

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: P249056

Luminaire Tested: **LD8B70D010 ER8B70950 8LBSW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249056  
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: LD8B70D010 ER8B70950 8LBSW0MW  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6870.0 lumens  
Efficiency: N/A  
Efficacy: 90.5 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

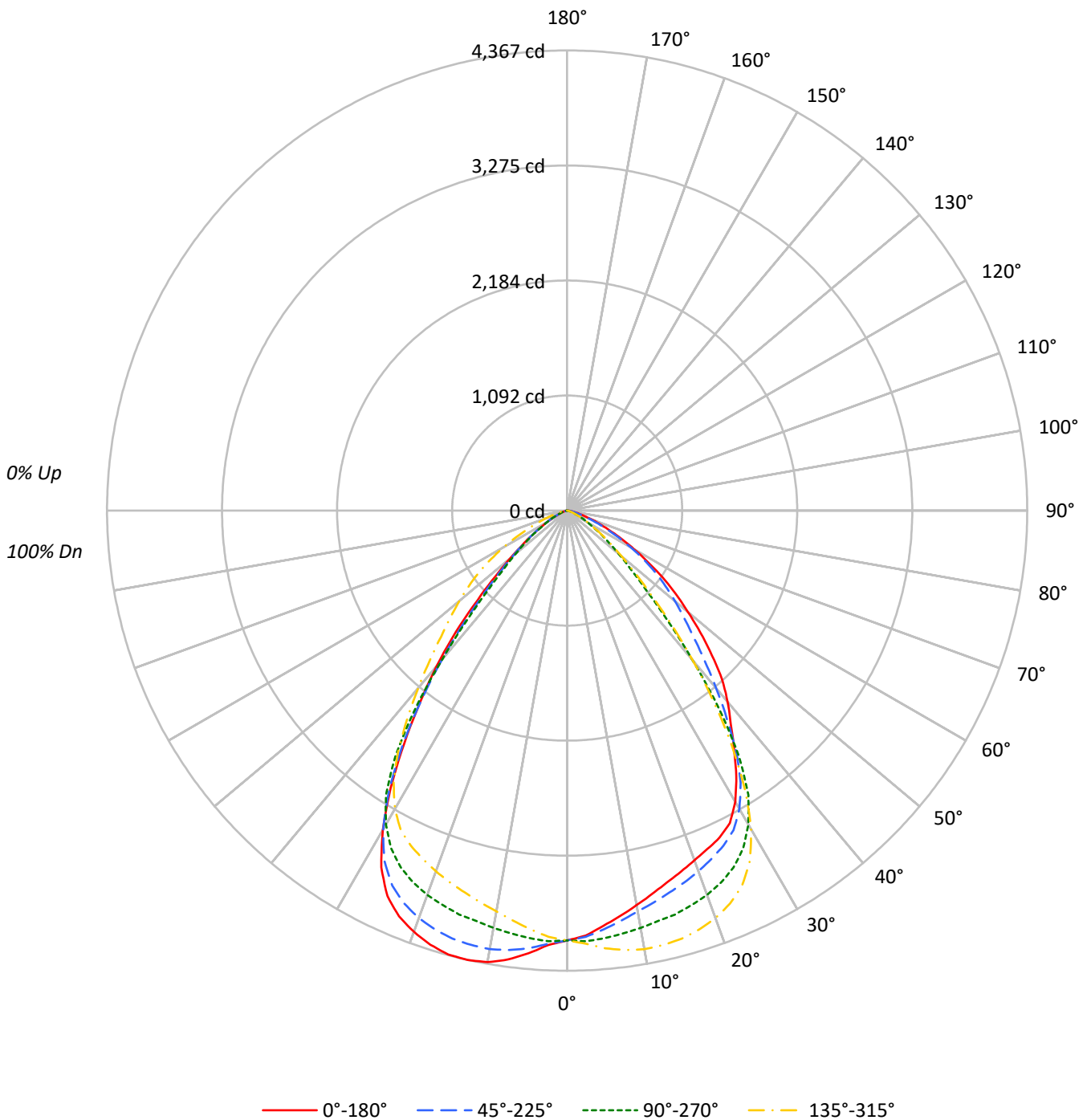
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	125766	125766	125766	125766
5°	122427	126061	130561	126061
10°	119039	125896	136248	125896
15°	116660	126643	139231	126643
20°	115868	127369	139590	127369
25°	116475	127111	137345	127111
30°	113596	122459	124659	122459
35°	103905	106827	101357	106827
40°	95394	74309	77602	74309
45°	84763	45332	52453	45332
50°	71743	30285	33629	30285
55°	59423	20666	21838	20666
60°	45323	13753	13876	13753
65°	32112	8573	7844	8573
70°	23162	5743	5211	5743
75°	14702	2848	2371	2848
80°	10264	2131	1758	2131
85°	9164	0	708	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	388.2	5.7
10°-20°	1124.1	16.4
20°-30°	1702.2	24.8
30°-40°	1706.0	24.8
40°-50°	1071.3	15.6
50°-60°	570.9	8.3
60°-70°	234.8	3.4
70°-80°	62.0	0.9
80°-90°	10.5	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°	3214.5	46.8
0°-40°	4920.6	71.6
0°-60°	6562.7	95.5
0°-90°	6870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6870.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4078	4078	4078	4078	4078	
5°	3955	4072	4218	4072	3955	373
15°	3654	3967	4361	3967	3654	1034
25°	3423	3736	4037	3736	3423	1570
35°	2760	2838	2692	2838	2760	1729
45°	1944	1040	1203	1040	1944	1495
55°	1105	384	406	384	1105	985
65°	440	118	108	118	440	457
75°	123	24	20	24	123	140
85°	26	0	2	0	26	28
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°	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5
2.5°	4036.7	4032.7	4030.7	4034.7	4036.7	4044.6	4042.7	4046.6	4046.6	4048.7	4052.6
5°	3955.1	3953.0	3955.1	3955.1	3963.0	3971.0	3969.0	3975.0	3978.9	3988.9	3992.8
7.5°	3879.4	3879.4	3877.3	3885.3	3889.3	3901.3	3899.2	3909.2	3915.2	3925.1	3939.1
10°	3801.7	3801.7	3803.7	3809.6	3811.7	3829.6	3829.6	3843.5	3851.4	3861.4	3879.4
12.5°	3726.0	3726.0	3738.0	3734.0	3741.9	3755.9	3761.9	3775.8	3787.8	3807.7	3825.6
15°	3654.3	3654.3	3658.3	3668.2	3674.2	3692.2	3702.1	3718.1	3732.0	3751.9	3777.8
17.5°	3592.6	3590.6	3592.6	3604.6	3616.5	3632.4	3640.4	3660.3	3674.2	3700.1	3724.1
20°	3530.9	3534.9	3534.9	3544.8	3552.7	3572.7	3580.6	3602.6	3618.5	3642.3	3670.3
22.5°	3477.1	3475.1	3475.1	3489.1	3495.0	3512.9	3520.9	3540.8	3558.7	3578.6	3604.6
25°	3423.3	3419.3	3427.3	3429.3	3433.2	3453.2	3459.1	3473.1	3491.0	3509.0	3534.9
27.5°	3343.6	3339.7	3341.7	3349.6	3355.6	3371.5	3375.5	3389.5	3403.4	3419.3	3441.3
30°	3190.3	3186.3	3184.4	3198.3	3204.3	3216.2	3222.2	3246.1	3250.0	3268.0	3283.9
32.5°	2987.2	2985.2	2989.2	3001.1	3007.1	3023.1	3031.0	3044.9	3054.9	3064.9	3080.8
35°	2760.2	2756.2	2760.2	2772.1	2772.1	2786.1	2792.1	2798.0	2796.0	2798.0	2794.0
37.5°	2549.1	2547.1	2549.1	2555.0	2549.1	2555.0	2549.1	2537.1	2515.3	2491.3	2467.4
40°	2369.8	2371.8	2359.9	2367.9	2345.9	2342.0	2320.1	2290.2	2246.4	2198.6	2130.9
42.5°	2178.7	2172.7	2164.7	2168.7	2150.8	2136.8	2101.0	2063.2	2007.4	1927.8	1846.0
45°	1943.7	1941.7	1937.7	1935.7	1923.8	1909.8	1879.9	1836.1	1774.4	1692.8	1595.1
47.5°	1714.6	1708.7	1708.7	1710.6	1696.7	1694.7	1670.8	1633.0	1579.2	1499.6	1398.0
50°	1495.5	1493.6	1497.6	1505.5	1495.5	1491.6	1475.7	1449.8	1402.0	1334.3	1238.6
52.5°	1298.4	1296.4	1300.5	1310.4	1306.4	1310.4	1294.5	1274.6	1242.7	1176.9	1093.3
55°	1105.3	1105.3	1105.3	1117.2	1117.2	1117.2	1109.2	1097.3	1067.4	1019.6	942.0
57.5°	904.1	906.1	918.1	920.0	918.1	922.1	920.0	908.1	888.2	854.4	794.6
60°	734.9	734.9	740.8	746.8	744.8	746.8	746.8	740.8	720.9	693.1	645.3
62.5°	581.5	587.5	583.5	587.5	595.4	587.5	583.5	579.5	565.6	547.6	507.8
65°	440.1	444.1	444.1	446.1	442.1	444.1	436.2	430.2	422.2	402.3	376.4
67.5°	334.6	334.6	334.6	334.6	332.6	330.6	328.6	322.6	308.7	300.7	272.8
70°	256.9	244.9	244.9	244.9	244.9	247.0	241.0	233.0	229.0	215.1	195.2
72.5°	171.2	175.3	171.2	171.2	167.3	169.3	161.3	157.3	153.4	145.4	133.4
75°	123.4	113.5	117.5	119.5	113.5	117.5	109.5	101.6	101.6	95.6	89.6
77.5°	79.7	77.7	79.7	81.6	79.7	77.7	73.7	69.7	69.7	67.7	61.7
80°	57.8	55.7	55.7	55.7	53.8	55.7	51.8	51.8	47.8	45.8	41.8
82.5°	37.9	37.9	35.8	37.9	35.8	37.9	31.9	31.9	31.9	29.8	25.9
85°	25.9	21.9	21.9	23.9	19.9	23.9	21.9	19.9	18.0	18.0	15.9
87.5°	12.0	13.9	12.0	13.9	12.0	12.0	13.9	12.0	12.0	8.0	8.0
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°	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5
2.5°	4058.6	4060.6	4060.6	4068.6	4072.5	4074.5	4074.5	4090.5	4084.5	4088.5	4092.4
5°	4000.9	4012.8	4016.8	4016.8	4038.7	4046.6	4054.6	4072.5	4074.5	4086.5	4100.4
7.5°	3945.1	3959.0	3967.0	3984.9	3998.8	4012.8	4036.7	4048.7	4060.6	4076.5	4094.4
10°	3891.3	3907.3	3923.2	3937.1	3959.0	3976.9	3992.8	4020.7	4034.7	4056.6	4080.5
12.5°	3839.6	3861.4	3875.4	3899.2	3923.2	3939.1	3963.0	3988.9	4010.8	4032.7	4060.6
15°	3793.7	3819.6	3835.5	3861.4	3887.3	3909.2	3935.1	3967.0	3982.9	4008.8	4034.7
17.5°	3743.9	3771.9	3791.8	3815.6	3847.5	3871.4	3893.3	3925.1	3945.1	3972.9	4002.8
20°	3692.2	3720.0	3743.9	3767.8	3799.7	3823.6	3849.5	3881.4	3903.2	3931.1	3955.1
22.5°	3630.5	3656.4	3682.2	3710.0	3741.9	3761.9	3791.8	3819.6	3843.5	3869.4	3893.3
25°	3550.8	3582.7	3602.6	3628.4	3654.3	3676.2	3708.1	3735.9	3755.9	3779.8	3801.7
27.5°	3457.2	3481.1	3497.0	3518.9	3544.8	3564.7	3588.6	3616.5	3636.4	3658.3	3674.2
30°	3297.8	3319.8	3333.7	3349.6	3375.5	3393.5	3413.4	3439.2	3453.2	3469.1	3483.1
32.5°	3088.7	3106.7	3114.6	3126.6	3144.5	3162.4	3178.4	3200.3	3206.3	3216.2	3216.2
35°	2786.1	2790.0	2788.0	2792.1	2800.0	2809.9	2823.9	2837.8	2845.8	2845.8	2839.9
37.5°	2431.6	2407.7	2381.8	2361.9	2355.9	2351.9	2359.9	2365.8	2373.9	2377.8	2367.9
40°	2063.2	2009.4	1951.6	1899.8	1864.0	1848.1	1842.1	1846.0	1846.0	1860.0	1860.0
42.5°	1746.5	1662.8	1577.3	1499.6	1447.8	1408.0	1390.0	1390.0	1392.0	1402.0	1408.0
45°	1483.7	1378.1	1278.5	1192.9	1121.2	1069.4	1045.5	1039.5	1037.6	1041.5	1055.4
47.5°	1282.5	1173.0	1069.4	963.9	888.2	836.4	814.5	806.5	798.6	806.5	808.6
50°	1125.2	1011.7	902.2	796.6	716.9	671.1	643.2	631.3	629.3	629.3	633.3
52.5°	981.8	876.3	766.7	659.2	575.5	531.7	505.8	499.9	491.9	499.9	499.9
55°	846.3	740.8	633.3	531.7	462.0	416.2	392.3	384.4	380.3	386.3	386.3
57.5°	699.0	609.4	509.9	418.2	348.5	316.7	298.7	288.8	286.7	290.7	286.7
60°	573.5	497.9	412.2	328.6	274.8	241.0	227.1	223.0	219.0	223.0	223.0
62.5°	454.0	390.3	320.6	256.9	211.1	187.2	171.2	171.2	169.3	169.3	171.2
65°	336.6	286.7	237.0	183.2	147.4	129.4	117.5	117.5	115.5	117.5	115.5
67.5°	244.9	211.1	171.2	133.4	105.6	95.6	87.6	81.6	85.7	81.6	79.7
70°	179.3	151.3	123.4	101.6	81.6	71.7	65.7	63.7	59.8	59.8	59.8
72.5°	119.5	101.6	83.6	65.7	53.8	43.8	41.8	37.9	33.9	35.8	39.8
75°	79.7	67.7	59.8	47.8	35.8	35.8	23.9	23.9	19.9	23.9	18.0
77.5°	55.7	45.8	35.8	29.8	23.9	21.9	15.9	15.9	13.9	13.9	13.9
80°	39.8	33.9	25.9	21.9	15.9	15.9	13.9	12.0	9.9	9.9	12.0
82.5°	23.9	18.0	18.0	15.9	9.9	8.0	6.0	8.0	4.0	4.0	4.0
85°	13.9	12.0	9.9	6.0	4.0	4.0	2.0	0.0	2.0	2.0	0.0
87.5°	8.0	4.0	4.0	2.0	0.0	2.0	2.0	0.0	0.0	0.0	4.0
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°	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5
2.5°	4102.4	4100.4	4104.4	4104.4	4116.4	4114.3	4120.3	4120.3	4116.4	4118.3	4126.3
5°	4116.4	4122.4	4134.2	4144.2	4162.1	4170.1	4180.1	4190.1	4192.0	4198.0	4204.0
7.5°	4116.4	4136.3	4150.2	4168.1	4192.0	4206.0	4227.9	4245.8	4253.8	4263.7	4275.6
10°	4108.3	4128.3	4154.2	4174.1	4204.0	4225.9	4247.8	4275.6	4287.6	4303.5	4319.5
12.5°	4092.4	4114.3	4142.2	4168.1	4201.9	4221.9	4249.7	4275.6	4293.6	4315.5	4333.4
15°	4068.6	4094.4	4120.3	4146.2	4182.0	4206.0	4231.9	4261.7	4279.7	4303.5	4319.5
17.5°	4030.7	4058.6	4082.5	4106.4	4140.2	4168.1	4192.0	4219.9	4237.9	4257.8	4279.7
20°	3984.9	4010.8	4036.7	4056.6	4090.5	4114.3	4140.2	4166.1	4180.1	4184.1	4217.9
22.5°	3927.2	3945.1	3965.0	3996.9	4016.8	4038.7	4062.6	4086.5	4100.4	4122.4	4134.2
25°	3831.5	3849.5	3871.4	3885.3	3909.2	3927.2	3951.0	3976.9	3984.9	4000.9	4012.8
27.5°	3698.2	3708.1	3718.1	3730.0	3743.9	3753.9	3767.8	3779.8	3787.8	3795.7	3803.7
30°	3487.0	3487.0	3487.0	3479.1	3485.0	3491.0	3493.0	3491.0	3491.0	3489.1	3489.1
32.5°	3208.2	3192.3	3174.4	3158.5	3152.5	3144.5	3140.5	3134.5	3124.6	3118.6	3120.6
35°	2831.8	2796.0	2774.1	2754.2	2738.3	2726.3	2720.3	2714.4	2712.4	2704.4	2696.4
37.5°	2361.9	2336.0	2320.1	2308.1	2294.2	2282.2	2284.2	2286.2	2292.1	2288.2	2290.2
40°	1864.0	1858.0	1864.0	1850.1	1846.0	1850.1	1860.0	1874.0	1882.0	1889.9	1903.8
42.5°	1417.9	1427.8	1441.9	1441.9	1447.8	1455.8	1467.7	1489.6	1501.5	1515.5	1531.4
45°	1067.4	1079.4	1097.3	1103.2	1107.3	1117.2	1131.2	1149.1	1157.0	1169.0	1182.9
47.5°	822.5	830.4	840.4	850.4	860.3	864.3	878.2	878.2	888.2	896.2	900.1
50°	641.3	649.2	657.2	663.1	667.2	673.1	677.1	683.1	685.0	689.0	691.0
52.5°	501.8	511.8	511.8	515.8	521.7	527.7	525.8	527.7	529.7	529.7	535.7
55°	392.3	392.3	398.3	398.3	402.3	400.3	402.3	402.3	402.3	402.3	404.3
57.5°	292.7	294.8	300.7	296.7	294.8	298.7	294.8	298.7	296.7	300.7	294.8
60°	225.0	225.0	227.1	227.1	229.0	229.0	229.0	227.1	227.1	225.0	225.0
62.5°	169.3	171.2	173.3	171.2	171.2	171.2	169.3	169.3	167.3	165.3	165.3
65°	113.5	111.6	115.5	111.6	113.5	113.5	111.6	113.5	107.5	109.5	107.5
67.5°	81.6	79.7	77.7	79.7	77.7	75.7	75.7	77.7	79.7	73.7	73.7
70°	53.8	55.7	53.8	55.7	57.8	57.8	55.7	53.8	55.7	51.8	53.8
72.5°	33.9	33.9	33.9	33.9	33.9	35.8	35.8	35.8	31.9	31.9	29.8
75°	15.9	21.9	18.0	15.9	21.9	21.9	19.9	19.9	18.0	18.0	18.0
77.5°	15.9	12.0	12.0	12.0	12.0	12.0	12.0	12.0	9.9	12.0	9.9
80°	8.0	8.0	8.0	6.0	8.0	8.0	9.9	8.0	8.0	6.0	9.9
82.5°	4.0	4.0	4.0	0.0	2.0	4.0	4.0	2.0	4.0	4.0	2.0
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: P249056

CATALOG NUMBER: LD8B70D010 ER8B70950 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5
2.5°	4124.3	4122.4	4124.3	4126.3	4124.3	4122.4	4124.3	4126.3	4118.3	4116.4	4120.3
5°	4211.9	4211.9	4215.9	4217.9	4215.9	4211.9	4211.9	4204.0	4198.0	4192.0	4190.1
7.5°	4287.6	4291.6	4295.6	4297.5	4295.6	4291.6	4287.6	4275.6	4263.7	4253.8	4245.8
10°	4333.4	4339.4	4347.4	4351.3	4347.4	4339.4	4333.4	4319.5	4303.5	4287.6	4275.6
12.5°	4353.3	4359.3	4369.2	4367.3	4369.2	4359.3	4353.3	4333.4	4315.5	4293.6	4275.6
15°	4339.4	4347.4	4357.3	4361.3	4357.3	4347.4	4339.4	4319.5	4303.5	4279.7	4261.7
17.5°	4295.6	4307.5	4313.5	4319.5	4313.5	4307.5	4295.6	4279.7	4257.8	4237.9	4219.9
20°	4235.8	4243.8	4251.8	4253.8	4251.8	4243.8	4235.8	4217.9	4184.1	4180.1	4166.1
22.5°	4150.2	4156.2	4174.1	4168.1	4174.1	4156.2	4150.2	4134.2	4122.4	4100.4	4086.5
25°	4026.7	4032.7	4034.7	4036.7	4034.7	4032.7	4026.7	4012.8	4000.9	3984.9	3976.9
27.5°	3813.7	3813.7	3817.6	3819.6	3817.6	3813.7	3813.7	3803.7	3795.7	3787.8	3779.8
30°	3491.0	3491.0	3491.0	3501.0	3491.0	3491.0	3491.0	3489.1	3489.1	3491.0	3491.0
32.5°	3118.6	3114.6	3110.7	3114.6	3110.7	3114.6	3118.6	3120.6	3118.6	3124.6	3134.5
35°	2696.4	2694.4	2700.4	2692.5	2700.4	2694.4	2696.4	2696.4	2704.4	2712.4	2714.4
37.5°	2292.1	2288.2	2296.1	2288.2	2296.1	2288.2	2292.1	2290.2	2288.2	2292.1	2286.2
40°	1907.9	1911.8	1911.8	1927.8	1911.8	1911.8	1907.9	1903.8	1889.9	1882.0	1874.0
42.5°	1539.4	1551.4	1547.3	1559.3	1547.3	1551.4	1539.4	1531.4	1515.5	1501.5	1489.6
45°	1190.9	1198.9	1198.9	1202.8	1198.9	1198.9	1190.9	1182.9	1169.0	1157.0	1149.1
47.5°	914.0	914.0	914.0	916.1	914.0	914.0	914.0	900.1	896.2	888.2	878.2
50°	695.0	697.0	699.0	701.0	699.0	697.0	695.0	691.0	689.0	685.0	683.1
52.5°	533.7	535.7	531.7	535.7	531.7	535.7	533.7	535.7	529.7	529.7	527.7
55°	404.3	402.3	404.3	406.2	404.3	402.3	404.3	404.3	402.3	402.3	402.3
57.5°	296.7	292.7	292.7	292.7	292.7	292.7	296.7	294.8	300.7	296.7	298.7
60°	221.1	223.0	223.0	225.0	223.0	223.0	221.1	225.0	225.0	227.1	227.1
62.5°	163.3	169.3	165.3	169.3	165.3	169.3	163.3	165.3	165.3	167.3	169.3
65°	105.6	105.6	105.6	107.5	105.6	105.6	105.6	107.5	109.5	107.5	113.5
67.5°	71.7	73.7	77.7	75.7	77.7	73.7	71.7	73.7	73.7	79.7	77.7
70°	57.8	51.8	51.8	57.8	51.8	51.8	57.8	53.8	51.8	55.7	53.8
72.5°	33.9	29.8	33.9	33.9	33.9	29.8	33.9	29.8	31.9	31.9	35.8
75°	18.0	15.9	13.9	19.9	13.9	15.9	18.0	18.0	18.0	18.0	19.9
77.5°	12.0	9.9	13.9	13.9	13.9	9.9	12.0	9.9	12.0	9.9	12.0
80°	6.0	8.0	6.0	9.9	6.0	8.0	6.0	9.9	6.0	8.0	8.0
82.5°	2.0	4.0	4.0	4.0	4.0	4.0	2.0	2.0	4.0	4.0	2.0
85°	0.0	4.0	2.0	2.0	2.0	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.0	0.0	2.0	0.0	0.0	2.0	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: P249056

CATALOG NUMBER: LD8B70D010 ER8B70950 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5
2.5°	4120.3	4114.3	4116.4	4104.4	4104.4	4100.4	4102.4	4092.4	4088.5	4084.5	4090.5
5°	4180.1	4170.1	4162.1	4144.2	4134.2	4122.4	4116.4	4100.4	4086.5	4074.5	4072.5
7.5°	4227.9	4206.0	4192.0	4168.1	4150.2	4136.3	4116.4	4094.4	4076.5	4060.6	4048.7
10°	4247.8	4225.9	4204.0	4174.1	4154.2	4128.3	4108.3	4080.5	4056.6	4034.7	4020.7
12.5°	4249.7	4221.9	4201.9	4168.1	4142.2	4114.3	4092.4	4060.6	4032.7	4010.8	3988.9
15°	4231.9	4206.0	4182.0	4146.2	4120.3	4094.4	4068.6	4034.7	4008.8	3982.9	3967.0
17.5°	4192.0	4168.1	4140.2	4106.4	4082.5	4058.6	4030.7	4002.8	3972.9	3945.1	3925.1
20°	4140.2	4114.3	4090.5	4056.6	4036.7	4010.8	3984.9	3955.1	3931.1	3903.2	3881.4
22.5°	4062.6	4038.7	4016.8	3996.9	3965.0	3945.1	3927.2	3893.3	3869.4	3843.5	3819.6
25°	3951.0	3927.2	3909.2	3885.3	3871.4	3849.5	3831.5	3801.7	3779.8	3755.9	3735.9
27.5°	3767.8	3753.9	3743.9	3730.0	3718.1	3708.1	3698.2	3674.2	3658.3	3636.4	3616.5
30°	3493.0	3491.0	3485.0	3479.1	3487.0	3487.0	3487.0	3483.1	3469.1	3453.2	3439.2
32.5°	3140.5	3144.5	3152.5	3158.5	3174.4	3192.3	3208.2	3216.2	3216.2	3206.3	3200.3
35°	2720.3	2726.3	2738.3	2754.2	2774.1	2796.0	2831.8	2839.9	2845.8	2845.8	2837.8
37.5°	2284.2	2282.2	2294.2	2308.1	2320.1	2336.0	2361.9	2367.9	2377.8	2373.9	2365.8
40°	1860.0	1850.1	1846.0	1850.1	1864.0	1858.0	1864.0	1860.0	1860.0	1846.0	1846.0
42.5°	1467.7	1455.8	1447.8	1441.9	1441.9	1427.8	1417.9	1408.0	1402.0	1392.0	1390.0
45°	1131.2	1117.2	1107.3	1103.2	1097.3	1079.4	1067.4	1055.4	1041.5	1037.6	1039.5
47.5°	878.2	864.3	860.3	850.4	840.4	830.4	822.5	808.6	806.5	798.6	806.5
50°	677.1	673.1	667.2	663.1	657.2	649.2	641.3	633.3	629.3	629.3	631.3
52.5°	525.8	527.7	521.7	515.8	511.8	511.8	501.8	499.9	499.9	491.9	499.9
55°	402.3	400.3	402.3	398.3	398.3	392.3	392.3	386.3	386.3	380.3	384.4
57.5°	294.8	298.7	294.8	296.7	300.7	294.8	292.7	286.7	290.7	286.7	288.8
60°	229.0	229.0	229.0	227.1	227.1	225.0	225.0	223.0	223.0	219.0	223.0
62.5°	169.3	171.2	171.2	171.2	173.3	171.2	169.3	171.2	169.3	169.3	171.2
65°	111.6	113.5	113.5	111.6	115.5	111.6	113.5	115.5	117.5	115.5	117.5
67.5°	75.7	75.7	77.7	79.7	77.7	79.7	81.6	79.7	81.6	85.7	81.6
70°	55.7	57.8	57.8	55.7	53.8	55.7	53.8	59.8	59.8	59.8	63.7
72.5°	35.8	35.8	33.9	33.9	33.9	33.9	33.9	39.8	35.8	33.9	37.9
75°	19.9	21.9	21.9	15.9	18.0	21.9	15.9	18.0	23.9	19.9	23.9
77.5°	12.0	12.0	12.0	12.0	12.0	12.0	15.9	13.9	13.9	13.9	15.9
80°	9.9	8.0	8.0	6.0	8.0	8.0	8.0	12.0	9.9	9.9	12.0
82.5°	4.0	4.0	2.0	0.0	4.0	4.0	4.0	4.0	4.0	4.0	8.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	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: P249056

CATALOG NUMBER: LD8B70D010 ER8B70950 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5
2.5°	4074.5	4074.5	4072.5	4068.6	4060.6	4060.6	4058.6	4052.6	4048.7	4046.6	4046.6
5°	4054.6	4046.6	4038.7	4016.8	4016.8	4012.8	4000.9	3992.8	3988.9	3978.9	3975.0
7.5°	4036.7	4012.8	3998.8	3984.9	3967.0	3959.0	3945.1	3939.1	3925.1	3915.2	3909.2
10°	3992.8	3976.9	3959.0	3937.1	3923.2	3907.3	3891.3	3879.4	3861.4	3851.4	3843.5
12.5°	3963.0	3939.1	3923.2	3899.2	3875.4	3861.4	3839.6	3825.6	3807.7	3787.8	3775.8
15°	3935.1	3909.2	3887.3	3861.4	3835.5	3819.6	3793.7	3777.8	3751.9	3732.0	3718.1
17.5°	3893.3	3871.4	3847.5	3815.6	3791.8	3771.9	3743.9	3724.1	3700.1	3674.2	3660.3
20°	3849.5	3823.6	3799.7	3767.8	3743.9	3720.0	3692.2	3670.3	3642.3	3618.5	3602.6
22.5°	3791.8	3761.9	3741.9	3710.0	3682.2	3656.4	3630.5	3604.6	3578.6	3558.7	3540.8
25°	3708.1	3676.2	3654.3	3628.4	3602.6	3582.7	3550.8	3534.9	3509.0	3491.0	3473.1
27.5°	3588.6	3564.7	3544.8	3518.9	3497.0	3481.1	3457.2	3441.3	3419.3	3403.4	3389.5
30°	3413.4	3393.5	3375.5	3349.6	3333.7	3319.8	3297.8	3283.9	3268.0	3250.0	3246.1
32.5°	3178.4	3162.4	3144.5	3126.6	3114.6	3106.7	3088.7	3080.8	3064.9	3054.9	3044.9
35°	2823.9	2809.9	2800.0	2792.1	2788.0	2790.0	2786.1	2794.0	2798.0	2796.0	2798.0
37.5°	2359.9	2351.9	2355.9	2361.9	2381.8	2407.7	2431.6	2467.4	2491.3	2515.3	2537.1
40°	1842.1	1848.1	1864.0	1899.8	1951.6	2009.4	2063.2	2130.9	2198.6	2246.4	2290.2
42.5°	1390.0	1408.0	1447.8	1499.6	1577.3	1662.8	1746.5	1846.0	1927.8	2007.4	2063.2
45°	1045.5	1069.4	1121.2	1192.9	1278.5	1378.1	1483.7	1595.1	1692.8	1774.4	1836.1
47.5°	814.5	836.4	888.2	963.9	1069.4	1173.0	1282.5	1398.0	1499.6	1579.2	1633.0
50°	643.2	671.1	716.9	796.6	902.2	1011.7	1125.2	1238.6	1334.3	1402.0	1449.8
52.5°	505.8	531.7	575.5	659.2	766.7	876.3	981.8	1093.3	1176.9	1242.7	1274.6
55°	392.3	416.2	462.0	531.7	633.3	740.8	846.3	942.0	1019.6	1067.4	1097.3
57.5°	298.7	316.7	348.5	418.2	509.9	609.4	699.0	794.6	854.4	888.2	908.1
60°	227.1	241.0	274.8	328.6	412.2	497.9	573.5	645.3	693.1	720.9	740.8
62.5°	171.2	187.2	211.1	256.9	320.6	390.3	454.0	507.8	547.6	565.6	579.5
65°	117.5	129.4	147.4	183.2	237.0	286.7	336.6	376.4	402.3	422.2	430.2
67.5°	87.6	95.6	105.6	133.4	171.2	211.1	244.9	272.8	300.7	308.7	322.6
70°	65.7	71.7	81.6	101.6	123.4	151.3	179.3	195.2	215.1	229.0	233.0
72.5°	41.8	43.8	53.8	65.7	83.6	101.6	119.5	133.4	145.4	153.4	157.3
75°	23.9	35.8	35.8	47.8	59.8	67.7	79.7	89.6	95.6	101.6	101.6
77.5°	15.9	21.9	23.9	29.8	35.8	45.8	55.7	61.7	67.7	69.7	69.7
80°	13.9	15.9	15.9	21.9	25.9	33.9	39.8	41.8	45.8	47.8	51.8
82.5°	6.0	8.0	9.9	15.9	18.0	18.0	23.9	25.9	29.8	31.9	31.9
85°	2.0	4.0	4.0	6.0	9.9	12.0	13.9	15.9	18.0	18.0	19.9
87.5°	2.0	2.0	0.0	2.0	4.0	4.0	8.0	8.0	8.0	12.0	12.0
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: P249056

CATALOG NUMBER: LD8B70D010 ER8B70950 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5	4078.5
2.5°	4042.7	4044.6	4036.7	4034.7	4030.7	4032.7	4036.7
5°	3969.0	3971.0	3963.0	3955.1	3955.1	3953.0	3955.1
7.5°	3899.2	3901.3	3889.3	3885.3	3877.3	3879.4	3879.4
10°	3829.6	3829.6	3811.7	3809.6	3803.7	3801.7	3801.7
12.5°	3761.9	3755.9	3741.9	3734.0	3738.0	3726.0	3726.0
15°	3702.1	3692.2	3674.2	3668.2	3658.3	3654.3	3654.3
17.5°	3640.4	3632.4	3616.5	3604.6	3592.6	3590.6	3592.6
20°	3580.6	3572.7	3552.7	3544.8	3534.9	3534.9	3530.9
22.5°	3520.9	3512.9	3495.0	3489.1	3475.1	3475.1	3477.1
25°	3459.1	3453.2	3433.2	3429.3	3427.3	3419.3	3423.3
27.5°	3375.5	3371.5	3355.6	3349.6	3341.7	3339.7	3343.6
30°	3222.2	3216.2	3204.3	3198.3	3184.4	3186.3	3190.3
32.5°	3031.0	3023.1	3007.1	3001.1	2989.2	2985.2	2987.2
35°	2792.1	2786.1	2772.1	2772.1	2760.2	2756.2	2760.2
37.5°	2549.1	2555.0	2549.1	2555.0	2549.1	2547.1	2549.1
40°	2320.1	2342.0	2345.9	2367.9	2359.9	2371.8	2369.8
42.5°	2101.0	2136.8	2150.8	2168.7	2164.7	2172.7	2178.7
45°	1879.9	1909.8	1923.8	1935.7	1937.7	1941.7	1943.7
47.5°	1670.8	1694.7	1696.7	1710.6	1708.7	1708.7	1714.6
50°	1475.7	1491.6	1495.5	1505.5	1497.6	1493.6	1495.5
52.5°	1294.5	1310.4	1306.4	1310.4	1300.5	1296.4	1298.4
55°	1109.2	1117.2	1117.2	1117.2	1105.3	1105.3	1105.3
57.5°	920.0	922.1	918.1	920.0	918.1	906.1	904.1
60°	746.8	746.8	744.8	746.8	740.8	734.9	734.9
62.5°	583.5	587.5	595.4	587.5	583.5	587.5	581.5
65°	436.2	444.1	442.1	446.1	444.1	444.1	440.1
67.5°	328.6	330.6	332.6	334.6	334.6	334.6	334.6
70°	241.0	247.0	244.9	244.9	244.9	244.9	256.9
72.5°	161.3	169.3	167.3	171.2	171.2	175.3	171.2
75°	109.5	117.5	113.5	119.5	117.5	113.5	123.4
77.5°	73.7	77.7	79.7	81.6	79.7	77.7	79.7
80°	51.8	55.7	53.8	55.7	55.7	55.7	57.8
82.5°	31.9	37.9	35.8	37.9	35.8	37.9	37.9
85°	21.9	23.9	19.9	23.9	21.9	21.9	25.9
87.5°	13.9	12.0	12.0	13.9	12.0	13.9	12.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)