

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: P248661

Luminaire Tested: **LD8B80D010 ER8B80830 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248661
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 ER8B80830 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7979.0 lumens
Efficiency: N/A
Efficacy: 107.2 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

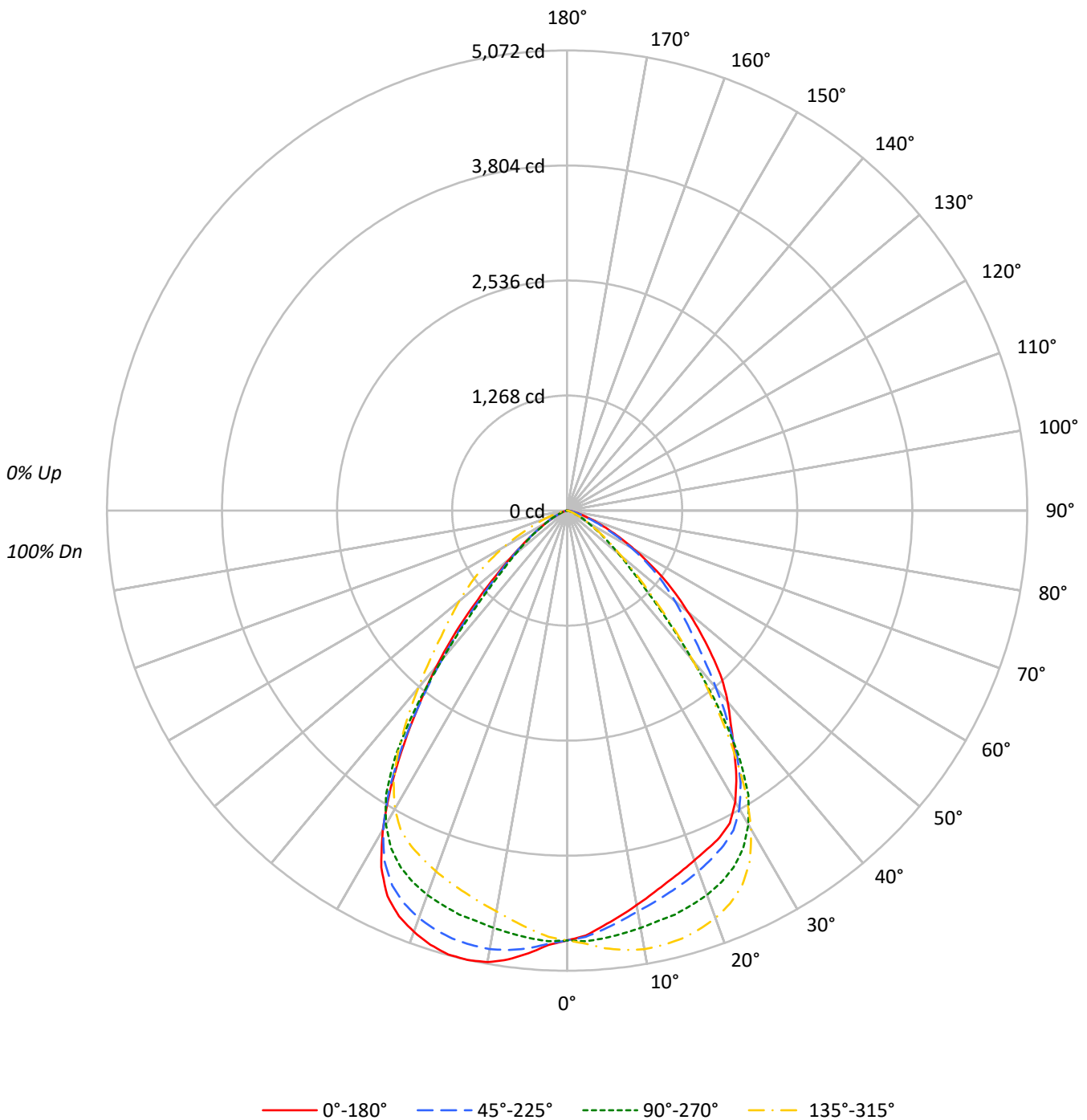
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	146069	146069	146069	146069
5°	142188	146410	151638	146410
10°	138255	146221	158242	146221
15°	135492	147087	161705	147087
20°	134569	147928	162121	147928
25°	135276	147631	159515	147631
30°	131934	142227	144784	142227
35°	120676	124071	117717	124071
40°	110795	86304	90129	86304
45°	98443	52654	60922	52654
50°	83329	35174	39059	35174
55°	69014	23999	25365	23999
60°	52638	15973	16115	15973
65°	37292	9952	9113	9952
70°	26904	6672	6050	6672
75°	17085	3312	2752	3312
80°	11916	2468	2042	2468
85°	10650	0	814	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.9	5.7
10°-20°	1305.6	16.4
20°-30°	1977.0	24.8
30°-40°	1981.4	24.8
40°-50°	1244.2	15.6
50°-60°	663.0	8.3
60°-70°	272.7	3.4
70°-80°	72.0	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°	3733.4	46.8
0°-40°	5714.9	71.6
0°-60°	7622.1	95.5
0°-90°	7979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7979.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4737	4737	4737	4737	4737	
5°	4594	4730	4899	4730	4594	433
15°	4244	4607	5065	4607	4244	1200
25°	3976	4339	4688	4339	3976	1824
35°	3206	3296	3127	3296	3206	2008
45°	2257	1207	1397	1207	2257	1736
55°	1284	446	472	446	1284	1145
65°	511	136	125	136	511	530
75°	143	28	23	28	143	162
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°	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9
2.5°	4688.3	4683.7	4681.4	4686.0	4688.3	4697.6	4695.3	4699.8	4699.8	4702.2	4706.8
5°	4593.5	4591.1	4593.5	4593.5	4602.7	4612.0	4609.7	4616.6	4621.2	4632.8	4637.4
7.5°	4505.6	4505.6	4503.3	4512.5	4517.2	4531.1	4528.7	4540.3	4547.2	4558.8	4574.9
10°	4415.4	4415.4	4417.7	4424.6	4427.0	4447.8	4447.8	4463.9	4473.2	4484.8	4505.6
12.5°	4327.5	4327.5	4341.4	4336.7	4346.0	4362.2	4369.1	4385.3	4399.2	4422.3	4443.2
15°	4244.2	4244.2	4248.9	4260.4	4267.3	4288.2	4299.7	4318.3	4334.5	4357.6	4387.7
17.5°	4172.5	4170.2	4172.5	4186.4	4200.3	4218.8	4228.0	4251.2	4267.3	4297.4	4325.2
20°	4100.8	4105.5	4105.5	4117.0	4126.3	4149.4	4158.6	4184.1	4202.6	4230.3	4262.8
22.5°	4038.4	4036.1	4036.1	4052.3	4059.2	4080.0	4089.2	4112.4	4133.2	4156.3	4186.4
25°	3975.9	3971.3	3980.6	3982.9	3987.4	4010.6	4017.5	4033.7	4054.6	4075.4	4105.5
27.5°	3883.4	3878.8	3881.1	3890.3	3897.3	3915.8	3920.4	3936.6	3952.8	3971.3	3996.8
30°	3705.3	3700.7	3698.4	3714.6	3721.5	3735.4	3742.3	3770.1	3774.7	3795.5	3814.0
32.5°	3469.4	3467.1	3471.7	3485.5	3492.5	3511.1	3520.3	3536.5	3548.0	3559.6	3578.1
35°	3205.7	3201.1	3205.7	3219.6	3219.6	3235.8	3242.8	3249.6	3247.3	3249.6	3245.1
37.5°	2960.6	2958.2	2960.6	2967.5	2960.6	2967.5	2960.6	2946.7	2921.3	2893.5	2865.7
40°	2752.4	2754.7	2740.9	2750.1	2724.6	2720.0	2694.6	2659.9	2609.0	2553.5	2474.9
42.5°	2530.4	2523.4	2514.2	2518.8	2498.0	2481.7	2440.1	2396.2	2331.4	2239.0	2144.0
45°	2257.4	2255.1	2250.5	2248.2	2234.3	2218.1	2183.4	2132.5	2060.8	1966.0	1852.6
47.5°	1991.4	1984.5	1984.5	1986.8	1970.6	1968.3	1940.5	1896.6	1834.2	1741.6	1623.7
50°	1737.0	1734.7	1739.3	1748.6	1737.0	1732.4	1713.9	1683.8	1628.3	1549.7	1438.6
52.5°	1508.0	1505.7	1510.4	1521.9	1517.2	1521.9	1503.4	1480.3	1443.3	1366.9	1269.8
55°	1283.7	1283.7	1283.7	1297.5	1297.5	1297.5	1288.3	1274.5	1239.7	1184.2	1094.1
57.5°	1050.1	1052.4	1066.3	1068.5	1066.3	1070.9	1068.5	1054.6	1031.6	992.3	922.9
60°	853.5	853.5	860.4	867.4	865.0	867.4	867.4	860.4	837.3	804.9	749.4
62.5°	675.4	682.3	677.6	682.3	691.5	682.3	677.6	673.1	656.9	636.0	589.8
65°	511.1	515.8	515.8	518.1	513.4	515.8	506.6	499.6	490.4	467.3	437.2
67.5°	388.6	388.6	388.6	388.6	386.2	384.0	381.7	374.7	358.5	349.3	316.8
70°	298.4	284.5	284.5	284.5	284.5	286.8	279.9	270.7	266.0	249.8	226.7
72.5°	198.9	203.5	198.9	198.9	194.3	196.6	187.4	182.7	178.1	168.9	155.0
75°	143.4	131.9	136.4	138.8	131.9	136.4	127.2	118.0	118.0	111.0	104.1
77.5°	92.5	90.3	92.5	94.8	92.5	90.3	85.6	80.9	80.9	78.6	71.7
80°	67.1	64.7	64.7	64.7	62.5	64.7	60.2	60.2	55.5	53.2	48.6
82.5°	44.0	44.0	41.6	44.0	41.6	44.0	37.0	37.0	37.0	34.7	30.1
85°	30.1	25.4	25.4	27.8	23.1	27.8	25.4	23.1	20.8	20.8	18.5
87.5°	13.9	16.2	13.9	16.2	13.9	13.9	16.2	13.9	13.9	9.2	9.2
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°	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9
2.5°	4713.7	4716.0	4716.0	4725.4	4729.9	4732.2	4732.2	4750.8	4743.8	4748.5	4753.1
5°	4646.7	4660.5	4665.2	4665.2	4690.6	4699.8	4709.1	4729.9	4732.2	4746.1	4762.3
7.5°	4581.9	4598.1	4607.4	4628.2	4644.3	4660.5	4688.3	4702.2	4716.0	4734.6	4755.3
10°	4519.4	4538.0	4556.5	4572.7	4598.1	4618.9	4637.4	4669.8	4686.0	4711.5	4739.2
12.5°	4459.4	4484.8	4501.0	4528.7	4556.5	4574.9	4602.7	4632.8	4658.2	4683.7	4716.0
15°	4406.1	4436.2	4454.7	4484.8	4514.9	4540.3	4570.4	4607.4	4625.9	4656.0	4686.0
17.5°	4348.3	4380.7	4403.9	4431.6	4468.6	4496.3	4521.8	4558.8	4581.9	4614.3	4649.0
20°	4288.2	4320.6	4348.3	4376.1	4413.1	4440.8	4470.9	4507.9	4533.3	4565.7	4593.5
22.5°	4216.5	4246.6	4276.6	4308.9	4346.0	4369.1	4403.9	4436.2	4463.9	4494.0	4521.8
25°	4124.0	4161.0	4184.1	4214.1	4244.2	4269.6	4306.7	4339.0	4362.2	4390.0	4415.4
27.5°	4015.2	4043.0	4061.5	4086.9	4117.0	4140.2	4167.9	4200.3	4223.5	4248.9	4267.3
30°	3830.2	3855.7	3871.9	3890.3	3920.4	3941.3	3964.4	3994.4	4010.6	4029.1	4045.3
32.5°	3587.3	3608.2	3617.4	3631.3	3652.1	3672.9	3691.5	3716.9	3723.8	3735.4	3735.4
35°	3235.8	3240.4	3238.1	3242.8	3252.0	3263.5	3279.7	3295.9	3305.1	3305.1	3298.3
37.5°	2824.1	2796.4	2766.3	2743.2	2736.2	2731.5	2740.9	2747.7	2757.1	2761.6	2750.1
40°	2396.2	2333.8	2266.7	2206.5	2164.9	2146.4	2139.5	2144.0	2144.0	2160.2	2160.2
42.5°	2028.5	1931.3	1831.9	1741.6	1681.5	1635.3	1614.4	1614.4	1616.7	1628.3	1635.3
45°	1723.2	1600.5	1484.9	1385.5	1302.2	1242.0	1214.3	1207.4	1205.1	1209.6	1225.8
47.5°	1489.5	1362.3	1242.0	1119.5	1031.6	971.4	946.0	936.7	927.5	936.7	939.1
50°	1306.8	1175.0	1047.8	925.2	832.6	779.4	747.1	733.2	730.9	730.9	735.5
52.5°	1140.2	1017.7	890.5	765.6	668.4	617.6	587.5	580.5	571.3	580.5	580.5
55°	983.0	860.4	735.5	617.6	536.6	483.4	455.6	446.4	441.7	448.7	448.7
57.5°	811.9	707.7	592.2	485.7	404.8	367.8	346.9	335.4	333.0	337.7	333.0
60°	666.1	578.3	478.8	381.7	319.2	279.9	263.7	259.0	254.4	259.0	259.0
62.5°	527.3	453.4	372.3	298.4	245.1	217.4	198.9	198.9	196.6	196.6	198.9
65°	390.9	333.0	275.2	212.8	171.2	150.3	136.4	136.4	134.1	136.4	134.1
67.5°	284.5	245.1	198.9	155.0	122.6	111.0	101.8	94.8	99.5	94.8	92.5
70°	208.2	175.7	143.4	118.0	94.8	83.3	76.4	74.0	69.4	69.4	69.4
72.5°	138.8	118.0	97.1	76.4	62.5	50.8	48.6	44.0	39.3	41.6	46.3
75°	92.5	78.6	69.4	55.5	41.6	41.6	27.8	27.8	23.1	27.8	20.8
77.5°	64.7	53.2	41.6	34.7	27.8	25.4	18.5	18.5	16.2	16.2	16.2
80°	46.3	39.3	30.1	25.4	18.5	18.5	16.2	13.9	11.5	11.5	13.9
82.5°	27.8	20.8	20.8	18.5	11.5	9.2	6.9	9.2	4.7	4.7	4.7
85°	16.2	13.9	11.5	6.9	4.7	4.7	2.3	0.0	2.3	2.3	0.0
87.5°	9.2	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°	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9
2.5°	4764.7	4762.3	4767.0	4767.0	4780.9	4778.5	4785.4	4785.4	4780.9	4783.1	4792.4
5°	4780.9	4787.8	4801.6	4813.2	4834.0	4843.3	4854.8	4866.4	4868.7	4875.7	4882.6
7.5°	4780.9	4804.0	4820.2	4840.9	4868.7	4884.9	4910.3	4931.2	4940.4	4951.9	4965.8
10°	4771.5	4794.7	4824.8	4847.9	4882.6	4908.1	4933.5	4965.8	4979.7	4998.2	5016.8
12.5°	4753.1	4778.5	4810.9	4840.9	4880.3	4903.4	4935.8	4965.8	4986.7	5012.1	5033.0
15°	4725.4	4755.3	4785.4	4815.5	4857.1	4884.9	4915.0	4949.7	4970.5	4998.2	5016.8
17.5°	4681.4	4713.7	4741.5	4769.2	4808.6	4840.9	4868.7	4901.1	4922.0	4945.1	4970.5
20°	4628.2	4658.2	4688.3	4711.5	4750.8	4778.5	4808.6	4838.7	4854.8	4859.5	4898.8
22.5°	4561.1	4581.9	4605.0	4642.1	4665.2	4690.6	4718.4	4746.1	4762.3	4787.8	4801.6
25°	4450.0	4470.9	4496.3	4512.5	4540.3	4561.1	4588.8	4618.9	4628.2	4646.7	4660.5
27.5°	4295.1	4306.7	4318.3	4332.1	4348.3	4359.9	4376.1	4390.0	4399.2	4408.4	4417.7
30°	4049.9	4049.9	4049.9	4040.7	4047.6	4054.6	4056.9	4054.6	4054.6	4052.3	4052.3
32.5°	3726.1	3707.6	3686.8	3668.3	3661.4	3652.1	3647.5	3640.5	3629.0	3622.1	3624.3
35°	3288.9	3247.3	3221.9	3198.8	3180.3	3166.4	3159.5	3152.5	3150.2	3141.0	3131.7
37.5°	2743.2	2713.1	2694.6	2680.7	2664.5	2650.6	2652.9	2655.3	2662.1	2657.6	2659.9
40°	2164.9	2157.9	2164.9	2148.7	2144.0	2148.7	2160.2	2176.5	2185.7	2195.0	2211.2
42.5°	1646.8	1658.3	1674.6	1674.6	1681.5	1690.8	1704.6	1730.1	1743.9	1760.1	1778.7
45°	1239.7	1253.6	1274.5	1281.3	1286.0	1297.5	1313.8	1334.5	1343.8	1357.7	1373.9
47.5°	955.3	964.5	976.0	987.6	999.1	1003.8	1020.0	1020.0	1031.6	1040.8	1045.4
50°	744.8	754.0	763.2	770.2	774.9	781.8	786.4	793.3	795.6	800.3	802.6
52.5°	582.8	594.4	594.4	599.0	606.0	612.9	610.6	612.9	615.2	615.2	622.1
55°	455.6	455.6	462.6	462.6	467.3	464.9	467.3	467.3	467.3	467.3	469.5
57.5°	340.0	342.3	349.3	344.6	342.3	346.9	342.3	346.9	344.6	349.3	342.3
60°	261.3	261.3	263.7	263.7	266.0	266.0	266.0	263.7	263.7	261.3	261.3
62.5°	196.6	198.9	201.3	198.9	198.9	198.9	196.6	196.6	194.3	191.9	191.9
65°	131.9	129.6	134.1	129.6	131.9	131.9	129.6	131.9	124.9	127.2	124.9
67.5°	94.8	92.5	90.3	92.5	90.3	87.9	87.9	90.3	92.5	85.6	85.6
70°	62.5	64.7	62.5	64.7	67.1	67.1	64.7	62.5	64.7	60.2	62.5
72.5°	39.3	39.3	39.3	39.3	39.3	41.6	41.6	41.6	37.0	37.0	34.7
75°	18.5	25.4	20.8	18.5	25.4	25.4	23.1	23.1	20.8	20.8	20.8
77.5°	18.5	13.9	13.9	13.9	13.9	13.9	13.9	13.9	11.5	13.9	11.5
80°	9.2	9.2	9.2	6.9	9.2	9.2	11.5	9.2	9.2	6.9	11.5
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: P248661

CATALOG NUMBER: LD8B80D010 ER8B80830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9
2.5°	4790.1	4787.8	4790.1	4792.4	4790.1	4787.8	4790.1	4792.4	4783.1	4780.9	4785.4
5°	4891.9	4891.9	4896.4	4898.8	4896.4	4891.9	4891.9	4882.6	4875.7	4868.7	4866.4
7.5°	4979.7	4984.4	4989.0	4991.3	4989.0	4984.4	4979.7	4965.8	4951.9	4940.4	4931.2
10°	5033.0	5039.9	5049.1	5053.7	5049.1	5039.9	5033.0	5016.8	4998.2	4979.7	4965.8
12.5°	5056.1	5063.0	5074.6	5072.3	5074.6	5063.0	5056.1	5033.0	5012.1	4986.7	4965.8
15°	5039.9	5049.1	5060.7	5065.3	5060.7	5049.1	5039.9	5016.8	4998.2	4970.5	4949.7
17.5°	4989.0	5002.9	5009.8	5016.8	5009.8	5002.9	4989.0	4970.5	4945.1	4922.0	4901.1
20°	4919.6	4928.9	4938.1	4940.4	4938.1	4928.9	4919.6	4898.8	4859.5	4854.8	4838.7
22.5°	4820.2	4827.1	4847.9	4840.9	4847.9	4827.1	4820.2	4801.6	4787.8	4762.3	4746.1
25°	4676.7	4683.7	4686.0	4688.3	4686.0	4683.7	4676.7	4660.5	4646.7	4628.2	4618.9
27.5°	4429.3	4429.3	4433.9	4436.2	4433.9	4429.3	4429.3	4417.7	4408.4	4399.2	4390.0
30°	4054.6	4054.6	4054.6	4066.2	4054.6	4054.6	4054.6	4052.3	4052.3	4054.6	4054.6
32.5°	3622.1	3617.4	3612.8	3617.4	3612.8	3617.4	3622.1	3624.3	3622.1	3629.0	3640.5
35°	3131.7	3129.4	3136.3	3127.1	3136.3	3129.4	3131.7	3131.7	3141.0	3150.2	3152.5
37.5°	2662.1	2657.6	2666.8	2657.6	2666.8	2657.6	2662.1	2659.9	2657.6	2662.1	2655.3
40°	2215.8	2220.4	2220.4	2239.0	2220.4	2220.4	2215.8	2211.2	2195.0	2185.7	2176.5
42.5°	1787.9	1801.8	1797.1	1811.0	1797.1	1801.8	1787.9	1778.7	1760.1	1743.9	1730.1
45°	1383.1	1392.4	1392.4	1397.0	1392.4	1392.4	1383.1	1373.9	1357.7	1343.8	1334.5
47.5°	1061.6	1061.6	1061.6	1064.0	1061.6	1061.6	1061.6	1045.4	1040.8	1031.6	1020.0
50°	807.2	809.5	811.9	814.2	811.9	809.5	807.2	802.6	800.3	795.6	793.3
52.5°	619.9	622.1	617.6	622.1	617.6	622.1	619.9	622.1	615.2	615.2	612.9
55°	469.5	467.3	469.5	471.8	469.5	467.3	469.5	469.5	467.3	467.3	467.3
57.5°	344.6	340.0	340.0	340.0	340.0	340.0	344.6	342.3	349.3	344.6	346.9
60°	256.8	259.0	259.0	261.3	259.0	259.0	256.8	261.3	261.3	263.7	263.7
62.5°	189.6	196.6	191.9	196.6	191.9	196.6	189.6	191.9	191.9	194.3	196.6
65°	122.6	122.6	122.6	124.9	122.6	122.6	122.6	124.9	127.2	124.9	131.9
67.5°	83.3	85.6	90.3	87.9	90.3	85.6	83.3	85.6	85.6	92.5	90.3
70°	67.1	60.2	60.2	67.1	60.2	60.2	67.1	62.5	60.2	64.7	62.5
72.5°	39.3	34.7	39.3	39.3	39.3	34.7	39.3	34.7	37.0	37.0	41.6
75°	20.8	18.5	16.2	23.1	16.2	18.5	20.8	20.8	20.8	20.8	23.1
77.5°	13.9	11.5	16.2	16.2	16.2	11.5	13.9	11.5	13.9	11.5	13.9
80°	6.9	9.2	6.9	11.5	6.9	9.2	6.9	11.5	6.9	9.2	9.2
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: P248661

CATALOG NUMBER: LD8B80D010 ER8B80830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9
2.5°	4785.4	4778.5	4780.9	4767.0	4767.0	4762.3	4764.7	4753.1	4748.5	4743.8	4750.8
5°	4854.8	4843.3	4834.0	4813.2	4801.6	4787.8	4780.9	4762.3	4746.1	4732.2	4729.9
7.5°	4910.3	4884.9	4868.7	4840.9	4820.2	4804.0	4780.9	4755.3	4734.6	4716.0	4702.2
10°	4933.5	4908.1	4882.6	4847.9	4824.8	4794.7	4771.5	4739.2	4711.5	4686.0	4669.8
12.5°	4935.8	4903.4	4880.3	4840.9	4810.9	4778.5	4753.1	4716.0	4683.7	4658.2	4632.8
15°	4915.0	4884.9	4857.1	4815.5	4785.4	4755.3	4725.4	4686.0	4656.0	4625.9	4607.4
17.5°	4868.7	4840.9	4808.6	4769.2	4741.5	4713.7	4681.4	4649.0	4614.3	4581.9	4558.8
20°	4808.6	4778.5	4750.8	4711.5	4688.3	4658.2	4628.2	4593.5	4565.7	4533.3	4507.9
22.5°	4718.4	4690.6	4665.2	4642.1	4605.0	4581.9	4561.1	4521.8	4494.0	4463.9	4436.2
25°	4588.8	4561.1	4540.3	4512.5	4496.3	4470.9	4450.0	4415.4	4390.0	4362.2	4339.0
27.5°	4376.1	4359.9	4348.3	4332.1	4318.3	4306.7	4295.1	4267.3	4248.9	4223.5	4200.3
30°	4056.9	4054.6	4047.6	4040.7	4049.9	4049.9	4049.9	4045.3	4029.1	4010.6	3994.4
32.5°	3647.5	3652.1	3661.4	3668.3	3686.8	3707.6	3726.1	3735.4	3735.4	3723.8	3716.9
35°	3159.5	3166.4	3180.3	3198.8	3221.9	3247.3	3288.9	3298.3	3305.1	3305.1	3295.9
37.5°	2652.9	2650.6	2664.5	2680.7	2694.6	2713.1	2743.2	2750.1	2761.6	2757.1	2747.7
40°	2160.2	2148.7	2144.0	2148.7	2164.9	2157.9	2164.9	2160.2	2160.2	2144.0	2144.0
42.5°	1704.6	1690.8	1681.5	1674.6	1674.6	1658.3	1646.8	1635.3	1628.3	1616.7	1614.4
45°	1313.8	1297.5	1286.0	1281.3	1274.5	1253.6	1239.7	1225.8	1209.6	1205.1	1207.4
47.5°	1020.0	1003.8	999.1	987.6	976.0	964.5	955.3	939.1	936.7	927.5	936.7
50°	786.4	781.8	774.9	770.2	763.2	754.0	744.8	735.5	730.9	730.9	733.2
52.5°	610.6	612.9	606.0	599.0	594.4	594.4	582.8	580.5	580.5	571.3	580.5
55°	467.3	464.9	467.3	462.6	462.6	455.6	455.6	448.7	448.7	441.7	446.4
57.5°	342.3	346.9	342.3	344.6	349.3	342.3	340.0	333.0	337.7	333.0	335.4
60°	266.0	266.0	266.0	263.7	263.7	261.3	261.3	259.0	259.0	254.4	259.0
62.5°	196.6	198.9	198.9	198.9	201.3	198.9	196.6	198.9	196.6	196.6	198.9
65°	129.6	131.9	131.9	129.6	134.1	129.6	131.9	134.1	136.4	134.1	136.4
67.5°	87.9	87.9	90.3	92.5	90.3	92.5	94.8	92.5	94.8	99.5	94.8
70°	64.7	67.1	67.1	64.7	62.5	64.7	62.5	69.4	69.4	69.4	74.0
72.5°	41.6	41.6	39.3	39.3	39.3	39.3	39.3	46.3	41.6	39.3	44.0
75°	23.1	25.4	25.4	18.5	20.8	25.4	18.5	20.8	27.8	23.1	27.8
77.5°	13.9	13.9	13.9	13.9	13.9	13.9	18.5	16.2	16.2	16.2	18.5
80°	11.5	9.2	9.2	6.9	9.2	9.2	9.2	13.9	11.5	11.5	13.9
82.5°	4.7	4.7	2.3	0.0	4.7	4.7	4.7	4.7	4.7	4.7	9.2
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: P248661

CATALOG NUMBER: LD8B80D010 ER8B80830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9
2.5°	4732.2	4732.2	4729.9	4725.4	4716.0	4716.0	4713.7	4706.8	4702.2	4699.8	4699.8
5°	4709.1	4699.8	4690.6	4665.2	4665.2	4660.5	4646.7	4637.4	4632.8	4621.2	4616.6
7.5°	4688.3	4660.5	4644.3	4628.2	4607.4	4598.1	4581.9	4574.9	4558.8	4547.2	4540.3
10°	4637.4	4618.9	4598.1	4572.7	4556.5	4538.0	4519.4	4505.6	4484.8	4473.2	4463.9
12.5°	4602.7	4574.9	4556.5	4528.7	4501.0	4484.8	4459.4	4443.2	4422.3	4399.2	4385.3
15°	4570.4	4540.3	4514.9	4484.8	4454.7	4436.2	4406.1	4387.7	4357.6	4334.5	4318.3
17.5°	4521.8	4496.3	4468.6	4431.6	4403.9	4380.7	4348.3	4325.2	4297.4	4267.3	4251.2
20°	4470.9	4440.8	4413.1	4376.1	4348.3	4320.6	4288.2	4262.8	4230.3	4202.6	4184.1
22.5°	4403.9	4369.1	4346.0	4308.9	4276.6	4246.6	4216.5	4186.4	4156.3	4133.2	4112.4
25°	4306.7	4269.6	4244.2	4214.1	4184.1	4161.0	4124.0	4105.5	4075.4	4054.6	4033.7
27.5°	4167.9	4140.2	4117.0	4086.9	4061.5	4043.0	4015.2	3996.8	3971.3	3952.8	3936.6
30°	3964.4	3941.3	3920.4	3890.3	3871.9	3855.7	3830.2	3814.0	3795.5	3774.7	3770.1
32.5°	3691.5	3672.9	3652.1	3631.3	3617.4	3608.2	3587.3	3578.1	3559.6	3548.0	3536.5
35°	3279.7	3263.5	3252.0	3242.8	3238.1	3240.4	3235.8	3245.1	3249.6	3247.3	3249.6
37.5°	2740.9	2731.5	2736.2	2743.2	2766.3	2796.4	2824.1	2865.7	2893.5	2921.3	2946.7
40°	2139.5	2146.4	2164.9	2206.5	2266.7	2333.8	2396.2	2474.9	2553.5	2609.0	2659.9
42.5°	1614.4	1635.3	1681.5	1741.6	1831.9	1931.3	2028.5	2144.0	2239.0	2331.4	2396.2
45°	1214.3	1242.0	1302.2	1385.5	1484.9	1600.5	1723.2	1852.6	1966.0	2060.8	2132.5
47.5°	946.0	971.4	1031.6	1119.5	1242.0	1362.3	1489.5	1623.7	1741.6	1834.2	1896.6
50°	747.1	779.4	832.6	925.2	1047.8	1175.0	1306.8	1438.6	1549.7	1628.3	1683.8
52.5°	587.5	617.6	668.4	765.6	890.5	1017.7	1140.2	1269.8	1366.9	1443.3	1480.3
55°	455.6	483.4	536.6	617.6	735.5	860.4	983.0	1094.1	1184.2	1239.7	1274.5
57.5°	346.9	367.8	404.8	485.7	592.2	707.7	811.9	922.9	992.3	1031.6	1054.6
60°	263.7	279.9	319.2	381.7	478.8	578.3	666.1	749.4	804.9	837.3	860.4
62.5°	198.9	217.4	245.1	298.4	372.3	453.4	527.3	589.8	636.0	656.9	673.1
65°	136.4	150.3	171.2	212.8	275.2	333.0	390.9	437.2	467.3	490.4	499.6
67.5°	101.8	111.0	122.6	155.0	198.9	245.1	284.5	316.8	349.3	358.5	374.7
70°	76.4	83.3	94.8	118.0	143.4	175.7	208.2	226.7	249.8	266.0	270.7
72.5°	48.6	50.8	62.5	76.4	97.1	118.0	138.8	155.0	168.9	178.1	182.7
75°	27.8	41.6	41.6	55.5	69.4	78.6	92.5	104.1	111.0	118.0	118.0
77.5°	18.5	25.4	27.8	34.7	41.6	53.2	64.7	71.7	78.6	80.9	80.9
80°	16.2	18.5	18.5	25.4	30.1	39.3	46.3	48.6	53.2	55.5	60.2
82.5°	6.9	9.2	11.5	18.5	20.8	20.8	27.8	30.1	34.7	37.0	37.0
85°	2.3	4.7	4.7	6.9	11.5	13.9	16.2	18.5	20.8	20.8	23.1
87.5°	2.3	2.3	0.0	2.3	4.7	4.7	9.2	9.2	9.2	13.9	13.9
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: P248661

CATALOG NUMBER: LD8B80D010 ER8B80830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9	4736.9
2.5°	4695.3	4697.6	4688.3	4686.0	4681.4	4683.7	4688.3
5°	4609.7	4612.0	4602.7	4593.5	4593.5	4591.1	4593.5
7.5°	4528.7	4531.1	4517.2	4512.5	4503.3	4505.6	4505.6
10°	4447.8	4447.8	4427.0	4424.6	4417.7	4415.4	4415.4
12.5°	4369.1	4362.2	4346.0	4336.7	4341.4	4327.5	4327.5
15°	4299.7	4288.2	4267.3	4260.4	4248.9	4244.2	4244.2
17.5°	4228.0	4218.8	4200.3	4186.4	4172.5	4170.2	4172.5
20°	4158.6	4149.4	4126.3	4117.0	4105.5	4105.5	4100.8
22.5°	4089.2	4080.0	4059.2	4052.3	4036.1	4036.1	4038.4
25°	4017.5	4010.6	3987.4	3982.9	3980.6	3971.3	3975.9
27.5°	3920.4	3915.8	3897.3	3890.3	3881.1	3878.8	3883.4
30°	3742.3	3735.4	3721.5	3714.6	3698.4	3700.7	3705.3
32.5°	3520.3	3511.1	3492.5	3485.5	3471.7	3467.1	3469.4
35°	3242.8	3235.8	3219.6	3219.6	3205.7	3201.1	3205.7
37.5°	2960.6	2967.5	2960.6	2967.5	2960.6	2958.2	2960.6
40°	2694.6	2720.0	2724.6	2750.1	2740.9	2754.7	2752.4
42.5°	2440.1	2481.7	2498.0	2518.8	2514.2	2523.4	2530.4
45°	2183.4	2218.1	2234.3	2248.2	2250.5	2255.1	2257.4
47.5°	1940.5	1968.3	1970.6	1986.8	1984.5	1984.5	1991.4
50°	1713.9	1732.4	1737.0	1748.6	1739.3	1734.7	1737.0
52.5°	1503.4	1521.9	1517.2	1521.9	1510.4	1505.7	1508.0
55°	1288.3	1297.5	1297.5	1297.5	1283.7	1283.7	1283.7
57.5°	1068.5	1070.9	1066.3	1068.5	1066.3	1052.4	1050.1
60°	867.4	867.4	865.0	867.4	860.4	853.5	853.5
62.5°	677.6	682.3	691.5	682.3	677.6	682.3	675.4
65°	506.6	515.8	513.4	518.1	515.8	515.8	511.1
67.5°	381.7	384.0	386.2	388.6	388.6	388.6	388.6
70°	279.9	286.8	284.5	284.5	284.5	284.5	298.4
72.5°	187.4	196.6	194.3	198.9	198.9	203.5	198.9
75°	127.2	136.4	131.9	138.8	136.4	131.9	143.4
77.5°	85.6	90.3	92.5	94.8	92.5	90.3	92.5
80°	60.2	64.7	62.5	64.7	64.7	64.7	67.1
82.5°	37.0	44.0	41.6	44.0	41.6	44.0	44.0
85°	25.4	27.8	23.1	27.8	25.4	25.4	30.1
87.5°	16.2	13.9	13.9	16.2	13.9	16.2	13.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)