

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: P248544

Luminaire Tested: **LD8B80D010 ER8B80827 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248544
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 ER8B80827 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7853.0 lumens
Efficiency: N/A
Efficacy: 105.6 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

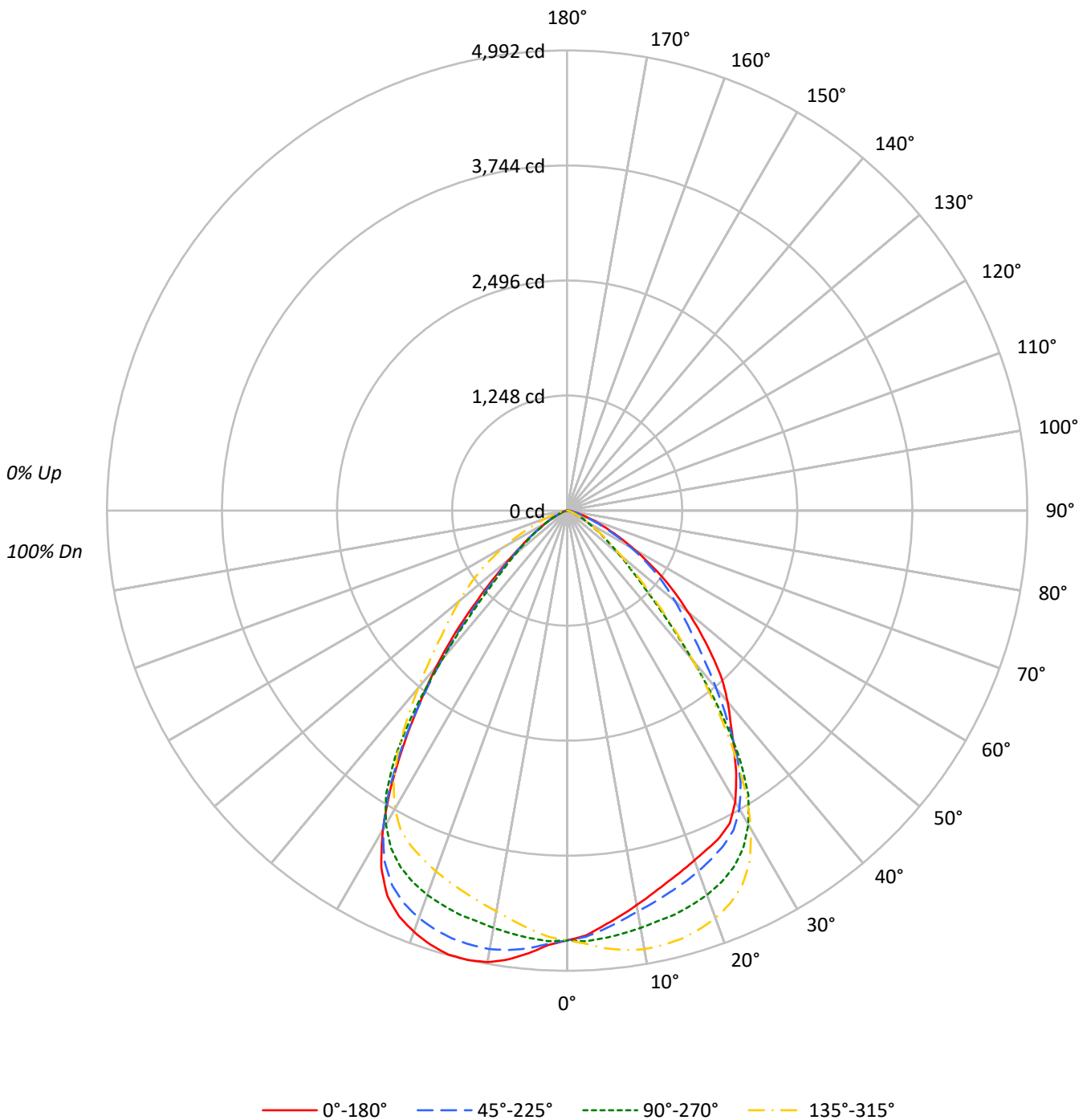
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	143762	143762	143762	143762
5°	139944	144098	149245	144098
10°	136073	143910	155743	143910
15°	133353	144763	159151	144763
20°	132446	145592	159561	145592
25°	133140	145300	156997	145300
30°	129851	139981	142498	139981
35°	118771	122114	115858	122114
40°	109044	84944	88704	84944
45°	96891	51821	59958	51821
50°	82009	34617	38441	34617
55°	67922	23623	24967	23623
60°	51805	15727	15862	15727
65°	36709	9799	8967	9799
70°	26480	6564	5960	6564
75°	16811	3265	2716	3265
80°	11738	2433	2007	2433
85°	10473	0	778	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.7	5.7
10°-20°	1285.0	16.4
20°-30°	1945.8	24.8
30°-40°	1950.1	24.8
40°-50°	1224.6	15.6
50°-60°	652.6	8.3
60°-70°	268.4	3.4
70°-80°	70.9	0.9
80°-90°	12.0	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°	3674.5	46.8
0°-40°	5624.6	71.6
0°-60°	7501.8	95.5
0°-90°	7853.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7853.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4662	4662	4662	4662	4662	
5°	4521	4655	4822	4655	4521	426
15°	4177	4535	4985	4535	4177	1181
25°	3913	4270	4614	4270	3913	1795
35°	3155	3244	3078	3244	3155	1977
45°	2222	1188	1375	1188	2222	1709
55°	1263	439	464	439	1263	1126
65°	503	134	123	134	503	522
75°	141	27	23	27	141	160
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°	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1
2.5°	4614.3	4609.7	4607.5	4612.0	4614.3	4623.4	4621.1	4625.6	4625.6	4628.0	4632.5
5°	4521.0	4518.6	4521.0	4521.0	4530.1	4539.1	4536.9	4543.7	4548.2	4559.7	4564.2
7.5°	4434.5	4434.5	4432.1	4441.2	4445.8	4459.5	4457.2	4468.6	4475.4	4486.8	4502.7
10°	4345.7	4345.7	4347.9	4354.7	4357.1	4377.5	4377.5	4393.4	4402.5	4414.0	4434.5
12.5°	4259.2	4259.2	4272.9	4268.3	4277.4	4293.3	4300.1	4316.0	4329.7	4352.5	4373.0
15°	4177.2	4177.2	4181.8	4193.1	4200.0	4220.5	4231.8	4250.1	4266.0	4288.8	4318.4
17.5°	4106.6	4104.4	4106.6	4120.3	4134.0	4152.2	4161.3	4184.0	4200.0	4229.6	4256.9
20°	4036.1	4040.7	4040.7	4052.0	4061.1	4083.9	4093.0	4118.1	4136.2	4163.5	4195.5
22.5°	3974.6	3972.4	3972.4	3988.3	3995.1	4015.6	4024.6	4047.4	4067.9	4090.7	4120.3
25°	3913.1	3908.6	3917.7	3920.0	3924.5	3947.2	3954.1	3970.0	3990.5	4011.1	4040.7
27.5°	3822.1	3817.6	3819.8	3828.9	3835.7	3853.9	3858.5	3874.4	3890.4	3908.6	3933.7
30°	3646.8	3642.3	3640.0	3655.9	3662.8	3676.4	3683.2	3710.6	3715.1	3735.6	3753.8
32.5°	3414.6	3412.3	3416.9	3430.5	3437.3	3455.6	3464.7	3480.6	3492.0	3503.4	3521.6
35°	3155.1	3150.5	3155.1	3168.8	3168.8	3184.7	3191.6	3198.3	3196.1	3198.3	3193.8
37.5°	2913.8	2911.5	2913.8	2920.6	2913.8	2920.6	2913.8	2900.2	2875.1	2847.8	2820.4
40°	2708.9	2711.2	2697.6	2706.7	2681.6	2677.1	2652.1	2617.9	2567.8	2513.2	2435.8
42.5°	2490.4	2483.6	2474.5	2479.0	2458.6	2442.5	2401.6	2358.4	2294.6	2203.6	2110.2
45°	2221.8	2219.5	2214.9	2212.7	2199.0	2183.1	2148.9	2098.9	2028.3	1935.0	1823.4
47.5°	1960.0	1953.2	1953.2	1955.4	1939.5	1937.2	1909.9	1866.7	1805.2	1714.1	1598.0
50°	1709.5	1707.3	1711.9	1721.0	1709.5	1705.0	1686.9	1657.3	1602.6	1525.2	1415.9
52.5°	1484.2	1481.9	1486.5	1497.9	1493.3	1497.9	1479.7	1456.9	1420.5	1345.3	1249.8
55°	1263.4	1263.4	1263.4	1277.0	1277.0	1277.0	1267.9	1254.3	1220.1	1165.5	1076.8
57.5°	1033.5	1035.7	1049.4	1051.7	1049.4	1054.0	1051.7	1038.0	1015.3	976.6	908.3
60°	840.0	840.0	846.8	853.7	851.3	853.7	853.7	846.8	824.1	792.2	737.6
62.5°	664.7	671.5	666.9	671.5	680.6	671.5	666.9	662.5	646.5	626.0	580.5
65°	503.1	507.7	507.7	509.9	505.3	507.7	498.6	491.7	482.6	459.9	430.3
67.5°	382.5	382.5	382.5	382.5	380.1	377.9	375.6	368.8	352.9	343.8	311.8
70°	293.7	280.0	280.0	280.0	280.0	282.3	275.5	266.4	261.8	245.9	223.1
72.5°	195.7	200.3	195.7	195.7	191.2	193.5	184.4	179.8	175.3	166.2	152.5
75°	141.1	129.8	134.3	136.6	129.8	134.3	125.2	116.1	116.1	109.3	102.4
77.5°	91.1	88.8	91.1	93.3	91.1	88.8	84.2	79.6	79.6	77.4	70.6
80°	66.1	63.7	63.7	63.7	61.5	63.7	59.2	59.2	54.6	52.4	47.8
82.5°	43.3	43.3	40.9	43.3	40.9	43.3	36.4	36.4	36.4	34.1	29.6
85°	29.6	25.0	25.0	27.4	22.8	27.4	25.0	22.8	20.5	20.5	18.2
87.5°	13.7	15.9	13.7	15.9	13.7	13.7	15.9	13.7	13.7	9.1	9.1
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°	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1
2.5°	4639.3	4641.6	4641.6	4650.7	4655.2	4657.5	4657.5	4675.8	4668.9	4673.5	4678.0
5°	4573.3	4586.9	4591.5	4591.5	4616.5	4625.6	4634.7	4655.2	4657.5	4671.2	4687.1
7.5°	4509.5	4525.5	4534.6	4555.1	4571.0	4586.9	4614.3	4628.0	4641.6	4659.8	4680.3
10°	4448.1	4466.3	4484.5	4500.4	4525.5	4546.0	4564.2	4596.0	4612.0	4637.1	4664.3
12.5°	4388.9	4414.0	4429.9	4457.2	4484.5	4502.7	4530.1	4559.7	4584.7	4609.7	4641.6
15°	4336.6	4366.2	4384.4	4414.0	4443.6	4468.6	4498.2	4534.6	4552.8	4582.4	4612.0
17.5°	4279.6	4311.6	4334.3	4361.6	4398.0	4425.3	4450.4	4486.8	4509.5	4541.4	4575.6
20°	4220.5	4252.3	4279.6	4307.0	4343.4	4370.7	4400.3	4436.7	4461.7	4493.6	4521.0
22.5°	4149.9	4179.5	4209.0	4240.9	4277.4	4300.1	4334.3	4366.2	4393.4	4423.1	4450.4
25°	4058.8	4095.3	4118.1	4147.6	4177.2	4202.2	4238.7	4270.5	4293.3	4320.6	4345.7
27.5°	3951.8	3979.2	3997.4	4022.4	4052.0	4074.8	4102.0	4134.0	4156.8	4181.8	4200.0
30°	3769.7	3794.8	3810.7	3828.9	3858.5	3879.0	3901.8	3931.3	3947.2	3965.5	3981.4
32.5°	3530.7	3551.2	3560.3	3574.0	3594.5	3614.9	3633.2	3658.2	3665.0	3676.4	3676.4
35°	3184.7	3189.2	3187.0	3191.6	3200.7	3212.0	3227.9	3243.9	3252.9	3252.9	3246.2
37.5°	2779.5	2752.2	2722.6	2699.8	2693.0	2688.4	2697.6	2704.3	2713.5	2718.0	2706.7
40°	2358.4	2296.9	2230.9	2171.7	2130.7	2112.5	2105.7	2110.2	2110.2	2126.1	2126.1
42.5°	1996.4	1900.8	1803.0	1714.1	1654.9	1609.5	1588.9	1588.9	1591.2	1602.6	1609.5
45°	1695.9	1575.3	1461.4	1363.6	1281.6	1222.4	1195.1	1188.3	1186.0	1190.5	1206.5
47.5°	1466.0	1340.8	1222.4	1101.8	1015.3	956.1	931.1	921.9	912.8	921.9	924.2
50°	1286.2	1156.4	1031.2	910.6	819.5	767.1	735.3	721.6	719.3	719.3	723.9
52.5°	1122.2	1001.6	876.5	753.5	657.9	607.8	578.2	571.4	562.3	571.4	571.4
55°	967.4	846.8	723.9	607.8	528.1	475.8	448.4	439.4	434.8	441.6	441.6
57.5°	799.1	696.6	582.8	478.1	398.4	362.0	341.4	330.1	327.8	332.3	327.8
60°	655.6	569.1	471.2	375.6	314.2	275.5	259.5	255.0	250.4	255.0	255.0
62.5°	519.0	446.2	366.5	293.7	241.3	214.0	195.7	195.7	193.5	193.5	195.7
65°	384.7	327.8	270.9	209.4	168.5	148.0	134.3	134.3	132.0	134.3	132.0
67.5°	280.0	241.3	195.7	152.5	120.7	109.3	100.2	93.3	97.9	93.3	91.1
70°	204.9	173.0	141.1	116.1	93.3	82.0	75.1	72.8	68.3	68.3	68.3
72.5°	136.6	116.1	95.6	75.1	61.5	50.0	47.8	43.3	38.7	40.9	45.5
75°	91.1	77.4	68.3	54.6	40.9	40.9	27.4	27.4	22.8	27.4	20.5
77.5°	63.7	52.4	40.9	34.1	27.4	25.0	18.2	18.2	15.9	15.9	15.9
80°	45.5	38.7	29.6	25.0	18.2	18.2	15.9	13.7	11.3	11.3	13.7
82.5°	27.4	20.5	20.5	18.2	11.3	9.1	6.8	9.1	4.6	4.6	4.6
85°	15.9	13.7	11.3	6.8	4.6	4.6	2.2	0.0	2.2	2.2	0.0
87.5°	9.1	4.6	4.6	2.2	0.0	2.2	2.2	0.0	0.0	0.0	4.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1
2.5°	4689.4	4687.1	4691.7	4691.7	4705.4	4703.0	4709.9	4709.9	4705.4	4707.6	4716.7
5°	4705.4	4712.2	4725.8	4737.2	4757.7	4766.8	4778.2	4789.6	4791.9	4798.7	4805.5
7.5°	4705.4	4728.1	4744.1	4764.5	4791.9	4807.8	4832.8	4853.3	4862.4	4873.7	4887.4
10°	4696.2	4719.0	4748.6	4771.3	4805.5	4830.5	4855.6	4887.4	4901.1	4919.3	4937.6
12.5°	4678.0	4703.0	4734.9	4764.5	4803.2	4826.0	4857.8	4887.4	4907.9	4933.0	4953.5
15°	4650.7	4680.3	4709.9	4739.5	4780.4	4807.8	4837.4	4871.5	4892.0	4919.3	4937.6
17.5°	4607.5	4639.3	4666.7	4693.9	4732.6	4764.5	4791.9	4823.7	4844.2	4867.0	4892.0
20°	4555.1	4584.7	4614.3	4637.1	4675.8	4703.0	4732.6	4762.2	4778.2	4782.8	4821.5
22.5°	4489.1	4509.5	4532.3	4568.8	4591.5	4616.5	4643.9	4671.2	4687.1	4712.2	4725.8
25°	4379.8	4400.3	4425.3	4441.2	4468.6	4489.1	4516.4	4546.0	4555.1	4573.3	4586.9
27.5°	4227.3	4238.7	4250.1	4263.7	4279.6	4291.0	4307.0	4320.6	4329.7	4338.8	4347.9
30°	3985.9	3985.9	3985.9	3976.9	3983.7	3990.5	3992.8	3990.5	3990.5	3988.3	3988.3
32.5°	3667.3	3649.1	3628.6	3610.4	3603.6	3594.5	3589.9	3583.0	3571.7	3564.9	3567.1
35°	3237.0	3196.1	3171.0	3148.3	3130.1	3116.4	3109.6	3102.7	3100.5	3091.4	3082.2
37.5°	2699.8	2670.2	2652.1	2638.4	2622.4	2608.8	2611.0	2613.4	2620.1	2615.6	2617.9
40°	2130.7	2123.9	2130.7	2114.8	2110.2	2114.8	2126.1	2142.1	2151.2	2160.3	2176.2
42.5°	1620.8	1632.1	1648.2	1648.2	1654.9	1664.1	1677.7	1702.8	1716.4	1732.3	1750.6
45°	1220.1	1233.8	1254.3	1261.1	1265.7	1277.0	1293.0	1313.5	1322.6	1336.2	1352.2
47.5°	940.2	949.3	960.6	972.0	983.4	988.0	1003.9	1003.9	1015.3	1024.4	1028.9
50°	733.0	742.1	751.2	758.0	762.6	769.5	774.0	780.8	783.0	787.6	789.9
52.5°	573.6	585.1	585.1	589.6	596.4	603.2	601.0	603.2	605.5	605.5	612.3
55°	448.4	448.4	455.3	455.3	459.9	457.5	459.9	459.9	459.9	459.9	462.1
57.5°	334.6	336.9	343.8	339.2	336.9	341.4	336.9	341.4	339.2	343.8	336.9
60°	257.2	257.2	259.5	259.5	261.8	261.8	261.8	259.5	259.5	257.2	257.2
62.5°	193.5	195.7	198.1	195.7	195.7	195.7	193.5	193.5	191.2	188.9	188.9
65°	129.8	127.5	132.0	127.5	129.8	129.8	127.5	129.8	122.9	125.2	122.9
67.5°	93.3	91.1	88.8	91.1	88.8	86.5	86.5	88.8	91.1	84.2	84.2
70°	61.5	63.7	61.5	63.7	66.1	66.1	63.7	61.5	63.7	59.2	61.5
72.5°	38.7	38.7	38.7	38.7	38.7	40.9	40.9	40.9	36.4	36.4	34.1
75°	18.2	25.0	20.5	18.2	25.0	25.0	22.8	22.8	20.5	20.5	20.5
77.5°	18.2	13.7	13.7	13.7	13.7	13.7	13.7	13.7	11.3	13.7	11.3
80°	9.1	9.1	9.1	6.8	9.1	9.1	11.3	9.1	9.1	6.8	11.3
82.5°	4.6	4.6	4.6	0.0	2.2	4.6	4.6	2.2	4.6	4.6	2.2
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: P248544

CATALOG NUMBER: LD8B80D010 ER8B80827 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1
2.5°	4714.5	4712.2	4714.5	4716.7	4714.5	4712.2	4714.5	4716.7	4707.6	4705.4	4709.9
5°	4814.6	4814.6	4819.1	4821.5	4819.1	4814.6	4814.6	4805.5	4798.7	4791.9	4789.6
7.5°	4901.1	4905.7	4910.2	4912.4	4910.2	4905.7	4901.1	4887.4	4873.7	4862.4	4853.3
10°	4953.5	4960.3	4969.4	4973.9	4969.4	4960.3	4953.5	4937.6	4919.3	4901.1	4887.4
12.5°	4976.2	4983.1	4994.4	4992.2	4994.4	4983.1	4976.2	4953.5	4933.0	4907.9	4887.4
15°	4960.3	4969.4	4980.7	4985.3	4980.7	4969.4	4960.3	4937.6	4919.3	4892.0	4871.5
17.5°	4910.2	4923.9	4930.7	4937.6	4930.7	4923.9	4910.2	4892.0	4867.0	4844.2	4823.7
20°	4841.9	4851.1	4860.2	4862.4	4860.2	4851.1	4841.9	4821.5	4782.8	4778.2	4762.2
22.5°	4744.1	4750.9	4771.3	4764.5	4771.3	4750.9	4744.1	4725.8	4712.2	4687.1	4671.2
25°	4602.9	4609.7	4612.0	4614.3	4612.0	4609.7	4602.9	4586.9	4573.3	4555.1	4546.0
27.5°	4359.3	4359.3	4363.8	4366.2	4363.8	4359.3	4359.3	4347.9	4338.8	4329.7	4320.6
30°	3990.5	3990.5	3990.5	4002.0	3990.5	3990.5	3990.5	3988.3	3988.3	3990.5	3990.5
32.5°	3564.9	3560.3	3555.8	3560.3	3555.8	3560.3	3564.9	3567.1	3564.9	3571.7	3583.0
35°	3082.2	3080.0	3086.8	3077.7	3086.8	3080.0	3082.2	3082.2	3091.4	3100.5	3102.7
37.5°	2620.1	2615.6	2624.7	2615.6	2624.7	2615.6	2620.1	2617.9	2615.6	2620.1	2613.4
40°	2180.8	2185.3	2185.3	2203.6	2185.3	2185.3	2180.8	2176.2	2160.3	2151.2	2142.1
42.5°	1759.7	1773.3	1768.8	1782.4	1768.8	1773.3	1759.7	1750.6	1732.3	1716.4	1702.8
45°	1361.3	1370.4	1370.4	1374.9	1370.4	1370.4	1361.3	1352.2	1336.2	1322.6	1313.5
47.5°	1044.8	1044.8	1044.8	1047.2	1044.8	1044.8	1044.8	1028.9	1024.4	1015.3	1003.9
50°	794.5	796.7	799.1	801.3	799.1	796.7	794.5	789.9	787.6	783.0	780.8
52.5°	610.1	612.3	607.8	612.3	607.8	612.3	610.1	612.3	605.5	605.5	603.2
55°	462.1	459.9	462.1	464.4	462.1	459.9	462.1	462.1	459.9	459.9	459.9
57.5°	339.2	334.6	334.6	334.6	334.6	334.6	339.2	336.9	343.8	339.2	341.4
60°	252.7	255.0	255.0	257.2	255.0	255.0	252.7	257.2	257.2	259.5	259.5
62.5°	186.6	193.5	188.9	193.5	188.9	193.5	186.6	188.9	188.9	191.2	193.5
65°	120.7	120.7	120.7	122.9	120.7	120.7	120.7	122.9	125.2	122.9	129.8
67.5°	82.0	84.2	88.8	86.5	88.8	84.2	82.0	84.2	84.2	91.1	88.8
70°	66.1	59.2	59.2	66.1	59.2	59.2	66.1	61.5	59.2	63.7	61.5
72.5°	38.7	34.1	38.7	38.7	38.7	34.1	38.7	34.1	36.4	36.4	40.9
75°	20.5	18.2	15.9	22.8	15.9	18.2	20.5	20.5	20.5	20.5	22.8
77.5°	13.7	11.3	15.9	15.9	15.9	11.3	13.7	11.3	13.7	11.3	13.7
80°	6.8	9.1	6.8	11.3	6.8	9.1	6.8	11.3	6.8	9.1	9.1
82.5°	2.2	4.6	4.6	4.6	4.6	4.6	2.2	2.2	4.6	4.6	2.2
85°	0.0	4.6	2.2	2.2	2.2	4.6	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	0.0	0.0	2.2	0.0	0.0	2.2	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: P248544

CATALOG NUMBER: LD8B80D010 ER8B80827 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1
2.5°	4709.9	4703.0	4705.4	4691.7	4691.7	4687.1	4689.4	4678.0	4673.5	4668.9	4675.8
5°	4778.2	4766.8	4757.7	4737.2	4725.8	4712.2	4705.4	4687.1	4671.2	4657.5	4655.2
7.5°	4832.8	4807.8	4791.9	4764.5	4744.1	4728.1	4705.4	4680.3	4659.8	4641.6	4628.0
10°	4855.6	4830.5	4805.5	4771.3	4748.6	4719.0	4696.2	4664.3	4637.1	4612.0	4596.0
12.5°	4857.8	4826.0	4803.2	4764.5	4734.9	4703.0	4678.0	4641.6	4609.7	4584.7	4559.7
15°	4837.4	4807.8	4780.4	4739.5	4709.9	4680.3	4650.7	4612.0	4582.4	4552.8	4534.6
17.5°	4791.9	4764.5	4732.6	4693.9	4666.7	4639.3	4607.5	4575.6	4541.4	4509.5	4486.8
20°	4732.6	4703.0	4675.8	4637.1	4614.3	4584.7	4555.1	4521.0	4493.6	4461.7	4436.7
22.5°	4643.9	4616.5	4591.5	4568.8	4532.3	4509.5	4489.1	4450.4	4423.1	4393.4	4366.2
25°	4516.4	4489.1	4468.6	4441.2	4425.3	4400.3	4379.8	4345.7	4320.6	4293.3	4270.5
27.5°	4307.0	4291.0	4279.6	4263.7	4250.1	4238.7	4227.3	4200.0	4181.8	4156.8	4134.0
30°	3992.8	3990.5	3983.7	3976.9	3985.9	3985.9	3985.9	3981.4	3965.5	3947.2	3931.3
32.5°	3589.9	3594.5	3603.6	3610.4	3628.6	3649.1	3667.3	3676.4	3676.4	3665.0	3658.2
35°	3109.6	3116.4	3130.1	3148.3	3171.0	3196.1	3237.0	3246.2	3252.9	3252.9	3243.9
37.5°	2611.0	2608.8	2622.4	2638.4	2652.1	2670.2	2699.8	2706.7	2718.0	2713.5	2704.3
40°	2126.1	2114.8	2110.2	2114.8	2130.7	2123.9	2130.7	2126.1	2126.1	2110.2	2110.2
42.5°	1677.7	1664.1	1654.9	1648.2	1648.2	1632.1	1620.8	1609.5	1602.6	1591.2	1588.9
45°	1293.0	1277.0	1265.7	1261.1	1254.3	1233.8	1220.1	1206.5	1190.5	1186.0	1188.3
47.5°	1003.9	988.0	983.4	972.0	960.6	949.3	940.2	924.2	921.9	912.8	921.9
50°	774.0	769.5	762.6	758.0	751.2	742.1	733.0	723.9	719.3	719.3	721.6
52.5°	601.0	603.2	596.4	589.6	585.1	585.1	573.6	571.4	571.4	562.3	571.4
55°	459.9	457.5	459.9	455.3	455.3	448.4	448.4	441.6	441.6	434.8	439.4
57.5°	336.9	341.4	336.9	339.2	343.8	336.9	334.6	327.8	332.3	327.8	330.1
60°	261.8	261.8	261.8	259.5	259.5	257.2	257.2	255.0	255.0	250.4	255.0
62.5°	193.5	195.7	195.7	195.7	198.1	195.7	193.5	195.7	193.5	193.5	195.7
65°	127.5	129.8	129.8	127.5	132.0	127.5	129.8	132.0	134.3	132.0	134.3
67.5°	86.5	86.5	88.8	91.1	88.8	91.1	93.3	91.1	93.3	97.9	93.3
70°	63.7	66.1	66.1	63.7	61.5	63.7	61.5	68.3	68.3	68.3	72.8
72.5°	40.9	40.9	38.7	38.7	38.7	38.7	38.7	45.5	40.9	38.7	43.3
75°	22.8	25.0	25.0	18.2	20.5	25.0	18.2	20.5	27.4	22.8	27.4
77.5°	13.7	13.7	13.7	13.7	13.7	13.7	18.2	15.9	15.9	15.9	18.2
80°	11.3	9.1	9.1	6.8	9.1	9.1	9.1	13.7	11.3	11.3	13.7
82.5°	4.6	4.6	2.2	0.0	4.6	4.6	4.6	4.6	4.6	4.6	9.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	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: P248544

CATALOG NUMBER: LD8B80D010 ER8B80827 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1
2.5°	4657.5	4657.5	4655.2	4650.7	4641.6	4641.6	4639.3	4632.5	4628.0	4625.6	4625.6
5°	4634.7	4625.6	4616.5	4591.5	4591.5	4586.9	4573.3	4564.2	4559.7	4548.2	4543.7
7.5°	4614.3	4586.9	4571.0	4555.1	4534.6	4525.5	4509.5	4502.7	4486.8	4475.4	4468.6
10°	4564.2	4546.0	4525.5	4500.4	4484.5	4466.3	4448.1	4434.5	4414.0	4402.5	4393.4
12.5°	4530.1	4502.7	4484.5	4457.2	4429.9	4414.0	4388.9	4373.0	4352.5	4329.7	4316.0
15°	4498.2	4468.6	4443.6	4414.0	4384.4	4366.2	4336.6	4318.4	4288.8	4266.0	4250.1
17.5°	4450.4	4425.3	4398.0	4361.6	4334.3	4311.6	4279.6	4256.9	4229.6	4200.0	4184.0
20°	4400.3	4370.7	4343.4	4307.0	4279.6	4252.3	4220.5	4195.5	4163.5	4136.2	4118.1
22.5°	4334.3	4300.1	4277.4	4240.9	4209.0	4179.5	4149.9	4120.3	4090.7	4067.9	4047.4
25°	4238.7	4202.2	4177.2	4147.6	4118.1	4095.3	4058.8	4040.7	4011.1	3990.5	3970.0
27.5°	4102.0	4074.8	4052.0	4022.4	3997.4	3979.2	3951.8	3933.7	3908.6	3890.4	3874.4
30°	3901.8	3879.0	3858.5	3828.9	3810.7	3794.8	3769.7	3753.8	3735.6	3715.1	3710.6
32.5°	3633.2	3614.9	3594.5	3574.0	3560.3	3551.2	3530.7	3521.6	3503.4	3492.0	3480.6
35°	3227.9	3212.0	3200.7	3191.6	3187.0	3189.2	3184.7	3193.8	3198.3	3196.1	3198.3
37.5°	2697.6	2688.4	2693.0	2699.8	2722.6	2752.2	2779.5	2820.4	2847.8	2875.1	2900.2
40°	2105.7	2112.5	2130.7	2171.7	2230.9	2296.9	2358.4	2435.8	2513.2	2567.8	2617.9
42.5°	1588.9	1609.5	1654.9	1714.1	1803.0	1900.8	1996.4	2110.2	2203.6	2294.6	2358.4
45°	1195.1	1222.4	1281.6	1363.6	1461.4	1575.3	1695.9	1823.4	1935.0	2028.3	2098.9
47.5°	931.1	956.1	1015.3	1101.8	1222.4	1340.8	1466.0	1598.0	1714.1	1805.2	1866.7
50°	735.3	767.1	819.5	910.6	1031.2	1156.4	1286.2	1415.9	1525.2	1602.6	1657.3
52.5°	578.2	607.8	657.9	753.5	876.5	1001.6	1122.2	1249.8	1345.3	1420.5	1456.9
55°	448.4	475.8	528.1	607.8	723.9	846.8	967.4	1076.8	1165.5	1220.1	1254.3
57.5°	341.4	362.0	398.4	478.1	582.8	696.6	799.1	908.3	976.6	1015.3	1038.0
60°	259.5	275.5	314.2	375.6	471.2	569.1	655.6	737.6	792.2	824.1	846.8
62.5°	195.7	214.0	241.3	293.7	366.5	446.2	519.0	580.5	626.0	646.5	662.5
65°	134.3	148.0	168.5	209.4	270.9	327.8	384.7	430.3	459.9	482.6	491.7
67.5°	100.2	109.3	120.7	152.5	195.7	241.3	280.0	311.8	343.8	352.9	368.8
70°	75.1	82.0	93.3	116.1	141.1	173.0	204.9	223.1	245.9	261.8	266.4
72.5°	47.8	50.0	61.5	75.1	95.6	116.1	136.6	152.5	166.2	175.3	179.8
75°	27.4	40.9	40.9	54.6	68.3	77.4	91.1	102.4	109.3	116.1	116.1
77.5°	18.2	25.0	27.4	34.1	40.9	52.4	63.7	70.6	77.4	79.6	79.6
80°	15.9	18.2	18.2	25.0	29.6	38.7	45.5	47.8	52.4	54.6	59.2
82.5°	6.8	9.1	11.3	18.2	20.5	20.5	27.4	29.6	34.1	36.4	36.4
85°	2.2	4.6	4.6	6.8	11.3	13.7	15.9	18.2	20.5	20.5	22.8
87.5°	2.2	2.2	0.0	2.2	4.6	4.6	9.1	9.1	9.1	13.7	13.7
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: P248544

CATALOG NUMBER: LD8B80D010 ER8B80827 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1
2.5°	4621.1	4623.4	4614.3	4612.0	4607.5	4609.7	4614.3
5°	4536.9	4539.1	4530.1	4521.0	4521.0	4518.6	4521.0
7.5°	4457.2	4459.5	4445.8	4441.2	4432.1	4434.5	4434.5
10°	4377.5	4377.5	4357.1	4354.7	4347.9	4345.7	4345.7
12.5°	4300.1	4293.3	4277.4	4268.3	4272.9	4259.2	4259.2
15°	4231.8	4220.5	4200.0	4193.1	4181.8	4177.2	4177.2
17.5°	4161.3	4152.2	4134.0	4120.3	4106.6	4104.4	4106.6
20°	4093.0	4083.9	4061.1	4052.0	4040.7	4040.7	4036.1
22.5°	4024.6	4015.6	3995.1	3988.3	3972.4	3972.4	3974.6
25°	3954.1	3947.2	3924.5	3920.0	3917.7	3908.6	3913.1
27.5°	3858.5	3853.9	3835.7	3828.9	3819.8	3817.6	3822.1
30°	3683.2	3676.4	3662.8	3655.9	3640.0	3642.3	3646.8
32.5°	3464.7	3455.6	3437.3	3430.5	3416.9	3412.3	3414.6
35°	3191.6	3184.7	3168.8	3168.8	3155.1	3150.5	3155.1
37.5°	2913.8	2920.6	2913.8	2920.6	2913.8	2911.5	2913.8
40°	2652.1	2677.1	2681.6	2706.7	2697.6	2711.2	2708.9
42.5°	2401.6	2442.5	2458.6	2479.0	2474.5	2483.6	2490.4
45°	2148.9	2183.1	2199.0	2212.7	2214.9	2219.5	2221.8
47.5°	1909.9	1937.2	1939.5	1955.4	1953.2	1953.2	1960.0
50°	1686.9	1705.0	1709.5	1721.0	1711.9	1707.3	1709.5
52.5°	1479.7	1497.9	1493.3	1497.9	1486.5	1481.9	1484.2
55°	1267.9	1277.0	1277.0	1277.0	1263.4	1263.4	1263.4
57.5°	1051.7	1054.0	1049.4	1051.7	1049.4	1035.7	1033.5
60°	853.7	853.7	851.3	853.7	846.8	840.0	840.0
62.5°	666.9	671.5	680.6	671.5	666.9	671.5	664.7
65°	498.6	507.7	505.3	509.9	507.7	507.7	503.1
67.5°	375.6	377.9	380.1	382.5	382.5	382.5	382.5
70°	275.5	282.3	280.0	280.0	280.0	280.0	293.7
72.5°	184.4	193.5	191.2	195.7	195.7	200.3	195.7
75°	125.2	134.3	129.8	136.6	134.3	129.8	141.1
77.5°	84.2	88.8	91.1	93.3	91.1	88.8	91.1
80°	59.2	63.7	61.5	63.7	63.7	63.7	66.1
82.5°	36.4	43.3	40.9	43.3	40.9	43.3	43.3
85°	25.0	27.4	22.8	27.4	25.0	25.0	29.6
87.5°	15.9	13.7	13.7	15.9	13.7	15.9	13.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)