

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: P248985

Luminaire Tested: **LD8B80D010 ER8B80830 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248985
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 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7965.0 lumens
Efficiency: N/A
Efficacy: 107.1 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

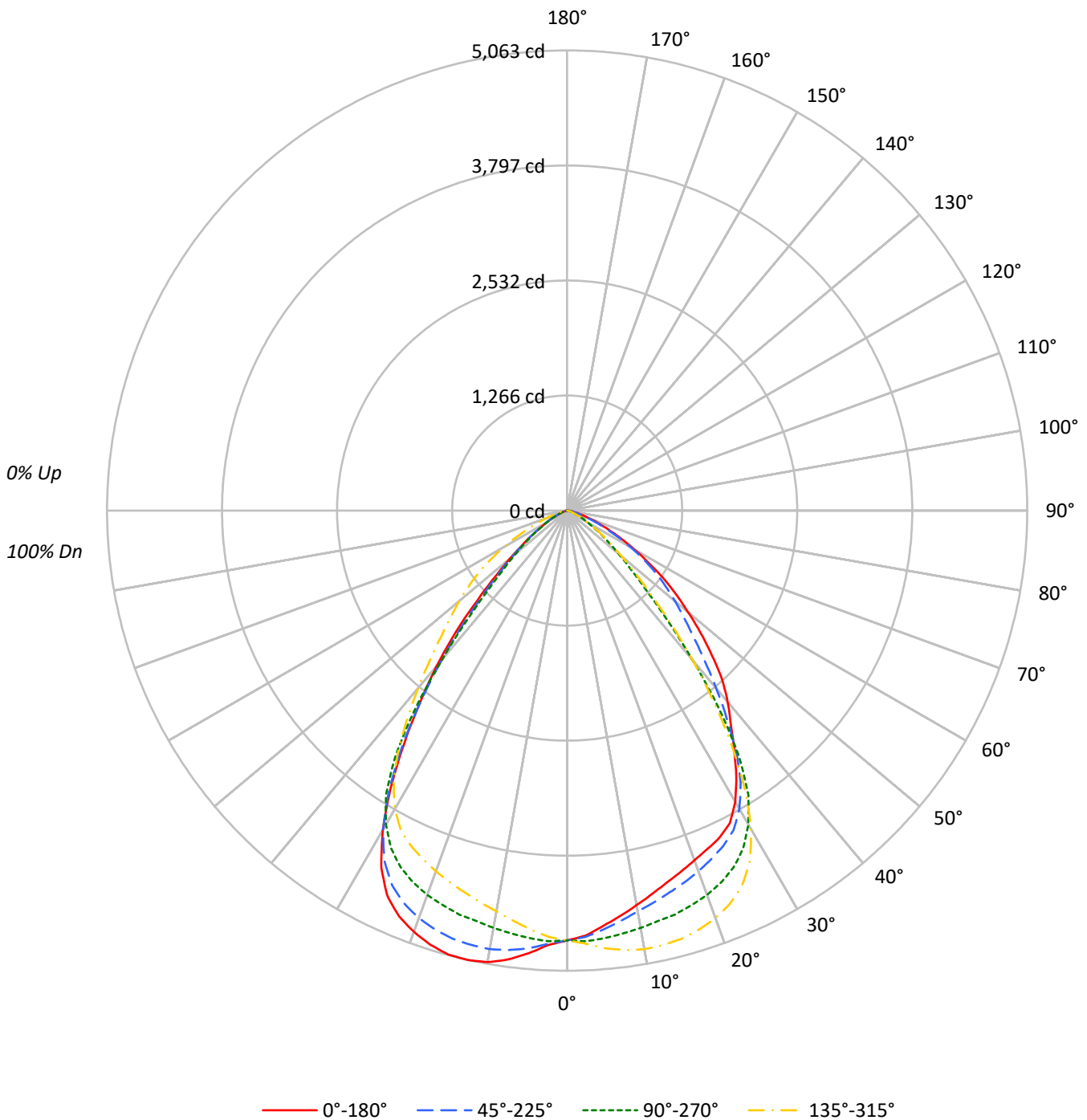
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248985

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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°	145813	145813	145813	145813
5°	141937	146153	151372	146153
10°	138011	145964	157963	145964
15°	135256	146829	161421	146829
20°	134333	147669	161839	147669
25°	135042	147372	159236	147372
30°	131702	141978	144528	141978
35°	120465	123853	117510	123853
40°	110602	86156	89968	86156
45°	98273	52558	60813	52558
50°	83180	35111	38987	35111
55°	68895	23956	25322	23956
60°	52545	15949	16090	15949
65°	37227	9938	9099	9938
70°	26849	6654	6041	6654
75°	17049	3312	2752	3312
80°	11898	2468	2042	2468
85°	10614	0	814	0



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CATALOG NUMBER: LD8B80D010 ER8B80830 8LBSW0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.1	5.7
10°-20°	1303.3	16.4
20°-30°	1973.5	24.8
30°-40°	1977.9	24.8
40°-50°	1242.0	15.6
50°-60°	661.9	8.3
60°-70°	272.2	3.4
70°-80°	71.9	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°	3726.9	46.8
0°-40°	5704.8	71.6
0°-60°	7608.7	95.5
0°-90°	7965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7965.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4729	4729	4729	4729	4729	
5°	4585	4722	4890	4722	4585	432
15°	4237	4599	5056	4599	4237	1198
25°	3969	4331	4680	4331	3969	1820
35°	3200	3290	3122	3290	3200	2005
45°	2254	1205	1394	1205	2254	1733
55°	1282	446	471	446	1282	1142
65°	510	136	125	136	510	529
75°	143	28	23	28	143	162
85°	30	0	2	0	30	33
90°	0	0	0	0	0	



TEST NUMBER: P248985

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6
2.5°	4680.1	4675.4	4673.2	4677.8	4680.1	4689.3	4687.0	4691.6	4691.6	4694.0	4698.5
5°	4585.4	4583.1	4585.4	4585.4	4594.7	4603.9	4601.6	4608.5	4613.1	4624.7	4629.3
7.5°	4497.7	4497.7	4495.4	4504.6	4509.2	4523.1	4520.7	4532.3	4539.3	4550.8	4566.9
10°	4407.6	4407.6	4409.9	4416.9	4419.2	4439.9	4439.9	4456.1	4465.3	4476.9	4497.7
12.5°	4319.9	4319.9	4333.8	4329.1	4338.4	4354.5	4361.4	4377.6	4391.5	4414.6	4435.4
15°	4236.8	4236.8	4241.4	4252.9	4259.9	4280.7	4292.2	4310.7	4326.9	4349.9	4380.0
17.5°	4165.2	4162.9	4165.2	4179.1	4193.0	4211.4	4220.6	4243.7	4259.9	4289.9	4317.6
20°	4093.6	4098.3	4098.3	4109.8	4119.0	4142.1	4151.3	4176.8	4195.2	4222.9	4255.3
22.5°	4031.3	4029.0	4029.0	4045.2	4052.1	4072.8	4082.0	4105.1	4126.0	4149.0	4179.1
25°	3969.0	3964.3	3973.6	3975.9	3980.5	4003.5	4010.5	4026.6	4047.5	4068.3	4098.3
27.5°	3876.6	3872.0	3874.3	3883.5	3890.5	3908.9	3913.5	3929.7	3945.9	3964.3	3989.8
30°	3698.8	3694.2	3691.9	3708.1	3715.0	3728.8	3735.7	3763.5	3768.0	3788.9	3807.3
32.5°	3463.3	3461.0	3465.6	3479.4	3486.4	3504.9	3514.1	3530.3	3541.8	3553.4	3571.8
35°	3200.1	3195.5	3200.1	3214.0	3214.0	3230.1	3237.1	3243.9	3241.6	3243.9	3239.4
37.5°	2955.4	2953.0	2955.4	2962.2	2955.4	2962.2	2955.4	2941.5	2916.2	2888.4	2860.7
40°	2747.6	2749.8	2736.1	2745.3	2719.8	2715.2	2689.9	2655.2	2604.4	2549.0	2470.5
42.5°	2525.9	2519.0	2509.8	2514.3	2493.6	2477.4	2435.8	2392.0	2327.3	2235.0	2140.3
45°	2253.5	2251.2	2246.5	2244.3	2230.4	2214.2	2179.5	2128.8	2057.2	1962.6	1849.4
47.5°	1987.9	1981.0	1981.0	1983.3	1967.1	1964.9	1937.1	1893.3	1830.9	1738.6	1620.8
50°	1733.9	1731.6	1736.3	1745.5	1733.9	1729.4	1710.9	1680.9	1625.5	1547.0	1436.1
52.5°	1505.4	1503.1	1507.7	1519.2	1514.6	1519.2	1500.8	1477.7	1440.7	1364.5	1267.6
55°	1281.5	1281.5	1281.5	1295.2	1295.2	1295.2	1286.0	1272.2	1237.5	1182.1	1092.1
57.5°	1048.2	1050.5	1064.4	1066.7	1064.4	1069.1	1066.7	1052.8	1029.8	990.6	921.3
60°	852.0	852.0	858.9	865.9	863.5	865.9	865.9	858.9	835.8	803.5	748.1
62.5°	674.2	681.1	676.5	681.1	690.3	681.1	676.5	671.9	655.7	634.9	588.7
65°	510.2	514.9	514.9	517.2	512.5	514.9	505.7	498.7	489.5	466.4	436.4
67.5°	387.9	387.9	387.9	387.9	385.6	383.3	381.0	374.1	357.9	348.7	316.3
70°	297.8	284.0	284.0	284.0	284.0	286.3	279.4	270.2	265.5	249.4	226.3
72.5°	198.5	203.2	198.5	198.5	194.0	196.2	187.0	182.4	177.8	168.6	154.7
75°	143.1	131.6	136.2	138.6	131.6	136.2	127.0	117.7	117.7	110.8	103.9
77.5°	92.4	90.1	92.4	94.7	92.4	90.1	85.4	80.8	80.8	78.5	71.6
80°	67.0	64.6	64.6	64.6	62.3	64.6	60.1	60.1	55.4	53.1	48.5
82.5°	43.9	43.9	41.5	43.9	41.5	43.9	37.0	37.0	37.0	34.6	30.0
85°	30.0	25.4	25.4	27.8	23.1	27.8	25.4	23.1	20.8	20.8	18.4
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



TEST NUMBER: P248985

CATALOG NUMBER: LD8B80D010 ER8B80830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6
2.5°	4705.5	4707.8	4707.8	4717.1	4721.6	4723.9	4723.9	4742.4	4735.5	4740.2	4744.7
5°	4638.6	4652.4	4657.0	4657.0	4682.4	4691.6	4700.8	4721.6	4723.9	4737.8	4753.9
7.5°	4573.9	4590.0	4599.3	4620.0	4636.2	4652.4	4680.1	4694.0	4707.8	4726.3	4747.0
10°	4511.5	4530.0	4548.5	4564.6	4590.0	4610.8	4629.3	4661.6	4677.8	4703.2	4730.8
12.5°	4451.5	4476.9	4493.1	4520.7	4548.5	4566.9	4594.7	4624.7	4650.1	4675.4	4707.8
15°	4398.4	4428.4	4446.9	4476.9	4506.9	4532.3	4562.4	4599.3	4617.8	4647.8	4677.8
17.5°	4340.6	4373.0	4396.1	4423.8	4460.8	4488.4	4513.9	4550.8	4573.9	4606.2	4640.9
20°	4280.7	4313.0	4340.6	4368.4	4405.4	4433.0	4463.0	4500.0	4525.4	4557.7	4585.4
22.5°	4209.1	4239.1	4269.1	4301.4	4338.4	4361.4	4396.1	4428.4	4456.1	4486.1	4513.9
25°	4116.7	4153.7	4176.8	4206.7	4236.8	4262.1	4299.1	4331.4	4354.5	4382.3	4407.6
27.5°	4008.2	4036.0	4054.4	4079.8	4109.8	4132.9	4160.5	4193.0	4216.0	4241.4	4259.9
30°	3823.5	3848.9	3865.1	3883.5	3913.5	3934.4	3957.5	3987.4	4003.5	4022.1	4038.2
32.5°	3581.0	3601.8	3611.1	3624.9	3645.7	3666.5	3685.0	3710.4	3717.3	3728.8	3728.8
35°	3230.1	3234.7	3232.4	3237.1	3246.3	3257.8	3274.0	3290.1	3299.3	3299.3	3292.5
37.5°	2819.1	2791.5	2761.4	2738.3	2731.4	2726.7	2736.1	2742.9	2752.2	2756.8	2745.3
40°	2392.0	2329.7	2262.7	2202.6	2161.1	2142.7	2135.7	2140.3	2140.3	2156.4	2156.4
42.5°	2024.9	1927.9	1828.7	1738.6	1678.5	1632.4	1611.6	1611.6	1613.9	1625.5	1632.4
45°	1720.1	1597.7	1482.3	1383.0	1299.9	1239.8	1212.2	1205.2	1203.0	1207.5	1223.7
47.5°	1486.9	1360.0	1239.8	1117.5	1029.8	969.7	944.4	935.1	925.8	935.1	937.4
50°	1304.5	1172.9	1046.0	923.6	831.2	778.1	745.7	731.9	729.6	729.6	734.2
52.5°	1138.2	1015.9	889.0	764.3	667.2	616.5	586.5	579.5	570.3	579.5	579.5
55°	981.2	858.9	734.2	616.5	535.6	482.6	454.8	445.6	441.0	447.9	447.9
57.5°	810.5	706.5	591.1	484.9	404.1	367.1	346.3	334.8	332.4	337.1	332.4
60°	665.0	577.2	477.9	381.0	318.7	279.4	263.2	258.6	253.9	258.6	258.6
62.5°	526.4	452.6	371.7	297.8	244.7	217.1	198.5	198.5	196.2	196.2	198.5
65°	390.2	332.4	274.7	212.4	170.9	150.1	136.2	136.2	133.9	136.2	133.9
67.5°	284.0	244.7	198.5	154.7	122.4	110.8	101.6	94.7	99.3	94.7	92.4
70°	207.8	175.4	143.1	117.7	94.7	83.2	76.2	73.8	69.3	69.3	69.3
72.5°	138.6	117.7	96.9	76.2	62.3	50.7	48.5	43.9	39.2	41.5	46.2
75°	92.4	78.5	69.3	55.4	41.5	41.5	27.8	27.8	23.1	27.8	20.8
77.5°	64.6	53.1	41.5	34.6	27.8	25.4	18.4	18.4	16.2	16.2	16.2
80°	46.2	39.2	30.0	25.4	18.4	18.4	16.2	13.9	11.5	11.5	13.9
82.5°	27.8	20.8	20.8	18.4	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



TEST NUMBER: P248985

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6
2.5°	4756.3	4753.9	4758.6	4758.6	4772.5	4770.1	4777.0	4777.0	4772.5	4774.8	4784.0
5°	4772.5	4779.4	4793.2	4804.8	4825.5	4834.8	4846.3	4857.9	4860.2	4867.1	4874.1
7.5°	4772.5	4795.6	4811.7	4832.4	4860.2	4876.3	4901.7	4922.5	4931.8	4943.3	4957.1
10°	4763.2	4786.3	4816.3	4839.4	4874.1	4899.4	4924.8	4957.1	4971.0	4989.4	5008.0
12.5°	4744.7	4770.1	4802.4	4832.4	4871.7	4894.8	4927.1	4957.1	4977.9	5003.3	5024.1
15°	4717.1	4747.0	4777.0	4807.1	4848.6	4876.3	4906.4	4941.0	4961.8	4989.4	5008.0
17.5°	4673.2	4705.5	4733.2	4760.9	4800.1	4832.4	4860.2	4892.5	4913.3	4936.4	4961.8
20°	4620.0	4650.1	4680.1	4703.2	4742.4	4770.1	4800.1	4830.2	4846.3	4851.0	4890.2
22.5°	4553.1	4573.9	4596.9	4633.9	4657.0	4682.4	4710.1	4737.8	4753.9	4779.4	4793.2
25°	4442.2	4463.0	4488.4	4504.6	4532.3	4553.1	4580.8	4610.8	4620.0	4638.6	4652.4
27.5°	4287.6	4299.1	4310.7	4324.5	4340.6	4352.2	4368.4	4382.3	4391.5	4400.7	4409.9
30°	4042.8	4042.8	4042.8	4033.6	4040.5	4047.5	4049.7	4047.5	4047.5	4045.2	4045.2
32.5°	3719.6	3701.1	3680.3	3661.9	3655.0	3645.7	3641.1	3634.1	3622.6	3615.7	3618.0
35°	3283.2	3241.6	3216.3	3193.2	3174.7	3160.9	3153.9	3147.0	3144.7	3135.5	3126.2
37.5°	2738.3	2708.3	2689.9	2676.0	2659.8	2646.0	2648.2	2650.6	2657.5	2652.9	2655.2
40°	2161.1	2154.2	2161.1	2144.9	2140.3	2144.9	2156.4	2172.7	2181.9	2191.1	2207.3
42.5°	1643.9	1655.4	1671.7	1671.7	1678.5	1687.8	1701.6	1727.1	1740.9	1757.0	1775.5
45°	1237.5	1251.4	1272.2	1279.1	1283.7	1295.2	1311.5	1332.2	1341.4	1355.3	1371.5
47.5°	953.6	962.8	974.3	985.9	997.4	1002.1	1018.2	1018.2	1029.8	1039.0	1043.6
50°	743.5	752.7	761.9	768.8	773.5	780.4	785.0	791.9	794.2	798.9	801.1
52.5°	581.8	593.4	593.4	598.0	604.9	611.8	609.6	611.8	614.1	614.1	621.1
55°	454.8	454.8	461.8	461.8	466.4	464.1	466.4	466.4	466.4	466.4	468.7
57.5°	339.4	341.7	348.7	344.0	341.7	346.3	341.7	346.3	344.0	348.7	341.7
60°	260.9	260.9	263.2	263.2	265.5	265.5	265.5	263.2	263.2	260.9	260.9
62.5°	196.2	198.5	200.9	198.5	198.5	198.5	196.2	196.2	194.0	191.6	191.6
65°	131.6	129.3	133.9	129.3	131.6	131.6	129.3	131.6	124.7	127.0	124.7
67.5°	94.7	92.4	90.1	92.4	90.1	87.7	87.7	90.1	92.4	85.4	85.4
70°	62.3	64.6	62.3	64.6	67.0	67.0	64.6	62.3	64.6	60.1	62.3
72.5°	39.2	39.2	39.2	39.2	39.2	41.5	41.5	41.5	37.0	37.0	34.6
75°	18.4	25.4	20.8	18.4	25.4	25.4	23.1	23.1	20.8	20.8	20.8
77.5°	18.4	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: P248985

CATALOG NUMBER: LD8B80D010 ER8B80830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6
2.5°	4781.7	4779.4	4781.7	4784.0	4781.7	4779.4	4781.7	4784.0	4774.8	4772.5	4777.0
5°	4883.3	4883.3	4887.8	4890.2	4887.8	4883.3	4883.3	4874.1	4867.1	4860.2	4857.9
7.5°	4971.0	4975.7	4980.2	4982.5	4980.2	4975.7	4971.0	4957.1	4943.3	4931.8	4922.5
10°	5024.1	5031.1	5040.3	5044.8	5040.3	5031.1	5024.1	5008.0	4989.4	4971.0	4957.1
12.5°	5047.2	5054.2	5065.7	5063.4	5065.7	5054.2	5047.2	5024.1	5003.3	4977.9	4957.1
15°	5031.1	5040.3	5051.8	5056.4	5051.8	5040.3	5031.1	5008.0	4989.4	4961.8	4941.0
17.5°	4980.2	4994.1	5001.0	5008.0	5001.0	4994.1	4980.2	4961.8	4936.4	4913.3	4892.5
20°	4910.9	4920.3	4929.5	4931.8	4929.5	4920.3	4910.9	4890.2	4851.0	4846.3	4830.2
22.5°	4811.7	4818.7	4839.4	4832.4	4839.4	4818.7	4811.7	4793.2	4779.4	4753.9	4737.8
25°	4668.5	4675.4	4677.8	4680.1	4677.8	4675.4	4668.5	4652.4	4638.6	4620.0	4610.8
27.5°	4421.5	4421.5	4426.1	4428.4	4426.1	4421.5	4421.5	4409.9	4400.7	4391.5	4382.3
30°	4047.5	4047.5	4047.5	4059.0	4047.5	4047.5	4047.5	4045.2	4045.2	4047.5	4047.5
32.5°	3615.7	3611.1	3606.5	3611.1	3606.5	3611.1	3615.7	3618.0	3615.7	3622.6	3634.1
35°	3126.2	3123.9	3130.8	3121.6	3130.8	3123.9	3126.2	3126.2	3135.5	3144.7	3147.0
37.5°	2657.5	2652.9	2662.1	2652.9	2662.1	2652.9	2657.5	2655.2	2652.9	2657.5	2650.6
40°	2211.9	2216.5	2216.5	2235.0	2216.5	2216.5	2211.9	2207.3	2191.1	2181.9	2172.7
42.5°	1784.8	1798.6	1794.0	1807.9	1794.0	1798.6	1784.8	1775.5	1757.0	1740.9	1727.1
45°	1380.7	1390.0	1390.0	1394.5	1390.0	1390.0	1380.7	1371.5	1355.3	1341.4	1332.2
47.5°	1059.7	1059.7	1059.7	1062.1	1059.7	1059.7	1059.7	1043.6	1039.0	1029.8	1018.2
50°	805.8	808.1	810.5	812.7	810.5	808.1	805.8	801.1	798.9	794.2	791.9
52.5°	618.8	621.1	616.5	621.1	616.5	621.1	618.8	621.1	614.1	614.1	611.8
55°	468.7	466.4	468.7	471.0	468.7	466.4	468.7	468.7	466.4	466.4	466.4
57.5°	344.0	339.4	339.4	339.4	339.4	339.4	344.0	341.7	348.7	344.0	346.3
60°	256.3	258.6	258.6	260.9	258.6	258.6	256.3	260.9	260.9	263.2	263.2
62.5°	189.3	196.2	191.6	196.2	191.6	196.2	189.3	191.6	191.6	194.0	196.2
65°	122.4	122.4	122.4	124.7	122.4	122.4	122.4	124.7	127.0	124.7	131.6
67.5°	83.2	85.4	90.1	87.7	90.1	85.4	83.2	85.4	85.4	92.4	90.1
70°	67.0	60.1	60.1	67.0	60.1	60.1	67.0	62.3	60.1	64.6	62.3
72.5°	39.2	34.6	39.2	39.2	39.2	34.6	39.2	34.6	37.0	37.0	41.5
75°	20.8	18.4	16.2	23.1	16.2	18.4	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: P248985

CATALOG NUMBER: LD8B80D010 ER8B80830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6
2.5°	4777.0	4770.1	4772.5	4758.6	4758.6	4753.9	4756.3	4744.7	4740.2	4735.5	4742.4
5°	4846.3	4834.8	4825.5	4804.8	4793.2	4779.4	4772.5	4753.9	4737.8	4723.9	4721.6
7.5°	4901.7	4876.3	4860.2	4832.4	4811.7	4795.6	4772.5	4747.0	4726.3	4707.8	4694.0
10°	4924.8	4899.4	4874.1	4839.4	4816.3	4786.3	4763.2	4730.8	4703.2	4677.8	4661.6
12.5°	4927.1	4894.8	4871.7	4832.4	4802.4	4770.1	4744.7	4707.8	4675.4	4650.1	4624.7
15°	4906.4	4876.3	4848.6	4807.1	4777.0	4747.0	4717.1	4677.8	4647.8	4617.8	4599.3
17.5°	4860.2	4832.4	4800.1	4760.9	4733.2	4705.5	4673.2	4640.9	4606.2	4573.9	4550.8
20°	4800.1	4770.1	4742.4	4703.2	4680.1	4650.1	4620.0	4585.4	4557.7	4525.4	4500.0
22.5°	4710.1	4682.4	4657.0	4633.9	4596.9	4573.9	4553.1	4513.9	4486.1	4456.1	4428.4
25°	4580.8	4553.1	4532.3	4504.6	4488.4	4463.0	4442.2	4407.6	4382.3	4354.5	4331.4
27.5°	4368.4	4352.2	4340.6	4324.5	4310.7	4299.1	4287.6	4259.9	4241.4	4216.0	4193.0
30°	4049.7	4047.5	4040.5	4033.6	4042.8	4042.8	4042.8	4038.2	4022.1	4003.5	3987.4
32.5°	3641.1	3645.7	3655.0	3661.9	3680.3	3701.1	3719.6	3728.8	3728.8	3717.3	3710.4
35°	3153.9	3160.9	3174.7	3193.2	3216.3	3241.6	3283.2	3292.5	3299.3	3299.3	3290.1
37.5°	2648.2	2646.0	2659.8	2676.0	2689.9	2708.3	2738.3	2745.3	2756.8	2752.2	2742.9
40°	2156.4	2144.9	2140.3	2144.9	2161.1	2154.2	2161.1	2156.4	2156.4	2140.3	2140.3
42.5°	1701.6	1687.8	1678.5	1671.7	1671.7	1655.4	1643.9	1632.4	1625.5	1613.9	1611.6
45°	1311.5	1295.2	1283.7	1279.1	1272.2	1251.4	1237.5	1223.7	1207.5	1203.0	1205.2
47.5°	1018.2	1002.1	997.4	985.9	974.3	962.8	953.6	937.4	935.1	925.8	935.1
50°	785.0	780.4	773.5	768.8	761.9	752.7	743.5	734.2	729.6	729.6	731.9
52.5°	609.6	611.8	604.9	598.0	593.4	593.4	581.8	579.5	579.5	570.3	579.5
55°	466.4	464.1	466.4	461.8	461.8	454.8	454.8	447.9	447.9	441.0	445.6
57.5°	341.7	346.3	341.7	344.0	348.7	341.7	339.4	332.4	337.1	332.4	334.8
60°	265.5	265.5	265.5	263.2	263.2	260.9	260.9	258.6	258.6	253.9	258.6
62.5°	196.2	198.5	198.5	198.5	200.9	198.5	196.2	198.5	196.2	196.2	198.5
65°	129.3	131.6	131.6	129.3	133.9	129.3	131.6	133.9	136.2	133.9	136.2
67.5°	87.7	87.7	90.1	92.4	90.1	92.4	94.7	92.4	94.7	99.3	94.7
70°	64.6	67.0	67.0	64.6	62.3	64.6	62.3	69.3	69.3	69.3	73.8
72.5°	41.5	41.5	39.2	39.2	39.2	39.2	39.2	46.2	41.5	39.2	43.9
75°	23.1	25.4	25.4	18.4	20.8	25.4	18.4	20.8	27.8	23.1	27.8
77.5°	13.9	13.9	13.9	13.9	13.9	13.9	18.4	16.2	16.2	16.2	18.4
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: P248985

CATALOG NUMBER: LD8B80D010 ER8B80830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6
2.5°	4723.9	4723.9	4721.6	4717.1	4707.8	4707.8	4705.5	4698.5	4694.0	4691.6	4691.6
5°	4700.8	4691.6	4682.4	4657.0	4657.0	4652.4	4638.6	4629.3	4624.7	4613.1	4608.5
7.5°	4680.1	4652.4	4636.2	4620.0	4599.3	4590.0	4573.9	4566.9	4550.8	4539.3	4532.3
10°	4629.3	4610.8	4590.0	4564.6	4548.5	4530.0	4511.5	4497.7	4476.9	4465.3	4456.1
12.5°	4594.7	4566.9	4548.5	4520.7	4493.1	4476.9	4451.5	4435.4	4414.6	4391.5	4377.6
15°	4562.4	4532.3	4506.9	4476.9	4446.9	4428.4	4398.4	4380.0	4349.9	4326.9	4310.7
17.5°	4513.9	4488.4	4460.8	4423.8	4396.1	4373.0	4340.6	4317.6	4289.9	4259.9	4243.7
20°	4463.0	4433.0	4405.4	4368.4	4340.6	4313.0	4280.7	4255.3	4222.9	4195.2	4176.8
22.5°	4396.1	4361.4	4338.4	4301.4	4269.1	4239.1	4209.1	4179.1	4149.0	4126.0	4105.1
25°	4299.1	4262.1	4236.8	4206.7	4176.8	4153.7	4116.7	4098.3	4068.3	4047.5	4026.6
27.5°	4160.5	4132.9	4109.8	4079.8	4054.4	4036.0	4008.2	3989.8	3964.3	3945.9	3929.7
30°	3957.5	3934.4	3913.5	3883.5	3865.1	3848.9	3823.5	3807.3	3788.9	3768.0	3763.5
32.5°	3685.0	3666.5	3645.7	3624.9	3611.1	3601.8	3581.0	3571.8	3553.4	3541.8	3530.3
35°	3274.0	3257.8	3246.3	3237.1	3232.4	3234.7	3230.1	3239.4	3243.9	3241.6	3243.9
37.5°	2736.1	2726.7	2731.4	2738.3	2761.4	2791.5	2819.1	2860.7	2888.4	2916.2	2941.5
40°	2135.7	2142.7	2161.1	2202.6	2262.7	2329.7	2392.0	2470.5	2549.0	2604.4	2655.2
42.5°	1611.6	1632.4	1678.5	1738.6	1828.7	1927.9	2024.9	2140.3	2235.0	2327.3	2392.0
45°	1212.2	1239.8	1299.9	1383.0	1482.3	1597.7	1720.1	1849.4	1962.6	2057.2	2128.8
47.5°	944.4	969.7	1029.8	1117.5	1239.8	1360.0	1486.9	1620.8	1738.6	1830.9	1893.3
50°	745.7	778.1	831.2	923.6	1046.0	1172.9	1304.5	1436.1	1547.0	1625.5	1680.9
52.5°	586.5	616.5	667.2	764.3	889.0	1015.9	1138.2	1267.6	1364.5	1440.7	1477.7
55°	454.8	482.6	535.6	616.5	734.2	858.9	981.2	1092.1	1182.1	1237.5	1272.2
57.5°	346.3	367.1	404.1	484.9	591.1	706.5	810.5	921.3	990.6	1029.8	1052.8
60°	263.2	279.4	318.7	381.0	477.9	577.2	665.0	748.1	803.5	835.8	858.9
62.5°	198.5	217.1	244.7	297.8	371.7	452.6	526.4	588.7	634.9	655.7	671.9
65°	136.2	150.1	170.9	212.4	274.7	332.4	390.2	436.4	466.4	489.5	498.7
67.5°	101.6	110.8	122.4	154.7	198.5	244.7	284.0	316.3	348.7	357.9	374.1
70°	76.2	83.2	94.7	117.7	143.1	175.4	207.8	226.3	249.4	265.5	270.2
72.5°	48.5	50.7	62.3	76.2	96.9	117.7	138.6	154.7	168.6	177.8	182.4
75°	27.8	41.5	41.5	55.4	69.3	78.5	92.4	103.9	110.8	117.7	117.7
77.5°	18.4	25.4	27.8	34.6	41.5	53.1	64.6	71.6	78.5	80.8	80.8
80°	16.2	18.4	18.4	25.4	30.0	39.2	46.2	48.5	53.1	55.4	60.1
82.5°	6.9	9.2	11.5	18.4	20.8	20.8	27.8	30.0	34.6	37.0	37.0
85°	2.3	4.7	4.7	6.9	11.5	13.9	16.2	18.4	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: P248985

CATALOG NUMBER: LD8B80D010 ER8B80830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6
2.5°	4687.0	4689.3	4680.1	4677.8	4673.2	4675.4	4680.1
5°	4601.6	4603.9	4594.7	4585.4	4585.4	4583.1	4585.4
7.5°	4520.7	4523.1	4509.2	4504.6	4495.4	4497.7	4497.7
10°	4439.9	4439.9	4419.2	4416.9	4409.9	4407.6	4407.6
12.5°	4361.4	4354.5	4338.4	4329.1	4333.8	4319.9	4319.9
15°	4292.2	4280.7	4259.9	4252.9	4241.4	4236.8	4236.8
17.5°	4220.6	4211.4	4193.0	4179.1	4165.2	4162.9	4165.2
20°	4151.3	4142.1	4119.0	4109.8	4098.3	4098.3	4093.6
22.5°	4082.0	4072.8	4052.1	4045.2	4029.0	4029.0	4031.3
25°	4010.5	4003.5	3980.5	3975.9	3973.6	3964.3	3969.0
27.5°	3913.5	3908.9	3890.5	3883.5	3874.3	3872.0	3876.6
30°	3735.7	3728.8	3715.0	3708.1	3691.9	3694.2	3698.8
32.5°	3514.1	3504.9	3486.4	3479.4	3465.6	3461.0	3463.3
35°	3237.1	3230.1	3214.0	3214.0	3200.1	3195.5	3200.1
37.5°	2955.4	2962.2	2955.4	2962.2	2955.4	2953.0	2955.4
40°	2689.9	2715.2	2719.8	2745.3	2736.1	2749.8	2747.6
42.5°	2435.8	2477.4	2493.6	2514.3	2509.8	2519.0	2525.9
45°	2179.5	2214.2	2230.4	2244.3	2246.5	2251.2	2253.5
47.5°	1937.1	1964.9	1967.1	1983.3	1981.0	1981.0	1987.9
50°	1710.9	1729.4	1733.9	1745.5	1736.3	1731.6	1733.9
52.5°	1500.8	1519.2	1514.6	1519.2	1507.7	1503.1	1505.4
55°	1286.0	1295.2	1295.2	1295.2	1281.5	1281.5	1281.5
57.5°	1066.7	1069.1	1064.4	1066.7	1064.4	1050.5	1048.2
60°	865.9	865.9	863.5	865.9	858.9	852.0	852.0
62.5°	676.5	681.1	690.3	681.1	676.5	681.1	674.2
65°	505.7	514.9	512.5	517.2	514.9	514.9	510.2
67.5°	381.0	383.3	385.6	387.9	387.9	387.9	387.9
70°	279.4	286.3	284.0	284.0	284.0	284.0	297.8
72.5°	187.0	196.2	194.0	198.5	198.5	203.2	198.5
75°	127.0	136.2	131.6	138.6	136.2	131.6	143.1
77.5°	85.4	90.1	92.4	94.7	92.4	90.1	92.4
80°	60.1	64.6	62.3	64.6	64.6	64.6	67.0
82.5°	37.0	43.9	41.5	43.9	41.5	43.9	43.9
85°	25.4	27.8	23.1	27.8	25.4	25.4	30.0
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)