

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: P249050

Luminaire Tested: **LD8B100D010 ER8B100940 8LBSW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249050  
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 ER8B100940 8LBSW0MW  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9587.0 lumens  
Efficiency: N/A  
Efficacy: 90.2 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

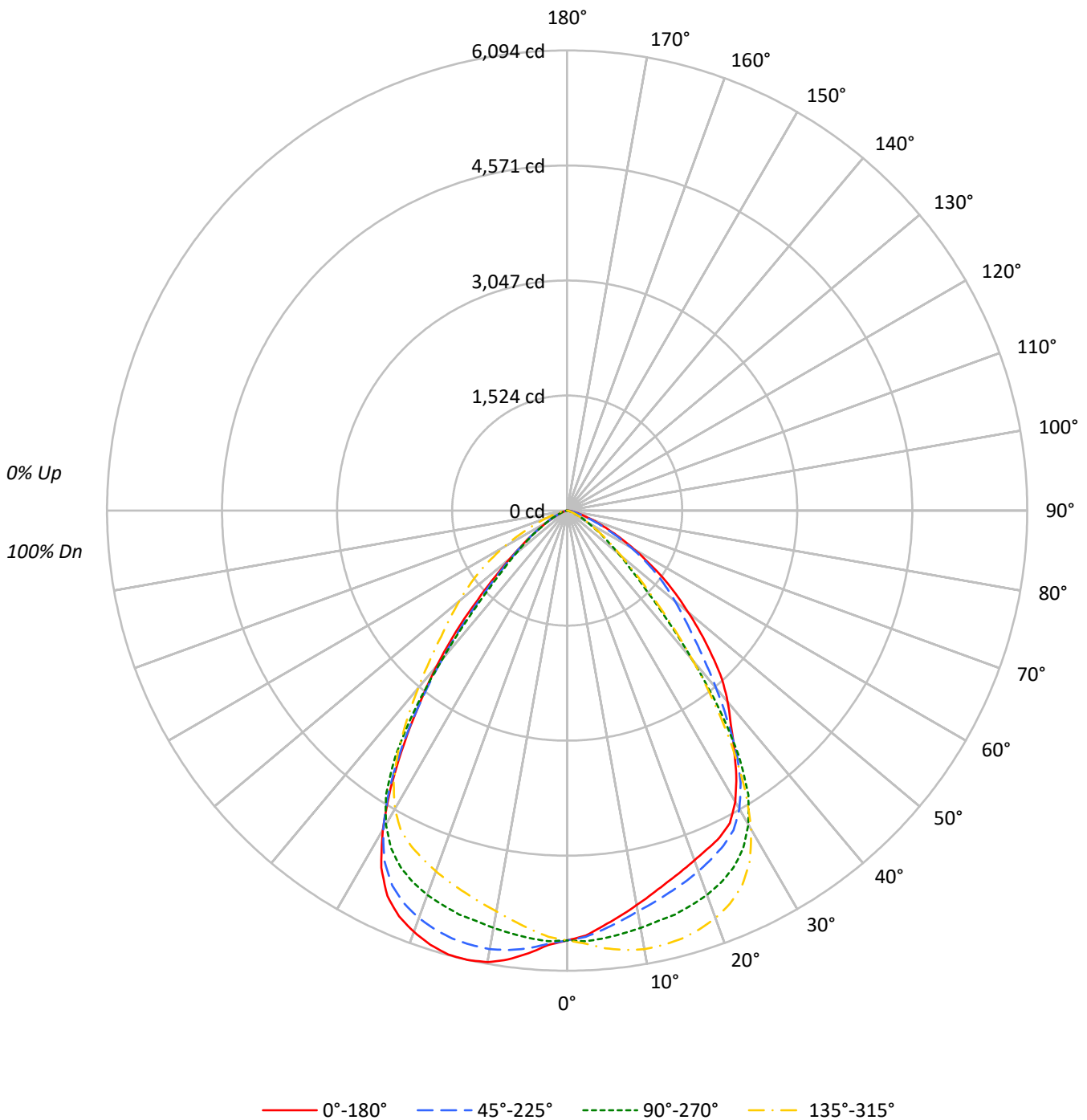
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	175505	175505	175505	175505
5°	170842	175915	182199	175915
10°	166116	175689	190133	175689
15°	162797	176729	194293	176729
20°	161691	177741	194795	177741
25°	162540	177385	191665	177385
30°	158521	170891	173960	170891
35°	144998	149075	141441	149075
40°	133124	103698	108291	103698
45°	118285	63264	73198	63264
50°	100119	42259	46927	42259
55°	82922	28838	30477	28838
60°	63245	19199	19365	19199
65°	44815	11959	10952	11959
70°	32322	8015	7267	8015
75°	20528	3979	3312	3979
80°	14313	2966	2451	2966
85°	12772	0	955	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	541.7	5.7
10°-20°	1568.7	16.4
20°-30°	2375.4	24.8
30°-40°	2380.7	24.8
40°-50°	1495.0	15.6
50°-60°	796.7	8.3
60°-70°	327.6	3.4
70°-80°	86.5	0.9
80°-90°	14.6	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°	4485.8	46.8
0°-40°	6866.6	71.6
0°-60°	9158.2	95.5
0°-90°	9587.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9587.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	5692	5692	5692	5692	5692	
5°	5519	5683	5886	5683	5519	520
15°	5100	5536	6086	5536	5100	1442
25°	4777	5214	5633	5214	4777	2191
35°	3852	3960	3757	3960	3852	2413
45°	2712	1451	1678	1451	2712	2086
55°	1542	536	567	536	1542	1375
65°	614	164	150	164	614	637
75°	172	33	28	33	172	195
85°	36	0	3	0	36	40
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°	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5
2.5°	5633.2	5627.6	5624.8	5630.4	5633.2	5644.3	5641.5	5647.0	5647.0	5649.9	5655.4
5°	5519.2	5516.4	5519.2	5519.2	5530.3	5541.4	5538.7	5547.0	5552.5	5566.5	5572.0
7.5°	5413.6	5413.6	5410.8	5421.9	5427.5	5444.2	5441.3	5455.3	5463.6	5477.5	5496.9
10°	5305.2	5305.2	5308.0	5316.3	5319.2	5344.1	5344.1	5363.5	5374.6	5388.6	5413.6
12.5°	5199.6	5199.6	5216.3	5210.7	5221.8	5241.3	5249.6	5269.1	5285.8	5313.6	5338.6
15°	5099.5	5099.5	5105.1	5119.0	5127.3	5152.4	5166.2	5188.5	5208.0	5235.8	5271.9
17.5°	5013.4	5010.7	5013.4	5030.1	5046.8	5069.0	5080.1	5107.9	5127.3	5163.5	5196.9
20°	4927.3	4932.9	4932.9	4946.7	4957.8	4985.6	4996.7	5027.4	5049.6	5082.8	5121.8
22.5°	4852.2	4849.5	4849.5	4868.9	4877.3	4902.2	4913.3	4941.1	4966.2	4994.0	5030.1
25°	4777.2	4771.6	4782.8	4785.5	4791.0	4818.8	4827.2	4846.6	4871.7	4896.7	4932.9
27.5°	4666.0	4660.5	4663.3	4674.4	4682.7	4704.9	4710.5	4730.0	4749.4	4771.6	4802.2
30°	4452.0	4446.5	4443.8	4463.2	4471.5	4488.1	4496.5	4529.9	4535.4	4560.4	4582.6
32.5°	4168.5	4165.8	4171.4	4188.0	4196.3	4218.6	4229.7	4249.2	4263.0	4277.0	4299.2
35°	3851.8	3846.2	3851.8	3868.5	3868.5	3887.9	3896.3	3904.5	3901.8	3904.5	3899.0
37.5°	3557.2	3554.4	3557.2	3565.5	3557.2	3565.5	3557.2	3540.5	3510.0	3476.6	3443.2
40°	3307.1	3309.8	3293.2	3304.3	3273.7	3268.2	3237.6	3195.9	3134.8	3068.1	2973.6
42.5°	3040.3	3032.0	3020.9	3026.4	3001.4	2981.9	2931.9	2879.2	2801.3	2690.2	2576.1
45°	2712.4	2709.6	2704.0	2701.3	2684.6	2665.1	2623.4	2562.3	2476.2	2362.2	2226.0
47.5°	2392.8	2384.4	2384.4	2387.2	2367.7	2365.0	2331.6	2278.8	2203.8	2092.6	1950.9
50°	2087.0	2084.3	2089.9	2101.0	2087.0	2081.5	2059.3	2023.2	1956.5	1862.0	1728.5
52.5°	1811.9	1809.2	1814.8	1828.6	1823.0	1828.6	1806.4	1778.6	1734.1	1642.4	1525.7
55°	1542.4	1542.4	1542.4	1559.0	1559.0	1559.0	1547.9	1531.3	1489.6	1422.9	1314.5
57.5°	1261.7	1264.4	1281.1	1283.9	1281.1	1286.8	1283.9	1267.2	1239.5	1192.3	1108.9
60°	1025.5	1025.5	1033.8	1042.2	1039.3	1042.2	1042.2	1033.8	1006.0	967.2	900.5
62.5°	811.5	819.8	814.2	819.8	830.9	819.8	814.2	808.7	789.3	764.2	708.6
65°	614.2	619.8	619.8	622.5	616.9	619.8	608.7	600.3	589.2	561.4	525.3
67.5°	466.9	466.9	466.9	466.9	464.1	461.3	458.6	450.2	430.8	419.7	380.7
70°	358.5	341.8	341.8	341.8	341.8	344.7	336.3	325.2	319.6	300.2	272.4
72.5°	239.0	244.6	239.0	239.0	233.5	236.2	225.1	219.5	214.0	202.9	186.2
75°	172.3	158.4	163.9	166.8	158.4	163.9	152.8	141.7	141.7	133.4	125.0
77.5°	111.2	108.4	111.2	113.9	111.2	108.4	102.8	97.2	97.2	94.5	86.1
80°	80.6	77.8	77.8	77.8	75.0	77.8	72.3	72.3	66.7	63.9	58.3
82.5°	52.8	52.8	50.0	52.8	50.0	52.8	44.5	44.5	44.5	41.6	36.1
85°	36.1	30.5	30.5	33.4	27.8	33.4	30.5	27.8	25.1	25.1	22.2
87.5°	16.7	19.4	16.7	19.4	16.7	16.7	19.4	16.7	16.7	11.1	11.1
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°	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5
2.5°	5663.7	5666.4	5666.4	5677.7	5683.1	5685.9	5685.9	5708.2	5699.8	5705.5	5710.9
5°	5583.2	5599.8	5605.4	5605.4	5635.9	5647.0	5658.1	5683.1	5685.9	5702.6	5722.0
7.5°	5505.3	5524.7	5535.9	5560.9	5580.3	5599.8	5633.2	5649.9	5666.4	5688.8	5713.7
10°	5430.2	5452.5	5474.7	5494.2	5524.7	5549.8	5572.0	5610.9	5630.4	5661.0	5694.2
12.5°	5358.1	5388.6	5408.0	5441.3	5474.7	5496.9	5530.3	5566.5	5597.0	5627.6	5666.4
15°	5294.1	5330.3	5352.5	5388.6	5424.7	5455.3	5491.4	5535.9	5558.1	5594.3	5630.4
17.5°	5224.6	5263.6	5291.4	5324.7	5369.2	5402.4	5433.1	5477.5	5505.3	5544.2	5585.9
20°	5152.4	5191.3	5224.6	5258.0	5302.5	5335.8	5371.9	5416.4	5446.9	5485.8	5519.2
22.5°	5066.3	5102.4	5138.4	5177.3	5221.8	5249.6	5291.4	5330.3	5363.5	5399.7	5433.1
25°	4955.1	4999.6	5027.4	5063.4	5099.5	5130.1	5174.6	5213.5	5241.3	5274.7	5305.2
27.5°	4824.4	4857.8	4880.0	4910.6	4946.7	4974.5	5007.8	5046.8	5074.6	5105.1	5127.3
30°	4602.1	4632.7	4652.2	4674.4	4710.5	4735.6	4763.4	4799.4	4818.8	4841.1	4860.6
32.5°	4310.3	4335.3	4346.4	4363.1	4388.2	4413.1	4435.4	4465.9	4474.3	4488.1	4488.1
35°	3887.9	3893.4	3890.7	3896.3	3907.4	3921.2	3940.7	3960.1	3971.2	3971.2	3963.0
37.5°	3393.2	3359.9	3323.8	3296.0	3287.6	3282.0	3293.2	3301.5	3312.7	3318.2	3304.3
40°	2879.2	2804.1	2723.5	2651.2	2601.2	2579.0	2570.6	2576.1	2576.1	2595.6	2595.6
42.5°	2437.3	2320.5	2201.1	2092.6	2020.3	1964.8	1939.8	1939.8	1942.5	1956.5	1964.8
45°	2070.4	1923.1	1784.1	1664.7	1564.6	1492.3	1459.0	1450.7	1447.9	1453.4	1472.9
47.5°	1789.7	1636.9	1492.3	1345.1	1239.5	1167.2	1136.7	1125.5	1114.4	1125.5	1128.3
50°	1570.2	1411.8	1259.0	1111.6	1000.4	936.5	897.6	880.9	878.2	878.2	883.8
52.5°	1370.0	1222.8	1070.0	919.9	803.1	742.0	705.9	697.5	686.4	697.5	697.5
55°	1181.1	1033.8	883.8	742.0	644.7	580.9	547.5	536.4	530.8	539.1	539.1
57.5°	975.5	850.4	711.5	583.6	486.4	441.9	416.8	403.0	400.1	405.7	400.1
60°	800.4	694.8	575.3	458.6	383.5	336.3	316.9	311.3	305.6	311.3	311.3
62.5°	633.6	544.7	447.4	358.5	294.5	261.3	239.0	239.0	236.2	236.2	239.0
65°	469.7	400.1	330.7	255.7	205.7	180.6	163.9	163.9	161.2	163.9	161.2
67.5°	341.8	294.5	239.0	186.2	147.3	133.4	122.3	113.9	119.5	113.9	111.2
70°	250.2	211.2	172.3	141.7	113.9	100.1	91.7	88.9	83.4	83.4	83.4
72.5°	166.8	141.7	116.7	91.7	75.0	61.1	58.3	52.8	47.2	50.0	55.6
75°	111.2	94.5	83.4	66.7	50.0	50.0	33.4	33.4	27.8	33.4	25.1
77.5°	77.8	63.9	50.0	41.6	33.4	30.5	22.2	22.2	19.4	19.4	19.4
80°	55.6	47.2	36.1	30.5	22.2	22.2	19.4	16.7	13.8	13.8	16.7
82.5°	33.4	25.1	25.1	22.2	13.8	11.1	8.4	11.1	5.6	5.6	5.6
85°	19.4	16.7	13.8	8.4	5.6	5.6	2.7	0.0	2.7	2.7	0.0
87.5°	11.1	5.6	5.6	2.7	0.0	2.7	2.7	0.0	0.0	0.0	5.6
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5
2.5°	5724.9	5722.0	5727.6	5727.6	5744.3	5741.5	5749.8	5749.8	5744.3	5747.1	5758.2
5°	5744.3	5752.7	5769.3	5783.2	5808.2	5819.4	5833.2	5847.2	5849.9	5858.3	5866.6
7.5°	5744.3	5772.1	5791.6	5816.5	5849.9	5869.4	5899.9	5925.0	5936.1	5949.9	5966.6
10°	5733.1	5760.9	5797.1	5824.9	5866.6	5897.2	5927.7	5966.6	5983.3	6005.5	6027.8
12.5°	5710.9	5741.5	5780.4	5816.5	5863.8	5891.6	5930.5	5966.6	5991.7	6022.2	6047.2
15°	5677.7	5713.7	5749.8	5786.0	5836.0	5869.4	5905.5	5947.2	5972.2	6005.5	6027.8
17.5°	5624.8	5663.7	5697.1	5730.4	5777.6	5816.5	5849.9	5888.8	5913.9	5941.7	5972.2
20°	5560.9	5597.0	5633.2	5661.0	5708.2	5741.5	5777.6	5813.8	5833.2	5838.8	5886.1
22.5°	5480.3	5505.3	5533.1	5577.6	5605.4	5635.9	5669.3	5702.6	5722.0	5752.7	5769.3
25°	5346.8	5371.9	5402.4	5421.9	5455.3	5480.3	5513.6	5549.8	5560.9	5583.2	5599.8
27.5°	5160.7	5174.6	5188.5	5205.1	5224.6	5238.5	5258.0	5274.7	5285.8	5296.9	5308.0
30°	4866.1	4866.1	4866.1	4855.0	4863.3	4871.7	4874.4	4871.7	4871.7	4868.9	4868.9
32.5°	4477.0	4454.8	4429.8	4407.6	4399.3	4388.2	4382.6	4374.2	4360.4	4352.0	4354.8
35°	3951.8	3901.8	3871.2	3843.4	3821.3	3804.6	3796.2	3787.9	3785.1	3774.0	3762.8
37.5°	3296.0	3259.8	3237.6	3220.9	3201.5	3184.8	3187.5	3190.4	3198.6	3193.1	3195.9
40°	2601.2	2592.8	2601.2	2581.7	2576.1	2581.7	2595.6	2615.1	2626.2	2637.3	2656.8
42.5°	1978.7	1992.5	2012.1	2012.1	2020.3	2031.5	2048.1	2078.8	2095.4	2114.8	2137.1
45°	1489.6	1506.3	1531.3	1539.6	1545.2	1559.0	1578.6	1603.5	1614.6	1631.3	1650.7
47.5°	1147.8	1158.9	1172.7	1186.7	1200.5	1206.1	1225.6	1225.6	1239.5	1250.6	1256.1
50°	894.9	906.0	917.1	925.4	931.0	939.4	944.8	953.2	955.9	961.5	964.3
52.5°	700.3	714.2	714.2	719.7	728.1	736.4	733.7	736.4	739.2	739.2	747.5
55°	547.5	547.5	555.8	555.8	561.4	558.6	561.4	561.4	561.4	561.4	564.2
57.5°	408.5	411.3	419.7	414.1	411.3	416.8	411.3	416.8	414.1	419.7	411.3
60°	314.0	314.0	316.9	316.9	319.6	319.6	319.6	316.9	316.9	314.0	314.0
62.5°	236.2	239.0	241.8	239.0	239.0	239.0	236.2	236.2	233.5	230.6	230.6
65°	158.4	155.7	161.2	155.7	158.4	158.4	155.7	158.4	150.1	152.8	150.1
67.5°	113.9	111.2	108.4	111.2	108.4	105.6	105.6	108.4	111.2	102.8	102.8
70°	75.0	77.8	75.0	77.8	80.6	80.6	77.8	75.0	77.8	72.3	75.0
72.5°	47.2	47.2	47.2	47.2	47.2	50.0	50.0	50.0	44.5	44.5	41.6
75°	22.2	30.5	25.1	22.2	30.5	30.5	27.8	27.8	25.1	25.1	25.1
77.5°	22.2	16.7	16.7	16.7	16.7	16.7	16.7	16.7	13.8	16.7	13.8
80°	11.1	11.1	11.1	8.4	11.1	11.1	13.8	11.1	11.1	8.4	13.8
82.5°	5.6	5.6	5.6	0.0	2.7	5.6	5.6	2.7	5.6	5.6	2.7
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: P249050

CATALOG NUMBER: LD8B100D010 ER8B100940 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5
2.5°	5755.4	5752.7	5755.4	5758.2	5755.4	5752.7	5755.4	5758.2	5747.1	5744.3	5749.8
5°	5877.7	5877.7	5883.2	5886.1	5883.2	5877.7	5877.7	5866.6	5858.3	5849.9	5847.2
7.5°	5983.3	5988.9	5994.4	5997.1	5994.4	5988.9	5983.3	5966.6	5949.9	5936.1	5925.0
10°	6047.2	6055.6	6066.7	6072.2	6066.7	6055.6	6047.2	6027.8	6005.5	5983.3	5966.6
12.5°	6075.0	6083.4	6097.2	6094.5	6097.2	6083.4	6075.0	6047.2	6022.2	5991.7	5966.6
15°	6055.6	6066.7	6080.5	6086.1	6080.5	6066.7	6055.6	6027.8	6005.5	5972.2	5947.2
17.5°	5994.4	6011.1	6019.4	6027.8	6019.4	6011.1	5994.4	5972.2	5941.7	5913.9	5888.8
20°	5911.0	5922.2	5933.3	5936.1	5933.3	5922.2	5911.0	5886.1	5838.8	5833.2	5813.8
22.5°	5791.6	5799.9	5824.9	5816.5	5824.9	5799.9	5791.6	5769.3	5752.7	5722.0	5702.6
25°	5619.2	5627.6	5630.4	5633.2	5630.4	5627.6	5619.2	5599.8	5583.2	5560.9	5549.8
27.5°	5321.9	5321.9	5327.4	5330.3	5327.4	5321.9	5321.9	5308.0	5296.9	5285.8	5274.7
30°	4871.7	4871.7	4871.7	4885.6	4871.7	4871.7	4871.7	4868.9	4868.9	4871.7	4871.7
32.5°	4352.0	4346.4	4340.9	4346.4	4340.9	4346.4	4352.0	4354.8	4352.0	4360.4	4374.2
35°	3762.8	3760.1	3768.4	3757.3	3768.4	3760.1	3762.8	3762.8	3774.0	3785.1	3787.9
37.5°	3198.6	3193.1	3204.2	3193.1	3204.2	3193.1	3198.6	3195.9	3193.1	3198.6	3190.4
40°	2662.4	2667.9	2667.9	2690.2	2667.9	2667.9	2662.4	2656.8	2637.3	2626.2	2615.1
42.5°	2148.2	2164.9	2159.3	2176.0	2159.3	2164.9	2148.2	2137.1	2114.8	2095.4	2078.8
45°	1661.8	1673.0	1673.0	1678.5	1673.0	1673.0	1661.8	1650.7	1631.3	1614.6	1603.5
47.5°	1275.5	1275.5	1275.5	1278.4	1275.5	1275.5	1275.5	1256.1	1250.6	1239.5	1225.6
50°	969.9	972.6	975.5	978.2	975.5	972.6	969.9	964.3	961.5	955.9	953.2
52.5°	744.8	747.5	742.0	747.5	742.0	747.5	744.8	747.5	739.2	739.2	736.4
55°	564.2	561.4	564.2	566.9	564.2	561.4	564.2	564.2	561.4	561.4	561.4
57.5°	414.1	408.5	408.5	408.5	408.5	408.5	414.1	411.3	419.7	414.1	416.8
60°	308.5	311.3	311.3	314.0	311.3	311.3	308.5	314.0	314.0	316.9	316.9
62.5°	227.9	236.2	230.6	236.2	230.6	236.2	227.9	230.6	230.6	233.5	236.2
65°	147.3	147.3	147.3	150.1	147.3	147.3	147.3	150.1	152.8	150.1	158.4
67.5°	100.1	102.8	108.4	105.6	108.4	102.8	100.1	102.8	102.8	111.2	108.4
70°	80.6	72.3	72.3	80.6	72.3	72.3	80.6	75.0	72.3	77.8	75.0
72.5°	47.2	41.6	47.2	47.2	47.2	41.6	47.2	41.6	44.5	44.5	50.0
75°	25.1	22.2	19.4	27.8	19.4	22.2	25.1	25.1	25.1	25.1	27.8
77.5°	16.7	13.8	19.4	19.4	19.4	13.8	16.7	13.8	16.7	13.8	16.7
80°	8.4	11.1	8.4	13.8	8.4	11.1	8.4	13.8	8.4	11.1	11.1
82.5°	2.7	5.6	5.6	5.6	5.6	5.6	2.7	2.7	5.6	5.6	2.7
85°	0.0	5.6	2.7	2.7	2.7	5.6	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	0.0	0.0	2.7	0.0	0.0	2.7	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: P249050

CATALOG NUMBER: LD8B100D010 ER8B100940 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5
2.5°	5749.8	5741.5	5744.3	5727.6	5727.6	5722.0	5724.9	5710.9	5705.5	5699.8	5708.2
5°	5833.2	5819.4	5808.2	5783.2	5769.3	5752.7	5744.3	5722.0	5702.6	5685.9	5683.1
7.5°	5899.9	5869.4	5849.9	5816.5	5791.6	5772.1	5744.3	5713.7	5688.8	5666.4	5649.9
10°	5927.7	5897.2	5866.6	5824.9	5797.1	5760.9	5733.1	5694.2	5661.0	5630.4	5610.9
12.5°	5930.5	5891.6	5863.8	5816.5	5780.4	5741.5	5710.9	5666.4	5627.6	5597.0	5566.5
15°	5905.5	5869.4	5836.0	5786.0	5749.8	5713.7	5677.7	5630.4	5594.3	5558.1	5535.9
17.5°	5849.9	5816.5	5777.6	5730.4	5697.1	5663.7	5624.8	5585.9	5544.2	5505.3	5477.5
20°	5777.6	5741.5	5708.2	5661.0	5633.2	5597.0	5560.9	5519.2	5485.8	5446.9	5416.4
22.5°	5669.3	5635.9	5605.4	5577.6	5533.1	5505.3	5480.3	5433.1	5399.7	5363.5	5330.3
25°	5513.6	5480.3	5455.3	5421.9	5402.4	5371.9	5346.8	5305.2	5274.7	5241.3	5213.5
27.5°	5258.0	5238.5	5224.6	5205.1	5188.5	5174.6	5160.7	5127.3	5105.1	5074.6	5046.8
30°	4874.4	4871.7	4863.3	4855.0	4866.1	4866.1	4866.1	4860.6	4841.1	4818.8	4799.4
32.5°	4382.6	4388.2	4399.3	4407.6	4429.8	4454.8	4477.0	4488.1	4488.1	4474.3	4465.9
35°	3796.2	3804.6	3821.3	3843.4	3871.2	3901.8	3951.8	3963.0	3971.2	3971.2	3960.1
37.5°	3187.5	3184.8	3201.5	3220.9	3237.6	3259.8	3296.0	3304.3	3318.2	3312.7	3301.5
40°	2595.6	2581.7	2576.1	2581.7	2601.2	2592.8	2601.2	2595.6	2595.6	2576.1	2576.1
42.5°	2048.1	2031.5	2020.3	2012.1	2012.1	1992.5	1978.7	1964.8	1956.5	1942.5	1939.8
45°	1578.6	1559.0	1545.2	1539.6	1531.3	1506.3	1489.6	1472.9	1453.4	1447.9	1450.7
47.5°	1225.6	1206.1	1200.5	1186.7	1172.7	1158.9	1147.8	1128.3	1125.5	1114.4	1125.5
50°	944.8	939.4	931.0	925.4	917.1	906.0	894.9	883.8	878.2	878.2	880.9
52.5°	733.7	736.4	728.1	719.7	714.2	714.2	700.3	697.5	697.5	686.4	697.5
55°	561.4	558.6	561.4	555.8	555.8	547.5	547.5	539.1	539.1	530.8	536.4
57.5°	411.3	416.8	411.3	414.1	419.7	411.3	408.5	400.1	405.7	400.1	403.0
60°	319.6	319.6	319.6	316.9	316.9	314.0	314.0	311.3	311.3	305.6	311.3
62.5°	236.2	239.0	239.0	239.0	241.8	239.0	236.2	239.0	236.2	236.2	239.0
65°	155.7	158.4	158.4	155.7	161.2	155.7	158.4	161.2	163.9	161.2	163.9
67.5°	105.6	105.6	108.4	111.2	108.4	111.2	113.9	111.2	113.9	119.5	113.9
70°	77.8	80.6	80.6	77.8	75.0	77.8	75.0	83.4	83.4	83.4	88.9
72.5°	50.0	50.0	47.2	47.2	47.2	47.2	47.2	55.6	50.0	47.2	52.8
75°	27.8	30.5	30.5	22.2	25.1	30.5	22.2	25.1	33.4	27.8	33.4
77.5°	16.7	16.7	16.7	16.7	16.7	16.7	22.2	19.4	19.4	19.4	22.2
80°	13.8	11.1	11.1	8.4	11.1	11.1	11.1	16.7	13.8	13.8	16.7
82.5°	5.6	5.6	2.7	0.0	5.6	5.6	5.6	5.6	5.6	5.6	11.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	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: P249050

CATALOG NUMBER: LD8B100D010 ER8B100940 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5
2.5°	5685.9	5685.9	5683.1	5677.7	5666.4	5666.4	5663.7	5655.4	5649.9	5647.0	5647.0
5°	5658.1	5647.0	5635.9	5605.4	5605.4	5599.8	5583.2	5572.0	5566.5	5552.5	5547.0
7.5°	5633.2	5599.8	5580.3	5560.9	5535.9	5524.7	5505.3	5496.9	5477.5	5463.6	5455.3
10°	5572.0	5549.8	5524.7	5494.2	5474.7	5452.5	5430.2	5413.6	5388.6	5374.6	5363.5
12.5°	5530.3	5496.9	5474.7	5441.3	5408.0	5388.6	5358.1	5338.6	5313.6	5285.8	5269.1
15°	5491.4	5455.3	5424.7	5388.6	5352.5	5330.3	5294.1	5271.9	5235.8	5208.0	5188.5
17.5°	5433.1	5402.4	5369.2	5324.7	5291.4	5263.6	5224.6	5196.9	5163.5	5127.3	5107.9
20°	5371.9	5335.8	5302.5	5258.0	5224.6	5191.3	5152.4	5121.8	5082.8	5049.6	5027.4
22.5°	5291.4	5249.6	5221.8	5177.3	5138.4	5102.4	5066.3	5030.1	4994.0	4966.2	4941.1
25°	5174.6	5130.1	5099.5	5063.4	5027.4	4999.6	4955.1	4932.9	4896.7	4871.7	4846.6
27.5°	5007.8	4974.5	4946.7	4910.6	4880.0	4857.8	4824.4	4802.2	4771.6	4749.4	4730.0
30°	4763.4	4735.6	4710.5	4674.4	4652.2	4632.7	4602.1	4582.6	4560.4	4535.4	4529.9
32.5°	4435.4	4413.1	4388.2	4363.1	4346.4	4335.3	4310.3	4299.2	4277.0	4263.0	4249.2
35°	3940.7	3921.2	3907.4	3896.3	3890.7	3893.4	3887.9	3899.0	3904.5	3901.8	3904.5
37.5°	3293.2	3282.0	3287.6	3296.0	3323.8	3359.9	3393.2	3443.2	3476.6	3510.0	3540.5
40°	2570.6	2579.0	2601.2	2651.2	2723.5	2804.1	2879.2	2973.6	3068.1	3134.8	3195.9
42.5°	1939.8	1964.8	2020.3	2092.6	2201.1	2320.5	2437.3	2576.1	2690.2	2801.3	2879.2
45°	1459.0	1492.3	1564.6	1664.7	1784.1	1923.1	2070.4	2226.0	2362.2	2476.2	2562.3
47.5°	1136.7	1167.2	1239.5	1345.1	1492.3	1636.9	1789.7	1950.9	2092.6	2203.8	2278.8
50°	897.6	936.5	1000.4	1111.6	1259.0	1411.8	1570.2	1728.5	1862.0	1956.5	2023.2
52.5°	705.9	742.0	803.1	919.9	1070.0	1222.8	1370.0	1525.7	1642.4	1734.1	1778.6
55°	547.5	580.9	644.7	742.0	883.8	1033.8	1181.1	1314.5	1422.9	1489.6	1531.3
57.5°	416.8	441.9	486.4	583.6	711.5	850.4	975.5	1108.9	1192.3	1239.5	1267.2
60°	316.9	336.3	383.5	458.6	575.3	694.8	800.4	900.5	967.2	1006.0	1033.8
62.5°	239.0	261.3	294.5	358.5	447.4	544.7	633.6	708.6	764.2	789.3	808.7
65°	163.9	180.6	205.7	255.7	330.7	400.1	469.7	525.3	561.4	589.2	600.3
67.5°	122.3	133.4	147.3	186.2	239.0	294.5	341.8	380.7	419.7	430.8	450.2
70°	91.7	100.1	113.9	141.7	172.3	211.2	250.2	272.4	300.2	319.6	325.2
72.5°	58.3	61.1	75.0	91.7	116.7	141.7	166.8	186.2	202.9	214.0	219.5
75°	33.4	50.0	50.0	66.7	83.4	94.5	111.2	125.0	133.4	141.7	141.7
77.5°	22.2	30.5	33.4	41.6	50.0	63.9	77.8	86.1	94.5	97.2	97.2
80°	19.4	22.2	22.2	30.5	36.1	47.2	55.6	58.3	63.9	66.7	72.3
82.5°	8.4	11.1	13.8	22.2	25.1	25.1	33.4	36.1	41.6	44.5	44.5
85°	2.7	5.6	5.6	8.4	13.8	16.7	19.4	22.2	25.1	25.1	27.8
87.5°	2.7	2.7	0.0	2.7	5.6	5.6	11.1	11.1	11.1	16.7	16.7
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: P249050

CATALOG NUMBER: LD8B100D010 ER8B100940 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5	5691.5
2.5°	5641.5	5644.3	5633.2	5630.4	5624.8	5627.6	5633.2
5°	5538.7	5541.4	5530.3	5519.2	5519.2	5516.4	5519.2
7.5°	5441.3	5444.2	5427.5	5421.9	5410.8	5413.6	5413.6
10°	5344.1	5344.1	5319.2	5316.3	5308.0	5305.2	5305.2
12.5°	5249.6	5241.3	5221.8	5210.7	5216.3	5199.6	5199.6
15°	5166.2	5152.4	5127.3	5119.0	5105.1	5099.5	5099.5
17.5°	5080.1	5069.0	5046.8	5030.1	5013.4	5010.7	5013.4
20°	4996.7	4985.6	4957.8	4946.7	4932.9	4932.9	4927.3
22.5°	4913.3	4902.2	4877.3	4868.9	4849.5	4849.5	4852.2
25°	4827.2	4818.8	4791.0	4785.5	4782.8	4771.6	4777.2
27.5°	4710.5	4704.9	4682.7	4674.4	4663.3	4660.5	4666.0
30°	4496.5	4488.1	4471.5	4463.2	4443.8	4446.5	4452.0
32.5°	4229.7	4218.6	4196.3	4188.0	4171.4	4165.8	4168.5
35°	3896.3	3887.9	3868.5	3868.5	3851.8	3846.2	3851.8
37.5°	3557.2	3565.5	3557.2	3565.5	3557.2	3554.4	3557.2
40°	3237.6	3268.2	3273.7	3304.3	3293.2	3309.8	3307.1
42.5°	2931.9	2981.9	3001.4	3026.4	3020.9	3032.0	3040.3
45°	2623.4	2665.1	2684.6	2701.3	2704.0	2709.6	2712.4
47.5°	2331.6	2365.0	2367.7	2387.2	2384.4	2384.4	2392.8
50°	2059.3	2081.5	2087.0	2101.0	2089.9	2084.3	2087.0
52.5°	1806.4	1828.6	1823.0	1828.6	1814.8	1809.2	1811.9
55°	1547.9	1559.0	1559.0	1559.0	1542.4	1542.4	1542.4
57.5°	1283.9	1286.8	1281.1	1283.9	1281.1	1264.4	1261.7
60°	1042.2	1042.2	1039.3	1042.2	1033.8	1025.5	1025.5
62.5°	814.2	819.8	830.9	819.8	814.2	819.8	811.5
65°	608.7	619.8	616.9	622.5	619.8	619.8	614.2
67.5°	458.6	461.3	464.1	466.9	466.9	466.9	466.9
70°	336.3	344.7	341.8	341.8	341.8	341.8	358.5
72.5°	225.1	236.2	233.5	239.0	239.0	244.6	239.0
75°	152.8	163.9	158.4	166.8	163.9	158.4	172.3
77.5°	102.8	108.4	111.2	113.9	111.2	108.4	111.2
80°	72.3	77.8	75.0	77.8	77.8	77.8	80.6
82.5°	44.5	52.8	50.0	52.8	50.0	52.8	52.8
85°	30.5	33.4	27.8	33.4	30.5	30.5	36.1
87.5°	19.4	16.7	16.7	19.4	16.7	19.4	16.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)