

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: P248994

Luminaire Tested: **LD8B80D010 ER8B80835 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248994
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 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8283.0 lumens
Efficiency: N/A
Efficacy: 111.3 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

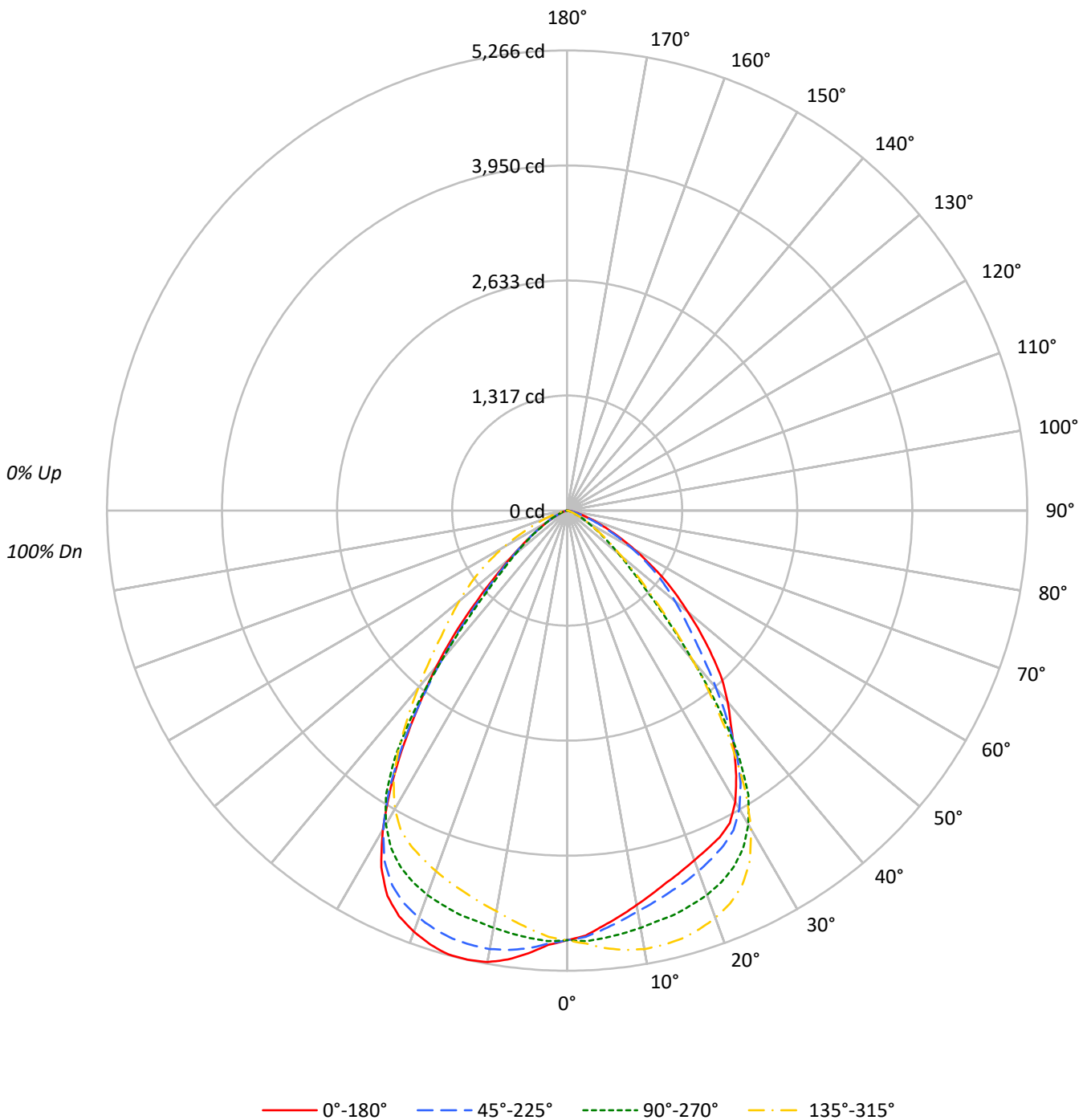
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	151634	151634	151634	151634
5°	147605	151988	157417	151988
10°	143522	151791	164272	151791
15°	140654	152690	167867	152690
20°	139698	153566	168300	153566
25°	140431	153255	165595	153255
30°	136958	147647	150299	147647
35°	125276	128800	122201	128800
40°	115018	89593	93562	89593
45°	102194	54660	63242	54660
50°	86500	36512	40547	36512
55°	71643	24913	26332	24913
60°	54642	16584	16732	16584
65°	38715	10332	9464	10332
70°	27922	6924	6284	6924
75°	17728	3443	2859	3443
80°	12377	2557	2131	2557
85°	11039	0	849	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.0	5.7
10°-20°	1355.4	16.4
20°-30°	2052.3	24.8
30°-40°	2056.9	24.8
40°-50°	1291.6	15.6
50°-60°	688.3	8.3
60°-70°	283.0	3.4
70°-80°	74.8	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°	3875.7	46.8
0°-40°	5932.6	71.6
0°-60°	7912.5	95.5
0°-90°	8283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8283.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4917	4917	4917	4917	4917	
5°	4768	4910	5086	4910	4768	450
15°	4406	4783	5258	4783	4406	1246
25°	4127	4504	4867	4504	4127	1893
35°	3328	3422	3246	3422	3328	2085
45°	2343	1253	1450	1253	2343	1802
55°	1333	463	490	463	1333	1188
65°	531	142	130	142	531	550
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°	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4
2.5°	4867.0	4862.1	4859.7	4864.6	4867.0	4876.5	4874.2	4878.9	4878.9	4881.4	4886.1
5°	4768.5	4766.0	4768.5	4768.5	4778.1	4787.7	4785.3	4792.5	4797.3	4809.3	4814.1
7.5°	4677.3	4677.3	4674.8	4684.4	4689.3	4703.7	4701.2	4713.3	4720.5	4732.4	4749.2
10°	4583.6	4583.6	4586.0	4593.2	4595.7	4617.2	4617.2	4634.0	4643.6	4655.7	4677.3
12.5°	4492.4	4492.4	4506.8	4502.0	4511.6	4528.4	4535.6	4552.4	4566.8	4590.8	4612.5
15°	4405.9	4405.9	4410.8	4422.7	4429.9	4451.6	4463.5	4482.8	4499.6	4523.6	4554.8
17.5°	4331.5	4329.1	4331.5	4345.9	4360.4	4379.5	4389.1	4413.1	4429.9	4461.2	4490.0
20°	4257.1	4261.9	4261.9	4273.9	4283.5	4307.5	4317.1	4343.6	4362.7	4391.5	4425.2
22.5°	4192.2	4189.9	4189.9	4206.7	4213.9	4235.4	4245.0	4269.0	4290.7	4314.7	4345.9
25°	4127.4	4122.6	4132.3	4134.6	4139.4	4163.4	4170.6	4187.4	4209.0	4230.7	4261.9
27.5°	4031.3	4026.6	4029.0	4038.6	4045.8	4065.0	4069.8	4086.6	4103.4	4122.6	4149.1
30°	3846.4	3841.7	3839.3	3856.1	3863.3	3877.7	3884.9	3913.7	3918.5	3940.1	3959.3
32.5°	3601.5	3599.2	3604.0	3618.3	3625.6	3644.8	3654.4	3671.2	3683.2	3695.2	3714.4
35°	3327.9	3323.0	3327.9	3342.3	3342.3	3359.1	3366.3	3373.4	3371.1	3373.4	3368.7
37.5°	3073.4	3070.9	3073.4	3080.5	3073.4	3080.5	3073.4	3059.0	3032.6	3003.7	2974.9
40°	2857.3	2859.6	2845.3	2854.9	2828.4	2823.7	2797.3	2761.2	2708.4	2650.8	2569.2
42.5°	2626.8	2619.6	2610.0	2614.7	2593.2	2576.3	2533.1	2487.5	2420.2	2324.3	2225.7
45°	2343.4	2341.1	2336.2	2333.9	2319.4	2302.6	2266.6	2213.8	2139.4	2040.9	1923.2
47.5°	2067.3	2060.1	2060.1	2062.5	2045.7	2043.3	2014.4	1968.9	1904.0	1808.0	1685.5
50°	1803.1	1800.8	1805.6	1815.2	1803.1	1798.4	1779.2	1748.0	1690.4	1608.7	1493.4
52.5°	1565.5	1563.1	1567.9	1579.9	1575.0	1579.9	1560.7	1536.7	1498.3	1419.0	1318.2
55°	1332.6	1332.6	1332.6	1346.9	1346.9	1346.9	1337.4	1323.0	1287.0	1229.3	1135.7
57.5°	1090.1	1092.5	1106.9	1109.3	1106.9	1111.7	1109.3	1094.8	1070.9	1030.1	958.1
60°	886.0	886.0	893.2	900.4	898.0	900.4	900.4	893.2	869.2	835.6	778.0
62.5°	701.1	708.3	703.5	708.3	717.9	708.3	703.5	698.7	681.9	660.3	612.2
65°	530.6	535.5	535.5	537.8	533.0	535.5	525.9	518.7	509.1	485.1	453.8
67.5°	403.4	403.4	403.4	403.4	401.0	398.6	396.2	389.0	372.2	362.6	328.9
70°	309.7	295.3	295.3	295.3	295.3	297.8	290.6	281.0	276.1	259.3	235.3
72.5°	206.5	211.3	206.5	206.5	201.7	204.1	194.5	189.7	184.9	175.3	160.9
75°	148.8	136.9	141.6	144.1	136.9	141.6	132.0	122.4	122.4	115.2	108.0
77.5°	96.1	93.7	96.1	98.4	96.1	93.7	88.8	84.0	84.0	81.6	74.4
80°	69.7	67.2	67.2	67.2	64.8	67.2	62.5	62.5	57.6	55.2	50.4
82.5°	45.7	45.7	43.2	45.7	43.2	45.7	38.4	38.4	38.4	36.0	31.2
85°	31.2	26.4	26.4	28.9	24.0	28.9	26.4	24.0	21.6	21.6	19.2
87.5°	14.4	16.8	14.4	16.8	14.4	14.4	16.8	14.4	14.4	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°	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4
2.5°	4893.3	4895.7	4895.7	4905.4	4910.1	4912.5	4912.5	4931.8	4924.6	4929.4	4934.2
5°	4823.8	4838.1	4842.9	4842.9	4869.3	4878.9	4888.5	4910.1	4912.5	4926.9	4943.7
7.5°	4756.5	4773.3	4782.9	4804.5	4821.3	4838.1	4867.0	4881.4	4895.7	4915.0	4936.5
10°	4691.6	4710.9	4730.1	4746.9	4773.3	4794.9	4814.1	4847.7	4864.6	4891.0	4919.7
12.5°	4629.3	4655.7	4672.5	4701.2	4730.1	4749.2	4778.1	4809.3	4835.7	4862.1	4895.7
15°	4574.0	4605.3	4624.4	4655.7	4686.9	4713.3	4744.5	4782.9	4802.1	4833.3	4864.6
17.5°	4513.9	4547.6	4571.6	4600.4	4638.9	4667.6	4694.1	4732.4	4756.5	4790.1	4826.1
20°	4451.6	4485.2	4513.9	4542.8	4581.2	4610.0	4641.2	4679.7	4706.1	4739.7	4768.5
22.5°	4377.2	4408.4	4439.5	4473.1	4511.6	4535.6	4571.6	4605.3	4634.0	4665.2	4694.1
25°	4281.1	4319.5	4343.6	4374.7	4405.9	4432.3	4470.7	4504.3	4528.4	4557.2	4583.6
27.5°	4168.2	4197.1	4216.3	4242.6	4273.9	4297.9	4326.7	4360.4	4384.4	4410.8	4429.9
30°	3976.1	4002.6	4019.4	4038.6	4069.8	4091.4	4115.5	4146.6	4163.4	4182.7	4199.5
32.5°	3724.0	3745.6	3755.2	3769.6	3791.3	3812.8	3832.1	3858.5	3865.7	3877.7	3877.7
35°	3359.1	3363.9	3361.5	3366.3	3375.9	3387.9	3404.7	3421.5	3431.1	3431.1	3423.9
37.5°	2931.7	2902.9	2871.7	2847.7	2840.5	2835.6	2845.3	2852.4	2862.1	2866.8	2854.9
40°	2487.5	2422.7	2353.0	2290.6	2247.4	2228.2	2221.0	2225.7	2225.7	2242.5	2242.5
42.5°	2105.8	2004.9	1901.7	1808.0	1745.5	1697.6	1675.9	1675.9	1678.3	1690.4	1697.6
45°	1788.8	1661.5	1541.4	1438.3	1351.8	1289.3	1260.6	1253.4	1251.0	1255.7	1272.5
47.5°	1546.3	1414.2	1289.3	1162.1	1070.9	1008.5	982.1	972.4	962.8	972.4	974.9
50°	1356.6	1219.8	1087.7	960.4	864.4	809.1	775.5	761.1	758.7	758.7	763.6
52.5°	1183.7	1056.5	924.5	794.8	693.9	641.1	609.9	602.7	593.1	602.7	602.7
55°	1020.4	893.2	763.6	641.1	557.0	501.9	473.0	463.4	458.6	465.8	465.8
57.5°	842.8	734.7	614.7	504.2	420.2	381.8	360.1	348.2	345.7	350.5	345.7
60°	691.5	600.3	497.0	396.2	331.4	290.6	273.8	268.9	264.1	268.9	268.9
62.5°	547.4	470.6	386.5	309.7	254.5	225.7	206.5	206.5	204.1	204.1	206.5
65°	405.8	345.7	285.7	220.9	177.7	156.1	141.6	141.6	139.3	141.6	139.3
67.5°	295.3	254.5	206.5	160.9	127.3	115.2	105.6	98.4	103.3	98.4	96.1
70°	216.1	182.4	148.8	122.4	98.4	86.5	79.3	76.8	72.0	72.0	72.0
72.5°	144.1	122.4	100.8	79.3	64.8	52.8	50.4	45.7	40.8	43.2	48.0
75°	96.1	81.6	72.0	57.6	43.2	43.2	28.9	28.9	24.0	28.9	21.6
77.5°	67.2	55.2	43.2	36.0	28.9	26.4	19.2	19.2	16.8	16.8	16.8
80°	48.0	40.8	31.2	26.4	19.2	19.2	16.8	14.4	12.0	12.0	14.4
82.5°	28.9	21.6	21.6	19.2	12.0	9.6	7.2	9.6	4.8	4.8	4.8
85°	16.8	14.4	12.0	7.2	4.8	4.8	2.4	0.0	2.4	2.4	0.0
87.5°	9.6	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°	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4
2.5°	4946.2	4943.7	4948.6	4948.6	4963.0	4960.5	4967.8	4967.8	4963.0	4965.4	4975.0
5°	4963.0	4970.2	4984.6	4996.6	5018.2	5027.8	5039.8	5051.9	5054.2	5061.4	5068.7
7.5°	4963.0	4987.0	5003.8	5025.4	5054.2	5071.0	5097.4	5119.1	5128.7	5140.6	5155.0
10°	4953.3	4977.3	5008.6	5032.6	5068.7	5095.1	5121.4	5155.0	5169.5	5188.6	5207.9
12.5°	4934.2	4960.5	4994.1	5025.4	5066.2	5090.2	5123.8	5155.0	5176.7	5203.1	5224.7
15°	4905.4	4936.5	4967.8	4999.0	5042.2	5071.0	5102.3	5138.2	5159.9	5188.6	5207.9
17.5°	4859.7	4893.3	4922.2	4951.0	4991.8	5025.4	5054.2	5087.8	5109.5	5133.5	5159.9
20°	4804.5	4835.7	4867.0	4891.0	4931.8	4960.5	4991.8	5023.0	5039.8	5044.6	5085.5
22.5°	4734.9	4756.5	4780.5	4818.9	4842.9	4869.3	4898.2	4926.9	4943.7	4970.2	4984.6
25°	4619.6	4641.2	4667.6	4684.4	4713.3	4734.9	4763.7	4794.9	4804.5	4823.8	4838.1
27.5°	4458.8	4470.7	4482.8	4497.1	4513.9	4526.0	4542.8	4557.2	4566.8	4576.4	4586.0
30°	4204.2	4204.2	4204.2	4194.6	4201.8	4209.0	4211.4	4209.0	4209.0	4206.7	4206.7
32.5°	3868.1	3848.9	3827.3	3808.1	3800.9	3791.3	3786.5	3779.2	3767.3	3760.1	3762.4
35°	3414.3	3371.1	3344.7	3320.7	3301.5	3287.1	3279.9	3272.6	3270.3	3260.7	3251.0
37.5°	2847.7	2816.4	2797.3	2782.8	2766.0	2751.6	2754.0	2756.5	2763.6	2758.8	2761.2
40°	2247.4	2240.2	2247.4	2230.6	2225.7	2230.6	2242.5	2259.4	2269.0	2278.6	2295.4
42.5°	1709.6	1721.5	1738.4	1738.4	1745.5	1755.2	1769.5	1796.0	1810.4	1827.2	1846.4
45°	1287.0	1301.4	1323.0	1330.1	1335.0	1346.9	1363.8	1385.4	1395.0	1409.4	1426.2
47.5°	991.7	1001.2	1013.2	1025.3	1037.2	1042.1	1058.9	1058.9	1070.9	1080.5	1085.2
50°	773.1	782.7	792.3	799.5	804.4	811.6	816.3	823.5	825.9	830.8	833.1
52.5°	605.0	617.1	617.1	621.8	629.0	636.3	633.9	636.3	638.6	638.6	645.9
55°	473.0	473.0	480.2	480.2	485.1	482.6	485.1	485.1	485.1	485.1	487.4
57.5°	352.9	355.4	362.6	357.8	355.4	360.1	355.4	360.1	357.8	362.6	355.4
60°	271.3	271.3	273.8	273.8	276.1	276.1	276.1	273.8	273.8	271.3	271.3
62.5°	204.1	206.5	208.9	206.5	206.5	206.5	204.1	204.1	201.7	199.2	199.2
65°	136.9	134.5	139.3	134.5	136.9	136.9	134.5	136.9	129.7	132.0	129.7
67.5°	98.4	96.1	93.7	96.1	93.7	91.2	91.2	93.7	96.1	88.8	88.8
70°	64.8	67.2	64.8	67.2	69.7	69.7	67.2	64.8	67.2	62.5	64.8
72.5°	40.8	40.8	40.8	40.8	40.8	43.2	43.2	43.2	38.4	38.4	36.0
75°	19.2	26.4	21.6	19.2	26.4	26.4	24.0	24.0	21.6	21.6	21.6
77.5°	19.2	14.4	14.4	14.4	14.4	14.4	14.4	14.4	12.0	14.4	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°	4.8	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: P248994

CATALOG NUMBER: LD8B80D010 ER8B80835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4
2.5°	4972.6	4970.2	4972.6	4975.0	4972.6	4970.2	4972.6	4975.0	4965.4	4963.0	4967.8
5°	5078.2	5078.2	5083.0	5085.5	5083.0	5078.2	5078.2	5068.7	5061.4	5054.2	5051.9
7.5°	5169.5	5174.3	5179.1	5181.4	5179.1	5174.3	5169.5	5155.0	5140.6	5128.7	5119.1
10°	5224.7	5231.9	5241.5	5246.3	5241.5	5231.9	5224.7	5207.9	5188.6	5169.5	5155.0
12.5°	5248.7	5255.9	5267.9	5265.5	5267.9	5255.9	5248.7	5224.7	5203.1	5176.7	5155.0
15°	5231.9	5241.5	5253.5	5258.3	5253.5	5241.5	5231.9	5207.9	5188.6	5159.9	5138.2
17.5°	5179.1	5193.5	5200.7	5207.9	5200.7	5193.5	5179.1	5159.9	5133.5	5109.5	5087.8
20°	5107.0	5116.7	5126.3	5128.7	5126.3	5116.7	5107.0	5085.5	5044.6	5039.8	5023.0
22.5°	5003.8	5011.0	5032.6	5025.4	5032.6	5011.0	5003.8	4984.6	4970.2	4943.7	4926.9
25°	4854.9	4862.1	4864.6	4867.0	4864.6	4862.1	4854.9	4838.1	4823.8	4804.5	4794.9
27.5°	4598.0	4598.0	4602.8	4605.3	4602.8	4598.0	4598.0	4586.0	4576.4	4566.8	4557.2
30°	4209.0	4209.0	4209.0	4221.1	4209.0	4209.0	4209.0	4206.7	4206.7	4209.0	4209.0
32.5°	3760.1	3755.2	3750.5	3755.2	3750.5	3755.2	3760.1	3762.4	3760.1	3767.3	3779.2
35°	3251.0	3248.6	3255.8	3246.2	3255.8	3248.6	3251.0	3251.0	3260.7	3270.3	3272.6
37.5°	2763.6	2758.8	2768.4	2758.8	2768.4	2758.8	2763.6	2761.2	2758.8	2763.6	2756.5
40°	2300.3	2305.0	2305.0	2324.3	2305.0	2305.0	2300.3	2295.4	2278.6	2269.0	2259.4
42.5°	1856.0	1870.4	1865.6	1880.0	1865.6	1870.4	1856.0	1846.4	1827.2	1810.4	1796.0
45°	1435.8	1445.5	1445.5	1450.2	1445.5	1445.5	1435.8	1426.2	1409.4	1395.0	1385.4
47.5°	1102.0	1102.0	1102.0	1104.5	1102.0	1102.0	1102.0	1085.2	1080.5	1070.9	1058.9
50°	838.0	840.3	842.8	845.2	842.8	840.3	838.0	833.1	830.8	825.9	823.5
52.5°	643.5	645.9	641.1	645.9	641.1	645.9	643.5	645.9	638.6	638.6	636.3
55°	487.4	485.1	487.4	489.8	487.4	485.1	487.4	487.4	485.1	485.1	485.1
57.5°	357.8	352.9	352.9	352.9	352.9	352.9	357.8	355.4	362.6	357.8	360.1
60°	266.5	268.9	268.9	271.3	268.9	268.9	266.5	271.3	271.3	273.8	273.8
62.5°	196.9	204.1	199.2	204.1	199.2	204.1	196.9	199.2	199.2	201.7	204.1
65°	127.3	127.3	127.3	129.7	127.3	127.3	127.3	129.7	132.0	129.7	136.9
67.5°	86.5	88.8	93.7	91.2	93.7	88.8	86.5	88.8	88.8	96.1	93.7
70°	69.7	62.5	62.5	69.7	62.5	62.5	69.7	64.8	62.5	67.2	64.8
72.5°	40.8	36.0	40.8	40.8	40.8	36.0	40.8	36.0	38.4	38.4	43.2
75°	21.6	19.2	16.8	24.0	16.8	19.2	21.6	21.6	21.6	21.6	24.0
77.5°	14.4	12.0	16.8	16.8	16.8	12.0	14.4	12.0	14.4	12.0	14.4
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	4.8	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: P248994

CATALOG NUMBER: LD8B80D010 ER8B80835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4
2.5°	4967.8	4960.5	4963.0	4948.6	4948.6	4943.7	4946.2	4934.2	4929.4	4924.6	4931.8
5°	5039.8	5027.8	5018.2	4996.6	4984.6	4970.2	4963.0	4943.7	4926.9	4912.5	4910.1
7.5°	5097.4	5071.0	5054.2	5025.4	5003.8	4987.0	4963.0	4936.5	4915.0	4895.7	4881.4
10°	5121.4	5095.1	5068.7	5032.6	5008.6	4977.3	4953.3	4919.7	4891.0	4864.6	4847.7
12.5°	5123.8	5090.2	5066.2	5025.4	4994.1	4960.5	4934.2	4895.7	4862.1	4835.7	4809.3
15°	5102.3	5071.0	5042.2	4999.0	4967.8	4936.5	4905.4	4864.6	4833.3	4802.1	4782.9
17.5°	5054.2	5025.4	4991.8	4951.0	4922.2	4893.3	4859.7	4826.1	4790.1	4756.5	4732.4
20°	4991.8	4960.5	4931.8	4891.0	4867.0	4835.7	4804.5	4768.5	4739.7	4706.1	4679.7
22.5°	4898.2	4869.3	4842.9	4818.9	4780.5	4756.5	4734.9	4694.1	4665.2	4634.0	4605.3
25°	4763.7	4734.9	4713.3	4684.4	4667.6	4641.2	4619.6	4583.6	4557.2	4528.4	4504.3
27.5°	4542.8	4526.0	4513.9	4497.1	4482.8	4470.7	4458.8	4429.9	4410.8	4384.4	4360.4
30°	4211.4	4209.0	4201.8	4194.6	4204.2	4204.2	4204.2	4199.5	4182.7	4163.4	4146.6
32.5°	3786.5	3791.3	3800.9	3808.1	3827.3	3848.9	3868.1	3877.7	3877.7	3865.7	3858.5
35°	3279.9	3287.1	3301.5	3320.7	3344.7	3371.1	3414.3	3423.9	3431.1	3431.1	3421.5
37.5°	2754.0	2751.6	2766.0	2782.8	2797.3	2816.4	2847.7	2854.9	2866.8	2862.1	2852.4
40°	2242.5	2230.6	2225.7	2230.6	2247.4	2240.2	2247.4	2242.5	2242.5	2225.7	2225.7
42.5°	1769.5	1755.2	1745.5	1738.4	1738.4	1721.5	1709.6	1697.6	1690.4	1678.3	1675.9
45°	1363.8	1346.9	1335.0	1330.1	1323.0	1301.4	1287.0	1272.5	1255.7	1251.0	1253.4
47.5°	1058.9	1042.1	1037.2	1025.3	1013.2	1001.2	991.7	974.9	972.4	962.8	972.4
50°	816.3	811.6	804.4	799.5	792.3	782.7	773.1	763.6	758.7	758.7	761.1
52.5°	633.9	636.3	629.0	621.8	617.1	617.1	605.0	602.7	602.7	593.1	602.7
55°	485.1	482.6	485.1	480.2	480.2	473.0	473.0	465.8	465.8	458.6	463.4
57.5°	355.4	360.1	355.4	357.8	362.6	355.4	352.9	345.7	350.5	345.7	348.2
60°	276.1	276.1	276.1	273.8	273.8	271.3	271.3	268.9	268.9	264.1	268.9
62.5°	204.1	206.5	206.5	206.5	208.9	206.5	204.1	206.5	204.1	204.1	206.5
65°	134.5	136.9	136.9	134.5	139.3	134.5	136.9	139.3	141.6	139.3	141.6
67.5°	91.2	91.2	93.7	96.1	93.7	96.1	98.4	96.1	98.4	103.3	98.4
70°	67.2	69.7	69.7	67.2	64.8	67.2	64.8	72.0	72.0	72.0	76.8
72.5°	43.2	43.2	40.8	40.8	40.8	40.8	40.8	48.0	43.2	40.8	45.7
75°	24.0	26.4	26.4	19.2	21.6	26.4	19.2	21.6	28.9	24.0	28.9
77.5°	14.4	14.4	14.4	14.4	14.4	14.4	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	14.4	12.0	12.0	14.4
82.5°	4.8	4.8	2.4	0.0	4.8	4.8	4.8	4.8	4.8	4.8	9.6
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	4.8	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: P248994

CATALOG NUMBER: LD8B80D010 ER8B80835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4
2.5°	4912.5	4912.5	4910.1	4905.4	4895.7	4895.7	4893.3	4886.1	4881.4	4878.9	4878.9
5°	4888.5	4878.9	4869.3	4842.9	4842.9	4838.1	4823.8	4814.1	4809.3	4797.3	4792.5
7.5°	4867.0	4838.1	4821.3	4804.5	4782.9	4773.3	4756.5	4749.2	4732.4	4720.5	4713.3
10°	4814.1	4794.9	4773.3	4746.9	4730.1	4710.9	4691.6	4677.3	4655.7	4643.6	4634.0
12.5°	4778.1	4749.2	4730.1	4701.2	4672.5	4655.7	4629.3	4612.5	4590.8	4566.8	4552.4
15°	4744.5	4713.3	4686.9	4655.7	4624.4	4605.3	4574.0	4554.8	4523.6	4499.6	4482.8
17.5°	4694.1	4667.6	4638.9	4600.4	4571.6	4547.6	4513.9	4490.0	4461.2	4429.9	4413.1
20°	4641.2	4610.0	4581.2	4542.8	4513.9	4485.2	4451.6	4425.2	4391.5	4362.7	4343.6
22.5°	4571.6	4535.6	4511.6	4473.1	4439.5	4408.4	4377.2	4345.9	4314.7	4290.7	4269.0
25°	4470.7	4432.3	4405.9	4374.7	4343.6	4319.5	4281.1	4261.9	4230.7	4209.0	4187.4
27.5°	4326.7	4297.9	4273.9	4242.6	4216.3	4197.1	4168.2	4149.1	4122.6	4103.4	4086.6
30°	4115.5	4091.4	4069.8	4038.6	4019.4	4002.6	3976.1	3959.3	3940.1	3918.5	3913.7
32.5°	3832.1	3812.8	3791.3	3769.6	3755.2	3745.6	3724.0	3714.4	3695.2	3683.2	3671.2
35°	3404.7	3387.9	3375.9	3366.3	3361.5	3363.9	3359.1	3368.7	3373.4	3371.1	3373.4
37.5°	2845.3	2835.6	2840.5	2847.7	2871.7	2902.9	2931.7	2974.9	3003.7	3032.6	3059.0
40°	2221.0	2228.2	2247.4	2290.6	2353.0	2422.7	2487.5	2569.2	2650.8	2708.4	2761.2
42.5°	1675.9	1697.6	1745.5	1808.0	1901.7	2004.9	2105.8	2225.7	2324.3	2420.2	2487.5
45°	1260.6	1289.3	1351.8	1438.3	1541.4	1661.5	1788.8	1923.2	2040.9	2139.4	2213.8
47.5°	982.1	1008.5	1070.9	1162.1	1289.3	1414.2	1546.3	1685.5	1808.0	1904.0	1968.9
50°	775.5	809.1	864.4	960.4	1087.7	1219.8	1356.6	1493.4	1608.7	1690.4	1748.0
52.5°	609.9	641.1	693.9	794.8	924.5	1056.5	1183.7	1318.2	1419.0	1498.3	1536.7
55°	473.0	501.9	557.0	641.1	763.6	893.2	1020.4	1135.7	1229.3	1287.0	1323.0
57.5°	360.1	381.8	420.2	504.2	614.7	734.7	842.8	958.1	1030.1	1070.9	1094.8
60°	273.8	290.6	331.4	396.2	497.0	600.3	691.5	778.0	835.6	869.2	893.2
62.5°	206.5	225.7	254.5	309.7	386.5	470.6	547.4	612.2	660.3	681.9	698.7
65°	141.6	156.1	177.7	220.9	285.7	345.7	405.8	453.8	485.1	509.1	518.7
67.5°	105.6	115.2	127.3	160.9	206.5	254.5	295.3	328.9	362.6	372.2	389.0
70°	79.3	86.5	98.4	122.4	148.8	182.4	216.1	235.3	259.3	276.1	281.0
72.5°	50.4	52.8	64.8	79.3	100.8	122.4	144.1	160.9	175.3	184.9	189.7
75°	28.9	43.2	43.2	57.6	72.0	81.6	96.1	108.0	115.2	122.4	122.4
77.5°	19.2	26.4	28.9	36.0	43.2	55.2	67.2	74.4	81.6	84.0	84.0
80°	16.8	19.2	19.2	26.4	31.2	40.8	48.0	50.4	55.2	57.6	62.5
82.5°	7.2	9.6	12.0	19.2	21.6	21.6	28.9	31.2	36.0	38.4	38.4
85°	2.4	4.8	4.8	7.2	12.0	14.4	16.8	19.2	21.6	21.6	24.0
87.5°	2.4	2.4	0.0	2.4	4.8	4.8	9.6	9.6	9.6	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: P248994

CATALOG NUMBER: LD8B80D010 ER8B80835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4
2.5°	4874.2	4876.5	4867.0	4864.6	4859.7	4862.1	4867.0
5°	4785.3	4787.7	4778.1	4768.5	4768.5	4766.0	4768.5
7.5°	4701.2	4703.7	4689.3	4684.4	4674.8	4677.3	4677.3
10°	4617.2	4617.2	4595.7	4593.2	4586.0	4583.6	4583.6
12.5°	4535.6	4528.4	4511.6	4502.0	4506.8	4492.4	4492.4
15°	4463.5	4451.6	4429.9	4422.7	4410.8	4405.9	4405.9
17.5°	4389.1	4379.5	4360.4	4345.9	4331.5	4329.1	4331.5
20°	4317.1	4307.5	4283.5	4273.9	4261.9	4261.9	4257.1
22.5°	4245.0	4235.4	4213.9	4206.7	4189.9	4189.9	4192.2
25°	4170.6	4163.4	4139.4	4134.6	4132.3	4122.6	4127.4
27.5°	4069.8	4065.0	4045.8	4038.6	4029.0	4026.6	4031.3
30°	3884.9	3877.7	3863.3	3856.1	3839.3	3841.7	3846.4
32.5°	3654.4	3644.8	3625.6	3618.3	3604.0	3599.2	3601.5
35°	3366.3	3359.1	3342.3	3342.3	3327.9	3323.0	3327.9
37.5°	3073.4	3080.5	3073.4	3080.5	3073.4	3070.9	3073.4
40°	2797.3	2823.7	2828.4	2854.9	2845.3	2859.6	2857.3
42.5°	2533.1	2576.3	2593.2	2614.7	2610.0	2619.6	2626.8
45°	2266.6	2302.6	2319.4	2333.9	2336.2	2341.1	2343.4
47.5°	2014.4	2043.3	2045.7	2062.5	2060.1	2060.1	2067.3
50°	1779.2	1798.4	1803.1	1815.2	1805.6	1800.8	1803.1
52.5°	1560.7	1579.9	1575.0	1579.9	1567.9	1563.1	1565.5
55°	1337.4	1346.9	1346.9	1346.9	1332.6	1332.6	1332.6
57.5°	1109.3	1111.7	1106.9	1109.3	1106.9	1092.5	1090.1
60°	900.4	900.4	898.0	900.4	893.2	886.0	886.0
62.5°	703.5	708.3	717.9	708.3	703.5	708.3	701.1
65°	525.9	535.5	533.0	537.8	535.5	535.5	530.6
67.5°	396.2	398.6	401.0	403.4	403.4	403.4	403.4
70°	290.6	297.8	295.3	295.3	295.3	295.3	309.7
72.5°	194.5	204.1	201.7	206.5	206.5	211.3	206.5
75°	132.0	141.6	136.9	144.1	141.6	136.9	148.8
77.5°	88.8	93.7	96.1	98.4	96.1	93.7	96.1
80°	62.5	67.2	64.8	67.2	67.2	67.2	69.7
82.5°	38.4	45.7	43.2	45.7	43.2	45.7	45.7
85°	26.4	28.9	24.0	28.9	26.4	26.4	31.2
87.5°	16.8	14.4	14.4	16.8	14.4	16.8	14.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)