3755.4	3746.5	3739.2	3723.2	3714.2	3703.5	3698.1	3683.8	3671.3	3660.5	3658.7
7.5°	3798.3	3778.6	3766.1	3744.6	3728.6	3716.0	3698.1	3678.4	3662.4	3648.0	3637.3
10°	3816.2	3796.5	3776.9	3750.0	3732.1	3708.8	3690.9	3665.9	3644.5	3624.8	3612.2
12.5°	3818.0	3792.9	3775.0	3744.6	3721.3	3696.3	3676.6	3648.0	3623.0	3603.3	3583.6
15°	3801.9	3778.6	3757.1	3724.9	3701.7	3678.4	3655.2	3624.8	3601.5	3578.3	3564.0
17.5°	3766.1	3744.6	3719.6	3689.2	3667.7	3646.2	3621.2	3596.1	3569.3	3544.2	3526.3
20°	3719.6	3696.3	3674.9	3644.5	3626.6	3603.3	3580.0	3553.2	3531.7	3506.7	3487.0
22.5°	3649.8	3628.3	3608.7	3590.8	3562.1	3544.2	3528.2	3497.8	3476.3	3453.0	3431.6
25°	3549.6	3528.2	3512.1	3490.5	3478.0	3458.4	3442.2	3415.4	3395.8	3374.3	3356.4
27.5°	3385.0	3372.5	3363.5	3351.0	3340.3	3331.3	3322.4	3300.9	3286.6	3267.0	3249.1
30°	3138.1	3136.3	3131.0	3125.6	3132.7	3132.7	3132.7	3129.2	3116.7	3102.3	3089.8
32.5°	2821.4	2825.0	2832.2	2837.6	2851.9	2868.0	2882.3	2889.4	2889.4	2880.5	2875.1
35°	2444.0	2449.3	2460.1	2474.4	2492.3	2511.9	2544.1	2551.3	2556.6	2556.6	2549.5
37.5°	2052.1	2050.3	2061.1	2073.6	2084.4	2098.6	2121.9	2127.3	2136.2	2132.7	2125.4
40°	1671.0	1662.1	1658.5	1662.1	1674.6	1669.2	1674.6	1671.0	1671.0	1658.5	1658.5
42.5°	1318.6	1307.9	1300.7	1295.4	1295.4	1282.8	1273.9	1264.9	1259.6	1250.6	1248.8
45°	1016.3	1003.7	994.8	991.1	985.8	969.7	959.0	948.2	935.7	932.2	933.9
47.5°	789.0	776.5	772.9	764.0	755.0	746.1	738.9	726.4	724.6	717.4	724.6
50°	608.3	604.7	599.4	595.8	590.4	583.2	576.1	569.0	565.3	565.3	567.1
52.5°	472.3	474.1	468.7	463.4	459.8	459.8	450.8	449.1	449.1	441.9	449.1
55°	361.4	359.6	361.4	357.8	357.8	352.4	352.4	347.1	347.1	341.7	345.3
57.5°	264.8	268.4	264.8	266.6	270.2	264.8	263.0	257.6	261.2	257.6	259.4
60°	205.8	205.8	205.8	204.0	204.0	202.1	202.1	200.4	200.4	196.8	200.4
62.5°	152.1	153.8	153.8	153.8	155.7	153.8	152.1	153.8	152.1	152.1	153.8
65°	100.2	102.0	102.0	100.2	103.8	100.2	102.0	103.8	105.5	103.8	105.5
67.5°	68.0	68.0	69.8	71.6	69.8	71.6	73.3	71.6	73.3	77.0	73.3
70°	50.1	51.9	51.9	50.1	48.3	50.1	48.3	53.7	53.7	53.7	57.2
72.5°	32.2	32.2	30.4	30.4	30.4	30.4	30.4	35.8	32.2	30.4	34.0
75°	17.9	19.7	19.7	14.3	16.1	19.7	14.3	16.1	21.5	17.9	21.5
77.5°	10.8	10.8	10.8	10.8	10.8	10.8	14.3	12.5	12.5	12.5	14.3
80°	8.9	7.1	7.1	5.4	7.1	7.1	7.1	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	7.1
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: P248992

CATALOG NUMBER: LD8B60D010 ER8B60835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1
2.5°	3660.5	3660.5	3658.7	3655.2	3648.0	3648.0	3646.2	3640.9	3637.3	3635.5	3635.5
5°	3642.6	3635.5	3628.3	3608.7	3608.7	3605.1	3594.4	3587.2	3583.6	3574.6	3571.1
7.5°	3626.6	3605.1	3592.5	3580.0	3564.0	3556.8	3544.2	3538.9	3526.3	3517.4	3512.1
10°	3587.2	3572.9	3556.8	3537.1	3524.6	3510.3	3495.9	3485.2	3469.1	3460.1	3453.0
12.5°	3560.4	3538.9	3524.6	3503.1	3481.6	3469.1	3449.5	3436.9	3420.8	3402.9	3392.2
15°	3535.3	3512.1	3492.4	3469.1	3445.8	3431.6	3408.3	3394.0	3370.7	3352.8	3340.3
17.5°	3497.8	3478.0	3456.6	3428.0	3406.5	3388.6	3363.5	3345.7	3324.2	3300.9	3288.4
20°	3458.4	3435.1	3413.7	3385.0	3363.5	3342.1	3317.0	3297.4	3272.3	3250.8	3236.6
22.5°	3406.5	3379.6	3361.7	3333.1	3308.1	3284.9	3261.6	3238.3	3215.1	3197.2	3181.0
25°	3331.3	3302.7	3283.0	3259.8	3236.6	3218.7	3190.0	3175.7	3152.5	3136.3	3120.2
27.5°	3224.0	3202.5	3184.6	3161.4	3141.7	3127.4	3105.9	3091.6	3071.9	3057.6	3045.1
30°	3066.6	3048.7	3032.6	3009.3	2995.0	2982.5	2962.8	2950.2	2936.0	2919.8	2916.3
32.5°	2855.5	2841.1	2825.0	2808.9	2798.2	2791.0	2774.9	2767.8	2753.5	2744.5	2735.6
35°	2537.0	2524.4	2515.5	2508.4	2504.8	2506.5	2503.0	2510.2	2513.7	2511.9	2513.7
37.5°	2120.1	2112.9	2116.5	2121.9	2139.8	2163.1	2184.5	2216.7	2238.2	2259.7	2279.4
40°	1655.0	1660.3	1674.6	1706.8	1753.3	1805.3	1853.6	1914.4	1975.2	2018.2	2057.5
42.5°	1248.8	1264.9	1300.7	1347.2	1417.0	1493.9	1569.1	1658.5	1731.9	1803.4	1853.6
45°	939.3	960.7	1007.3	1071.7	1148.6	1238.1	1332.9	1433.1	1520.8	1594.1	1649.6
47.5°	731.8	751.4	798.0	866.0	960.7	1053.8	1152.2	1256.0	1347.2	1418.8	1467.1
50°	577.9	602.9	644.1	715.7	810.5	908.9	1010.9	1112.8	1198.7	1259.6	1302.5
52.5°	454.4	477.7	517.0	592.2	688.8	787.2	882.0	982.2	1057.3	1116.4	1145.1
55°	352.4	374.0	415.0	477.7	569.0	665.6	760.4	846.3	916.0	959.0	985.8
57.5°	268.4	284.5	313.1	375.7	458.1	547.5	628.0	713.9	767.6	798.0	815.8
60°	204.0	216.5	246.9	295.2	370.3	447.3	515.3	579.7	622.6	647.7	665.6
62.5°	153.8	168.2	189.6	230.8	288.0	350.7	407.9	456.2	492.0	508.1	520.6
65°	105.5	116.3	132.4	164.6	212.9	257.6	302.4	338.2	361.4	379.3	386.5
67.5°	78.7	85.9	94.9	119.9	153.8	189.6	220.0	245.1	270.2	277.3	289.9
70°	59.1	64.4	73.3	91.2	110.9	135.9	161.1	175.3	193.2	205.8	209.4
72.5°	37.6	39.3	48.3	59.1	75.1	91.2	107.4	119.9	130.6	137.8	141.3
75°	21.5	32.2	32.2	42.9	53.7	60.8	71.6	80.5	85.9	91.2	91.2
77.5°	14.3	19.7	21.5	26.8	32.2	41.2	50.1	55.5	60.8	62.6	62.6
80°	12.5	14.3	14.3	19.7	23.3	30.4	35.8	37.6	41.2	42.9	46.5
82.5°	5.4	7.1	8.9	14.3	16.1	16.1	21.5	23.3	26.8	28.6	28.6
85°	1.8	3.6	3.6	5.4	8.9	10.8	12.5	14.3	16.1	16.1	17.9
87.5°	1.8	1.8	0.0	1.8	3.6	3.6	7.1	7.1	7.1	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: P248992

CATALOG NUMBER: LD8B60D010 ER8B60835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1	3664.1
2.5°	3631.9	3633.7	3626.6	3624.8	3621.2	3623.0	3626.6
5°	3565.7	3567.5	3560.4	3553.2	3553.2	3551.4	3553.2
7.5°	3503.1	3504.9	3494.2	3490.5	3483.4	3485.2	3485.2
10°	3440.5	3440.5	3424.4	3422.6	3417.2	3415.4	3415.4
12.5°	3379.6	3374.3	3361.7	3354.6	3358.2	3347.5	3347.5
15°	3326.0	3317.0	3300.9	3295.5	3286.6	3283.0	3283.0
17.5°	3270.5	3263.4	3249.1	3238.3	3227.6	3225.8	3227.6
20°	3216.8	3209.7	3191.8	3184.6	3175.7	3175.7	3172.1
22.5°	3163.1	3156.0	3139.9	3134.6	3122.0	3122.0	3123.8
25°	3107.7	3102.3	3084.4	3080.9	3079.1	3071.9	3075.5
27.5°	3032.6	3029.0	3014.7	3009.3	3002.2	3000.4	3003.9
30°	2894.8	2889.4	2878.7	2873.4	2860.8	2862.6	2866.1
32.5°	2723.1	2715.9	2701.5	2696.2	2685.5	2681.9	2683.7
35°	2508.4	2503.0	2490.5	2490.5	2479.7	2476.1	2479.7
37.5°	2290.1	2295.4	2290.1	2295.4	2290.1	2288.3	2290.1
40°	2084.4	2104.0	2107.6	2127.3	2120.1	2130.8	2129.1
42.5°	1887.5	1919.7	1932.3	1948.3	1944.8	1951.9	1957.3
45°	1688.9	1715.8	1728.3	1739.1	1740.8	1744.4	1746.2
47.5°	1501.0	1522.5	1524.3	1536.8	1535.1	1535.1	1540.4
50°	1325.8	1340.1	1343.6	1352.6	1345.4	1341.8	1343.6
52.5°	1163.0	1177.2	1173.6	1177.2	1168.3	1164.7	1166.5
55°	996.5	1003.7	1003.7	1003.7	993.0	993.0	993.0
57.5°	826.6	828.4	824.8	826.6	824.8	814.0	812.3
60°	671.0	671.0	669.1	671.0	665.6	660.2	660.2
62.5°	524.2	527.8	534.9	527.8	524.2	527.8	522.4
65°	391.8	399.0	397.2	400.8	399.0	399.0	395.4
67.5°	295.2	297.0	298.8	300.6	300.6	300.6	300.6
70°	216.5	221.9	220.0	220.0	220.0	220.0	230.8
72.5°	144.9	152.1	150.3	153.8	153.8	157.4	153.8
75°	98.4	105.5	102.0	107.4	105.5	102.0	110.9
77.5°	66.2	69.8	71.6	73.3	71.6	69.8	71.6
80°	46.5	50.1	48.3	50.1	50.1	50.1	51.9
82.5°	28.6	34.0	32.2	34.0	32.2	34.0	34.0
85°	19.7	21.5	17.9	21.5	19.7	19.7	23.3
87.5°	12.5	10.8	10.8	12.5	10.8	12.5	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)