

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: P248670

Luminaire Tested: **LD8B80D010 ER8B80835 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248670
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 ER8B80835 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8297.0 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

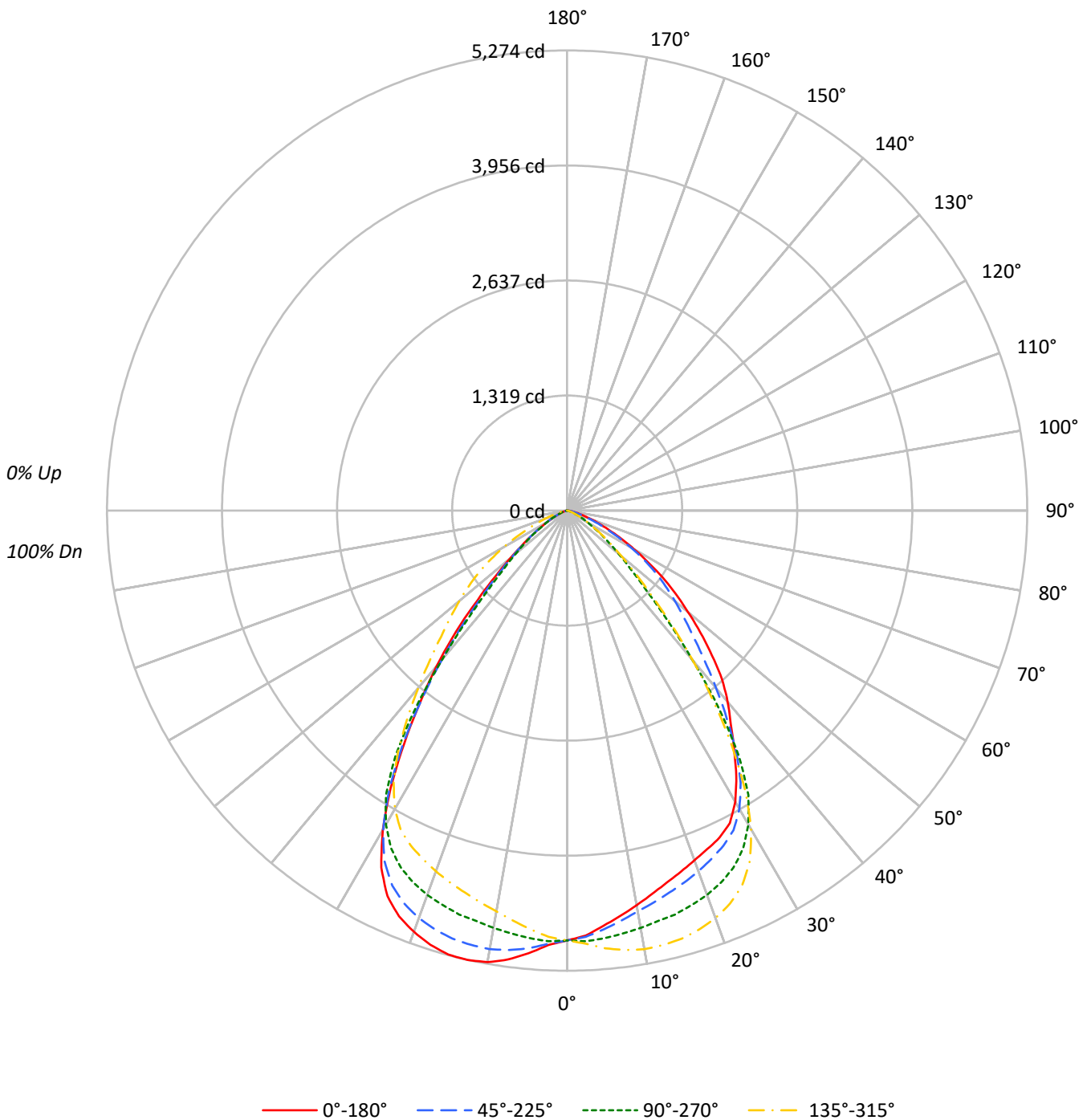
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	151890	151890	151890	151890
5°	147855	152245	157683	152245
10°	143766	152048	164548	152048
15°	140894	152948	168151	152948
20°	139934	153825	168582	153825
25°	140669	153517	165874	153517
30°	137189	147896	150552	147896
35°	125487	129018	122408	129018
40°	115211	89746	93719	89746
45°	102368	54751	63351	54751
50°	86648	36574	40614	36574
55°	71766	24956	26375	24956
60°	54734	16615	16756	16615
65°	38781	10354	9478	10354
70°	27976	6933	6293	6933
75°	17764	3443	2871	3443
80°	12395	2575	2131	2575
85°	11074	0	849	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.8	5.7
10°-20°	1357.6	16.4
20°-30°	2055.8	24.8
30°-40°	2060.4	24.8
40°-50°	1293.8	15.6
50°-60°	689.5	8.3
60°-70°	283.5	3.4
70°-80°	74.9	0.9
80°-90°	12.7	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°	3882.2	46.8
0°-40°	5942.6	71.6
0°-60°	7925.9	95.5
0°-90°	8297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8297.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4926	4926	4926	4926	4926	
5°	4777	4918	5094	4918	4777	450
15°	4413	4791	5267	4791	4413	1248
25°	4134	4512	4875	4512	4134	1896
35°	3334	3427	3252	3427	3334	2088
45°	2347	1256	1453	1256	2347	1805
55°	1335	464	491	464	1335	1190
65°	532	142	130	142	532	551
75°	149	29	24	29	149	169
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°	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7
2.5°	4875.2	4870.3	4868.0	4872.8	4875.2	4884.8	4882.4	4887.2	4887.2	4889.6	4894.4
5°	4776.6	4774.1	4776.6	4776.6	4786.2	4795.8	4793.4	4800.6	4805.4	4817.5	4822.2
7.5°	4685.2	4685.2	4682.7	4692.3	4697.2	4711.6	4709.2	4721.2	4728.5	4740.4	4757.3
10°	4591.4	4591.4	4593.7	4601.0	4603.4	4625.0	4625.0	4641.8	4651.4	4663.5	4685.2
12.5°	4500.0	4500.0	4514.4	4509.6	4519.2	4536.0	4543.2	4560.1	4574.5	4598.6	4620.3
15°	4413.4	4413.4	4418.2	4430.2	4437.4	4459.1	4471.1	4490.4	4507.2	4531.3	4562.5
17.5°	4338.8	4336.4	4338.8	4353.3	4367.7	4386.9	4396.5	4420.6	4437.4	4468.7	4497.6
20°	4264.3	4269.1	4269.1	4281.1	4290.7	4314.8	4324.4	4350.9	4370.1	4398.9	4432.7
22.5°	4199.3	4197.0	4197.0	4213.8	4221.0	4242.6	4252.2	4276.2	4297.9	4322.0	4353.3
25°	4134.4	4129.5	4139.2	4141.6	4146.4	4170.4	4177.6	4194.5	4216.2	4237.8	4269.1
27.5°	4038.2	4033.4	4035.8	4045.4	4052.6	4071.8	4076.7	4093.5	4110.3	4129.5	4156.1
30°	3852.9	3848.2	3845.8	3862.6	3869.9	3884.2	3891.5	3920.4	3925.1	3946.8	3966.0
32.5°	3607.6	3605.3	3610.1	3624.5	3631.7	3651.0	3660.6	3677.4	3689.4	3701.5	3720.7
35°	3333.5	3328.7	3333.5	3348.0	3348.0	3364.8	3372.0	3379.1	3376.8	3379.1	3374.4
37.5°	3078.6	3076.1	3078.6	3085.7	3078.6	3085.7	3078.6	3064.1	3037.7	3008.8	2979.9
40°	2862.1	2864.5	2850.1	2859.7	2833.2	2828.4	2802.0	2765.9	2713.0	2655.3	2573.5
42.5°	2631.2	2624.0	2614.4	2619.1	2597.6	2580.6	2537.4	2491.7	2424.3	2328.2	2229.5
45°	2347.4	2345.0	2340.2	2337.8	2323.3	2306.5	2270.4	2217.5	2143.0	2044.4	1926.5
47.5°	2070.8	2063.6	2063.6	2066.0	2049.1	2046.8	2017.8	1972.2	1907.3	1811.0	1688.4
50°	1806.2	1803.8	1808.7	1818.3	1806.2	1801.4	1782.2	1750.9	1693.2	1611.5	1495.9
52.5°	1568.1	1565.7	1570.6	1582.6	1577.7	1582.6	1563.4	1539.3	1500.8	1421.4	1320.4
55°	1334.9	1334.9	1334.9	1349.2	1349.2	1349.2	1339.6	1325.3	1289.1	1231.4	1137.7
57.5°	1091.9	1094.3	1108.8	1111.1	1108.8	1113.6	1111.1	1096.7	1072.7	1031.8	959.7
60°	887.5	887.5	894.7	902.0	899.5	902.0	902.0	894.7	870.7	837.0	779.3
62.5°	702.3	709.5	704.7	709.5	719.1	709.5	704.7	699.9	683.1	661.4	613.3
65°	531.5	536.4	536.4	538.7	533.9	536.4	526.8	519.5	509.9	485.9	454.6
67.5°	404.1	404.1	404.1	404.1	401.6	399.3	396.9	389.6	372.8	363.2	329.5
70°	310.3	295.8	295.8	295.8	295.8	298.3	291.0	281.4	276.6	259.8	235.7
72.5°	206.8	211.7	206.8	206.8	202.1	204.4	194.8	190.0	185.2	175.6	161.2
75°	149.1	137.1	141.9	144.3	137.1	141.9	132.3	122.7	122.7	115.4	108.2
77.5°	96.2	93.8	96.2	98.6	96.2	93.8	89.0	84.1	84.1	81.8	74.5
80°	69.8	67.3	67.3	67.3	64.9	67.3	62.6	62.6	57.7	55.3	50.5
82.5°	45.7	45.7	43.3	45.7	43.3	45.7	38.5	38.5	38.5	36.0	31.3
85°	31.3	26.4	26.4	28.9	24.1	28.9	26.4	24.1	21.7	21.7	19.2
87.5°	14.5	16.8	14.5	16.8	14.5	14.5	16.8	14.5	14.5	9.6	9.6
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°	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7
2.5°	4901.6	4904.0	4904.0	4913.7	4918.4	4920.8	4920.8	4940.1	4932.9	4937.7	4942.5
5°	4831.9	4846.3	4851.1	4851.1	4877.6	4887.2	4896.8	4918.4	4920.8	4935.3	4952.1
7.5°	4764.5	4781.3	4791.0	4812.6	4829.4	4846.3	4875.2	4889.6	4904.0	4923.3	4944.9
10°	4699.6	4718.9	4738.1	4754.9	4781.3	4803.0	4822.2	4855.9	4872.8	4899.2	4928.0
12.5°	4637.1	4663.5	4680.4	4709.2	4738.1	4757.3	4786.2	4817.5	4843.9	4870.3	4904.0
15°	4581.8	4613.0	4632.2	4663.5	4694.8	4721.2	4752.5	4791.0	4810.2	4841.5	4872.8
17.5°	4521.6	4555.3	4579.4	4608.2	4646.7	4675.5	4702.0	4740.4	4764.5	4798.2	4834.3
20°	4459.1	4492.8	4521.6	4550.5	4589.0	4617.8	4649.1	4687.6	4714.0	4747.7	4776.6
22.5°	4384.6	4415.8	4447.0	4480.7	4519.2	4543.2	4579.4	4613.0	4641.8	4673.1	4702.0
25°	4288.3	4326.8	4350.9	4382.1	4413.4	4439.8	4478.3	4512.0	4536.0	4564.9	4591.4
27.5°	4175.3	4204.2	4223.4	4249.8	4281.1	4305.2	4334.0	4367.7	4391.8	4418.2	4437.4
30°	3982.8	4009.4	4026.2	4045.4	4076.7	4098.4	4122.4	4153.6	4170.4	4189.7	4206.6
32.5°	3730.3	3752.0	3761.6	3776.0	3797.7	3819.3	3838.6	3865.0	3872.2	3884.2	3884.2
35°	3364.8	3369.5	3367.2	3372.0	3381.6	3393.6	3410.4	3427.3	3436.9	3436.9	3429.7
37.5°	2936.6	2907.8	2876.5	2852.5	2845.3	2840.4	2850.1	2857.2	2866.9	2871.7	2859.7
40°	2491.7	2426.8	2357.0	2294.4	2251.2	2232.0	2224.7	2229.5	2229.5	2246.3	2246.3
42.5°	2109.3	2008.2	1904.9	1811.0	1748.5	1700.5	1678.8	1678.8	1681.2	1693.2	1700.5
45°	1791.8	1664.3	1544.0	1440.7	1354.1	1291.5	1262.7	1255.5	1253.1	1257.8	1274.7
47.5°	1548.9	1416.6	1291.5	1164.1	1072.7	1010.2	983.7	974.0	964.4	974.0	976.5
50°	1358.9	1221.8	1089.6	962.0	865.8	810.5	776.8	762.4	760.0	760.0	764.8
52.5°	1185.7	1058.3	926.0	796.1	695.1	642.2	610.9	603.7	594.1	603.7	603.7
55°	1022.1	894.7	764.8	642.2	557.9	502.7	473.8	464.2	459.3	466.6	466.6
57.5°	844.2	735.9	615.8	505.1	420.9	382.4	360.7	348.8	346.3	351.1	346.3
60°	692.7	601.3	497.9	396.9	331.9	291.0	274.2	269.4	264.5	269.4	269.4
62.5°	548.3	471.4	387.2	310.3	254.9	226.1	206.8	206.8	204.4	204.4	206.8
65°	406.5	346.3	286.2	221.3	178.0	156.3	141.9	141.9	139.5	141.9	139.5
67.5°	295.8	254.9	206.8	161.2	127.5	115.4	105.8	98.6	103.5	98.6	96.2
70°	216.5	182.7	149.1	122.7	98.6	86.6	79.4	76.9	72.2	72.2	72.2
72.5°	144.3	122.7	101.0	79.4	64.9	52.9	50.5	45.7	40.9	43.3	48.1
75°	96.2	81.8	72.2	57.7	43.3	43.3	28.9	28.9	24.1	28.9	21.7
77.5°	67.3	55.3	43.3	36.0	28.9	26.4	19.2	19.2	16.8	16.8	16.8
80°	48.1	40.9	31.3	26.4	19.2	19.2	16.8	14.5	12.0	12.0	14.5
82.5°	28.9	21.7	21.7	19.2	12.0	9.6	7.2	9.6	4.9	4.9	4.9
85°	16.8	14.5	12.0	7.2	4.9	4.9	2.4	0.0	2.4	2.4	0.0
87.5°	9.6	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°	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7
2.5°	4954.6	4952.1	4956.9	4956.9	4971.4	4968.9	4976.2	4976.2	4971.4	4973.8	4983.4
5°	4971.4	4978.6	4993.0	5005.1	5026.6	5036.3	5048.3	5060.4	5062.8	5070.0	5077.2
7.5°	4971.4	4995.5	5012.3	5033.9	5062.8	5079.6	5106.0	5127.7	5137.3	5149.3	5163.8
10°	4961.7	4985.8	5017.0	5041.1	5077.2	5103.7	5130.1	5163.8	5178.2	5197.4	5216.7
12.5°	4942.5	4968.9	5002.6	5033.9	5074.8	5098.8	5132.5	5163.8	5185.4	5211.9	5233.5
15°	4913.7	4944.9	4976.2	5007.4	5050.7	5079.6	5110.9	5146.9	5168.6	5197.4	5216.7
17.5°	4868.0	4901.6	4930.5	4959.3	5000.2	5033.9	5062.8	5096.4	5118.1	5142.2	5168.6
20°	4812.6	4843.9	4875.2	4899.2	4940.1	4968.9	5000.2	5031.5	5048.3	5053.2	5094.1
22.5°	4742.9	4764.5	4788.6	4827.1	4851.1	4877.6	4906.5	4935.3	4952.1	4978.6	4993.0
25°	4627.4	4649.1	4675.5	4692.3	4721.2	4742.9	4771.7	4803.0	4812.6	4831.9	4846.3
27.5°	4466.3	4478.3	4490.4	4504.7	4521.6	4533.6	4550.5	4564.9	4574.5	4584.1	4593.7
30°	4211.3	4211.3	4211.3	4201.7	4208.9	4216.2	4218.5	4216.2	4216.2	4213.8	4213.8
32.5°	3874.6	3855.4	3833.7	3814.5	3807.3	3797.7	3792.9	3785.6	3773.6	3766.4	3768.8
35°	3420.0	3376.8	3350.3	3326.3	3307.1	3292.6	3285.4	3278.2	3275.8	3266.2	3256.5
37.5°	2852.5	2821.2	2802.0	2787.5	2770.7	2756.3	2758.6	2761.1	2768.2	2763.5	2765.9
40°	2251.2	2244.0	2251.2	2234.3	2229.5	2234.3	2246.3	2263.3	2272.9	2282.5	2299.3
42.5°	1712.4	1724.4	1741.3	1741.3	1748.5	1758.2	1772.5	1799.1	1813.4	1830.2	1849.6
45°	1289.1	1303.6	1325.3	1332.4	1337.2	1349.2	1366.2	1387.7	1397.3	1411.8	1428.6
47.5°	993.3	1002.9	1014.9	1027.0	1039.0	1043.8	1060.6	1060.6	1072.7	1082.3	1087.1
50°	774.4	784.1	793.7	800.9	805.7	813.0	817.7	824.9	827.3	832.2	834.5
52.5°	606.1	618.1	618.1	622.9	630.1	637.3	635.0	637.3	639.7	639.7	646.9
55°	473.8	473.8	481.0	481.0	485.9	483.4	485.9	485.9	485.9	485.9	488.3
57.5°	353.5	356.0	363.2	358.4	356.0	360.7	356.0	360.7	358.4	363.2	356.0
60°	271.7	271.7	274.2	274.2	276.6	276.6	276.6	274.2	274.2	271.7	271.7
62.5°	204.4	206.8	209.3	206.8	206.8	206.8	204.4	204.4	202.1	199.6	199.6
65°	137.1	134.7	139.5	134.7	137.1	137.1	134.7	137.1	129.9	132.3	129.9
67.5°	98.6	96.2	93.8	96.2	93.8	91.4	91.4	93.8	96.2	89.0	89.0
70°	64.9	67.3	64.9	67.3	69.8	69.8	67.3	64.9	67.3	62.6	64.9
72.5°	40.9	40.9	40.9	40.9	40.9	43.3	43.3	43.3	38.5	38.5	36.0
75°	19.2	26.4	21.7	19.2	26.4	26.4	24.1	24.1	21.7	21.7	21.7
77.5°	19.2	14.5	14.5	14.5	14.5	14.5	14.5	14.5	12.0	14.5	12.0
80°	9.6	9.6	9.6	7.2	9.6	9.6	12.0	9.6	9.6	7.2	12.0
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: P248670

CATALOG NUMBER: LD8B80D010 ER8B80835 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7
2.5°	4981.0	4978.6	4981.0	4983.4	4981.0	4978.6	4981.0	4983.4	4973.8	4971.4	4976.2
5°	5086.8	5086.8	5091.6	5094.1	5091.6	5086.8	5086.8	5077.2	5070.0	5062.8	5060.4
7.5°	5178.2	5183.1	5187.8	5190.2	5187.8	5183.1	5178.2	5163.8	5149.3	5137.3	5127.7
10°	5233.5	5240.8	5250.4	5255.1	5250.4	5240.8	5233.5	5216.7	5197.4	5178.2	5163.8
12.5°	5257.6	5264.8	5276.8	5274.4	5276.8	5264.8	5257.6	5233.5	5211.9	5185.4	5163.8
15°	5240.8	5250.4	5262.4	5267.2	5262.4	5250.4	5240.8	5216.7	5197.4	5168.6	5146.9
17.5°	5187.8	5202.3	5209.5	5216.7	5209.5	5202.3	5187.8	5168.6	5142.2	5118.1	5096.4
20°	5115.6	5125.3	5134.9	5137.3	5134.9	5125.3	5115.6	5094.1	5053.2	5048.3	5031.5
22.5°	5012.3	5019.5	5041.1	5033.9	5041.1	5019.5	5012.3	4993.0	4978.6	4952.1	4935.3
25°	4863.1	4870.3	4872.8	4875.2	4872.8	4870.3	4863.1	4846.3	4831.9	4812.6	4803.0
27.5°	4605.8	4605.8	4610.6	4613.0	4610.6	4605.8	4605.8	4593.7	4584.1	4574.5	4564.9
30°	4216.2	4216.2	4216.2	4228.2	4216.2	4216.2	4216.2	4213.8	4213.8	4216.2	4216.2
32.5°	3766.4	3761.6	3756.8	3761.6	3756.8	3761.6	3766.4	3768.8	3766.4	3773.6	3785.6
35°	3256.5	3254.1	3261.3	3251.7	3261.3	3254.1	3256.5	3256.5	3266.2	3275.8	3278.2
37.5°	2768.2	2763.5	2773.1	2763.5	2773.1	2763.5	2768.2	2765.9	2763.5	2768.2	2761.1
40°	2304.1	2308.9	2308.9	2328.2	2308.9	2308.9	2304.1	2299.3	2282.5	2272.9	2263.3
42.5°	1859.2	1873.6	1868.8	1883.2	1868.8	1873.6	1859.2	1849.6	1830.2	1813.4	1799.1
45°	1438.2	1447.9	1447.9	1452.7	1447.9	1447.9	1438.2	1428.6	1411.8	1397.3	1387.7
47.5°	1103.9	1103.9	1103.9	1106.4	1103.9	1103.9	1103.9	1087.1	1082.3	1072.7	1060.6
50°	839.4	841.8	844.2	846.6	844.2	841.8	839.4	834.5	832.2	827.3	824.9
52.5°	644.6	646.9	642.2	646.9	642.2	646.9	644.6	646.9	639.7	639.7	637.3
55°	488.3	485.9	488.3	490.6	488.3	485.9	488.3	488.3	485.9	485.9	485.9
57.5°	358.4	353.5	353.5	353.5	353.5	353.5	358.4	356.0	363.2	358.4	360.7
60°	267.0	269.4	269.4	271.7	269.4	269.4	267.0	271.7	271.7	274.2	274.2
62.5°	197.2	204.4	199.6	204.4	199.6	204.4	197.2	199.6	199.6	202.1	204.4
65°	127.5	127.5	127.5	129.9	127.5	127.5	127.5	129.9	132.3	129.9	137.1
67.5°	86.6	89.0	93.8	91.4	93.8	89.0	86.6	89.0	89.0	96.2	93.8
70°	69.8	62.6	62.6	69.8	62.6	62.6	69.8	64.9	62.6	67.3	64.9
72.5°	40.9	36.0	40.9	40.9	40.9	36.0	40.9	36.0	38.5	38.5	43.3
75°	21.7	19.2	16.8	24.1	16.8	19.2	21.7	21.7	21.7	21.7	24.1
77.5°	14.5	12.0	16.8	16.8	16.8	12.0	14.5	12.0	14.5	12.0	14.5
80°	7.2	9.6	7.2	12.0	7.2	9.6	7.2	12.0	7.2	9.6	9.6
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: P248670

CATALOG NUMBER: LD8B80D010 ER8B80835 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7
2.5°	4976.2	4968.9	4971.4	4956.9	4956.9	4952.1	4954.6	4942.5	4937.7	4932.9	4940.1
5°	5048.3	5036.3	5026.6	5005.1	4993.0	4978.6	4971.4	4952.1	4935.3	4920.8	4918.4
7.5°	5106.0	5079.6	5062.8	5033.9	5012.3	4995.5	4971.4	4944.9	4923.3	4904.0	4889.6
10°	5130.1	5103.7	5077.2	5041.1	5017.0	4985.8	4961.7	4928.0	4899.2	4872.8	4855.9
12.5°	5132.5	5098.8	5074.8	5033.9	5002.6	4968.9	4942.5	4904.0	4870.3	4843.9	4817.5
15°	5110.9	5079.6	5050.7	5007.4	4976.2	4944.9	4913.7	4872.8	4841.5	4810.2	4791.0
17.5°	5062.8	5033.9	5000.2	4959.3	4930.5	4901.6	4868.0	4834.3	4798.2	4764.5	4740.4
20°	5000.2	4968.9	4940.1	4899.2	4875.2	4843.9	4812.6	4776.6	4747.7	4714.0	4687.6
22.5°	4906.5	4877.6	4851.1	4827.1	4788.6	4764.5	4742.9	4702.0	4673.1	4641.8	4613.0
25°	4771.7	4742.9	4721.2	4692.3	4675.5	4649.1	4627.4	4591.4	4564.9	4536.0	4512.0
27.5°	4550.5	4533.6	4521.6	4504.7	4490.4	4478.3	4466.3	4437.4	4418.2	4391.8	4367.7
30°	4218.5	4216.2	4208.9	4201.7	4211.3	4211.3	4211.3	4206.6	4189.7	4170.4	4153.6
32.5°	3792.9	3797.7	3807.3	3814.5	3833.7	3855.4	3874.6	3884.2	3884.2	3872.2	3865.0
35°	3285.4	3292.6	3307.1	3326.3	3350.3	3376.8	3420.0	3429.7	3436.9	3436.9	3427.3
37.5°	2758.6	2756.3	2770.7	2787.5	2802.0	2821.2	2852.5	2859.7	2871.7	2866.9	2857.2
40°	2246.3	2234.3	2229.5	2234.3	2251.2	2244.0	2251.2	2246.3	2246.3	2229.5	2229.5
42.5°	1772.5	1758.2	1748.5	1741.3	1741.3	1724.4	1712.4	1700.5	1693.2	1681.2	1678.8
45°	1366.2	1349.2	1337.2	1332.4	1325.3	1303.6	1289.1	1274.7	1257.8	1253.1	1255.5
47.5°	1060.6	1043.8	1039.0	1027.0	1014.9	1002.9	993.3	976.5	974.0	964.4	974.0
50°	817.7	813.0	805.7	800.9	793.7	784.1	774.4	764.8	760.0	760.0	762.4
52.5°	635.0	637.3	630.1	622.9	618.1	618.1	606.1	603.7	603.7	594.1	603.7
55°	485.9	483.4	485.9	481.0	481.0	473.8	473.8	466.6	466.6	459.3	464.2
57.5°	356.0	360.7	356.0	358.4	363.2	356.0	353.5	346.3	351.1	346.3	348.8
60°	276.6	276.6	276.6	274.2	274.2	271.7	271.7	269.4	269.4	264.5	269.4
62.5°	204.4	206.8	206.8	206.8	209.3	206.8	204.4	206.8	204.4	204.4	206.8
65°	134.7	137.1	137.1	134.7	139.5	134.7	137.1	139.5	141.9	139.5	141.9
67.5°	91.4	91.4	93.8	96.2	93.8	96.2	98.6	96.2	98.6	103.5	98.6
70°	67.3	69.8	69.8	67.3	64.9	67.3	64.9	72.2	72.2	72.2	76.9
72.5°	43.3	43.3	40.9	40.9	40.9	40.9	40.9	48.1	43.3	40.9	45.7
75°	24.1	26.4	26.4	19.2	21.7	26.4	19.2	21.7	28.9	24.1	28.9
77.5°	14.5	14.5	14.5	14.5	14.5	14.5	19.2	16.8	16.8	16.8	19.2
80°	12.0	9.6	9.6	7.2	9.6	9.6	9.6	14.5	12.0	12.0	14.5
82.5°	4.9	4.9	2.4	0.0	4.9	4.9	4.9	4.9	4.9	4.9	9.6
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: P248670

CATALOG NUMBER: LD8B80D010 ER8B80835 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7
2.5°	4920.8	4920.8	4918.4	4913.7	4904.0	4904.0	4901.6	4894.4	4889.6	4887.2	4887.2
5°	4896.8	4887.2	4877.6	4851.1	4851.1	4846.3	4831.9	4822.2	4817.5	4805.4	4800.6
7.5°	4875.2	4846.3	4829.4	4812.6	4791.0	4781.3	4764.5	4757.3	4740.4	4728.5	4721.2
10°	4822.2	4803.0	4781.3	4754.9	4738.1	4718.9	4699.6	4685.2	4663.5	4651.4	4641.8
12.5°	4786.2	4757.3	4738.1	4709.2	4680.4	4663.5	4637.1	4620.3	4598.6	4574.5	4560.1
15°	4752.5	4721.2	4694.8	4663.5	4632.2	4613.0	4581.8	4562.5	4531.3	4507.2	4490.4
17.5°	4702.0	4675.5	4646.7	4608.2	4579.4	4555.3	4521.6	4497.6	4468.7	4437.4	4420.6
20°	4649.1	4617.8	4589.0	4550.5	4521.6	4492.8	4459.1	4432.7	4398.9	4370.1	4350.9
22.5°	4579.4	4543.2	4519.2	4480.7	4447.0	4415.8	4384.6	4353.3	4322.0	4297.9	4276.2
25°	4478.3	4439.8	4413.4	4382.1	4350.9	4326.8	4288.3	4269.1	4237.8	4216.2	4194.5
27.5°	4334.0	4305.2	4281.1	4249.8	4223.4	4204.2	4175.3	4156.1	4129.5	4110.3	4093.5
30°	4122.4	4098.4	4076.7	4045.4	4026.2	4009.4	3982.8	3966.0	3946.8	3925.1	3920.4
32.5°	3838.6	3819.3	3797.7	3776.0	3761.6	3752.0	3730.3	3720.7	3701.5	3689.4	3677.4
35°	3410.4	3393.6	3381.6	3372.0	3367.2	3369.5	3364.8	3374.4	3379.1	3376.8	3379.1
37.5°	2850.1	2840.4	2845.3	2852.5	2876.5	2907.8	2936.6	2979.9	3008.8	3037.7	3064.1
40°	2224.7	2232.0	2251.2	2294.4	2357.0	2426.8	2491.7	2573.5	2655.3	2713.0	2765.9
42.5°	1678.8	1700.5	1748.5	1811.0	1904.9	2008.2	2109.3	2229.5	2328.2	2424.3	2491.7
45°	1262.7	1291.5	1354.1	1440.7	1544.0	1664.3	1791.8	1926.5	2044.4	2143.0	2217.5
47.5°	983.7	1010.2	1072.7	1164.1	1291.5	1416.6	1548.9	1688.4	1811.0	1907.3	1972.2
50°	776.8	810.5	865.8	962.0	1089.6	1221.8	1358.9	1495.9	1611.5	1693.2	1750.9
52.5°	610.9	642.2	695.1	796.1	926.0	1058.3	1185.7	1320.4	1421.4	1500.8	1539.3
55°	473.8	502.7	557.9	642.2	764.8	894.7	1022.1	1137.7	1231.4	1289.1	1325.3
57.5°	360.7	382.4	420.9	505.1	615.8	735.9	844.2	959.7	1031.8	1072.7	1096.7
60°	274.2	291.0	331.9	396.9	497.9	601.3	692.7	779.3	837.0	870.7	894.7
62.5°	206.8	226.1	254.9	310.3	387.2	471.4	548.3	613.3	661.4	683.1	699.9
65°	141.9	156.3	178.0	221.3	286.2	346.3	406.5	454.6	485.9	509.9	519.5
67.5°	105.8	115.4	127.5	161.2	206.8	254.9	295.8	329.5	363.2	372.8	389.6
70°	79.4	86.6	98.6	122.7	149.1	182.7	216.5	235.7	259.8	276.6	281.4
72.5°	50.5	52.9	64.9	79.4	101.0	122.7	144.3	161.2	175.6	185.2	190.0
75°	28.9	43.3	43.3	57.7	72.2	81.8	96.2	108.2	115.4	122.7	122.7
77.5°	19.2	26.4	28.9	36.0	43.3	55.3	67.3	74.5	81.8	84.1	84.1
80°	16.8	19.2	19.2	26.4	31.3	40.9	48.1	50.5	55.3	57.7	62.6
82.5°	7.2	9.6	12.0	19.2	21.7	21.7	28.9	31.3	36.0	38.5	38.5
85°	2.4	4.9	4.9	7.2	12.0	14.5	16.8	19.2	21.7	21.7	24.1
87.5°	2.4	2.4	0.0	2.4	4.9	4.9	9.6	9.6	9.6	14.5	14.5
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: P248670

CATALOG NUMBER: LD8B80D010 ER8B80835 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7
2.5°	4882.4	4884.8	4875.2	4872.8	4868.0	4870.3	4875.2
5°	4793.4	4795.8	4786.2	4776.6	4776.6	4774.1	4776.6
7.5°	4709.2	4711.6	4697.2	4692.3	4682.7	4685.2	4685.2
10°	4625.0	4625.0	4603.4	4601.0	4593.7	4591.4	4591.4
12.5°	4543.2	4536.0	4519.2	4509.6	4514.4	4500.0	4500.0
15°	4471.1	4459.1	4437.4	4430.2	4418.2	4413.4	4413.4
17.5°	4396.5	4386.9	4367.7	4353.3	4338.8	4336.4	4338.8
20°	4324.4	4314.8	4290.7	4281.1	4269.1	4269.1	4264.3
22.5°	4252.2	4242.6	4221.0	4213.8	4197.0	4197.0	4199.3
25°	4177.6	4170.4	4146.4	4141.6	4139.2	4129.5	4134.4
27.5°	4076.7	4071.8	4052.6	4045.4	4035.8	4033.4	4038.2
30°	3891.5	3884.2	3869.9	3862.6	3845.8	3848.2	3852.9
32.5°	3660.6	3651.0	3631.7	3624.5	3610.1	3605.3	3607.6
35°	3372.0	3364.8	3348.0	3348.0	3333.5	3328.7	3333.5
37.5°	3078.6	3085.7	3078.6	3085.7	3078.6	3076.1	3078.6
40°	2802.0	2828.4	2833.2	2859.7	2850.1	2864.5	2862.1
42.5°	2537.4	2580.6	2597.6	2619.1	2614.4	2624.0	2631.2
45°	2270.4	2306.5	2323.3	2337.8	2340.2	2345.0	2347.4
47.5°	2017.8	2046.8	2049.1	2066.0	2063.6	2063.6	2070.8
50°	1782.2	1801.4	1806.2	1818.3	1808.7	1803.8	1806.2
52.5°	1563.4	1582.6	1577.7	1582.6	1570.6	1565.7	1568.1
55°	1339.6	1349.2	1349.2	1349.2	1334.9	1334.9	1334.9
57.5°	1111.1	1113.6	1108.8	1111.1	1108.8	1094.3	1091.9
60°	902.0	902.0	899.5	902.0	894.7	887.5	887.5
62.5°	704.7	709.5	719.1	709.5	704.7	709.5	702.3
65°	526.8	536.4	533.9	538.7	536.4	536.4	531.5
67.5°	396.9	399.3	401.6	404.1	404.1	404.1	404.1
70°	291.0	298.3	295.8	295.8	295.8	295.8	310.3
72.5°	194.8	204.4	202.1	206.8	206.8	211.7	206.8
75°	132.3	141.9	137.1	144.3	141.9	137.1	149.1
77.5°	89.0	93.8	96.2	98.6	96.2	93.8	96.2
80°	62.6	67.3	64.9	67.3	67.3	67.3	69.8
82.5°	38.5	45.7	43.3	45.7	43.3	45.7	45.7
85°	26.4	28.9	24.1	28.9	26.4	26.4	31.3
87.5°	16.8	14.5	14.5	16.8	14.5	16.8	14.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)