

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: P249070

Luminaire Tested: **LD8B150D010 ER8B1509727 8LBSW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249070  
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: LD8B150D010 ER8B1509727 8LBSW0MW  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11197.0 lumens  
Efficiency: N/A  
Efficacy: 70.6 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

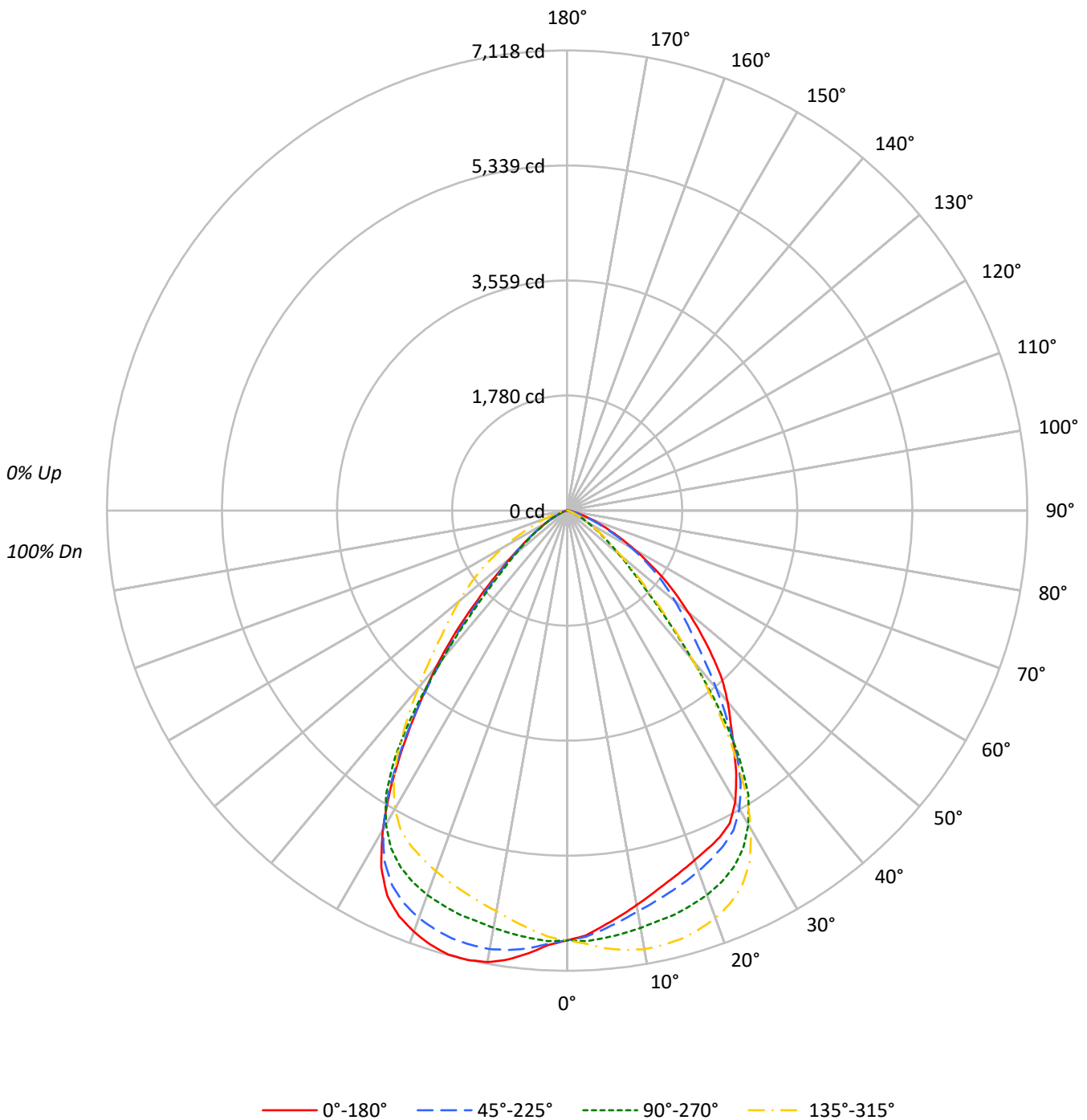
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P249070

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBSW0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P249070

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBSW0MW

**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°				



TEST NUMBER: P249070

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBSW0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	632.7	5.7
10°-20°	1832.2	16.4
20°-30°	2774.3	24.8
30°-40°	2780.5	24.8
40°-50°	1746.0	15.6
50°-60°	930.5	8.3
60°-70°	382.6	3.4
70°-80°	101.1	0.9
80°-90°	17.1	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°	5239.2	46.8
0°-40°	8019.7	71.6
0°-60°	10696.2	95.5
0°-90°	11197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11197.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	6647	6647	6647	6647	6647	
5°	6446	6638	6875	6638	6446	608
15°	5956	6466	7108	6466	5956	1685
25°	5580	6089	6579	6089	5580	2559
35°	4499	4625	4388	4625	4499	2818
45°	3168	1694	1960	1694	3168	2436
55°	1801	626	662	626	1801	1606
65°	717	191	175	191	717	744
75°	201	39	32	39	201	228
85°	42	0	3	0	42	46
90°	0	0	0	0	0	



TEST NUMBER: P249070

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBSW0MW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3
2.5°	6579.2	6572.6	6569.4	6576.0	6579.2	6592.1	6588.9	6595.3	6595.3	6598.7	6605.1
5°	6446.1	6442.8	6446.1	6446.1	6459.1	6472.0	6468.8	6478.6	6485.0	6501.3	6507.7
7.5°	6322.8	6322.8	6319.5	6332.4	6339.0	6358.5	6355.1	6371.4	6381.2	6397.3	6420.1
10°	6196.1	6196.1	6199.4	6209.1	6212.4	6241.6	6241.6	6264.3	6277.2	6293.5	6322.8
12.5°	6072.8	6072.8	6092.3	6085.8	6098.8	6121.5	6131.2	6153.9	6173.4	6205.9	6235.2
15°	5955.9	5955.9	5962.5	5978.6	5988.4	6017.7	6033.8	6059.9	6082.6	6115.0	6157.3
17.5°	5855.3	5852.1	5855.3	5874.8	5894.3	5920.3	5933.2	5965.7	5988.4	6030.6	6069.6
20°	5754.7	5761.3	5761.3	5777.4	5790.4	5822.9	5835.8	5871.6	5897.6	5936.4	5982.0
22.5°	5667.1	5663.9	5663.9	5686.6	5696.4	5725.5	5738.4	5770.9	5800.2	5832.6	5874.8
25°	5579.5	5572.9	5586.0	5589.2	5595.6	5628.1	5637.8	5660.5	5689.8	5719.1	5761.3
27.5°	5449.6	5443.2	5446.4	5459.4	5469.1	5495.0	5501.6	5524.3	5547.0	5572.9	5608.7
30°	5199.6	5193.2	5190.0	5212.7	5222.5	5241.9	5251.6	5290.6	5297.0	5326.3	5352.2
32.5°	4868.6	4865.4	4871.9	4891.3	4901.0	4927.1	4940.1	4962.8	4978.9	4995.2	5021.1
35°	4498.6	4492.1	4498.6	4518.2	4518.2	4540.9	4550.6	4560.2	4557.0	4560.2	4553.8
37.5°	4154.6	4151.3	4154.6	4164.3	4154.6	4164.3	4154.6	4135.1	4099.5	4060.4	4021.4
40°	3862.5	3865.7	3846.3	3859.2	3823.4	3817.0	3781.4	3732.6	3661.3	3583.4	3473.0
42.5°	3550.9	3541.1	3528.2	3534.6	3505.5	3482.6	3424.3	3362.7	3271.7	3142.0	3008.8
45°	3167.9	3164.7	3158.1	3154.9	3135.4	3112.7	3063.9	2992.6	2892.0	2758.9	2599.8
47.5°	2794.6	2784.9	2784.9	2788.1	2765.3	2762.1	2723.1	2661.5	2573.9	2444.0	2278.5
50°	2437.5	2434.3	2440.8	2453.8	2437.5	2431.1	2405.2	2362.9	2285.1	2174.7	2018.8
52.5°	2116.2	2113.0	2119.5	2135.7	2129.2	2135.7	2109.8	2077.3	2025.3	1918.2	1781.9
55°	1801.4	1801.4	1801.4	1820.8	1820.8	1820.8	1807.8	1788.5	1739.7	1661.8	1535.3
57.5°	1473.6	1476.8	1496.3	1499.5	1496.3	1502.8	1499.5	1480.0	1447.7	1392.5	1295.1
60°	1197.7	1197.7	1207.5	1217.2	1213.9	1217.2	1217.2	1207.5	1175.0	1129.6	1051.7
62.5°	947.7	957.5	951.0	957.5	970.5	957.5	951.0	944.5	921.8	892.6	827.6
65°	717.3	723.8	723.8	727.0	720.5	723.8	710.9	701.1	688.2	655.7	613.5
67.5°	545.3	545.3	545.3	545.3	542.0	538.8	535.6	525.8	503.1	490.2	444.6
70°	418.7	399.2	399.2	399.2	399.2	402.5	392.8	379.8	373.3	350.6	318.1
72.5°	279.1	285.6	279.1	279.1	272.7	275.9	262.9	256.4	250.0	237.0	217.5
75°	201.2	185.0	191.4	194.8	185.0	191.4	178.5	165.5	165.5	155.8	146.0
77.5°	129.9	126.7	129.9	133.1	129.9	126.7	120.1	113.6	113.6	110.4	100.6
80°	94.2	90.8	90.8	90.8	87.6	90.8	84.4	84.4	77.9	74.7	68.1
82.5°	61.7	61.7	58.4	61.7	58.4	61.7	52.0	52.0	52.0	48.6	42.2
85°	42.2	35.7	35.7	39.0	32.5	39.0	35.7	32.5	29.3	29.3	25.9
87.5°	19.5	22.7	19.5	22.7	19.5	19.5	22.7	19.5	19.5	13.0	13.0
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: P249070

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3
2.5°	6614.8	6618.0	6618.0	6631.1	6637.6	6640.8	6640.8	6666.8	6657.1	6663.6	6670.0
5°	6520.8	6540.2	6546.7	6546.7	6582.4	6595.3	6608.3	6637.6	6640.8	6660.3	6683.0
7.5°	6429.8	6452.5	6465.6	6494.7	6517.4	6540.2	6579.2	6598.7	6618.0	6644.1	6673.2
10°	6342.2	6368.2	6394.1	6416.8	6452.5	6481.8	6507.7	6553.1	6576.0	6611.6	6650.5
12.5°	6257.9	6293.5	6316.2	6355.1	6394.1	6420.1	6459.1	6501.3	6537.0	6572.6	6618.0
15°	6183.2	6225.4	6251.3	6293.5	6335.8	6371.4	6413.6	6465.6	6491.5	6533.7	6576.0
17.5°	6102.0	6147.5	6180.0	6218.9	6270.8	6309.7	6345.5	6397.3	6429.8	6475.2	6524.0
20°	6017.7	6063.1	6102.0	6141.0	6192.9	6231.8	6274.0	6326.0	6361.7	6407.1	6446.1
22.5°	5917.1	5959.3	6001.4	6046.8	6098.8	6131.2	6180.0	6225.4	6264.3	6306.5	6345.5
25°	5787.2	5839.2	5871.6	5913.7	5955.9	5991.6	6043.6	6089.0	6121.5	6160.5	6196.1
27.5°	5634.6	5673.6	5699.6	5735.2	5777.4	5809.9	5848.8	5894.3	5926.8	5962.5	5988.4
30°	5374.9	5410.7	5433.4	5459.4	5501.6	5530.8	5563.3	5605.4	5628.1	5654.1	5676.8
32.5°	5034.1	5063.4	5076.3	5095.8	5125.1	5154.2	5180.3	5215.9	5225.7	5241.9	5241.9
35°	4540.9	4547.3	4544.1	4550.6	4563.6	4579.7	4602.5	4625.2	4638.1	4638.1	4628.5
37.5°	3963.1	3924.2	3882.0	3849.5	3839.7	3833.2	3846.3	3855.9	3869.0	3875.4	3859.2
40°	3362.7	3275.0	3180.8	3096.4	3038.0	3012.1	3002.3	3008.8	3008.8	3031.5	3031.5
42.5°	2846.6	2710.2	2570.7	2444.0	2359.6	2294.8	2265.6	2265.6	2268.8	2285.1	2294.8
45°	2418.1	2246.1	2083.7	1944.3	1827.4	1742.9	1704.0	1694.3	1691.1	1697.5	1720.2
47.5°	2090.3	1911.8	1742.9	1571.0	1447.7	1363.2	1327.6	1314.5	1301.5	1314.5	1317.8
50°	1833.9	1648.9	1470.4	1298.3	1168.4	1093.8	1048.3	1028.8	1025.6	1025.6	1032.2
52.5°	1600.1	1428.2	1249.7	1074.4	938.0	866.7	824.4	814.7	801.7	814.7	814.7
55°	1379.4	1207.5	1032.2	866.7	753.0	678.4	639.4	626.4	619.9	629.6	629.6
57.5°	1139.3	993.2	831.0	681.6	568.1	516.1	486.8	470.7	467.3	473.9	467.3
60°	934.8	811.5	671.9	535.6	448.0	392.8	370.1	363.5	357.0	363.5	363.5
62.5°	740.0	636.2	522.5	418.7	344.0	305.1	279.1	279.1	275.9	275.9	279.1
65°	548.6	467.3	386.2	298.6	240.2	211.0	191.4	191.4	188.2	191.4	188.2
67.5°	399.2	344.0	279.1	217.5	172.1	155.8	142.8	133.1	139.6	133.1	129.9
70°	292.2	246.6	201.2	165.5	133.1	116.9	107.1	103.8	97.4	97.4	97.4
72.5°	194.8	165.5	136.3	107.1	87.6	71.3	68.1	61.7	55.2	58.4	64.9
75°	129.9	110.4	97.4	77.9	58.4	58.4	39.0	39.0	32.5	39.0	29.3
77.5°	90.8	74.7	58.4	48.6	39.0	35.7	25.9	25.9	22.7	22.7	22.7
80°	64.9	55.2	42.2	35.7	25.9	25.9	22.7	19.5	16.2	16.2	19.5
82.5°	39.0	29.3	29.3	25.9	16.2	13.0	9.8	13.0	6.5	6.5	6.5
85°	22.7	19.5	16.2	9.8	6.5	6.5	3.2	0.0	3.2	3.2	0.0
87.5°	13.0	6.5	6.5	3.2	0.0	3.2	3.2	0.0	0.0	0.0	6.5
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: P249070

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3
2.5°	6686.3	6683.0	6689.5	6689.5	6709.0	6705.7	6715.4	6715.4	6709.0	6712.2	6725.2
5°	6709.0	6718.8	6738.2	6754.4	6783.6	6796.7	6812.8	6829.1	6832.3	6842.1	6851.8
7.5°	6709.0	6741.5	6764.2	6793.3	6832.3	6855.0	6890.7	6920.0	6932.9	6949.1	6968.6
10°	6695.9	6728.4	6770.6	6803.1	6851.8	6887.5	6923.2	6968.6	6988.1	7014.0	7040.1
12.5°	6670.0	6705.7	6751.1	6793.3	6848.5	6881.0	6926.4	6968.6	6997.9	7033.5	7062.8
15°	6631.1	6673.2	6715.4	6757.7	6816.0	6855.0	6897.3	6945.9	6975.2	7014.0	7040.1
17.5°	6569.4	6614.8	6653.9	6692.7	6747.9	6793.3	6832.3	6877.8	6907.0	6939.5	6975.2
20°	6494.7	6537.0	6579.2	6611.6	6666.8	6705.7	6747.9	6790.1	6812.8	6819.4	6874.6
22.5°	6400.7	6429.8	6462.3	6514.2	6546.7	6582.4	6621.4	6660.3	6683.0	6718.8	6738.2
25°	6244.8	6274.0	6309.7	6332.4	6371.4	6400.7	6439.6	6481.8	6494.7	6520.8	6540.2
27.5°	6027.4	6043.6	6059.9	6079.2	6102.0	6118.3	6141.0	6160.5	6173.4	6186.4	6199.4
30°	5683.3	5683.3	5683.3	5670.3	5680.1	5689.8	5693.0	5689.8	5689.8	5686.6	5686.6
32.5°	5228.9	5203.0	5173.7	5147.8	5138.0	5125.1	5118.5	5108.8	5092.6	5082.9	5086.1
35°	4615.4	4557.0	4521.4	4488.9	4463.0	4443.5	4433.7	4424.0	4420.8	4407.8	4394.7
37.5°	3849.5	3807.3	3781.4	3761.9	3739.1	3719.6	3722.8	3726.2	3735.8	3729.4	3732.6
40°	3038.0	3028.3	3038.0	3015.3	3008.8	3015.3	3031.5	3054.3	3067.3	3080.2	3102.9
42.5°	2311.0	2327.1	2350.0	2350.0	2359.6	2372.7	2392.1	2427.9	2447.2	2470.0	2496.0
45°	1739.7	1759.2	1788.5	1798.1	1804.6	1820.8	1843.7	1872.8	1885.7	1905.2	1928.0
47.5°	1340.5	1353.5	1369.6	1385.9	1402.1	1408.7	1431.4	1431.4	1447.7	1460.6	1467.0
50°	1045.1	1058.1	1071.1	1080.8	1087.4	1097.1	1103.5	1113.3	1116.5	1123.0	1126.2
52.5°	817.9	834.2	834.2	840.6	850.4	860.1	856.9	860.1	863.3	863.3	873.1
55°	639.4	639.4	649.2	649.2	655.7	652.4	655.7	655.7	655.7	655.7	658.9
57.5°	477.1	480.4	490.2	483.6	480.4	486.8	480.4	486.8	483.6	490.2	480.4
60°	366.7	366.7	370.1	370.1	373.3	373.3	373.3	370.1	370.1	366.7	366.7
62.5°	275.9	279.1	282.4	279.1	279.1	279.1	275.9	275.9	272.7	269.3	269.3
65°	185.0	181.8	188.2	181.8	185.0	185.0	181.8	185.0	175.3	178.5	175.3
67.5°	133.1	129.9	126.7	129.9	126.7	123.3	123.3	126.7	129.9	120.1	120.1
70°	87.6	90.8	87.6	90.8	94.2	94.2	90.8	87.6	90.8	84.4	87.6
72.5°	55.2	55.2	55.2	55.2	55.2	58.4	58.4	58.4	52.0	52.0	48.6
75°	25.9	35.7	29.3	25.9	35.7	35.7	32.5	32.5	29.3	29.3	29.3
77.5°	25.9	19.5	19.5	19.5	19.5	19.5	19.5	19.5	16.2	19.5	16.2
80°	13.0	13.0	13.0	9.8	13.0	13.0	16.2	13.0	13.0	9.8	16.2
82.5°	6.5	6.5	6.5	0.0	3.2	6.5	6.5	3.2	6.5	6.5	3.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P249070

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3
2.5°	6722.0	6718.8	6722.0	6725.2	6722.0	6718.8	6722.0	6725.2	6712.2	6709.0	6715.4
5°	6864.8	6864.8	6871.2	6874.6	6871.2	6864.8	6864.8	6851.8	6842.1	6832.3	6829.1
7.5°	6988.1	6994.7	7001.1	7004.3	7001.1	6994.7	6988.1	6968.6	6949.1	6932.9	6920.0
10°	7062.8	7072.5	7085.5	7091.9	7085.5	7072.5	7062.8	7040.1	7014.0	6988.1	6968.6
12.5°	7095.3	7105.0	7121.2	7118.0	7121.2	7105.0	7095.3	7062.8	7033.5	6997.9	6968.6
15°	7072.5	7085.5	7101.7	7108.2	7101.7	7085.5	7072.5	7040.1	7014.0	6975.2	6945.9
17.5°	7001.1	7020.6	7030.3	7040.1	7030.3	7020.6	7001.1	6975.2	6939.5	6907.0	6877.8
20°	6903.7	6916.8	6929.7	6932.9	6929.7	6916.8	6903.7	6874.6	6819.4	6812.8	6790.1
22.5°	6764.2	6774.0	6803.1	6793.3	6803.1	6774.0	6764.2	6738.2	6718.8	6683.0	6660.3
25°	6562.9	6572.6	6576.0	6579.2	6576.0	6572.6	6562.9	6540.2	6520.8	6494.7	6481.8
27.5°	6215.6	6215.6	6222.1	6225.4	6222.1	6215.6	6215.6	6199.4	6186.4	6173.4	6160.5
30°	5689.8	5689.8	5689.8	5706.1	5689.8	5689.8	5689.8	5686.6	5686.6	5689.8	5689.8
32.5°	5082.9	5076.3	5069.9	5076.3	5069.9	5076.3	5082.9	5086.1	5082.9	5092.6	5108.8
35°	4394.7	4391.5	4401.3	4388.3	4401.3	4391.5	4394.7	4394.7	4407.8	4420.8	4424.0
37.5°	3735.8	3729.4	3742.3	3729.4	3742.3	3729.4	3735.8	3732.6	3729.4	3735.8	3726.2
40°	3109.5	3115.9	3115.9	3142.0	3115.9	3115.9	3109.5	3102.9	3080.2	3067.3	3054.3
42.5°	2509.0	2528.5	2521.9	2541.4	2521.9	2528.5	2509.0	2496.0	2470.0	2447.2	2427.9
45°	1940.9	1954.0	1954.0	1960.4	1954.0	1954.0	1940.9	1928.0	1905.2	1885.7	1872.8
47.5°	1489.8	1489.8	1489.8	1493.1	1489.8	1489.8	1489.8	1467.0	1460.6	1447.7	1431.4
50°	1132.8	1136.0	1139.3	1142.5	1139.3	1136.0	1132.8	1126.2	1123.0	1116.5	1113.3
52.5°	869.9	873.1	866.7	873.1	866.7	873.1	869.9	873.1	863.3	863.3	860.1
55°	658.9	655.7	658.9	662.1	658.9	655.7	658.9	658.9	655.7	655.7	655.7
57.5°	483.6	477.1	477.1	477.1	477.1	477.1	483.6	480.4	490.2	483.6	486.8
60°	360.3	363.5	363.5	366.7	363.5	363.5	360.3	366.7	366.7	370.1	370.1
62.5°	266.1	275.9	269.3	275.9	269.3	275.9	266.1	269.3	269.3	272.7	275.9
65°	172.1	172.1	172.1	175.3	172.1	172.1	172.1	175.3	178.5	175.3	185.0
67.5°	116.9	120.1	126.7	123.3	126.7	120.1	116.9	120.1	120.1	129.9	126.7
70°	94.2	84.4	84.4	94.2	84.4	84.4	94.2	87.6	84.4	90.8	87.6
72.5°	55.2	48.6	55.2	55.2	55.2	48.6	55.2	48.6	52.0	52.0	58.4
75°	29.3	25.9	22.7	32.5	22.7	25.9	29.3	29.3	29.3	29.3	32.5
77.5°	19.5	16.2	22.7	22.7	22.7	16.2	19.5	16.2	19.5	16.2	19.5
80°	9.8	13.0	9.8	16.2	9.8	13.0	9.8	16.2	9.8	13.0	13.0
82.5°	3.2	6.5	6.5	6.5	6.5	6.5	3.2	3.2	6.5	6.5	3.2
85°	0.0	6.5	3.2	3.2	3.2	6.5	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	0.0	0.0	3.2	0.0	0.0	3.2	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P249070

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3
2.5°	6715.4	6705.7	6709.0	6689.5	6689.5	6683.0	6686.3	6670.0	6663.6	6657.1	6666.8
5°	6812.8	6796.7	6783.6	6754.4	6738.2	6718.8	6709.0	6683.0	6660.3	6640.8	6637.6
7.5°	6890.7	6855.0	6832.3	6793.3	6764.2	6741.5	6709.0	6673.2	6644.1	6618.0	6598.7
10°	6923.2	6887.5	6851.8	6803.1	6770.6	6728.4	6695.9	6650.5	6611.6	6576.0	6553.1
12.5°	6926.4	6881.0	6848.5	6793.3	6751.1	6705.7	6670.0	6618.0	6572.6	6537.0	6501.3
15°	6897.3	6855.0	6816.0	6757.7	6715.4	6673.2	6631.1	6576.0	6533.7	6491.5	6465.6
17.5°	6832.3	6793.3	6747.9	6692.7	6653.9	6614.8	6569.4	6524.0	6475.2	6429.8	6397.3
20°	6747.9	6705.7	6666.8	6611.6	6579.2	6537.0	6494.7	6446.1	6407.1	6361.7	6326.0
22.5°	6621.4	6582.4	6546.7	6514.2	6462.3	6429.8	6400.7	6345.5	6306.5	6264.3	6225.4
25°	6439.6	6400.7	6371.4	6332.4	6309.7	6274.0	6244.8	6196.1	6160.5	6121.5	6089.0
27.5°	6141.0	6118.3	6102.0	6079.2	6059.9	6043.6	6027.4	5988.4	5962.5	5926.8	5894.3
30°	5693.0	5689.8	5680.1	5670.3	5683.3	5683.3	5683.3	5676.8	5654.1	5628.1	5605.4
32.5°	5118.5	5125.1	5138.0	5147.8	5173.7	5203.0	5228.9	5241.9	5241.9	5225.7	5215.9
35°	4433.7	4443.5	4463.0	4488.9	4521.4	4557.0	4615.4	4628.5	4638.1	4638.1	4625.2
37.5°	3722.8	3719.6	3739.1	3761.9	3781.4	3807.3	3849.5	3859.2	3875.4	3869.0	3855.9
40°	3031.5	3015.3	3008.8	3015.3	3038.0	3028.3	3038.0	3031.5	3031.5	3008.8	3008.8
42.5°	2392.1	2372.7	2359.6	2350.0	2350.0	2327.1	2311.0	2294.8	2285.1	2268.8	2265.6
45°	1843.7	1820.8	1804.6	1798.1	1788.5	1759.2	1739.7	1720.2	1697.5	1691.1	1694.3
47.5°	1431.4	1408.7	1402.1	1385.9	1369.6	1353.5	1340.5	1317.8	1314.5	1301.5	1314.5
50°	1103.5	1097.1	1087.4	1080.8	1071.1	1058.1	1045.1	1032.2	1025.6	1025.6	1028.8
52.5°	856.9	860.1	850.4	840.6	834.2	834.2	817.9	814.7	814.7	801.7	814.7
55°	655.7	652.4	655.7	649.2	649.2	639.4	639.4	629.6	629.6	619.9	626.4
57.5°	480.4	486.8	480.4	483.6	490.2	480.4	477.1	467.3	473.9	467.3	470.7
60°	373.3	373.3	373.3	370.1	370.1	366.7	366.7	363.5	363.5	357.0	363.5
62.5°	275.9	279.1	279.1	279.1	282.4	279.1	275.9	279.1	275.9	275.9	279.1
65°	181.8	185.0	185.0	181.8	188.2	181.8	185.0	188.2	191.4	188.2	191.4
67.5°	123.3	123.3	126.7	129.9	126.7	129.9	133.1	129.9	133.1	139.6	133.1
70°	90.8	94.2	94.2	90.8	87.6	90.8	87.6	97.4	97.4	97.4	103.8
72.5°	58.4	58.4	55.2	55.2	55.2	55.2	55.2	64.9	58.4	55.2	61.7
75°	32.5	35.7	35.7	25.9	29.3	35.7	25.9	29.3	39.0	32.5	39.0
77.5°	19.5	19.5	19.5	19.5	19.5	19.5	25.9	22.7	22.7	22.7	25.9
80°	16.2	13.0	13.0	9.8	13.0	13.0	13.0	19.5	16.2	16.2	19.5
82.5°	6.5	6.5	3.2	0.0	6.5	6.5	6.5	6.5	6.5	6.5	13.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	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: P249070

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3
2.5°	6640.8	6640.8	6637.6	6631.1	6618.0	6618.0	6614.8	6605.1	6598.7	6595.3	6595.3
5°	6608.3	6595.3	6582.4	6546.7	6546.7	6540.2	6520.8	6507.7	6501.3	6485.0	6478.6
7.5°	6579.2	6540.2	6517.4	6494.7	6465.6	6452.5	6429.8	6420.1	6397.3	6381.2	6371.4
10°	6507.7	6481.8	6452.5	6416.8	6394.1	6368.2	6342.2	6322.8	6293.5	6277.2	6264.3
12.5°	6459.1	6420.1	6394.1	6355.1	6316.2	6293.5	6257.9	6235.2	6205.9	6173.4	6153.9
15°	6413.6	6371.4	6335.8	6293.5	6251.3	6225.4	6183.2	6157.3	6115.0	6082.6	6059.9
17.5°	6345.5	6309.7	6270.8	6218.9	6180.0	6147.5	6102.0	6069.6	6030.6	5988.4	5965.7
20°	6274.0	6231.8	6192.9	6141.0	6102.0	6063.1	6017.7	5982.0	5936.4	5897.6	5871.6
22.5°	6180.0	6131.2	6098.8	6046.8	6001.4	5959.3	5917.1	5874.8	5832.6	5800.2	5770.9
25°	6043.6	5991.6	5955.9	5913.7	5871.6	5839.2	5787.2	5761.3	5719.1	5689.8	5660.5
27.5°	5848.8	5809.9	5777.4	5735.2	5699.6	5673.6	5634.6	5608.7	5572.9	5547.0	5524.3
30°	5563.3	5530.8	5501.6	5459.4	5433.4	5410.7	5374.9	5352.2	5326.3	5297.0	5290.6
32.5°	5180.3	5154.2	5125.1	5095.8	5076.3	5063.4	5034.1	5021.1	4995.2	4978.9	4962.8
35°	4602.5	4579.7	4563.6	4550.6	4544.1	4547.3	4540.9	4553.8	4560.2	4557.0	4560.2
37.5°	3846.3	3833.2	3839.7	3849.5	3882.0	3924.2	3963.1	4021.4	4060.4	4099.5	4135.1
40°	3002.3	3012.1	3038.0	3096.4	3180.8	3275.0	3362.7	3473.0	3583.4	3661.3	3732.6
42.5°	2265.6	2294.8	2359.6	2444.0	2570.7	2710.2	2846.6	3008.8	3142.0	3271.7	3362.7
45°	1704.0	1742.9	1827.4	1944.3	2083.7	2246.1	2418.1	2599.8	2758.9	2892.0	2992.6
47.5°	1327.6	1363.2	1447.7	1571.0	1742.9	1911.8	2090.3	2278.5	2444.0	2573.9	2661.5
50°	1048.3	1093.8	1168.4	1298.3	1470.4	1648.9	1833.9	2018.8	2174.7	2285.1	2362.9
52.5°	824.4	866.7	938.0	1074.4	1249.7	1428.2	1600.1	1781.9	1918.2	2025.3	2077.3
55°	639.4	678.4	753.0	866.7	1032.2	1207.5	1379.4	1535.3	1661.8	1739.7	1788.5
57.5°	486.8	516.1	568.1	681.6	831.0	993.2	1139.3	1295.1	1392.5	1447.7	1480.0
60°	370.1	392.8	448.0	535.6	671.9	811.5	934.8	1051.7	1129.6	1175.0	1207.5
62.5°	279.1	305.1	344.0	418.7	522.5	636.2	740.0	827.6	892.6	921.8	944.5
65°	191.4	211.0	240.2	298.6	386.2	467.3	548.6	613.5	655.7	688.2	701.1
67.5°	142.8	155.8	172.1	217.5	279.1	344.0	399.2	444.6	490.2	503.1	525.8
70°	107.1	116.9	133.1	165.5	201.2	246.6	292.2	318.1	350.6	373.3	379.8
72.5°	68.1	71.3	87.6	107.1	136.3	165.5	194.8	217.5	237.0	250.0	256.4
75°	39.0	58.4	58.4	77.9	97.4	110.4	129.9	146.0	155.8	165.5	165.5
77.5°	25.9	35.7	39.0	48.6	58.4	74.7	90.8	100.6	110.4	113.6	113.6
80°	22.7	25.9	25.9	35.7	42.2	55.2	64.9	68.1	74.7	77.9	84.4
82.5°	9.8	13.0	16.2	25.9	29.3	29.3	39.0	42.2	48.6	52.0	52.0
85°	3.2	6.5	6.5	9.8	16.2	19.5	22.7	25.9	29.3	29.3	32.5
87.5°	3.2	3.2	0.0	3.2	6.5	6.5	13.0	13.0	13.0	19.5	19.5
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: P249070

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3	6647.3
2.5°	6588.9	6592.1	6579.2	6576.0	6569.4	6572.6	6579.2
5°	6468.8	6472.0	6459.1	6446.1	6446.1	6442.8	6446.1
7.5°	6355.1	6358.5	6339.0	6332.4	6319.5	6322.8	6322.8
10°	6241.6	6241.6	6212.4	6209.1	6199.4	6196.1	6196.1
12.5°	6131.2	6121.5	6098.8	6085.8	6092.3	6072.8	6072.8
15°	6033.8	6017.7	5988.4	5978.6	5962.5	5955.9	5955.9
17.5°	5933.2	5920.3	5894.3	5874.8	5855.3	5852.1	5855.3
20°	5835.8	5822.9	5790.4	5777.4	5761.3	5761.3	5754.7
22.5°	5738.4	5725.5	5696.4	5686.6	5663.9	5663.9	5667.1
25°	5637.8	5628.1	5595.6	5589.2	5586.0	5572.9	5579.5
27.5°	5501.6	5495.0	5469.1	5459.4	5446.4	5443.2	5449.6
30°	5251.6	5241.9	5222.5	5212.7	5190.0	5193.2	5199.6
32.5°	4940.1	4927.1	4901.0	4891.3	4871.9	4865.4	4868.6
35°	4550.6	4540.9	4518.2	4518.2	4498.6	4492.1	4498.6
37.5°	4154.6	4164.3	4154.6	4164.3	4154.6	4151.3	4154.6
40°	3781.4	3817.0	3823.4	3859.2	3846.3	3865.7	3862.5
42.5°	3424.3	3482.6	3505.5	3534.6	3528.2	3541.1	3550.9
45°	3063.9	3112.7	3135.4	3154.9	3158.1	3164.7	3167.9
47.5°	2723.1	2762.1	2765.3	2788.1	2784.9	2784.9	2794.6
50°	2405.2	2431.1	2437.5	2453.8	2440.8	2434.3	2437.5
52.5°	2109.8	2135.7	2129.2	2135.7	2119.5	2113.0	2116.2
55°	1807.8	1820.8	1820.8	1820.8	1801.4	1801.4	1801.4
57.5°	1499.5	1502.8	1496.3	1499.5	1496.3	1476.8	1473.6
60°	1217.2	1217.2	1213.9	1217.2	1207.5	1197.7	1197.7
62.5°	951.0	957.5	970.5	957.5	951.0	957.5	947.7
65°	710.9	723.8	720.5	727.0	723.8	723.8	717.3
67.5°	535.6	538.8	542.0	545.3	545.3	545.3	545.3
70°	392.8	402.5	399.2	399.2	399.2	399.2	418.7
72.5°	262.9	275.9	272.7	279.1	279.1	285.6	279.1
75°	178.5	191.4	185.0	194.8	191.4	185.0	201.2
77.5°	120.1	126.7	129.9	133.1	129.9	126.7	129.9
80°	84.4	90.8	87.6	90.8	90.8	90.8	94.2
82.5°	52.0	61.7	58.4	61.7	58.4	61.7	61.7
85°	35.7	39.0	32.5	39.0	35.7	35.7	42.2
87.5°	22.7	19.5	19.5	22.7	19.5	22.7	19.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)