

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: P248679

Luminaire Tested: **LD8B80D010 ER8B80840 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248679
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 ER8B80840 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8243.0 lumens
Efficiency: N/A
Efficacy: 110.8 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

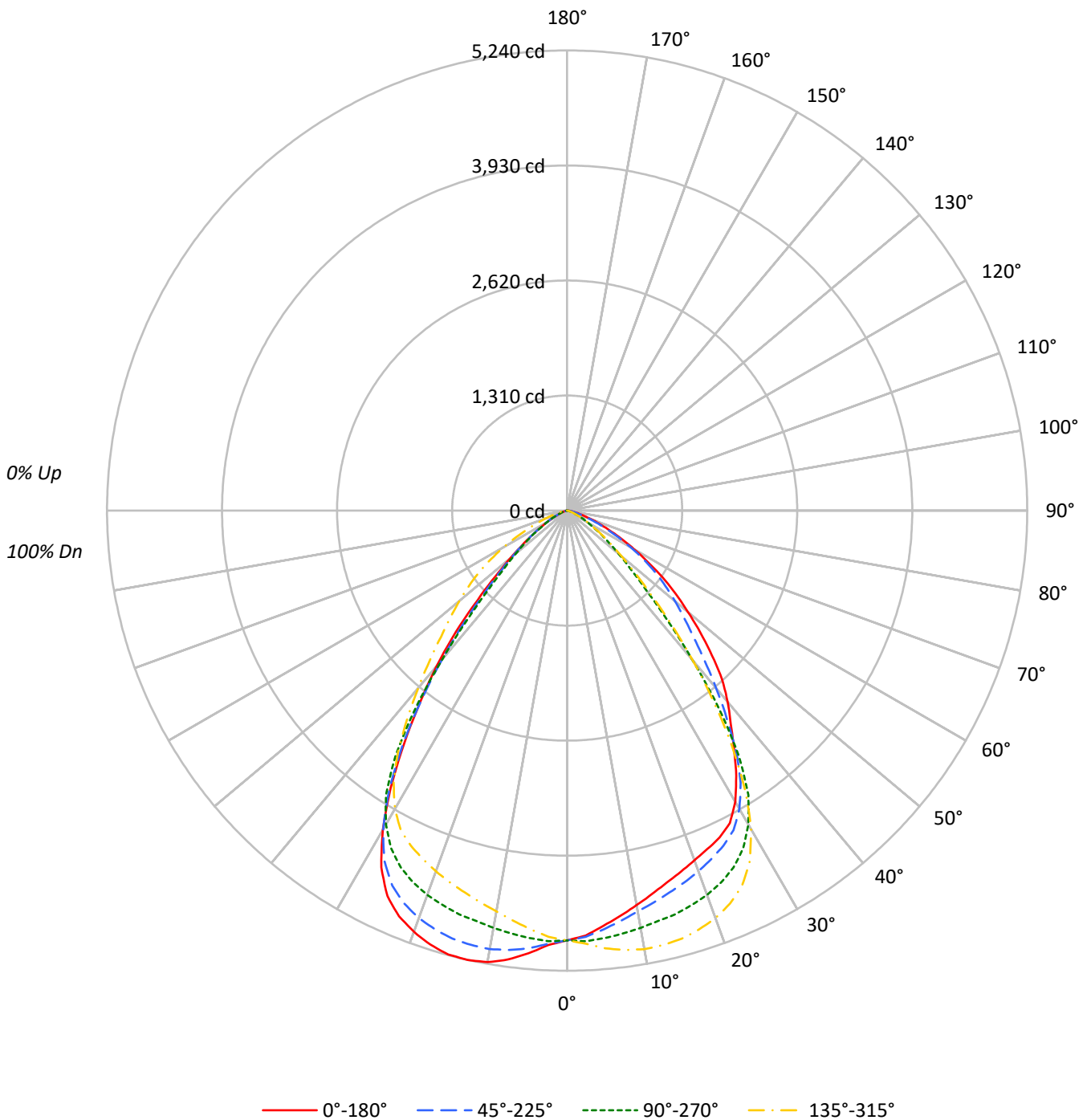
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	150901	150901	150901	150901
5°	146893	151254	156656	151254
10°	142830	151059	163477	151059
15°	139974	151952	167056	151952
20°	139022	152824	167486	152824
25°	139754	152516	164792	152516
30°	136299	146935	149573	146935
35°	124670	128178	121613	128178
40°	114462	89162	93107	89162
45°	101701	54394	62937	54394
50°	86082	36335	40350	36335
55°	71298	24795	26203	24795
60°	54377	16504	16652	16504
65°	38533	10281	9412	10281
70°	27787	6888	6248	6888
75°	17645	3419	2848	3419
80°	12306	2557	2113	2557
85°	11003	0	849	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.8	5.7
10°-20°	1348.8	16.4
20°-30°	2042.4	24.8
30°-40°	2047.0	24.8
40°-50°	1285.4	15.6
50°-60°	685.0	8.3
60°-70°	281.7	3.4
70°-80°	74.4	0.9
80°-90°	12.6	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°	3857.0	46.8
0°-40°	5903.9	71.6
0°-60°	7874.3	95.5
0°-90°	8243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8243.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4894	4894	4894	4894	4894	
5°	4746	4886	5061	4886	4746	448
15°	4385	4760	5233	4760	4385	1240
25°	4108	4483	4843	4483	4108	1884
35°	3312	3405	3231	3405	3312	2075
45°	2332	1247	1443	1247	2332	1794
55°	1326	461	487	461	1326	1182
65°	528	141	129	141	528	548
75°	148	29	24	29	148	168
85°	31	0	2	0	31	34
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°	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6
2.5°	4843.4	4838.6	4836.3	4841.1	4843.4	4853.0	4850.6	4855.3	4855.3	4857.8	4862.5
5°	4745.5	4743.0	4745.5	4745.5	4755.0	4764.6	4762.2	4769.4	4774.1	4786.1	4790.8
7.5°	4654.7	4654.7	4652.3	4661.8	4666.6	4681.0	4678.5	4690.5	4697.7	4709.6	4726.3
10°	4561.5	4561.5	4563.8	4571.0	4573.5	4594.9	4594.9	4611.6	4621.2	4633.2	4654.7
12.5°	4470.7	4470.7	4485.1	4480.2	4489.8	4506.5	4513.7	4530.4	4544.8	4568.7	4590.2
15°	4384.6	4384.6	4389.5	4401.4	4408.5	4430.1	4442.0	4461.2	4477.9	4501.8	4532.9
17.5°	4310.6	4308.2	4310.6	4324.9	4339.3	4358.4	4367.9	4391.8	4408.5	4439.6	4468.3
20°	4236.5	4241.3	4241.3	4253.2	4262.8	4286.7	4296.2	4322.6	4341.7	4370.3	4403.8
22.5°	4172.0	4169.6	4169.6	4186.4	4193.5	4215.0	4224.5	4248.4	4270.0	4293.9	4324.9
25°	4107.5	4102.7	4112.3	4114.7	4119.4	4143.3	4150.5	4167.2	4188.7	4210.3	4241.3
27.5°	4011.9	4007.2	4009.5	4019.1	4026.2	4045.3	4050.1	4066.9	4083.6	4102.7	4129.0
30°	3827.9	3823.1	3820.8	3837.5	3844.7	3858.9	3866.1	3894.8	3899.6	3921.1	3940.2
32.5°	3584.1	3581.8	3586.6	3600.9	3608.0	3627.2	3636.8	3653.5	3665.4	3677.4	3696.5
35°	3311.8	3307.0	3311.8	3326.2	3326.2	3342.9	3350.1	3357.2	3354.8	3357.2	3352.4
37.5°	3058.6	3056.1	3058.6	3065.6	3058.6	3065.6	3058.6	3044.2	3017.9	2989.2	2960.5
40°	2843.5	2845.8	2831.6	2841.1	2814.7	2810.0	2783.8	2747.9	2695.3	2638.0	2556.8
42.5°	2614.1	2606.9	2597.4	2602.1	2580.7	2563.8	2520.9	2475.5	2408.5	2313.0	2215.0
45°	2332.1	2329.8	2324.9	2322.6	2308.2	2291.5	2255.6	2203.1	2129.0	2031.1	1913.9
47.5°	2057.3	2050.1	2050.1	2052.5	2035.8	2033.4	2004.7	1959.4	1894.9	1799.3	1677.4
50°	1794.4	1792.1	1796.9	1806.4	1794.4	1789.7	1770.6	1739.6	1682.2	1601.0	1486.2
52.5°	1557.9	1555.5	1560.4	1572.3	1567.4	1572.3	1553.2	1529.3	1491.0	1412.1	1311.8
55°	1326.2	1326.2	1326.2	1340.4	1340.4	1340.4	1330.9	1316.6	1280.7	1223.4	1130.3
57.5°	1084.8	1087.2	1101.5	1103.9	1101.5	1106.4	1103.9	1089.5	1065.7	1025.1	953.4
60°	881.7	881.7	888.9	896.1	893.6	896.1	896.1	888.9	865.0	831.6	774.2
62.5°	697.7	704.9	700.1	704.9	714.4	704.9	700.1	695.3	678.6	657.1	609.3
65°	528.1	532.9	532.9	535.2	530.4	532.9	523.3	516.2	506.6	482.7	451.6
67.5°	401.5	401.5	401.5	401.5	399.0	396.7	394.3	387.1	370.4	360.9	327.3
70°	308.2	293.9	293.9	293.9	293.9	296.3	289.2	279.6	274.8	258.1	234.2
72.5°	205.5	210.3	205.5	205.5	200.7	203.1	193.6	188.7	184.0	174.5	160.1
75°	148.1	136.2	140.9	143.4	136.2	140.9	131.4	121.9	121.9	114.7	107.5
77.5°	95.6	93.2	95.6	98.0	95.6	93.2	88.4	83.6	83.6	81.2	74.1
80°	69.3	66.9	66.9	66.9	64.5	66.9	62.2	62.2	57.3	55.0	50.2
82.5°	45.4	45.4	43.0	45.4	43.0	45.4	38.3	38.3	38.3	35.8	31.1
85°	31.1	26.3	26.3	28.7	23.9	28.7	26.3	23.9	21.5	21.5	19.1
87.5°	14.4	16.7	14.4	16.7	14.4	14.4	16.7	14.4	14.4	9.5	9.5
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°	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6
2.5°	4869.7	4872.1	4872.1	4881.7	4886.4	4888.8	4888.8	4908.0	4900.8	4905.6	4910.3
5°	4800.5	4814.7	4819.5	4819.5	4845.8	4855.3	4864.9	4886.4	4888.8	4903.1	4919.9
7.5°	4733.5	4750.2	4759.8	4781.3	4798.0	4814.7	4843.4	4857.8	4872.1	4891.2	4912.7
10°	4669.0	4688.2	4707.2	4724.0	4750.2	4771.7	4790.8	4824.3	4841.1	4867.3	4896.0
12.5°	4606.9	4633.2	4649.9	4678.5	4707.2	4726.3	4755.0	4786.1	4812.4	4838.6	4872.1
15°	4551.9	4583.0	4602.1	4633.2	4664.3	4690.5	4721.6	4759.8	4778.9	4810.0	4841.1
17.5°	4492.1	4525.7	4549.6	4578.2	4616.5	4645.1	4671.4	4709.6	4733.5	4766.9	4802.8
20°	4430.1	4463.5	4492.1	4520.9	4559.1	4587.7	4618.8	4657.1	4683.3	4716.8	4745.5
22.5°	4356.0	4387.1	4418.1	4451.5	4489.8	4513.7	4549.6	4583.0	4611.6	4642.7	4671.4
25°	4260.4	4298.7	4322.6	4353.6	4384.6	4410.9	4449.2	4482.6	4506.5	4535.2	4561.5
27.5°	4148.1	4176.8	4195.9	4222.2	4253.2	4277.1	4305.8	4339.3	4363.2	4389.5	4408.5
30°	3956.9	3983.3	4000.0	4019.1	4050.1	4071.7	4095.6	4126.6	4143.3	4162.5	4179.2
32.5°	3706.0	3727.5	3737.1	3751.4	3773.0	3794.4	3813.6	3839.9	3847.0	3858.9	3858.9
35°	3342.9	3347.6	3345.3	3350.1	3359.6	3371.5	3388.2	3405.0	3414.5	3414.5	3407.4
37.5°	2917.5	2888.9	2857.8	2833.9	2826.7	2821.9	2831.6	2838.6	2848.3	2853.0	2841.1
40°	2475.5	2411.0	2341.7	2279.5	2236.5	2217.4	2210.3	2215.0	2215.0	2231.7	2231.7
42.5°	2095.6	1995.2	1892.5	1799.3	1737.1	1689.4	1667.9	1667.9	1670.2	1682.2	1689.4
45°	1780.2	1653.5	1534.0	1431.3	1345.3	1283.1	1254.5	1247.3	1244.9	1249.7	1266.4
47.5°	1538.8	1407.4	1283.1	1156.5	1065.7	1003.6	977.3	967.7	958.1	967.7	970.1
50°	1350.1	1213.9	1082.5	955.8	860.2	805.2	771.8	757.4	755.0	755.0	759.9
52.5°	1178.0	1051.4	920.0	790.9	690.5	638.0	606.9	599.8	590.2	599.8	599.8
55°	1015.5	888.9	759.9	638.0	554.3	499.4	470.7	461.2	456.4	463.5	463.5
57.5°	838.7	731.1	611.8	501.8	418.2	379.9	358.4	346.5	344.0	348.9	344.0
60°	688.2	597.4	494.6	394.3	329.8	289.2	272.4	267.6	262.8	267.6	267.6
62.5°	544.8	468.4	384.7	308.2	253.3	224.6	205.5	205.5	203.1	203.1	205.5
65°	403.8	344.0	284.3	219.8	176.8	155.3	140.9	140.9	138.6	140.9	138.6
67.5°	293.9	253.3	205.5	160.1	126.7	114.7	105.1	98.0	102.8	98.0	95.6
70°	215.1	181.6	148.1	121.9	98.0	86.1	78.9	76.4	71.7	71.7	71.7
72.5°	143.4	121.9	100.3	78.9	64.5	52.5	50.2	45.4	40.6	43.0	47.8
75°	95.6	81.2	71.7	57.3	43.0	43.0	28.7	28.7	23.9	28.7	21.5
77.5°	66.9	55.0	43.0	35.8	28.7	26.3	19.1	19.1	16.7	16.7	16.7
80°	47.8	40.6	31.1	26.3	19.1	19.1	16.7	14.4	11.9	11.9	14.4
82.5°	28.7	21.5	21.5	19.1	11.9	9.5	7.2	9.5	4.8	4.8	4.8
85°	16.7	14.4	11.9	7.2	4.8	4.8	2.4	0.0	2.4	2.4	0.0
87.5°	9.5	4.8	4.8	2.4	0.0	2.4	2.4	0.0	0.0	0.0	4.8
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°	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6
2.5°	4922.3	4919.9	4924.7	4924.7	4939.0	4936.6	4943.8	4943.8	4939.0	4941.4	4950.9
5°	4939.0	4946.2	4960.5	4972.5	4993.9	5003.6	5015.5	5027.5	5029.8	5037.0	5044.2
7.5°	4939.0	4962.9	4979.7	5001.1	5029.8	5046.5	5072.8	5094.3	5103.9	5115.8	5130.1
10°	4929.4	4953.3	4984.4	5008.3	5044.2	5070.4	5096.7	5130.1	5144.5	5163.6	5182.8
12.5°	4910.3	4936.6	4970.0	5001.1	5041.7	5065.6	5099.1	5130.1	5151.7	5177.9	5199.5
15°	4881.7	4912.7	4943.8	4974.8	5017.8	5046.5	5077.6	5113.4	5135.0	5163.6	5182.8
17.5°	4836.3	4869.7	4898.4	4927.0	4967.7	5001.1	5029.8	5063.3	5084.8	5108.7	5135.0
20°	4781.3	4812.4	4843.4	4867.3	4908.0	4936.6	4967.7	4998.7	5015.5	5020.3	5060.9
22.5°	4712.1	4733.5	4757.4	4795.6	4819.5	4845.8	4874.5	4903.1	4919.9	4946.2	4960.5
25°	4597.3	4618.8	4645.1	4661.8	4690.5	4712.1	4740.7	4771.7	4781.3	4800.5	4814.7
27.5°	4437.3	4449.2	4461.2	4475.4	4492.1	4504.1	4520.9	4535.2	4544.8	4554.3	4563.8
30°	4183.9	4183.9	4183.9	4174.4	4181.5	4188.7	4191.1	4188.7	4188.7	4186.4	4186.4
32.5°	3849.4	3830.3	3808.8	3789.7	3782.5	3773.0	3768.2	3761.0	3749.1	3741.9	3744.3
35°	3397.8	3354.8	3328.5	3304.6	3285.6	3271.2	3264.0	3256.8	3254.5	3244.9	3235.3
37.5°	2833.9	2802.8	2783.8	2769.4	2752.7	2738.3	2740.7	2743.1	2750.2	2745.5	2747.9
40°	2236.5	2229.3	2236.5	2219.8	2215.0	2219.8	2231.7	2248.5	2258.1	2267.6	2284.3
42.5°	1701.3	1713.2	1730.0	1730.0	1737.1	1746.7	1761.0	1787.4	1801.6	1818.3	1837.5
45°	1280.7	1295.1	1316.6	1323.7	1328.5	1340.4	1357.3	1378.7	1388.2	1402.6	1419.3
47.5°	986.9	996.4	1008.3	1020.3	1032.2	1037.0	1053.7	1053.7	1065.7	1075.3	1080.0
50°	769.4	778.9	788.5	795.7	800.5	807.7	812.4	819.6	821.9	826.7	829.1
52.5°	602.1	614.1	614.1	618.8	626.0	633.2	630.8	633.2	635.6	635.6	642.7
55°	470.7	470.7	477.9	477.9	482.7	480.3	482.7	482.7	482.7	482.7	485.1
57.5°	351.2	353.7	360.9	356.0	353.7	358.4	353.7	358.4	356.0	360.9	353.7
60°	270.0	270.0	272.4	272.4	274.8	274.8	274.8	272.4	272.4	270.0	270.0
62.5°	203.1	205.5	207.9	205.5	205.5	205.5	203.1	203.1	200.7	198.3	198.3
65°	136.2	133.9	138.6	133.9	136.2	136.2	133.9	136.2	129.0	131.4	129.0
67.5°	98.0	95.6	93.2	95.6	93.2	90.8	90.8	93.2	95.6	88.4	88.4
70°	64.5	66.9	64.5	66.9	69.3	69.3	66.9	64.5	66.9	62.2	64.5
72.5°	40.6	40.6	40.6	40.6	40.6	43.0	43.0	43.0	38.3	38.3	35.8
75°	19.1	26.3	21.5	19.1	26.3	26.3	23.9	23.9	21.5	21.5	21.5
77.5°	19.1	14.4	14.4	14.4	14.4	14.4	14.4	14.4	11.9	14.4	11.9
80°	9.5	9.5	9.5	7.2	9.5	9.5	11.9	9.5	9.5	7.2	11.9
82.5°	4.8	4.8	4.8	0.0	2.4	4.8	4.8	2.4	4.8	4.8	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: P248679

CATALOG NUMBER: LD8B80D010 ER8B80840 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6
2.5°	4948.6	4946.2	4948.6	4950.9	4948.6	4946.2	4948.6	4950.9	4941.4	4939.0	4943.8
5°	5053.7	5053.7	5058.4	5060.9	5058.4	5053.7	5053.7	5044.2	5037.0	5029.8	5027.5
7.5°	5144.5	5149.3	5154.0	5156.4	5154.0	5149.3	5144.5	5130.1	5115.8	5103.9	5094.3
10°	5199.5	5206.7	5216.2	5220.9	5216.2	5206.7	5199.5	5182.8	5163.6	5144.5	5130.1
12.5°	5223.4	5230.6	5242.5	5240.1	5242.5	5230.6	5223.4	5199.5	5177.9	5151.7	5130.1
15°	5206.7	5216.2	5228.1	5232.9	5228.1	5216.2	5206.7	5182.8	5163.6	5135.0	5113.4
17.5°	5154.0	5168.4	5175.6	5182.8	5175.6	5168.4	5154.0	5135.0	5108.7	5084.8	5063.3
20°	5082.3	5092.0	5101.5	5103.9	5101.5	5092.0	5082.3	5060.9	5020.3	5015.5	4998.7
22.5°	4979.7	4986.8	5008.3	5001.1	5008.3	4986.8	4979.7	4960.5	4946.2	4919.9	4903.1
25°	4831.4	4838.6	4841.1	4843.4	4841.1	4838.6	4831.4	4814.7	4800.5	4781.3	4771.7
27.5°	4575.8	4575.8	4580.6	4583.0	4580.6	4575.8	4575.8	4563.8	4554.3	4544.8	4535.2
30°	4188.7	4188.7	4188.7	4200.7	4188.7	4188.7	4188.7	4186.4	4186.4	4188.7	4188.7
32.5°	3741.9	3737.1	3732.4	3737.1	3732.4	3737.1	3741.9	3744.3	3741.9	3749.1	3761.0
35°	3235.3	3232.9	3240.1	3230.6	3240.1	3232.9	3235.3	3235.3	3244.9	3254.5	3256.8
37.5°	2750.2	2745.5	2755.0	2745.5	2755.0	2745.5	2750.2	2747.9	2745.5	2750.2	2743.1
40°	2289.1	2293.9	2293.9	2313.0	2293.9	2293.9	2289.1	2284.3	2267.6	2258.1	2248.5
42.5°	1847.1	1861.4	1856.6	1871.0	1856.6	1861.4	1847.1	1837.5	1818.3	1801.6	1787.4
45°	1428.9	1438.5	1438.5	1443.2	1438.5	1438.5	1428.9	1419.3	1402.6	1388.2	1378.7
47.5°	1096.7	1096.7	1096.7	1099.2	1096.7	1096.7	1096.7	1080.0	1075.3	1065.7	1053.7
50°	833.9	836.3	838.7	841.1	838.7	836.3	833.9	829.1	826.7	821.9	819.6
52.5°	640.4	642.7	638.0	642.7	638.0	642.7	640.4	642.7	635.6	635.6	633.2
55°	485.1	482.7	485.1	487.4	485.1	482.7	485.1	485.1	482.7	482.7	482.7
57.5°	356.0	351.2	351.2	351.2	351.2	351.2	356.0	353.7	360.9	356.0	358.4
60°	265.3	267.6	267.6	270.0	267.6	267.6	265.3	270.0	270.0	272.4	272.4
62.5°	195.9	203.1	198.3	203.1	198.3	203.1	195.9	198.3	198.3	200.7	203.1
65°	126.7	126.7	126.7	129.0	126.7	126.7	126.7	129.0	131.4	129.0	136.2
67.5°	86.1	88.4	93.2	90.8	93.2	88.4	86.1	88.4	88.4	95.6	93.2
70°	69.3	62.2	62.2	69.3	62.2	62.2	69.3	64.5	62.2	66.9	64.5
72.5°	40.6	35.8	40.6	40.6	40.6	35.8	40.6	35.8	38.3	38.3	43.0
75°	21.5	19.1	16.7	23.9	16.7	19.1	21.5	21.5	21.5	21.5	23.9
77.5°	14.4	11.9	16.7	16.7	16.7	11.9	14.4	11.9	14.4	11.9	14.4
80°	7.2	9.5	7.2	11.9	7.2	9.5	7.2	11.9	7.2	9.5	9.5
82.5°	2.4	4.8	4.8	4.8	4.8	4.8	2.4	2.4	4.8	4.8	2.4
85°	0.0	4.8	2.4	2.4	2.4	4.8	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: P248679

CATALOG NUMBER: LD8B80D010 ER8B80840 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6
2.5°	4943.8	4936.6	4939.0	4924.7	4924.7	4919.9	4922.3	4910.3	4905.6	4900.8	4908.0
5°	5015.5	5003.6	4993.9	4972.5	4960.5	4946.2	4939.0	4919.9	4903.1	4888.8	4886.4
7.5°	5072.8	5046.5	5029.8	5001.1	4979.7	4962.9	4939.0	4912.7	4891.2	4872.1	4857.8
10°	5096.7	5070.4	5044.2	5008.3	4984.4	4953.3	4929.4	4896.0	4867.3	4841.1	4824.3
12.5°	5099.1	5065.6	5041.7	5001.1	4970.0	4936.6	4910.3	4872.1	4838.6	4812.4	4786.1
15°	5077.6	5046.5	5017.8	4974.8	4943.8	4912.7	4881.7	4841.1	4810.0	4778.9	4759.8
17.5°	5029.8	5001.1	4967.7	4927.0	4898.4	4869.7	4836.3	4802.8	4766.9	4733.5	4709.6
20°	4967.7	4936.6	4908.0	4867.3	4843.4	4812.4	4781.3	4745.5	4716.8	4683.3	4657.1
22.5°	4874.5	4845.8	4819.5	4795.6	4757.4	4733.5	4712.1	4671.4	4642.7	4611.6	4583.0
25°	4740.7	4712.1	4690.5	4661.8	4645.1	4618.8	4597.3	4561.5	4535.2	4506.5	4482.6
27.5°	4520.9	4504.1	4492.1	4475.4	4461.2	4449.2	4437.3	4408.5	4389.5	4363.2	4339.3
30°	4191.1	4188.7	4181.5	4174.4	4183.9	4183.9	4183.9	4179.2	4162.5	4143.3	4126.6
32.5°	3768.2	3773.0	3782.5	3789.7	3808.8	3830.3	3849.4	3858.9	3858.9	3847.0	3839.9
35°	3264.0	3271.2	3285.6	3304.6	3328.5	3354.8	3397.8	3407.4	3414.5	3414.5	3405.0
37.5°	2740.7	2738.3	2752.7	2769.4	2783.8	2802.8	2833.9	2841.1	2853.0	2848.3	2838.6
40°	2231.7	2219.8	2215.0	2219.8	2236.5	2229.3	2236.5	2231.7	2231.7	2215.0	2215.0
42.5°	1761.0	1746.7	1737.1	1730.0	1730.0	1713.2	1701.3	1689.4	1682.2	1670.2	1667.9
45°	1357.3	1340.4	1328.5	1323.7	1316.6	1295.1	1280.7	1266.4	1249.7	1244.9	1247.3
47.5°	1053.7	1037.0	1032.2	1020.3	1008.3	996.4	986.9	970.1	967.7	958.1	967.7
50°	812.4	807.7	800.5	795.7	788.5	778.9	769.4	759.9	755.0	755.0	757.4
52.5°	630.8	633.2	626.0	618.8	614.1	614.1	602.1	599.8	599.8	590.2	599.8
55°	482.7	480.3	482.7	477.9	477.9	470.7	470.7	463.5	463.5	456.4	461.2
57.5°	353.7	358.4	353.7	356.0	360.9	353.7	351.2	344.0	348.9	344.0	346.5
60°	274.8	274.8	274.8	272.4	272.4	270.0	270.0	267.6	267.6	262.8	267.6
62.5°	203.1	205.5	205.5	205.5	207.9	205.5	203.1	205.5	203.1	203.1	205.5
65°	133.9	136.2	136.2	133.9	138.6	133.9	136.2	138.6	140.9	138.6	140.9
67.5°	90.8	90.8	93.2	95.6	93.2	95.6	98.0	95.6	98.0	102.8	98.0
70°	66.9	69.3	69.3	66.9	64.5	66.9	64.5	71.7	71.7	71.7	76.4
72.5°	43.0	43.0	40.6	40.6	40.6	40.6	40.6	47.8	43.0	40.6	45.4
75°	23.9	26.3	26.3	19.1	21.5	26.3	19.1	21.5	28.7	23.9	28.7
77.5°	14.4	14.4	14.4	14.4	14.4	14.4	19.1	16.7	16.7	16.7	19.1
80°	11.9	9.5	9.5	7.2	9.5	9.5	9.5	14.4	11.9	11.9	14.4
82.5°	4.8	4.8	2.4	0.0	4.8	4.8	4.8	4.8	4.8	4.8	9.5
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	4.8	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: P248679

CATALOG NUMBER: LD8B80D010 ER8B80840 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6
2.5°	4888.8	4888.8	4886.4	4881.7	4872.1	4872.1	4869.7	4862.5	4857.8	4855.3	4855.3
5°	4864.9	4855.3	4845.8	4819.5	4819.5	4814.7	4800.5	4790.8	4786.1	4774.1	4769.4
7.5°	4843.4	4814.7	4798.0	4781.3	4759.8	4750.2	4733.5	4726.3	4709.6	4697.7	4690.5
10°	4790.8	4771.7	4750.2	4724.0	4707.2	4688.2	4669.0	4654.7	4633.2	4621.2	4611.6
12.5°	4755.0	4726.3	4707.2	4678.5	4649.9	4633.2	4606.9	4590.2	4568.7	4544.8	4530.4
15°	4721.6	4690.5	4664.3	4633.2	4602.1	4583.0	4551.9	4532.9	4501.8	4477.9	4461.2
17.5°	4671.4	4645.1	4616.5	4578.2	4549.6	4525.7	4492.1	4468.3	4439.6	4408.5	4391.8
20°	4618.8	4587.7	4559.1	4520.9	4492.1	4463.5	4430.1	4403.8	4370.3	4341.7	4322.6
22.5°	4549.6	4513.7	4489.8	4451.5	4418.1	4387.1	4356.0	4324.9	4293.9	4270.0	4248.4
25°	4449.2	4410.9	4384.6	4353.6	4322.6	4298.7	4260.4	4241.3	4210.3	4188.7	4167.2
27.5°	4305.8	4277.1	4253.2	4222.2	4195.9	4176.8	4148.1	4129.0	4102.7	4083.6	4066.9
30°	4095.6	4071.7	4050.1	4019.1	4000.0	3983.3	3956.9	3940.2	3921.1	3899.6	3894.8
32.5°	3813.6	3794.4	3773.0	3751.4	3737.1	3727.5	3706.0	3696.5	3677.4	3665.4	3653.5
35°	3388.2	3371.5	3359.6	3350.1	3345.3	3347.6	3342.9	3352.4	3357.2	3354.8	3357.2
37.5°	2831.6	2821.9	2826.7	2833.9	2857.8	2888.9	2917.5	2960.5	2989.2	3017.9	3044.2
40°	2210.3	2217.4	2236.5	2279.5	2341.7	2411.0	2475.5	2556.8	2638.0	2695.3	2747.9
42.5°	1667.9	1689.4	1737.1	1799.3	1892.5	1995.2	2095.6	2215.0	2313.0	2408.5	2475.5
45°	1254.5	1283.1	1345.3	1431.3	1534.0	1653.5	1780.2	1913.9	2031.1	2129.0	2203.1
47.5°	977.3	1003.6	1065.7	1156.5	1283.1	1407.4	1538.8	1677.4	1799.3	1894.9	1959.4
50°	771.8	805.2	860.2	955.8	1082.5	1213.9	1350.1	1486.2	1601.0	1682.2	1739.6
52.5°	606.9	638.0	690.5	790.9	920.0	1051.4	1178.0	1311.8	1412.1	1491.0	1529.3
55°	470.7	499.4	554.3	638.0	759.9	888.9	1015.5	1130.3	1223.4	1280.7	1316.6
57.5°	358.4	379.9	418.2	501.8	611.8	731.1	838.7	953.4	1025.1	1065.7	1089.5
60°	272.4	289.2	329.8	394.3	494.6	597.4	688.2	774.2	831.6	865.0	888.9
62.5°	205.5	224.6	253.3	308.2	384.7	468.4	544.8	609.3	657.1	678.6	695.3
65°	140.9	155.3	176.8	219.8	284.3	344.0	403.8	451.6	482.7	506.6	516.2
67.5°	105.1	114.7	126.7	160.1	205.5	253.3	293.9	327.3	360.9	370.4	387.1
70°	78.9	86.1	98.0	121.9	148.1	181.6	215.1	234.2	258.1	274.8	279.6
72.5°	50.2	52.5	64.5	78.9	100.3	121.9	143.4	160.1	174.5	184.0	188.7
75°	28.7	43.0	43.0	57.3	71.7	81.2	95.6	107.5	114.7	121.9	121.9
77.5°	19.1	26.3	28.7	35.8	43.0	55.0	66.9	74.1	81.2	83.6	83.6
80°	16.7	19.1	19.1	26.3	31.1	40.6	47.8	50.2	55.0	57.3	62.2
82.5°	7.2	9.5	11.9	19.1	21.5	21.5	28.7	31.1	35.8	38.3	38.3
85°	2.4	4.8	4.8	7.2	11.9	14.4	16.7	19.1	21.5	21.5	23.9
87.5°	2.4	2.4	0.0	2.4	4.8	4.8	9.5	9.5	9.5	14.4	14.4
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: P248679

CATALOG NUMBER: LD8B80D010 ER8B80840 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6
2.5°	4850.6	4853.0	4843.4	4841.1	4836.3	4838.6	4843.4
5°	4762.2	4764.6	4755.0	4745.5	4745.5	4743.0	4745.5
7.5°	4678.5	4681.0	4666.6	4661.8	4652.3	4654.7	4654.7
10°	4594.9	4594.9	4573.5	4571.0	4563.8	4561.5	4561.5
12.5°	4513.7	4506.5	4489.8	4480.2	4485.1	4470.7	4470.7
15°	4442.0	4430.1	4408.5	4401.4	4389.5	4384.6	4384.6
17.5°	4367.9	4358.4	4339.3	4324.9	4310.6	4308.2	4310.6
20°	4296.2	4286.7	4262.8	4253.2	4241.3	4241.3	4236.5
22.5°	4224.5	4215.0	4193.5	4186.4	4169.6	4169.6	4172.0
25°	4150.5	4143.3	4119.4	4114.7	4112.3	4102.7	4107.5
27.5°	4050.1	4045.3	4026.2	4019.1	4009.5	4007.2	4011.9
30°	3866.1	3858.9	3844.7	3837.5	3820.8	3823.1	3827.9
32.5°	3636.8	3627.2	3608.0	3600.9	3586.6	3581.8	3584.1
35°	3350.1	3342.9	3326.2	3326.2	3311.8	3307.0	3311.8
37.5°	3058.6	3065.6	3058.6	3065.6	3058.6	3056.1	3058.6
40°	2783.8	2810.0	2814.7	2841.1	2831.6	2845.8	2843.5
42.5°	2520.9	2563.8	2580.7	2602.1	2597.4	2606.9	2614.1
45°	2255.6	2291.5	2308.2	2322.6	2324.9	2329.8	2332.1
47.5°	2004.7	2033.4	2035.8	2052.5	2050.1	2050.1	2057.3
50°	1770.6	1789.7	1794.4	1806.4	1796.9	1792.1	1794.4
52.5°	1553.2	1572.3	1567.4	1572.3	1560.4	1555.5	1557.9
55°	1330.9	1340.4	1340.4	1340.4	1326.2	1326.2	1326.2
57.5°	1103.9	1106.4	1101.5	1103.9	1101.5	1087.2	1084.8
60°	896.1	896.1	893.6	896.1	888.9	881.7	881.7
62.5°	700.1	704.9	714.4	704.9	700.1	704.9	697.7
65°	523.3	532.9	530.4	535.2	532.9	532.9	528.1
67.5°	394.3	396.7	399.0	401.5	401.5	401.5	401.5
70°	289.2	296.3	293.9	293.9	293.9	293.9	308.2
72.5°	193.6	203.1	200.7	205.5	205.5	210.3	205.5
75°	131.4	140.9	136.2	143.4	140.9	136.2	148.1
77.5°	88.4	93.2	95.6	98.0	95.6	93.2	95.6
80°	62.2	66.9	64.5	66.9	66.9	66.9	69.3
82.5°	38.3	45.4	43.0	45.4	43.0	45.4	45.4
85°	26.3	28.7	23.9	28.7	26.3	26.3	31.1
87.5°	16.7	14.4	14.4	16.7	14.4	16.7	14.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)