

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: P248687

Luminaire Tested: **LD8B70D010 ER8B70850 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248687
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: LD8B70D010 ER8B70850 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7560.0 lumens
Efficiency: N/A
Efficacy: 99.6 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

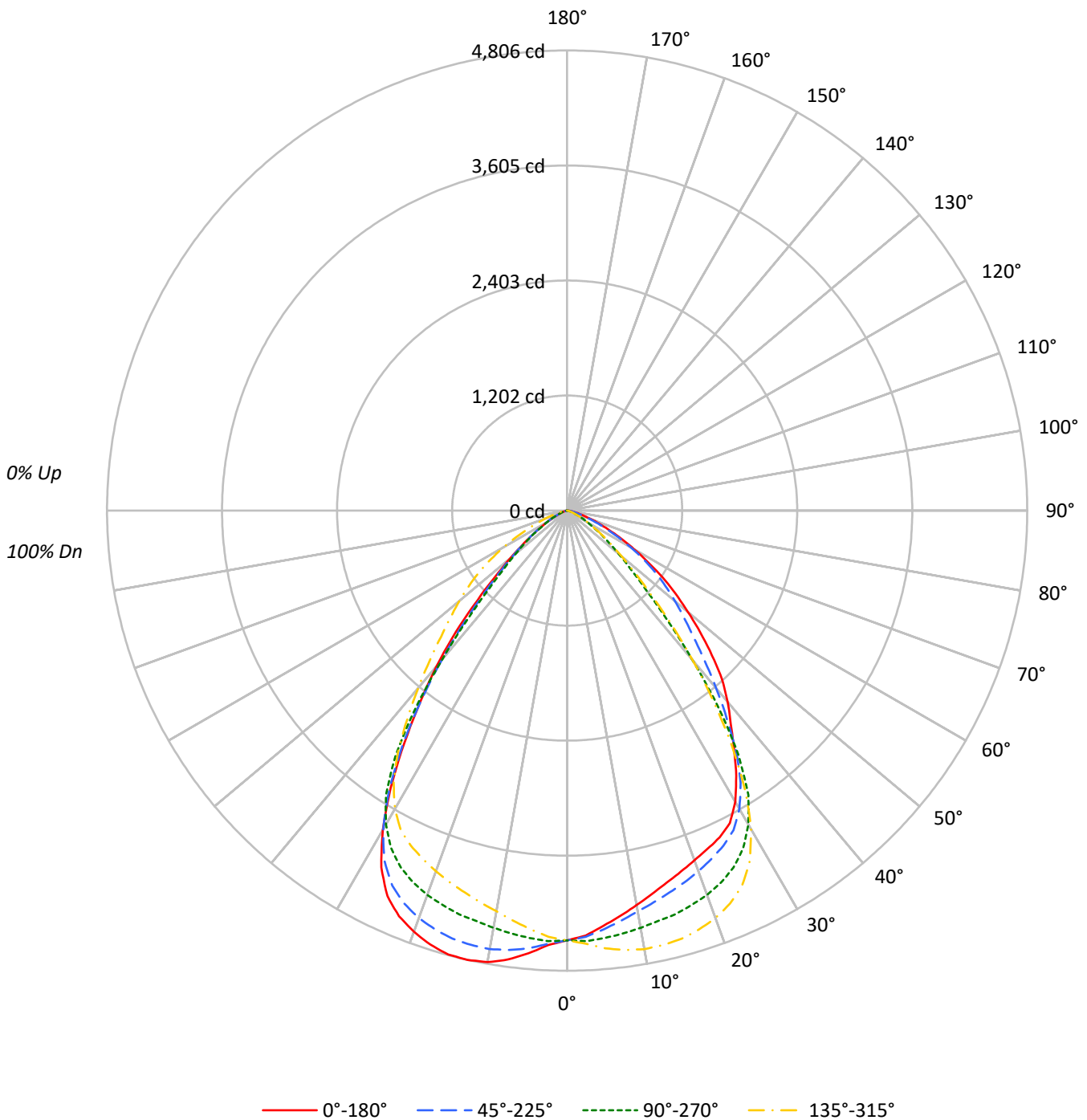
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	138396	138396	138396	138396
5°	134722	138721	143677	138721
10°	130994	138540	149931	138540
15°	128376	139365	153213	139365
20°	127504	140161	153609	140161
25°	128172	139880	151138	139880
30°	125004	134757	137182	134757
35°	114340	117555	111536	117555
40°	104978	81776	85395	81776
45°	93276	49889	57721	49889
50°	78954	33327	37006	33327
55°	65390	22741	24031	22741
60°	49875	15134	15270	15134
65°	35337	9434	8632	9434
70°	25488	6320	5734	6320
75°	16180	3133	2609	3133
80°	11294	2344	1936	2344
85°	10084	0	778	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.2	5.7
10°-20°	1237.0	16.4
20°-30°	1873.2	24.8
30°-40°	1877.4	24.8
40°-50°	1178.9	15.6
50°-60°	628.2	8.3
60°-70°	258.3	3.4
70°-80°	68.3	0.9
80°-90°	11.5	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°	3537.4	46.8
0°-40°	5414.8	71.6
0°-60°	7221.9	95.5
0°-90°	7560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7560.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4488	4488	4488	4488	4488	
5°	4352	4482	4642	4482	4352	410
15°	4021	4366	4799	4366	4021	1137
25°	3767	4111	4442	4111	3767	1728
35°	3037	3123	2963	3123	3037	1903
45°	2139	1144	1324	1144	2139	1645
55°	1216	423	447	423	1216	1084
65°	484	129	118	129	484	502
75°	136	26	22	26	136	154
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°	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1
2.5°	4442.1	4437.7	4435.5	4440.0	4442.1	4450.9	4448.7	4453.0	4453.0	4455.3	4459.6
5°	4352.3	4350.0	4352.3	4352.3	4361.0	4369.8	4367.6	4374.2	4378.5	4389.5	4393.9
7.5°	4269.0	4269.0	4266.8	4275.5	4279.9	4293.1	4290.9	4301.9	4308.4	4319.4	4334.7
10°	4183.5	4183.5	4185.7	4192.3	4194.5	4214.2	4214.2	4229.5	4238.3	4249.3	4269.0
12.5°	4100.3	4100.3	4113.4	4109.0	4117.8	4133.1	4139.7	4155.0	4168.2	4190.1	4209.9
15°	4021.3	4021.3	4025.8	4036.7	4043.3	4063.0	4073.9	4091.5	4106.8	4128.8	4157.3
17.5°	3953.4	3951.2	3953.4	3966.6	3979.7	3997.2	4006.0	4027.9	4043.3	4071.8	4098.1
20°	3885.5	3889.9	3889.9	3900.8	3909.6	3931.5	3940.2	3964.4	3981.9	4008.2	4038.9
22.5°	3826.3	3824.1	3824.1	3839.5	3846.1	3865.7	3874.5	3896.4	3916.2	3938.1	3966.6
25°	3767.1	3762.7	3771.6	3773.7	3778.1	3800.0	3806.6	3821.9	3841.6	3861.4	3889.9
27.5°	3679.5	3675.1	3677.3	3686.0	3692.6	3710.1	3714.6	3729.9	3745.2	3762.7	3786.9
30°	3510.7	3506.4	3504.2	3519.5	3526.1	3539.2	3545.8	3572.1	3576.5	3596.2	3613.7
32.5°	3287.2	3285.0	3289.4	3302.5	3309.1	3326.7	3335.4	3350.8	3361.7	3372.7	3390.2
35°	3037.4	3033.0	3037.4	3050.6	3050.6	3065.9	3072.5	3079.0	3076.8	3079.0	3074.7
37.5°	2805.1	2802.9	2805.1	2811.6	2805.1	2811.6	2805.1	2792.0	2767.9	2741.5	2715.2
40°	2607.9	2610.0	2596.9	2605.7	2581.5	2577.2	2553.1	2520.2	2472.0	2419.4	2344.9
42.5°	2397.5	2390.9	2382.2	2386.5	2366.8	2351.4	2312.0	2270.4	2209.0	2121.4	2031.5
45°	2138.9	2136.7	2132.3	2130.1	2117.0	2101.6	2068.7	2020.5	1952.6	1862.8	1755.3
47.5°	1886.9	1880.3	1880.3	1882.4	1867.1	1864.9	1838.6	1797.0	1737.8	1650.2	1538.4
50°	1645.8	1643.6	1648.0	1656.8	1645.8	1641.4	1623.9	1595.4	1542.8	1468.3	1363.1
52.5°	1428.8	1426.6	1431.1	1442.0	1437.6	1442.0	1424.5	1402.6	1367.5	1295.1	1203.1
55°	1216.3	1216.3	1216.3	1229.4	1229.4	1229.4	1220.6	1207.5	1174.6	1122.0	1036.6
57.5°	994.9	997.1	1010.3	1012.4	1010.3	1014.7	1012.4	999.3	977.4	940.2	874.4
60°	808.7	808.7	815.3	821.8	819.6	821.8	821.8	815.3	793.3	762.7	710.1
62.5°	639.9	646.5	642.1	646.5	655.2	646.5	642.1	637.7	622.4	602.6	558.8
65°	484.3	488.7	488.7	490.9	486.5	488.7	480.0	473.4	464.6	442.7	414.2
67.5°	368.2	368.2	368.2	368.2	366.0	363.8	361.6	355.0	339.7	331.0	300.2
70°	282.7	269.5	269.5	269.5	269.5	271.8	265.2	256.4	252.0	236.7	214.8
72.5°	188.4	192.9	188.4	188.4	184.1	186.3	177.5	173.1	168.8	160.0	146.9
75°	135.8	124.9	129.3	131.5	124.9	129.3	120.5	111.8	111.8	105.2	98.6
77.5°	87.7	85.5	87.7	89.8	87.7	85.5	81.1	76.7	76.7	74.5	67.9
80°	63.6	61.3	61.3	61.3	59.2	61.3	57.0	57.0	52.6	50.4	46.0
82.5°	41.7	41.7	39.4	41.7	39.4	41.7	35.1	35.1	35.1	32.8	28.5
85°	28.5	24.1	24.1	26.3	21.9	26.3	24.1	21.9	19.8	19.8	17.5
87.5°	13.2	15.3	13.2	15.3	13.2	13.2	15.3	13.2	13.2	8.7	8.7
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°	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1
2.5°	4466.2	4468.4	4468.4	4477.2	4481.5	4483.7	4483.7	4501.3	4494.7	4499.1	4503.5
5°	4402.7	4415.8	4420.2	4420.2	4444.3	4453.0	4461.8	4481.5	4483.7	4496.9	4512.2
7.5°	4341.3	4356.6	4365.5	4385.1	4400.5	4415.8	4442.1	4455.3	4468.4	4486.0	4505.6
10°	4282.1	4299.7	4317.2	4332.5	4356.6	4376.4	4393.9	4424.5	4440.0	4464.0	4490.3
12.5°	4225.2	4249.3	4264.6	4290.9	4317.2	4334.7	4361.0	4389.5	4413.6	4437.7	4468.4
15°	4174.8	4203.3	4220.8	4249.3	4277.8	4301.9	4330.4	4365.5	4383.0	4411.5	4440.0
17.5°	4119.9	4150.7	4172.6	4198.9	4233.9	4260.2	4284.4	4319.4	4341.3	4372.0	4404.9
20°	4063.0	4093.7	4119.9	4146.3	4181.4	4207.6	4236.1	4271.2	4295.3	4325.9	4352.3
22.5°	3995.1	4023.6	4052.0	4082.7	4117.8	4139.7	4172.6	4203.3	4229.5	4258.0	4284.4
25°	3907.4	3942.5	3964.4	3992.8	4021.3	4045.4	4080.5	4111.2	4133.1	4159.4	4183.5
27.5°	3804.4	3830.7	3848.2	3872.3	3900.8	3922.7	3949.0	3979.7	4001.7	4025.8	4043.3
30°	3629.0	3653.2	3668.5	3686.0	3714.6	3734.3	3756.2	3784.6	3800.0	3817.6	3832.9
32.5°	3398.9	3418.7	3427.4	3440.6	3460.4	3480.0	3497.6	3521.7	3528.3	3539.2	3539.2
35°	3065.9	3070.2	3068.1	3072.5	3081.2	3092.2	3107.5	3122.8	3131.6	3131.6	3125.1
37.5°	2675.8	2649.5	2621.0	2599.1	2592.5	2588.1	2596.9	2603.4	2612.3	2616.6	2605.7
40°	2270.4	2211.2	2147.6	2090.6	2051.2	2033.7	2027.1	2031.5	2031.5	2046.8	2046.8
42.5°	1922.0	1829.9	1735.7	1650.2	1593.2	1549.4	1529.7	1529.7	1531.8	1542.8	1549.4
45°	1632.7	1516.5	1406.9	1312.7	1233.8	1176.8	1150.5	1144.0	1141.8	1146.1	1161.5
47.5°	1411.3	1290.8	1176.8	1060.7	977.4	920.4	896.3	887.5	878.8	887.5	889.8
50°	1238.2	1113.3	992.8	876.6	788.9	738.5	707.8	694.7	692.5	692.5	696.9
52.5°	1080.4	964.3	843.8	725.4	633.3	585.1	556.6	550.1	541.3	550.1	550.1
55°	931.3	815.3	696.9	585.1	508.4	458.1	431.7	423.0	418.5	425.1	425.1
57.5°	769.2	670.6	561.1	460.2	383.5	348.5	328.7	317.8	315.5	319.9	315.5
60°	631.1	547.9	453.6	361.6	302.5	265.2	249.9	245.4	241.0	245.4	245.4
62.5°	499.6	429.5	352.8	282.7	232.3	206.0	188.4	188.4	186.3	186.3	188.4
65°	370.4	315.5	260.8	201.6	162.2	142.4	129.3	129.3	127.1	129.3	127.1
67.5°	269.5	232.3	188.4	146.9	116.2	105.2	96.4	89.8	94.3	89.8	87.7
70°	197.3	166.5	135.8	111.8	89.8	78.9	72.3	70.1	65.8	65.8	65.8
72.5°	131.5	111.8	92.0	72.3	59.2	48.2	46.0	41.7	37.3	39.4	43.8
75°	87.7	74.5	65.8	52.6	39.4	39.4	26.3	26.3	21.9	26.3	19.8
77.5°	61.3	50.4	39.4	32.8	26.3	24.1	17.5	17.5	15.3	15.3	15.3
80°	43.8	37.3	28.5	24.1	17.5	17.5	15.3	13.2	10.9	10.9	13.2
82.5°	26.3	19.8	19.8	17.5	10.9	8.7	6.6	8.7	4.4	4.4	4.4
85°	15.3	13.2	10.9	6.6	4.4	4.4	2.2	0.0	2.2	2.2	0.0
87.5°	8.7	4.4	4.4	2.2	0.0	2.2	2.2	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1
2.5°	4514.5	4512.2	4516.6	4516.6	4529.8	4527.6	4534.1	4534.1	4529.8	4532.0	4540.7
5°	4529.8	4536.4	4549.5	4560.5	4580.1	4589.0	4599.9	4610.9	4613.1	4619.6	4626.2
7.5°	4529.8	4551.7	4567.1	4586.7	4613.1	4628.4	4652.5	4672.2	4681.0	4691.9	4705.1
10°	4521.0	4542.9	4571.4	4593.3	4626.2	4650.3	4674.4	4705.1	4718.2	4735.7	4753.3
12.5°	4503.5	4527.6	4558.2	4586.7	4624.0	4645.9	4676.6	4705.1	4724.8	4748.9	4768.7
15°	4477.2	4505.6	4534.1	4562.6	4602.1	4628.4	4656.9	4689.7	4709.5	4735.7	4753.3
17.5°	4435.5	4466.2	4492.6	4518.8	4556.1	4586.7	4613.1	4643.7	4663.5	4685.4	4709.5
20°	4385.1	4413.6	4442.1	4464.0	4501.3	4527.6	4556.1	4584.6	4599.9	4604.3	4641.6
22.5°	4321.6	4341.3	4363.2	4398.3	4420.2	4444.3	4470.6	4496.9	4512.2	4536.4	4549.5
25°	4216.4	4236.1	4260.2	4275.5	4301.9	4321.6	4347.9	4376.4	4385.1	4402.7	4415.8
27.5°	4069.6	4080.5	4091.5	4104.6	4119.9	4130.9	4146.3	4159.4	4168.2	4176.9	4185.7
30°	3837.2	3837.2	3837.2	3828.5	3835.1	3841.6	3843.8	3841.6	3841.6	3839.5	3839.5
32.5°	3530.4	3512.9	3493.2	3475.7	3469.1	3460.4	3455.9	3449.4	3438.4	3431.9	3434.0
35°	3116.2	3076.8	3052.7	3030.8	3013.3	3000.1	2993.6	2987.0	2984.8	2976.1	2967.2
37.5°	2599.1	2570.6	2553.1	2539.9	2524.6	2511.4	2513.6	2515.8	2522.3	2518.0	2520.2
40°	2051.2	2044.6	2051.2	2035.9	2031.5	2035.9	2046.8	2062.2	2071.0	2079.7	2095.1
42.5°	1560.3	1571.2	1586.7	1586.7	1593.2	1602.0	1615.1	1639.3	1652.3	1667.7	1685.3
45°	1174.6	1187.8	1207.5	1214.0	1218.5	1229.4	1244.8	1264.5	1273.2	1286.4	1301.7
47.5°	905.1	913.8	924.8	935.8	946.7	951.1	966.4	966.4	977.4	986.2	990.5
50°	705.7	714.4	723.2	729.7	734.2	740.7	745.1	751.7	753.8	758.2	760.4
52.5°	552.2	563.2	563.2	567.6	574.1	580.7	578.6	580.7	582.9	582.9	589.5
55°	431.7	431.7	438.3	438.3	442.7	440.5	442.7	442.7	442.7	442.7	444.9
57.5°	322.1	324.4	331.0	326.5	324.4	328.7	324.4	328.7	326.5	331.0	324.4
60°	247.6	247.6	249.9	249.9	252.0	252.0	252.0	249.9	249.9	247.6	247.6
62.5°	186.3	188.4	190.7	188.4	188.4	188.4	186.3	186.3	184.1	181.8	181.8
65°	124.9	122.8	127.1	122.8	124.9	124.9	122.8	124.9	118.3	120.5	118.3
67.5°	89.8	87.7	85.5	87.7	85.5	83.3	83.3	85.5	87.7	81.1	81.1
70°	59.2	61.3	59.2	61.3	63.6	63.6	61.3	59.2	61.3	57.0	59.2
72.5°	37.3	37.3	37.3	37.3	37.3	39.4	39.4	39.4	35.1	35.1	32.8
75°	17.5	24.1	19.8	17.5	24.1	24.1	21.9	21.9	19.8	19.8	19.8
77.5°	17.5	13.2	13.2	13.2	13.2	13.2	13.2	13.2	10.9	13.2	10.9
80°	8.7	8.7	8.7	6.6	8.7	8.7	10.9	8.7	8.7	6.6	10.9
82.5°	4.4	4.4	4.4	0.0	2.2	4.4	4.4	2.2	4.4	4.4	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: P248687

CATALOG NUMBER: LD8B70D010 ER8B70850 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1
2.5°	4538.6	4536.4	4538.6	4540.7	4538.6	4536.4	4538.6	4540.7	4532.0	4529.8	4534.1
5°	4635.0	4635.0	4639.3	4641.6	4639.3	4635.0	4635.0	4626.2	4619.6	4613.1	4610.9
7.5°	4718.2	4722.7	4727.0	4729.2	4727.0	4722.7	4718.2	4705.1	4691.9	4681.0	4672.2
10°	4768.7	4775.2	4784.0	4788.3	4784.0	4775.2	4768.7	4753.3	4735.7	4718.2	4705.1
12.5°	4790.6	4797.2	4808.1	4805.9	4808.1	4797.2	4790.6	4768.7	4748.9	4724.8	4705.1
15°	4775.2	4784.0	4794.9	4799.3	4794.9	4784.0	4775.2	4753.3	4735.7	4709.5	4689.7
17.5°	4727.0	4740.2	4746.7	4753.3	4746.7	4740.2	4727.0	4709.5	4685.4	4663.5	4643.7
20°	4661.2	4670.1	4678.8	4681.0	4678.8	4670.1	4661.2	4641.6	4604.3	4599.9	4584.6
22.5°	4567.1	4573.6	4593.3	4586.7	4593.3	4573.6	4567.1	4549.5	4536.4	4512.2	4496.9
25°	4431.1	4437.7	4440.0	4442.1	4440.0	4437.7	4431.1	4415.8	4402.7	4385.1	4376.4
27.5°	4196.7	4196.7	4201.0	4203.3	4201.0	4196.7	4196.7	4185.7	4176.9	4168.2	4159.4
30°	3841.6	3841.6	3841.6	3852.7	3841.6	3841.6	3841.6	3839.5	3839.5	3841.6	3841.6
32.5°	3431.9	3427.4	3423.1	3427.4	3423.1	3427.4	3431.9	3434.0	3431.9	3438.4	3449.4
35°	2967.2	2965.1	2971.6	2962.9	2971.6	2965.1	2967.2	2967.2	2976.1	2984.8	2987.0
37.5°	2522.3	2518.0	2526.8	2518.0	2526.8	2518.0	2522.3	2520.2	2518.0	2522.3	2515.8
40°	2099.5	2103.8	2103.8	2121.4	2103.8	2103.8	2099.5	2095.1	2079.7	2071.0	2062.2
42.5°	1694.0	1707.2	1702.8	1715.9	1702.8	1707.2	1694.0	1685.3	1667.7	1652.3	1639.3
45°	1310.5	1319.3	1319.3	1323.6	1319.3	1319.3	1310.5	1301.7	1286.4	1273.2	1264.5
47.5°	1005.9	1005.9	1005.9	1008.1	1005.9	1005.9	1005.9	990.5	986.2	977.4	966.4
50°	764.8	767.0	769.2	771.4	769.2	767.0	764.8	760.4	758.2	753.8	751.7
52.5°	587.3	589.5	585.1	589.5	585.1	589.5	587.3	589.5	582.9	582.9	580.7
55°	444.9	442.7	444.9	447.0	444.9	442.7	444.9	444.9	442.7	442.7	442.7
57.5°	326.5	322.1	322.1	322.1	322.1	322.1	326.5	324.4	331.0	326.5	328.7
60°	243.3	245.4	245.4	247.6	245.4	245.4	243.3	247.6	247.6	249.9	249.9
62.5°	179.7	186.3	181.8	186.3	181.8	186.3	179.7	181.8	181.8	184.1	186.3
65°	116.2	116.2	116.2	118.3	116.2	116.2	116.2	118.3	120.5	118.3	124.9
67.5°	78.9	81.1	85.5	83.3	85.5	81.1	78.9	81.1	81.1	87.7	85.5
70°	63.6	57.0	57.0	63.6	57.0	57.0	63.6	59.2	57.0	61.3	59.2
72.5°	37.3	32.8	37.3	37.3	37.3	32.8	37.3	32.8	35.1	35.1	39.4
75°	19.8	17.5	15.3	21.9	15.3	17.5	19.8	19.8	19.8	19.8	21.9
77.5°	13.2	10.9	15.3	15.3	15.3	10.9	13.2	10.9	13.2	10.9	13.2
80°	6.6	8.7	6.6	10.9	6.6	8.7	6.6	10.9	6.6	8.7	8.7
82.5°	2.2	4.4	4.4	4.4	4.4	4.4	2.2	2.2	4.4	4.4	2.2
85°	0.0	4.4	2.2	2.2	2.2	4.4	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: P248687

CATALOG NUMBER: LD8B70D010 ER8B70850 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1
2.5°	4534.1	4527.6	4529.8	4516.6	4516.6	4512.2	4514.5	4503.5	4499.1	4494.7	4501.3
5°	4599.9	4589.0	4580.1	4560.5	4549.5	4536.4	4529.8	4512.2	4496.9	4483.7	4481.5
7.5°	4652.5	4628.4	4613.1	4586.7	4567.1	4551.7	4529.8	4505.6	4486.0	4468.4	4455.3
10°	4674.4	4650.3	4626.2	4593.3	4571.4	4542.9	4521.0	4490.3	4464.0	4440.0	4424.5
12.5°	4676.6	4645.9	4624.0	4586.7	4558.2	4527.6	4503.5	4468.4	4437.7	4413.6	4389.5
15°	4656.9	4628.4	4602.1	4562.6	4534.1	4505.6	4477.2	4440.0	4411.5	4383.0	4365.5
17.5°	4613.1	4586.7	4556.1	4518.8	4492.6	4466.2	4435.5	4404.9	4372.0	4341.3	4319.4
20°	4556.1	4527.6	4501.3	4464.0	4442.1	4413.6	4385.1	4352.3	4325.9	4295.3	4271.2
22.5°	4470.6	4444.3	4420.2	4398.3	4363.2	4341.3	4321.6	4284.4	4258.0	4229.5	4203.3
25°	4347.9	4321.6	4301.9	4275.5	4260.2	4236.1	4216.4	4183.5	4159.4	4133.1	4111.2
27.5°	4146.3	4130.9	4119.9	4104.6	4091.5	4080.5	4069.6	4043.3	4025.8	4001.7	3979.7
30°	3843.8	3841.6	3835.1	3828.5	3837.2	3837.2	3837.2	3832.9	3817.6	3800.0	3784.6
32.5°	3455.9	3460.4	3469.1	3475.7	3493.2	3512.9	3530.4	3539.2	3539.2	3528.3	3521.7
35°	2993.6	3000.1	3013.3	3030.8	3052.7	3076.8	3116.2	3125.1	3131.6	3131.6	3122.8
37.5°	2513.6	2511.4	2524.6	2539.9	2553.1	2570.6	2599.1	2605.7	2616.6	2612.3	2603.4
40°	2046.8	2035.9	2031.5	2035.9	2051.2	2044.6	2051.2	2046.8	2046.8	2031.5	2031.5
42.5°	1615.1	1602.0	1593.2	1586.7	1586.7	1571.2	1560.3	1549.4	1542.8	1531.8	1529.7
45°	1244.8	1229.4	1218.5	1214.0	1207.5	1187.8	1174.6	1161.5	1146.1	1141.8	1144.0
47.5°	966.4	951.1	946.7	935.8	924.8	913.8	905.1	889.8	887.5	878.8	887.5
50°	745.1	740.7	734.2	729.7	723.2	714.4	705.7	696.9	692.5	692.5	694.7
52.5°	578.6	580.7	574.1	567.6	563.2	563.2	552.2	550.1	550.1	541.3	550.1
55°	442.7	440.5	442.7	438.3	438.3	431.7	431.7	425.1	425.1	418.5	423.0
57.5°	324.4	328.7	324.4	326.5	331.0	324.4	322.1	315.5	319.9	315.5	317.8
60°	252.0	252.0	252.0	249.9	249.9	247.6	247.6	245.4	245.4	241.0	245.4
62.5°	186.3	188.4	188.4	188.4	190.7	188.4	186.3	188.4	186.3	186.3	188.4
65°	122.8	124.9	124.9	122.8	127.1	122.8	124.9	127.1	129.3	127.1	129.3
67.5°	83.3	83.3	85.5	87.7	85.5	87.7	89.8	87.7	89.8	94.3	89.8
70°	61.3	63.6	63.6	61.3	59.2	61.3	59.2	65.8	65.8	65.8	70.1
72.5°	39.4	39.4	37.3	37.3	37.3	37.3	37.3	43.8	39.4	37.3	41.7
75°	21.9	24.1	24.1	17.5	19.8	24.1	17.5	19.8	26.3	21.9	26.3
77.5°	13.2	13.2	13.2	13.2	13.2	13.2	17.5	15.3	15.3	15.3	17.5
80°	10.9	8.7	8.7	6.6	8.7	8.7	8.7	13.2	10.9	10.9	13.2
82.5°	4.4	4.4	2.2	0.0	4.4	4.4	4.4	4.4	4.4	4.4	8.7
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	4.4	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: P248687

CATALOG NUMBER: LD8B70D010 ER8B70850 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1
2.5°	4483.7	4483.7	4481.5	4477.2	4468.4	4468.4	4466.2	4459.6	4455.3	4453.0	4453.0
5°	4461.8	4453.0	4444.3	4420.2	4420.2	4415.8	4402.7	4393.9	4389.5	4378.5	4374.2
7.5°	4442.1	4415.8	4400.5	4385.1	4365.5	4356.6	4341.3	4334.7	4319.4	4308.4	4301.9
10°	4393.9	4376.4	4356.6	4332.5	4317.2	4299.7	4282.1	4269.0	4249.3	4238.3	4229.5
12.5°	4361.0	4334.7	4317.2	4290.9	4264.6	4249.3	4225.2	4209.9	4190.1	4168.2	4155.0
15°	4330.4	4301.9	4277.8	4249.3	4220.8	4203.3	4174.8	4157.3	4128.8	4106.8	4091.5
17.5°	4284.4	4260.2	4233.9	4198.9	4172.6	4150.7	4119.9	4098.1	4071.8	4043.3	4027.9
20°	4236.1	4207.6	4181.4	4146.3	4119.9	4093.7	4063.0	4038.9	4008.2	3981.9	3964.4
22.5°	4172.6	4139.7	4117.8	4082.7	4052.0	4023.6	3995.1	3966.6	3938.1	3916.2	3896.4
25°	4080.5	4045.4	4021.3	3992.8	3964.4	3942.5	3907.4	3889.9	3861.4	3841.6	3821.9
27.5°	3949.0	3922.7	3900.8	3872.3	3848.2	3830.7	3804.4	3786.9	3762.7	3745.2	3729.9
30°	3756.2	3734.3	3714.6	3686.0	3668.5	3653.2	3629.0	3613.7	3596.2	3576.5	3572.1
32.5°	3497.6	3480.0	3460.4	3440.6	3427.4	3418.7	3398.9	3390.2	3372.7	3361.7	3350.8
35°	3107.5	3092.2	3081.2	3072.5	3068.1	3070.2	3065.9	3074.7	3079.0	3076.8	3079.0
37.5°	2596.9	2588.1	2592.5	2599.1	2621.0	2649.5	2675.8	2715.2	2741.5	2767.9	2792.0
40°	2027.1	2033.7	2051.2	2090.6	2147.6	2211.2	2270.4	2344.9	2419.4	2472.0	2520.2
42.5°	1529.7	1549.4	1593.2	1650.2	1735.7	1829.9	1922.0	2031.5	2121.4	2209.0	2270.4
45°	1150.5	1176.8	1233.8	1312.7	1406.9	1516.5	1632.7	1755.3	1862.8	1952.6	2020.5
47.5°	896.3	920.4	977.4	1060.7	1176.8	1290.8	1411.3	1538.4	1650.2	1737.8	1797.0
50°	707.8	738.5	788.9	876.6	992.8	1113.3	1238.2	1363.1	1468.3	1542.8	1595.4
52.5°	556.6	585.1	633.3	725.4	843.8	964.3	1080.4	1203.1	1295.1	1367.5	1402.6
55°	431.7	458.1	508.4	585.1	696.9	815.3	931.3	1036.6	1122.0	1174.6	1207.5
57.5°	328.7	348.5	383.5	460.2	561.1	670.6	769.2	874.4	940.2	977.4	999.3
60°	249.9	265.2	302.5	361.6	453.6	547.9	631.1	710.1	762.7	793.3	815.3
62.5°	188.4	206.0	232.3	282.7	352.8	429.5	499.6	558.8	602.6	622.4	637.7
65°	129.3	142.4	162.2	201.6	260.8	315.5	370.4	414.2	442.7	464.6	473.4
67.5°	96.4	105.2	116.2	146.9	188.4	232.3	269.5	300.2	331.0	339.7	355.0
70°	72.3	78.9	89.8	111.8	135.8	166.5	197.3	214.8	236.7	252.0	256.4
72.5°	46.0	48.2	59.2	72.3	92.0	111.8	131.5	146.9	160.0	168.8	173.1
75°	26.3	39.4	39.4	52.6	65.8	74.5	87.7	98.6	105.2	111.8	111.8
77.5°	17.5	24.1	26.3	32.8	39.4	50.4	61.3	67.9	74.5	76.7	76.7
80°	15.3	17.5	17.5	24.1	28.5	37.3	43.8	46.0	50.4	52.6	57.0
82.5°	6.6	8.7	10.9	17.5	19.8	19.8	26.3	28.5	32.8	35.1	35.1
85°	2.2	4.4	4.4	6.6	10.9	13.2	15.3	17.5	19.8	19.8	21.9
87.5°	2.2	2.2	0.0	2.2	4.4	4.4	8.7	8.7	8.7	13.2	13.2
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: P248687

CATALOG NUMBER: LD8B70D010 ER8B70850 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1	4488.1
2.5°	4448.7	4450.9	4442.1	4440.0	4435.5	4437.7	4442.1
5°	4367.6	4369.8	4361.0	4352.3	4352.3	4350.0	4352.3
7.5°	4290.9	4293.1	4279.9	4275.5	4266.8	4269.0	4269.0
10°	4214.2	4214.2	4194.5	4192.3	4185.7	4183.5	4183.5
12.5°	4139.7	4133.1	4117.8	4109.0	4113.4	4100.3	4100.3
15°	4073.9	4063.0	4043.3	4036.7	4025.8	4021.3	4021.3
17.5°	4006.0	3997.2	3979.7	3966.6	3953.4	3951.2	3953.4
20°	3940.2	3931.5	3909.6	3900.8	3889.9	3889.9	3885.5
22.5°	3874.5	3865.7	3846.1	3839.5	3824.1	3824.1	3826.3
25°	3806.6	3800.0	3778.1	3773.7	3771.6	3762.7	3767.1
27.5°	3714.6	3710.1	3692.6	3686.0	3677.3	3675.1	3679.5
30°	3545.8	3539.2	3526.1	3519.5	3504.2	3506.4	3510.7
32.5°	3335.4	3326.7	3309.1	3302.5	3289.4	3285.0	3287.2
35°	3072.5	3065.9	3050.6	3050.6	3037.4	3033.0	3037.4
37.5°	2805.1	2811.6	2805.1	2811.6	2805.1	2802.9	2805.1
40°	2553.1	2577.2	2581.5	2605.7	2596.9	2610.0	2607.9
42.5°	2312.0	2351.4	2366.8	2386.5	2382.2	2390.9	2397.5
45°	2068.7	2101.6	2117.0	2130.1	2132.3	2136.7	2138.9
47.5°	1838.6	1864.9	1867.1	1882.4	1880.3	1880.3	1886.9
50°	1623.9	1641.4	1645.8	1656.8	1648.0	1643.6	1645.8
52.5°	1424.5	1442.0	1437.6	1442.0	1431.1	1426.6	1428.8
55°	1220.6	1229.4	1229.4	1229.4	1216.3	1216.3	1216.3
57.5°	1012.4	1014.7	1010.3	1012.4	1010.3	997.1	994.9
60°	821.8	821.8	819.6	821.8	815.3	808.7	808.7
62.5°	642.1	646.5	655.2	646.5	642.1	646.5	639.9
65°	480.0	488.7	486.5	490.9	488.7	488.7	484.3
67.5°	361.6	363.8	366.0	368.2	368.2	368.2	368.2
70°	265.2	271.8	269.5	269.5	269.5	269.5	282.7
72.5°	177.5	186.3	184.1	188.4	188.4	192.9	188.4
75°	120.5	129.3	124.9	131.5	129.3	124.9	135.8
77.5°	81.1	85.5	87.7	89.8	87.7	85.5	87.7
80°	57.0	61.3	59.2	61.3	61.3	61.3	63.6
82.5°	35.1	41.7	39.4	41.7	39.4	41.7	41.7
85°	24.1	26.3	21.9	26.3	24.1	24.1	28.5
87.5°	15.3	13.2	13.2	15.3	13.2	15.3	13.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)