

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: P249014

Luminaire Tested: **LD8B100D010 ER8B100850 8LBSW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249014  
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 ER8B100850 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: 10902.0 lumens  
Efficiency: N/A  
Efficacy: 102.6 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

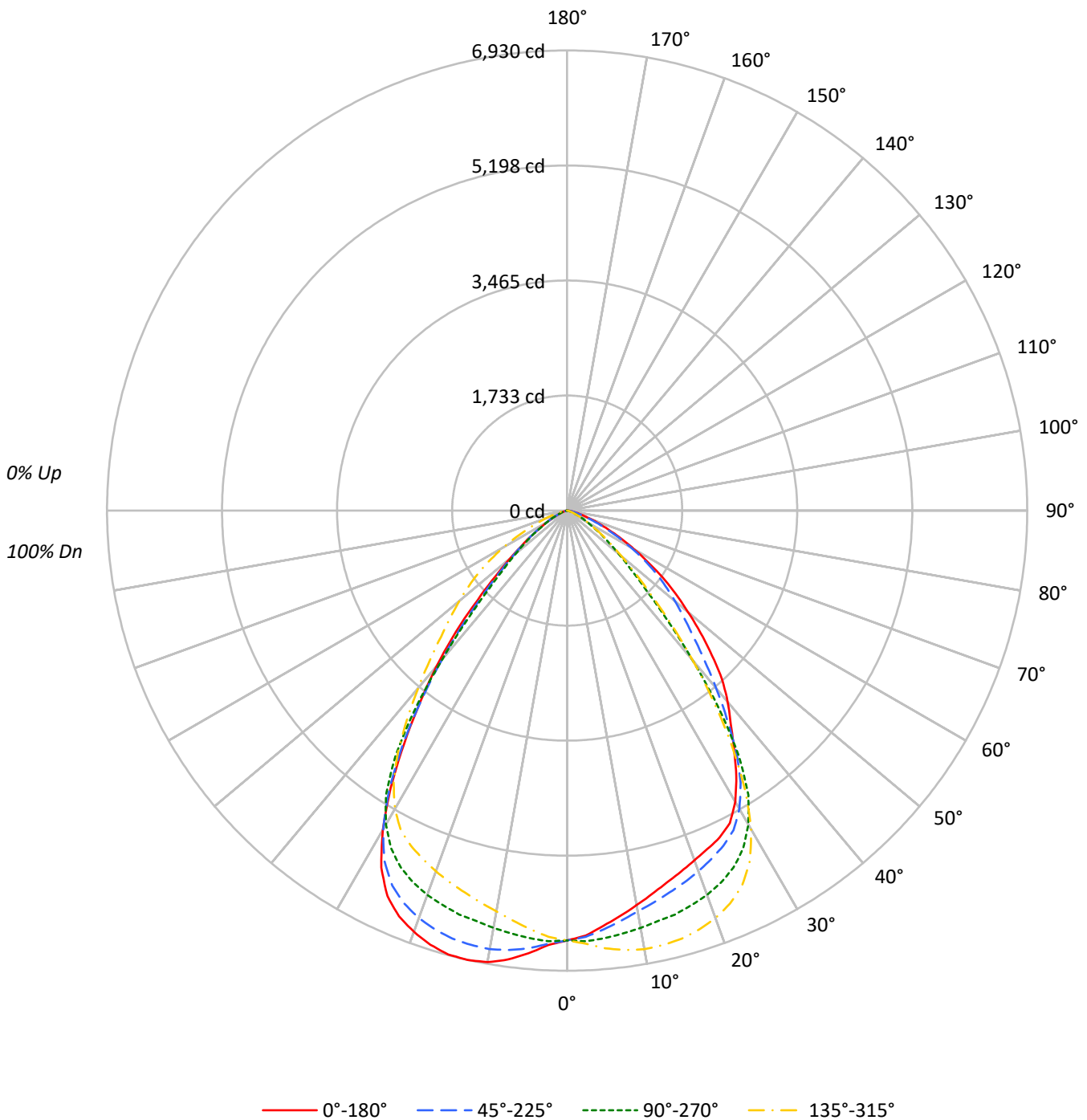
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	199579	199579	199579	199579
5°	194277	200047	207188	200047
10°	188902	199786	216213	199786
15°	185128	200972	220944	200972
20°	183868	202119	221513	202119
25°	184836	201715	217952	201715
30°	180263	194331	197824	194331
35°	164885	169523	160842	169523
40°	151383	117924	123145	117924
45°	134508	71942	83241	71942
50°	113854	48054	53365	48054
55°	94298	32789	34660	32789
60°	71923	21826	22023	21826
65°	50959	13601	12455	13601
70°	36758	9115	8268	9115
75°	23340	4527	3765	4527
80°	16284	3374	2788	3374
85°	14541	0	1097	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	616.0	5.7
10°-20°	1783.9	16.4
20°-30°	2701.2	24.8
30°-40°	2707.3	24.8
40°-50°	1700.0	15.6
50°-60°	905.9	8.3
60°-70°	372.5	3.4
70°-80°	98.4	0.9
80°-90°	16.6	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°	5101.1	46.8
0°-40°	7808.4	71.6
0°-60°	10414.4	95.5
0°-90°	10902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10902.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	6472	6472	6472	6472	6472	
5°	6276	6463	6693	6463	6276	592
15°	5799	6295	6921	6295	5799	1640
25°	5432	5929	6406	5929	5432	2492
35°	4380	4503	4273	4503	4380	2744
45°	3084	1650	1909	1650	3084	2372
55°	1754	610	645	610	1754	1564
65°	698	186	171	186	698	724
75°	196	38	32	38	196	222
85°	41	0	3	0	41	45
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°	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2
2.5°	6405.8	6399.5	6396.3	6402.7	6405.8	6418.4	6415.3	6421.6	6421.6	6424.8	6431.1
5°	6276.3	6273.0	6276.3	6276.3	6288.9	6301.5	6298.4	6307.9	6314.1	6330.0	6336.2
7.5°	6156.2	6156.2	6153.0	6165.6	6172.0	6190.9	6187.7	6203.6	6213.1	6228.8	6250.9
10°	6032.9	6032.9	6036.0	6045.5	6048.8	6077.1	6077.1	6099.2	6111.9	6127.7	6156.2
12.5°	5912.8	5912.8	5931.8	5925.5	5938.1	5960.2	5969.7	5991.8	6010.8	6042.4	6070.9
15°	5799.0	5799.0	5805.4	5821.1	5830.6	5859.1	5874.9	5900.2	5922.3	5953.9	5995.0
17.5°	5701.1	5697.9	5701.1	5720.1	5739.1	5764.3	5776.9	5808.5	5830.6	5871.7	5909.7
20°	5603.1	5609.5	5609.5	5625.2	5637.9	5669.5	5682.1	5716.9	5742.2	5780.0	5824.4
22.5°	5517.8	5514.7	5514.7	5536.8	5546.3	5574.6	5587.2	5618.9	5647.3	5679.0	5720.1
25°	5432.5	5426.1	5438.8	5442.0	5448.2	5479.8	5489.3	5511.4	5539.9	5568.4	5609.5
27.5°	5306.0	5299.8	5302.9	5315.5	5325.0	5350.2	5356.6	5378.7	5400.8	5426.1	5460.9
30°	5062.6	5056.4	5053.3	5075.4	5084.9	5103.7	5113.2	5151.2	5157.5	5186.0	5211.2
32.5°	4740.3	4737.2	4743.6	4762.4	4771.9	4797.3	4809.9	4832.0	4847.8	4863.6	4888.9
35°	4380.1	4373.8	4380.1	4399.1	4399.1	4421.2	4430.7	4440.1	4437.0	4440.1	4433.8
37.5°	4045.2	4041.9	4045.2	4054.5	4045.2	4054.5	4045.2	4026.2	3991.5	3953.5	3915.5
40°	3760.7	3763.8	3745.0	3757.6	3722.7	3716.5	3681.7	3634.3	3564.8	3489.0	3381.5
42.5°	3457.3	3447.9	3435.2	3441.5	3413.1	3390.9	3334.0	3274.1	3185.5	3059.2	2929.5
45°	3084.4	3081.3	3074.9	3071.8	3052.8	3030.7	2983.2	2913.8	2815.8	2686.2	2531.3
47.5°	2721.0	2711.5	2711.5	2714.6	2692.5	2689.4	2651.4	2591.4	2506.1	2379.7	2218.5
50°	2373.3	2370.2	2376.5	2389.1	2373.3	2367.0	2341.8	2300.7	2224.9	2117.4	1965.6
52.5°	2060.4	2057.3	2063.7	2079.4	2073.1	2079.4	2054.2	2022.6	1972.0	1867.7	1735.0
55°	1754.0	1754.0	1754.0	1772.8	1772.8	1772.8	1760.2	1741.4	1693.9	1618.0	1494.9
57.5°	1434.8	1437.9	1456.9	1460.0	1456.9	1463.2	1460.0	1441.0	1409.5	1355.8	1261.0
60°	1166.2	1166.2	1175.6	1185.1	1181.9	1185.1	1185.1	1175.6	1144.0	1099.8	1024.0
62.5°	922.8	932.3	925.9	932.3	944.9	932.3	925.9	919.7	897.5	869.1	805.8
65°	698.4	704.8	704.8	707.9	701.5	704.8	692.1	682.7	670.0	638.4	597.3
67.5°	531.0	531.0	531.0	531.0	527.7	524.6	521.5	512.0	489.9	477.3	432.9
70°	407.7	388.7	388.7	388.7	388.7	391.9	382.4	369.8	363.4	341.3	309.7
72.5°	271.7	278.1	271.7	271.7	265.5	268.6	256.0	249.6	243.4	230.8	211.8
75°	195.9	180.2	186.4	189.7	180.2	186.4	173.8	161.2	161.2	151.7	142.2
77.5°	126.4	123.3	126.4	129.6	126.4	123.3	116.9	110.6	110.6	107.4	97.9
80°	91.7	88.5	88.5	88.5	85.3	88.5	82.2	82.2	75.8	72.7	66.3
82.5°	60.1	60.1	56.8	60.1	56.8	60.1	50.6	50.6	50.6	47.3	41.1
85°	41.1	34.7	34.7	38.0	31.6	38.0	34.7	31.6	28.5	28.5	25.2
87.5°	19.0	22.1	19.0	22.1	19.0	19.0	22.1	19.0	19.0	12.6	12.6
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°	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2
2.5°	6440.6	6443.7	6443.7	6456.4	6462.7	6465.8	6465.8	6491.2	6481.7	6488.0	6494.3
5°	6349.0	6367.8	6374.2	6374.2	6409.0	6421.6	6434.2	6462.7	6465.8	6484.8	6506.9
7.5°	6260.4	6282.5	6295.3	6323.6	6345.7	6367.8	6405.8	6424.8	6443.7	6469.1	6497.4
10°	6175.1	6200.4	6225.7	6247.8	6282.5	6311.0	6336.2	6380.5	6402.7	6437.4	6475.3
12.5°	6093.0	6127.7	6149.8	6187.7	6225.7	6250.9	6288.9	6330.0	6364.7	6399.5	6443.7
15°	6020.3	6061.4	6086.6	6127.7	6168.8	6203.6	6244.7	6295.3	6320.5	6361.6	6402.7
17.5°	5941.2	5985.5	6017.2	6055.0	6105.6	6143.5	6178.3	6228.8	6260.4	6304.6	6352.1
20°	5859.1	5903.3	5941.2	5979.2	6029.8	6067.6	6108.7	6159.3	6194.1	6238.3	6276.3
22.5°	5761.2	5802.3	5843.2	5887.5	5938.1	5969.7	6017.2	6061.4	6099.2	6140.3	6178.3
25°	5634.7	5685.3	5716.9	5757.9	5799.0	5833.7	5884.3	5928.6	5960.2	5998.2	6032.9
27.5°	5486.2	5524.2	5549.4	5584.1	5625.2	5656.8	5694.7	5739.1	5770.7	5805.4	5830.6
30°	5233.3	5268.2	5290.3	5315.5	5356.6	5385.1	5416.7	5457.7	5479.8	5505.2	5527.3
32.5°	4901.5	4930.0	4942.6	4961.6	4990.1	5018.4	5043.8	5078.5	5088.0	5103.7	5103.7
35°	4421.2	4427.5	4424.4	4430.7	4443.3	4459.1	4481.2	4503.3	4515.9	4515.9	4506.6
37.5°	3858.6	3820.8	3779.7	3748.1	3738.6	3732.2	3745.0	3754.3	3767.1	3773.3	3757.6
40°	3274.1	3188.7	3097.0	3014.8	2958.0	2932.7	2923.2	2929.5	2929.5	2951.6	2951.6
42.5°	2771.6	2638.8	2503.0	2379.7	2297.4	2234.4	2205.9	2205.9	2209.0	2224.9	2234.4
45°	2354.4	2186.9	2028.8	1893.0	1779.2	1697.0	1659.1	1649.7	1646.5	1652.8	1674.9
47.5°	2035.2	1861.4	1697.0	1529.6	1409.5	1327.3	1292.6	1279.8	1267.2	1279.8	1283.1
50°	1785.6	1605.4	1431.6	1264.1	1137.7	1065.0	1020.7	1001.7	998.6	998.6	1005.0
52.5°	1557.9	1390.5	1216.8	1046.1	913.3	843.8	802.7	793.2	780.6	793.2	793.2
55°	1343.1	1175.6	1005.0	843.8	733.1	660.5	622.6	609.9	603.6	613.1	613.1
57.5°	1109.3	967.0	809.1	663.7	553.1	502.5	474.0	458.3	455.0	461.4	455.0
60°	910.2	790.1	654.2	521.5	436.2	382.4	360.3	353.9	347.6	353.9	353.9
62.5°	720.5	619.4	508.7	407.7	335.0	297.1	271.7	271.7	268.6	268.6	271.7
65°	534.1	455.0	376.1	290.7	233.9	205.4	186.4	186.4	183.3	186.4	183.3
67.5°	388.7	335.0	271.7	211.8	167.5	151.7	139.1	129.6	135.9	129.6	126.4
70°	284.5	240.1	195.9	161.2	129.6	113.8	104.3	101.1	94.8	94.8	94.8
72.5°	189.7	161.2	132.7	104.3	85.3	69.5	66.3	60.1	53.7	56.8	63.2
75°	126.4	107.4	94.8	75.8	56.8	56.8	38.0	38.0	31.6	38.0	28.5
77.5°	88.5	72.7	56.8	47.3	38.0	34.7	25.2	25.2	22.1	22.1	22.1
80°	63.2	53.7	41.1	34.7	25.2	25.2	22.1	19.0	15.7	15.7	19.0
82.5°	38.0	28.5	28.5	25.2	15.7	12.6	9.5	12.6	6.4	6.4	6.4
85°	22.1	19.0	15.7	9.5	6.4	6.4	3.1	0.0	3.1	3.1	0.0
87.5°	12.6	6.4	6.4	3.1	0.0	3.1	3.1	0.0	0.0	0.0	6.4
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°	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2
2.5°	6510.2	6506.9	6513.3	6513.3	6532.3	6529.0	6538.5	6538.5	6532.3	6535.4	6548.0
5°	6532.3	6541.8	6560.6	6576.5	6604.9	6617.6	6633.3	6649.2	6652.3	6661.8	6671.3
7.5°	6532.3	6563.9	6586.0	6614.3	6652.3	6674.4	6709.2	6737.7	6750.3	6766.0	6785.0
10°	6519.5	6551.1	6592.2	6623.8	6671.3	6706.1	6740.8	6785.0	6804.0	6829.2	6854.6
12.5°	6494.3	6529.0	6573.2	6614.3	6668.1	6699.7	6743.9	6785.0	6813.5	6848.2	6876.7
15°	6456.4	6497.4	6538.5	6579.6	6636.5	6674.4	6715.5	6762.9	6791.4	6829.2	6854.6
17.5°	6396.3	6440.6	6478.5	6516.4	6570.1	6614.3	6652.3	6696.6	6725.0	6756.7	6791.4
20°	6323.6	6364.7	6405.8	6437.4	6491.2	6529.0	6570.1	6611.2	6633.3	6639.7	6693.4
22.5°	6232.0	6260.4	6292.0	6342.6	6374.2	6409.0	6446.9	6484.8	6506.9	6541.8	6560.6
25°	6080.2	6108.7	6143.5	6165.6	6203.6	6232.0	6269.9	6311.0	6323.6	6349.0	6367.8
27.5°	5868.6	5884.3	5900.2	5919.1	5941.2	5957.1	5979.2	5998.2	6010.8	6023.4	6036.0
30°	5533.5	5533.5	5533.5	5520.9	5530.4	5539.9	5543.0	5539.9	5539.9	5536.8	5536.8
32.5°	5091.1	5065.9	5037.4	5012.2	5002.7	4990.1	4983.7	4974.2	4958.5	4949.0	4952.1
35°	4493.8	4437.0	4402.2	4370.6	4345.4	4326.4	4316.9	4307.4	4304.3	4291.7	4278.9
37.5°	3748.1	3707.0	3681.7	3662.7	3640.6	3621.6	3624.8	3628.0	3637.4	3631.1	3634.3
40°	2958.0	2948.5	2958.0	2935.9	2929.5	2935.9	2951.6	2973.8	2986.5	2999.1	3021.2
42.5°	2250.1	2265.8	2288.1	2288.1	2297.4	2310.2	2329.1	2363.9	2382.8	2404.9	2430.3
45°	1693.9	1712.9	1741.4	1750.7	1757.1	1772.8	1795.1	1823.4	1836.1	1855.0	1877.2
47.5°	1305.2	1317.8	1333.6	1349.4	1365.2	1371.5	1393.7	1393.7	1409.5	1422.1	1428.4
50°	1017.6	1030.2	1042.8	1052.3	1058.7	1068.2	1074.4	1083.9	1087.1	1093.4	1096.6
52.5°	796.3	812.2	812.2	818.5	827.9	837.4	834.3	837.4	840.6	840.6	850.1
55°	622.6	622.6	632.1	632.1	638.4	635.2	638.4	638.4	638.4	638.4	641.5
57.5°	464.5	467.8	477.3	470.9	467.8	474.0	467.8	474.0	470.9	477.3	467.8
60°	357.1	357.1	360.3	360.3	363.4	363.4	363.4	360.3	360.3	357.1	357.1
62.5°	268.6	271.7	275.0	271.7	271.7	271.7	268.6	268.6	265.5	262.2	262.2
65°	180.2	177.0	183.3	177.0	180.2	180.2	177.0	180.2	170.7	173.8	170.7
67.5°	129.6	126.4	123.3	126.4	123.3	120.1	120.1	123.3	126.4	116.9	116.9
70°	85.3	88.5	85.3	88.5	91.7	91.7	88.5	85.3	88.5	82.2	85.3
72.5°	53.7	53.7	53.7	53.7	53.7	56.8	56.8	56.8	50.6	50.6	47.3
75°	25.2	34.7	28.5	25.2	34.7	34.7	31.6	31.6	28.5	28.5	28.5
77.5°	25.2	19.0	19.0	19.0	19.0	19.0	19.0	19.0	15.7	19.0	15.7
80°	12.6	12.6	12.6	9.5	12.6	12.6	15.7	12.6	12.6	9.5	15.7
82.5°	6.4	6.4	6.4	0.0	3.1	6.4	6.4	3.1	6.4	6.4	3.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P249014

CATALOG NUMBER: LD8B100D010 ER8B100850 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2
2.5°	6544.9	6541.8	6544.9	6548.0	6544.9	6541.8	6544.9	6548.0	6535.4	6532.3	6538.5
5°	6683.9	6683.9	6690.2	6693.4	6690.2	6683.9	6683.9	6671.3	6661.8	6652.3	6649.2
7.5°	6804.0	6810.4	6816.6	6819.7	6816.6	6810.4	6804.0	6785.0	6766.0	6750.3	6737.7
10°	6876.7	6886.2	6898.8	6905.1	6898.8	6886.2	6876.7	6854.6	6829.2	6804.0	6785.0
12.5°	6908.3	6917.8	6933.6	6930.4	6933.6	6917.8	6908.3	6876.7	6848.2	6813.5	6785.0
15°	6886.2	6898.8	6914.6	6920.9	6914.6	6898.8	6886.2	6854.6	6829.2	6791.4	6762.9
17.5°	6816.6	6835.6	6845.1	6854.6	6845.1	6835.6	6816.6	6791.4	6756.7	6725.0	6696.6
20°	6721.8	6734.5	6747.2	6750.3	6747.2	6734.5	6721.8	6693.4	6639.7	6633.3	6611.2
22.5°	6586.0	6595.5	6623.8	6614.3	6623.8	6595.5	6586.0	6560.6	6541.8	6506.9	6484.8
25°	6390.0	6399.5	6402.7	6405.8	6402.7	6399.5	6390.0	6367.8	6349.0	6323.6	6311.0
27.5°	6051.9	6051.9	6058.1	6061.4	6058.1	6051.9	6051.9	6036.0	6023.4	6010.8	5998.2
30°	5539.9	5539.9	5539.9	5555.8	5539.9	5539.9	5539.9	5536.8	5536.8	5539.9	5539.9
32.5°	4949.0	4942.6	4936.3	4942.6	4936.3	4942.6	4949.0	4952.1	4949.0	4958.5	4974.2
35°	4278.9	4275.8	4285.3	4272.7	4285.3	4275.8	4278.9	4278.9	4291.7	4304.3	4307.4
37.5°	3637.4	3631.1	3643.8	3631.1	3643.8	3631.1	3637.4	3634.3	3631.1	3637.4	3628.0
40°	3027.6	3033.8	3033.8	3059.2	3033.8	3033.8	3027.6	3021.2	2999.1	2986.5	2973.8
42.5°	2442.9	2461.9	2455.5	2474.5	2455.5	2461.9	2442.9	2430.3	2404.9	2382.8	2363.9
45°	1889.8	1902.5	1902.5	1908.8	1902.5	1902.5	1889.8	1877.2	1855.0	1836.1	1823.4
47.5°	1450.5	1450.5	1450.5	1453.8	1450.5	1450.5	1450.5	1428.4	1422.1	1409.5	1393.7
50°	1102.9	1106.1	1109.3	1112.4	1109.3	1106.1	1102.9	1096.6	1093.4	1087.1	1083.9
52.5°	846.9	850.1	843.8	850.1	843.8	850.1	846.9	850.1	840.6	840.6	837.4
55°	641.5	638.4	641.5	644.7	641.5	638.4	641.5	641.5	638.4	638.4	638.4
57.5°	470.9	464.5	464.5	464.5	464.5	464.5	470.9	467.8	477.3	470.9	474.0
60°	350.8	353.9	353.9	357.1	353.9	353.9	350.8	357.1	357.1	360.3	360.3
62.5°	259.1	268.6	262.2	268.6	262.2	268.6	259.1	262.2	262.2	265.5	268.6
65°	167.5	167.5	167.5	170.7	167.5	167.5	167.5	170.7	173.8	170.7	180.2
67.5°	113.8	116.9	123.3	120.1	123.3	116.9	113.8	116.9	116.9	126.4	123.3
70°	91.7	82.2	82.2	91.7	82.2	82.2	91.7	85.3	82.2	88.5	85.3
72.5°	53.7	47.3	53.7	53.7	53.7	47.3	53.7	47.3	50.6	50.6	56.8
75°	28.5	25.2	22.1	31.6	22.1	25.2	28.5	28.5	28.5	28.5	31.6
77.5°	19.0	15.7	22.1	22.1	22.1	15.7	19.0	15.7	19.0	15.7	19.0
80°	9.5	12.6	9.5	15.7	9.5	12.6	9.5	15.7	9.5	12.6	12.6
82.5°	3.1	6.4	6.4	6.4	6.4	6.4	3.1	3.1	6.4	6.4	3.1
85°	0.0	6.4	3.1	3.1	3.1	6.4	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	0.0	0.0	3.1	0.0	0.0	3.1	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P249014

CATALOG NUMBER: LD8B100D010 ER8B100850 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2
2.5°	6538.5	6529.0	6532.3	6513.3	6513.3	6506.9	6510.2	6494.3	6488.0	6481.7	6491.2
5°	6633.3	6617.6	6604.9	6576.5	6560.6	6541.8	6532.3	6506.9	6484.8	6465.8	6462.7
7.5°	6709.2	6674.4	6652.3	6614.3	6586.0	6563.9	6532.3	6497.4	6469.1	6443.7	6424.8
10°	6740.8	6706.1	6671.3	6623.8	6592.2	6551.1	6519.5	6475.3	6437.4	6402.7	6380.5
12.5°	6743.9	6699.7	6668.1	6614.3	6573.2	6529.0	6494.3	6443.7	6399.5	6364.7	6330.0
15°	6715.5	6674.4	6636.5	6579.6	6538.5	6497.4	6456.4	6402.7	6361.6	6320.5	6295.3
17.5°	6652.3	6614.3	6570.1	6516.4	6478.5	6440.6	6396.3	6352.1	6304.6	6260.4	6228.8
20°	6570.1	6529.0	6491.2	6437.4	6405.8	6364.7	6323.6	6276.3	6238.3	6194.1	6159.3
22.5°	6446.9	6409.0	6374.2	6342.6	6292.0	6260.4	6232.0	6178.3	6140.3	6099.2	6061.4
25°	6269.9	6232.0	6203.6	6165.6	6143.5	6108.7	6080.2	6032.9	5998.2	5960.2	5928.6
27.5°	5979.2	5957.1	5941.2	5919.1	5900.2	5884.3	5868.6	5830.6	5805.4	5770.7	5739.1
30°	5543.0	5539.9	5530.4	5520.9	5533.5	5533.5	5533.5	5527.3	5505.2	5479.8	5457.7
32.5°	4983.7	4990.1	5002.7	5012.2	5037.4	5065.9	5091.1	5103.7	5103.7	5088.0	5078.5
35°	4316.9	4326.4	4345.4	4370.6	4402.2	4437.0	4493.8	4506.6	4515.9	4515.9	4503.3
37.5°	3624.8	3621.6	3640.6	3662.7	3681.7	3707.0	3748.1	3757.6	3773.3	3767.1	3754.3
40°	2951.6	2935.9	2929.5	2935.9	2958.0	2948.5	2958.0	2951.6	2951.6	2929.5	2929.5
42.5°	2329.1	2310.2	2297.4	2288.1	2288.1	2265.8	2250.1	2234.4	2224.9	2209.0	2205.9
45°	1795.1	1772.8	1757.1	1750.7	1741.4	1712.9	1693.9	1674.9	1652.8	1646.5	1649.7
47.5°	1393.7	1371.5	1365.2	1349.4	1333.6	1317.8	1305.2	1283.1	1279.8	1267.2	1279.8
50°	1074.4	1068.2	1058.7	1052.3	1042.8	1030.2	1017.6	1005.0	998.6	998.6	1001.7
52.5°	834.3	837.4	827.9	818.5	812.2	812.2	796.3	793.2	793.2	780.6	793.2
55°	638.4	635.2	638.4	632.1	632.1	622.6	622.6	613.1	613.1	603.6	609.9
57.5°	467.8	474.0	467.8	470.9	477.3	467.8	464.5	455.0	461.4	455.0	458.3
60°	363.4	363.4	363.4	360.3	360.3	357.1	357.1	353.9	353.9	347.6	353.9
62.5°	268.6	271.7	271.7	271.7	275.0	271.7	268.6	271.7	268.6	268.6	271.7
65°	177.0	180.2	180.2	177.0	183.3	177.0	180.2	183.3	186.4	183.3	186.4
67.5°	120.1	120.1	123.3	126.4	123.3	126.4	129.6	126.4	129.6	135.9	129.6
70°	88.5	91.7	91.7	88.5	85.3	88.5	85.3	94.8	94.8	94.8	101.1
72.5°	56.8	56.8	53.7	53.7	53.7	53.7	53.7	63.2	56.8	53.7	60.1
75°	31.6	34.7	34.7	25.2	28.5	34.7	25.2	28.5	38.0	31.6	38.0
77.5°	19.0	19.0	19.0	19.0	19.0	19.0	25.2	22.1	22.1	22.1	25.2
80°	15.7	12.6	12.6	9.5	12.6	12.6	12.6	19.0	15.7	15.7	19.0
82.5°	6.4	6.4	3.1	0.0	6.4	6.4	6.4	6.4	6.4	6.4	12.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	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: P249014

CATALOG NUMBER: LD8B100D010 ER8B100850 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2
2.5°	6465.8	6465.8	6462.7	6456.4	6443.7	6443.7	6440.6	6431.1	6424.8	6421.6	6421.6
5°	6434.2	6421.6	6409.0	6374.2	6374.2	6367.8	6349.0	6336.2	6330.0	6314.1	6307.9
7.5°	6405.8	6367.8	6345.7	6323.6	6295.3	6282.5	6260.4	6250.9	6228.8	6213.1	6203.6
10°	6336.2	6311.0	6282.5	6247.8	6225.7	6200.4	6175.1	6156.2	6127.7	6111.9	6099.2
12.5°	6288.9	6250.9	6225.7	6187.7	6149.8	6127.7	6093.0	6070.9	6042.4	6010.8	5991.8
15°	6244.7	6203.6	6168.8	6127.7	6086.6	6061.4	6020.3	5995.0	5953.9	5922.3	5900.2
17.5°	6178.3	6143.5	6105.6	6055.0	6017.2	5985.5	5941.2	5909.7	5871.7	5830.6	5808.5
20°	6108.7	6067.6	6029.8	5979.2	5941.2	5903.3	5859.1	5824.4	5780.0	5742.2	5716.9
22.5°	6017.2	5969.7	5938.1	5887.5	5843.2	5802.3	5761.2	5720.1	5679.0	5647.3	5618.9
25°	5884.3	5833.7	5799.0	5757.9	5716.9	5685.3	5634.7	5609.5	5568.4	5539.9	5511.4
27.5°	5694.7	5656.8	5625.2	5584.1	5549.4	5524.2	5486.2	5460.9	5426.1	5400.8	5378.7
30°	5416.7	5385.1	5356.6	5315.5	5290.3	5268.2	5233.3	5211.2	5186.0	5157.5	5151.2
32.5°	5043.8	5018.4	4990.1	4961.6	4942.6	4930.0	4901.5	4888.9	4863.6	4847.8	4832.0
35°	4481.2	4459.1	4443.3	4430.7	4424.4	4427.5	4421.2	4433.8	4440.1	4437.0	4440.1
37.5°	3745.0	3732.2	3738.6	3748.1	3779.7	3820.8	3858.6	3915.5	3953.5	3991.5	4026.2
40°	2923.2	2932.7	2958.0	3014.8	3097.0	3188.7	3274.1	3381.5	3489.0	3564.8	3634.3
42.5°	2205.9	2234.4	2297.4	2379.7	2503.0	2638.8	2771.6	2929.5	3059.2	3185.5	3274.1
45°	1659.1	1697.0	1779.2	1893.0	2028.8	2186.9	2354.4	2531.3	2686.2	2815.8	2913.8
47.5°	1292.6	1327.3	1409.5	1529.6	1697.0	1861.4	2035.2	2218.5	2379.7	2506.1	2591.4
50°	1020.7	1065.0	1137.7	1264.1	1431.6	1605.4	1785.6	1965.6	2117.4	2224.9	2300.7
52.5°	802.7	843.8	913.3	1046.1	1216.8	1390.5	1557.9	1735.0	1867.7	1972.0	2022.6
55°	622.6	660.5	733.1	843.8	1005.0	1175.6	1343.1	1494.9	1618.0	1693.9	1741.4
57.5°	474.0	502.5	553.1	663.7	809.1	967.0	1109.3	1261.0	1355.8	1409.5	1441.0
60°	360.3	382.4	436.2	521.5	654.2	790.1	910.2	1024.0	1099.8	1144.0	1175.6
62.5°	271.7	297.1	335.0	407.7	508.7	619.4	720.5	805.8	869.1	897.5	919.7
65°	186.4	205.4	233.9	290.7	376.1	455.0	534.1	597.3	638.4	670.0	682.7
67.5°	139.1	151.7	167.5	211.8	271.7	335.0	388.7	432.9	477.3	489.9	512.0
70°	104.3	113.8	129.6	161.2	195.9	240.1	284.5	309.7	341.3	363.4	369.8
72.5°	66.3	69.5	85.3	104.3	132.7	161.2	189.7	211.8	230.8	243.4	249.6
75°	38.0	56.8	56.8	75.8	94.8	107.4	126.4	142.2	151.7	161.2	161.2
77.5°	25.2	34.7	38.0	47.3	56.8	72.7	88.5	97.9	107.4	110.6	110.6
80°	22.1	25.2	25.2	34.7	41.1	53.7	63.2	66.3	72.7	75.8	82.2
82.5°	9.5	12.6	15.7	25.2	28.5	28.5	38.0	41.1	47.3	50.6	50.6
85°	3.1	6.4	6.4	9.5	15.7	19.0	22.1	25.2	28.5	28.5	31.6
87.5°	3.1	3.1	0.0	3.1	6.4	6.4	12.6	12.6	12.6	19.0	19.0
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: P249014

CATALOG NUMBER: LD8B100D010 ER8B100850 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2
2.5°	6415.3	6418.4	6405.8	6402.7	6396.3	6399.5	6405.8
5°	6298.4	6301.5	6288.9	6276.3	6276.3	6273.0	6276.3
7.5°	6187.7	6190.9	6172.0	6165.6	6153.0	6156.2	6156.2
10°	6077.1	6077.1	6048.8	6045.5	6036.0	6032.9	6032.9
12.5°	5969.7	5960.2	5938.1	5925.5	5931.8	5912.8	5912.8
15°	5874.9	5859.1	5830.6	5821.1	5805.4	5799.0	5799.0
17.5°	5776.9	5764.3	5739.1	5720.1	5701.1	5697.9	5701.1
20°	5682.1	5669.5	5637.9	5625.2	5609.5	5609.5	5603.1
22.5°	5587.2	5574.6	5546.3	5536.8	5514.7	5514.7	5517.8
25°	5489.3	5479.8	5448.2	5442.0	5438.8	5426.1	5432.5
27.5°	5356.6	5350.2	5325.0	5315.5	5302.9	5299.8	5306.0
30°	5113.2	5103.7	5084.9	5075.4	5053.3	5056.4	5062.6
32.5°	4809.9	4797.3	4771.9	4762.4	4743.6	4737.2	4740.3
35°	4430.7	4421.2	4399.1	4399.1	4380.1	4373.8	4380.1
37.5°	4045.2	4054.5	4045.2	4054.5	4045.2	4041.9	4045.2
40°	3681.7	3716.5	3722.7	3757.6	3745.0	3763.8	3760.7
42.5°	3334.0	3390.9	3413.1	3441.5	3435.2	3447.9	3457.3
45°	2983.2	3030.7	3052.8	3071.8	3074.9	3081.3	3084.4
47.5°	2651.4	2689.4	2692.5	2714.6	2711.5	2711.5	2721.0
50°	2341.8	2367.0	2373.3	2389.1	2376.5	2370.2	2373.3
52.5°	2054.2	2079.4	2073.1	2079.4	2063.7	2057.3	2060.4
55°	1760.2	1772.8	1772.8	1772.8	1754.0	1754.0	1754.0
57.5°	1460.0	1463.2	1456.9	1460.0	1456.9	1437.9	1434.8
60°	1185.1	1185.1	1181.9	1185.1	1175.6	1166.2	1166.2
62.5°	925.9	932.3	944.9	932.3	925.9	932.3	922.8
65°	692.1	704.8	701.5	707.9	704.8	704.8	698.4
67.5°	521.5	524.6	527.7	531.0	531.0	531.0	531.0
70°	382.4	391.9	388.7	388.7	388.7	388.7	407.7
72.5°	256.0	268.6	265.5	271.7	271.7	278.1	271.7
75°	173.8	186.4	180.2	189.7	186.4	180.2	195.9
77.5°	116.9	123.3	126.4	129.6	126.4	123.3	126.4
80°	82.2	88.5	85.3	88.5	88.5	88.5	91.7
82.5°	50.6	60.1	56.8	60.1	56.8	60.1	60.1
85°	34.7	38.0	31.6	38.0	34.7	34.7	41.1
87.5°	22.1	19.0	19.0	22.1	19.0	22.1	19.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)