

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: P249059

Luminaire Tested: **LD8B100D010 ER8B100950 8LBSW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249059  
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 ER8B100950 8LBSW0MW  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9925.0 lumens  
Efficiency: N/A  
Efficacy: 93.4 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

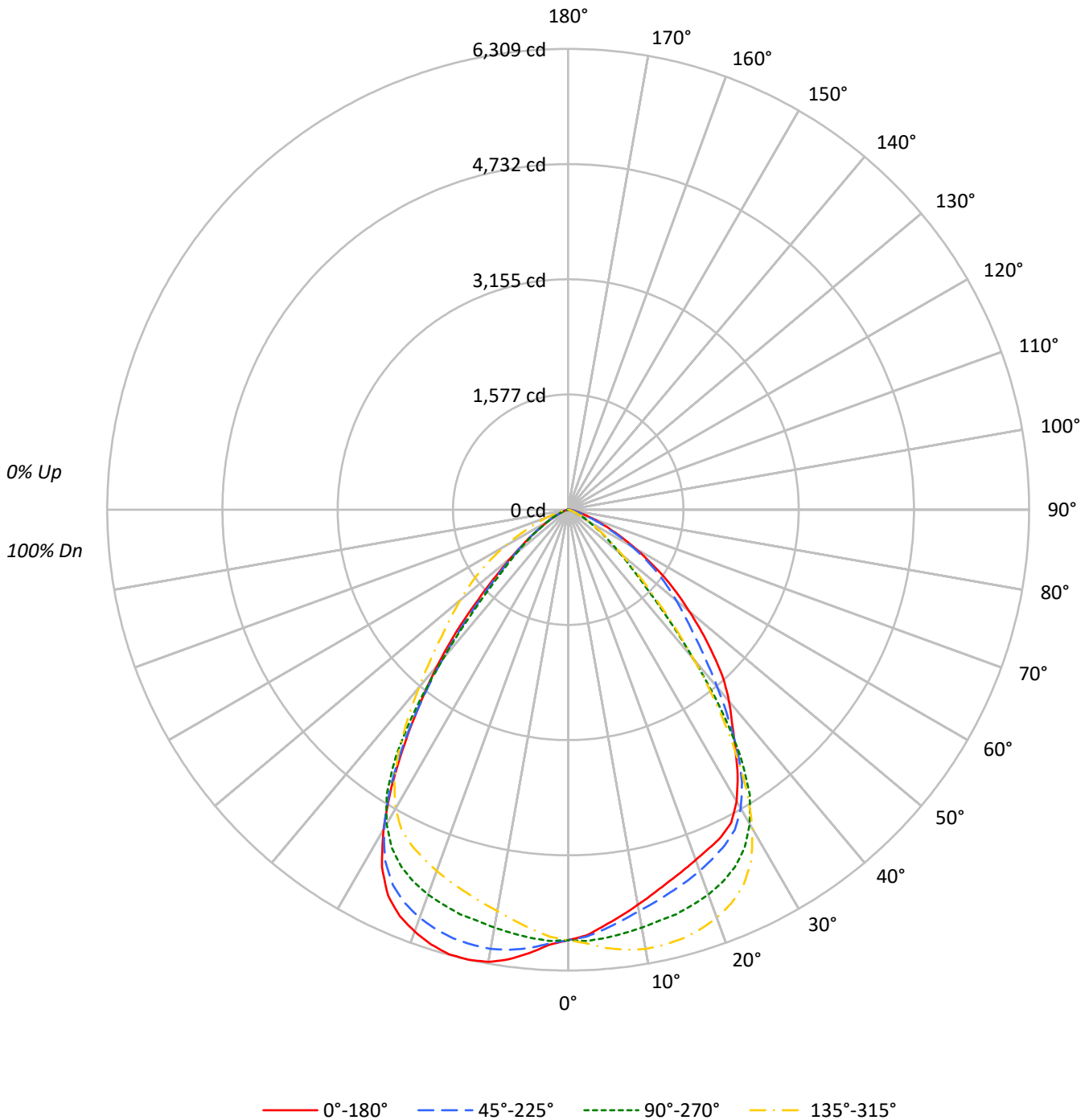
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	181694	181694	181694	181694
5°	176866	182118	188622	182118
10°	171975	181882	196837	181882
15°	168537	182960	201144	182960
20°	167391	184009	201660	184009
25°	168270	183638	198422	183638
30°	164108	176915	180095	176915
35°	150110	154330	146428	154330
40°	137817	107357	112107	107357
45°	122454	65492	75780	65492
50°	103650	43751	48582	43751
55°	85846	29854	31553	29854
60°	65472	19871	20050	19871
65°	46391	12382	11339	12382
70°	33458	8295	7528	8295
75°	21243	4122	3431	4122
80°	14828	3072	2539	3072
85°	13232	0	991	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	560.8	5.7
10°-20°	1624.0	16.4
20°-30°	2459.1	24.8
30°-40°	2464.7	24.8
40°-50°	1547.7	15.6
50°-60°	824.8	8.3
60°-70°	339.2	3.4
70°-80°	89.6	0.9
80°-90°	15.1	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°	4644.0	46.8
0°-40°	7108.7	71.6
0°-60°	9481.1	95.5
0°-90°	9925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9925.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	5892	5892	5892	5892	5892	
5°	5714	5884	6094	5884	5714	539
15°	5279	5731	6301	5731	5279	1493
25°	4946	5397	5832	5397	4946	2268
35°	3988	4100	3890	4100	3988	2498
45°	2808	1502	1738	1502	2808	2160
55°	1597	555	587	555	1597	1424
65°	636	170	155	170	636	660
75°	178	35	29	35	178	202
85°	37	0	3	0	37	41
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°	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2
2.5°	5831.8	5826.0	5823.1	5828.9	5831.8	5843.3	5840.4	5846.1	5846.1	5849.1	5854.7
5°	5713.8	5710.9	5713.8	5713.8	5725.3	5736.8	5733.9	5742.6	5748.3	5762.7	5768.4
7.5°	5604.5	5604.5	5601.6	5613.0	5618.8	5636.1	5633.2	5647.6	5656.3	5670.6	5690.7
10°	5492.3	5492.3	5495.1	5503.7	5506.7	5532.5	5532.5	5552.6	5564.1	5578.6	5604.5
12.5°	5382.9	5382.9	5400.2	5394.4	5405.9	5426.1	5434.7	5454.8	5472.1	5500.9	5526.8
15°	5279.3	5279.3	5285.1	5299.5	5308.1	5334.0	5348.4	5371.5	5391.6	5420.4	5457.8
17.5°	5190.2	5187.3	5190.2	5207.4	5224.7	5247.7	5259.2	5288.0	5308.1	5345.5	5380.1
20°	5101.0	5106.8	5106.8	5121.1	5132.6	5161.4	5172.9	5204.6	5227.6	5262.0	5302.4
22.5°	5023.3	5020.5	5020.5	5040.6	5049.2	5075.1	5086.5	5115.3	5141.3	5170.0	5207.4
25°	4945.6	4939.8	4951.4	4954.3	4959.9	4988.7	4997.4	5017.5	5043.4	5069.4	5106.8
27.5°	4830.5	4824.8	4827.7	4839.2	4847.8	4870.8	4876.6	4896.7	4916.8	4939.8	4971.6
30°	4608.9	4603.3	4600.4	4620.6	4629.2	4646.4	4655.0	4689.6	4695.3	4721.2	4744.2
32.5°	4315.5	4312.7	4318.5	4335.6	4344.3	4367.4	4378.9	4399.0	4413.3	4427.8	4450.7
35°	3987.6	3981.8	3987.6	4004.9	4004.9	4025.0	4033.7	4042.2	4039.3	4042.2	4036.5
37.5°	3682.7	3679.7	3682.7	3691.2	3682.7	3691.2	3682.7	3665.4	3633.8	3599.2	3564.6
40°	3423.7	3426.5	3409.3	3420.8	3389.1	3383.4	3351.8	3308.6	3245.3	3176.3	3078.5
42.5°	3147.5	3138.9	3127.4	3133.1	3107.3	3087.0	3035.3	2980.7	2900.0	2785.0	2667.0
45°	2808.0	2805.2	2799.4	2796.5	2779.2	2759.1	2715.9	2652.6	2563.5	2445.5	2304.5
47.5°	2477.1	2468.5	2468.5	2471.3	2451.2	2448.4	2413.8	2359.2	2281.5	2166.4	2019.7
50°	2160.6	2157.8	2163.6	2175.0	2160.6	2154.9	2131.9	2094.5	2025.5	1927.7	1789.5
52.5°	1875.8	1872.9	1878.8	1893.1	1887.3	1893.1	1870.1	1841.3	1795.3	1700.3	1579.5
55°	1596.8	1596.8	1596.8	1614.0	1614.0	1614.0	1602.5	1585.3	1542.1	1473.0	1360.9
57.5°	1306.2	1309.0	1326.3	1329.2	1326.3	1332.1	1329.2	1311.9	1283.2	1234.3	1148.0
60°	1061.6	1061.6	1070.3	1078.9	1076.0	1078.9	1078.9	1070.3	1041.5	1001.3	932.2
62.5°	840.1	848.7	842.9	848.7	860.2	848.7	842.9	837.2	817.1	791.2	733.6
65°	635.8	641.6	641.6	644.4	638.6	641.6	630.1	621.5	610.0	581.2	543.8
67.5°	483.4	483.4	483.4	483.4	480.4	477.6	474.8	466.1	446.0	434.5	394.1
70°	371.1	353.8	353.8	353.8	353.8	356.8	348.2	336.7	330.9	310.7	282.0
72.5°	247.4	253.2	247.4	247.4	241.7	244.5	233.1	227.3	221.6	210.1	192.8
75°	178.3	164.0	169.7	172.7	164.0	169.7	158.2	146.7	146.7	138.1	129.4
77.5°	115.1	112.3	115.1	117.9	115.1	112.3	106.5	100.7	100.7	97.8	89.2
80°	83.5	80.5	80.5	80.5	77.7	80.5	74.8	74.8	69.0	66.2	60.4
82.5°	54.7	54.7	51.8	54.7	51.8	54.7	46.1	46.1	46.1	43.1	37.4
85°	37.4	31.6	31.6	34.6	28.8	34.6	31.6	28.8	25.9	25.9	23.0
87.5°	17.3	20.1	17.3	20.1	17.3	17.3	20.1	17.3	17.3	11.5	11.5
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°	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2
2.5°	5863.4	5866.2	5866.2	5877.8	5883.5	5886.4	5886.4	5909.4	5900.8	5906.6	5912.3
5°	5780.0	5797.2	5803.0	5803.0	5834.6	5846.1	5857.6	5883.5	5886.4	5903.6	5923.8
7.5°	5699.4	5719.5	5731.1	5756.9	5777.1	5797.2	5831.8	5849.1	5866.2	5889.3	5915.1
10°	5621.7	5644.8	5667.8	5687.9	5719.5	5745.4	5768.4	5808.7	5828.9	5860.5	5895.0
12.5°	5547.0	5578.6	5598.7	5633.2	5667.8	5690.7	5725.3	5762.7	5794.3	5826.0	5866.2
15°	5480.8	5518.2	5541.2	5578.6	5616.0	5647.6	5685.0	5731.1	5754.1	5791.5	5828.9
17.5°	5408.8	5449.1	5477.9	5512.4	5558.4	5592.9	5624.6	5670.6	5699.4	5739.6	5782.9
20°	5334.0	5374.3	5408.8	5443.3	5489.4	5523.9	5561.3	5607.4	5639.0	5679.2	5713.8
22.5°	5244.9	5282.3	5319.6	5359.9	5405.9	5434.7	5477.9	5518.2	5552.6	5590.1	5624.6
25°	5129.8	5175.8	5204.6	5241.9	5279.3	5310.9	5357.0	5397.3	5426.1	5460.6	5492.3
27.5°	4994.5	5029.1	5052.1	5083.7	5121.1	5149.9	5184.4	5224.7	5253.5	5285.1	5308.1
30°	4764.3	4796.1	4816.2	4839.2	4876.6	4902.5	4931.3	4968.6	4988.7	5011.8	5031.9
32.5°	4462.2	4488.2	4499.6	4516.9	4542.9	4568.7	4591.8	4623.4	4632.0	4646.4	4646.4
35°	4025.0	4030.7	4027.9	4033.7	4045.1	4059.5	4079.6	4099.7	4111.2	4111.2	4102.7
37.5°	3512.8	3478.4	3441.0	3412.2	3403.5	3397.7	3409.3	3417.9	3429.5	3435.2	3420.8
40°	2980.7	2903.0	2819.5	2744.6	2692.9	2669.9	2661.3	2667.0	2667.0	2687.1	2687.1
42.5°	2523.2	2402.3	2278.7	2166.4	2091.6	2034.1	2008.2	2008.2	2011.0	2025.5	2034.1
45°	2143.4	1990.9	1847.0	1723.4	1619.8	1544.9	1510.5	1501.8	1499.0	1504.7	1524.8
47.5°	1852.8	1694.6	1544.9	1392.5	1283.2	1208.4	1176.8	1165.1	1153.7	1165.1	1168.1
50°	1625.6	1461.6	1303.3	1150.8	1035.7	969.5	929.3	912.0	909.1	909.1	914.9
52.5°	1418.3	1265.9	1107.7	952.3	831.4	768.2	730.8	722.1	710.6	722.1	722.1
55°	1222.7	1070.3	914.9	768.2	667.4	601.3	566.8	555.3	549.5	558.1	558.1
57.5°	1009.9	880.3	736.6	604.2	503.5	457.5	431.5	417.2	414.2	420.0	414.2
60°	828.6	719.3	595.5	474.8	397.1	348.2	328.0	322.2	316.4	322.2	322.2
62.5°	655.9	563.9	463.1	371.1	304.9	270.5	247.4	247.4	244.5	244.5	247.4
65°	486.2	414.2	342.4	264.7	212.9	187.0	169.7	169.7	166.9	169.7	166.9
67.5°	353.8	304.9	247.4	192.8	152.5	138.1	126.6	117.9	123.8	117.9	115.1
70°	259.0	218.6	178.3	146.7	117.9	103.6	95.0	92.0	86.3	86.3	86.3
72.5°	172.7	146.7	120.8	95.0	77.7	63.2	60.4	54.7	48.9	51.8	57.6
75°	115.1	97.8	86.3	69.0	51.8	51.8	34.6	34.6	28.8	34.6	25.9
77.5°	80.5	66.2	51.8	43.1	34.6	31.6	23.0	23.0	20.1	20.1	20.1
80°	57.6	48.9	37.4	31.6	23.0	23.0	20.1	17.3	14.3	14.3	17.3
82.5°	34.6	25.9	25.9	23.0	14.3	11.5	8.6	11.5	5.8	5.8	5.8
85°	20.1	17.3	14.3	8.6	5.8	5.8	2.8	0.0	2.8	2.8	0.0
87.5°	11.5	5.8	5.8	2.8	0.0	2.8	2.8	0.0	0.0	0.0	5.8
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°	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2
2.5°	5926.7	5923.8	5929.6	5929.6	5946.9	5943.9	5952.6	5952.6	5946.9	5949.7	5961.2
5°	5946.9	5955.5	5972.7	5987.1	6012.9	6024.6	6038.9	6053.3	6056.2	6064.8	6073.5
7.5°	5946.9	5975.6	5995.8	6021.6	6056.2	6076.3	6107.9	6133.9	6145.3	6159.7	6177.0
10°	5935.3	5964.0	6001.5	6030.2	6073.5	6105.1	6136.7	6177.0	6194.3	6217.2	6240.3
12.5°	5912.3	5943.9	5984.2	6021.6	6070.5	6099.3	6139.5	6177.0	6202.9	6234.5	6260.4
15°	5877.8	5915.1	5952.6	5990.0	6041.7	6076.3	6113.7	6156.8	6182.8	6217.2	6240.3
17.5°	5823.1	5863.4	5898.0	5932.4	5981.3	6021.6	6056.2	6096.4	6122.4	6151.1	6182.8
20°	5756.9	5794.3	5831.8	5860.5	5909.4	5943.9	5981.3	6018.8	6038.9	6044.7	6093.6
22.5°	5673.6	5699.4	5728.1	5774.2	5803.0	5834.6	5869.2	5903.6	5923.8	5955.5	5972.7
25°	5535.4	5561.3	5592.9	5613.0	5647.6	5673.6	5708.0	5745.4	5756.9	5780.0	5797.2
27.5°	5342.7	5357.0	5371.5	5388.6	5408.8	5423.2	5443.3	5460.6	5472.1	5483.6	5495.1
30°	5037.6	5037.6	5037.6	5026.1	5034.8	5043.4	5046.3	5043.4	5043.4	5040.6	5040.6
32.5°	4634.9	4611.9	4586.0	4563.0	4554.4	4542.9	4537.1	4528.4	4514.1	4505.4	4508.3
35°	4091.1	4039.3	4007.7	3978.9	3956.0	3938.7	3930.0	3921.4	3918.6	3907.1	3895.5
37.5°	3412.2	3374.8	3351.8	3334.5	3314.4	3297.1	3299.9	3302.9	3311.4	3305.7	3308.6
40°	2692.9	2684.3	2692.9	2672.8	2667.0	2672.8	2687.1	2707.3	2718.8	2730.3	2750.4
42.5°	2048.4	2062.8	2083.0	2083.0	2091.6	2103.2	2120.3	2152.1	2169.2	2189.4	2212.5
45°	1542.1	1559.4	1585.3	1593.8	1599.6	1614.0	1634.2	1660.0	1671.5	1688.8	1708.9
47.5°	1188.2	1199.7	1214.1	1228.5	1242.8	1248.6	1268.8	1268.8	1283.2	1294.7	1300.4
50°	926.4	937.9	949.4	958.0	963.8	972.5	978.2	986.8	989.6	995.4	998.3
52.5°	725.0	739.4	739.4	745.1	753.8	762.4	759.6	762.4	765.2	765.2	773.9
55°	566.8	566.8	575.4	575.4	581.2	578.3	581.2	581.2	581.2	581.2	584.1
57.5°	422.9	425.8	434.5	428.7	425.8	431.5	425.8	431.5	428.7	434.5	425.8
60°	325.1	325.1	328.0	328.0	330.9	330.9	330.9	328.0	328.0	325.1	325.1
62.5°	244.5	247.4	250.3	247.4	247.4	247.4	244.5	244.5	241.7	238.7	238.7
65°	164.0	161.2	166.9	161.2	164.0	164.0	161.2	164.0	155.4	158.2	155.4
67.5°	117.9	115.1	112.3	115.1	112.3	109.3	109.3	112.3	115.1	106.5	106.5
70°	77.7	80.5	77.7	80.5	83.5	83.5	80.5	77.7	80.5	74.8	77.7
72.5°	48.9	48.9	48.9	48.9	48.9	51.8	51.8	51.8	46.1	46.1	43.1
75°	23.0	31.6	25.9	23.0	31.6	31.6	28.8	28.8	25.9	25.9	25.9
77.5°	23.0	17.3	17.3	17.3	17.3	17.3	17.3	17.3	14.3	17.3	14.3
80°	11.5	11.5	11.5	8.6	11.5	11.5	14.3	11.5	11.5	8.6	14.3
82.5°	5.8	5.8	5.8	0.0	2.8	5.8	5.8	2.8	5.8	5.8	2.8
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: P249059

CATALOG NUMBER: LD8B100D010 ER8B100950 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2
2.5°	5958.4	5955.5	5958.4	5961.2	5958.4	5955.5	5958.4	5961.2	5949.7	5946.9	5952.6
5°	6084.9	6084.9	6090.6	6093.6	6090.6	6084.9	6084.9	6073.5	6064.8	6056.2	6053.3
7.5°	6194.3	6200.1	6205.7	6208.6	6205.7	6200.1	6194.3	6177.0	6159.7	6145.3	6133.9
10°	6260.4	6269.1	6280.6	6286.3	6280.6	6269.1	6260.4	6240.3	6217.2	6194.3	6177.0
12.5°	6289.2	6297.9	6312.2	6309.4	6312.2	6297.9	6289.2	6260.4	6234.5	6202.9	6177.0
15°	6269.1	6280.6	6294.9	6300.7	6294.9	6280.6	6269.1	6240.3	6217.2	6182.8	6156.8
17.5°	6205.7	6223.0	6231.7	6240.3	6231.7	6223.0	6205.7	6182.8	6151.1	6122.4	6096.4
20°	6119.4	6131.0	6142.5	6145.3	6142.5	6131.0	6119.4	6093.6	6044.7	6038.9	6018.8
22.5°	5995.8	6004.4	6030.2	6021.6	6030.2	6004.4	5995.8	5972.7	5955.5	5923.8	5903.6
25°	5817.3	5826.0	5828.9	5831.8	5828.9	5826.0	5817.3	5797.2	5780.0	5756.9	5745.4
27.5°	5509.5	5509.5	5515.2	5518.2	5515.2	5509.5	5509.5	5495.1	5483.6	5472.1	5460.6
30°	5043.4	5043.4	5043.4	5057.9	5043.4	5043.4	5043.4	5040.6	5040.6	5043.4	5043.4
32.5°	4505.4	4499.6	4494.0	4499.6	4494.0	4499.6	4505.4	4508.3	4505.4	4514.1	4528.4
35°	3895.5	3892.6	3901.3	3889.8	3901.3	3892.6	3895.5	3895.5	3907.1	3918.6	3921.4
37.5°	3311.4	3305.7	3317.2	3305.7	3317.2	3305.7	3311.4	3308.6	3305.7	3311.4	3302.9
40°	2756.3	2761.9	2761.9	2785.0	2761.9	2761.9	2756.3	2750.4	2730.3	2718.8	2707.3
42.5°	2223.9	2241.2	2235.4	2252.7	2235.4	2241.2	2223.9	2212.5	2189.4	2169.2	2152.1
45°	1720.4	1732.0	1732.0	1737.7	1732.0	1732.0	1720.4	1708.9	1688.8	1671.5	1660.0
47.5°	1320.5	1320.5	1320.5	1323.5	1320.5	1320.5	1320.5	1300.4	1294.7	1283.2	1268.8
50°	1004.1	1006.9	1009.9	1012.7	1009.9	1006.9	1004.1	998.3	995.4	989.6	986.8
52.5°	771.0	773.9	768.2	773.9	768.2	773.9	771.0	773.9	765.2	765.2	762.4
55°	584.1	581.2	584.1	586.9	584.1	581.2	584.1	584.1	581.2	581.2	581.2
57.5°	428.7	422.9	422.9	422.9	422.9	422.9	428.7	425.8	434.5	428.7	431.5
60°	319.4	322.2	322.2	325.1	322.2	322.2	319.4	325.1	325.1	328.0	328.0
62.5°	235.9	244.5	238.7	244.5	238.7	244.5	235.9	238.7	238.7	241.7	244.5
65°	152.5	152.5	152.5	155.4	152.5	152.5	152.5	155.4	158.2	155.4	164.0
67.5°	103.6	106.5	112.3	109.3	112.3	106.5	103.6	106.5	106.5	115.1	112.3
70°	83.5	74.8	74.8	83.5	74.8	74.8	83.5	77.7	74.8	80.5	77.7
72.5°	48.9	43.1	48.9	48.9	48.9	43.1	48.9	43.1	46.1	46.1	51.8
75°	25.9	23.0	20.1	28.8	20.1	23.0	25.9	25.9	25.9	25.9	28.8
77.5°	17.3	14.3	20.1	20.1	20.1	14.3	17.3	14.3	17.3	14.3	17.3
80°	8.6	11.5	8.6	14.3	8.6	11.5	8.6	14.3	8.6	11.5	11.5
82.5°	2.8	5.8	5.8	5.8	5.8	5.8	2.8	2.8	5.8	5.8	2.8
85°	0.0	5.8	2.8	2.8	2.8	5.8	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	0.0	0.0	2.8	0.0	0.0	2.8	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: P249059

CATALOG NUMBER: LD8B100D010 ER8B100950 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2
2.5°	5952.6	5943.9	5946.9	5929.6	5929.6	5923.8	5926.7	5912.3	5906.6	5900.8	5909.4
5°	6038.9	6024.6	6012.9	5987.1	5972.7	5955.5	5946.9	5923.8	5903.6	5886.4	5883.5
7.5°	6107.9	6076.3	6056.2	6021.6	5995.8	5975.6	5946.9	5915.1	5889.3	5866.2	5849.1
10°	6136.7	6105.1	6073.5	6030.2	6001.5	5964.0	5935.3	5895.0	5860.5	5828.9	5808.7
12.5°	6139.5	6099.3	6070.5	6021.6	5984.2	5943.9	5912.3	5866.2	5826.0	5794.3	5762.7
15°	6113.7	6076.3	6041.7	5990.0	5952.6	5915.1	5877.8	5828.9	5791.5	5754.1	5731.1
17.5°	6056.2	6021.6	5981.3	5932.4	5898.0	5863.4	5823.1	5782.9	5739.6	5699.4	5670.6
20°	5981.3	5943.9	5909.4	5860.5	5831.8	5794.3	5756.9	5713.8	5679.2	5639.0	5607.4
22.5°	5869.2	5834.6	5803.0	5774.2	5728.1	5699.4	5673.6	5624.6	5590.1	5552.6	5518.2
25°	5708.0	5673.6	5647.6	5613.0	5592.9	5561.3	5535.4	5492.3	5460.6	5426.1	5397.3
27.5°	5443.3	5423.2	5408.8	5388.6	5371.5	5357.0	5342.7	5308.1	5285.1	5253.5	5224.7
30°	5046.3	5043.4	5034.8	5026.1	5037.6	5037.6	5037.6	5031.9	5011.8	4988.7	4968.6
32.5°	4537.1	4542.9	4554.4	4563.0	4586.0	4611.9	4634.9	4646.4	4646.4	4632.0	4623.4
35°	3930.0	3938.7	3956.0	3978.9	4007.7	4039.3	4091.1	4102.7	4111.2	4111.2	4099.7
37.5°	3299.9	3297.1	3314.4	3334.5	3351.8	3374.8	3412.2	3420.8	3435.2	3429.5	3417.9
40°	2687.1	2672.8	2667.0	2672.8	2692.9	2684.3	2692.9	2687.1	2687.1	2667.0	2667.0
42.5°	2120.3	2103.2	2091.6	2083.0	2083.0	2062.8	2048.4	2034.1	2025.5	2011.0	2008.2
45°	1634.2	1614.0	1599.6	1593.8	1585.3	1559.4	1542.1	1524.8	1504.7	1499.0	1501.8
47.5°	1268.8	1248.6	1242.8	1228.5	1214.1	1199.7	1188.2	1168.1	1165.1	1153.7	1165.1
50°	978.2	972.5	963.8	958.0	949.4	937.9	926.4	914.9	909.1	909.1	912.0
52.5°	759.6	762.4	753.8	745.1	739.4	739.4	725.0	722.1	722.1	710.6	722.1
55°	581.2	578.3	581.2	575.4	575.4	566.8	566.8	558.1	558.1	549.5	555.3
57.5°	425.8	431.5	425.8	428.7	434.5	425.8	422.9	414.2	420.0	414.2	417.2
60°	330.9	330.9	330.9	328.0	328.0	325.1	325.1	322.2	322.2	316.4	322.2
62.5°	244.5	247.4	247.4	247.4	250.3	247.4	244.5	247.4	244.5	244.5	247.4
65°	161.2	164.0	164.0	161.2	166.9	161.2	164.0	166.9	169.7	166.9	169.7
67.5°	109.3	109.3	112.3	115.1	112.3	115.1	117.9	115.1	117.9	123.8	117.9
70°	80.5	83.5	83.5	80.5	77.7	80.5	77.7	86.3	86.3	86.3	92.0
72.5°	51.8	51.8	48.9	48.9	48.9	48.9	48.9	57.6	51.8	48.9	54.7
75°	28.8	31.6	31.6	23.0	25.9	31.6	23.0	25.9	34.6	28.8	34.6
77.5°	17.3	17.3	17.3	17.3	17.3	17.3	23.0	20.1	20.1	20.1	23.0
80°	14.3	11.5	11.5	8.6	11.5	11.5	11.5	17.3	14.3	14.3	17.3
82.5°	5.8	5.8	2.8	0.0	5.8	5.8	5.8	5.8	5.8	5.8	11.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	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: P249059

CATALOG NUMBER: LD8B100D010 ER8B100950 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2
2.5°	5886.4	5886.4	5883.5	5877.8	5866.2	5866.2	5863.4	5854.7	5849.1	5846.1	5846.1
5°	5857.6	5846.1	5834.6	5803.0	5803.0	5797.2	5780.0	5768.4	5762.7	5748.3	5742.6
7.5°	5831.8	5797.2	5777.1	5756.9	5731.1	5719.5	5699.4	5690.7	5670.6	5656.3	5647.6
10°	5768.4	5745.4	5719.5	5687.9	5667.8	5644.8	5621.7	5604.5	5578.6	5564.1	5552.6
12.5°	5725.3	5690.7	5667.8	5633.2	5598.7	5578.6	5547.0	5526.8	5500.9	5472.1	5454.8
15°	5685.0	5647.6	5616.0	5578.6	5541.2	5518.2	5480.8	5457.8	5420.4	5391.6	5371.5
17.5°	5624.6	5592.9	5558.4	5512.4	5477.9	5449.1	5408.8	5380.1	5345.5	5308.1	5288.0
20°	5561.3	5523.9	5489.4	5443.3	5408.8	5374.3	5334.0	5302.4	5262.0	5227.6	5204.6
22.5°	5477.9	5434.7	5405.9	5359.9	5319.6	5282.3	5244.9	5207.4	5170.0	5141.3	5115.3
25°	5357.0	5310.9	5279.3	5241.9	5204.6	5175.8	5129.8	5106.8	5069.4	5043.4	5017.5
27.5°	5184.4	5149.9	5121.1	5083.7	5052.1	5029.1	4994.5	4971.6	4939.8	4916.8	4896.7
30°	4931.3	4902.5	4876.6	4839.2	4816.2	4796.1	4764.3	4744.2	4721.2	4695.3	4689.6
32.5°	4591.8	4568.7	4542.9	4516.9	4499.6	4488.2	4462.2	4450.7	4427.8	4413.3	4399.0
35°	4079.6	4059.5	4045.1	4033.7	4027.9	4030.7	4025.0	4036.5	4042.2	4039.3	4042.2
37.5°	3409.3	3397.7	3403.5	3412.2	3441.0	3478.4	3512.8	3564.6	3599.2	3633.8	3665.4
40°	2661.3	2669.9	2692.9	2744.6	2819.5	2903.0	2980.7	3078.5	3176.3	3245.3	3308.6
42.5°	2008.2	2034.1	2091.6	2166.4	2278.7	2402.3	2523.2	2667.0	2785.0	2900.0	2980.7
45°	1510.5	1544.9	1619.8	1723.4	1847.0	1990.9	2143.4	2304.5	2445.5	2563.5	2652.6
47.5°	1176.8	1208.4	1283.2	1392.5	1544.9	1694.6	1852.8	2019.7	2166.4	2281.5	2359.2
50°	929.3	969.5	1035.7	1150.8	1303.3	1461.6	1625.6	1789.5	1927.7	2025.5	2094.5
52.5°	730.8	768.2	831.4	952.3	1107.7	1265.9	1418.3	1579.5	1700.3	1795.3	1841.3
55°	566.8	601.3	667.4	768.2	914.9	1070.3	1222.7	1360.9	1473.0	1542.1	1585.3
57.5°	431.5	457.5	503.5	604.2	736.6	880.3	1009.9	1148.0	1234.3	1283.2	1311.9
60°	328.0	348.2	397.1	474.8	595.5	719.3	828.6	932.2	1001.3	1041.5	1070.3
62.5°	247.4	270.5	304.9	371.1	463.1	563.9	655.9	733.6	791.2	817.1	837.2
65°	169.7	187.0	212.9	264.7	342.4	414.2	486.2	543.8	581.2	610.0	621.5
67.5°	126.6	138.1	152.5	192.8	247.4	304.9	353.8	394.1	434.5	446.0	466.1
70°	95.0	103.6	117.9	146.7	178.3	218.6	259.0	282.0	310.7	330.9	336.7
72.5°	60.4	63.2	77.7	95.0	120.8	146.7	172.7	192.8	210.1	221.6	227.3
75°	34.6	51.8	51.8	69.0	86.3	97.8	115.1	129.4	138.1	146.7	146.7
77.5°	23.0	31.6	34.6	43.1	51.8	66.2	80.5	89.2	97.8	100.7	100.7
80°	20.1	23.0	23.0	31.6	37.4	48.9	57.6	60.4	66.2	69.0	74.8
82.5°	8.6	11.5	14.3	23.0	25.9	25.9	34.6	37.4	43.1	46.1	46.1
85°	2.8	5.8	5.8	8.6	14.3	17.3	20.1	23.0	25.9	25.9	28.8
87.5°	2.8	2.8	0.0	2.8	5.8	5.8	11.5	11.5	11.5	17.3	17.3
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: P249059

CATALOG NUMBER: LD8B100D010 ER8B100950 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2	5892.2
2.5°	5840.4	5843.3	5831.8	5828.9	5823.1	5826.0	5831.8
5°	5733.9	5736.8	5725.3	5713.8	5713.8	5710.9	5713.8
7.5°	5633.2	5636.1	5618.8	5613.0	5601.6	5604.5	5604.5
10°	5532.5	5532.5	5506.7	5503.7	5495.1	5492.3	5492.3
12.5°	5434.7	5426.1	5405.9	5394.4	5400.2	5382.9	5382.9
15°	5348.4	5334.0	5308.1	5299.5	5285.1	5279.3	5279.3
17.5°	5259.2	5247.7	5224.7	5207.4	5190.2	5187.3	5190.2
20°	5172.9	5161.4	5132.6	5121.1	5106.8	5106.8	5101.0
22.5°	5086.5	5075.1	5049.2	5040.6	5020.5	5020.5	5023.3
25°	4997.4	4988.7	4959.9	4954.3	4951.4	4939.8	4945.6
27.5°	4876.6	4870.8	4847.8	4839.2	4827.7	4824.8	4830.5
30°	4655.0	4646.4	4629.2	4620.6	4600.4	4603.3	4608.9
32.5°	4378.9	4367.4	4344.3	4335.6	4318.5	4312.7	4315.5
35°	4033.7	4025.0	4004.9	4004.9	3987.6	3981.8	3987.6
37.5°	3682.7	3691.2	3682.7	3691.2	3682.7	3679.7	3682.7
40°	3351.8	3383.4	3389.1	3420.8	3409.3	3426.5	3423.7
42.5°	3035.3	3087.0	3107.3	3133.1	3127.4	3138.9	3147.5
45°	2715.9	2759.1	2779.2	2796.5	2799.4	2805.2	2808.0
47.5°	2413.8	2448.4	2451.2	2471.3	2468.5	2468.5	2477.1
50°	2131.9	2154.9	2160.6	2175.0	2163.6	2157.8	2160.6
52.5°	1870.1	1893.1	1887.3	1893.1	1878.8	1872.9	1875.8
55°	1602.5	1614.0	1614.0	1614.0	1596.8	1596.8	1596.8
57.5°	1329.2	1332.1	1326.3	1329.2	1326.3	1309.0	1306.2
60°	1078.9	1078.9	1076.0	1078.9	1070.3	1061.6	1061.6
62.5°	842.9	848.7	860.2	848.7	842.9	848.7	840.1
65°	630.1	641.6	638.6	644.4	641.6	641.6	635.8
67.5°	474.8	477.6	480.4	483.4	483.4	483.4	483.4
70°	348.2	356.8	353.8	353.8	353.8	353.8	371.1
72.5°	233.1	244.5	241.7	247.4	247.4	253.2	247.4
75°	158.2	169.7	164.0	172.7	169.7	164.0	178.3
77.5°	106.5	112.3	115.1	117.9	115.1	112.3	115.1
80°	74.8	80.5	77.7	80.5	80.5	80.5	83.5
82.5°	46.1	54.7	51.8	54.7	51.8	54.7	54.7
85°	31.6	34.6	28.8	34.6	31.6	31.6	37.4
87.5°	20.1	17.3	17.3	20.1	17.3	20.1	17.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)