

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: P248688

Luminaire Tested: **LD8B80D010 ER8B80850 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248688  
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: LD8B80D010 ER8B80850 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: 8404.0 lumens  
Efficiency: N/A  
Efficacy: 113.0 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

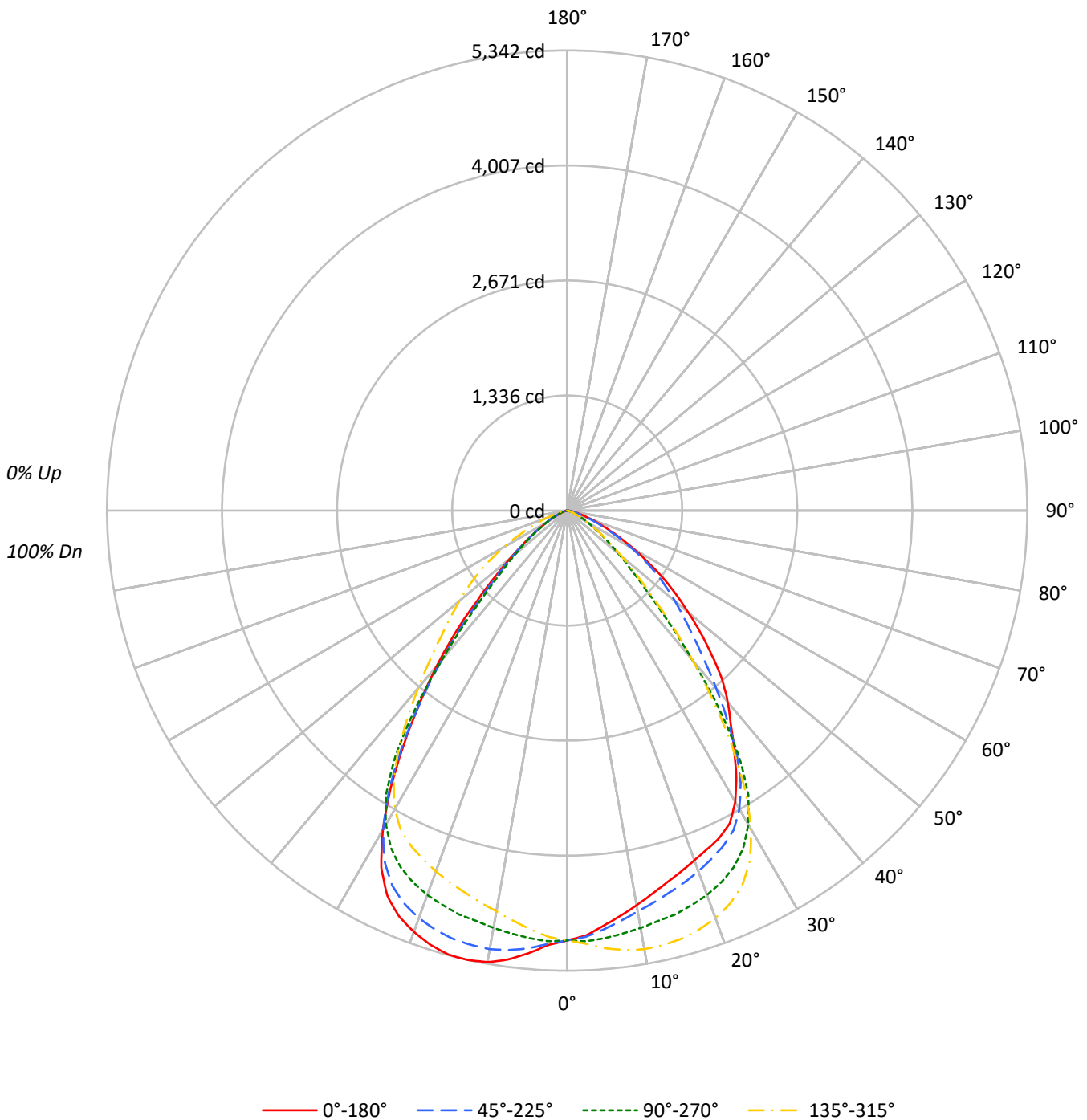
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	153849	153849	153849	153849
5°	149762	154210	159717	154210
10°	145620	154008	166671	154008
15°	142710	154921	170318	154921
20°	141739	155807	170758	155807
25°	142483	155494	168011	155494
30°	138959	149805	152496	149805
35°	127106	130682	123989	130682
40°	116696	90905	94927	90905
45°	103689	55458	64166	55458
50°	87766	37045	41137	37045
55°	72691	25279	26719	25279
60°	55438	16824	16972	16824
65°	39284	10485	9602	10485
70°	28337	7023	6374	7023
75°	17990	3491	2907	3491
80°	12555	2593	2149	2593
85°	11216	0	849	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	474.9	5.7
10°-20°	1375.2	16.4
20°-30°	2082.3	24.8
30°-40°	2086.9	24.8
40°-50°	1310.5	15.6
50°-60°	698.4	8.3
60°-70°	287.2	3.4
70°-80°	75.9	0.9
80°-90°	12.8	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°	3932.3	46.8
0°-40°	6019.3	71.6
0°-60°	8028.1	95.5
0°-90°	8404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8404.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4989	4989	4989	4989	4989	
5°	4838	4982	5160	4982	4838	456
15°	4470	4853	5335	4853	4470	1264
25°	4188	4570	4938	4570	4188	1921
35°	3376	3472	3294	3472	3376	2115
45°	2378	1272	1471	1272	2378	1829
55°	1352	470	497	470	1352	1205
65°	538	144	132	144	538	558
75°	151	29	24	29	151	171
85°	32	0	2	0	32	35
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°	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2
2.5°	4938.0	4933.1	4930.7	4935.6	4938.0	4947.8	4945.4	4950.2	4950.2	4952.7	4957.5
5°	4838.2	4835.7	4838.2	4838.2	4847.9	4857.6	4855.2	4862.5	4867.4	4879.6	4884.4
7.5°	4745.6	4745.6	4743.1	4752.8	4757.8	4772.4	4769.9	4782.1	4789.4	4801.6	4818.6
10°	4650.6	4650.6	4653.0	4660.3	4662.8	4684.7	4684.7	4701.7	4711.4	4723.7	4745.6
12.5°	4558.0	4558.0	4572.7	4567.7	4577.5	4594.5	4601.8	4618.9	4633.5	4657.9	4679.8
15°	4470.3	4470.3	4475.2	4487.3	4494.6	4516.6	4528.7	4548.3	4565.3	4589.7	4621.4
17.5°	4394.8	4392.4	4394.8	4409.4	4424.0	4443.5	4453.2	4477.6	4494.6	4526.3	4555.6
20°	4319.3	4324.2	4324.2	4336.3	4346.0	4370.4	4380.1	4407.0	4426.5	4455.6	4489.8
22.5°	4253.5	4251.1	4251.1	4268.1	4275.4	4297.3	4307.0	4331.4	4353.4	4377.7	4409.4
25°	4187.7	4182.8	4192.6	4195.0	4199.8	4224.2	4231.5	4248.6	4270.5	4292.5	4324.2
27.5°	4090.2	4085.4	4087.8	4097.6	4104.9	4124.3	4129.2	4146.3	4163.3	4182.8	4209.7
30°	3902.6	3897.8	3895.4	3912.5	3919.8	3934.3	3941.6	3970.9	3975.7	3997.7	4017.1
32.5°	3654.2	3651.7	3656.7	3671.2	3678.5	3698.1	3707.8	3724.8	3737.0	3749.2	3768.7
35°	3376.5	3371.6	3376.5	3391.1	3391.1	3408.2	3415.5	3422.7	3420.3	3422.7	3417.9
37.5°	3118.3	3115.8	3118.3	3125.5	3118.3	3125.5	3118.3	3103.7	3076.9	3047.6	3018.3
40°	2899.0	2901.4	2886.9	2896.6	2869.7	2864.9	2838.1	2801.5	2748.0	2689.5	2606.7
42.5°	2665.2	2657.8	2648.1	2652.9	2631.1	2613.9	2570.1	2523.9	2455.6	2358.2	2258.3
45°	2377.7	2375.3	2370.4	2367.9	2353.3	2336.3	2299.7	2246.1	2170.6	2070.7	1951.3
47.5°	2097.5	2090.2	2090.2	2092.6	2075.6	2073.1	2043.9	1997.6	1931.9	1834.4	1710.2
50°	1829.5	1827.1	1832.0	1841.7	1829.5	1824.7	1805.2	1773.5	1715.1	1632.2	1515.2
52.5°	1588.3	1585.9	1590.8	1603.0	1598.1	1603.0	1583.5	1559.1	1520.1	1439.7	1337.4
55°	1352.1	1352.1	1352.1	1366.6	1366.6	1366.6	1356.9	1342.4	1305.8	1247.3	1152.3
57.5°	1106.0	1108.4	1123.1	1125.5	1123.1	1128.0	1125.5	1110.8	1086.6	1045.1	972.0
60°	898.9	898.9	906.3	913.6	911.1	913.6	913.6	906.3	881.9	847.8	789.3
62.5°	711.3	718.7	713.7	718.7	728.4	718.7	713.7	708.9	691.9	669.9	621.2
65°	538.4	543.3	543.3	545.7	540.8	543.3	533.6	526.2	516.5	492.1	460.5
67.5°	409.3	409.3	409.3	409.3	406.8	404.4	402.0	394.7	377.6	367.9	333.7
70°	314.3	299.6	299.6	299.6	299.6	302.1	294.8	285.1	280.2	263.1	238.8
72.5°	209.5	214.4	209.5	209.5	204.7	207.1	197.3	192.4	187.6	177.9	163.2
75°	151.0	138.9	143.7	146.2	138.9	143.7	134.0	124.2	124.2	116.9	109.6
77.5°	97.5	95.1	97.5	99.9	97.5	95.1	90.1	85.2	85.2	82.8	75.5
80°	70.7	68.2	68.2	68.2	65.8	68.2	63.4	63.4	58.5	56.1	51.1
82.5°	46.3	46.3	43.8	46.3	43.8	46.3	39.0	39.0	39.0	36.5	31.7
85°	31.7	26.8	26.8	29.3	24.4	29.3	26.8	24.4	22.0	22.0	19.5
87.5°	14.6	17.0	14.6	17.0	14.6	14.6	17.0	14.6	14.6	9.7	9.7
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2
2.5°	4964.8	4967.2	4967.2	4977.1	4981.9	4984.3	4984.3	5003.8	4996.5	5001.4	5006.2
5°	4894.2	4908.8	4913.7	4913.7	4940.5	4950.2	4959.9	4981.9	4984.3	4998.9	5016.0
7.5°	4825.9	4843.0	4852.8	4874.7	4891.7	4908.8	4938.0	4952.7	4967.2	4986.8	5008.6
10°	4760.2	4779.7	4799.2	4816.2	4843.0	4865.0	4884.4	4918.5	4935.6	4962.4	4991.6
12.5°	4696.9	4723.7	4740.7	4769.9	4799.2	4818.6	4847.9	4879.6	4906.4	4933.1	4967.2
15°	4640.8	4672.5	4692.0	4723.7	4755.4	4782.1	4813.8	4852.8	4872.3	4904.0	4935.6
17.5°	4579.9	4614.1	4638.4	4667.6	4706.6	4735.8	4762.7	4801.6	4825.9	4860.0	4896.6
20°	4516.6	4550.7	4579.9	4609.2	4648.2	4677.3	4709.0	4748.0	4774.8	4808.9	4838.2
22.5°	4441.1	4472.8	4504.4	4538.5	4577.5	4601.8	4638.4	4672.5	4701.7	4733.4	4762.7
25°	4343.6	4382.6	4407.0	4438.6	4470.3	4497.0	4536.1	4570.1	4594.5	4623.8	4650.6
27.5°	4229.1	4258.4	4277.9	4304.6	4336.3	4360.7	4389.9	4424.0	4448.4	4475.2	4494.6
30°	4034.2	4061.1	4078.1	4097.6	4129.2	4151.2	4175.6	4207.2	4224.2	4243.8	4260.8
32.5°	3778.4	3800.4	3810.1	3824.7	3846.7	3868.5	3888.1	3914.9	3922.2	3934.3	3934.3
35°	3408.2	3413.0	3410.6	3415.5	3425.2	3437.4	3454.4	3471.5	3481.2	3481.2	3474.0
37.5°	2974.5	2945.3	2913.6	2889.3	2881.9	2877.0	2886.9	2894.1	2903.9	2908.7	2896.6
40°	2523.9	2458.1	2387.4	2324.0	2280.2	2260.8	2253.4	2258.3	2258.3	2275.3	2275.3
42.5°	2136.5	2034.1	1929.5	1834.4	1771.0	1722.4	1700.4	1700.4	1702.8	1715.1	1722.4
45°	1814.9	1685.8	1564.0	1459.3	1371.5	1308.2	1279.0	1271.7	1269.3	1274.1	1291.1
47.5°	1568.9	1434.9	1308.2	1179.1	1086.6	1023.2	996.4	986.6	976.9	986.6	989.1
50°	1376.4	1237.6	1103.6	974.5	877.0	820.9	786.8	772.2	769.8	769.8	774.7
52.5°	1201.0	1071.9	938.0	806.4	704.0	650.5	618.8	611.5	601.7	611.5	611.5
55°	1035.3	906.3	774.7	650.5	565.1	509.2	479.9	470.2	465.3	472.6	472.6
57.5°	855.1	745.4	623.7	511.6	426.4	387.4	365.4	353.3	350.8	355.7	350.8
60°	701.6	609.1	504.3	402.0	336.2	294.8	277.8	272.8	267.9	272.8	272.8
62.5°	555.4	477.5	392.2	314.3	258.2	229.0	209.5	209.5	207.1	207.1	209.5
65°	411.7	350.8	289.9	224.1	180.3	158.3	143.7	143.7	141.3	143.7	141.3
67.5°	299.6	258.2	209.5	163.2	129.2	116.9	107.2	99.9	104.8	99.9	97.5
70°	219.3	185.1	151.0	124.2	99.9	87.7	80.4	77.9	73.1	73.1	73.1
72.5°	146.2	124.2	102.3	80.4	65.8	53.5	51.1	46.3	41.4	43.8	48.7
75°	97.5	82.8	73.1	58.5	43.8	43.8	29.3	29.3	24.4	29.3	22.0
77.5°	68.2	56.1	43.8	36.5	29.3	26.8	19.5	19.5	17.0	17.0	17.0
80°	48.7	41.4	31.7	26.8	19.5	19.5	17.0	14.6	12.1	12.1	14.6
82.5°	29.3	22.0	22.0	19.5	12.1	9.7	7.3	9.7	4.9	4.9	4.9
85°	17.0	14.6	12.1	7.3	4.9	4.9	2.4	0.0	2.4	2.4	0.0
87.5°	9.7	4.9	4.9	2.4	0.0	2.4	2.4	0.0	0.0	0.0	4.9
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°	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2
2.5°	5018.5	5016.0	5020.9	5020.9	5035.5	5033.0	5040.3	5040.3	5035.5	5037.9	5047.6
5°	5035.5	5042.8	5057.4	5069.6	5091.5	5101.3	5113.4	5125.7	5128.1	5135.4	5142.7
7.5°	5035.5	5059.9	5076.9	5098.8	5128.1	5145.1	5171.9	5193.8	5203.6	5215.7	5230.3
10°	5025.7	5050.1	5081.7	5106.1	5142.7	5169.5	5196.3	5230.3	5245.0	5264.4	5284.0
12.5°	5006.2	5033.0	5067.1	5098.8	5140.2	5164.6	5198.7	5230.3	5252.3	5279.1	5301.0
15°	4977.1	5008.6	5040.3	5072.0	5115.8	5145.1	5176.8	5213.3	5235.3	5264.4	5284.0
17.5°	4930.7	4964.8	4994.1	5023.3	5064.7	5098.8	5128.1	5162.2	5184.1	5208.5	5235.3
20°	4874.7	4906.4	4938.0	4962.4	5003.8	5033.0	5064.7	5096.4	5113.4	5118.3	5159.8
22.5°	4804.1	4825.9	4850.3	4889.3	4913.7	4940.5	4969.7	4998.9	5016.0	5042.8	5057.4
25°	4687.1	4709.0	4735.8	4752.8	4782.1	4804.1	4833.3	4865.0	4874.7	4894.2	4908.8
27.5°	4523.9	4536.1	4548.3	4562.8	4579.9	4592.1	4609.2	4623.8	4633.5	4643.2	4653.0
30°	4265.6	4265.6	4265.6	4255.9	4263.2	4270.5	4272.9	4270.5	4270.5	4268.1	4268.1
32.5°	3924.6	3905.1	3883.2	3863.7	3856.4	3846.7	3841.8	3834.4	3822.3	3815.0	3817.4
35°	3464.1	3420.3	3393.5	3369.2	3349.7	3335.1	3327.8	3320.4	3318.0	3308.3	3298.5
37.5°	2889.3	2857.6	2838.1	2823.5	2806.4	2791.8	2794.2	2796.7	2803.9	2799.1	2801.5
40°	2280.2	2272.9	2280.2	2263.2	2258.3	2263.2	2275.3	2292.4	2302.2	2311.9	2328.9
42.5°	1734.5	1746.7	1763.8	1763.8	1771.0	1780.9	1795.4	1822.3	1836.8	1853.8	1873.4
45°	1305.8	1320.4	1342.4	1349.6	1354.5	1366.6	1383.8	1405.6	1415.4	1430.0	1447.0
47.5°	1006.1	1015.9	1028.0	1040.2	1052.4	1057.3	1074.3	1074.3	1086.6	1096.3	1101.1
50°	784.4	794.2	803.9	811.2	816.1	823.4	828.3	835.6	838.0	842.9	845.3
52.5°	613.9	626.1	626.1	630.9	638.2	645.6	643.2	645.6	648.0	648.0	655.3
55°	479.9	479.9	487.2	487.2	492.1	489.6	492.1	492.1	492.1	492.1	494.5
57.5°	358.1	360.6	367.9	363.0	360.6	365.4	360.6	365.4	363.0	367.9	360.6
60°	275.2	275.2	277.8	277.8	280.2	280.2	280.2	277.8	277.8	275.2	275.2
62.5°	207.1	209.5	212.0	209.5	209.5	209.5	207.1	207.1	204.7	202.2	202.2
65°	138.9	136.5	141.3	136.5	138.9	138.9	136.5	138.9	131.6	134.0	131.6
67.5°	99.9	97.5	95.1	97.5	95.1	92.6	92.6	95.1	97.5	90.1	90.1
70°	65.8	68.2	65.8	68.2	70.7	70.7	68.2	65.8	68.2	63.4	65.8
72.5°	41.4	41.4	41.4	41.4	41.4	43.8	43.8	43.8	39.0	39.0	36.5
75°	19.5	26.8	22.0	19.5	26.8	26.8	24.4	24.4	22.0	22.0	22.0
77.5°	19.5	14.6	14.6	14.6	14.6	14.6	14.6	14.6	12.1	14.6	12.1
80°	9.7	9.7	9.7	7.3	9.7	9.7	12.1	9.7	9.7	7.3	12.1
82.5°	4.9	4.9	4.9	0.0	2.4	4.9	4.9	2.4	4.9	4.9	2.4
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: P248688

CATALOG NUMBER: LD8B80D010 ER8B80850 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2
2.5°	5045.2	5042.8	5045.2	5047.6	5045.2	5042.8	5045.2	5047.6	5037.9	5035.5	5040.3
5°	5152.4	5152.4	5157.2	5159.8	5157.2	5152.4	5152.4	5142.7	5135.4	5128.1	5125.7
7.5°	5245.0	5249.9	5254.7	5257.1	5254.7	5249.9	5245.0	5230.3	5215.7	5203.6	5193.8
10°	5301.0	5308.4	5318.1	5322.9	5318.1	5308.4	5301.0	5284.0	5264.4	5245.0	5230.3
12.5°	5325.4	5332.7	5344.9	5342.5	5344.9	5332.7	5325.4	5301.0	5279.1	5252.3	5230.3
15°	5308.4	5318.1	5330.2	5335.1	5330.2	5318.1	5308.4	5284.0	5264.4	5235.3	5213.3
17.5°	5254.7	5269.4	5276.7	5284.0	5276.7	5269.4	5254.7	5235.3	5208.5	5184.1	5162.2
20°	5181.6	5191.4	5201.2	5203.6	5201.2	5191.4	5181.6	5159.8	5118.3	5113.4	5096.4
22.5°	5076.9	5084.2	5106.1	5098.8	5106.1	5084.2	5076.9	5057.4	5042.8	5016.0	4998.9
25°	4925.8	4933.1	4935.6	4938.0	4935.6	4933.1	4925.8	4908.8	4894.2	4874.7	4865.0
27.5°	4665.2	4665.2	4670.0	4672.5	4670.0	4665.2	4665.2	4653.0	4643.2	4633.5	4623.8
30°	4270.5	4270.5	4270.5	4282.8	4270.5	4270.5	4270.5	4268.1	4268.1	4270.5	4270.5
32.5°	3815.0	3810.1	3805.3	3810.1	3805.3	3810.1	3815.0	3817.4	3815.0	3822.3	3834.4
35°	3298.5	3296.1	3303.4	3293.7	3303.4	3296.1	3298.5	3298.5	3308.3	3318.0	3320.4
37.5°	2803.9	2799.1	2808.9	2799.1	2808.9	2799.1	2803.9	2801.5	2799.1	2803.9	2796.7
40°	2333.9	2338.7	2338.7	2358.2	2338.7	2338.7	2333.9	2328.9	2311.9	2302.2	2292.4
42.5°	1883.1	1897.8	1892.9	1907.5	1892.9	1897.8	1883.1	1873.4	1853.8	1836.8	1822.3
45°	1456.8	1466.6	1466.6	1471.4	1466.6	1466.6	1456.8	1447.0	1430.0	1415.4	1405.6
47.5°	1118.1	1118.1	1118.1	1120.7	1118.1	1118.1	1118.1	1101.1	1096.3	1086.6	1074.3
50°	850.2	852.6	855.1	857.5	855.1	852.6	850.2	845.3	842.9	838.0	835.6
52.5°	652.9	655.3	650.5	655.3	650.5	655.3	652.9	655.3	648.0	648.0	645.6
55°	494.5	492.1	494.5	497.0	494.5	492.1	494.5	494.5	492.1	492.1	492.1
57.5°	363.0	358.1	358.1	358.1	358.1	358.1	363.0	360.6	367.9	363.0	365.4
60°	270.4	272.8	272.8	275.2	272.8	272.8	270.4	275.2	275.2	277.8	277.8
62.5°	199.7	207.1	202.2	207.1	202.2	207.1	199.7	202.2	202.2	204.7	207.1
65°	129.2	129.2	129.2	131.6	129.2	129.2	129.2	131.6	134.0	131.6	138.9
67.5°	87.7	90.1	95.1	92.6	95.1	90.1	87.7	90.1	90.1	97.5	95.1
70°	70.7	63.4	63.4	70.7	63.4	63.4	70.7	65.8	63.4	68.2	65.8
72.5°	41.4	36.5	41.4	41.4	41.4	36.5	41.4	36.5	39.0	39.0	43.8
75°	22.0	19.5	17.0	24.4	17.0	19.5	22.0	22.0	22.0	22.0	24.4
77.5°	14.6	12.1	17.0	17.0	17.0	12.1	14.6	12.1	14.6	12.1	14.6
80°	7.3	9.7	7.3	12.1	7.3	9.7	7.3	12.1	7.3	9.7	9.7
82.5°	2.4	4.9	4.9	4.9	4.9	4.9	2.4	2.4	4.9	4.9	2.4
85°	0.0	4.9	2.4	2.4	2.4	4.9	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	0.0	0.0	2.4	0.0	0.0	2.4	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: P248688

CATALOG NUMBER: LD8B80D010 ER8B80850 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2
2.5°	5040.3	5033.0	5035.5	5020.9	5020.9	5016.0	5018.5	5006.2	5001.4	4996.5	5003.8
5°	5113.4	5101.3	5091.5	5069.6	5057.4	5042.8	5035.5	5016.0	4998.9	4984.3	4981.9
7.5°	5171.9	5145.1	5128.1	5098.8	5076.9	5059.9	5035.5	5008.6	4986.8	4967.2	4952.7
10°	5196.3	5169.5	5142.7	5106.1	5081.7	5050.1	5025.7	4991.6	4962.4	4935.6	4918.5
12.5°	5198.7	5164.6	5140.2	5098.8	5067.1	5033.0	5006.2	4967.2	4933.1	4906.4	4879.6
15°	5176.8	5145.1	5115.8	5072.0	5040.3	5008.6	4977.1	4935.6	4904.0	4872.3	4852.8
17.5°	5128.1	5098.8	5064.7	5023.3	4994.1	4964.8	4930.7	4896.6	4860.0	4825.9	4801.6
20°	5064.7	5033.0	5003.8	4962.4	4938.0	4906.4	4874.7	4838.2	4808.9	4774.8	4748.0
22.5°	4969.7	4940.5	4913.7	4889.3	4850.3	4825.9	4804.1	4762.7	4733.4	4701.7	4672.5
25°	4833.3	4804.1	4782.1	4752.8	4735.8	4709.0	4687.1	4650.6	4623.8	4594.5	4570.1
27.5°	4609.2	4592.1	4579.9	4562.8	4548.3	4536.1	4523.9	4494.6	4475.2	4448.4	4424.0
30°	4272.9	4270.5	4263.2	4255.9	4265.6	4265.6	4265.6	4260.8	4243.8	4224.2	4207.2
32.5°	3841.8	3846.7	3856.4	3863.7	3883.2	3905.1	3924.6	3934.3	3934.3	3922.2	3914.9
35°	3327.8	3335.1	3349.7	3369.2	3393.5	3420.3	3464.1	3474.0	3481.2	3481.2	3471.5
37.5°	2794.2	2791.8	2806.4	2823.5	2838.1	2857.6	2889.3	2896.6	2908.7	2903.9	2894.1
40°	2275.3	2263.2	2258.3	2263.2	2280.2	2272.9	2280.2	2275.3	2275.3	2258.3	2258.3
42.5°	1795.4	1780.9	1771.0	1763.8	1763.8	1746.7	1734.5	1722.4	1715.1	1702.8	1700.4
45°	1383.8	1366.6	1354.5	1349.6	1342.4	1320.4	1305.8	1291.1	1274.1	1269.3	1271.7
47.5°	1074.3	1057.3	1052.4	1040.2	1028.0	1015.9	1006.1	989.1	986.6	976.9	986.6
50°	828.3	823.4	816.1	811.2	803.9	794.2	784.4	774.7	769.8	769.8	772.2
52.5°	643.2	645.6	638.2	630.9	626.1	626.1	613.9	611.5	611.5	601.7	611.5
55°	492.1	489.6	492.1	487.2	487.2	479.9	479.9	472.6	472.6	465.3	470.2
57.5°	360.6	365.4	360.6	363.0	367.9	360.6	358.1	350.8	355.7	350.8	353.3
60°	280.2	280.2	280.2	277.8	277.8	275.2	275.2	272.8	272.8	267.9	272.8
62.5°	207.1	209.5	209.5	209.5	212.0	209.5	207.1	209.5	207.1	207.1	209.5
65°	136.5	138.9	138.9	136.5	141.3	136.5	138.9	141.3	143.7	141.3	143.7
67.5°	92.6	92.6	95.1	97.5	95.1	97.5	99.9	97.5	99.9	104.8	99.9
70°	68.2	70.7	70.7	68.2	65.8	68.2	65.8	73.1	73.1	73.1	77.9
72.5°	43.8	43.8	41.4	41.4	41.4	41.4	41.4	48.7	43.8	41.4	46.3
75°	24.4	26.8	26.8	19.5	22.0	26.8	19.5	22.0	29.3	24.4	29.3
77.5°	14.6	14.6	14.6	14.6	14.6	14.6	19.5	17.0	17.0	17.0	19.5
80°	12.1	9.7	9.7	7.3	9.7	9.7	9.7	14.6	12.1	12.1	14.6
82.5°	4.9	4.9	2.4	0.0	4.9	4.9	4.9	4.9	4.9	4.9	9.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	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: P248688

CATALOG NUMBER: LD8B80D010 ER8B80850 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2
2.5°	4984.3	4984.3	4981.9	4977.1	4967.2	4967.2	4964.8	4957.5	4952.7	4950.2	4950.2
5°	4959.9	4950.2	4940.5	4913.7	4913.7	4908.8	4894.2	4884.4	4879.6	4867.4	4862.5
7.5°	4938.0	4908.8	4891.7	4874.7	4852.8	4843.0	4825.9	4818.6	4801.6	4789.4	4782.1
10°	4884.4	4865.0	4843.0	4816.2	4799.2	4779.7	4760.2	4745.6	4723.7	4711.4	4701.7
12.5°	4847.9	4818.6	4799.2	4769.9	4740.7	4723.7	4696.9	4679.8	4657.9	4633.5	4618.9
15°	4813.8	4782.1	4755.4	4723.7	4692.0	4672.5	4640.8	4621.4	4589.7	4565.3	4548.3
17.5°	4762.7	4735.8	4706.6	4667.6	4638.4	4614.1	4579.9	4555.6	4526.3	4494.6	4477.6
20°	4709.0	4677.3	4648.2	4609.2	4579.9	4550.7	4516.6	4489.8	4455.6	4426.5	4407.0
22.5°	4638.4	4601.8	4577.5	4538.5	4504.4	4472.8	4441.1	4409.4	4377.7	4353.4	4331.4
25°	4536.1	4497.0	4470.3	4438.6	4407.0	4382.6	4343.6	4324.2	4292.5	4270.5	4248.6
27.5°	4389.9	4360.7	4336.3	4304.6	4277.9	4258.4	4229.1	4209.7	4182.8	4163.3	4146.3
30°	4175.6	4151.2	4129.2	4097.6	4078.1	4061.1	4034.2	4017.1	3997.7	3975.7	3970.9
32.5°	3888.1	3868.5	3846.7	3824.7	3810.1	3800.4	3778.4	3768.7	3749.2	3737.0	3724.8
35°	3454.4	3437.4	3425.2	3415.5	3410.6	3413.0	3408.2	3417.9	3422.7	3420.3	3422.7
37.5°	2886.9	2877.0	2881.9	2889.3	2913.6	2945.3	2974.5	3018.3	3047.6	3076.9	3103.7
40°	2253.4	2260.8	2280.2	2324.0	2387.4	2458.1	2523.9	2606.7	2689.5	2748.0	2801.5
42.5°	1700.4	1722.4	1771.0	1834.4	1929.5	2034.1	2136.5	2258.3	2358.2	2455.6	2523.9
45°	1279.0	1308.2	1371.5	1459.3	1564.0	1685.8	1814.9	1951.3	2070.7	2170.6	2246.1
47.5°	996.4	1023.2	1086.6	1179.1	1308.2	1434.9	1568.9	1710.2	1834.4	1931.9	1997.6
50°	786.8	820.9	877.0	974.5	1103.6	1237.6	1376.4	1515.2	1632.2	1715.1	1773.5
52.5°	618.8	650.5	704.0	806.4	938.0	1071.9	1201.0	1337.4	1439.7	1520.1	1559.1
55°	479.9	509.2	565.1	650.5	774.7	906.3	1035.3	1152.3	1247.3	1305.8	1342.4
57.5°	365.4	387.4	426.4	511.6	623.7	745.4	855.1	972.0	1045.1	1086.6	1110.8
60°	277.8	294.8	336.2	402.0	504.3	609.1	701.6	789.3	847.8	881.9	906.3
62.5°	209.5	229.0	258.2	314.3	392.2	477.5	555.4	621.2	669.9	691.9	708.9
65°	143.7	158.3	180.3	224.1	289.9	350.8	411.7	460.5	492.1	516.5	526.2
67.5°	107.2	116.9	129.2	163.2	209.5	258.2	299.6	333.7	367.9	377.6	394.7
70°	80.4	87.7	99.9	124.2	151.0	185.1	219.3	238.8	263.1	280.2	285.1
72.5°	51.1	53.5	65.8	80.4	102.3	124.2	146.2	163.2	177.9	187.6	192.4
75°	29.3	43.8	43.8	58.5	73.1	82.8	97.5	109.6	116.9	124.2	124.2
77.5°	19.5	26.8	29.3	36.5	43.8	56.1	68.2	75.5	82.8	85.2	85.2
80°	17.0	19.5	19.5	26.8	31.7	41.4	48.7	51.1	56.1	58.5	63.4
82.5°	7.3	9.7	12.1	19.5	22.0	22.0	29.3	31.7	36.5	39.0	39.0
85°	2.4	4.9	4.9	7.3	12.1	14.6	17.0	19.5	22.0	22.0	24.4
87.5°	2.4	2.4	0.0	2.4	4.9	4.9	9.7	9.7	9.7	14.6	14.6
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: P248688

CATALOG NUMBER: LD8B80D010 ER8B80850 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2	4989.2
2.5°	4945.4	4947.8	4938.0	4935.6	4930.7	4933.1	4938.0
5°	4855.2	4857.6	4847.9	4838.2	4838.2	4835.7	4838.2
7.5°	4769.9	4772.4	4757.8	4752.8	4743.1	4745.6	4745.6
10°	4684.7	4684.7	4662.8	4660.3	4653.0	4650.6	4650.6
12.5°	4601.8	4594.5	4577.5	4567.7	4572.7	4558.0	4558.0
15°	4528.7	4516.6	4494.6	4487.3	4475.2	4470.3	4470.3
17.5°	4453.2	4443.5	4424.0	4409.4	4394.8	4392.4	4394.8
20°	4380.1	4370.4	4346.0	4336.3	4324.2	4324.2	4319.3
22.5°	4307.0	4297.3	4275.4	4268.1	4251.1	4251.1	4253.5
25°	4231.5	4224.2	4199.8	4195.0	4192.6	4182.8	4187.7
27.5°	4129.2	4124.3	4104.9	4097.6	4087.8	4085.4	4090.2
30°	3941.6	3934.3	3919.8	3912.5	3895.4	3897.8	3902.6
32.5°	3707.8	3698.1	3678.5	3671.2	3656.7	3651.7	3654.2
35°	3415.5	3408.2	3391.1	3391.1	3376.5	3371.6	3376.5
37.5°	3118.3	3125.5	3118.3	3125.5	3118.3	3115.8	3118.3
40°	2838.1	2864.9	2869.7	2896.6	2886.9	2901.4	2899.0
42.5°	2570.1	2613.9	2631.1	2652.9	2648.1	2657.8	2665.2
45°	2299.7	2336.3	2353.3	2367.9	2370.4	2375.3	2377.7
47.5°	2043.9	2073.1	2075.6	2092.6	2090.2	2090.2	2097.5
50°	1805.2	1824.7	1829.5	1841.7	1832.0	1827.1	1829.5
52.5°	1583.5	1603.0	1598.1	1603.0	1590.8	1585.9	1588.3
55°	1356.9	1366.6	1366.6	1366.6	1352.1	1352.1	1352.1
57.5°	1125.5	1128.0	1123.1	1125.5	1123.1	1108.4	1106.0
60°	913.6	913.6	911.1	913.6	906.3	898.9	898.9
62.5°	713.7	718.7	728.4	718.7	713.7	718.7	711.3
65°	533.6	543.3	540.8	545.7	543.3	543.3	538.4
67.5°	402.0	404.4	406.8	409.3	409.3	409.3	409.3
70°	294.8	302.1	299.6	299.6	299.6	299.6	314.3
72.5°	197.3	207.1	204.7	209.5	209.5	214.4	209.5
75°	134.0	143.7	138.9	146.2	143.7	138.9	151.0
77.5°	90.1	95.1	97.5	99.9	97.5	95.1	97.5
80°	63.4	68.2	65.8	68.2	68.2	68.2	70.7
82.5°	39.0	46.3	43.8	46.3	43.8	46.3	46.3
85°	26.8	29.3	24.4	29.3	26.8	26.8	31.7
87.5°	17.0	14.6	14.6	17.0	14.6	17.0	14.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)