

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: P248753

Luminaire Tested: **LD8B100D010 ER8B100930 8LBSWOWMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248753
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: LD8B100D010 ER8B100930 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8904.1 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

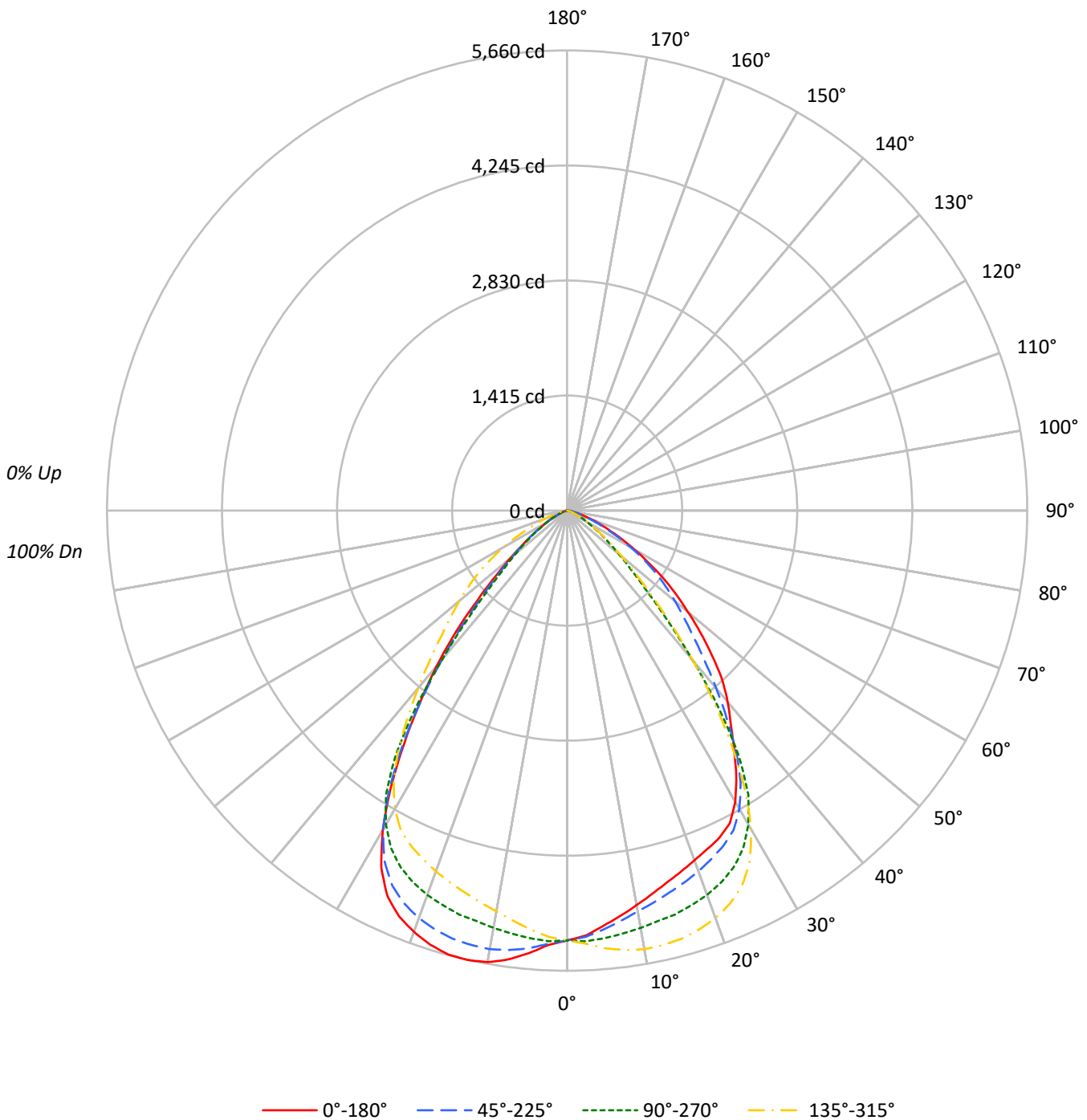
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.1	5.7
10°-20°	1457.0	16.4
20°-30°	2206.2	24.8
30°-40°	2211.1	24.8
40°-50°	1388.5	15.6
50°-60°	739.9	8.3
60°-70°	304.3	3.4
70°-80°	80.4	0.9
80°-90°	13.6	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°	4166.3	46.8
0°-40°	6377.4	71.6
0°-60°	8505.8	95.5
0°-90°	8904.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8904.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5286	5286	5286	5286	5286	
5°	5126	5278	5467	5278	5126	483
15°	4736	5142	5653	5142	4736	1340
25°	4437	4842	5232	4842	4437	2035
35°	3577	3678	3490	3678	3577	2241
45°	2519	1347	1559	1347	2519	1937
55°	1432	498	526	498	1432	1277
65°	570	152	139	152	570	592
75°	160	31	26	31	160	181
85°	34	0	3	0	34	37
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°	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1
2.5°	5231.9	5226.7	5224.2	5229.4	5231.9	5242.2	5239.7	5244.7	5244.7	5247.4	5252.6
5°	5126.1	5123.4	5126.1	5126.1	5136.4	5146.7	5144.2	5151.9	5157.0	5169.9	5175.1
7.5°	5028.0	5028.0	5025.3	5035.6	5040.9	5056.4	5053.7	5066.7	5074.4	5087.3	5105.4
10°	4927.4	4927.4	4929.8	4937.7	4940.2	4963.5	4963.5	4981.5	4991.8	5004.7	5028.0
12.5°	4829.3	4829.3	4844.7	4839.6	4849.9	4867.9	4875.7	4893.7	4909.2	4935.1	4958.3
15°	4736.3	4736.3	4741.5	4754.4	4762.1	4785.3	4798.2	4819.0	4837.0	4862.8	4896.4
17.5°	4656.3	4653.7	4656.3	4671.8	4687.3	4708.0	4718.2	4744.1	4762.1	4795.6	4826.7
20°	4576.3	4581.5	4581.5	4594.3	4604.6	4630.5	4640.8	4669.3	4689.8	4720.8	4757.0
22.5°	4506.6	4504.1	4504.1	4522.1	4529.8	4553.1	4563.4	4589.1	4612.5	4638.2	4671.8
25°	4436.9	4431.6	4442.1	4444.7	4449.8	4475.6	4483.3	4501.4	4524.7	4547.9	4581.5
27.5°	4333.7	4328.5	4331.1	4341.4	4349.1	4369.8	4374.9	4393.0	4411.1	4431.6	4460.1
30°	4134.9	4129.8	4127.2	4145.2	4153.1	4168.4	4176.2	4207.2	4212.3	4235.6	4256.2
32.5°	3871.6	3869.0	3874.3	3889.6	3897.4	3918.1	3928.4	3946.5	3959.4	3972.3	3992.9
35°	3577.4	3572.2	3577.4	3592.9	3592.9	3611.0	3618.7	3626.4	3623.9	3626.4	3621.3
37.5°	3303.8	3301.2	3303.8	3311.5	3303.8	3311.5	3303.8	3288.3	3260.0	3228.9	3198.0
40°	3071.5	3074.0	3058.6	3069.0	3040.5	3035.3	3007.0	2968.3	2911.5	2849.6	2761.8
42.5°	2823.8	2816.0	2805.8	2810.8	2787.6	2769.4	2723.0	2674.0	2601.7	2498.6	2392.7
45°	2519.1	2516.6	2511.4	2508.9	2493.3	2475.3	2436.5	2379.8	2299.7	2193.9	2067.5
47.5°	2222.4	2214.5	2214.5	2217.1	2199.1	2196.5	2165.5	2116.6	2046.8	1943.6	1811.9
50°	1938.3	1935.9	1941.0	1951.3	1938.3	1933.3	1912.7	1879.0	1817.1	1729.4	1605.4
52.5°	1682.8	1680.3	1685.5	1698.3	1693.2	1698.3	1677.7	1651.9	1610.7	1525.3	1417.1
55°	1432.5	1432.5	1432.5	1448.0	1448.0	1448.0	1437.7	1422.2	1383.4	1321.5	1220.9
57.5°	1171.8	1174.4	1189.9	1192.4	1189.9	1195.1	1192.4	1176.9	1151.3	1107.3	1029.9
60°	952.4	952.4	960.2	968.0	965.3	968.0	968.0	960.2	934.4	898.3	836.4
62.5°	753.6	761.4	756.2	761.4	771.7	761.4	756.2	751.1	733.0	709.8	658.1
65°	570.4	575.6	575.6	578.2	572.9	575.6	565.3	557.6	547.3	521.4	487.9
67.5°	433.7	433.7	433.7	433.7	431.0	428.4	425.9	418.1	400.1	389.8	353.6
70°	332.9	317.5	317.5	317.5	317.5	320.0	312.3	302.0	296.8	278.8	253.0
72.5°	222.0	227.1	222.0	222.0	216.8	219.4	209.1	203.9	198.8	188.4	173.0
75°	160.0	147.2	152.2	154.9	147.2	152.2	141.9	131.6	131.6	123.9	116.1
77.5°	103.2	100.7	103.2	105.8	103.2	100.7	95.5	90.4	90.4	87.8	80.0
80°	74.9	72.2	72.2	72.2	69.7	72.2	67.1	67.1	62.0	59.4	54.1
82.5°	49.1	49.1	46.4	49.1	46.4	49.1	41.4	41.4	41.4	38.7	33.5
85°	33.5	28.4	28.4	31.1	25.8	31.1	28.4	25.8	23.3	23.3	20.6
87.5°	15.5	18.0	15.5	18.0	15.5	15.5	18.0	15.5	15.5	10.3	10.3
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°	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1
2.5°	5260.3	5262.9	5262.9	5273.2	5278.3	5280.9	5280.9	5301.5	5293.8	5299.1	5304.1
5°	5185.5	5200.9	5206.0	5206.0	5234.4	5244.7	5255.0	5278.3	5280.9	5296.4	5314.4
7.5°	5113.1	5131.2	5141.6	5164.8	5182.8	5200.9	5231.9	5247.4	5262.9	5283.5	5306.7
10°	5043.4	5064.1	5084.7	5102.8	5131.2	5154.5	5175.1	5211.2	5229.4	5257.7	5288.7
12.5°	4976.3	5004.7	5022.9	5053.7	5084.7	5105.4	5136.4	5169.9	5198.3	5226.7	5262.9
15°	4917.0	4950.6	4971.2	5004.7	5038.3	5066.7	5100.3	5141.6	5162.2	5195.8	5229.4
17.5°	4852.4	4888.7	4914.5	4945.4	4986.7	5017.6	5046.1	5087.3	5113.1	5149.2	5188.0
20°	4785.3	4821.5	4852.4	4883.4	4924.8	4955.7	4989.2	5030.6	5059.0	5095.1	5126.1
22.5°	4705.4	4738.9	4772.4	4808.5	4849.9	4875.7	4914.5	4950.6	4981.5	5015.0	5046.1
25°	4602.2	4643.4	4669.3	4702.7	4736.3	4764.7	4806.0	4842.2	4867.9	4899.0	4927.4
27.5°	4480.7	4511.8	4532.4	4560.8	4594.3	4620.2	4651.1	4687.3	4713.1	4741.5	4762.1
30°	4274.3	4302.7	4320.8	4341.4	4374.9	4398.2	4424.0	4457.5	4475.6	4496.3	4514.4
32.5°	4003.2	4026.5	4036.8	4052.3	4075.6	4098.7	4119.5	4147.8	4155.5	4168.4	4168.4
35°	3611.0	3616.1	3613.5	3618.7	3629.0	3641.9	3660.0	3678.0	3688.3	3688.3	3680.7
37.5°	3151.5	3120.6	3087.0	3061.2	3053.5	3048.2	3058.6	3066.3	3076.7	3081.9	3069.0
40°	2674.0	2604.4	2529.4	2462.3	2415.9	2395.2	2387.5	2392.7	2392.7	2410.7	2410.7
42.5°	2263.6	2155.2	2044.3	1943.6	1876.4	1824.9	1801.7	1801.7	1804.1	1817.1	1824.9
45°	1923.0	1786.1	1657.1	1546.1	1453.2	1386.0	1355.1	1347.3	1344.8	1349.9	1368.0
47.5°	1662.2	1520.3	1386.0	1249.2	1151.3	1084.1	1055.8	1045.3	1035.0	1045.3	1047.9
50°	1458.3	1311.2	1169.3	1032.4	929.2	869.8	833.7	818.1	815.6	815.6	820.8
52.5°	1272.4	1135.7	993.8	854.4	745.9	689.2	655.6	647.8	637.5	647.8	647.8
55°	1096.9	960.2	820.8	689.2	598.7	539.5	508.5	498.2	492.9	500.8	500.8
57.5°	906.0	789.7	660.8	542.0	451.8	410.4	387.2	374.3	371.6	376.9	371.6
60°	743.3	645.2	534.3	425.9	356.3	312.3	294.3	289.1	283.8	289.1	289.1
62.5°	588.4	505.9	415.6	332.9	273.5	242.7	222.0	222.0	219.4	219.4	222.0
65°	436.2	371.6	307.2	237.4	191.0	167.7	152.2	152.2	149.7	152.2	149.7
67.5°	317.5	273.5	222.0	173.0	136.9	123.9	113.6	105.8	111.0	105.8	103.2
70°	232.4	196.2	160.0	131.6	105.8	92.9	85.2	82.5	77.5	77.5	77.5
72.5°	154.9	131.6	108.4	85.2	69.7	56.7	54.1	49.1	43.8	46.4	51.7
75°	103.2	87.8	77.5	62.0	46.4	46.4	31.1	31.1	25.8	31.1	23.3
77.5°	72.2	59.4	46.4	38.7	31.1	28.4	20.6	20.6	18.0	18.0	18.0
80°	51.7	43.8	33.5	28.4	20.6	20.6	18.0	15.5	12.9	12.9	15.5
82.5°	31.1	23.3	23.3	20.6	12.9	10.3	7.7	10.3	5.2	5.2	5.2
85°	18.0	15.5	12.9	7.7	5.2	5.2	2.6	0.0	2.6	2.6	0.0
87.5°	10.3	5.2	5.2	2.6	0.0	2.6	2.6	0.0	0.0	0.0	5.2
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°	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1
2.5°	5317.1	5314.4	5319.7	5319.7	5335.2	5332.5	5340.2	5340.2	5335.2	5337.8	5348.1
5°	5335.2	5342.9	5358.4	5371.3	5394.5	5404.9	5417.7	5430.7	5433.3	5441.0	5448.7
7.5°	5335.2	5361.0	5379.0	5402.2	5433.3	5451.3	5479.7	5502.9	5513.2	5526.1	5541.6
10°	5324.8	5350.5	5384.2	5409.9	5448.7	5477.1	5505.5	5541.6	5557.1	5577.8	5598.4
12.5°	5304.1	5332.5	5368.6	5402.2	5446.0	5471.9	5508.0	5541.6	5564.9	5593.2	5616.5
15°	5273.2	5306.7	5340.2	5373.8	5420.3	5451.3	5484.8	5523.5	5546.8	5577.8	5598.4
17.5°	5224.2	5260.3	5291.3	5322.2	5366.1	5402.2	5433.3	5469.4	5492.6	5518.5	5546.8
20°	5164.8	5198.3	5231.9	5257.7	5301.5	5332.5	5366.1	5399.6	5417.7	5422.9	5466.8
22.5°	5090.0	5113.1	5138.9	5180.3	5206.0	5234.4	5265.4	5296.4	5314.4	5342.9	5358.4
25°	4966.0	4989.2	5017.6	5035.6	5066.7	5090.0	5120.8	5154.5	5164.8	5185.5	5200.9
27.5°	4793.2	4806.0	4819.0	4834.3	4852.4	4865.4	4883.4	4899.0	4909.2	4919.5	4929.8
30°	4519.4	4519.4	4519.4	4509.1	4517.0	4524.7	4527.2	4524.7	4524.7	4522.1	4522.1
32.5°	4158.1	4137.5	4114.3	4093.7	4085.9	4075.6	4070.4	4062.6	4049.7	4042.0	4044.6
35°	3670.3	3623.9	3595.5	3569.7	3549.1	3533.5	3525.8	3518.0	3515.5	3505.1	3494.7
37.5°	3061.2	3027.6	3007.0	2991.5	2973.5	2958.0	2960.4	2963.1	2970.8	2965.7	2968.3
40°	2415.9	2408.1	2415.9	2397.8	2392.7	2397.8	2410.7	2428.9	2439.2	2449.5	2467.5
42.5°	1837.8	1850.5	1868.8	1868.8	1876.4	1886.9	1902.2	1930.7	1946.1	1964.2	1984.8
45°	1383.4	1399.0	1422.2	1429.8	1435.1	1448.0	1466.2	1489.2	1499.6	1515.1	1533.2
47.5°	1066.0	1076.3	1089.2	1102.2	1114.9	1120.2	1138.3	1138.3	1151.3	1161.5	1166.6
50°	831.1	841.4	851.7	859.5	864.7	872.5	877.5	885.3	887.8	893.1	895.6
52.5°	650.4	663.4	663.4	668.5	676.2	683.9	681.5	683.9	686.5	686.5	694.2
55°	508.5	508.5	516.2	516.2	521.4	518.8	521.4	521.4	521.4	521.4	524.0
57.5°	379.3	382.0	389.8	384.6	382.0	387.2	382.0	387.2	384.6	389.8	382.0
60°	291.7	291.7	294.3	294.3	296.8	296.8	296.8	294.3	294.3	291.7	291.7
62.5°	219.4	222.0	224.5	222.0	222.0	222.0	219.4	219.4	216.8	214.2	214.2
65°	147.2	144.6	149.7	144.6	147.2	147.2	144.6	147.2	139.3	141.9	139.3
67.5°	105.8	103.2	100.7	103.2	100.7	98.1	98.1	100.7	103.2	95.5	95.5
70°	69.7	72.2	69.7	72.2	74.9	74.9	72.2	69.7	72.2	67.1	69.7
72.5°	43.8	43.8	43.8	43.8	43.8	46.4	46.4	46.4	41.4	41.4	38.7
75°	20.6	28.4	23.3	20.6	28.4	28.4	25.8	25.8	23.3	23.3	23.3
77.5°	20.6	15.5	15.5	15.5	15.5	15.5	15.5	15.5	12.9	15.5	12.9
80°	10.3	10.3	10.3	7.7	10.3	10.3	12.9	10.3	10.3	7.7	12.9
82.5°	5.2	5.2	5.2	0.0	2.6	5.2	5.2	2.6	5.2	5.2	2.6
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: P248753

CATALOG NUMBER: LD8B100D010 ER8B100930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1
2.5°	5345.5	5342.9	5345.5	5348.1	5345.5	5342.9	5345.5	5348.1	5337.8	5335.2	5340.2
5°	5459.0	5459.0	5464.1	5466.8	5464.1	5459.0	5459.0	5448.7	5441.0	5433.3	5430.7
7.5°	5557.1	5562.3	5567.4	5569.9	5567.4	5562.3	5557.1	5541.6	5526.1	5513.2	5502.9
10°	5616.5	5624.3	5634.6	5639.6	5634.6	5624.3	5616.5	5598.4	5577.8	5557.1	5541.6
12.5°	5642.3	5650.1	5663.0	5660.4	5663.0	5650.1	5642.3	5616.5	5593.2	5564.9	5541.6
15°	5624.3	5634.6	5647.4	5652.6	5647.4	5634.6	5624.3	5598.4	5577.8	5546.8	5523.5
17.5°	5567.4	5582.9	5590.7	5598.4	5590.7	5582.9	5567.4	5546.8	5518.5	5492.6	5469.4
20°	5490.0	5500.4	5510.7	5513.2	5510.7	5500.4	5490.0	5466.8	5422.9	5417.7	5399.6
22.5°	5379.0	5386.9	5409.9	5402.2	5409.9	5386.9	5379.0	5358.4	5342.9	5314.4	5296.4
25°	5218.9	5226.7	5229.4	5231.9	5229.4	5226.7	5218.9	5200.9	5185.5	5164.8	5154.5
27.5°	4942.8	4942.8	4947.9	4950.6	4947.9	4942.8	4942.8	4929.8	4919.5	4909.2	4899.0
30°	4524.7	4524.7	4524.7	4537.6	4524.7	4524.7	4524.7	4522.1	4522.1	4524.7	4524.7
32.5°	4042.0	4036.8	4031.7	4036.8	4031.7	4036.8	4042.0	4044.6	4042.0	4049.7	4062.6
35°	3494.7	3492.3	3500.0	3489.7	3500.0	3492.3	3494.7	3494.7	3505.1	3515.5	3518.0
37.5°	2970.8	2965.7	2976.0	2965.7	2976.0	2965.7	2970.8	2968.3	2965.7	2970.8	2963.1
40°	2472.7	2477.9	2477.9	2498.6	2477.9	2477.9	2472.7	2467.5	2449.5	2439.2	2428.9
42.5°	1995.2	2010.7	2005.5	2021.1	2005.5	2010.7	1995.2	1984.8	1964.2	1946.1	1930.7
45°	1543.5	1553.8	1553.8	1559.0	1553.8	1553.8	1543.5	1533.2	1515.1	1499.6	1489.2
47.5°	1184.7	1184.7	1184.7	1187.4	1184.7	1184.7	1184.7	1166.6	1161.5	1151.3	1138.3
50°	900.8	903.4	906.0	908.6	906.0	903.4	900.8	895.6	893.1	887.8	885.3
52.5°	691.8	694.2	689.2	694.2	689.2	694.2	691.8	694.2	686.5	686.5	683.9
55°	524.0	521.4	524.0	526.5	524.0	521.4	524.0	524.0	521.4	521.4	521.4
57.5°	384.6	379.3	379.3	379.3	379.3	379.3	384.6	382.0	389.8	384.6	387.2
60°	286.5	289.1	289.1	291.7	289.1	289.1	286.5	291.7	291.7	294.3	294.3
62.5°	211.6	219.4	214.2	219.4	214.2	219.4	211.6	214.2	214.2	216.8	219.4
65°	136.9	136.9	136.9	139.3	136.9	136.9	136.9	139.3	141.9	139.3	147.2
67.5°	92.9	95.5	100.7	98.1	100.7	95.5	92.9	95.5	95.5	103.2	100.7
70°	74.9	67.1	67.1	74.9	67.1	67.1	74.9	69.7	67.1	72.2	69.7
72.5°	43.8	38.7	43.8	43.8	43.8	38.7	43.8	38.7	41.4	41.4	46.4
75°	23.3	20.6	18.0	25.8	18.0	20.6	23.3	23.3	23.3	23.3	25.8
77.5°	15.5	12.9	18.0	18.0	18.0	12.9	15.5	12.9	15.5	12.9	15.5
80°	7.7	10.3	7.7	12.9	7.7	10.3	7.7	12.9	7.7	10.3	10.3
82.5°	2.6	5.2	5.2	5.2	5.2	5.2	2.6	2.6	5.2	5.2	2.6
85°	0.0	5.2	2.6	2.6	2.6	5.2	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	0.0	0.0	2.6	0.0	0.0	2.6	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: P248753

CATALOG NUMBER: LD8B100D010 ER8B100930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1
2.5°	5340.2	5332.5	5335.2	5319.7	5319.7	5314.4	5317.1	5304.1	5299.1	5293.8	5301.5
5°	5417.7	5404.9	5394.5	5371.3	5358.4	5342.9	5335.2	5314.4	5296.4	5280.9	5278.3
7.5°	5479.7	5451.3	5433.3	5402.2	5379.0	5361.0	5335.2	5306.7	5283.5	5262.9	5247.4
10°	5505.5	5477.1	5448.7	5409.9	5384.2	5350.5	5324.8	5288.7	5257.7	5229.4	5211.2
12.5°	5508.0	5471.9	5446.0	5402.2	5368.6	5332.5	5304.1	5262.9	5226.7	5198.3	5169.9
15°	5484.8	5451.3	5420.3	5373.8	5340.2	5306.7	5273.2	5229.4	5195.8	5162.2	5141.6
17.5°	5433.3	5402.2	5366.1	5322.2	5291.3	5260.3	5224.2	5188.0	5149.2	5113.1	5087.3
20°	5366.1	5332.5	5301.5	5257.7	5231.9	5198.3	5164.8	5126.1	5095.1	5059.0	5030.6
22.5°	5265.4	5234.4	5206.0	5180.3	5138.9	5113.1	5090.0	5046.1	5015.0	4981.5	4950.6
25°	5120.8	5090.0	5066.7	5035.6	5017.6	4989.2	4966.0	4927.4	4899.0	4867.9	4842.2
27.5°	4883.4	4865.4	4852.4	4834.3	4819.0	4806.0	4793.2	4762.1	4741.5	4713.1	4687.3
30°	4527.2	4524.7	4517.0	4509.1	4519.4	4519.4	4519.4	4514.4	4496.3	4475.6	4457.5
32.5°	4070.4	4075.6	4085.9	4093.7	4114.3	4137.5	4158.1	4168.4	4168.4	4155.5	4147.8
35°	3525.8	3533.5	3549.1	3569.7	3595.5	3623.9	3670.3	3680.7	3688.3	3688.3	3678.0
37.5°	2960.4	2958.0	2973.5	2991.5	3007.0	3027.6	3061.2	3069.0	3081.9	3076.7	3066.3
40°	2410.7	2397.8	2392.7	2397.8	2415.9	2408.1	2415.9	2410.7	2410.7	2392.7	2392.7
42.5°	1902.2	1886.9	1876.4	1868.8	1868.8	1850.5	1837.8	1824.9	1817.1	1804.1	1801.7
45°	1466.2	1448.0	1435.1	1429.8	1422.2	1399.0	1383.4	1368.0	1349.9	1344.8	1347.3
47.5°	1138.3	1120.2	1114.9	1102.2	1089.2	1076.3	1066.0	1047.9	1045.3	1035.0	1045.3
50°	877.5	872.5	864.7	859.5	851.7	841.4	831.1	820.8	815.6	815.6	818.1
52.5°	681.5	683.9	676.2	668.5	663.4	663.4	650.4	647.8	647.8	637.5	647.8
55°	521.4	518.8	521.4	516.2	516.2	508.5	508.5	500.8	500.8	492.9	498.2
57.5°	382.0	387.2	382.0	384.6	389.8	382.0	379.3	371.6	376.9	371.6	374.3
60°	296.8	296.8	296.8	294.3	294.3	291.7	291.7	289.1	289.1	283.8	289.1
62.5°	219.4	222.0	222.0	222.0	224.5	222.0	219.4	222.0	219.4	219.4	222.0
65°	144.6	147.2	147.2	144.6	149.7	144.6	147.2	149.7	152.2	149.7	152.2
67.5°	98.1	98.1	100.7	103.2	100.7	103.2	105.8	103.2	105.8	111.0	105.8
70°	72.2	74.9	74.9	72.2	69.7	72.2	69.7	77.5	77.5	77.5	82.5
72.5°	46.4	46.4	43.8	43.8	43.8	43.8	43.8	51.7	46.4	43.8	49.1
75°	25.8	28.4	28.4	20.6	23.3	28.4	20.6	23.3	31.1	25.8	31.1
77.5°	15.5	15.5	15.5	15.5	15.5	15.5	20.6	18.0	18.0	18.0	20.6
80°	12.9	10.3	10.3	7.7	10.3	10.3	10.3	15.5	12.9	12.9	15.5
82.5°	5.2	5.2	2.6	0.0	5.2	5.2	5.2	5.2	5.2	5.2	10.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	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: P248753

CATALOG NUMBER: LD8B100D010 ER8B100930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1
2.5°	5280.9	5280.9	5278.3	5273.2	5262.9	5262.9	5260.3	5252.6	5247.4	5244.7	5244.7
5°	5255.0	5244.7	5234.4	5206.0	5206.0	5200.9	5185.5	5175.1	5169.9	5157.0	5151.9
7.5°	5231.9	5200.9	5182.8	5164.8	5141.6	5131.2	5113.1	5105.4	5087.3	5074.4	5066.7
10°	5175.1	5154.5	5131.2	5102.8	5084.7	5064.1	5043.4	5028.0	5004.7	4991.8	4981.5
12.5°	5136.4	5105.4	5084.7	5053.7	5022.9	5004.7	4976.3	4958.3	4935.1	4909.2	4893.7
15°	5100.3	5066.7	5038.3	5004.7	4971.2	4950.6	4917.0	4896.4	4862.8	4837.0	4819.0
17.5°	5046.1	5017.6	4986.7	4945.4	4914.5	4888.7	4852.4	4826.7	4795.6	4762.1	4744.1
20°	4989.2	4955.7	4924.8	4883.4	4852.4	4821.5	4785.3	4757.0	4720.8	4689.8	4669.3
22.5°	4914.5	4875.7	4849.9	4808.5	4772.4	4738.9	4705.4	4671.8	4638.2	4612.5	4589.1
25°	4806.0	4764.7	4736.3	4702.7	4669.3	4643.4	4602.2	4581.5	4547.9	4524.7	4501.4
27.5°	4651.1	4620.2	4594.3	4560.8	4532.4	4511.8	4480.7	4460.1	4431.6	4411.1	4393.0
30°	4424.0	4398.2	4374.9	4341.4	4320.8	4302.7	4274.3	4256.2	4235.6	4212.3	4207.2
32.5°	4119.5	4098.7	4075.6	4052.3	4036.8	4026.5	4003.2	3992.9	3972.3	3959.4	3946.5
35°	3660.0	3641.9	3629.0	3618.7	3613.5	3616.1	3611.0	3621.3	3626.4	3623.9	3626.4
37.5°	3058.6	3048.2	3053.5	3061.2	3087.0	3120.6	3151.5	3198.0	3228.9	3260.0	3288.3
40°	2387.5	2395.2	2415.9	2462.3	2529.4	2604.4	2674.0	2761.8	2849.6	2911.5	2968.3
42.5°	1801.7	1824.9	1876.4	1943.6	2044.3	2155.2	2263.6	2392.7	2498.6	2601.7	2674.0
45°	1355.1	1386.0	1453.2	1546.1	1657.1	1786.1	1923.0	2067.5	2193.9	2299.7	2379.8
47.5°	1055.8	1084.1	1151.3	1249.2	1386.0	1520.3	1662.2	1811.9	1943.6	2046.8	2116.6
50°	833.7	869.8	929.2	1032.4	1169.3	1311.2	1458.3	1605.4	1729.4	1817.1	1879.0
52.5°	655.6	689.2	745.9	854.4	993.8	1135.7	1272.4	1417.1	1525.3	1610.7	1651.9
55°	508.5	539.5	598.7	689.2	820.8	960.2	1096.9	1220.9	1321.5	1383.4	1422.2
57.5°	387.2	410.4	451.8	542.0	660.8	789.7	906.0	1029.9	1107.3	1151.3	1176.9
60°	294.3	312.3	356.3	425.9	534.3	645.2	743.3	836.4	898.3	934.4	960.2
62.5°	222.0	242.7	273.5	332.9	415.6	505.9	588.4	658.1	709.8	733.0	751.1
65°	152.2	167.7	191.0	237.4	307.2	371.6	436.2	487.9	521.4	547.3	557.6
67.5°	113.6	123.9	136.9	173.0	222.0	273.5	317.5	353.6	389.8	400.1	418.1
70°	85.2	92.9	105.8	131.6	160.0	196.2	232.4	253.0	278.8	296.8	302.0
72.5°	54.1	56.7	69.7	85.2	108.4	131.6	154.9	173.0	188.4	198.8	203.9
75°	31.1	46.4	46.4	62.0	77.5	87.8	103.2	116.1	123.9	131.6	131.6
77.5°	20.6	28.4	31.1	38.7	46.4	59.4	72.2	80.0	87.8	90.4	90.4
80°	18.0	20.6	20.6	28.4	33.5	43.8	51.7	54.1	59.4	62.0	67.1
82.5°	7.7	10.3	12.9	20.6	23.3	23.3	31.1	33.5	38.7	41.4	41.4
85°	2.6	5.2	5.2	7.7	12.9	15.5	18.0	20.6	23.3	23.3	25.8
87.5°	2.6	2.6	0.0	2.6	5.2	5.2	10.3	10.3	10.3	15.5	15.5
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: P248753

CATALOG NUMBER: LD8B100D010 ER8B100930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1	5286.1
2.5°	5239.7	5242.2	5231.9	5229.4	5224.2	5226.7	5231.9
5°	5144.2	5146.7	5136.4	5126.1	5126.1	5123.4	5126.1
7.5°	5053.7	5056.4	5040.9	5035.6	5025.3	5028.0	5028.0
10°	4963.5	4963.5	4940.2	4937.7	4929.8	4927.4	4927.4
12.5°	4875.7	4867.9	4849.9	4839.6	4844.7	4829.3	4829.3
15°	4798.2	4785.3	4762.1	4754.4	4741.5	4736.3	4736.3
17.5°	4718.2	4708.0	4687.3	4671.8	4656.3	4653.7	4656.3
20°	4640.8	4630.5	4604.6	4594.3	4581.5	4581.5	4576.3
22.5°	4563.4	4553.1	4529.8	4522.1	4504.1	4504.1	4506.6
25°	4483.3	4475.6	4449.8	4444.7	4442.1	4431.6	4436.9
27.5°	4374.9	4369.8	4349.1	4341.4	4331.1	4328.5	4333.7
30°	4176.2	4168.4	4153.1	4145.2	4127.2	4129.8	4134.9
32.5°	3928.4	3918.1	3897.4	3889.6	3874.3	3869.0	3871.6
35°	3618.7	3611.0	3592.9	3592.9	3577.4	3572.2	3577.4
37.5°	3303.8	3311.5	3303.8	3311.5	3303.8	3301.2	3303.8
40°	3007.0	3035.3	3040.5	3069.0	3058.6	3074.0	3071.5
42.5°	2723.0	2769.4	2787.6	2810.8	2805.8	2816.0	2823.8
45°	2436.5	2475.3	2493.3	2508.9	2511.4	2516.6	2519.1
47.5°	2165.5	2196.5	2199.1	2217.1	2214.5	2214.5	2222.4
50°	1912.7	1933.3	1938.3	1951.3	1941.0	1935.9	1938.3
52.5°	1677.7	1698.3	1693.2	1698.3	1685.5	1680.3	1682.8
55°	1437.7	1448.0	1448.0	1448.0	1432.5	1432.5	1432.5
57.5°	1192.4	1195.1	1189.9	1192.4	1189.9	1174.4	1171.8
60°	968.0	968.0	965.3	968.0	960.2	952.4	952.4
62.5°	756.2	761.4	771.7	761.4	756.2	761.4	753.6
65°	565.3	575.6	572.9	578.2	575.6	575.6	570.4
67.5°	425.9	428.4	431.0	433.7	433.7	433.7	433.7
70°	312.3	320.0	317.5	317.5	317.5	317.5	332.9
72.5°	209.1	219.4	216.8	222.0	222.0	227.1	222.0
75°	141.9	152.2	147.2	154.9	152.2	147.2	160.0
77.5°	95.5	100.7	103.2	105.8	103.2	100.7	103.2
80°	67.1	72.2	69.7	72.2	72.2	72.2	74.9
82.5°	41.4	49.1	46.4	49.1	46.4	49.1	49.1
85°	28.4	31.1	25.8	31.1	28.4	28.4	33.5
87.5°	18.0	15.5	15.5	18.0	15.5	18.0	15.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)