

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: P248769

Luminaire Tested: **LD8B80D010 ER8B80830 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248769
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 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7449.0 lumens
Efficiency: N/A
Efficacy: 100.1 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

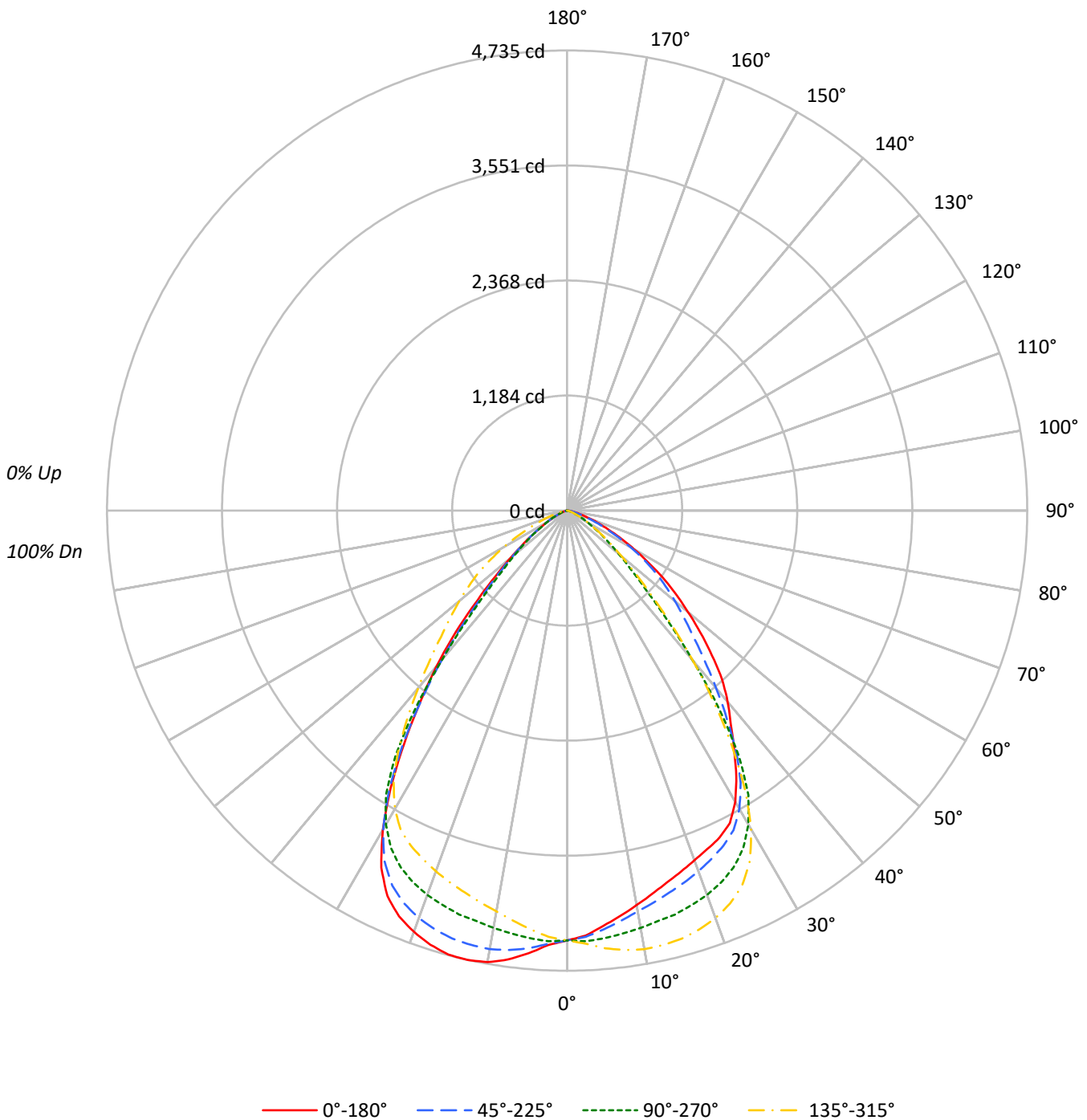
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	136364	136364	136364	136364
5°	132744	136684	141565	136684
10°	129071	136508	147730	136508
15°	126493	137318	150966	137318
20°	125630	138103	151354	138103
25°	126291	137825	148920	137825
30°	123167	132781	135167	132781
35°	112662	115831	109898	115831
40°	103437	80572	84139	80572
45°	91906	49156	56875	49156
50°	77793	32837	36464	32837
55°	64428	22408	23682	22408
60°	49141	14912	15048	14912
65°	34819	9296	8508	9296
70°	25109	6230	5653	6230
75°	15953	3098	2573	3098
80°	11134	2309	1918	2309
85°	9942	0	743	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.9	5.7
10°-20°	1218.9	16.4
20°-30°	1845.7	24.8
30°-40°	1849.8	24.8
40°-50°	1161.6	15.6
50°-60°	619.0	8.3
60°-70°	254.5	3.4
70°-80°	67.3	0.9
80°-90°	11.4	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°	3485.5	46.8
0°-40°	5335.2	71.6
0°-60°	7115.8	95.5
0°-90°	7449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7449.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4422	4422	4422	4422	4422	
5°	4288	4416	4573	4416	4288	404
15°	3962	4301	4729	4301	3962	1121
25°	3712	4051	4377	4051	3712	1702
35°	2993	3077	2919	3077	2993	1875
45°	2108	1127	1304	1127	2108	1621
55°	1198	417	440	417	1198	1068
65°	477	127	117	127	477	495
75°	134	26	22	26	134	152
85°	28	0	2	0	28	31
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°	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2
2.5°	4376.9	4372.6	4370.4	4374.8	4376.9	4385.5	4383.4	4387.7	4387.7	4389.9	4394.1
5°	4288.4	4286.2	4288.4	4288.4	4297.0	4305.6	4303.5	4310.0	4314.2	4325.1	4329.4
7.5°	4206.3	4206.3	4204.1	4212.7	4217.1	4230.1	4227.9	4238.7	4245.2	4255.9	4271.1
10°	4122.1	4122.1	4124.2	4130.7	4132.9	4152.3	4152.3	4167.4	4176.0	4186.9	4206.3
12.5°	4040.1	4040.1	4053.0	4048.7	4057.3	4072.4	4078.9	4094.0	4107.0	4128.6	4148.0
15°	3962.3	3962.3	3966.6	3977.4	3983.9	4003.4	4014.1	4031.4	4046.5	4068.1	4096.2
17.5°	3895.4	3893.2	3895.4	3908.3	3921.3	3938.6	3947.2	3968.8	3983.9	4012.0	4037.9
20°	3828.4	3832.8	3832.8	3843.5	3852.2	3873.8	3882.4	3906.2	3923.4	3949.3	3979.6
22.5°	3770.1	3768.0	3768.0	3783.1	3789.6	3809.0	3817.6	3839.2	3858.7	3880.3	3908.3
25°	3711.8	3707.5	3716.2	3718.3	3722.6	3744.2	3750.7	3765.8	3785.2	3804.7	3832.8
27.5°	3625.4	3621.2	3623.3	3631.9	3638.4	3655.7	3660.0	3675.1	3690.2	3707.5	3731.3
30°	3459.1	3454.9	3452.7	3467.9	3474.3	3487.2	3493.7	3519.7	3523.9	3543.4	3560.6
32.5°	3238.9	3236.8	3241.1	3254.0	3260.5	3277.8	3286.5	3301.6	3312.3	3323.2	3340.4
35°	2992.8	2988.4	2992.8	3005.8	3005.8	3020.9	3027.4	3033.8	3031.6	3033.8	3029.5
37.5°	2763.9	2761.7	2763.9	2770.3	2763.9	2770.3	2763.9	2751.0	2727.2	2701.3	2675.3
40°	2569.6	2571.7	2558.8	2567.4	2543.6	2539.3	2515.6	2483.2	2435.7	2383.9	2310.5
42.5°	2362.3	2355.8	2347.2	2351.5	2332.1	2316.9	2278.0	2237.1	2176.5	2090.2	2001.6
45°	2107.5	2105.4	2101.0	2098.9	2085.9	2070.8	2038.3	1990.9	1924.0	1835.4	1729.6
47.5°	1859.2	1852.7	1852.7	1854.8	1839.7	1837.6	1811.6	1770.6	1712.3	1625.9	1515.8
50°	1621.6	1619.5	1623.8	1632.4	1621.6	1617.3	1600.1	1572.0	1520.2	1446.8	1343.0
52.5°	1407.8	1405.7	1410.1	1420.8	1416.5	1420.8	1403.6	1382.0	1347.4	1276.1	1185.5
55°	1198.4	1198.4	1198.4	1211.3	1211.3	1211.3	1202.7	1189.8	1157.4	1105.6	1021.4
57.5°	980.3	982.5	995.4	997.6	995.4	999.8	997.6	984.6	963.1	926.4	861.6
60°	796.8	796.8	803.3	809.8	807.5	809.8	809.8	803.3	781.7	751.5	699.7
62.5°	630.5	637.0	632.6	637.0	645.6	637.0	632.6	628.4	613.3	593.8	550.6
65°	477.2	481.5	481.5	483.7	479.3	481.5	472.9	466.4	457.8	436.2	408.1
67.5°	362.8	362.8	362.8	362.8	360.6	358.4	356.3	349.8	334.7	326.1	295.8
70°	278.5	265.6	265.6	265.6	265.6	267.8	261.3	252.7	248.3	233.2	211.6
72.5°	185.7	190.0	185.7	185.7	181.4	183.5	174.9	170.6	166.3	157.7	144.7
75°	133.9	123.1	127.4	129.6	123.1	127.4	118.7	110.1	110.1	103.6	97.1
77.5°	86.4	84.3	86.4	88.5	86.4	84.3	79.9	75.5	75.5	73.4	66.9
80°	62.7	60.4	60.4	60.4	58.3	60.4	56.2	56.2	51.8	49.7	45.3
82.5°	41.1	41.1	38.8	41.1	38.8	41.1	34.6	34.6	34.6	32.4	28.1
85°	28.1	23.7	23.7	26.0	21.6	26.0	23.7	21.6	19.5	19.5	17.2
87.5°	13.0	15.1	13.0	15.1	13.0	13.0	15.1	13.0	13.0	8.6	8.6
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: P248769

CATALOG NUMBER: LD8B80D010 ER8B80830 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2
2.5°	4400.6	4402.8	4402.8	4411.5	4415.7	4417.9	4417.9	4435.2	4428.7	4433.1	4437.3
5°	4338.1	4351.0	4355.3	4355.3	4379.0	4387.7	4396.3	4415.7	4417.9	4430.9	4446.0
7.5°	4277.5	4292.7	4301.4	4320.7	4335.8	4351.0	4376.9	4389.9	4402.8	4420.1	4439.5
10°	4219.2	4236.6	4253.8	4268.9	4292.7	4312.1	4329.4	4359.6	4374.8	4398.5	4424.4
12.5°	4163.2	4186.9	4202.0	4227.9	4253.8	4271.1	4297.0	4325.1	4348.8	4372.6	4402.8
15°	4113.5	4141.6	4158.8	4186.9	4215.0	4238.7	4266.8	4301.4	4318.6	4346.7	4374.8
17.5°	4059.4	4089.7	4111.3	4137.2	4171.8	4197.6	4221.5	4255.9	4277.5	4307.8	4340.2
20°	4003.4	4033.6	4059.4	4085.4	4120.0	4145.8	4173.9	4208.5	4232.2	4262.4	4288.4
22.5°	3936.4	3964.5	3992.5	4022.7	4057.3	4078.9	4111.3	4141.6	4167.4	4195.5	4221.5
25°	3850.0	3884.6	3906.2	3934.2	3962.3	3986.0	4020.6	4050.8	4072.4	4098.4	4122.1
27.5°	3748.5	3774.5	3791.7	3815.5	3843.5	3865.1	3891.0	3921.3	3942.9	3966.6	3983.9
30°	3575.8	3599.6	3614.7	3631.9	3660.0	3679.5	3701.1	3729.1	3744.2	3761.5	3776.6
32.5°	3349.0	3368.5	3377.1	3390.1	3409.6	3428.9	3446.3	3470.0	3476.5	3487.2	3487.2
35°	3020.9	3025.2	3023.0	3027.4	3036.0	3046.8	3061.9	3077.0	3085.6	3085.6	3079.2
37.5°	2636.5	2610.6	2582.5	2560.9	2554.5	2550.1	2558.8	2565.2	2573.9	2578.2	2567.4
40°	2237.1	2178.8	2116.1	2059.9	2021.1	2003.9	1997.4	2001.6	2001.6	2016.7	2016.7
42.5°	1893.7	1803.0	1710.2	1625.9	1569.8	1526.7	1507.2	1507.2	1509.3	1520.2	1526.7
45°	1608.7	1494.2	1386.2	1293.4	1215.7	1159.5	1133.6	1127.2	1125.0	1129.3	1144.4
47.5°	1390.6	1271.9	1159.5	1045.1	963.1	906.9	883.2	874.5	865.9	874.5	876.7
50°	1220.0	1096.9	978.2	863.7	777.3	727.6	697.4	684.5	682.3	682.3	686.7
52.5°	1064.5	950.1	831.4	714.8	624.0	576.6	548.5	542.0	533.4	542.0	542.0
55°	917.7	803.3	686.7	576.6	500.9	451.3	425.4	416.8	412.4	418.9	418.9
57.5°	758.0	660.7	552.8	453.5	377.9	343.3	323.9	313.1	310.9	315.3	310.9
60°	621.9	539.8	447.0	356.3	298.0	261.3	246.2	241.8	237.5	241.8	241.8
62.5°	492.3	423.2	347.6	278.5	228.9	203.0	185.7	185.7	183.5	183.5	185.7
65°	364.9	310.9	256.9	198.6	159.8	140.3	127.4	127.4	125.2	127.4	125.2
67.5°	265.6	228.9	185.7	144.7	114.5	103.6	95.0	88.5	92.9	88.5	86.4
70°	194.4	164.1	133.9	110.1	88.5	77.8	71.3	69.1	64.8	64.8	64.8
72.5°	129.6	110.1	90.7	71.3	58.3	47.5	45.3	41.1	36.7	38.8	43.2
75°	86.4	73.4	64.8	51.8	38.8	38.8	26.0	26.0	21.6	26.0	19.5
77.5°	60.4	49.7	38.8	32.4	26.0	23.7	17.2	17.2	15.1	15.1	15.1
80°	43.2	36.7	28.1	23.7	17.2	17.2	15.1	13.0	10.8	10.8	13.0
82.5°	26.0	19.5	19.5	17.2	10.8	8.6	6.5	8.6	4.4	4.4	4.4
85°	15.1	13.0	10.8	6.5	4.4	4.4	2.1	0.0	2.1	2.1	0.0
87.5°	8.6	4.4	4.4	2.1	0.0	2.1	2.1	0.0	0.0	0.0	4.4
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: P248769

CATALOG NUMBER: LD8B80D010 ER8B80830 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2
2.5°	4448.2	4446.0	4450.3	4450.3	4463.3	4461.1	4467.6	4467.6	4463.3	4465.4	4474.1
5°	4463.3	4469.8	4482.7	4493.5	4512.9	4521.6	4532.4	4543.2	4545.3	4551.8	4558.3
7.5°	4463.3	4484.9	4500.0	4519.4	4545.3	4560.4	4584.2	4603.6	4612.3	4623.0	4636.0
10°	4454.6	4476.2	4504.3	4525.9	4558.3	4582.0	4605.8	4636.0	4649.0	4666.2	4683.5
12.5°	4437.3	4461.1	4491.3	4519.4	4556.1	4577.7	4607.9	4636.0	4655.5	4679.2	4698.6
15°	4411.5	4439.5	4467.6	4495.6	4534.5	4560.4	4588.5	4620.9	4640.3	4666.2	4683.5
17.5°	4370.4	4400.6	4426.6	4452.5	4489.2	4519.4	4545.3	4575.6	4595.0	4616.6	4640.3
20°	4320.7	4348.8	4376.9	4398.5	4435.2	4461.1	4489.2	4517.2	4532.4	4536.7	4573.4
22.5°	4258.2	4277.5	4299.1	4333.7	4355.3	4379.0	4405.0	4430.9	4446.0	4469.8	4482.7
25°	4154.4	4173.9	4197.6	4212.7	4238.7	4258.2	4284.0	4312.1	4320.7	4338.1	4351.0
27.5°	4009.8	4020.6	4031.4	4044.3	4059.4	4070.3	4085.4	4098.4	4107.0	4115.6	4124.2
30°	3780.9	3780.9	3780.9	3772.3	3778.8	3785.2	3787.4	3785.2	3785.2	3783.1	3783.1
32.5°	3478.6	3461.4	3441.9	3424.7	3418.2	3409.6	3405.2	3398.7	3388.0	3381.5	3383.6
35°	3070.5	3031.6	3007.9	2986.3	2969.1	2956.1	2949.6	2943.1	2941.0	2932.4	2923.7
37.5°	2560.9	2532.9	2515.6	2502.6	2487.5	2474.6	2476.7	2478.9	2485.3	2481.0	2483.2
40°	2021.1	2014.6	2021.1	2006.0	2001.6	2006.0	2016.7	2031.9	2040.6	2049.2	2064.3
42.5°	1537.4	1548.2	1563.4	1563.4	1569.8	1578.5	1591.4	1615.2	1628.1	1643.2	1660.5
45°	1157.4	1170.4	1189.8	1196.2	1200.6	1211.3	1226.5	1245.9	1254.5	1267.5	1282.6
47.5°	891.8	900.4	911.2	922.0	932.8	937.1	952.2	952.2	963.1	971.7	976.0
50°	695.3	703.9	712.5	719.0	723.4	729.9	734.1	740.6	742.8	747.1	749.2
52.5°	544.1	555.0	555.0	559.2	565.7	572.2	570.1	572.2	574.3	574.3	580.8
55°	425.4	425.4	431.9	431.9	436.2	434.0	436.2	436.2	436.2	436.2	438.3
57.5°	317.4	319.6	326.1	321.7	319.6	323.9	319.6	323.9	321.7	326.1	319.6
60°	244.0	244.0	246.2	246.2	248.3	248.3	248.3	246.2	246.2	244.0	244.0
62.5°	183.5	185.7	187.9	185.7	185.7	185.7	183.5	183.5	181.4	179.2	179.2
65°	123.1	121.0	125.2	121.0	123.1	123.1	121.0	123.1	116.6	118.7	116.6
67.5°	88.5	86.4	84.3	86.4	84.3	82.0	82.0	84.3	86.4	79.9	79.9
70°	58.3	60.4	58.3	60.4	62.7	62.7	60.4	58.3	60.4	56.2	58.3
72.5°	36.7	36.7	36.7	36.7	36.7	38.8	38.8	38.8	34.6	34.6	32.4
75°	17.2	23.7	19.5	17.2	23.7	23.7	21.6	21.6	19.5	19.5	19.5
77.5°	17.2	13.0	13.0	13.0	13.0	13.0	13.0	13.0	10.8	13.0	10.8
80°	8.6	8.6	8.6	6.5	8.6	8.6	10.8	8.6	8.6	6.5	10.8
82.5°	4.4	4.4	4.4	0.0	2.1	4.4	4.4	2.1	4.4	4.4	2.1
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: P248769

CATALOG NUMBER: LD8B80D010 ER8B80830 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2
2.5°	4471.9	4469.8	4471.9	4474.1	4471.9	4469.8	4471.9	4474.1	4465.4	4463.3	4467.6
5°	4566.9	4566.9	4571.2	4573.4	4571.2	4566.9	4566.9	4558.3	4551.8	4545.3	4543.2
7.5°	4649.0	4653.3	4657.6	4659.7	4657.6	4653.3	4649.0	4636.0	4623.0	4612.3	4603.6
10°	4698.6	4705.1	4713.8	4718.0	4713.8	4705.1	4698.6	4683.5	4666.2	4649.0	4636.0
12.5°	4720.2	4726.7	4737.5	4735.4	4737.5	4726.7	4720.2	4698.6	4679.2	4655.5	4636.0
15°	4705.1	4713.8	4724.5	4728.9	4724.5	4713.8	4705.1	4683.5	4666.2	4640.3	4620.9
17.5°	4657.6	4670.6	4677.0	4683.5	4677.0	4670.6	4657.6	4640.3	4616.6	4595.0	4575.6
20°	4592.8	4601.5	4610.1	4612.3	4610.1	4601.5	4592.8	4573.4	4536.7	4532.4	4517.2
22.5°	4500.0	4506.5	4525.9	4519.4	4525.9	4506.5	4500.0	4482.7	4469.8	4446.0	4430.9
25°	4366.1	4372.6	4374.8	4376.9	4374.8	4372.6	4366.1	4351.0	4338.1	4320.7	4312.1
27.5°	4135.1	4135.1	4139.3	4141.6	4139.3	4135.1	4135.1	4124.2	4115.6	4107.0	4098.4
30°	3785.2	3785.2	3785.2	3796.1	3785.2	3785.2	3785.2	3783.1	3783.1	3785.2	3785.2
32.5°	3381.5	3377.1	3372.8	3377.1	3372.8	3377.1	3381.5	3383.6	3381.5	3388.0	3398.7
35°	2923.7	2921.5	2928.0	2919.4	2928.0	2921.5	2923.7	2923.7	2932.4	2941.0	2943.1
37.5°	2485.3	2481.0	2489.7	2481.0	2489.7	2481.0	2485.3	2483.2	2481.0	2485.3	2478.9
40°	2068.6	2072.9	2072.9	2090.2	2072.9	2072.9	2068.6	2064.3	2049.2	2040.6	2031.9
42.5°	1669.1	1682.1	1677.8	1690.7	1677.8	1682.1	1669.1	1660.5	1643.2	1628.1	1615.2
45°	1291.2	1299.9	1299.9	1304.2	1299.9	1299.9	1291.2	1282.6	1267.5	1254.5	1245.9
47.5°	991.1	991.1	991.1	993.3	991.1	991.1	991.1	976.0	971.7	963.1	952.2
50°	753.6	755.7	758.0	760.1	758.0	755.7	753.6	749.2	747.1	742.8	740.6
52.5°	578.7	580.8	576.6	580.8	576.6	580.8	578.7	580.8	574.3	574.3	572.2
55°	438.3	436.2	438.3	440.5	438.3	436.2	438.3	438.3	436.2	436.2	436.2
57.5°	321.7	317.4	317.4	317.4	317.4	317.4	321.7	319.6	326.1	321.7	323.9
60°	239.7	241.8	241.8	244.0	241.8	241.8	239.7	244.0	244.0	246.2	246.2
62.5°	177.0	183.5	179.2	183.5	179.2	183.5	177.0	179.2	179.2	181.4	183.5
65°	114.5	114.5	114.5	116.6	114.5	114.5	114.5	116.6	118.7	116.6	123.1
67.5°	77.8	79.9	84.3	82.0	84.3	79.9	77.8	79.9	79.9	86.4	84.3
70°	62.7	56.2	56.2	62.7	56.2	56.2	62.7	58.3	56.2	60.4	58.3
72.5°	36.7	32.4	36.7	36.7	36.7	32.4	36.7	32.4	34.6	34.6	38.8
75°	19.5	17.2	15.1	21.6	15.1	17.2	19.5	19.5	19.5	19.5	21.6
77.5°	13.0	10.8	15.1	15.1	15.1	10.8	13.0	10.8	13.0	10.8	13.0
80°	6.5	8.6	6.5	10.8	6.5	8.6	6.5	10.8	6.5	8.6	8.6
82.5°	2.1	4.4	4.4	4.4	4.4	4.4	2.1	2.1	4.4	4.4	2.1
85°	0.0	4.4	2.1	2.1	2.1	4.4	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	0.0	0.0	2.1	0.0	0.0	2.1	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: P248769

CATALOG NUMBER: LD8B80D010 ER8B80830 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2
2.5°	4467.6	4461.1	4463.3	4450.3	4450.3	4446.0	4448.2	4437.3	4433.1	4428.7	4435.2
5°	4532.4	4521.6	4512.9	4493.5	4482.7	4469.8	4463.3	4446.0	4430.9	4417.9	4415.7
7.5°	4584.2	4560.4	4545.3	4519.4	4500.0	4484.9	4463.3	4439.5	4420.1	4402.8	4389.9
10°	4605.8	4582.0	4558.3	4525.9	4504.3	4476.2	4454.6	4424.4	4398.5	4374.8	4359.6
12.5°	4607.9	4577.7	4556.1	4519.4	4491.3	4461.1	4437.3	4402.8	4372.6	4348.8	4325.1
15°	4588.5	4560.4	4534.5	4495.6	4467.6	4439.5	4411.5	4374.8	4346.7	4318.6	4301.4
17.5°	4545.3	4519.4	4489.2	4452.5	4426.6	4400.6	4370.4	4340.2	4307.8	4277.5	4255.9
20°	4489.2	4461.1	4435.2	4398.5	4376.9	4348.8	4320.7	4288.4	4262.4	4232.2	4208.5
22.5°	4405.0	4379.0	4355.3	4333.7	4299.1	4277.5	4258.2	4221.5	4195.5	4167.4	4141.6
25°	4284.0	4258.2	4238.7	4212.7	4197.6	4173.9	4154.4	4122.1	4098.4	4072.4	4050.8
27.5°	4085.4	4070.3	4059.4	4044.3	4031.4	4020.6	4009.8	3983.9	3966.6	3942.9	3921.3
30°	3787.4	3785.2	3778.8	3772.3	3780.9	3780.9	3780.9	3776.6	3761.5	3744.2	3729.1
32.5°	3405.2	3409.6	3418.2	3424.7	3441.9	3461.4	3478.6	3487.2	3487.2	3476.5	3470.0
35°	2949.6	2956.1	2969.1	2986.3	3007.9	3031.6	3070.5	3079.2	3085.6	3085.6	3077.0
37.5°	2476.7	2474.6	2487.5	2502.6	2515.6	2532.9	2560.9	2567.4	2578.2	2573.9	2565.2
40°	2016.7	2006.0	2001.6	2006.0	2021.1	2014.6	2021.1	2016.7	2016.7	2001.6	2001.6
42.5°	1591.4	1578.5	1569.8	1563.4	1563.4	1548.2	1537.4	1526.7	1520.2	1509.3	1507.2
45°	1226.5	1211.3	1200.6	1196.2	1189.8	1170.4	1157.4	1144.4	1129.3	1125.0	1127.2
47.5°	952.2	937.1	932.8	922.0	911.2	900.4	891.8	876.7	874.5	865.9	874.5
50°	734.1	729.9	723.4	719.0	712.5	703.9	695.3	686.7	682.3	682.3	684.5
52.5°	570.1	572.2	565.7	559.2	555.0	555.0	544.1	542.0	542.0	533.4	542.0
55°	436.2	434.0	436.2	431.9	431.9	425.4	425.4	418.9	418.9	412.4	416.8
57.5°	319.6	323.9	319.6	321.7	326.1	319.6	317.4	310.9	315.3	310.9	313.1
60°	248.3	248.3	248.3	246.2	246.2	244.0	244.0	241.8	241.8	237.5	241.8
62.5°	183.5	185.7	185.7	185.7	187.9	185.7	183.5	185.7	183.5	183.5	185.7
65°	121.0	123.1	123.1	121.0	125.2	121.0	123.1	125.2	127.4	125.2	127.4
67.5°	82.0	82.0	84.3	86.4	84.3	86.4	88.5	86.4	88.5	92.9	88.5
70°	60.4	62.7	62.7	60.4	58.3	60.4	58.3	64.8	64.8	64.8	69.1
72.5°	38.8	38.8	36.7	36.7	36.7	36.7	36.7	43.2	38.8	36.7	41.1
75°	21.6	23.7	23.7	17.2	19.5	23.7	17.2	19.5	26.0	21.6	26.0
77.5°	13.0	13.0	13.0	13.0	13.0	13.0	17.2	15.1	15.1	15.1	17.2
80°	10.8	8.6	8.6	6.5	8.6	8.6	8.6	13.0	10.8	10.8	13.0
82.5°	4.4	4.4	2.1	0.0	4.4	4.4	4.4	4.4	4.4	4.4	8.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	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: P248769

CATALOG NUMBER: LD8B80D010 ER8B80830 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2
2.5°	4417.9	4417.9	4415.7	4411.5	4402.8	4402.8	4400.6	4394.1	4389.9	4387.7	4387.7
5°	4396.3	4387.7	4379.0	4355.3	4355.3	4351.0	4338.1	4329.4	4325.1	4314.2	4310.0
7.5°	4376.9	4351.0	4335.8	4320.7	4301.4	4292.7	4277.5	4271.1	4255.9	4245.2	4238.7
10°	4329.4	4312.1	4292.7	4268.9	4253.8	4236.6	4219.2	4206.3	4186.9	4176.0	4167.4
12.5°	4297.0	4271.1	4253.8	4227.9	4202.0	4186.9	4163.2	4148.0	4128.6	4107.0	4094.0
15°	4266.8	4238.7	4215.0	4186.9	4158.8	4141.6	4113.5	4096.2	4068.1	4046.5	4031.4
17.5°	4221.5	4197.6	4171.8	4137.2	4111.3	4089.7	4059.4	4037.9	4012.0	3983.9	3968.8
20°	4173.9	4145.8	4120.0	4085.4	4059.4	4033.6	4003.4	3979.6	3949.3	3923.4	3906.2
22.5°	4111.3	4078.9	4057.3	4022.7	3992.5	3964.5	3936.4	3908.3	3880.3	3858.7	3839.2
25°	4020.6	3986.0	3962.3	3934.2	3906.2	3884.6	3850.0	3832.8	3804.7	3785.2	3765.8
27.5°	3891.0	3865.1	3843.5	3815.5	3791.7	3774.5	3748.5	3731.3	3707.5	3690.2	3675.1
30°	3701.1	3679.5	3660.0	3631.9	3614.7	3599.6	3575.8	3560.6	3543.4	3523.9	3519.7
32.5°	3446.3	3428.9	3409.6	3390.1	3377.1	3368.5	3349.0	3340.4	3323.2	3312.3	3301.6
35°	3061.9	3046.8	3036.0	3027.4	3023.0	3025.2	3020.9	3029.5	3033.8	3031.6	3033.8
37.5°	2558.8	2550.1	2554.5	2560.9	2582.5	2610.6	2636.5	2675.3	2701.3	2727.2	2751.0
40°	1997.4	2003.9	2021.1	2059.9	2116.1	2178.8	2237.1	2310.5	2383.9	2435.7	2483.2
42.5°	1507.2	1526.7	1569.8	1625.9	1710.2	1803.0	1893.7	2001.6	2090.2	2176.5	2237.1
45°	1133.6	1159.5	1215.7	1293.4	1386.2	1494.2	1608.7	1729.6	1835.4	1924.0	1990.9
47.5°	883.2	906.9	963.1	1045.1	1159.5	1271.9	1390.6	1515.8	1625.9	1712.3	1770.6
50°	697.4	727.6	777.3	863.7	978.2	1096.9	1220.0	1343.0	1446.8	1520.2	1572.0
52.5°	548.5	576.6	624.0	714.8	831.4	950.1	1064.5	1185.5	1276.1	1347.4	1382.0
55°	425.4	451.3	500.9	576.6	686.7	803.3	917.7	1021.4	1105.6	1157.4	1189.8
57.5°	323.9	343.3	377.9	453.5	552.8	660.7	758.0	861.6	926.4	963.1	984.6
60°	246.2	261.3	298.0	356.3	447.0	539.8	621.9	699.7	751.5	781.7	803.3
62.5°	185.7	203.0	228.9	278.5	347.6	423.2	492.3	550.6	593.8	613.3	628.4
65°	127.4	140.3	159.8	198.6	256.9	310.9	364.9	408.1	436.2	457.8	466.4
67.5°	95.0	103.6	114.5	144.7	185.7	228.9	265.6	295.8	326.1	334.7	349.8
70°	71.3	77.8	88.5	110.1	133.9	164.1	194.4	211.6	233.2	248.3	252.7
72.5°	45.3	47.5	58.3	71.3	90.7	110.1	129.6	144.7	157.7	166.3	170.6
75°	26.0	38.8	38.8	51.8	64.8	73.4	86.4	97.1	103.6	110.1	110.1
77.5°	17.2	23.7	26.0	32.4	38.8	49.7	60.4	66.9	73.4	75.5	75.5
80°	15.1	17.2	17.2	23.7	28.1	36.7	43.2	45.3	49.7	51.8	56.2
82.5°	6.5	8.6	10.8	17.2	19.5	19.5	26.0	28.1	32.4	34.6	34.6
85°	2.1	4.4	4.4	6.5	10.8	13.0	15.1	17.2	19.5	19.5	21.6
87.5°	2.1	2.1	0.0	2.1	4.4	4.4	8.6	8.6	8.6	13.0	13.0
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: P248769

CATALOG NUMBER: LD8B80D010 ER8B80830 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2	4422.2
2.5°	4383.4	4385.5	4376.9	4374.8	4370.4	4372.6	4376.9
5°	4303.5	4305.6	4297.0	4288.4	4288.4	4286.2	4288.4
7.5°	4227.9	4230.1	4217.1	4212.7	4204.1	4206.3	4206.3
10°	4152.3	4152.3	4132.9	4130.7	4124.2	4122.1	4122.1
12.5°	4078.9	4072.4	4057.3	4048.7	4053.0	4040.1	4040.1
15°	4014.1	4003.4	3983.9	3977.4	3966.6	3962.3	3962.3
17.5°	3947.2	3938.6	3921.3	3908.3	3895.4	3893.2	3895.4
20°	3882.4	3873.8	3852.2	3843.5	3832.8	3832.8	3828.4
22.5°	3817.6	3809.0	3789.6	3783.1	3768.0	3768.0	3770.1
25°	3750.7	3744.2	3722.6	3718.3	3716.2	3707.5	3711.8
27.5°	3660.0	3655.7	3638.4	3631.9	3623.3	3621.2	3625.4
30°	3493.7	3487.2	3474.3	3467.9	3452.7	3454.9	3459.1
32.5°	3286.5	3277.8	3260.5	3254.0	3241.1	3236.8	3238.9
35°	3027.4	3020.9	3005.8	3005.8	2992.8	2988.4	2992.8
37.5°	2763.9	2770.3	2763.9	2770.3	2763.9	2761.7	2763.9
40°	2515.6	2539.3	2543.6	2567.4	2558.8	2571.7	2569.6
42.5°	2278.0	2316.9	2332.1	2351.5	2347.2	2355.8	2362.3
45°	2038.3	2070.8	2085.9	2098.9	2101.0	2105.4	2107.5
47.5°	1811.6	1837.6	1839.7	1854.8	1852.7	1852.7	1859.2
50°	1600.1	1617.3	1621.6	1632.4	1623.8	1619.5	1621.6
52.5°	1403.6	1420.8	1416.5	1420.8	1410.1	1405.7	1407.8
55°	1202.7	1211.3	1211.3	1211.3	1198.4	1198.4	1198.4
57.5°	997.6	999.8	995.4	997.6	995.4	982.5	980.3
60°	809.8	809.8	807.5	809.8	803.3	796.8	796.8
62.5°	632.6	637.0	645.6	637.0	632.6	637.0	630.5
65°	472.9	481.5	479.3	483.7	481.5	481.5	477.2
67.5°	356.3	358.4	360.6	362.8	362.8	362.8	362.8
70°	261.3	267.8	265.6	265.6	265.6	265.6	278.5
72.5°	174.9	183.5	181.4	185.7	185.7	190.0	185.7
75°	118.7	127.4	123.1	129.6	127.4	123.1	133.9
77.5°	79.9	84.3	86.4	88.5	86.4	84.3	86.4
80°	56.2	60.4	58.3	60.4	60.4	60.4	62.7
82.5°	34.6	41.1	38.8	41.1	38.8	41.1	41.1
85°	23.7	26.0	21.6	26.0	23.7	23.7	28.1
87.5°	15.1	13.0	13.0	15.1	13.0	15.1	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)