

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: P251202

Luminaire Tested: **LD8B60D010 ER8B60840 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251202  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B60D010 ER8B60840 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 4000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6316.0 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

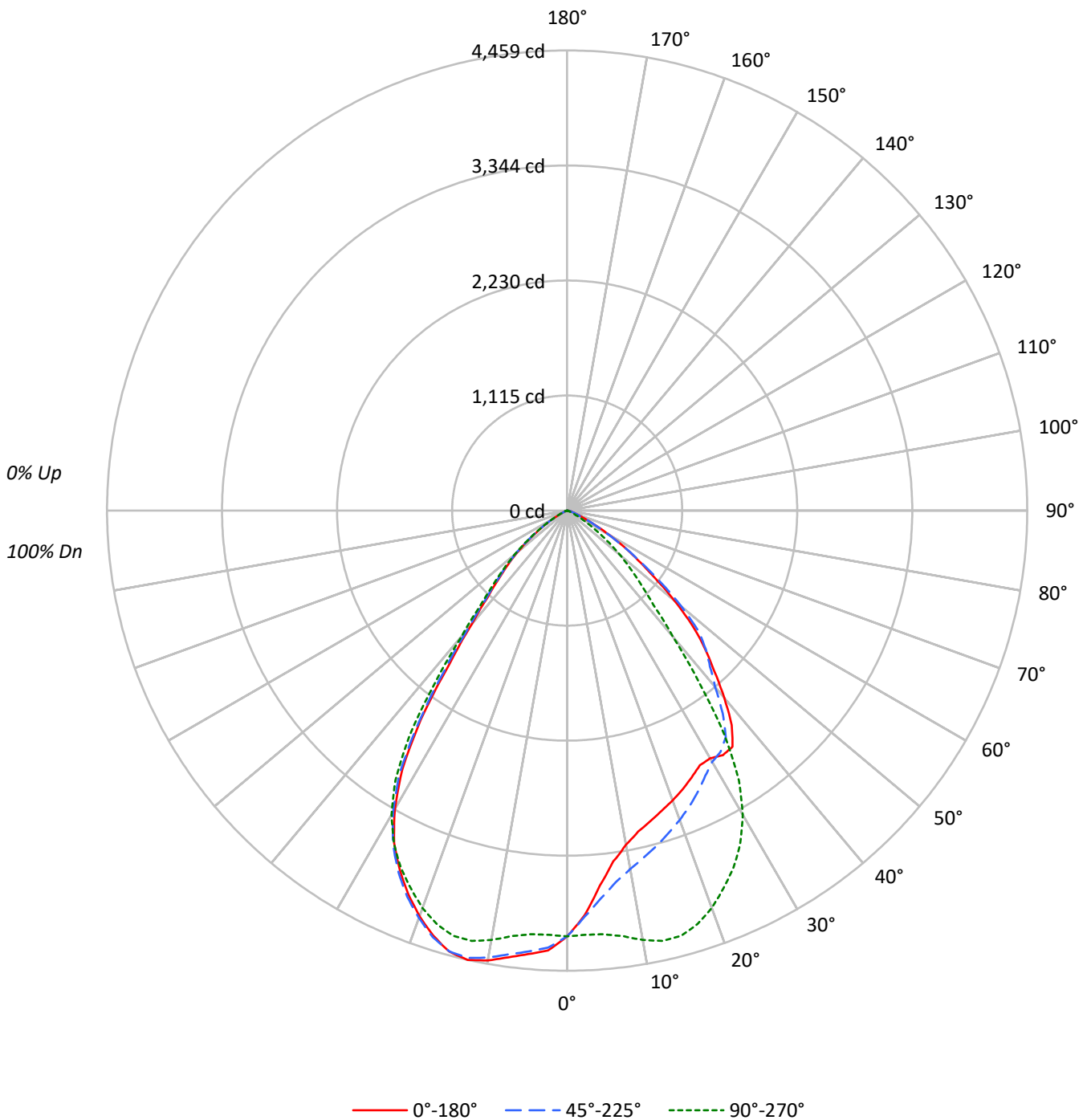
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67					67			
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60					60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39					39			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	127234	127234	127234
5°	112887	127553	133527
10°	102923	132287	138599
15°	99466	136153	141239
20°	98046	134474	137250
25°	97084	129839	130649
30°	98666	121170	118930
35°	105167	100273	93007
40°	95309	64193	58127
45°	82260	43919	40897
50°	64907	32036	30165
55°	45052	19698	18532
60°	28684	9960	8893
65°	14316	3955	3006
70°	7916	1956	1073
75°	5683	1418	512
80°	4617	959	195
85°	4989	778	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.6	6.1
10°-20°	1110.8	17.6
20°-30°	1612.2	25.5
30°-40°	1587.8	25.1
40°-50°	995.3	15.8
50°-60°	480.3	7.6
60°-70°	116.2	1.8
70°-80°	23.5	0.4
80°-90°	5.4	0.1
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°	3107.5	49.2
0°-40°	4695.3	74.3
0°-60°	6170.9	97.7
0°-90°	6316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6316.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4126	4126	4126	4126	4126	
5°	3647	3770	4121	4288	4314	338
15°	3116	3361	4265	4421	4424	881
25°	2853	3002	3816	3868	3840	1320
35°	2794	2680	2664	2512	2471	1690
45°	1886	1899	1007	965	938	1442
55°	838	865	366	362	345	771
65°	196	194	54	47	41	224
75°	48	41	12	5	4	54
85°	14	11	2	0	0	14
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4126.1	4126.1	4126.1	4126.1	4126.1	4126.1	4126.1	4126.1	4126.1	4126.1	4126.1
2.5°	3922.3	3897.4	3850.8	3907.1	3907.1	3875.7	3938.6	3900.6	3931.0	3978.7	3936.4
5°	3646.9	3626.3	3587.3	3646.9	3654.5	3625.3	3701.1	3673.0	3717.4	3775.9	3770.5
7.5°	3429.0	3403.0	3367.2	3429.0	3441.0	3421.4	3494.1	3481.1	3539.6	3615.5	3628.5
10°	3287.0	3259.9	3228.5	3284.8	3293.5	3280.5	3354.2	3346.6	3404.1	3491.9	3526.6
12.5°	3186.2	3163.4	3128.7	3188.4	3198.1	3179.7	3249.1	3245.8	3305.4	3397.6	3441.0
15°	3115.7	3088.6	3057.2	3108.1	3121.1	3100.5	3166.7	3160.2	3220.9	3311.9	3360.7
17.5°	3049.6	3024.7	2992.1	3039.8	3052.8	3031.2	3096.2	3085.4	3137.4	3224.1	3274.0
20°	2987.8	2960.7	2931.4	2980.2	2987.8	2962.9	3027.9	3013.8	3060.4	3140.7	3189.4
22.5°	2923.8	2895.7	2865.3	2913.0	2920.6	2895.7	2955.3	2939.0	2982.4	3055.0	3099.5
25°	2853.4	2827.4	2797.0	2841.4	2848.0	2820.8	2883.7	2863.1	2901.1	2965.0	3001.9
27.5°	2782.9	2758.0	2724.4	2769.9	2773.1	2747.1	2804.6	2776.4	2807.8	2866.4	2897.8
30°	2771.0	2742.8	2708.1	2745.0	2746.0	2712.4	2766.6	2733.0	2750.4	2793.7	2812.2
32.5°	2808.9	2780.7	2745.0	2775.3	2772.1	2735.2	2787.2	2746.0	2751.5	2774.2	2769.9
35°	2793.7	2760.1	2717.9	2750.4	2750.4	2705.9	2758.0	2709.2	2703.8	2707.0	2679.9
37.5°	2621.4	2595.4	2555.2	2586.7	2583.4	2549.8	2589.9	2549.8	2531.4	2523.8	2475.0
40°	2367.7	2336.3	2305.9	2339.5	2342.8	2307.0	2359.0	2313.5	2308.1	2286.4	2228.9
42.5°	2110.8	2099.9	2070.6	2098.8	2114.0	2083.7	2127.0	2105.3	2108.6	2103.2	2049.0
45°	1886.3	1867.9	1846.2	1878.8	1888.5	1873.3	1916.7	1903.7	1916.7	1943.8	1899.4
47.5°	1644.6	1626.2	1602.3	1637.0	1654.3	1626.2	1663.0	1658.7	1678.2	1724.8	1720.5
50°	1353.0	1340.0	1335.6	1340.0	1350.8	1337.8	1363.8	1364.9	1377.9	1441.9	1446.2
52.5°	1071.1	1067.8	1052.7	1066.8	1066.8	1046.2	1072.2	1060.3	1073.3	1116.6	1144.8
55°	838.0	834.8	825.0	838.0	823.9	816.3	823.9	812.0	802.2	835.8	865.1
57.5°	652.6	641.8	629.9	635.3	634.2	617.9	626.6	612.5	604.9	616.9	642.9
60°	465.1	461.8	451.0	456.4	460.7	448.8	457.5	451.0	438.0	447.7	448.8
62.5°	309.0	311.1	304.6	305.7	302.5	300.3	305.7	309.0	305.7	301.4	302.5
65°	196.2	195.1	194.1	195.1	197.3	193.0	196.2	198.4	195.1	195.1	194.1
67.5°	130.1	126.8	123.6	125.8	127.9	124.7	127.9	126.8	127.9	126.8	123.6
70°	87.8	86.7	85.6	86.7	86.7	84.6	86.7	85.6	86.7	85.6	82.4
72.5°	64.0	64.0	62.9	64.0	64.0	61.8	62.9	60.7	61.8	60.7	58.5
75°	47.7	47.7	46.6	47.7	46.6	45.5	46.6	45.5	43.4	43.4	41.2
77.5°	34.7	34.7	34.7	34.7	34.7	33.6	33.6	32.5	31.4	30.4	30.4
80°	26.0	24.9	24.9	24.9	24.9	23.9	24.9	23.9	22.8	21.7	20.6
82.5°	18.4	19.5	18.4	18.4	18.4	17.3	18.4	17.3	17.3	16.3	14.1
85°	14.1	14.1	14.1	14.1	14.1	13.0	13.0	13.0	11.9	11.9	10.8
87.5°	7.6	7.6	7.6	8.7	7.6	7.6	7.6	6.5	6.5	5.4	5.4
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4126.1	4126.1	4126.1	4126.1	4126.1	4126.1	4126.1	4126.1	4126.1	4126.1	4126.1
2.5°	3992.8	3998.2	3986.3	4004.7	4076.2	4018.8	4042.6	4050.2	4104.4	4114.2	4107.7
5°	3841.0	3864.8	3880.0	3921.2	4000.4	3959.2	4001.4	4028.5	4097.9	4120.7	4126.1
7.5°	3721.7	3771.6	3808.5	3875.7	3968.9	3937.5	4001.4	4045.9	4130.5	4159.7	4173.8
10°	3632.8	3708.7	3772.7	3864.8	3970.0	3949.4	4032.9	4095.8	4190.1	4224.8	4242.1
12.5°	3565.6	3657.8	3743.4	3860.5	3974.3	3964.6	4065.4	4137.0	4236.7	4271.4	4292.0
15°	3491.9	3598.2	3697.9	3829.1	3951.6	3949.4	4057.8	4133.7	4235.6	4264.9	4284.4
17.5°	3404.1	3517.9	3627.4	3769.4	3890.9	3893.0	4002.5	4077.3	4177.1	4200.9	4213.9
20°	3315.2	3427.9	3537.4	3683.8	3803.1	3806.3	3913.6	3983.0	4078.4	4097.9	4101.2
22.5°	3220.9	3326.0	3435.5	3580.8	3695.7	3697.9	3804.1	3869.2	3950.5	3960.2	3968.9
25°	3113.6	3216.5	3319.5	3463.7	3573.2	3579.7	3676.2	3733.7	3808.5	3816.1	3819.3
27.5°	3001.9	3086.5	3185.1	3308.7	3419.3	3414.9	3506.0	3571.1	3638.3	3633.9	3632.8
30°	2889.1	2959.6	3020.3	3139.6	3220.9	3224.1	3309.8	3341.2	3411.7	3403.0	3401.9
32.5°	2810.0	2828.4	2844.7	2905.4	2982.4	2955.3	3013.8	3052.8	3101.6	3098.4	3099.5
35°	2664.7	2631.1	2582.3	2591.0	2637.6	2595.4	2626.8	2625.7	2675.6	2663.7	2677.7
37.5°	2416.5	2321.1	2212.7	2150.9	2159.5	2106.4	2095.6	2121.6	2138.9	2105.3	2117.3
40°	2152.0	2011.0	1841.9	1701.0	1693.4	1627.2	1615.3	1589.3	1622.9	1594.7	1603.4
42.5°	1956.8	1770.3	1548.1	1376.8	1340.0	1284.7	1252.1	1247.8	1257.6	1238.1	1232.6
45°	1807.2	1608.8	1354.1	1157.8	1116.6	1057.0	1024.5	1012.6	1013.6	1007.1	1001.7
47.5°	1631.6	1432.1	1174.1	973.5	926.9	870.5	838.0	830.4	834.8	826.1	819.6
50°	1388.7	1209.9	974.6	791.4	750.2	709.0	683.0	675.4	674.3	667.8	663.5
52.5°	1127.5	978.9	775.1	622.3	585.4	545.3	526.9	517.1	518.2	511.7	505.2
55°	872.7	780.6	600.6	470.5	436.9	405.5	388.1	376.2	372.9	366.4	363.2
57.5°	649.4	587.6	449.9	339.3	319.8	289.5	272.1	258.0	255.8	252.6	251.5
60°	455.3	410.9	316.6	241.8	219.0	200.6	183.2	169.1	162.6	161.5	158.3
62.5°	294.9	267.8	208.1	161.5	144.2	131.2	113.8	104.1	99.7	95.4	96.5
65°	183.2	162.6	130.1	104.1	94.3	84.6	71.6	62.9	58.5	54.2	55.3
67.5°	113.8	101.9	82.4	67.2	60.7	53.1	43.4	36.9	33.6	30.4	28.2
70°	77.0	66.1	56.4	47.7	43.4	37.9	31.4	26.0	23.9	21.7	19.5
72.5°	54.2	48.8	41.2	35.8	32.5	28.2	23.9	20.6	18.4	16.3	14.1
75°	39.0	34.7	30.4	26.0	23.9	21.7	18.4	16.3	14.1	11.9	9.8
77.5°	28.2	24.9	21.7	19.5	18.4	15.2	13.0	11.9	10.8	8.7	6.5
80°	19.5	17.3	14.1	13.0	13.0	10.8	9.8	8.7	7.6	5.4	4.3
82.5°	13.0	11.9	10.8	9.8	8.7	7.6	7.6	5.4	4.3	3.3	2.2
85°	9.8	8.7	7.6	6.5	6.5	5.4	4.3	3.3	3.3	2.2	1.1
87.5°	5.4	5.4	4.3	3.3	3.3	2.2	2.2	1.1	1.1	1.1	1.1
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4126.1	4126.1	4126.1	4126.1	4126.1	4126.1	4126.1	4126.1	4126.1	4126.1	4126.1
2.5°	4163.0	4166.2	4184.7	4170.6	4206.3	4232.4	4219.3	4248.6	4238.9	4236.7	4270.3
5°	4191.2	4198.7	4223.7	4210.7	4249.7	4277.9	4264.9	4297.4	4287.6	4285.5	4320.2
7.5°	4245.4	4253.0	4274.6	4263.8	4305.0	4329.9	4313.7	4349.4	4336.4	4335.3	4369.0
10°	4313.7	4324.5	4342.9	4332.1	4370.0	4391.7	4375.5	4410.2	4398.2	4392.8	4429.7
12.5°	4364.6	4372.2	4390.6	4382.0	4418.8	4435.1	4421.0	4454.6	4439.4	4435.1	4467.6
15°	4352.7	4360.3	4375.5	4367.9	4402.6	4417.7	4399.3	4436.2	4421.0	4412.3	4441.6
17.5°	4276.8	4281.1	4292.0	4284.4	4321.3	4331.0	4310.4	4347.3	4333.2	4318.0	4346.2
20°	4165.1	4163.0	4169.5	4166.2	4196.6	4202.0	4189.0	4216.1	4199.8	4191.2	4207.4
22.5°	4026.4	4024.2	4028.5	4019.9	4050.2	4053.5	4034.0	4066.5	4050.2	4034.0	4061.1
25°	3872.4	3860.5	3858.3	3861.6	3882.2	3885.4	3864.8	3888.7	3868.1	3855.1	3881.1
27.5°	3682.7	3667.5	3664.3	3667.5	3688.1	3673.0	3655.6	3673.0	3652.4	3640.4	3656.7
30°	3448.5	3426.9	3417.1	3410.6	3432.3	3426.9	3386.8	3406.3	3373.7	3356.4	3368.3
32.5°	3133.1	3121.1	3095.1	3080.0	3100.5	3059.4	3034.4	3034.4	3021.4	2992.1	2998.6
35°	2695.1	2676.7	2652.8	2639.8	2643.1	2587.8	2546.6	2555.2	2511.9	2504.3	2507.5
37.5°	2141.1	2110.8	2102.1	2075.0	2081.5	2032.7	1976.3	1977.4	1954.6	1930.8	1923.2
40°	1608.8	1603.4	1594.7	1572.0	1580.6	1527.5	1505.8	1506.9	1491.7	1474.4	1483.1
42.5°	1243.5	1226.1	1220.7	1213.1	1215.3	1206.6	1178.4	1181.7	1168.7	1164.3	1160.0
45°	1010.4	992.0	978.9	985.5	985.5	975.7	964.9	971.4	964.9	956.2	960.5
47.5°	832.6	815.2	808.7	807.7	815.2	808.7	797.9	800.1	799.0	795.7	793.6
50°	664.6	660.2	654.8	651.5	654.8	652.6	642.9	648.3	651.5	640.7	644.0
52.5°	506.3	506.3	505.2	497.6	504.1	497.6	496.5	498.7	495.4	491.1	490.0
55°	370.8	367.5	362.1	361.0	363.2	361.0	358.8	359.9	362.1	351.3	351.3
57.5°	253.7	251.5	248.3	248.3	252.6	247.2	243.9	248.3	243.9	239.6	239.6
60°	162.6	161.5	158.3	158.3	158.3	157.2	153.9	155.0	157.2	150.7	151.8
62.5°	97.6	94.3	93.2	92.1	93.2	92.1	92.1	91.1	90.0	90.0	86.7
65°	53.1	51.0	48.8	49.9	49.9	48.8	48.8	48.8	46.6	45.5	44.4
67.5°	27.1	24.9	24.9	23.9	23.9	23.9	23.9	22.8	22.8	22.8	21.7
70°	17.3	16.3	15.2	15.2	15.2	14.1	14.1	14.1	14.1	14.1	13.0
72.5°	11.9	10.8	9.8	9.8	9.8	8.7	8.7	8.7	8.7	7.6	7.6
75°	8.7	7.6	6.5	6.5	6.5	5.4	5.4	5.4	5.4	5.4	5.4
77.5°	5.4	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	3.3	2.2
80°	3.3	3.3	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1
82.5°	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0
87.5°	1.1	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: P251202

CATALOG NUMBER: LD8B60D010 ER8B60840 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4126.1	4126.1	4126.1	4126.1	4126.1	4126.1	4126.1	4126.1
2.5°	4258.4	4249.7	4255.1	4295.2	4277.9	4272.5	4226.9	4267.0
5°	4309.3	4302.8	4302.8	4348.4	4327.8	4323.4	4279.0	4313.7
7.5°	4357.0	4350.5	4351.6	4398.2	4382.0	4375.5	4331.0	4365.7
10°	4418.8	4414.5	4415.6	4460.0	4442.7	4436.2	4390.6	4426.4
12.5°	4455.7	4449.2	4449.2	4496.9	4477.4	4467.6	4424.2	4458.9
15°	4427.5	4417.7	4417.7	4465.4	4443.8	4429.7	4391.7	4424.2
17.5°	4331.0	4321.3	4321.3	4362.5	4346.2	4325.6	4286.6	4316.9
20°	4196.6	4184.7	4181.4	4229.1	4206.3	4187.9	4153.2	4182.5
22.5°	4044.8	4039.4	4029.6	4077.3	4056.7	4037.2	4000.4	4023.1
25°	3862.7	3854.0	3844.2	3890.9	3870.3	3850.8	3821.5	3839.9
27.5°	3636.1	3637.2	3631.8	3668.6	3648.0	3637.2	3601.4	3631.8
30°	3361.8	3349.9	3345.6	3388.9	3369.4	3355.3	3310.9	3340.1
32.5°	3004.1	2986.7	2964.0	3012.7	2979.1	2967.2	2929.3	2971.5
35°	2483.7	2478.3	2457.7	2498.9	2480.4	2458.8	2434.9	2470.7
37.5°	1920.0	1924.3	1922.1	1933.0	1922.1	1908.0	1882.0	1869.0
40°	1465.7	1454.9	1446.2	1465.7	1442.9	1442.9	1427.8	1444.0
42.5°	1149.2	1144.8	1155.7	1160.0	1147.0	1144.8	1142.6	1141.6
45°	948.6	948.6	950.8	955.1	950.8	948.6	942.1	937.8
47.5°	781.6	786.0	781.6	795.7	788.1	786.0	773.0	778.4
50°	633.1	627.7	633.1	637.5	638.5	632.0	625.5	628.8
52.5°	491.1	482.4	480.3	486.8	482.4	482.4	478.1	477.0
55°	345.8	349.1	343.7	349.1	346.9	343.7	340.4	344.7
57.5°	234.2	235.3	233.1	236.3	230.9	232.0	230.9	229.8
60°	151.8	147.4	147.4	150.7	145.3	145.3	144.2	144.2
62.5°	86.7	85.6	85.6	84.6	83.5	83.5	83.5	81.3
65°	44.4	43.4	42.3	42.3	42.3	42.3	41.2	41.2
67.5°	21.7	20.6	20.6	21.7	20.6	20.6	20.6	20.6
70°	13.0	13.0	11.9	13.0	11.9	11.9	11.9	11.9
72.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
75°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
77.5°	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)