

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: P249078

Luminaire Tested: **LD8B120D010 ER8B1209730 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249078
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: LD8B120D010 ER8B1209730 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8988.0 lumens
Efficiency: N/A
Efficacy: 76.0 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

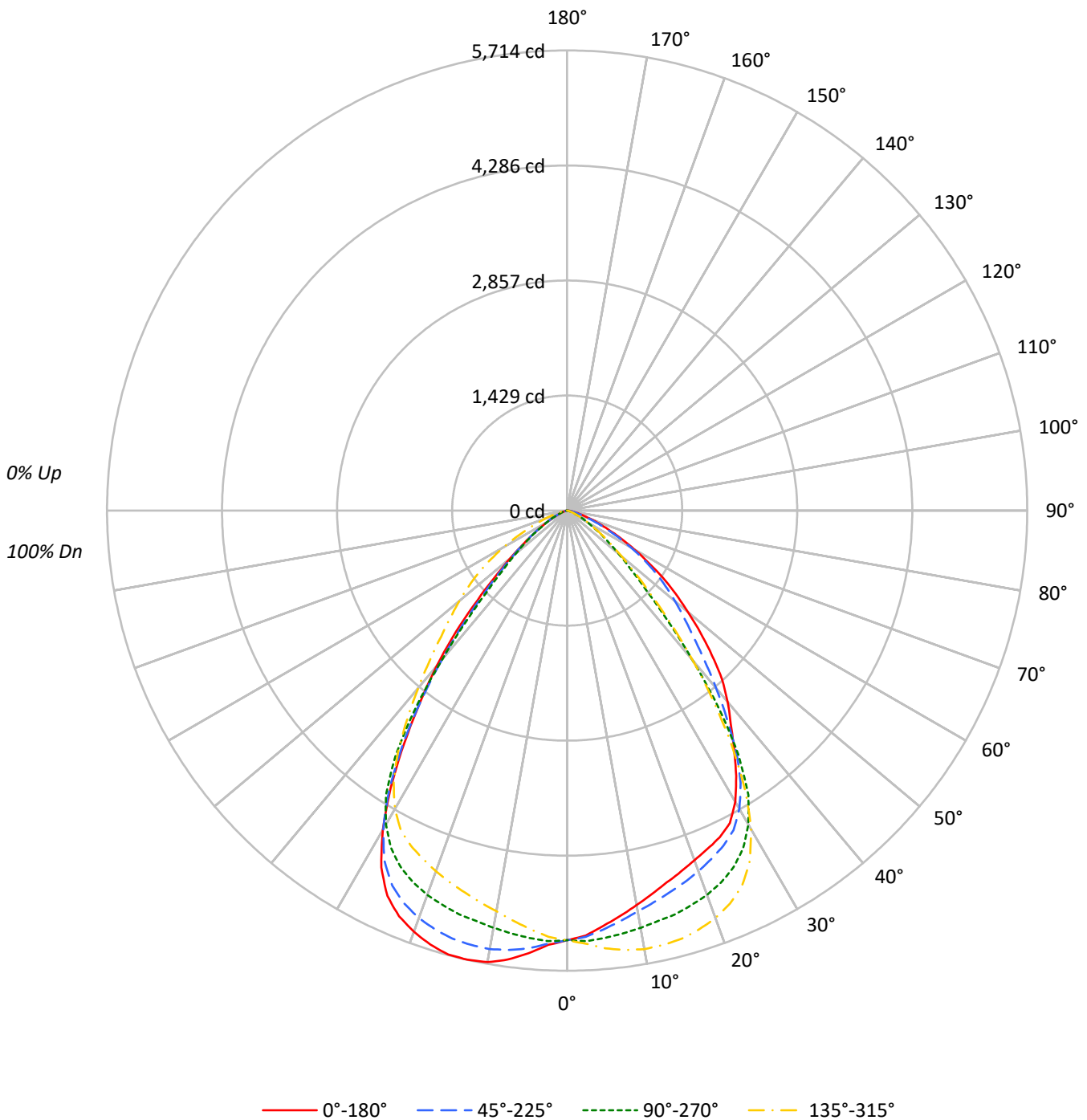
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249078

CATALOG NUMBER: LD8B120D010 ER8B1209730 8LBSW0MW

Luminous Intensity Polar Plot





TEST NUMBER: P249078

CATALOG NUMBER: LD8B120D010 ER8B1209730 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: P249078

CATALOG NUMBER: LD8B120D010 ER8B1209730 8LBSW0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.9	5.7
10°-20°	1470.7	16.4
20°-30°	2227.0	24.8
30°-40°	2232.0	24.8
40°-50°	1401.6	15.6
50°-60°	746.9	8.3
60°-70°	307.1	3.4
70°-80°	81.1	0.9
80°-90°	13.7	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°	4205.6	46.8
0°-40°	6437.5	71.6
0°-60°	8586.0	95.5
0°-90°	8988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8988.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5336	5336	5336	5336	5336	
5°	5174	5328	5518	5328	5174	488
15°	4781	5190	5706	5190	4781	1352
25°	4479	4888	5281	4888	4479	2054
35°	3611	3713	3523	3713	3611	2262
45°	2543	1360	1574	1360	2543	1956
55°	1446	503	532	503	1446	1289
65°	576	154	141	154	576	597
75°	162	31	26	31	162	183
85°	34	0	3	0	34	37
90°	0	0	0	0	0	



TEST NUMBER: P249078

CATALOG NUMBER: LD8B120D010 ER8B1209730 8LBSW0MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9
2.5°	5281.2	5275.9	5273.4	5278.6	5281.2	5291.6	5289.0	5294.2	5294.2	5296.9	5302.0
5°	5174.4	5171.7	5174.4	5174.4	5184.8	5195.2	5192.6	5200.4	5205.6	5218.7	5223.8
7.5°	5075.4	5075.4	5072.7	5083.1	5088.4	5104.0	5101.4	5114.4	5122.3	5135.2	5153.5
10°	4973.7	4973.7	4976.3	4984.1	4986.8	5010.2	5010.2	5028.4	5038.8	5051.9	5075.4
12.5°	4874.8	4874.8	4890.4	4885.2	4895.6	4913.8	4921.6	4939.8	4955.5	4981.6	5005.1
15°	4780.9	4780.9	4786.2	4799.1	4807.0	4830.5	4843.4	4864.4	4882.6	4908.6	4942.5
17.5°	4700.2	4697.6	4700.2	4715.8	4731.5	4752.3	4762.7	4788.7	4807.0	4840.9	4872.2
20°	4619.4	4624.7	4624.7	4637.6	4648.0	4674.1	4684.5	4713.2	4734.1	4765.3	4801.8
22.5°	4549.1	4546.5	4546.5	4564.7	4572.5	4595.9	4606.3	4632.4	4655.9	4681.9	4715.8
25°	4478.7	4473.5	4484.0	4486.5	4491.7	4517.7	4525.6	4543.8	4567.3	4590.8	4624.7
27.5°	4374.5	4369.3	4371.9	4382.3	4390.1	4410.9	4416.2	4434.4	4452.7	4473.5	4502.2
30°	4173.8	4168.7	4166.1	4184.3	4192.2	4207.7	4215.5	4246.9	4252.0	4275.5	4296.3
32.5°	3908.1	3905.5	3910.8	3926.3	3934.1	3955.1	3965.5	3983.7	3996.7	4009.7	4030.6
35°	3611.1	3605.9	3611.1	3626.8	3626.8	3645.0	3652.8	3660.6	3658.0	3660.6	3655.4
37.5°	3335.0	3332.3	3335.0	3342.7	3335.0	3342.7	3335.0	3319.3	3290.7	3259.4	3228.1
40°	3100.4	3103.0	3087.5	3097.9	3069.1	3064.0	3035.4	2996.2	2938.9	2876.4	2787.8
42.5°	2850.4	2842.5	2832.1	2837.3	2813.9	2795.6	2748.7	2699.3	2626.2	2522.1	2415.2
45°	2542.9	2540.3	2535.1	2532.5	2516.8	2498.6	2459.5	2402.2	2321.4	2214.6	2086.9
47.5°	2243.3	2235.4	2235.4	2238.0	2219.8	2217.2	2185.9	2136.5	2066.1	1961.9	1829.0
50°	1956.6	1954.0	1959.3	1969.7	1956.6	1951.5	1930.7	1896.8	1834.3	1745.7	1620.5
52.5°	1698.7	1696.1	1701.4	1714.4	1709.1	1714.4	1693.6	1667.5	1625.8	1539.8	1430.4
55°	1446.0	1446.0	1446.0	1461.6	1461.6	1461.6	1451.2	1435.6	1396.5	1334.0	1232.4
57.5°	1182.9	1185.4	1201.1	1203.7	1201.1	1206.4	1203.7	1188.0	1162.1	1117.8	1039.6
60°	961.4	961.4	969.2	977.1	974.4	977.1	977.1	969.2	943.2	906.7	844.2
62.5°	760.8	768.6	763.3	768.6	779.0	768.6	763.3	758.2	740.0	716.5	664.4
65°	575.8	581.0	581.0	583.6	578.4	581.0	570.6	562.8	552.4	526.3	492.5
67.5°	437.8	437.8	437.8	437.8	435.1	432.5	429.9	422.1	403.9	393.5	356.9
70°	336.1	320.4	320.4	320.4	320.4	323.1	315.3	304.9	299.6	281.4	255.3
72.5°	224.0	229.3	224.0	224.0	218.9	221.5	211.1	205.8	200.6	190.2	174.6
75°	161.5	148.5	153.7	156.4	148.5	153.7	143.3	132.9	132.9	125.0	117.2
77.5°	104.2	101.7	104.2	106.8	104.2	101.7	96.4	91.2	91.2	88.6	80.8
80°	75.6	72.9	72.9	72.9	70.4	72.9	67.8	67.8	62.5	59.9	54.7
82.5°	49.5	49.5	46.9	49.5	46.9	49.5	41.7	41.7	41.7	39.0	33.9
85°	33.9	28.6	28.6	31.3	26.1	31.3	28.6	26.1	23.5	23.5	20.8
87.5°	15.7	18.2	15.7	18.2	15.7	15.7	18.2	15.7	15.7	10.4	10.4
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: P249078

CATALOG NUMBER: LD8B120D010 ER8B1209730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9
2.5°	5309.8	5312.4	5312.4	5322.9	5328.1	5330.6	5330.6	5351.5	5343.7	5349.0	5354.1
5°	5234.3	5249.9	5255.1	5255.1	5283.8	5294.2	5304.6	5328.1	5330.6	5346.3	5364.5
7.5°	5161.3	5179.5	5190.0	5213.4	5231.7	5249.9	5281.2	5296.9	5312.4	5333.3	5356.7
10°	5091.0	5111.9	5132.7	5150.9	5179.5	5203.0	5223.8	5260.3	5278.6	5307.3	5338.5
12.5°	5023.3	5051.9	5070.1	5101.4	5132.7	5153.5	5184.8	5218.7	5247.3	5275.9	5312.4
15°	4963.3	4997.2	5018.0	5051.9	5085.8	5114.4	5148.3	5190.0	5210.8	5244.7	5278.6
17.5°	4898.1	4934.7	4960.8	4992.0	5033.7	5064.9	5093.6	5135.2	5161.3	5197.8	5236.9
20°	4830.5	4866.9	4898.1	4929.4	4971.2	5002.4	5036.3	5078.0	5106.6	5143.1	5174.4
22.5°	4749.7	4783.6	4817.4	4853.8	4895.6	4921.6	4960.8	4997.2	5028.4	5062.3	5093.6
25°	4645.5	4687.2	4713.2	4747.0	4780.9	4809.6	4851.3	4887.7	4913.8	4945.1	4973.7
27.5°	4523.0	4554.3	4575.1	4603.8	4637.6	4663.7	4694.9	4731.5	4757.5	4786.2	4807.0
30°	4314.5	4343.3	4361.5	4382.3	4416.2	4439.7	4465.7	4499.5	4517.7	4538.7	4556.9
32.5°	4041.0	4064.4	4074.8	4090.5	4114.0	4137.4	4158.3	4186.9	4194.7	4207.7	4207.7
35°	3645.0	3650.2	3647.6	3652.8	3663.3	3676.2	3694.5	3712.7	3723.1	3723.1	3715.4
37.5°	3181.2	3150.0	3116.1	3090.0	3082.2	3077.0	3087.5	3095.2	3105.7	3110.9	3097.9
40°	2699.3	2628.9	2553.3	2485.5	2438.7	2417.9	2410.0	2415.2	2415.2	2433.4	2433.4
42.5°	2285.0	2175.5	2063.5	1961.9	1894.1	1842.1	1818.6	1818.6	1821.2	1834.3	1842.1
45°	1941.1	1802.9	1672.6	1560.7	1466.8	1399.1	1367.9	1360.0	1357.5	1362.6	1380.8
47.5°	1677.9	1534.6	1399.1	1261.0	1162.1	1094.3	1065.7	1055.1	1044.7	1055.1	1057.8
50°	1472.1	1323.6	1180.3	1042.2	937.9	878.0	841.5	825.9	823.3	823.3	828.5
52.5°	1284.4	1146.4	1003.1	862.4	752.9	695.7	661.8	654.0	643.6	654.0	654.0
55°	1107.3	969.2	828.5	695.7	604.4	544.6	513.3	502.9	497.6	505.4	505.4
57.5°	914.6	797.2	667.0	547.1	456.0	414.3	390.8	377.8	375.1	380.4	375.1
60°	750.4	651.4	539.3	429.9	359.6	315.3	297.1	291.8	286.5	291.8	291.8
62.5°	594.0	510.7	419.4	336.1	276.1	244.9	224.0	224.0	221.5	221.5	224.0
65°	440.3	375.1	310.0	239.7	192.8	169.3	153.7	153.7	151.1	153.7	151.1
67.5°	320.4	276.1	224.0	174.6	138.1	125.0	114.6	106.8	112.1	106.8	104.2
70°	234.5	198.0	161.5	132.9	106.8	93.8	86.0	83.3	78.2	78.2	78.2
72.5°	156.4	132.9	109.4	86.0	70.4	57.3	54.7	49.5	44.3	46.9	52.1
75°	104.2	88.6	78.2	62.5	46.9	46.9	31.3	31.3	26.1	31.3	23.5
77.5°	72.9	59.9	46.9	39.0	31.3	28.6	20.8	20.8	18.2	18.2	18.2
80°	52.1	44.3	33.9	28.6	20.8	20.8	18.2	15.7	13.0	13.0	15.7
82.5°	31.3	23.5	23.5	20.8	13.0	10.4	7.8	10.4	5.3	5.3	5.3
85°	18.2	15.7	13.0	7.8	5.3	5.3	2.6	0.0	2.6	2.6	0.0
87.5°	10.4	5.3	5.3	2.6	0.0	2.6	2.6	0.0	0.0	0.0	5.3
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: P249078

CATALOG NUMBER: LD8B120D010 ER8B1209730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9
2.5°	5367.2	5364.5	5369.8	5369.8	5385.4	5382.8	5390.6	5390.6	5385.4	5388.0	5398.4
5°	5385.4	5393.3	5408.8	5421.9	5445.3	5455.8	5468.8	5481.8	5484.4	5492.2	5500.1
7.5°	5385.4	5411.5	5429.7	5453.1	5484.4	5502.7	5531.3	5554.8	5565.2	5578.1	5593.8
10°	5374.9	5401.0	5434.9	5460.9	5500.1	5528.7	5557.3	5593.8	5609.5	5630.3	5651.2
12.5°	5354.1	5382.8	5419.2	5453.1	5497.4	5523.5	5559.9	5593.8	5617.3	5645.9	5669.4
15°	5322.9	5356.7	5390.6	5424.5	5471.3	5502.7	5536.5	5575.6	5599.1	5630.3	5651.2
17.5°	5273.4	5309.8	5341.1	5372.4	5416.6	5453.1	5484.4	5520.9	5544.4	5570.4	5599.1
20°	5213.4	5247.3	5281.2	5307.3	5351.5	5382.8	5416.6	5450.5	5468.8	5474.0	5518.3
22.5°	5137.9	5161.3	5187.4	5229.1	5255.1	5283.8	5315.1	5346.3	5364.5	5393.3	5408.8
25°	5012.8	5036.3	5064.9	5083.1	5114.4	5137.9	5169.1	5203.0	5213.4	5234.3	5249.9
27.5°	4838.3	4851.3	4864.4	4879.9	4898.1	4911.2	4929.4	4945.1	4955.5	4965.9	4976.3
30°	4562.0	4562.0	4562.0	4551.6	4559.5	4567.3	4569.9	4567.3	4567.3	4564.7	4564.7
32.5°	4197.3	4176.5	4153.0	4132.2	4124.4	4114.0	4108.7	4100.9	4087.9	4080.1	4082.7
35°	3704.9	3658.0	3629.4	3603.3	3582.5	3566.8	3559.0	3551.2	3548.6	3538.2	3527.7
37.5°	3090.0	3056.2	3035.4	3019.7	3001.5	2985.8	2988.4	2991.1	2998.8	2993.6	2996.2
40°	2438.7	2430.8	2438.7	2420.4	2415.2	2420.4	2433.4	2451.7	2462.1	2472.6	2490.8
42.5°	1855.1	1868.0	1886.4	1886.4	1894.1	1904.6	1920.2	1948.9	1964.4	1982.7	2003.6
45°	1396.5	1412.2	1435.6	1443.4	1448.6	1461.6	1479.9	1503.3	1513.7	1529.4	1547.6
47.5°	1076.1	1086.5	1099.4	1112.5	1125.5	1130.8	1149.0	1149.0	1162.1	1172.5	1177.6
50°	838.9	849.3	859.8	867.6	872.8	880.7	885.8	893.6	896.2	901.5	904.0
52.5°	656.5	669.6	669.6	674.8	682.6	690.4	687.8	690.4	693.0	693.0	700.8
55°	513.3	513.3	521.1	521.1	526.3	523.7	526.3	526.3	526.3	526.3	528.9
57.5°	383.0	385.6	393.5	388.2	385.6	390.8	385.6	390.8	388.2	393.5	385.6
60°	294.4	294.4	297.1	297.1	299.6	299.6	299.6	297.1	297.1	294.4	294.4
62.5°	221.5	224.0	226.7	224.0	224.0	224.0	221.5	221.5	218.9	216.2	216.2
65°	148.5	146.0	151.1	146.0	148.5	148.5	146.0	148.5	140.7	143.3	140.7
67.5°	106.8	104.2	101.7	104.2	101.7	99.0	99.0	101.7	104.2	96.4	96.4
70°	70.4	72.9	70.4	72.9	75.6	75.6	72.9	70.4	72.9	67.8	70.4
72.5°	44.3	44.3	44.3	44.3	44.3	46.9	46.9	46.9	41.7	41.7	39.0
75°	20.8	28.6	23.5	20.8	28.6	28.6	26.1	26.1	23.5	23.5	23.5
77.5°	20.8	15.7	15.7	15.7	15.7	15.7	15.7	15.7	13.0	15.7	13.0
80°	10.4	10.4	10.4	7.8	10.4	10.4	13.0	10.4	10.4	7.8	13.0
82.5°	5.3	5.3	5.3	0.0	2.6	5.3	5.3	2.6	5.3	5.3	2.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P249078

CATALOG NUMBER: LD8B120D010 ER8B1209730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9
2.5°	5395.8	5393.3	5395.8	5398.4	5395.8	5393.3	5395.8	5398.4	5388.0	5385.4	5390.6
5°	5510.5	5510.5	5515.6	5518.3	5515.6	5510.5	5510.5	5500.1	5492.2	5484.4	5481.8
7.5°	5609.5	5614.7	5619.9	5622.4	5619.9	5614.7	5609.5	5593.8	5578.1	5565.2	5554.8
10°	5669.4	5677.2	5687.6	5692.8	5687.6	5677.2	5669.4	5651.2	5630.3	5609.5	5593.8
12.5°	5695.5	5703.3	5716.3	5713.7	5716.3	5703.3	5695.5	5669.4	5645.9	5617.3	5593.8
15°	5677.2	5687.6	5700.6	5705.9	5700.6	5687.6	5677.2	5651.2	5630.3	5599.1	5575.6
17.5°	5619.9	5635.5	5643.4	5651.2	5643.4	5635.5	5619.9	5599.1	5570.4	5544.4	5520.9
20°	5541.7	5552.2	5562.6	5565.2	5562.6	5552.2	5541.7	5518.3	5474.0	5468.8	5450.5
22.5°	5429.7	5437.6	5460.9	5453.1	5460.9	5437.6	5429.7	5408.8	5393.3	5364.5	5346.3
25°	5268.1	5275.9	5278.6	5281.2	5278.6	5275.9	5268.1	5249.9	5234.3	5213.4	5203.0
27.5°	4989.4	4989.4	4994.5	4997.2	4994.5	4989.4	4989.4	4976.3	4965.9	4955.5	4945.1
30°	4567.3	4567.3	4567.3	4580.4	4567.3	4567.3	4567.3	4564.7	4564.7	4567.3	4567.3
32.5°	4080.1	4074.8	4069.7	4074.8	4069.7	4074.8	4080.1	4082.7	4080.1	4087.9	4100.9
35°	3527.7	3525.1	3533.0	3522.6	3533.0	3525.1	3527.7	3527.7	3538.2	3548.6	3551.2
37.5°	2998.8	2993.6	3004.0	2993.6	3004.0	2993.6	2998.8	2996.2	2993.6	2998.8	2991.1
40°	2496.0	2501.2	2501.2	2522.1	2501.2	2501.2	2496.0	2490.8	2472.6	2462.1	2451.7
42.5°	2014.0	2029.6	2024.4	2040.0	2024.4	2029.6	2014.0	2003.6	1982.7	1964.4	1948.9
45°	1558.0	1568.5	1568.5	1573.7	1568.5	1568.5	1558.0	1547.6	1529.4	1513.7	1503.3
47.5°	1195.8	1195.8	1195.8	1198.5	1195.8	1195.8	1195.8	1177.6	1172.5	1162.1	1149.0
50°	909.3	911.9	914.6	917.1	914.6	911.9	909.3	904.0	901.5	896.2	893.6
52.5°	698.2	700.8	695.7	700.8	695.7	700.8	698.2	700.8	693.0	693.0	690.4
55°	528.9	526.3	528.9	531.5	528.9	526.3	528.9	528.9	526.3	526.3	526.3
57.5°	388.2	383.0	383.0	383.0	383.0	383.0	388.2	385.6	393.5	388.2	390.8
60°	289.2	291.8	291.8	294.4	291.8	291.8	289.2	294.4	294.4	297.1	297.1
62.5°	213.6	221.5	216.2	221.5	216.2	221.5	213.6	216.2	216.2	218.9	221.5
65°	138.1	138.1	138.1	140.7	138.1	138.1	138.1	140.7	143.3	140.7	148.5
67.5°	93.8	96.4	101.7	99.0	101.7	96.4	93.8	96.4	96.4	104.2	101.7
70°	75.6	67.8	67.8	75.6	67.8	67.8	75.6	70.4	67.8	72.9	70.4
72.5°	44.3	39.0	44.3	44.3	44.3	39.0	44.3	39.0	41.7	41.7	46.9
75°	23.5	20.8	18.2	26.1	18.2	20.8	23.5	23.5	23.5	23.5	26.1
77.5°	15.7	13.0	18.2	18.2	18.2	13.0	15.7	13.0	15.7	13.0	15.7
80°	7.8	10.4	7.8	13.0	7.8	10.4	7.8	13.0	7.8	10.4	10.4
82.5°	2.6	5.3	5.3	5.3	5.3	5.3	2.6	2.6	5.3	5.3	2.6
85°	0.0	5.3	2.6	2.6	2.6	5.3	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	0.0	0.0	2.6	0.0	0.0	2.6	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P249078

CATALOG NUMBER: LD8B120D010 ER8B1209730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9
2.5°	5390.6	5382.8	5385.4	5369.8	5369.8	5364.5	5367.2	5354.1	5349.0	5343.7	5351.5
5°	5468.8	5455.8	5445.3	5421.9	5408.8	5393.3	5385.4	5364.5	5346.3	5330.6	5328.1
7.5°	5531.3	5502.7	5484.4	5453.1	5429.7	5411.5	5385.4	5356.7	5333.3	5312.4	5296.9
10°	5557.3	5528.7	5500.1	5460.9	5434.9	5401.0	5374.9	5338.5	5307.3	5278.6	5260.3
12.5°	5559.9	5523.5	5497.4	5453.1	5419.2	5382.8	5354.1	5312.4	5275.9	5247.3	5218.7
15°	5536.5	5502.7	5471.3	5424.5	5390.6	5356.7	5322.9	5278.6	5244.7	5210.8	5190.0
17.5°	5484.4	5453.1	5416.6	5372.4	5341.1	5309.8	5273.4	5236.9	5197.8	5161.3	5135.2
20°	5416.6	5382.8	5351.5	5307.3	5281.2	5247.3	5213.4	5174.4	5143.1	5106.6	5078.0
22.5°	5315.1	5283.8	5255.1	5229.1	5187.4	5161.3	5137.9	5093.6	5062.3	5028.4	4997.2
25°	5169.1	5137.9	5114.4	5083.1	5064.9	5036.3	5012.8	4973.7	4945.1	4913.8	4887.7
27.5°	4929.4	4911.2	4898.1	4879.9	4864.4	4851.3	4838.3	4807.0	4786.2	4757.5	4731.5
30°	4569.9	4567.3	4559.5	4551.6	4562.0	4562.0	4562.0	4556.9	4538.7	4517.7	4499.5
32.5°	4108.7	4114.0	4124.4	4132.2	4153.0	4176.5	4197.3	4207.7	4207.7	4194.7	4186.9
35°	3559.0	3566.8	3582.5	3603.3	3629.4	3658.0	3704.9	3715.4	3723.1	3723.1	3712.7
37.5°	2988.4	2985.8	3001.5	3019.7	3035.4	3056.2	3090.0	3097.9	3110.9	3105.7	3095.2
40°	2433.4	2420.4	2415.2	2420.4	2438.7	2430.8	2438.7	2433.4	2433.4	2415.2	2415.2
42.5°	1920.2	1904.6	1894.1	1886.4	1886.4	1868.0	1855.1	1842.1	1834.3	1821.2	1818.6
45°	1479.9	1461.6	1448.6	1443.4	1435.6	1412.2	1396.5	1380.8	1362.6	1357.5	1360.0
47.5°	1149.0	1130.8	1125.5	1112.5	1099.4	1086.5	1076.1	1057.8	1055.1	1044.7	1055.1
50°	885.8	880.7	872.8	867.6	859.8	849.3	838.9	828.5	823.3	823.3	825.9
52.5°	687.8	690.4	682.6	674.8	669.6	669.6	656.5	654.0	654.0	643.6	654.0
55°	526.3	523.7	526.3	521.1	521.1	513.3	513.3	505.4	505.4	497.6	502.9
57.5°	385.6	390.8	385.6	388.2	393.5	385.6	383.0	375.1	380.4	375.1	377.8
60°	299.6	299.6	299.6	297.1	297.1	294.4	294.4	291.8	291.8	286.5	291.8
62.5°	221.5	224.0	224.0	224.0	226.7	224.0	221.5	224.0	221.5	221.5	224.0
65°	146.0	148.5	148.5	146.0	151.1	146.0	148.5	151.1	153.7	151.1	153.7
67.5°	99.0	99.0	101.7	104.2	101.7	104.2	106.8	104.2	106.8	112.1	106.8
70°	72.9	75.6	75.6	72.9	70.4	72.9	70.4	78.2	78.2	78.2	83.3
72.5°	46.9	46.9	44.3	44.3	44.3	44.3	44.3	52.1	46.9	44.3	49.5
75°	26.1	28.6	28.6	20.8	23.5	28.6	20.8	23.5	31.3	26.1	31.3
77.5°	15.7	15.7	15.7	15.7	15.7	15.7	20.8	18.2	18.2	18.2	20.8
80°	13.0	10.4	10.4	7.8	10.4	10.4	10.4	15.7	13.0	13.0	15.7
82.5°	5.3	5.3	2.6	0.0	5.3	5.3	5.3	5.3	5.3	5.3	10.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	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: P249078

CATALOG NUMBER: LD8B120D010 ER8B1209730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9
2.5°	5330.6	5330.6	5328.1	5322.9	5312.4	5312.4	5309.8	5302.0	5296.9	5294.2	5294.2
5°	5304.6	5294.2	5283.8	5255.1	5255.1	5249.9	5234.3	5223.8	5218.7	5205.6	5200.4
7.5°	5281.2	5249.9	5231.7	5213.4	5190.0	5179.5	5161.3	5153.5	5135.2	5122.3	5114.4
10°	5223.8	5203.0	5179.5	5150.9	5132.7	5111.9	5091.0	5075.4	5051.9	5038.8	5028.4
12.5°	5184.8	5153.5	5132.7	5101.4	5070.1	5051.9	5023.3	5005.1	4981.6	4955.5	4939.8
15°	5148.3	5114.4	5085.8	5051.9	5018.0	4997.2	4963.3	4942.5	4908.6	4882.6	4864.4
17.5°	5093.6	5064.9	5033.7	4992.0	4960.8	4934.7	4898.1	4872.2	4840.9	4807.0	4788.7
20°	5036.3	5002.4	4971.2	4929.4	4898.1	4866.9	4830.5	4801.8	4765.3	4734.1	4713.2
22.5°	4960.8	4921.6	4895.6	4853.8	4817.4	4783.6	4749.7	4715.8	4681.9	4655.9	4632.4
25°	4851.3	4809.6	4780.9	4747.0	4713.2	4687.2	4645.5	4624.7	4590.8	4567.3	4543.8
27.5°	4694.9	4663.7	4637.6	4603.8	4575.1	4554.3	4523.0	4502.2	4473.5	4452.7	4434.4
30°	4465.7	4439.7	4416.2	4382.3	4361.5	4343.3	4314.5	4296.3	4275.5	4252.0	4246.9
32.5°	4158.3	4137.4	4114.0	4090.5	4074.8	4064.4	4041.0	4030.6	4009.7	3996.7	3983.7
35°	3694.5	3676.2	3663.3	3652.8	3647.6	3650.2	3645.0	3655.4	3660.6	3658.0	3660.6
37.5°	3087.5	3077.0	3082.2	3090.0	3116.1	3150.0	3181.2	3228.1	3259.4	3290.7	3319.3
40°	2410.0	2417.9	2438.7	2485.5	2553.3	2628.9	2699.3	2787.8	2876.4	2938.9	2996.2
42.5°	1818.6	1842.1	1894.1	1961.9	2063.5	2175.5	2285.0	2415.2	2522.1	2626.2	2699.3
45°	1367.9	1399.1	1466.8	1560.7	1672.6	1802.9	1941.1	2086.9	2214.6	2321.4	2402.2
47.5°	1065.7	1094.3	1162.1	1261.0	1399.1	1534.6	1677.9	1829.0	1961.9	2066.1	2136.5
50°	841.5	878.0	937.9	1042.2	1180.3	1323.6	1472.1	1620.5	1745.7	1834.3	1896.8
52.5°	661.8	695.7	752.9	862.4	1003.1	1146.4	1284.4	1430.4	1539.8	1625.8	1667.5
55°	513.3	544.6	604.4	695.7	828.5	969.2	1107.3	1232.4	1334.0	1396.5	1435.6
57.5°	390.8	414.3	456.0	547.1	667.0	797.2	914.6	1039.6	1117.8	1162.1	1188.0
60°	297.1	315.3	359.6	429.9	539.3	651.4	750.4	844.2	906.7	943.2	969.2
62.5°	224.0	244.9	276.1	336.1	419.4	510.7	594.0	664.4	716.5	740.0	758.2
65°	153.7	169.3	192.8	239.7	310.0	375.1	440.3	492.5	526.3	552.4	562.8
67.5°	114.6	125.0	138.1	174.6	224.0	276.1	320.4	356.9	393.5	403.9	422.1
70°	86.0	93.8	106.8	132.9	161.5	198.0	234.5	255.3	281.4	299.6	304.9
72.5°	54.7	57.3	70.4	86.0	109.4	132.9	156.4	174.6	190.2	200.6	205.8
75°	31.3	46.9	46.9	62.5	78.2	88.6	104.2	117.2	125.0	132.9	132.9
77.5°	20.8	28.6	31.3	39.0	46.9	59.9	72.9	80.8	88.6	91.2	91.2
80°	18.2	20.8	20.8	28.6	33.9	44.3	52.1	54.7	59.9	62.5	67.8
82.5°	7.8	10.4	13.0	20.8	23.5	23.5	31.3	33.9	39.0	41.7	41.7
85°	2.6	5.3	5.3	7.8	13.0	15.7	18.2	20.8	23.5	23.5	26.1
87.5°	2.6	2.6	0.0	2.6	5.3	5.3	10.4	10.4	10.4	15.7	15.7
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: P249078

CATALOG NUMBER: LD8B120D010 ER8B1209730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9	5335.9
2.5°	5289.0	5291.6	5281.2	5278.6	5273.4	5275.9	5281.2
5°	5192.6	5195.2	5184.8	5174.4	5174.4	5171.7	5174.4
7.5°	5101.4	5104.0	5088.4	5083.1	5072.7	5075.4	5075.4
10°	5010.2	5010.2	4986.8	4984.1	4976.3	4973.7	4973.7
12.5°	4921.6	4913.8	4895.6	4885.2	4890.4	4874.8	4874.8
15°	4843.4	4830.5	4807.0	4799.1	4786.2	4780.9	4780.9
17.5°	4762.7	4752.3	4731.5	4715.8	4700.2	4697.6	4700.2
20°	4684.5	4674.1	4648.0	4637.6	4624.7	4624.7	4619.4
22.5°	4606.3	4595.9	4572.5	4564.7	4546.5	4546.5	4549.1
25°	4525.6	4517.7	4491.7	4486.5	4484.0	4473.5	4478.7
27.5°	4416.2	4410.9	4390.1	4382.3	4371.9	4369.3	4374.5
30°	4215.5	4207.7	4192.2	4184.3	4166.1	4168.7	4173.8
32.5°	3965.5	3955.1	3934.1	3926.3	3910.8	3905.5	3908.1
35°	3652.8	3645.0	3626.8	3626.8	3611.1	3605.9	3611.1
37.5°	3335.0	3342.7	3335.0	3342.7	3335.0	3332.3	3335.0
40°	3035.4	3064.0	3069.1	3097.9	3087.5	3103.0	3100.4
42.5°	2748.7	2795.6	2813.9	2837.3	2832.1	2842.5	2850.4
45°	2459.5	2498.6	2516.8	2532.5	2535.1	2540.3	2542.9
47.5°	2185.9	2217.2	2219.8	2238.0	2235.4	2235.4	2243.3
50°	1930.7	1951.5	1956.6	1969.7	1959.3	1954.0	1956.6
52.5°	1693.6	1714.4	1709.1	1714.4	1701.4	1696.1	1698.7
55°	1451.2	1461.6	1461.6	1461.6	1446.0	1446.0	1446.0
57.5°	1203.7	1206.4	1201.1	1203.7	1201.1	1185.4	1182.9
60°	977.1	977.1	974.4	977.1	969.2	961.4	961.4
62.5°	763.3	768.6	779.0	768.6	763.3	768.6	760.8
65°	570.6	581.0	578.4	583.6	581.0	581.0	575.8
67.5°	429.9	432.5	435.1	437.8	437.8	437.8	437.8
70°	315.3	323.1	320.4	320.4	320.4	320.4	336.1
72.5°	211.1	221.5	218.9	224.0	224.0	229.3	224.0
75°	143.3	153.7	148.5	156.4	153.7	148.5	161.5
77.5°	96.4	101.7	104.2	106.8	104.2	101.7	104.2
80°	67.8	72.9	70.4	72.9	72.9	72.9	75.6
82.5°	41.7	49.5	46.9	49.5	46.9	49.5	49.5
85°	28.6	31.3	26.1	31.3	28.6	28.6	33.9
87.5°	18.2	15.7	15.7	18.2	15.7	18.2	15.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)