

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: P248778

Luminaire Tested: **LD8B80D010 ER8B80835 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248778
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 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7747.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

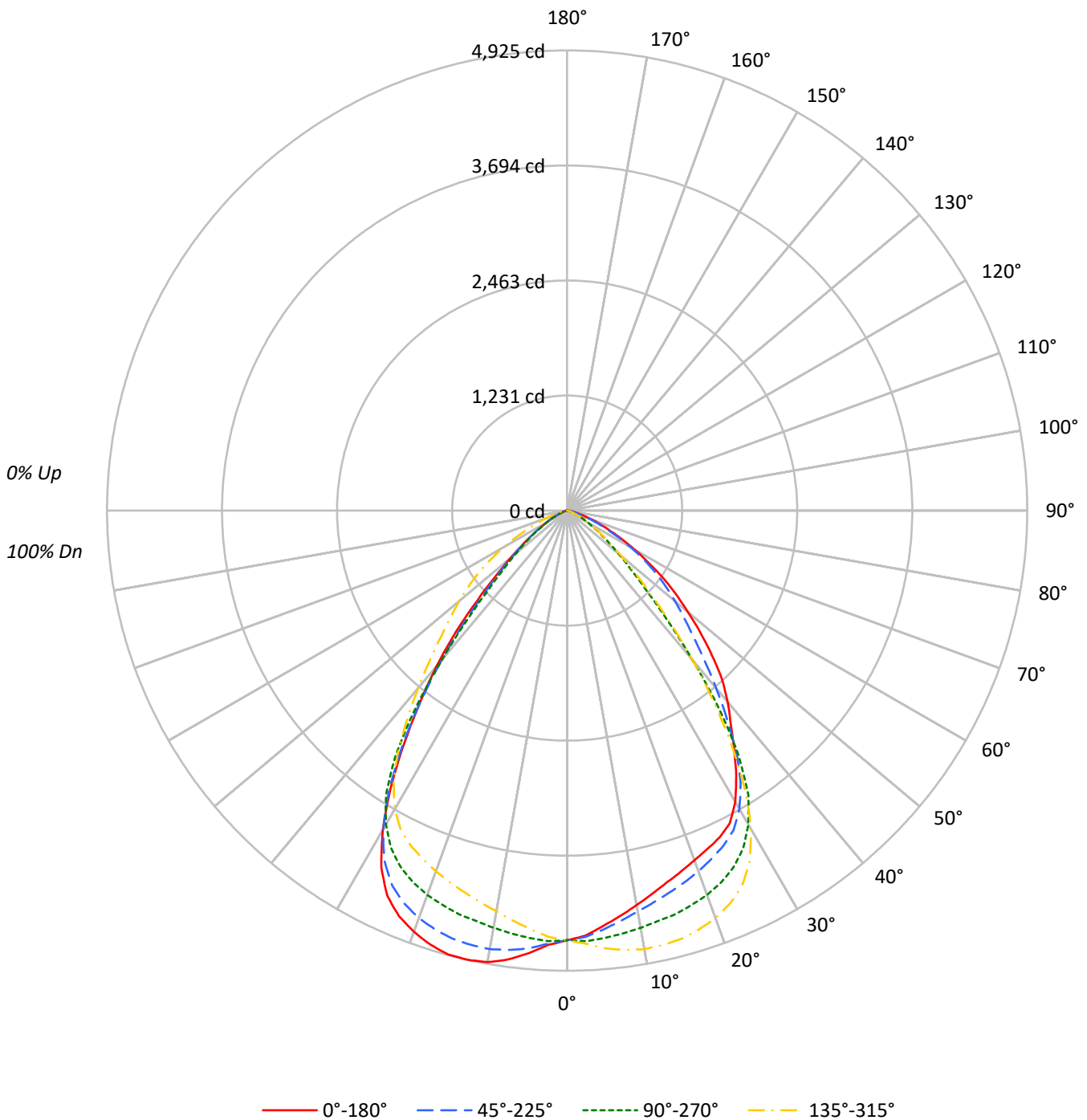
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248778

CATALOG NUMBER: LD8B80D010 ER8B80835 8LBSW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P248778

CATALOG NUMBER: LD8B80D010 ER8B80835 8LBSW0GPH

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°	141819	141819	141819	141819
5°	138052	142154	147230	142154
10°	134235	141969	153642	141969
15°	131553	142809	157003	142809
20°	130657	143626	157409	143626
25°	131343	143340	154878	143340
30°	128095	138093	140575	138093
35°	117168	120465	114295	120465
40°	107575	83797	87508	83797
45°	95582	51119	59151	51119
50°	80906	34147	37922	34147
55°	67008	23300	24628	23300
60°	51108	15511	15646	15511
65°	36212	9668	8851	9668
70°	26119	6473	5878	6473
75°	16585	3217	2681	3217
80°	11578	2397	1989	2397
85°	10331	0	778	0



TEST NUMBER: P248778

CATALOG NUMBER: LD8B80D010 ER8B80835 8LBSW0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.8	5.7
10°-20°	1267.6	16.4
20°-30°	1919.5	24.8
30°-40°	1923.8	24.8
40°-50°	1208.0	15.6
50°-60°	643.8	8.3
60°-70°	264.7	3.4
70°-80°	69.9	0.9
80°-90°	11.8	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°	3624.9	46.8
0°-40°	5548.7	71.6
0°-60°	7400.5	95.5
0°-90°	7747.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7747.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4599	4599	4599	4599	4599	
5°	4460	4592	4756	4592	4460	421
15°	4121	4473	4918	4473	4121	1165
25°	3860	4213	4552	4213	3860	1770
35°	3112	3200	3036	3200	3112	1950
45°	2192	1172	1356	1172	2192	1686
55°	1246	433	458	433	1246	1111
65°	496	132	121	132	496	515
75°	139	27	22	27	139	158
85°	29	0	2	0	29	32
90°	0	0	0	0	0	



TEST NUMBER: P248778

CATALOG NUMBER: LD8B80D010 ER8B80835 8LBSW0GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1
2.5°	4552.0	4547.5	4545.3	4549.8	4552.0	4561.0	4558.8	4563.2	4563.2	4565.5	4569.9
5°	4459.9	4457.6	4459.9	4459.9	4468.9	4477.9	4475.7	4482.4	4486.8	4498.1	4502.6
7.5°	4374.6	4374.6	4372.3	4381.3	4385.8	4399.3	4397.0	4408.3	4415.0	4426.2	4441.9
10°	4287.0	4287.0	4289.2	4296.0	4298.3	4318.4	4318.4	4334.1	4343.1	4354.4	4374.6
12.5°	4201.7	4201.7	4215.2	4210.6	4219.6	4235.3	4242.1	4257.8	4271.3	4293.7	4314.0
15°	4120.8	4120.8	4125.3	4136.5	4143.3	4163.5	4174.7	4192.7	4208.4	4230.9	4260.1
17.5°	4051.2	4049.0	4051.2	4064.7	4078.2	4096.1	4105.1	4127.6	4143.3	4172.5	4199.5
20°	3981.6	3986.1	3986.1	3997.3	4006.3	4028.7	4037.7	4062.5	4080.4	4107.3	4138.8
22.5°	3921.0	3918.7	3918.7	3934.5	3941.2	3961.4	3970.3	3992.8	4013.0	4035.5	4064.7
25°	3860.3	3855.8	3864.9	3867.1	3871.5	3894.0	3900.7	3916.4	3936.7	3956.9	3986.1
27.5°	3770.5	3766.0	3768.3	3777.2	3784.0	3801.9	3806.4	3822.1	3837.9	3855.8	3880.6
30°	3597.5	3593.1	3590.9	3606.6	3613.3	3626.7	3633.5	3660.5	3664.9	3685.2	3703.1
32.5°	3368.5	3366.3	3370.8	3384.2	3390.9	3409.0	3417.9	3433.6	3444.8	3456.1	3474.0
35°	3112.5	3108.0	3112.5	3126.0	3126.0	3141.7	3148.5	3155.1	3152.9	3155.1	3150.7
37.5°	2874.5	2872.2	2874.5	2881.2	2874.5	2881.2	2874.5	2861.0	2836.3	2809.3	2782.4
40°	2672.4	2674.6	2661.2	2670.1	2645.4	2640.9	2616.3	2582.5	2533.2	2479.3	2402.9
42.5°	2456.8	2450.1	2441.1	2445.5	2425.4	2409.6	2369.2	2326.6	2263.6	2173.9	2081.7
45°	2191.8	2189.6	2185.0	2182.8	2169.3	2153.6	2119.9	2070.5	2000.9	1908.9	1798.8
47.5°	1933.5	1926.8	1926.8	1929.0	1913.3	1911.1	1884.1	1841.5	1780.8	1691.0	1576.5
50°	1686.5	1684.2	1688.8	1697.7	1686.5	1682.0	1664.1	1634.9	1581.0	1504.6	1396.8
52.5°	1464.2	1461.9	1466.5	1477.7	1473.1	1477.7	1459.7	1437.3	1401.3	1327.2	1232.9
55°	1246.4	1246.4	1246.4	1259.8	1259.8	1259.8	1250.8	1237.4	1203.7	1149.8	1062.3
57.5°	1019.5	1021.8	1035.3	1037.5	1035.3	1039.8	1037.5	1024.0	1001.6	963.4	896.1
60°	828.7	828.7	835.4	842.2	839.9	842.2	842.2	835.4	813.0	781.5	727.6
62.5°	655.7	662.5	657.9	662.5	671.4	662.5	657.9	653.5	637.8	617.6	572.6
65°	496.3	500.8	500.8	503.0	498.5	500.8	491.8	485.1	476.1	453.7	424.5
67.5°	377.3	377.3	377.3	377.3	375.0	372.8	370.6	363.8	348.1	339.1	307.6
70°	289.7	276.2	276.2	276.2	276.2	278.5	271.8	262.8	258.3	242.5	220.1
72.5°	193.1	197.6	193.1	193.1	188.7	190.9	181.9	177.4	172.9	164.0	150.5
75°	139.2	128.0	132.5	134.8	128.0	132.5	123.5	114.5	114.5	107.8	101.0
77.5°	89.8	87.6	89.8	92.1	89.8	87.6	83.1	78.6	78.6	76.4	69.6
80°	65.2	62.9	62.9	62.9	60.6	62.9	58.4	58.4	53.9	51.7	47.1
82.5°	42.7	42.7	40.4	42.7	40.4	42.7	36.0	36.0	36.0	33.6	29.2
85°	29.2	24.7	24.7	27.0	22.5	27.0	24.7	22.5	20.2	20.2	17.9
87.5°	13.5	15.7	13.5	15.7	13.5	13.5	15.7	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



TEST NUMBER: P248778

CATALOG NUMBER: LD8B80D010 ER8B80835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1
2.5°	4576.7	4578.9	4578.9	4588.0	4592.4	4594.6	4594.6	4612.6	4605.9	4610.4	4614.9
5°	4511.6	4525.0	4529.5	4529.5	4554.2	4563.2	4572.2	4592.4	4594.6	4608.1	4623.8
7.5°	4448.7	4464.4	4473.4	4493.6	4509.3	4525.0	4552.0	4565.5	4578.9	4596.9	4617.1
10°	4388.0	4406.1	4424.0	4439.7	4464.4	4484.6	4502.6	4534.0	4549.8	4574.5	4601.4
12.5°	4329.7	4354.4	4370.1	4397.0	4424.0	4441.9	4468.9	4498.1	4522.8	4547.5	4578.9
15°	4278.0	4307.2	4325.2	4354.4	4383.6	4408.3	4437.5	4473.4	4491.4	4520.6	4549.8
17.5°	4221.8	4253.4	4275.8	4302.7	4338.7	4365.6	4390.3	4426.2	4448.7	4480.1	4513.8
20°	4163.5	4194.9	4221.8	4248.8	4284.8	4311.7	4340.9	4376.8	4401.5	4433.0	4459.9
22.5°	4093.9	4123.1	4152.2	4183.7	4219.6	4242.1	4275.8	4307.2	4334.1	4363.3	4390.3
25°	4004.1	4040.0	4062.5	4091.6	4120.8	4145.5	4181.4	4212.9	4235.3	4262.3	4287.0
27.5°	3898.5	3925.5	3943.4	3968.1	3997.3	4019.8	4046.7	4078.2	4100.7	4125.3	4143.3
30°	3718.8	3743.6	3759.3	3777.2	3806.4	3826.7	3849.1	3878.3	3894.0	3912.0	3927.7
32.5°	3483.0	3503.3	3512.2	3525.7	3546.0	3566.1	3584.1	3608.8	3615.6	3626.7	3626.7
35°	3141.7	3146.2	3144.0	3148.5	3157.5	3168.6	3184.4	3200.1	3209.0	3209.0	3202.4
37.5°	2742.0	2715.1	2685.9	2663.4	2656.6	2652.1	2661.2	2667.8	2676.9	2681.3	2670.1
40°	2326.6	2265.9	2200.8	2142.3	2102.0	2084.0	2077.3	2081.7	2081.7	2097.4	2097.4
42.5°	1969.5	1875.1	1778.6	1691.0	1632.6	1587.7	1567.5	1567.5	1569.7	1581.0	1587.7
45°	1673.1	1554.0	1441.7	1345.2	1264.3	1205.9	1179.0	1172.2	1170.0	1174.5	1190.2
47.5°	1446.2	1322.7	1205.9	1086.9	1001.6	943.2	918.5	909.5	900.5	909.5	911.8
50°	1268.8	1140.8	1017.3	898.3	808.4	756.8	725.3	711.8	709.6	709.6	714.1
52.5°	1107.1	988.1	864.6	743.4	649.0	599.6	570.4	563.7	554.7	563.7	563.7
55°	954.4	835.4	714.1	599.6	521.0	469.4	442.4	433.4	428.9	435.6	435.6
57.5°	788.3	687.2	574.9	471.6	393.0	357.1	336.8	325.6	323.3	327.9	323.3
60°	646.8	561.4	464.9	370.6	309.9	271.8	256.0	251.5	247.0	251.5	251.5
62.5°	512.0	440.2	361.5	289.7	238.0	211.1	193.1	193.1	190.9	190.9	193.1
65°	379.5	323.3	267.2	206.6	166.2	146.0	132.5	132.5	130.2	132.5	130.2
67.5°	276.2	238.0	193.1	150.5	119.1	107.8	98.8	92.1	96.6	92.1	89.8
70°	202.2	170.6	139.2	114.5	92.1	80.9	74.1	71.8	67.4	67.4	67.4
72.5°	134.8	114.5	94.3	74.1	60.6	49.4	47.1	42.7	38.2	40.4	44.9
75°	89.8	76.4	67.4	53.9	40.4	40.4	27.0	27.0	22.5	27.0	20.2
77.5°	62.9	51.7	40.4	33.6	27.0	24.7	17.9	17.9	15.7	15.7	15.7
80°	44.9	38.2	29.2	24.7	17.9	17.9	15.7	13.5	11.2	11.2	13.5
82.5°	27.0	20.2	20.2	17.9	11.2	9.0	6.7	9.0	4.5	4.5	4.5
85°	15.7	13.5	11.2	6.7	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



TEST NUMBER: P248778

CATALOG NUMBER: LD8B80D010 ER8B80835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1
2.5°	4626.1	4623.8	4628.4	4628.4	4641.9	4639.5	4646.3	4646.3	4641.9	4644.1	4653.0
5°	4641.9	4648.6	4662.0	4673.3	4693.4	4702.5	4713.7	4725.0	4727.2	4733.9	4740.7
7.5°	4641.9	4664.3	4680.0	4700.2	4727.2	4742.9	4767.6	4787.8	4796.8	4808.0	4821.5
10°	4632.8	4655.3	4684.5	4706.9	4740.7	4765.3	4790.0	4821.5	4834.9	4852.9	4870.9
12.5°	4614.9	4639.5	4671.0	4700.2	4738.4	4760.8	4792.2	4821.5	4841.7	4866.4	4886.6
15°	4588.0	4617.1	4646.3	4675.5	4715.9	4742.9	4772.1	4805.7	4826.0	4852.9	4870.9
17.5°	4545.3	4576.7	4603.7	4630.6	4668.8	4700.2	4727.2	4758.6	4778.8	4801.3	4826.0
20°	4493.6	4522.8	4552.0	4574.5	4612.6	4639.5	4668.8	4698.0	4713.7	4718.2	4756.4
22.5°	4428.5	4448.7	4471.1	4507.1	4529.5	4554.2	4581.2	4608.1	4623.8	4648.6	4662.0
25°	4320.6	4340.9	4365.6	4381.3	4408.3	4428.5	4455.4	4484.6	4493.6	4511.6	4525.0
27.5°	4170.3	4181.4	4192.7	4206.1	4221.8	4233.1	4248.8	4262.3	4271.3	4280.3	4289.2
30°	3932.1	3932.1	3932.1	3923.2	3929.9	3936.7	3938.9	3936.7	3936.7	3934.5	3934.5
32.5°	3617.8	3599.8	3579.6	3561.7	3554.9	3546.0	3541.4	3534.7	3523.5	3516.7	3519.0
35°	3193.3	3152.9	3128.2	3105.8	3087.9	3074.4	3067.6	3060.9	3058.6	3049.7	3040.6
37.5°	2663.4	2634.2	2616.3	2602.8	2587.0	2573.5	2575.8	2578.1	2584.7	2580.3	2582.5
40°	2102.0	2095.2	2102.0	2086.2	2081.7	2086.2	2097.4	2113.2	2122.2	2131.2	2146.9
42.5°	1598.9	1610.1	1625.9	1625.9	1632.6	1641.6	1655.0	1679.8	1693.2	1708.9	1726.9
45°	1203.7	1217.2	1237.4	1244.1	1248.6	1259.8	1275.6	1295.7	1304.7	1318.2	1333.9
47.5°	927.5	936.4	947.6	958.9	970.1	974.6	990.3	990.3	1001.6	1010.6	1015.0
50°	723.1	732.1	741.0	747.8	752.3	759.1	763.5	770.3	772.5	777.0	779.2
52.5°	565.9	577.2	577.2	581.6	588.3	595.1	592.9	595.1	597.3	597.3	604.1
55°	442.4	442.4	449.1	449.1	453.7	451.4	453.7	453.7	453.7	453.7	455.9
57.5°	330.1	332.4	339.1	334.6	332.4	336.8	332.4	336.8	334.6	339.1	332.4
60°	253.7	253.7	256.0	256.0	258.3	258.3	258.3	256.0	256.0	253.7	253.7
62.5°	190.9	193.1	195.4	193.1	193.1	193.1	190.9	190.9	188.7	186.3	186.3
65°	128.0	125.8	130.2	125.8	128.0	128.0	125.8	128.0	121.3	123.5	121.3
67.5°	92.1	89.8	87.6	89.8	87.6	85.3	85.3	87.6	89.8	83.1	83.1
70°	60.6	62.9	60.6	62.9	65.2	65.2	62.9	60.6	62.9	58.4	60.6
72.5°	38.2	38.2	38.2	38.2	38.2	40.4	40.4	40.4	36.0	36.0	33.6
75°	17.9	24.7	20.2	17.9	24.7	24.7	22.5	22.5	20.2	20.2	20.2
77.5°	17.9	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	6.7	9.0	9.0	11.2	9.0	9.0	6.7	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: P248778

CATALOG NUMBER: LD8B80D010 ER8B80835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1
2.5°	4650.8	4648.6	4650.8	4653.0	4650.8	4648.6	4650.8	4653.0	4644.1	4641.9	4646.3
5°	4749.6	4749.6	4754.1	4756.4	4754.1	4749.6	4749.6	4740.7	4733.9	4727.2	4725.0
7.5°	4834.9	4839.5	4843.9	4846.1	4843.9	4839.5	4834.9	4821.5	4808.0	4796.8	4787.8
10°	4886.6	4893.4	4902.3	4906.8	4902.3	4893.4	4886.6	4870.9	4852.9	4834.9	4821.5
12.5°	4909.1	4915.8	4927.0	4924.8	4927.0	4915.8	4909.1	4886.6	4866.4	4841.7	4821.5
15°	4893.4	4902.3	4913.5	4918.0	4913.5	4902.3	4893.4	4870.9	4852.9	4826.0	4805.7
17.5°	4843.9	4857.4	4864.2	4870.9	4864.2	4857.4	4843.9	4826.0	4801.3	4778.8	4758.6
20°	4776.5	4785.6	4794.6	4796.8	4794.6	4785.6	4776.5	4756.4	4718.2	4713.7	4698.0
22.5°	4680.0	4686.8	4706.9	4700.2	4706.9	4686.8	4680.0	4662.0	4648.6	4623.8	4608.1
25°	4540.7	4547.5	4549.8	4552.0	4549.8	4547.5	4540.7	4525.0	4511.6	4493.6	4484.6
27.5°	4300.5	4300.5	4304.9	4307.2	4304.9	4300.5	4300.5	4289.2	4280.3	4271.3	4262.3
30°	3936.7	3936.7	3936.7	3948.0	3936.7	3936.7	3936.7	3934.5	3934.5	3936.7	3936.7
32.5°	3516.7	3512.2	3507.8	3512.2	3507.8	3512.2	3516.7	3519.0	3516.7	3523.5	3534.7
35°	3040.6	3038.4	3045.1	3036.2	3045.1	3038.4	3040.6	3040.6	3049.7	3058.6	3060.9
37.5°	2584.7	2580.3	2589.3	2580.3	2589.3	2580.3	2584.7	2582.5	2580.3	2584.7	2578.1
40°	2151.4	2155.8	2155.8	2173.9	2155.8	2155.8	2151.4	2146.9	2131.2	2122.2	2113.2
42.5°	1735.9	1749.4	1744.9	1758.4	1744.9	1749.4	1735.9	1726.9	1708.9	1693.2	1679.8
45°	1342.9	1351.9	1351.9	1356.4	1351.9	1351.9	1342.9	1333.9	1318.2	1304.7	1295.7
47.5°	1030.7	1030.7	1030.7	1033.0	1030.7	1030.7	1030.7	1015.0	1010.6	1001.6	990.3
50°	783.7	786.0	788.3	790.5	788.3	786.0	783.7	779.2	777.0	772.5	770.3
52.5°	601.8	604.1	599.6	604.1	599.6	604.1	601.8	604.1	597.3	597.3	595.1
55°	455.9	453.7	455.9	458.1	455.9	453.7	455.9	455.9	453.7	453.7	453.7
57.5°	334.6	330.1	330.1	330.1	330.1	330.1	334.6	332.4	339.1	334.6	336.8
60°	249.3	251.5	251.5	253.7	251.5	251.5	249.3	253.7	253.7	256.0	256.0
62.5°	184.1	190.9	186.3	190.9	186.3	190.9	184.1	186.3	186.3	188.7	190.9
65°	119.1	119.1	119.1	121.3	119.1	119.1	119.1	121.3	123.5	121.3	128.0
67.5°	80.9	83.1	87.6	85.3	87.6	83.1	80.9	83.1	83.1	89.8	87.6
70°	65.2	58.4	58.4	65.2	58.4	58.4	65.2	60.6	58.4	62.9	60.6
72.5°	38.2	33.6	38.2	38.2	38.2	33.6	38.2	33.6	36.0	36.0	40.4
75°	20.2	17.9	15.7	22.5	15.7	17.9	20.2	20.2	20.2	20.2	22.5
77.5°	13.5	11.2	15.7	15.7	15.7	11.2	13.5	11.2	13.5	11.2	13.5
80°	6.7	9.0	6.7	11.2	6.7	9.0	6.7	11.2	6.7	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: P248778

CATALOG NUMBER: LD8B80D010 ER8B80835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1
2.5°	4646.3	4639.5	4641.9	4628.4	4628.4	4623.8	4626.1	4614.9	4610.4	4605.9	4612.6
5°	4713.7	4702.5	4693.4	4673.3	4662.0	4648.6	4641.9	4623.8	4608.1	4594.6	4592.4
7.5°	4767.6	4742.9	4727.2	4700.2	4680.0	4664.3	4641.9	4617.1	4596.9	4578.9	4565.5
10°	4790.0	4765.3	4740.7	4706.9	4684.5	4655.3	4632.8	4601.4	4574.5	4549.8	4534.0
12.5°	4792.2	4760.8	4738.4	4700.2	4671.0	4639.5	4614.9	4578.9	4547.5	4522.8	4498.1
15°	4772.1	4742.9	4715.9	4675.5	4646.3	4617.1	4588.0	4549.8	4520.6	4491.4	4473.4
17.5°	4727.2	4700.2	4668.8	4630.6	4603.7	4576.7	4545.3	4513.8	4480.1	4448.7	4426.2
20°	4668.8	4639.5	4612.6	4574.5	4552.0	4522.8	4493.6	4459.9	4433.0	4401.5	4376.8
22.5°	4581.2	4554.2	4529.5	4507.1	4471.1	4448.7	4428.5	4390.3	4363.3	4334.1	4307.2
25°	4455.4	4428.5	4408.3	4381.3	4365.6	4340.9	4320.6	4287.0	4262.3	4235.3	4212.9
27.5°	4248.8	4233.1	4221.8	4206.1	4192.7	4181.4	4170.3	4143.3	4125.3	4100.7	4078.2
30°	3938.9	3936.7	3929.9	3923.2	3932.1	3932.1	3932.1	3927.7	3912.0	3894.0	3878.3
32.5°	3541.4	3546.0	3554.9	3561.7	3579.6	3599.8	3617.8	3626.7	3626.7	3615.6	3608.8
35°	3067.6	3074.4	3087.9	3105.8	3128.2	3152.9	3193.3	3202.4	3209.0	3209.0	3200.1
37.5°	2575.8	2573.5	2587.0	2602.8	2616.3	2634.2	2663.4	2670.1	2681.3	2676.9	2667.8
40°	2097.4	2086.2	2081.7	2086.2	2102.0	2095.2	2102.0	2097.4	2097.4	2081.7	2081.7
42.5°	1655.0	1641.6	1632.6	1625.9	1625.9	1610.1	1598.9	1587.7	1581.0	1569.7	1567.5
45°	1275.6	1259.8	1248.6	1244.1	1237.4	1217.2	1203.7	1190.2	1174.5	1170.0	1172.2
47.5°	990.3	974.6	970.1	958.9	947.6	936.4	927.5	911.8	909.5	900.5	909.5
50°	763.5	759.1	752.3	747.8	741.0	732.1	723.1	714.1	709.6	709.6	711.8
52.5°	592.9	595.1	588.3	581.6	577.2	577.2	565.9	563.7	563.7	554.7	563.7
55°	453.7	451.4	453.7	449.1	449.1	442.4	442.4	435.6	435.6	428.9	433.4
57.5°	332.4	336.8	332.4	334.6	339.1	332.4	330.1	323.3	327.9	323.3	325.6
60°	258.3	258.3	258.3	256.0	256.0	253.7	253.7	251.5	251.5	247.0	251.5
62.5°	190.9	193.1	193.1	193.1	195.4	193.1	190.9	193.1	190.9	190.9	193.1
65°	125.8	128.0	128.0	125.8	130.2	125.8	128.0	130.2	132.5	130.2	132.5
67.5°	85.3	85.3	87.6	89.8	87.6	89.8	92.1	89.8	92.1	96.6	92.1
70°	62.9	65.2	65.2	62.9	60.6	62.9	60.6	67.4	67.4	67.4	71.8
72.5°	40.4	40.4	38.2	38.2	38.2	38.2	38.2	44.9	40.4	38.2	42.7
75°	22.5	24.7	24.7	17.9	20.2	24.7	17.9	20.2	27.0	22.5	27.0
77.5°	13.5	13.5	13.5	13.5	13.5	13.5	17.9	15.7	15.7	15.7	17.9
80°	11.2	9.0	9.0	6.7	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: P248778

CATALOG NUMBER: LD8B80D010 ER8B80835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1
2.5°	4594.6	4594.6	4592.4	4588.0	4578.9	4578.9	4576.7	4569.9	4565.5	4563.2	4563.2
5°	4572.2	4563.2	4554.2	4529.5	4529.5	4525.0	4511.6	4502.6	4498.1	4486.8	4482.4
7.5°	4552.0	4525.0	4509.3	4493.6	4473.4	4464.4	4448.7	4441.9	4426.2	4415.0	4408.3
10°	4502.6	4484.6	4464.4	4439.7	4424.0	4406.1	4388.0	4374.6	4354.4	4343.1	4334.1
12.5°	4468.9	4441.9	4424.0	4397.0	4370.1	4354.4	4329.7	4314.0	4293.7	4271.3	4257.8
15°	4437.5	4408.3	4383.6	4354.4	4325.2	4307.2	4278.0	4260.1	4230.9	4208.4	4192.7
17.5°	4390.3	4365.6	4338.7	4302.7	4275.8	4253.4	4221.8	4199.5	4172.5	4143.3	4127.6
20°	4340.9	4311.7	4284.8	4248.8	4221.8	4194.9	4163.5	4138.8	4107.3	4080.4	4062.5
22.5°	4275.8	4242.1	4219.6	4183.7	4152.2	4123.1	4093.9	4064.7	4035.5	4013.0	3992.8
25°	4181.4	4145.5	4120.8	4091.6	4062.5	4040.0	4004.1	3986.1	3956.9	3936.7	3916.4
27.5°	4046.7	4019.8	3997.3	3968.1	3943.4	3925.5	3898.5	3880.6	3855.8	3837.9	3822.1
30°	3849.1	3826.7	3806.4	3777.2	3759.3	3743.6	3718.8	3703.1	3685.2	3664.9	3660.5
32.5°	3584.1	3566.1	3546.0	3525.7	3512.2	3503.3	3483.0	3474.0	3456.1	3444.8	3433.6
35°	3184.4	3168.6	3157.5	3148.5	3144.0	3146.2	3141.7	3150.7	3155.1	3152.9	3155.1
37.5°	2661.2	2652.1	2656.6	2663.4	2685.9	2715.1	2742.0	2782.4	2809.3	2836.3	2861.0
40°	2077.3	2084.0	2102.0	2142.3	2200.8	2265.9	2326.6	2402.9	2479.3	2533.2	2582.5
42.5°	1567.5	1587.7	1632.6	1691.0	1778.6	1875.1	1969.5	2081.7	2173.9	2263.6	2326.6
45°	1179.0	1205.9	1264.3	1345.2	1441.7	1554.0	1673.1	1798.8	1908.9	2000.9	2070.5
47.5°	918.5	943.2	1001.6	1086.9	1205.9	1322.7	1446.2	1576.5	1691.0	1780.8	1841.5
50°	725.3	756.8	808.4	898.3	1017.3	1140.8	1268.8	1396.8	1504.6	1581.0	1634.9
52.5°	570.4	599.6	649.0	743.4	864.6	988.1	1107.1	1232.9	1327.2	1401.3	1437.3
55°	442.4	469.4	521.0	599.6	714.1	835.4	954.4	1062.3	1149.8	1203.7	1237.4
57.5°	336.8	357.1	393.0	471.6	574.9	687.2	788.3	896.1	963.4	1001.6	1024.0
60°	256.0	271.8	309.9	370.6	464.9	561.4	646.8	727.6	781.5	813.0	835.4
62.5°	193.1	211.1	238.0	289.7	361.5	440.2	512.0	572.6	617.6	637.8	653.5
65°	132.5	146.0	166.2	206.6	267.2	323.3	379.5	424.5	453.7	476.1	485.1
67.5°	98.8	107.8	119.1	150.5	193.1	238.0	276.2	307.6	339.1	348.1	363.8
70°	74.1	80.9	92.1	114.5	139.2	170.6	202.2	220.1	242.5	258.3	262.8
72.5°	47.1	49.4	60.6	74.1	94.3	114.5	134.8	150.5	164.0	172.9	177.4
75°	27.0	40.4	40.4	53.9	67.4	76.4	89.8	101.0	107.8	114.5	114.5
77.5°	17.9	24.7	27.0	33.6	40.4	51.7	62.9	69.6	76.4	78.6	78.6
80°	15.7	17.9	17.9	24.7	29.2	38.2	44.9	47.1	51.7	53.9	58.4
82.5°	6.7	9.0	11.2	17.9	20.2	20.2	27.0	29.2	33.6	36.0	36.0
85°	2.2	4.5	4.5	6.7	11.2	13.5	15.7	17.9	20.2	20.2	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: P248778

CATALOG NUMBER: LD8B80D010 ER8B80835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1	4599.1
2.5°	4558.8	4561.0	4552.0	4549.8	4545.3	4547.5	4552.0
5°	4475.7	4477.9	4468.9	4459.9	4459.9	4457.6	4459.9
7.5°	4397.0	4399.3	4385.8	4381.3	4372.3	4374.6	4374.6
10°	4318.4	4318.4	4298.3	4296.0	4289.2	4287.0	4287.0
12.5°	4242.1	4235.3	4219.6	4210.6	4215.2	4201.7	4201.7
15°	4174.7	4163.5	4143.3	4136.5	4125.3	4120.8	4120.8
17.5°	4105.1	4096.1	4078.2	4064.7	4051.2	4049.0	4051.2
20°	4037.7	4028.7	4006.3	3997.3	3986.1	3986.1	3981.6
22.5°	3970.3	3961.4	3941.2	3934.5	3918.7	3918.7	3921.0
25°	3900.7	3894.0	3871.5	3867.1	3864.9	3855.8	3860.3
27.5°	3806.4	3801.9	3784.0	3777.2	3768.3	3766.0	3770.5
30°	3633.5	3626.7	3613.3	3606.6	3590.9	3593.1	3597.5
32.5°	3417.9	3409.0	3390.9	3384.2	3370.8	3366.3	3368.5
35°	3148.5	3141.7	3126.0	3126.0	3112.5	3108.0	3112.5
37.5°	2874.5	2881.2	2874.5	2881.2	2874.5	2872.2	2874.5
40°	2616.3	2640.9	2645.4	2670.1	2661.2	2674.6	2672.4
42.5°	2369.2	2409.6	2425.4	2445.5	2441.1	2450.1	2456.8
45°	2119.9	2153.6	2169.3	2182.8	2185.0	2189.6	2191.8
47.5°	1884.1	1911.1	1913.3	1929.0	1926.8	1926.8	1933.5
50°	1664.1	1682.0	1686.5	1697.7	1688.8	1684.2	1686.5
52.5°	1459.7	1477.7	1473.1	1477.7	1466.5	1461.9	1464.2
55°	1250.8	1259.8	1259.8	1259.8	1246.4	1246.4	1246.4
57.5°	1037.5	1039.8	1035.3	1037.5	1035.3	1021.8	1019.5
60°	842.2	842.2	839.9	842.2	835.4	828.7	828.7
62.5°	657.9	662.5	671.4	662.5	657.9	662.5	655.7
65°	491.8	500.8	498.5	503.0	500.8	500.8	496.3
67.5°	370.6	372.8	375.0	377.3	377.3	377.3	377.3
70°	271.8	278.5	276.2	276.2	276.2	276.2	289.7
72.5°	181.9	190.9	188.7	193.1	193.1	197.6	193.1
75°	123.5	132.5	128.0	134.8	132.5	128.0	139.2
77.5°	83.1	87.6	89.8	92.1	89.8	87.6	89.8
80°	58.4	62.9	60.6	62.9	62.9	62.9	65.2
82.5°	36.0	42.7	40.4	42.7	40.4	42.7	42.7
85°	24.7	27.0	22.5	27.0	24.7	24.7	29.2
87.5°	15.7	13.5	13.5	15.7	13.5	15.7	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)