

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: P249011

Luminaire Tested: **LD8B70D010 ER8B70850 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249011
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 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7546.0 lumens
Efficiency: N/A
Efficacy: 99.4 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

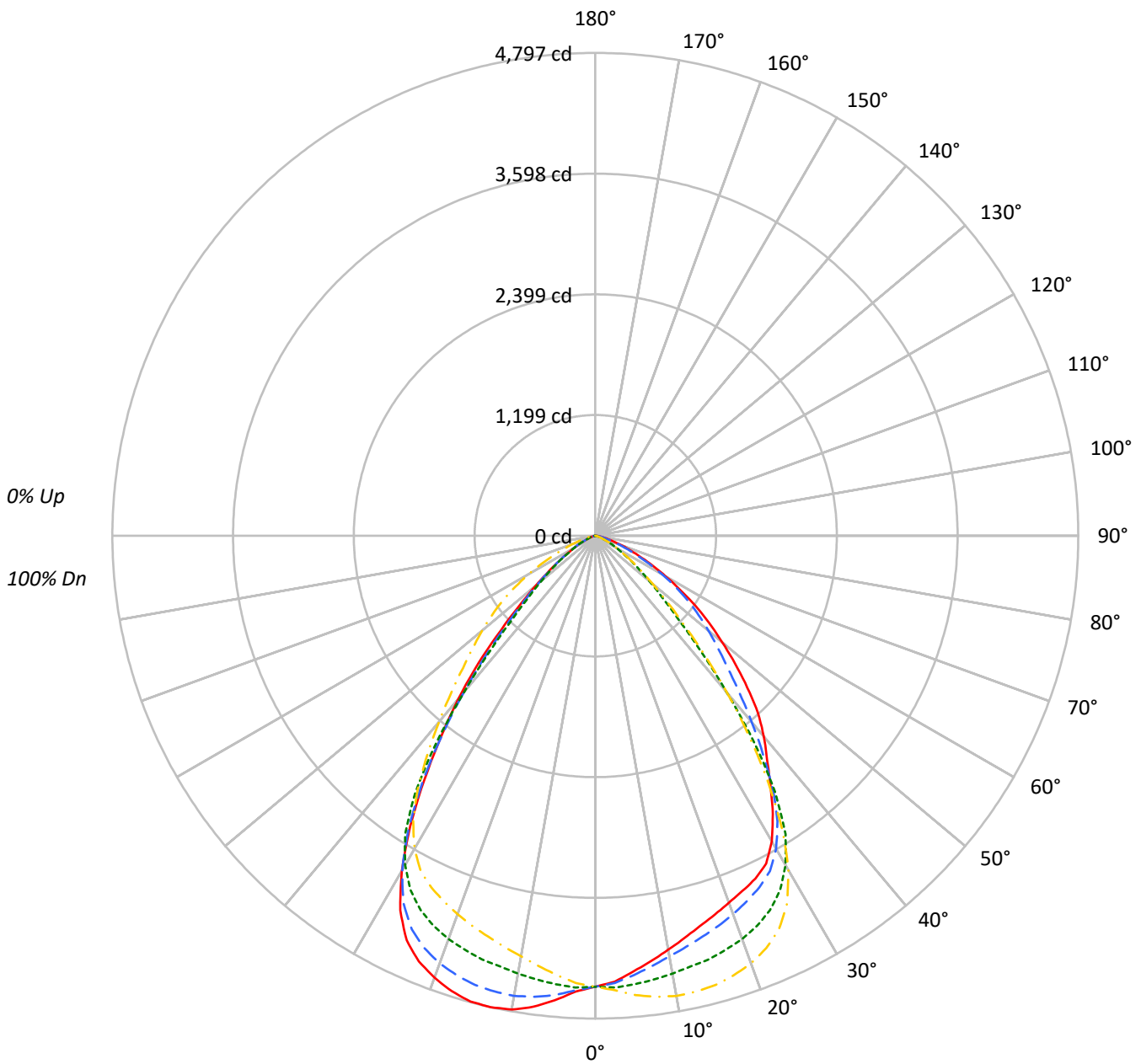
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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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°	138141	138141	138141	138141
5°	134471	138464	143410	138464
10°	130753	138283	149656	138283
15°	128140	139106	152929	139106
20°	127268	139902	153323	139902
25°	127937	139621	150859	139621
30°	124773	134508	136926	134508
35°	114130	117337	111329	117337
40°	104781	81623	85238	81623
45°	93101	49793	57616	49793
50°	78805	33264	36939	33264
55°	65266	22698	23988	22698
60°	49782	15110	15239	15110
65°	35271	9412	8617	9412
70°	25443	6311	5725	6311
75°	16156	3133	2609	3133
80°	11276	2326	1936	2326
85°	10084	0	778	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.4	5.7
10°-20°	1234.8	16.4
20°-30°	1869.7	24.8
30°-40°	1873.9	24.8
40°-50°	1176.7	15.6
50°-60°	627.1	8.3
60°-70°	257.9	3.4
70°-80°	68.1	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°	3530.8	46.8
0°-40°	5404.7	71.6
0°-60°	7208.5	95.5
0°-90°	7546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7546.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4480	4480	4480	4480	4480	
5°	4344	4473	4633	4473	4344	410
15°	4014	4357	4790	4357	4014	1135
25°	3760	4104	4434	4104	3760	1725
35°	3032	3117	2957	3117	3032	1899
45°	2135	1142	1321	1142	2135	1642
55°	1214	422	446	422	1214	1082
65°	483	129	118	129	483	501
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°	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8
2.5°	4433.9	4429.5	4427.3	4431.7	4433.9	4442.6	4440.5	4444.8	4444.8	4447.0	4451.4
5°	4344.2	4342.0	4344.2	4344.2	4353.0	4361.7	4359.5	4366.1	4370.4	4381.4	4385.7
7.5°	4261.1	4261.1	4258.9	4267.6	4272.0	4285.2	4282.9	4293.9	4300.5	4311.4	4326.7
10°	4175.8	4175.8	4177.9	4184.5	4186.8	4206.4	4206.4	4221.7	4230.4	4241.4	4261.1
12.5°	4092.7	4092.7	4105.8	4101.4	4110.1	4125.4	4132.0	4147.3	4160.5	4182.3	4202.1
15°	4013.9	4013.9	4018.3	4029.2	4035.8	4055.5	4066.4	4083.9	4099.2	4121.1	4149.6
17.5°	3946.1	3943.9	3946.1	3959.2	3972.4	3989.8	3998.6	4020.5	4035.8	4064.2	4090.5
20°	3878.3	3882.7	3882.7	3893.6	3902.3	3924.2	3932.9	3957.1	3974.5	4000.7	4031.4
22.5°	3819.2	3817.1	3817.1	3832.4	3838.9	3858.6	3867.3	3889.2	3908.9	3930.8	3959.2
25°	3760.2	3755.8	3764.6	3766.7	3771.1	3792.9	3799.5	3814.8	3834.5	3854.3	3882.7
27.5°	3672.7	3668.3	3670.5	3679.2	3685.8	3703.3	3707.7	3723.0	3738.3	3755.8	3779.9
30°	3504.2	3499.9	3497.7	3513.0	3519.6	3532.6	3539.2	3565.5	3569.8	3589.5	3607.0
32.5°	3281.1	3278.9	3283.3	3296.4	3303.0	3320.5	3329.3	3344.6	3355.5	3366.4	3383.9
35°	3031.8	3027.4	3031.8	3044.9	3044.9	3060.2	3066.8	3073.3	3071.1	3073.3	3069.0
37.5°	2799.9	2797.7	2799.9	2806.4	2799.9	2806.4	2799.9	2786.8	2762.7	2736.5	2710.2
40°	2603.0	2605.2	2592.1	2600.9	2576.7	2572.4	2548.4	2515.5	2467.4	2414.9	2340.6
42.5°	2393.1	2386.5	2377.8	2382.1	2362.4	2347.1	2307.7	2266.2	2204.9	2117.5	2027.7
45°	2134.9	2132.8	2128.4	2126.2	2113.1	2097.7	2064.9	2016.8	1949.0	1859.3	1752.1
47.5°	1883.4	1876.8	1876.8	1879.0	1863.7	1861.5	1835.2	1793.7	1734.6	1647.1	1535.6
50°	1642.7	1640.5	1645.0	1653.7	1642.7	1638.4	1620.9	1592.5	1540.0	1465.6	1360.5
52.5°	1426.2	1424.0	1428.4	1439.3	1434.9	1439.3	1421.8	1400.0	1364.9	1292.7	1200.9
55°	1214.0	1214.0	1214.0	1227.1	1227.1	1227.1	1218.4	1205.3	1172.4	1120.0	1034.7
57.5°	993.1	995.3	1008.4	1010.6	1008.4	1012.8	1010.6	997.4	975.6	938.4	872.8
60°	807.2	807.2	813.7	820.3	818.1	820.3	820.3	813.7	791.9	761.3	708.8
62.5°	638.7	645.3	640.9	645.3	654.0	645.3	640.9	636.6	621.2	601.5	557.8
65°	483.4	487.8	487.8	490.0	485.6	487.8	479.1	472.5	463.8	441.9	413.4
67.5°	367.5	367.5	367.5	367.5	365.3	363.1	361.0	354.4	339.1	330.3	299.6
70°	282.2	269.0	269.0	269.0	269.0	271.3	264.7	256.0	251.6	236.3	214.4
72.5°	188.1	192.5	188.1	188.1	183.8	185.9	177.2	172.8	168.5	159.7	146.6
75°	135.6	124.7	129.0	131.3	124.7	129.0	120.3	111.6	111.6	105.0	98.4
77.5°	87.5	85.4	87.5	89.7	87.5	85.4	80.9	76.5	76.5	74.4	67.8
80°	63.5	61.2	61.2	61.2	59.1	61.2	56.9	56.9	52.5	50.3	45.9
82.5°	41.6	41.6	39.3	41.6	39.3	41.6	35.0	35.0	35.0	32.8	28.5
85°	28.5	24.0	24.0	26.3	21.9	26.3	24.0	21.9	19.7	19.7	17.5
87.5°	13.1	15.3	13.1	15.3	13.1	13.1	15.3	13.1	13.1	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°	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8
2.5°	4457.9	4460.1	4460.1	4468.9	4473.2	4475.4	4475.4	4493.0	4486.4	4490.8	4495.1
5°	4394.6	4407.6	4412.0	4412.0	4436.1	4444.8	4453.5	4473.2	4475.4	4488.6	4503.9
7.5°	4333.2	4348.5	4357.4	4377.0	4392.3	4407.6	4433.9	4447.0	4460.1	4477.7	4497.3
10°	4274.2	4291.7	4309.2	4324.5	4348.5	4368.3	4385.7	4416.3	4431.7	4455.8	4482.0
12.5°	4217.4	4241.4	4256.7	4282.9	4309.2	4326.7	4353.0	4381.4	4405.5	4429.5	4460.1
15°	4167.0	4195.5	4213.0	4241.4	4269.9	4293.9	4322.3	4357.4	4374.8	4403.3	4431.7
17.5°	4112.3	4143.0	4164.9	4191.1	4226.1	4252.3	4276.4	4311.4	4333.2	4363.9	4396.7
20°	4055.5	4086.1	4112.3	4138.6	4173.6	4199.8	4228.3	4263.3	4287.3	4317.9	4344.2
22.5°	3987.7	4016.1	4044.5	4075.1	4110.1	4132.0	4164.9	4195.5	4221.7	4250.1	4276.4
25°	3900.2	3935.2	3957.1	3985.4	4013.9	4037.9	4072.9	4103.6	4125.4	4151.7	4175.8
27.5°	3797.3	3823.6	3841.1	3865.1	3893.6	3915.5	3941.7	3972.4	3994.3	4018.3	4035.8
30°	3622.3	3646.4	3661.8	3679.2	3707.7	3727.4	3749.3	3777.6	3792.9	3810.5	3825.8
32.5°	3392.6	3412.4	3421.1	3434.2	3454.0	3473.6	3491.1	3515.2	3521.8	3532.6	3532.6
35°	3060.2	3064.5	3062.4	3066.8	3075.5	3086.4	3101.7	3117.0	3125.8	3125.8	3119.3
37.5°	2670.8	2644.6	2616.2	2594.3	2587.7	2583.3	2592.1	2598.6	2607.4	2611.8	2600.9
40°	2266.2	2207.1	2143.7	2086.8	2047.4	2029.9	2023.4	2027.7	2027.7	2043.0	2043.0
42.5°	1918.4	1826.5	1732.5	1647.1	1590.2	1546.5	1526.8	1526.8	1529.0	1540.0	1546.5
45°	1629.6	1513.7	1404.3	1310.3	1231.5	1174.6	1148.4	1141.8	1139.7	1144.0	1159.3
47.5°	1408.7	1288.4	1174.6	1058.7	975.6	918.7	894.7	885.9	877.1	885.9	888.1
50°	1235.9	1111.2	990.9	875.0	787.5	737.1	706.5	693.4	691.2	691.2	695.6
52.5°	1078.4	962.5	842.2	724.1	632.1	584.1	555.6	549.0	540.3	549.0	549.0
55°	929.6	813.7	695.6	584.1	507.4	457.2	430.9	422.2	417.8	424.3	424.3
57.5°	767.8	669.3	560.0	459.4	382.8	347.8	328.1	317.2	314.9	319.4	314.9
60°	630.0	546.9	452.8	361.0	301.9	264.7	249.4	245.0	240.6	245.0	245.0
62.5°	498.7	428.8	352.1	282.2	231.8	205.6	188.1	188.1	185.9	185.9	188.1
65°	369.7	314.9	260.3	201.2	161.9	142.2	129.0	129.0	126.9	129.0	126.9
67.5°	269.0	231.8	188.1	146.6	116.0	105.0	96.2	89.7	94.1	89.7	87.5
70°	196.9	166.2	135.6	111.6	89.7	78.8	72.2	70.0	65.6	65.6	65.6
72.5°	131.3	111.6	91.8	72.2	59.1	48.1	45.9	41.6	37.2	39.3	43.8
75°	87.5	74.4	65.6	52.5	39.3	39.3	26.3	26.3	21.9	26.3	19.7
77.5°	61.2	50.3	39.3	32.8	26.3	24.0	17.5	17.5	15.3	15.3	15.3
80°	43.8	37.2	28.5	24.0	17.5	17.5	15.3	13.1	10.9	10.9	13.1
82.5°	26.3	19.7	19.7	17.5	10.9	8.7	6.6	8.7	4.4	4.4	4.4
85°	15.3	13.1	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°	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8
2.5°	4506.1	4503.9	4508.3	4508.3	4521.4	4519.2	4525.7	4525.7	4521.4	4523.6	4532.3
5°	4521.4	4528.0	4541.0	4552.0	4571.7	4580.5	4591.4	4602.4	4604.5	4611.1	4617.7
7.5°	4521.4	4543.3	4558.6	4578.2	4604.5	4619.8	4643.9	4663.6	4672.3	4683.2	4696.4
10°	4512.6	4534.5	4562.9	4584.8	4617.7	4641.7	4665.7	4696.4	4709.5	4727.0	4744.5
12.5°	4495.1	4519.2	4549.8	4578.2	4615.4	4637.3	4667.9	4696.4	4716.1	4740.1	4759.8
15°	4468.9	4497.3	4525.7	4554.2	4593.5	4619.8	4648.3	4681.1	4700.8	4727.0	4744.5
17.5°	4427.3	4457.9	4484.2	4510.4	4547.6	4578.2	4604.5	4635.1	4654.9	4676.7	4700.8
20°	4377.0	4405.5	4433.9	4455.8	4493.0	4519.2	4547.6	4576.1	4591.4	4595.8	4633.0
22.5°	4313.6	4333.2	4355.1	4390.1	4412.0	4436.1	4462.4	4488.6	4503.9	4528.0	4541.0
25°	4208.5	4228.3	4252.3	4267.6	4293.9	4313.6	4339.8	4368.3	4377.0	4394.6	4407.6
27.5°	4062.1	4072.9	4083.9	4097.0	4112.3	4123.3	4138.6	4151.7	4160.5	4169.2	4177.9
30°	3830.1	3830.1	3830.1	3821.4	3828.0	3834.5	3836.7	3834.5	3834.5	3832.4	3832.4
32.5°	3523.9	3506.4	3486.7	3469.3	3462.7	3454.0	3449.5	3443.0	3432.1	3425.5	3427.7
35°	3110.5	3071.1	3047.1	3025.2	3007.7	2994.6	2988.0	2981.4	2979.3	2970.6	2961.7
37.5°	2594.3	2565.8	2548.4	2535.2	2519.9	2506.8	2508.9	2511.2	2517.7	2513.3	2515.5
40°	2047.4	2040.8	2047.4	2032.1	2027.7	2032.1	2043.0	2058.4	2067.1	2075.9	2091.2
42.5°	1557.4	1568.3	1583.7	1583.7	1590.2	1599.0	1612.1	1636.2	1649.3	1664.6	1682.1
45°	1172.4	1185.6	1205.3	1211.8	1216.2	1227.1	1242.5	1262.1	1270.9	1284.0	1299.3
47.5°	903.4	912.2	923.0	934.0	944.9	949.3	964.6	964.6	975.6	984.4	988.7
50°	704.4	713.1	721.8	728.4	732.8	739.4	743.7	750.3	752.4	756.8	759.0
52.5°	551.2	562.2	562.2	566.5	573.1	579.7	577.5	579.7	581.8	581.8	588.4
55°	430.9	430.9	437.5	437.5	441.9	439.6	441.9	441.9	441.9	441.9	444.1
57.5°	321.5	323.8	330.3	325.9	323.8	328.1	323.8	328.1	325.9	330.3	323.8
60°	247.1	247.1	249.4	249.4	251.6	251.6	251.6	249.4	249.4	247.1	247.1
62.5°	185.9	188.1	190.3	188.1	188.1	188.1	185.9	185.9	183.8	181.5	181.5
65°	124.7	122.5	126.9	122.5	124.7	124.7	122.5	124.7	118.1	120.3	118.1
67.5°	89.7	87.5	85.4	87.5	85.4	83.1	83.1	85.4	87.5	80.9	80.9
70°	59.1	61.2	59.1	61.2	63.5	63.5	61.2	59.1	61.2	56.9	59.1
72.5°	37.2	37.2	37.2	37.2	37.2	39.3	39.3	39.3	35.0	35.0	32.8
75°	17.5	24.0	19.7	17.5	24.0	24.0	21.9	21.9	19.7	19.7	19.7
77.5°	17.5	13.1	13.1	13.1	13.1	13.1	13.1	13.1	10.9	13.1	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: P249011

CATALOG NUMBER: LD8B70D010 ER8B70850 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8
2.5°	4530.2	4528.0	4530.2	4532.3	4530.2	4528.0	4530.2	4532.3	4523.6	4521.4	4525.7
5°	4626.4	4626.4	4630.7	4633.0	4630.7	4626.4	4626.4	4617.7	4611.1	4604.5	4602.4
7.5°	4709.5	4713.9	4718.2	4720.4	4718.2	4713.9	4709.5	4696.4	4683.2	4672.3	4663.6
10°	4759.8	4766.4	4775.1	4779.5	4775.1	4766.4	4759.8	4744.5	4727.0	4709.5	4696.4
12.5°	4781.7	4788.3	4799.2	4797.0	4799.2	4788.3	4781.7	4759.8	4740.1	4716.1	4696.4
15°	4766.4	4775.1	4786.0	4790.4	4786.0	4775.1	4766.4	4744.5	4727.0	4700.8	4681.1
17.5°	4718.2	4731.4	4738.0	4744.5	4738.0	4731.4	4718.2	4700.8	4676.7	4654.9	4635.1
20°	4652.6	4661.4	4670.2	4672.3	4670.2	4661.4	4652.6	4633.0	4595.8	4591.4	4576.1
22.5°	4558.6	4565.2	4584.8	4578.2	4584.8	4565.2	4558.6	4541.0	4528.0	4503.9	4488.6
25°	4422.9	4429.5	4431.7	4433.9	4431.7	4429.5	4422.9	4407.6	4394.6	4377.0	4368.3
27.5°	4188.9	4188.9	4193.2	4195.5	4193.2	4188.9	4188.9	4177.9	4169.2	4160.5	4151.7
30°	3834.5	3834.5	3834.5	3845.5	3834.5	3834.5	3834.5	3832.4	3832.4	3834.5	3834.5
32.5°	3425.5	3421.1	3416.8	3421.1	3416.8	3421.1	3425.5	3427.7	3425.5	3432.1	3443.0
35°	2961.7	2959.6	2966.1	2957.4	2966.1	2959.6	2961.7	2961.7	2970.6	2979.3	2981.4
37.5°	2517.7	2513.3	2522.1	2513.3	2522.1	2513.3	2517.7	2515.5	2513.3	2517.7	2511.2
40°	2095.6	2099.9	2099.9	2117.5	2099.9	2099.9	2095.6	2091.2	2075.9	2067.1	2058.4
42.5°	1690.9	1704.0	1699.6	1712.8	1699.6	1704.0	1690.9	1682.1	1664.6	1649.3	1636.2
45°	1308.0	1316.9	1316.9	1321.2	1316.9	1316.9	1308.0	1299.3	1284.0	1270.9	1262.1
47.5°	1004.0	1004.0	1004.0	1006.2	1004.0	1004.0	1004.0	988.7	984.4	975.6	964.6
50°	763.4	765.6	767.8	770.0	767.8	765.6	763.4	759.0	756.8	752.4	750.3
52.5°	586.2	588.4	584.1	588.4	584.1	588.4	586.2	588.4	581.8	581.8	579.7
55°	444.1	441.9	444.1	446.2	444.1	441.9	444.1	444.1	441.9	441.9	441.9
57.5°	325.9	321.5	321.5	321.5	321.5	321.5	325.9	323.8	330.3	325.9	328.1
60°	242.8	245.0	245.0	247.1	245.0	245.0	242.8	247.1	247.1	249.4	249.4
62.5°	179.4	185.9	181.5	185.9	181.5	185.9	179.4	181.5	181.5	183.8	185.9
65°	116.0	116.0	116.0	118.1	116.0	116.0	116.0	118.1	120.3	118.1	124.7
67.5°	78.8	80.9	85.4	83.1	85.4	80.9	78.8	80.9	80.9	87.5	85.4
70°	63.5	56.9	56.9	63.5	56.9	56.9	63.5	59.1	56.9	61.2	59.1
72.5°	37.2	32.8	37.2	37.2	37.2	32.8	37.2	32.8	35.0	35.0	39.3
75°	19.7	17.5	15.3	21.9	15.3	17.5	19.7	19.7	19.7	19.7	21.9
77.5°	13.1	10.9	15.3	15.3	15.3	10.9	13.1	10.9	13.1	10.9	13.1
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: P249011

CATALOG NUMBER: LD8B70D010 ER8B70850 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8
2.5°	4525.7	4519.2	4521.4	4508.3	4508.3	4503.9	4506.1	4495.1	4490.8	4486.4	4493.0
5°	4591.4	4580.5	4571.7	4552.0	4541.0	4528.0	4521.4	4503.9	4488.6	4475.4	4473.2
7.5°	4643.9	4619.8	4604.5	4578.2	4558.6	4543.3	4521.4	4497.3	4477.7	4460.1	4447.0
10°	4665.7	4641.7	4617.7	4584.8	4562.9	4534.5	4512.6	4482.0	4455.8	4431.7	4416.3
12.5°	4667.9	4637.3	4615.4	4578.2	4549.8	4519.2	4495.1	4460.1	4429.5	4405.5	4381.4
15°	4648.3	4619.8	4593.5	4554.2	4525.7	4497.3	4468.9	4431.7	4403.3	4374.8	4357.4
17.5°	4604.5	4578.2	4547.6	4510.4	4484.2	4457.9	4427.3	4396.7	4363.9	4333.2	4311.4
20°	4547.6	4519.2	4493.0	4455.8	4433.9	4405.5	4377.0	4344.2	4317.9	4287.3	4263.3
22.5°	4462.4	4436.1	4412.0	4390.1	4355.1	4333.2	4313.6	4276.4	4250.1	4221.7	4195.5
25°	4339.8	4313.6	4293.9	4267.6	4252.3	4228.3	4208.5	4175.8	4151.7	4125.4	4103.6
27.5°	4138.6	4123.3	4112.3	4097.0	4083.9	4072.9	4062.1	4035.8	4018.3	3994.3	3972.4
30°	3836.7	3834.5	3828.0	3821.4	3830.1	3830.1	3830.1	3825.8	3810.5	3792.9	3777.6
32.5°	3449.5	3454.0	3462.7	3469.3	3486.7	3506.4	3523.9	3532.6	3532.6	3521.8	3515.2
35°	2988.0	2994.6	3007.7	3025.2	3047.1	3071.1	3110.5	3119.3	3125.8	3125.8	3117.0
37.5°	2508.9	2506.8	2519.9	2535.2	2548.4	2565.8	2594.3	2600.9	2611.8	2607.4	2598.6
40°	2043.0	2032.1	2027.7	2032.1	2047.4	2040.8	2047.4	2043.0	2043.0	2027.7	2027.7
42.5°	1612.1	1599.0	1590.2	1583.7	1583.7	1568.3	1557.4	1546.5	1540.0	1529.0	1526.8
45°	1242.5	1227.1	1216.2	1211.8	1205.3	1185.6	1172.4	1159.3	1144.0	1139.7	1141.8
47.5°	964.6	949.3	944.9	934.0	923.0	912.2	903.4	888.1	885.9	877.1	885.9
50°	743.7	739.4	732.8	728.4	721.8	713.1	704.4	695.6	691.2	691.2	693.4
52.5°	577.5	579.7	573.1	566.5	562.2	562.2	551.2	549.0	549.0	540.3	549.0
55°	441.9	439.6	441.9	437.5	437.5	430.9	430.9	424.3	424.3	417.8	422.2
57.5°	323.8	328.1	323.8	325.9	330.3	323.8	321.5	314.9	319.4	314.9	317.2
60°	251.6	251.6	251.6	249.4	249.4	247.1	247.1	245.0	245.0	240.6	245.0
62.5°	185.9	188.1	188.1	188.1	190.3	188.1	185.9	188.1	185.9	185.9	188.1
65°	122.5	124.7	124.7	122.5	126.9	122.5	124.7	126.9	129.0	126.9	129.0
67.5°	83.1	83.1	85.4	87.5	85.4	87.5	89.7	87.5	89.7	94.1	89.7
70°	61.2	63.5	63.5	61.2	59.1	61.2	59.1	65.6	65.6	65.6	70.0
72.5°	39.3	39.3	37.2	37.2	37.2	37.2	37.2	43.8	39.3	37.2	41.6
75°	21.9	24.0	24.0	17.5	19.7	24.0	17.5	19.7	26.3	21.9	26.3
77.5°	13.1	13.1	13.1	13.1	13.1	13.1	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	13.1	10.9	10.9	13.1
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: P249011

CATALOG NUMBER: LD8B70D010 ER8B70850 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8
2.5°	4475.4	4475.4	4473.2	4468.9	4460.1	4460.1	4457.9	4451.4	4447.0	4444.8	4444.8
5°	4453.5	4444.8	4436.1	4412.0	4412.0	4407.6	4394.6	4385.7	4381.4	4370.4	4366.1
7.5°	4433.9	4407.6	4392.3	4377.0	4357.4	4348.5	4333.2	4326.7	4311.4	4300.5	4293.9
10°	4385.7	4368.3	4348.5	4324.5	4309.2	4291.7	4274.2	4261.1	4241.4	4230.4	4221.7
12.5°	4353.0	4326.7	4309.2	4282.9	4256.7	4241.4	4217.4	4202.1	4182.3	4160.5	4147.3
15°	4322.3	4293.9	4269.9	4241.4	4213.0	4195.5	4167.0	4149.6	4121.1	4099.2	4083.9
17.5°	4276.4	4252.3	4226.1	4191.1	4164.9	4143.0	4112.3	4090.5	4064.2	4035.8	4020.5
20°	4228.3	4199.8	4173.6	4138.6	4112.3	4086.1	4055.5	4031.4	4000.7	3974.5	3957.1
22.5°	4164.9	4132.0	4110.1	4075.1	4044.5	4016.1	3987.7	3959.2	3930.8	3908.9	3889.2
25°	4072.9	4037.9	4013.9	3985.4	3957.1	3935.2	3900.2	3882.7	3854.3	3834.5	3814.8
27.5°	3941.7	3915.5	3893.6	3865.1	3841.1	3823.6	3797.3	3779.9	3755.8	3738.3	3723.0
30°	3749.3	3727.4	3707.7	3679.2	3661.8	3646.4	3622.3	3607.0	3589.5	3569.8	3565.5
32.5°	3491.1	3473.6	3454.0	3434.2	3421.1	3412.4	3392.6	3383.9	3366.4	3355.5	3344.6
35°	3101.7	3086.4	3075.5	3066.8	3062.4	3064.5	3060.2	3069.0	3073.3	3071.1	3073.3
37.5°	2592.1	2583.3	2587.7	2594.3	2616.2	2644.6	2670.8	2710.2	2736.5	2762.7	2786.8
40°	2023.4	2029.9	2047.4	2086.8	2143.7	2207.1	2266.2	2340.6	2414.9	2467.4	2515.5
42.5°	1526.8	1546.5	1590.2	1647.1	1732.5	1826.5	1918.4	2027.7	2117.5	2204.9	2266.2
45°	1148.4	1174.6	1231.5	1310.3	1404.3	1513.7	1629.6	1752.1	1859.3	1949.0	2016.8
47.5°	894.7	918.7	975.6	1058.7	1174.6	1288.4	1408.7	1535.6	1647.1	1734.6	1793.7
50°	706.5	737.1	787.5	875.0	990.9	1111.2	1235.9	1360.5	1465.6	1540.0	1592.5
52.5°	555.6	584.1	632.1	724.1	842.2	962.5	1078.4	1200.9	1292.7	1364.9	1400.0
55°	430.9	457.2	507.4	584.1	695.6	813.7	929.6	1034.7	1120.0	1172.4	1205.3
57.5°	328.1	347.8	382.8	459.4	560.0	669.3	767.8	872.8	938.4	975.6	997.4
60°	249.4	264.7	301.9	361.0	452.8	546.9	630.0	708.8	761.3	791.9	813.7
62.5°	188.1	205.6	231.8	282.2	352.1	428.8	498.7	557.8	601.5	621.2	636.6
65°	129.0	142.2	161.9	201.2	260.3	314.9	369.7	413.4	441.9	463.8	472.5
67.5°	96.2	105.0	116.0	146.6	188.1	231.8	269.0	299.6	330.3	339.1	354.4
70°	72.2	78.8	89.7	111.6	135.6	166.2	196.9	214.4	236.3	251.6	256.0
72.5°	45.9	48.1	59.1	72.2	91.8	111.6	131.3	146.6	159.7	168.5	172.8
75°	26.3	39.3	39.3	52.5	65.6	74.4	87.5	98.4	105.0	111.6	111.6
77.5°	17.5	24.0	26.3	32.8	39.3	50.3	61.2	67.8	74.4	76.5	76.5
80°	15.3	17.5	17.5	24.0	28.5	37.2	43.8	45.9	50.3	52.5	56.9
82.5°	6.6	8.7	10.9	17.5	19.7	19.7	26.3	28.5	32.8	35.0	35.0
85°	2.2	4.4	4.4	6.6	10.9	13.1	15.3	17.5	19.7	19.7	21.9
87.5°	2.2	2.2	0.0	2.2	4.4	4.4	8.7	8.7	8.7	13.1	13.1
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: P249011

CATALOG NUMBER: LD8B70D010 ER8B70850 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8	4479.8
2.5°	4440.5	4442.6	4433.9	4431.7	4427.3	4429.5	4433.9
5°	4359.5	4361.7	4353.0	4344.2	4344.2	4342.0	4344.2
7.5°	4282.9	4285.2	4272.0	4267.6	4258.9	4261.1	4261.1
10°	4206.4	4206.4	4186.8	4184.5	4177.9	4175.8	4175.8
12.5°	4132.0	4125.4	4110.1	4101.4	4105.8	4092.7	4092.7
15°	4066.4	4055.5	4035.8	4029.2	4018.3	4013.9	4013.9
17.5°	3998.6	3989.8	3972.4	3959.2	3946.1	3943.9	3946.1
20°	3932.9	3924.2	3902.3	3893.6	3882.7	3882.7	3878.3
22.5°	3867.3	3858.6	3838.9	3832.4	3817.1	3817.1	3819.2
25°	3799.5	3792.9	3771.1	3766.7	3764.6	3755.8	3760.2
27.5°	3707.7	3703.3	3685.8	3679.2	3670.5	3668.3	3672.7
30°	3539.2	3532.6	3519.6	3513.0	3497.7	3499.9	3504.2
32.5°	3329.3	3320.5	3303.0	3296.4	3283.3	3278.9	3281.1
35°	3066.8	3060.2	3044.9	3044.9	3031.8	3027.4	3031.8
37.5°	2799.9	2806.4	2799.9	2806.4	2799.9	2797.7	2799.9
40°	2548.4	2572.4	2576.7	2600.9	2592.1	2605.2	2603.0
42.5°	2307.7	2347.1	2362.4	2382.1	2377.8	2386.5	2393.1
45°	2064.9	2097.7	2113.1	2126.2	2128.4	2132.8	2134.9
47.5°	1835.2	1861.5	1863.7	1879.0	1876.8	1876.8	1883.4
50°	1620.9	1638.4	1642.7	1653.7	1645.0	1640.5	1642.7
52.5°	1421.8	1439.3	1434.9	1439.3	1428.4	1424.0	1426.2
55°	1218.4	1227.1	1227.1	1227.1	1214.0	1214.0	1214.0
57.5°	1010.6	1012.8	1008.4	1010.6	1008.4	995.3	993.1
60°	820.3	820.3	818.1	820.3	813.7	807.2	807.2
62.5°	640.9	645.3	654.0	645.3	640.9	645.3	638.7
65°	479.1	487.8	485.6	490.0	487.8	487.8	483.4
67.5°	361.0	363.1	365.3	367.5	367.5	367.5	367.5
70°	264.7	271.3	269.0	269.0	269.0	269.0	282.2
72.5°	177.2	185.9	183.8	188.1	188.1	192.5	188.1
75°	120.3	129.0	124.7	131.3	129.0	124.7	135.6
77.5°	80.9	85.4	87.5	89.7	87.5	85.4	87.5
80°	56.9	61.2	59.1	61.2	61.2	61.2	63.5
82.5°	35.0	41.6	39.3	41.6	39.3	41.6	41.6
85°	24.0	26.3	21.9	26.3	24.0	24.0	28.5
87.5°	15.3	13.1	13.1	15.3	13.1	15.3	13.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)