

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: P248976

Luminaire Tested: **LD8B80D010 ER8B80827 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248976
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 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7770.0 lumens
Efficiency: N/A
Efficacy: 104.4 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

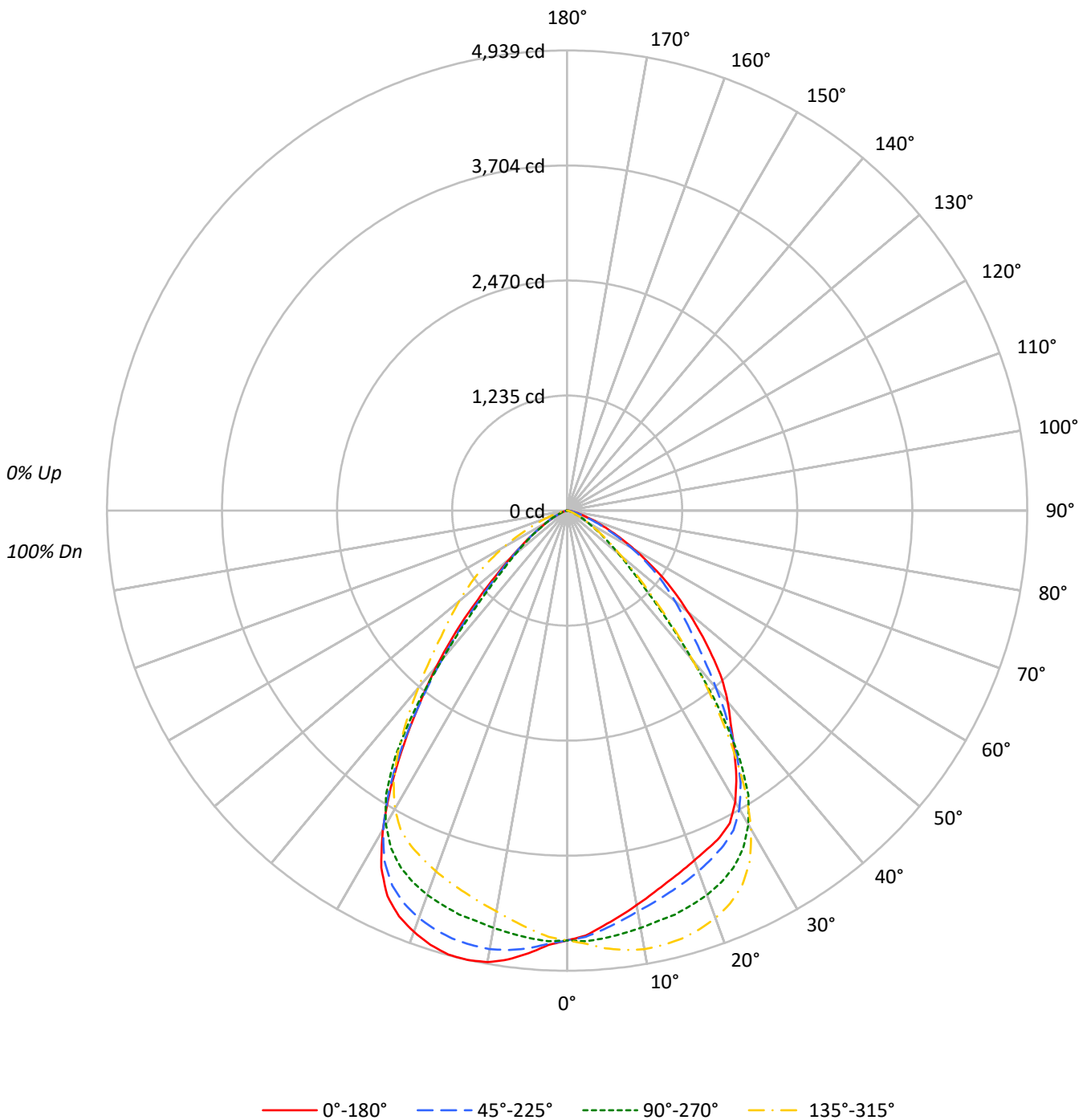
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	142242	142242	142242	142242
5°	138464	142575	147667	142575
10°	134632	142388	154096	142388
15°	131942	143234	157469	143234
20°	131045	144053	157875	144053
25°	131735	143765	155337	143765
30°	128476	138503	140992	138503
35°	117518	120823	114634	120823
40°	107893	84046	87766	84046
45°	95866	51271	59326	51271
50°	81146	34248	38033	34248
55°	67207	23370	24703	23370
60°	51256	15560	15696	15560
65°	36322	9697	8873	9697
70°	26191	6491	5896	6491
75°	16632	3229	2681	3229
80°	11614	2397	1989	2397
85°	10367	0	778	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.1	5.7
10°-20°	1271.4	16.4
20°-30°	1925.2	24.8
30°-40°	1929.5	24.8
40°-50°	1211.6	15.6
50°-60°	645.7	8.3
60°-70°	265.5	3.4
70°-80°	70.1	0.9
80°-90°	11.9	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°	3635.7	46.8
0°-40°	5565.2	71.6
0°-60°	7422.5	95.5
0°-90°	7770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7770.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4613	4613	4613	4613	4613	
5°	4473	4606	4770	4606	4473	422
15°	4133	4487	4933	4487	4133	1169
25°	3872	4225	4566	4225	3872	1776
35°	3122	3210	3045	3210	3122	1956
45°	2198	1176	1360	1176	2198	1691
55°	1250	435	460	435	1250	1115
65°	498	133	122	133	498	516
75°	140	27	22	27	140	158
85°	29	0	2	0	29	32
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°	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8
2.5°	4565.5	4561.0	4558.8	4563.3	4565.5	4574.5	4572.3	4576.7	4576.7	4579.1	4583.5
5°	4473.2	4470.9	4473.2	4473.2	4482.2	4491.2	4488.9	4495.7	4500.2	4511.5	4515.9
7.5°	4387.6	4387.6	4385.3	4394.3	4398.8	4412.4	4410.0	4421.4	4428.1	4439.3	4455.1
10°	4299.7	4299.7	4302.0	4308.7	4311.0	4331.2	4331.2	4347.0	4356.0	4367.3	4387.6
12.5°	4214.2	4214.2	4227.7	4223.1	4232.1	4247.9	4254.7	4270.4	4284.0	4306.5	4326.8
15°	4133.0	4133.0	4137.6	4148.8	4155.6	4175.9	4187.1	4205.2	4220.9	4243.5	4272.7
17.5°	4063.2	4061.0	4063.2	4076.8	4090.3	4108.3	4117.3	4139.8	4155.6	4184.9	4211.9
20°	3993.4	3998.0	3998.0	4009.2	4018.2	4040.7	4049.7	4074.5	4092.5	4119.5	4151.1
22.5°	3932.6	3930.4	3930.4	3946.1	3952.9	3973.1	3982.1	4004.6	4024.9	4047.5	4076.8
25°	3871.8	3867.2	3876.3	3878.6	3883.0	3905.5	3912.3	3928.1	3948.4	3968.7	3998.0
27.5°	3781.7	3777.2	3779.4	3788.4	3795.2	3813.2	3817.7	3833.5	3849.3	3867.2	3892.1
30°	3608.2	3603.8	3601.5	3617.3	3624.1	3637.5	3644.3	3671.3	3675.8	3696.1	3714.1
32.5°	3378.5	3376.3	3380.8	3394.2	3401.0	3419.1	3428.1	3443.8	3455.1	3466.4	3484.4
35°	3121.8	3117.2	3121.8	3135.3	3135.3	3151.1	3157.8	3164.5	3162.3	3164.5	3160.1
37.5°	2883.0	2880.7	2883.0	2889.7	2883.0	2889.7	2883.0	2869.5	2844.8	2817.7	2790.6
40°	2680.3	2682.5	2669.1	2678.1	2653.2	2648.8	2624.0	2590.2	2540.7	2486.6	2410.0
42.5°	2464.1	2457.3	2448.3	2452.8	2432.6	2416.7	2376.2	2333.5	2270.3	2180.3	2087.9
45°	2198.3	2196.1	2191.5	2189.3	2175.8	2160.0	2126.2	2076.7	2006.9	1914.5	1804.1
47.5°	1939.3	1932.5	1932.5	1934.7	1919.0	1916.7	1889.7	1846.9	1786.1	1696.0	1581.1
50°	1691.5	1689.2	1693.8	1702.8	1691.5	1687.0	1669.0	1639.7	1585.7	1509.1	1400.9
52.5°	1468.5	1466.3	1470.8	1482.0	1477.5	1482.0	1464.1	1441.5	1405.5	1331.1	1236.5
55°	1250.1	1250.1	1250.1	1263.5	1263.5	1263.5	1254.5	1241.1	1207.2	1153.2	1065.4
57.5°	1022.6	1024.8	1038.3	1040.6	1038.3	1042.9	1040.6	1027.0	1004.6	966.3	898.7
60°	831.1	831.1	837.9	844.7	842.3	844.7	844.7	837.9	815.4	783.9	729.8
62.5°	657.7	664.4	659.9	664.4	673.4	664.4	659.9	655.4	639.7	619.4	574.3
65°	497.8	502.3	502.3	504.5	500.0	502.3	493.3	486.5	477.5	455.0	425.7
67.5°	378.4	378.4	378.4	378.4	376.1	373.9	371.7	364.9	349.1	340.1	308.5
70°	290.5	277.0	277.0	277.0	277.0	279.3	272.6	263.6	259.0	243.3	220.7
72.5°	193.7	198.2	193.7	193.7	189.2	191.4	182.5	177.9	173.5	164.5	150.9
75°	139.6	128.4	132.9	135.2	128.4	132.9	123.9	114.9	114.9	108.1	101.3
77.5°	90.1	87.9	90.1	92.3	90.1	87.9	83.3	78.8	78.8	76.6	69.8
80°	65.4	63.0	63.0	63.0	60.8	63.0	58.6	58.6	54.0	51.8	47.3
82.5°	42.8	42.8	40.5	42.8	40.5	42.8	36.1	36.1	36.1	33.7	29.3
85°	29.3	24.8	24.8	27.1	22.5	27.1	24.8	22.5	20.3	20.3	18.0
87.5°	13.5	15.8	13.5	15.8	13.5	13.5	15.8	13.5	13.5	9.0	9.0
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°	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8
2.5°	4590.3	4592.5	4592.5	4601.6	4606.0	4608.3	4608.3	4626.3	4619.6	4624.1	4628.6
5°	4525.0	4538.5	4543.0	4543.0	4567.7	4576.7	4585.7	4606.0	4608.3	4621.8	4637.6
7.5°	4461.9	4477.6	4486.7	4506.9	4522.7	4538.5	4565.5	4579.1	4592.5	4610.6	4630.8
10°	4401.1	4419.1	4437.1	4452.9	4477.6	4497.9	4515.9	4547.4	4563.3	4588.0	4615.0
12.5°	4342.6	4367.3	4383.1	4410.0	4437.1	4455.1	4482.2	4511.5	4536.2	4561.0	4592.5
15°	4290.7	4320.0	4338.0	4367.3	4396.6	4421.4	4450.7	4486.7	4504.7	4534.0	4563.3
17.5°	4234.4	4266.0	4288.5	4315.5	4351.6	4378.5	4403.4	4439.3	4461.9	4493.4	4527.2
20°	4175.9	4207.4	4234.4	4261.4	4297.5	4324.5	4353.8	4389.8	4414.6	4446.1	4473.2
22.5°	4106.1	4135.4	4164.6	4196.1	4232.1	4254.7	4288.5	4320.0	4347.0	4376.3	4403.4
25°	4015.9	4052.0	4074.5	4103.7	4133.0	4157.8	4193.9	4225.4	4247.9	4275.0	4299.7
27.5°	3910.1	3937.1	3955.1	3979.9	4009.2	4031.7	4058.7	4090.3	4112.8	4137.6	4155.6
30°	3729.8	3754.7	3770.5	3788.4	3817.7	3838.0	3860.6	3889.8	3905.5	3923.6	3939.4
32.5°	3493.3	3513.7	3522.6	3536.2	3556.5	3576.7	3594.8	3619.5	3626.3	3637.5	3637.5
35°	3151.1	3155.5	3153.3	3157.8	3166.8	3178.0	3193.8	3209.6	3218.6	3218.6	3211.9
37.5°	2750.1	2723.1	2693.8	2671.3	2664.5	2660.0	2669.1	2675.8	2684.8	2689.3	2678.1
40°	2333.5	2272.7	2207.3	2148.7	2108.2	2090.2	2083.4	2087.9	2087.9	2103.6	2103.6
42.5°	1975.3	1880.7	1783.9	1696.0	1637.4	1592.5	1572.2	1572.2	1574.4	1585.7	1592.5
45°	1678.0	1558.6	1446.0	1349.2	1268.1	1209.5	1182.5	1175.7	1173.5	1178.0	1193.7
47.5°	1450.5	1326.7	1209.5	1090.2	1004.6	946.0	921.2	912.2	903.2	912.2	914.5
50°	1272.6	1144.2	1020.3	900.9	810.8	759.0	727.5	713.9	711.7	711.7	716.3
52.5°	1110.4	991.1	867.2	745.6	650.9	601.4	572.1	565.3	556.3	565.3	565.3
55°	957.2	837.9	716.3	601.4	522.5	470.8	443.7	434.7	430.2	436.9	436.9
57.5°	790.6	689.2	576.6	473.0	394.2	358.1	337.8	326.6	324.3	328.8	324.3
60°	648.7	563.1	466.2	371.7	310.9	272.6	256.8	252.3	247.7	252.3	252.3
62.5°	513.5	441.5	362.6	290.5	238.7	211.7	193.7	193.7	191.4	191.4	193.7
65°	380.7	324.3	268.0	207.2	166.7	146.4	132.9	132.9	130.6	132.9	130.6
67.5°	277.0	238.7	193.7	150.9	119.4	108.1	99.1	92.3	96.9	92.3	90.1
70°	202.8	171.1	139.6	114.9	92.3	81.1	74.4	72.0	67.6	67.6	67.6
72.5°	135.2	114.9	94.6	74.4	60.8	49.5	47.3	42.8	38.3	40.5	45.1
75°	90.1	76.6	67.6	54.0	40.5	40.5	27.1	27.1	22.5	27.1	20.3
77.5°	63.0	51.8	40.5	33.7	27.1	24.8	18.0	18.0	15.8	15.8	15.8
80°	45.1	38.3	29.3	24.8	18.0	18.0	15.8	13.5	11.2	11.2	13.5
82.5°	27.1	20.3	20.3	18.0	11.2	9.0	6.8	9.0	4.5	4.5	4.5
85°	15.8	13.5	11.2	6.8	4.5	4.5	2.2	0.0	2.2	2.2	0.0
87.5°	9.0	4.5	4.5	2.2	0.0	2.2	2.2	0.0	0.0	0.0	4.5
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°	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8
2.5°	4639.9	4637.6	4642.1	4642.1	4655.6	4653.3	4660.1	4660.1	4655.6	4657.9	4666.9
5°	4655.6	4662.4	4675.8	4687.2	4707.4	4716.5	4727.7	4739.0	4741.2	4748.0	4754.7
7.5°	4655.6	4678.2	4693.9	4714.1	4741.2	4757.0	4781.7	4802.0	4811.0	4822.2	4835.8
10°	4646.5	4669.1	4698.4	4720.9	4754.7	4779.5	4804.2	4835.8	4849.3	4867.3	4885.4
12.5°	4628.6	4653.3	4684.8	4714.1	4752.4	4775.0	4806.5	4835.8	4856.1	4880.8	4901.1
15°	4601.6	4630.8	4660.1	4689.4	4729.9	4757.0	4786.3	4820.0	4840.3	4867.3	4885.4
17.5°	4558.8	4590.3	4617.3	4644.3	4682.6	4714.1	4741.2	4772.7	4793.0	4815.6	4840.3
20°	4506.9	4536.2	4565.5	4588.0	4626.3	4653.3	4682.6	4711.9	4727.7	4732.2	4770.5
22.5°	4441.7	4461.9	4484.4	4520.5	4543.0	4567.7	4594.8	4621.8	4637.6	4662.4	4675.8
25°	4333.5	4353.8	4378.5	4394.3	4421.4	4441.7	4468.6	4497.9	4506.9	4525.0	4538.5
27.5°	4182.6	4193.9	4205.2	4218.6	4234.4	4245.7	4261.4	4275.0	4284.0	4293.0	4302.0
30°	3943.8	3943.8	3943.8	3934.8	3941.6	3948.4	3950.6	3948.4	3948.4	3946.1	3946.1
32.5°	3628.5	3610.5	3590.2	3572.2	3565.5	3556.5	3551.9	3545.2	3534.0	3527.2	3529.4
35°	3202.8	3162.3	3137.5	3115.0	3097.0	3083.5	3076.7	3069.9	3067.7	3058.7	3049.6
37.5°	2671.3	2642.0	2624.0	2610.5	2594.7	2581.2	2583.4	2585.7	2592.4	2588.0	2590.2
40°	2108.2	2101.4	2108.2	2092.4	2087.9	2092.4	2103.6	2119.5	2128.5	2137.5	2153.2
42.5°	1603.7	1614.9	1630.7	1630.7	1637.4	1646.5	1659.9	1684.8	1698.2	1714.0	1732.1
45°	1207.2	1220.8	1241.1	1247.8	1252.3	1263.5	1279.4	1299.6	1308.6	1322.1	1337.9
47.5°	930.2	939.2	950.4	961.8	973.0	977.5	993.3	993.3	1004.6	1013.6	1018.0
50°	725.3	734.3	743.2	750.0	754.6	761.3	765.8	772.5	774.8	779.3	781.5
52.5°	567.6	578.9	578.9	583.3	590.1	596.9	594.6	596.9	599.1	599.1	605.8
55°	443.7	443.7	450.5	450.5	455.0	452.7	455.0	455.0	455.0	455.0	457.2
57.5°	331.1	333.4	340.1	335.6	333.4	337.8	333.4	337.8	335.6	340.1	333.4
60°	254.5	254.5	256.8	256.8	259.0	259.0	259.0	256.8	256.8	254.5	254.5
62.5°	191.4	193.7	196.0	193.7	193.7	193.7	191.4	191.4	189.2	186.9	186.9
65°	128.4	126.2	130.6	126.2	128.4	128.4	126.2	128.4	121.6	123.9	121.6
67.5°	92.3	90.1	87.9	90.1	87.9	85.6	85.6	87.9	90.1	83.3	83.3
70°	60.8	63.0	60.8	63.0	65.4	65.4	63.0	60.8	63.0	58.6	60.8
72.5°	38.3	38.3	38.3	38.3	38.3	40.5	40.5	40.5	36.1	36.1	33.7
75°	18.0	24.8	20.3	18.0	24.8	24.8	22.5	22.5	20.3	20.3	20.3
77.5°	18.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	11.2	13.5	11.2
80°	9.0	9.0	9.0	6.8	9.0	9.0	11.2	9.0	9.0	6.8	11.2
82.5°	4.5	4.5	4.5	0.0	2.2	4.5	4.5	2.2	4.5	4.5	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: P248976

CATALOG NUMBER: LD8B80D010 ER8B80827 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8
2.5°	4664.6	4662.4	4664.6	4666.9	4664.6	4662.4	4664.6	4666.9	4657.9	4655.6	4660.1
5°	4763.7	4763.7	4768.2	4770.5	4768.2	4763.7	4763.7	4754.7	4748.0	4741.2	4739.0
7.5°	4849.3	4853.8	4858.3	4860.5	4858.3	4853.8	4849.3	4835.8	4822.2	4811.0	4802.0
10°	4901.1	4907.9	4916.9	4921.3	4916.9	4907.9	4901.1	4885.4	4867.3	4849.3	4835.8
12.5°	4923.7	4930.4	4941.6	4939.4	4941.6	4930.4	4923.7	4901.1	4880.8	4856.1	4835.8
15°	4907.9	4916.9	4928.1	4932.6	4928.1	4916.9	4907.9	4885.4	4867.3	4840.3	4820.0
17.5°	4858.3	4871.8	4878.6	4885.4	4878.6	4871.8	4858.3	4840.3	4815.6	4793.0	4772.7
20°	4790.7	4799.8	4808.8	4811.0	4808.8	4799.8	4790.7	4770.5	4732.2	4727.7	4711.9
22.5°	4693.9	4700.7	4720.9	4714.1	4720.9	4700.7	4693.9	4675.8	4662.4	4637.6	4621.8
25°	4554.2	4561.0	4563.3	4565.5	4563.3	4561.0	4554.2	4538.5	4525.0	4506.9	4497.9
27.5°	4313.3	4313.3	4317.7	4320.0	4317.7	4313.3	4313.3	4302.0	4293.0	4284.0	4275.0
30°	3948.4	3948.4	3948.4	3959.7	3948.4	3948.4	3948.4	3946.1	3946.1	3948.4	3948.4
32.5°	3527.2	3522.6	3518.2	3522.6	3518.2	3522.6	3527.2	3529.4	3527.2	3534.0	3545.2
35°	3049.6	3047.4	3054.2	3045.2	3054.2	3047.4	3049.6	3049.6	3058.7	3067.7	3069.9
37.5°	2592.4	2588.0	2596.9	2588.0	2596.9	2588.0	2592.4	2590.2	2588.0	2592.4	2585.7
40°	2157.8	2162.2	2162.2	2180.3	2162.2	2162.2	2157.8	2153.2	2137.5	2128.5	2119.5
42.5°	1741.1	1754.6	1750.1	1763.6	1750.1	1754.6	1741.1	1732.1	1714.0	1698.2	1684.8
45°	1346.9	1356.0	1356.0	1360.4	1356.0	1356.0	1346.9	1337.9	1322.1	1308.6	1299.6
47.5°	1033.8	1033.8	1033.8	1036.1	1033.8	1033.8	1033.8	1018.0	1013.6	1004.6	993.3
50°	786.1	788.3	790.6	792.8	790.6	788.3	786.1	781.5	779.3	774.8	772.5
52.5°	603.6	605.8	601.4	605.8	601.4	605.8	603.6	605.8	599.1	599.1	596.9
55°	457.2	455.0	457.2	459.5	457.2	455.0	457.2	457.2	455.0	455.0	455.0
57.5°	335.6	331.1	331.1	331.1	331.1	331.1	335.6	333.4	340.1	335.6	337.8
60°	250.0	252.3	252.3	254.5	252.3	252.3	250.0	254.5	254.5	256.8	256.8
62.5°	184.7	191.4	186.9	191.4	186.9	191.4	184.7	186.9	186.9	189.2	191.4
65°	119.4	119.4	119.4	121.6	119.4	119.4	119.4	121.6	123.9	121.6	128.4
67.5°	81.1	83.3	87.9	85.6	87.9	83.3	81.1	83.3	83.3	90.1	87.9
70°	65.4	58.6	58.6	65.4	58.6	58.6	65.4	60.8	58.6	63.0	60.8
72.5°	38.3	33.7	38.3	38.3	38.3	33.7	38.3	33.7	36.1	36.1	40.5
75°	20.3	18.0	15.8	22.5	15.8	18.0	20.3	20.3	20.3	20.3	22.5
77.5°	13.5	11.2	15.8	15.8	15.8	11.2	13.5	11.2	13.5	11.2	13.5
80°	6.8	9.0	6.8	11.2	6.8	9.0	6.8	11.2	6.8	9.0	9.0
82.5°	2.2	4.5	4.5	4.5	4.5	4.5	2.2	2.2	4.5	4.5	2.2
85°	0.0	4.5	2.2	2.2	2.2	4.5	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: P248976

CATALOG NUMBER: LD8B80D010 ER8B80827 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8
2.5°	4660.1	4653.3	4655.6	4642.1	4642.1	4637.6	4639.9	4628.6	4624.1	4619.6	4626.3
5°	4727.7	4716.5	4707.4	4687.2	4675.8	4662.4	4655.6	4637.6	4621.8	4608.3	4606.0
7.5°	4781.7	4757.0	4741.2	4714.1	4693.9	4678.2	4655.6	4630.8	4610.6	4592.5	4579.1
10°	4804.2	4779.5	4754.7	4720.9	4698.4	4669.1	4646.5	4615.0	4588.0	4563.3	4547.4
12.5°	4806.5	4775.0	4752.4	4714.1	4684.8	4653.3	4628.6	4592.5	4561.0	4536.2	4511.5
15°	4786.3	4757.0	4729.9	4689.4	4660.1	4630.8	4601.6	4563.3	4534.0	4504.7	4486.7
17.5°	4741.2	4714.1	4682.6	4644.3	4617.3	4590.3	4558.8	4527.2	4493.4	4461.9	4439.3
20°	4682.6	4653.3	4626.3	4588.0	4565.5	4536.2	4506.9	4473.2	4446.1	4414.6	4389.8
22.5°	4594.8	4567.7	4543.0	4520.5	4484.4	4461.9	4441.7	4403.4	4376.3	4347.0	4320.0
25°	4468.6	4441.7	4421.4	4394.3	4378.5	4353.8	4333.5	4299.7	4275.0	4247.9	4225.4
27.5°	4261.4	4245.7	4234.4	4218.6	4205.2	4193.9	4182.6	4155.6	4137.6	4112.8	4090.3
30°	3950.6	3948.4	3941.6	3934.8	3943.8	3943.8	3943.8	3939.4	3923.6	3905.5	3889.8
32.5°	3551.9	3556.5	3565.5	3572.2	3590.2	3610.5	3628.5	3637.5	3637.5	3626.3	3619.5
35°	3076.7	3083.5	3097.0	3115.0	3137.5	3162.3	3202.8	3211.9	3218.6	3218.6	3209.6
37.5°	2583.4	2581.2	2594.7	2610.5	2624.0	2642.0	2671.3	2678.1	2689.3	2684.8	2675.8
40°	2103.6	2092.4	2087.9	2092.4	2108.2	2101.4	2108.2	2103.6	2103.6	2087.9	2087.9
42.5°	1659.9	1646.5	1637.4	1630.7	1630.7	1614.9	1603.7	1592.5	1585.7	1574.4	1572.2
45°	1279.4	1263.5	1252.3	1247.8	1241.1	1220.8	1207.2	1193.7	1178.0	1173.5	1175.7
47.5°	993.3	977.5	973.0	961.8	950.4	939.2	930.2	914.5	912.2	903.2	912.2
50°	765.8	761.3	754.6	750.0	743.2	734.3	725.3	716.3	711.7	711.7	713.9
52.5°	594.6	596.9	590.1	583.3	578.9	578.9	567.6	565.3	565.3	556.3	565.3
55°	455.0	452.7	455.0	450.5	450.5	443.7	443.7	436.9	436.9	430.2	434.7
57.5°	333.4	337.8	333.4	335.6	340.1	333.4	331.1	324.3	328.8	324.3	326.6
60°	259.0	259.0	259.0	256.8	256.8	254.5	254.5	252.3	252.3	247.7	252.3
62.5°	191.4	193.7	193.7	193.7	196.0	193.7	191.4	193.7	191.4	191.4	193.7
65°	126.2	128.4	128.4	126.2	130.6	126.2	128.4	130.6	132.9	130.6	132.9
67.5°	85.6	85.6	87.9	90.1	87.9	90.1	92.3	90.1	92.3	96.9	92.3
70°	63.0	65.4	65.4	63.0	60.8	63.0	60.8	67.6	67.6	67.6	72.0
72.5°	40.5	40.5	38.3	38.3	38.3	38.3	38.3	45.1	40.5	38.3	42.8
75°	22.5	24.8	24.8	18.0	20.3	24.8	18.0	20.3	27.1	22.5	27.1
77.5°	13.5	13.5	13.5	13.5	13.5	13.5	18.0	15.8	15.8	15.8	18.0
80°	11.2	9.0	9.0	6.8	9.0	9.0	9.0	13.5	11.2	11.2	13.5
82.5°	4.5	4.5	2.2	0.0	4.5	4.5	4.5	4.5	4.5	4.5	9.0
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	4.5	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: P248976

CATALOG NUMBER: LD8B80D010 ER8B80827 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8
2.5°	4608.3	4608.3	4606.0	4601.6	4592.5	4592.5	4590.3	4583.5	4579.1	4576.7	4576.7
5°	4585.7	4576.7	4567.7	4543.0	4543.0	4538.5	4525.0	4515.9	4511.5	4500.2	4495.7
7.5°	4565.5	4538.5	4522.7	4506.9	4486.7	4477.6	4461.9	4455.1	4439.3	4428.1	4421.4
10°	4515.9	4497.9	4477.6	4452.9	4437.1	4419.1	4401.1	4387.6	4367.3	4356.0	4347.0
12.5°	4482.2	4455.1	4437.1	4410.0	4383.1	4367.3	4342.6	4326.8	4306.5	4284.0	4270.4
15°	4450.7	4421.4	4396.6	4367.3	4338.0	4320.0	4290.7	4272.7	4243.5	4220.9	4205.2
17.5°	4403.4	4378.5	4351.6	4315.5	4288.5	4266.0	4234.4	4211.9	4184.9	4155.6	4139.8
20°	4353.8	4324.5	4297.5	4261.4	4234.4	4207.4	4175.9	4151.1	4119.5	4092.5	4074.5
22.5°	4288.5	4254.7	4232.1	4196.1	4164.6	4135.4	4106.1	4076.8	4047.5	4024.9	4004.6
25°	4193.9	4157.8	4133.0	4103.7	4074.5	4052.0	4015.9	3998.0	3968.7	3948.4	3928.1
27.5°	4058.7	4031.7	4009.2	3979.9	3955.1	3937.1	3910.1	3892.1	3867.2	3849.3	3833.5
30°	3860.6	3838.0	3817.7	3788.4	3770.5	3754.7	3729.8	3714.1	3696.1	3675.8	3671.3
32.5°	3594.8	3576.7	3556.5	3536.2	3522.6	3513.7	3493.3	3484.4	3466.4	3455.1	3443.8
35°	3193.8	3178.0	3166.8	3157.8	3153.3	3155.5	3151.1	3160.1	3164.5	3162.3	3164.5
37.5°	2669.1	2660.0	2664.5	2671.3	2693.8	2723.1	2750.1	2790.6	2817.7	2844.8	2869.5
40°	2083.4	2090.2	2108.2	2148.7	2207.3	2272.7	2333.5	2410.0	2486.6	2540.7	2590.2
42.5°	1572.2	1592.5	1637.4	1696.0	1783.9	1880.7	1975.3	2087.9	2180.3	2270.3	2333.5
45°	1182.5	1209.5	1268.1	1349.2	1446.0	1558.6	1678.0	1804.1	1914.5	2006.9	2076.7
47.5°	921.2	946.0	1004.6	1090.2	1209.5	1326.7	1450.5	1581.1	1696.0	1786.1	1846.9
50°	727.5	759.0	810.8	900.9	1020.3	1144.2	1272.6	1400.9	1509.1	1585.7	1639.7
52.5°	572.1	601.4	650.9	745.6	867.2	991.1	1110.4	1236.5	1331.1	1405.5	1441.5
55°	443.7	470.8	522.5	601.4	716.3	837.9	957.2	1065.4	1153.2	1207.2	1241.1
57.5°	337.8	358.1	394.2	473.0	576.6	689.2	790.6	898.7	966.3	1004.6	1027.0
60°	256.8	272.6	310.9	371.7	466.2	563.1	648.7	729.8	783.9	815.4	837.9
62.5°	193.7	211.7	238.7	290.5	362.6	441.5	513.5	574.3	619.4	639.7	655.4
65°	132.9	146.4	166.7	207.2	268.0	324.3	380.7	425.7	455.0	477.5	486.5
67.5°	99.1	108.1	119.4	150.9	193.7	238.7	277.0	308.5	340.1	349.1	364.9
70°	74.4	81.1	92.3	114.9	139.6	171.1	202.8	220.7	243.3	259.0	263.6
72.5°	47.3	49.5	60.8	74.4	94.6	114.9	135.2	150.9	164.5	173.5	177.9
75°	27.1	40.5	40.5	54.0	67.6	76.6	90.1	101.3	108.1	114.9	114.9
77.5°	18.0	24.8	27.1	33.7	40.5	51.8	63.0	69.8	76.6	78.8	78.8
80°	15.8	18.0	18.0	24.8	29.3	38.3	45.1	47.3	51.8	54.0	58.6
82.5°	6.8	9.0	11.2	18.0	20.3	20.3	27.1	29.3	33.7	36.1	36.1
85°	2.2	4.5	4.5	6.8	11.2	13.5	15.8	18.0	20.3	20.3	22.5
87.5°	2.2	2.2	0.0	2.2	4.5	4.5	9.0	9.0	9.0	13.5	13.5
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: P248976

CATALOG NUMBER: LD8B80D010 ER8B80827 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8	4612.8
2.5°	4572.3	4574.5	4565.5	4563.3	4558.8	4561.0	4565.5
5°	4488.9	4491.2	4482.2	4473.2	4473.2	4470.9	4473.2
7.5°	4410.0	4412.4	4398.8	4394.3	4385.3	4387.6	4387.6
10°	4331.2	4331.2	4311.0	4308.7	4302.0	4299.7	4299.7
12.5°	4254.7	4247.9	4232.1	4223.1	4227.7	4214.2	4214.2
15°	4187.1	4175.9	4155.6	4148.8	4137.6	4133.0	4133.0
17.5°	4117.3	4108.3	4090.3	4076.8	4063.2	4061.0	4063.2
20°	4049.7	4040.7	4018.2	4009.2	3998.0	3998.0	3993.4
22.5°	3982.1	3973.1	3952.9	3946.1	3930.4	3930.4	3932.6
25°	3912.3	3905.5	3883.0	3878.6	3876.3	3867.2	3871.8
27.5°	3817.7	3813.2	3795.2	3788.4	3779.4	3777.2	3781.7
30°	3644.3	3637.5	3624.1	3617.3	3601.5	3603.8	3608.2
32.5°	3428.1	3419.1	3401.0	3394.2	3380.8	3376.3	3378.5
35°	3157.8	3151.1	3135.3	3135.3	3121.8	3117.2	3121.8
37.5°	2883.0	2889.7	2883.0	2889.7	2883.0	2880.7	2883.0
40°	2624.0	2648.8	2653.2	2678.1	2669.1	2682.5	2680.3
42.5°	2376.2	2416.7	2432.6	2452.8	2448.3	2457.3	2464.1
45°	2126.2	2160.0	2175.8	2189.3	2191.5	2196.1	2198.3
47.5°	1889.7	1916.7	1919.0	1934.7	1932.5	1932.5	1939.3
50°	1669.0	1687.0	1691.5	1702.8	1693.8	1689.2	1691.5
52.5°	1464.1	1482.0	1477.5	1482.0	1470.8	1466.3	1468.5
55°	1254.5	1263.5	1263.5	1263.5	1250.1	1250.1	1250.1
57.5°	1040.6	1042.9	1038.3	1040.6	1038.3	1024.8	1022.6
60°	844.7	844.7	842.3	844.7	837.9	831.1	831.1
62.5°	659.9	664.4	673.4	664.4	659.9	664.4	657.7
65°	493.3	502.3	500.0	504.5	502.3	502.3	497.8
67.5°	371.7	373.9	376.1	378.4	378.4	378.4	378.4
70°	272.6	279.3	277.0	277.0	277.0	277.0	290.5
72.5°	182.5	191.4	189.2	193.7	193.7	198.2	193.7
75°	123.9	132.9	128.4	135.2	132.9	128.4	139.6
77.5°	83.3	87.9	90.1	92.3	90.1	87.9	90.1
80°	58.6	63.0	60.8	63.0	63.0	63.0	65.4
82.5°	36.1	42.8	40.5	42.8	40.5	42.8	42.8
85°	24.8	27.1	22.5	27.1	24.8	24.8	29.3
87.5°	15.8	13.5	13.5	15.8	13.5	15.8	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)