

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: P248645

Luminaire Tested: **LD8B100D010 ER8B1009730 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248645  
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: LD8B100D010 ER8B1009730 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8013.0 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

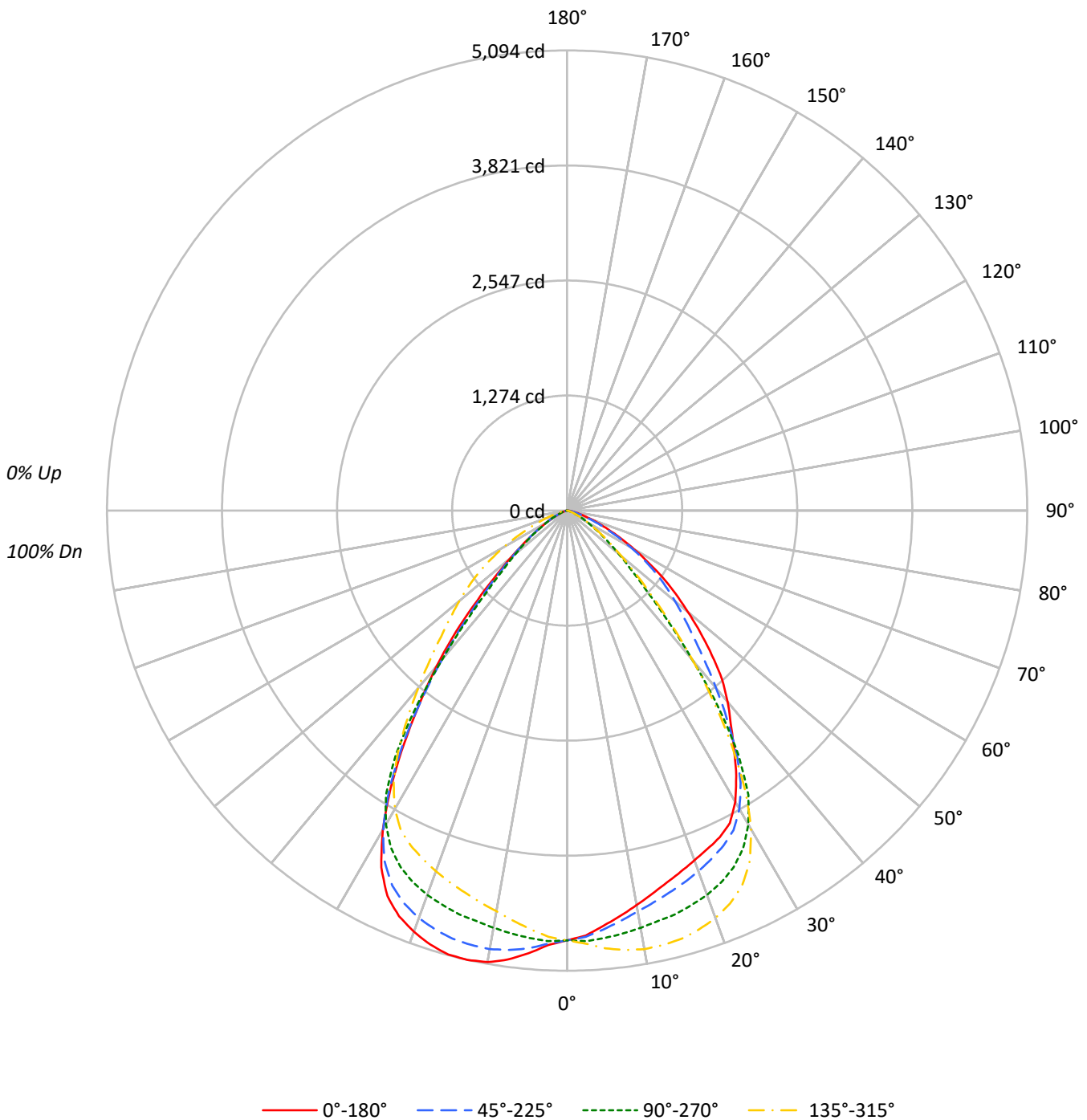
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

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

	0°	90°	180°	270°
0°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	452.8	5.7
10°-20°	1311.2	16.4
20°-30°	1985.4	24.8
30°-40°	1989.9	24.8
40°-50°	1249.5	15.6
50°-60°	665.9	8.3
60°-70°	273.8	3.4
70°-80°	72.3	0.9
80°-90°	12.2	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°	3749.4	46.8
0°-40°	5739.2	71.6
0°-60°	7654.6	95.5
0°-90°	8013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8013.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4757	4757	4757	4757	4757	
5°	4613	4750	4920	4750	4613	435
15°	4262	4627	5087	4627	4262	1206
25°	3993	4358	4708	4358	3993	1831
35°	3219	3310	3140	3310	3219	2017
45°	2267	1212	1403	1212	2267	1744
55°	1289	448	474	448	1289	1149
65°	513	137	125	137	513	532
75°	144	28	23	28	144	163
85°	30	0	2	0	30	33
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°	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1
2.5°	4708.3	4703.6	4701.3	4706.0	4708.3	4717.6	4715.3	4719.9	4719.9	4722.3	4726.9
5°	4613.1	4610.7	4613.1	4613.1	4622.4	4631.6	4629.3	4636.3	4640.9	4652.6	4657.2
7.5°	4524.8	4524.8	4522.4	4531.7	4536.4	4550.4	4548.0	4559.6	4566.6	4578.2	4594.4
10°	4434.2	4434.2	4436.5	4443.5	4445.9	4466.7	4466.7	4483.0	4492.2	4503.9	4524.8
12.5°	4346.0	4346.0	4359.9	4355.2	4364.5	4380.8	4387.7	4404.0	4417.9	4441.2	4462.1
15°	4262.3	4262.3	4267.0	4278.5	4285.5	4306.5	4318.0	4336.7	4352.9	4376.2	4406.4
17.5°	4190.3	4188.0	4190.3	4204.3	4218.2	4236.8	4246.0	4269.3	4285.5	4315.7	4343.7
20°	4118.3	4123.0	4123.0	4134.6	4143.8	4167.1	4176.3	4202.0	4220.5	4248.3	4280.9
22.5°	4055.6	4053.3	4053.3	4069.5	4076.5	4097.4	4106.6	4129.9	4150.8	4174.0	4204.3
25°	3992.9	3988.2	3997.6	3999.9	4004.4	4027.7	4034.7	4050.9	4071.8	4092.8	4123.0
27.5°	3899.9	3895.4	3897.6	3906.9	3913.9	3932.4	3937.1	3953.4	3969.6	3988.2	4013.8
30°	3721.1	3716.5	3714.2	3730.4	3737.4	3751.3	3758.2	3786.2	3790.8	3811.7	3830.2
32.5°	3484.1	3481.8	3486.5	3500.4	3507.4	3526.0	3535.3	3551.5	3563.1	3574.8	3593.3
35°	3219.4	3214.7	3219.4	3233.4	3233.4	3249.6	3256.6	3263.5	3261.2	3263.5	3258.9
37.5°	2973.2	2970.8	2973.2	2980.1	2973.2	2980.1	2973.2	2959.3	2933.7	2905.8	2877.9
40°	2764.1	2766.4	2752.6	2761.8	2736.2	2731.6	2706.1	2671.2	2620.1	2564.4	2485.4
42.5°	2541.2	2534.2	2524.9	2529.5	2508.7	2492.3	2450.5	2406.4	2341.3	2248.5	2153.2
45°	2267.1	2264.8	2260.1	2257.8	2243.8	2227.6	2192.7	2141.6	2069.6	1974.4	1860.5
47.5°	1999.9	1992.9	1992.9	1995.2	1979.0	1976.7	1948.8	1904.7	1842.0	1749.1	1630.6
50°	1744.4	1742.1	1746.8	1756.0	1744.4	1739.8	1721.2	1691.0	1635.3	1556.3	1444.7
52.5°	1514.4	1512.1	1516.8	1528.4	1523.7	1528.4	1509.8	1486.6	1449.4	1372.7	1275.2
55°	1289.2	1289.2	1289.2	1303.0	1303.0	1303.0	1293.8	1279.9	1245.0	1189.3	1098.7
57.5°	1054.6	1056.8	1070.8	1073.1	1070.8	1075.5	1073.1	1059.1	1036.0	996.5	926.8
60°	857.1	857.1	864.1	871.1	868.7	871.1	871.1	864.1	840.9	808.4	752.6
62.5°	678.2	685.2	680.5	685.2	694.5	685.2	680.5	675.9	659.7	638.8	592.3
65°	513.3	518.0	518.0	520.3	515.6	518.0	508.7	501.8	492.5	469.2	439.0
67.5°	390.3	390.3	390.3	390.3	387.9	385.6	383.3	376.3	360.1	350.8	318.2
70°	299.6	285.7	285.7	285.7	285.7	288.1	281.1	271.8	267.1	250.9	227.6
72.5°	199.7	204.4	199.7	199.7	195.1	197.4	188.2	183.5	178.9	169.6	155.6
75°	144.0	132.4	137.0	139.4	132.4	137.0	127.7	118.5	118.5	111.5	104.5
77.5°	92.9	90.6	92.9	95.2	92.9	90.6	86.0	81.3	81.3	79.0	72.0
80°	67.4	65.0	65.0	65.0	62.7	65.0	60.4	60.4	55.7	53.4	48.8
82.5°	44.2	44.2	41.8	44.2	41.8	44.2	37.2	37.2	37.2	34.8	30.2
85°	30.2	25.5	25.5	27.9	23.2	27.9	25.5	23.2	20.9	20.9	18.5
87.5°	14.0	16.3	14.0	16.3	14.0	14.0	16.3	14.0	14.0	9.3	9.3
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°	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1
2.5°	4733.8	4736.1	4736.1	4745.5	4750.1	4752.4	4752.4	4771.0	4764.0	4768.7	4773.3
5°	4666.5	4680.4	4685.1	4685.1	4710.6	4719.9	4729.1	4750.1	4752.4	4766.3	4782.6
7.5°	4601.4	4617.7	4627.0	4647.9	4664.1	4680.4	4708.3	4722.3	4736.1	4754.8	4775.6
10°	4538.7	4557.3	4575.9	4592.1	4617.7	4638.6	4657.2	4689.7	4706.0	4731.5	4759.4
12.5°	4478.4	4503.9	4520.1	4548.0	4575.9	4594.4	4622.4	4652.6	4678.1	4703.6	4736.1
15°	4424.9	4455.1	4473.7	4503.9	4534.1	4559.6	4589.8	4627.0	4645.6	4675.8	4706.0
17.5°	4366.8	4399.4	4422.6	4450.4	4487.6	4515.5	4541.1	4578.2	4601.4	4633.9	4668.8
20°	4306.5	4339.0	4366.8	4394.7	4431.9	4459.7	4489.9	4527.1	4552.7	4585.2	4613.1
22.5°	4234.5	4264.7	4294.8	4327.3	4364.5	4387.7	4422.6	4455.1	4483.0	4513.2	4541.1
25°	4141.5	4178.7	4202.0	4232.1	4262.3	4287.8	4325.0	4357.5	4380.8	4408.7	4434.2
27.5°	4032.4	4060.3	4078.8	4104.3	4134.6	4157.8	4185.6	4218.2	4241.5	4267.0	4285.5
30°	3846.5	3872.1	3888.4	3906.9	3937.1	3958.1	3981.3	4011.4	4027.7	4046.3	4062.6
32.5°	3602.6	3623.5	3632.8	3646.8	3667.7	3688.6	3707.2	3732.7	3739.7	3751.3	3751.3
35°	3249.6	3254.2	3251.9	3256.6	3265.9	3277.4	3293.7	3309.9	3319.2	3319.2	3312.3
37.5°	2836.1	2808.3	2778.1	2754.8	2747.9	2743.2	2752.6	2759.4	2768.8	2773.4	2761.8
40°	2406.4	2343.7	2276.3	2215.9	2174.1	2155.6	2148.6	2153.2	2153.2	2169.4	2169.4
42.5°	2037.1	1939.5	1839.7	1749.1	1688.6	1642.3	1621.3	1621.3	1623.6	1635.3	1642.3
45°	1730.5	1607.4	1491.2	1391.4	1307.7	1247.3	1219.5	1212.5	1210.2	1214.8	1231.0
47.5°	1495.9	1368.1	1247.3	1124.3	1036.0	975.6	950.1	940.7	931.4	940.7	943.1
50°	1312.4	1180.0	1052.3	929.1	836.2	782.7	750.2	736.3	734.0	734.0	738.7
52.5°	1145.1	1022.0	894.3	768.9	671.3	620.2	590.0	583.0	573.7	583.0	583.0
55°	987.2	864.1	738.7	620.2	538.8	485.5	457.6	448.3	443.6	450.6	450.6
57.5°	815.3	710.7	594.7	487.8	406.5	369.3	348.4	336.8	334.4	339.1	334.4
60°	669.0	580.7	480.8	383.3	320.6	281.1	264.8	260.1	255.5	260.1	260.1
62.5°	529.6	455.3	373.9	299.6	246.2	218.4	199.7	199.7	197.4	197.4	199.7
65°	392.6	334.4	276.4	213.7	171.9	151.0	137.0	137.0	134.7	137.0	134.7
67.5°	285.7	246.2	199.7	155.6	123.1	111.5	102.2	95.2	99.9	95.2	92.9
70°	209.1	176.5	144.0	118.5	95.2	83.7	76.7	74.3	69.7	69.7	69.7
72.5°	139.4	118.5	97.5	76.7	62.7	51.1	48.8	44.2	39.5	41.8	46.5
75°	92.9	79.0	69.7	55.7	41.8	41.8	27.9	27.9	23.2	27.9	20.9
77.5°	65.0	53.4	41.8	34.8	27.9	25.5	18.5	18.5	16.3	16.3	16.3
80°	46.5	39.5	30.2	25.5	18.5	18.5	16.3	14.0	11.6	11.6	14.0
82.5°	27.9	20.9	20.9	18.5	11.6	9.3	7.0	9.3	4.7	4.7	4.7
85°	16.3	14.0	11.6	7.0	4.7	4.7	2.3	0.0	2.3	2.3	0.0
87.5°	9.3	4.7	4.7	2.3	0.0	2.3	2.3	0.0	0.0	0.0	4.7
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°	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1
2.5°	4785.0	4782.6	4787.3	4787.3	4801.2	4798.8	4805.8	4805.8	4801.2	4803.5	4812.8
5°	4801.2	4808.2	4822.1	4833.7	4854.6	4864.0	4875.5	4887.2	4889.5	4896.5	4903.4
7.5°	4801.2	4824.5	4840.7	4861.6	4889.5	4905.7	4931.3	4952.2	4961.5	4973.0	4987.0
10°	4791.9	4815.1	4845.3	4868.5	4903.4	4929.0	4954.5	4987.0	5001.0	5019.5	5038.2
12.5°	4773.3	4798.8	4831.4	4861.6	4901.0	4924.3	4956.8	4987.0	5007.9	5033.5	5054.4
15°	4745.5	4775.6	4805.8	4836.0	4877.8	4905.7	4935.9	4970.7	4991.7	5019.5	5038.2
17.5°	4701.3	4733.8	4761.7	4789.6	4829.1	4861.6	4889.5	4922.0	4942.9	4966.2	4991.7
20°	4647.9	4678.1	4708.3	4731.5	4771.0	4798.8	4829.1	4859.3	4875.5	4880.2	4919.7
22.5°	4580.6	4601.4	4624.6	4661.8	4685.1	4710.6	4738.5	4766.3	4782.6	4808.2	4822.1
25°	4469.0	4489.9	4515.5	4531.7	4559.6	4580.6	4608.4	4638.6	4647.9	4666.5	4680.4
27.5°	4313.4	4325.0	4336.7	4350.5	4366.8	4378.5	4394.7	4408.7	4417.9	4427.2	4436.5
30°	4067.2	4067.2	4067.2	4057.9	4064.9	4071.8	4074.1	4071.8	4071.8	4069.5	4069.5
32.5°	3742.0	3723.4	3702.5	3684.0	3677.0	3667.7	3663.0	3656.0	3644.5	3637.5	3639.8
35°	3303.0	3261.2	3235.7	3212.4	3193.9	3179.9	3172.9	3166.0	3163.7	3154.4	3145.0
37.5°	2754.8	2724.6	2706.1	2692.1	2675.9	2661.9	2664.2	2666.6	2673.5	2668.9	2671.2
40°	2174.1	2167.1	2174.1	2157.9	2153.2	2157.9	2169.4	2185.8	2195.1	2204.3	2220.6
42.5°	1653.8	1665.4	1681.7	1681.7	1688.6	1698.0	1711.9	1737.5	1751.3	1767.6	1786.2
45°	1245.0	1259.0	1279.9	1286.8	1291.5	1303.0	1319.4	1340.2	1349.5	1363.5	1379.7
47.5°	959.3	968.6	980.2	991.8	1003.4	1008.1	1024.3	1024.3	1036.0	1045.3	1049.9
50°	747.9	757.2	766.5	773.5	778.2	785.1	789.7	796.7	799.0	803.7	806.0
52.5°	585.3	597.0	597.0	601.6	608.5	615.5	613.2	615.5	617.8	617.8	624.8
55°	457.6	457.6	464.6	464.6	469.2	466.9	469.2	469.2	469.2	469.2	471.5
57.5°	341.4	343.8	350.8	346.1	343.8	348.4	343.8	348.4	346.1	350.8	343.8
60°	262.4	262.4	264.8	264.8	267.1	267.1	267.1	264.8	264.8	262.4	262.4
62.5°	197.4	199.7	202.1	199.7	199.7	199.7	197.4	197.4	195.1	192.7	192.7
65°	132.4	130.1	134.7	130.1	132.4	132.4	130.1	132.4	125.4	127.7	125.4
67.5°	95.2	92.9	90.6	92.9	90.6	88.2	88.2	90.6	92.9	86.0	86.0
70°	62.7	65.0	62.7	65.0	67.4	67.4	65.0	62.7	65.0	60.4	62.7
72.5°	39.5	39.5	39.5	39.5	39.5	41.8	41.8	41.8	37.2	37.2	34.8
75°	18.5	25.5	20.9	18.5	25.5	25.5	23.2	23.2	20.9	20.9	20.9
77.5°	18.5	14.0	14.0	14.0	14.0	14.0	14.0	14.0	11.6	14.0	11.6
80°	9.3	9.3	9.3	7.0	9.3	9.3	11.6	9.3	9.3	7.0	11.6
82.5°	4.7	4.7	4.7	0.0	2.3	4.7	4.7	2.3	4.7	4.7	2.3
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: P248645

CATALOG NUMBER: LD8B100D010 ER8B1009730 8LBSWOH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1
2.5°	4810.5	4808.2	4810.5	4812.8	4810.5	4808.2	4810.5	4812.8	4803.5	4801.2	4805.8
5°	4912.7	4912.7	4917.3	4919.7	4917.3	4912.7	4912.7	4903.4	4896.5	4889.5	4887.2
7.5°	5001.0	5005.6	5010.2	5012.5	5010.2	5005.6	5001.0	4987.0	4973.0	4961.5	4952.2
10°	5054.4	5061.4	5070.7	5075.2	5070.7	5061.4	5054.4	5038.2	5019.5	5001.0	4987.0
12.5°	5077.6	5084.6	5096.2	5093.9	5096.2	5084.6	5077.6	5054.4	5033.5	5007.9	4987.0
15°	5061.4	5070.7	5082.2	5086.9	5082.2	5070.7	5061.4	5038.2	5019.5	4991.7	4970.7
17.5°	5010.2	5024.2	5031.2	5038.2	5031.2	5024.2	5010.2	4991.7	4966.2	4942.9	4922.0
20°	4940.5	4949.9	4959.2	4961.5	4959.2	4949.9	4940.5	4919.7	4880.2	4875.5	4859.3
22.5°	4840.7	4847.7	4868.5	4861.6	4868.5	4847.7	4840.7	4822.1	4808.2	4782.6	4766.3
25°	4696.6	4703.6	4706.0	4708.3	4706.0	4703.6	4696.6	4680.4	4666.5	4647.9	4638.6
27.5°	4448.2	4448.2	4452.7	4455.1	4452.7	4448.2	4448.2	4436.5	4427.2	4417.9	4408.7
30°	4071.8	4071.8	4071.8	4083.5	4071.8	4071.8	4071.8	4069.5	4069.5	4071.8	4071.8
32.5°	3637.5	3632.8	3628.2	3632.8	3628.2	3632.8	3637.5	3639.8	3637.5	3644.5	3656.0
35°	3145.0	3142.7	3149.7	3140.4	3149.7	3142.7	3145.0	3145.0	3154.4	3163.7	3166.0
37.5°	2673.5	2668.9	2678.2	2668.9	2678.2	2668.9	2673.5	2671.2	2668.9	2673.5	2666.6
40°	2225.3	2229.9	2229.9	2248.5	2229.9	2229.9	2225.3	2220.6	2204.3	2195.1	2185.8
42.5°	1795.5	1809.5	1804.8	1818.7	1804.8	1809.5	1795.5	1786.2	1767.6	1751.3	1737.5
45°	1389.0	1398.4	1398.4	1402.9	1398.4	1398.4	1389.0	1379.7	1363.5	1349.5	1340.2
47.5°	1066.1	1066.1	1066.1	1068.5	1066.1	1066.1	1066.1	1049.9	1045.3	1036.0	1024.3
50°	810.7	813.0	815.3	817.6	815.3	813.0	810.7	806.0	803.7	799.0	796.7
52.5°	622.5	624.8	620.2	624.8	620.2	624.8	622.5	624.8	617.8	617.8	615.5
55°	471.5	469.2	471.5	473.8	471.5	469.2	471.5	471.5	469.2	469.2	469.2
57.5°	346.1	341.4	341.4	341.4	341.4	341.4	346.1	343.8	350.8	346.1	348.4
60°	257.9	260.1	260.1	262.4	260.1	260.1	257.9	262.4	262.4	264.8	264.8
62.5°	190.5	197.4	192.7	197.4	192.7	197.4	190.5	192.7	192.7	195.1	197.4
65°	123.1	123.1	123.1	125.4	123.1	123.1	123.1	125.4	127.7	125.4	132.4
67.5°	83.7	86.0	90.6	88.2	90.6	86.0	83.7	86.0	86.0	92.9	90.6
70°	67.4	60.4	60.4	67.4	60.4	60.4	67.4	62.7	60.4	65.0	62.7
72.5°	39.5	34.8	39.5	39.5	39.5	34.8	39.5	34.8	37.2	37.2	41.8
75°	20.9	18.5	16.3	23.2	16.3	18.5	20.9	20.9	20.9	20.9	23.2
77.5°	14.0	11.6	16.3	16.3	16.3	11.6	14.0	11.6	14.0	11.6	14.0
80°	7.0	9.3	7.0	11.6	7.0	9.3	7.0	11.6	7.0	9.3	9.3
82.5°	2.3	4.7	4.7	4.7	4.7	4.7	2.3	2.3	4.7	4.7	2.3
85°	0.0	4.7	2.3	2.3	2.3	4.7	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.0	0.0	2.3	0.0	0.0	2.3	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: P248645

CATALOG NUMBER: LD8B100D010 ER8B1009730 8LBSWOH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1
2.5°	4805.8	4798.8	4801.2	4787.3	4787.3	4782.6	4785.0	4773.3	4768.7	4764.0	4771.0
5°	4875.5	4864.0	4854.6	4833.7	4822.1	4808.2	4801.2	4782.6	4766.3	4752.4	4750.1
7.5°	4931.3	4905.7	4889.5	4861.6	4840.7	4824.5	4801.2	4775.6	4754.8	4736.1	4722.3
10°	4954.5	4929.0	4903.4	4868.5	4845.3	4815.1	4791.9	4759.4	4731.5	4706.0	4689.7
12.5°	4956.8	4924.3	4901.0	4861.6	4831.4	4798.8	4773.3	4736.1	4703.6	4678.1	4652.6
15°	4935.9	4905.7	4877.8	4836.0	4805.8	4775.6	4745.5	4706.0	4675.8	4645.6	4627.0
17.5°	4889.5	4861.6	4829.1	4789.6	4761.7	4733.8	4701.3	4668.8	4633.9	4601.4	4578.2
20°	4829.1	4798.8	4771.0	4731.5	4708.3	4678.1	4647.9	4613.1	4585.2	4552.7	4527.1
22.5°	4738.5	4710.6	4685.1	4661.8	4624.6	4601.4	4580.6	4541.1	4513.2	4483.0	4455.1
25°	4608.4	4580.6	4559.6	4531.7	4515.5	4489.9	4469.0	4434.2	4408.7	4380.8	4357.5
27.5°	4394.7	4378.5	4366.8	4350.5	4336.7	4325.0	4313.4	4285.5	4267.0	4241.5	4218.2
30°	4074.1	4071.8	4064.9	4057.9	4067.2	4067.2	4067.2	4062.6	4046.3	4027.7	4011.4
32.5°	3663.0	3667.7	3677.0	3684.0	3702.5	3723.4	3742.0	3751.3	3751.3	3739.7	3732.7
35°	3172.9	3179.9	3193.9	3212.4	3235.7	3261.2	3303.0	3312.3	3319.2	3319.2	3309.9
37.5°	2664.2	2661.9	2675.9	2692.1	2706.1	2724.6	2754.8	2761.8	2773.4	2768.8	2759.4
40°	2169.4	2157.9	2153.2	2157.9	2174.1	2167.1	2174.1	2169.4	2169.4	2153.2	2153.2
42.5°	1711.9	1698.0	1688.6	1681.7	1681.7	1665.4	1653.8	1642.3	1635.3	1623.6	1621.3
45°	1319.4	1303.0	1291.5	1286.8	1279.9	1259.0	1245.0	1231.0	1214.8	1210.2	1212.5
47.5°	1024.3	1008.1	1003.4	991.8	980.2	968.6	959.3	943.1	940.7	931.4	940.7
50°	789.7	785.1	778.2	773.5	766.5	757.2	747.9	738.7	734.0	734.0	736.3
52.5°	613.2	615.5	608.5	601.6	597.0	597.0	585.3	583.0	583.0	573.7	583.0
55°	469.2	466.9	469.2	464.6	464.6	457.6	457.6	450.6	450.6	443.6	448.3
57.5°	343.8	348.4	343.8	346.1	350.8	343.8	341.4	334.4	339.1	334.4	336.8
60°	267.1	267.1	267.1	264.8	264.8	262.4	262.4	260.1	260.1	255.5	260.1
62.5°	197.4	199.7	199.7	199.7	202.1	199.7	197.4	199.7	197.4	197.4	199.7
65°	130.1	132.4	132.4	130.1	134.7	130.1	132.4	134.7	137.0	134.7	137.0
67.5°	88.2	88.2	90.6	92.9	90.6	92.9	95.2	92.9	95.2	99.9	95.2
70°	65.0	67.4	67.4	65.0	62.7	65.0	62.7	69.7	69.7	69.7	74.3
72.5°	41.8	41.8	39.5	39.5	39.5	39.5	39.5	46.5	41.8	39.5	44.2
75°	23.2	25.5	25.5	18.5	20.9	25.5	18.5	20.9	27.9	23.2	27.9
77.5°	14.0	14.0	14.0	14.0	14.0	14.0	18.5	16.3	16.3	16.3	18.5
80°	11.6	9.3	9.3	7.0	9.3	9.3	9.3	14.0	11.6	11.6	14.0
82.5°	4.7	4.7	2.3	0.0	4.7	4.7	4.7	4.7	4.7	4.7	9.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	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: P248645

CATALOG NUMBER: LD8B100D010 ER8B1009730 8LBSWOH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1
2.5°	4752.4	4752.4	4750.1	4745.5	4736.1	4736.1	4733.8	4726.9	4722.3	4719.9	4719.9
5°	4729.1	4719.9	4710.6	4685.1	4685.1	4680.4	4666.5	4657.2	4652.6	4640.9	4636.3
7.5°	4708.3	4680.4	4664.1	4647.9	4627.0	4617.7	4601.4	4594.4	4578.2	4566.6	4559.6
10°	4657.2	4638.6	4617.7	4592.1	4575.9	4557.3	4538.7	4524.8	4503.9	4492.2	4483.0
12.5°	4622.4	4594.4	4575.9	4548.0	4520.1	4503.9	4478.4	4462.1	4441.2	4417.9	4404.0
15°	4589.8	4559.6	4534.1	4503.9	4473.7	4455.1	4424.9	4406.4	4376.2	4352.9	4336.7
17.5°	4541.1	4515.5	4487.6	4450.4	4422.6	4399.4	4366.8	4343.7	4315.7	4285.5	4269.3
20°	4489.9	4459.7	4431.9	4394.7	4366.8	4339.0	4306.5	4280.9	4248.3	4220.5	4202.0
22.5°	4422.6	4387.7	4364.5	4327.3	4294.8	4264.7	4234.5	4204.3	4174.0	4150.8	4129.9
25°	4325.0	4287.8	4262.3	4232.1	4202.0	4178.7	4141.5	4123.0	4092.8	4071.8	4050.9
27.5°	4185.6	4157.8	4134.6	4104.3	4078.8	4060.3	4032.4	4013.8	3988.2	3969.6	3953.4
30°	3981.3	3958.1	3937.1	3906.9	3888.4	3872.1	3846.5	3830.2	3811.7	3790.8	3786.2
32.5°	3707.2	3688.6	3667.7	3646.8	3632.8	3623.5	3602.6	3593.3	3574.8	3563.1	3551.5
35°	3293.7	3277.4	3265.9	3256.6	3251.9	3254.2	3249.6	3258.9	3263.5	3261.2	3263.5
37.5°	2752.6	2743.2	2747.9	2754.8	2778.1	2808.3	2836.1	2877.9	2905.8	2933.7	2959.3
40°	2148.6	2155.6	2174.1	2215.9	2276.3	2343.7	2406.4	2485.4	2564.4	2620.1	2671.2
42.5°	1621.3	1642.3	1688.6	1749.1	1839.7	1939.5	2037.1	2153.2	2248.5	2341.3	2406.4
45°	1219.5	1247.3	1307.7	1391.4	1491.2	1607.4	1730.5	1860.5	1974.4	2069.6	2141.6
47.5°	950.1	975.6	1036.0	1124.3	1247.3	1368.1	1495.9	1630.6	1749.1	1842.0	1904.7
50°	750.2	782.7	836.2	929.1	1052.3	1180.0	1312.4	1444.7	1556.3	1635.3	1691.0
52.5°	590.0	620.2	671.3	768.9	894.3	1022.0	1145.1	1275.2	1372.7	1449.4	1486.6
55°	457.6	485.5	538.8	620.2	738.7	864.1	987.2	1098.7	1189.3	1245.0	1279.9
57.5°	348.4	369.3	406.5	487.8	594.7	710.7	815.3	926.8	996.5	1036.0	1059.1
60°	264.8	281.1	320.6	383.3	480.8	580.7	669.0	752.6	808.4	840.9	864.1
62.5°	199.7	218.4	246.2	299.6	373.9	455.3	529.6	592.3	638.8	659.7	675.9
65°	137.0	151.0	171.9	213.7	276.4	334.4	392.6	439.0	469.2	492.5	501.8
67.5°	102.2	111.5	123.1	155.6	199.7	246.2	285.7	318.2	350.8	360.1	376.3
70°	76.7	83.7	95.2	118.5	144.0	176.5	209.1	227.6	250.9	267.1	271.8
72.5°	48.8	51.1	62.7	76.7	97.5	118.5	139.4	155.6	169.6	178.9	183.5
75°	27.9	41.8	41.8	55.7	69.7	79.0	92.9	104.5	111.5	118.5	118.5
77.5°	18.5	25.5	27.9	34.8	41.8	53.4	65.0	72.0	79.0	81.3	81.3
80°	16.3	18.5	18.5	25.5	30.2	39.5	46.5	48.8	53.4	55.7	60.4
82.5°	7.0	9.3	11.6	18.5	20.9	20.9	27.9	30.2	34.8	37.2	37.2
85°	2.3	4.7	4.7	7.0	11.6	14.0	16.3	18.5	20.9	20.9	23.2
87.5°	2.3	2.3	0.0	2.3	4.7	4.7	9.3	9.3	9.3	14.0	14.0
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: P248645

CATALOG NUMBER: LD8B100D010 ER8B1009730 8LBSWOH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1	4757.1
2.5°	4715.3	4717.6	4708.3	4706.0	4701.3	4703.6	4708.3
5°	4629.3	4631.6	4622.4	4613.1	4613.1	4610.7	4613.1
7.5°	4548.0	4550.4	4536.4	4531.7	4522.4	4524.8	4524.8
10°	4466.7	4466.7	4445.9	4443.5	4436.5	4434.2	4434.2
12.5°	4387.7	4380.8	4364.5	4355.2	4359.9	4346.0	4346.0
15°	4318.0	4306.5	4285.5	4278.5	4267.0	4262.3	4262.3
17.5°	4246.0	4236.8	4218.2	4204.3	4190.3	4188.0	4190.3
20°	4176.3	4167.1	4143.8	4134.6	4123.0	4123.0	4118.3
22.5°	4106.6	4097.4	4076.5	4069.5	4053.3	4053.3	4055.6
25°	4034.7	4027.7	4004.4	3999.9	3997.6	3988.2	3992.9
27.5°	3937.1	3932.4	3913.9	3906.9	3897.6	3895.4	3899.9
30°	3758.2	3751.3	3737.4	3730.4	3714.2	3716.5	3721.1
32.5°	3535.3	3526.0	3507.4	3500.4	3486.5	3481.8	3484.1
35°	3256.6	3249.6	3233.4	3233.4	3219.4	3214.7	3219.4
37.5°	2973.2	2980.1	2973.2	2980.1	2973.2	2970.8	2973.2
40°	2706.1	2731.6	2736.2	2761.8	2752.6	2766.4	2764.1
42.5°	2450.5	2492.3	2508.7	2529.5	2524.9	2534.2	2541.2
45°	2192.7	2227.6	2243.8	2257.8	2260.1	2264.8	2267.1
47.5°	1948.8	1976.7	1979.0	1995.2	1992.9	1992.9	1999.9
50°	1721.2	1739.8	1744.4	1756.0	1746.8	1742.1	1744.4
52.5°	1509.8	1528.4	1523.7	1528.4	1516.8	1512.1	1514.4
55°	1293.8	1303.0	1303.0	1303.0	1289.2	1289.2	1289.2
57.5°	1073.1	1075.5	1070.8	1073.1	1070.8	1056.8	1054.6
60°	871.1	871.1	868.7	871.1	864.1	857.1	857.1
62.5°	680.5	685.2	694.5	685.2	680.5	685.2	678.2
65°	508.7	518.0	515.6	520.3	518.0	518.0	513.3
67.5°	383.3	385.6	387.9	390.3	390.3	390.3	390.3
70°	281.1	288.1	285.7	285.7	285.7	285.7	299.6
72.5°	188.2	197.4	195.1	199.7	199.7	204.4	199.7
75°	127.7	137.0	132.4	139.4	137.0	132.4	144.0
77.5°	86.0	90.6	92.9	95.2	92.9	90.6	92.9
80°	60.4	65.0	62.7	65.0	65.0	65.0	67.4
82.5°	37.2	44.2	41.8	44.2	41.8	44.2	44.2
85°	25.5	27.9	23.2	27.9	25.5	25.5	30.2
87.5°	16.3	14.0	14.0	16.3	14.0	16.3	14.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)