

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: P249069

Luminaire Tested: **LD8B120D010 ER8B120927 8LBSW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249069  
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 ER8B120927 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: 9558.0 lumens  
Efficiency: N/A  
Efficacy: 80.8 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

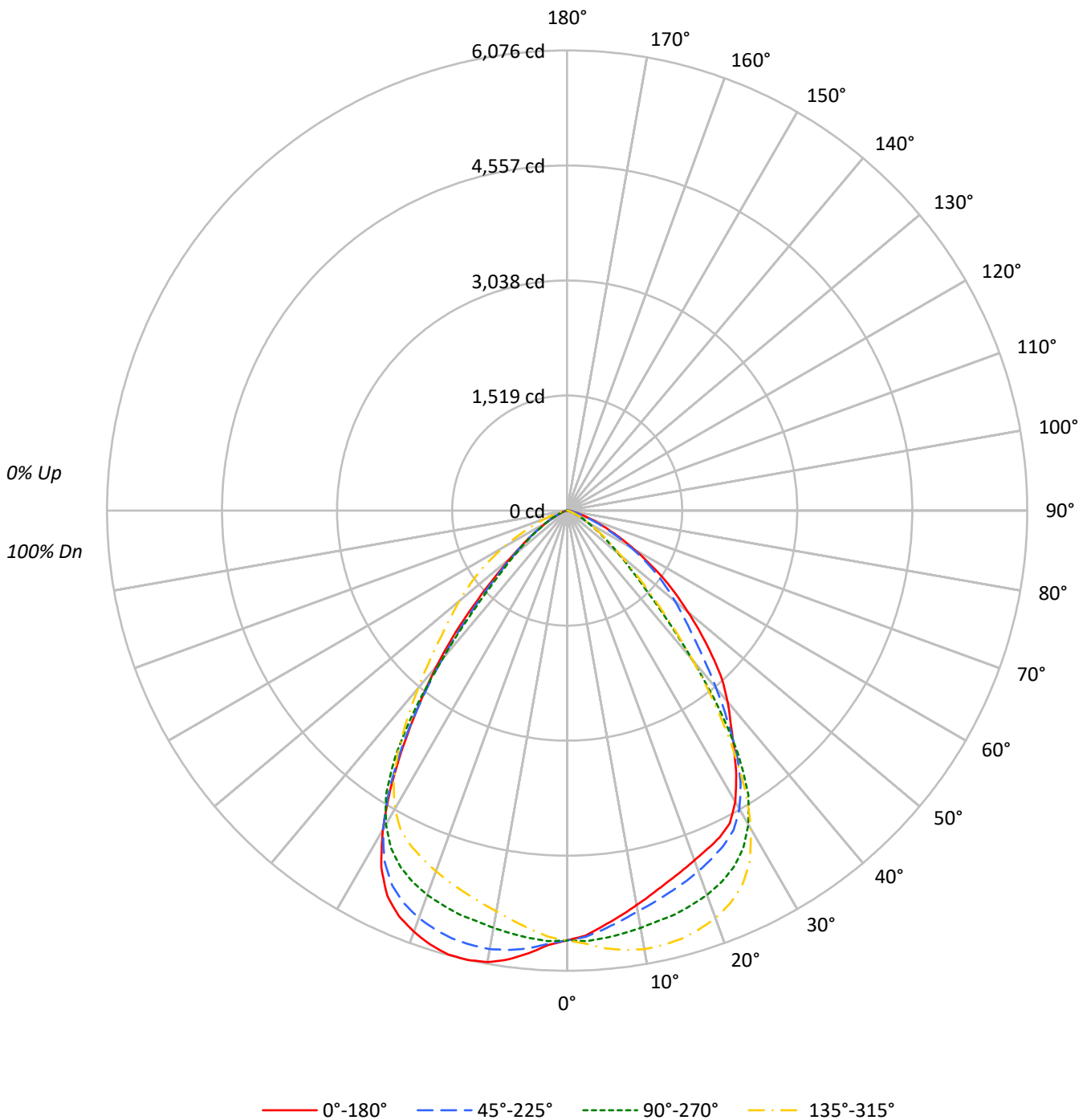
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	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°				



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	540.1	5.7
10°-20°	1564.0	16.4
20°-30°	2368.2	24.8
30°-40°	2373.5	24.8
40°-50°	1490.4	15.6
50°-60°	794.3	8.3
60°-70°	326.6	3.4
70°-80°	86.3	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°	4472.3	46.8
0°-40°	6845.8	71.6
0°-60°	9130.5	95.5
0°-90°	9558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9558.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	5674	5674	5674	5674	5674	
5°	5502	5666	5868	5666	5502	519
15°	5084	5519	6068	5519	5084	1438
25°	4763	5198	5616	5198	4763	2184
35°	3840	3948	3746	3948	3840	2406
45°	2704	1446	1673	1446	2704	2080
55°	1538	535	565	535	1538	1371
65°	612	164	150	164	612	635
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°	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3
2.5°	5616.1	5610.5	5607.8	5613.4	5616.1	5627.1	5624.4	5630.0	5630.0	5632.8	5638.3
5°	5502.5	5499.7	5502.5	5502.5	5513.6	5524.7	5522.0	5530.3	5535.7	5549.6	5555.1
7.5°	5397.3	5397.3	5394.4	5405.5	5411.0	5427.7	5424.9	5438.8	5447.1	5460.9	5480.3
10°	5289.2	5289.2	5291.9	5300.2	5303.0	5327.9	5327.9	5347.3	5358.4	5372.3	5397.3
12.5°	5183.9	5183.9	5200.5	5194.9	5206.0	5225.4	5233.7	5253.1	5269.7	5297.5	5322.5
15°	5084.1	5084.1	5089.7	5103.4	5111.8	5136.8	5150.6	5172.9	5192.2	5219.9	5256.0
17.5°	4998.3	4995.4	4998.3	5014.9	5031.6	5053.6	5064.8	5092.4	5111.8	5147.9	5181.2
20°	4912.3	4917.9	4917.9	4931.8	4942.8	4970.5	4981.6	5012.1	5034.3	5067.4	5106.4
22.5°	4837.5	4834.8	4834.8	4854.2	4862.5	4887.3	4898.5	4926.2	4951.1	4978.8	5014.9
25°	4762.7	4757.2	4768.3	4771.0	4776.5	4804.2	4812.5	4832.0	4857.0	4881.9	4917.9
27.5°	4651.9	4646.5	4649.2	4660.2	4668.5	4690.7	4696.3	4715.7	4735.0	4757.2	4787.7
30°	4438.6	4433.1	4430.4	4449.7	4458.0	4474.6	4482.9	4516.2	4521.7	4546.7	4568.7
32.5°	4156.0	4153.2	4158.8	4175.3	4183.7	4205.9	4217.0	4236.3	4250.1	4264.1	4286.1
35°	3840.2	3834.6	3840.2	3856.8	3856.8	3876.2	3884.5	3892.7	3890.0	3892.7	3887.2
37.5°	3546.4	3543.6	3546.4	3554.7	3546.4	3554.7	3546.4	3529.8	3499.4	3466.1	3432.8
40°	3297.0	3299.8	3283.3	3294.3	3263.7	3258.3	3227.8	3186.2	3125.4	3058.9	2964.6
42.5°	3031.1	3022.8	3011.7	3017.2	2992.4	2972.8	2923.0	2870.4	2792.8	2682.0	2568.4
45°	2704.2	2701.5	2695.8	2693.1	2676.5	2657.0	2615.4	2554.5	2468.7	2355.1	2219.3
47.5°	2385.6	2377.2	2377.2	2379.9	2360.6	2357.8	2324.5	2271.9	2197.1	2086.3	1945.0
50°	2080.7	2078.0	2083.5	2094.6	2080.7	2075.2	2053.1	2017.0	1950.5	1856.4	1723.3
52.5°	1806.4	1803.7	1809.2	1823.1	1817.4	1823.1	1800.9	1773.2	1728.9	1637.4	1521.1
55°	1537.8	1537.8	1537.8	1554.3	1554.3	1554.3	1543.2	1526.7	1485.1	1418.6	1310.6
57.5°	1257.9	1260.7	1277.3	1280.0	1277.3	1282.8	1280.0	1263.4	1235.8	1188.7	1105.5
60°	1022.4	1022.4	1030.7	1039.0	1036.2	1039.0	1039.0	1030.7	1003.0	964.2	897.8
62.5°	809.0	817.3	811.8	817.3	828.4	817.3	811.8	806.3	786.9	762.0	706.5
65°	612.3	617.8	617.8	620.7	615.0	617.8	606.8	598.5	587.5	559.7	523.7
67.5°	465.5	465.5	465.5	465.5	462.7	459.9	457.2	448.9	429.5	418.4	379.6
70°	357.4	340.8	340.8	340.8	340.8	343.6	335.2	324.2	318.6	299.2	271.6
72.5°	238.3	243.8	238.3	238.3	232.8	235.5	224.4	218.8	213.4	202.3	185.6
75°	171.8	158.0	163.5	166.3	158.0	163.5	152.3	141.3	141.3	133.0	124.6
77.5°	110.8	108.1	110.8	113.6	110.8	108.1	102.5	97.0	97.0	94.2	85.8
80°	80.4	77.5	77.5	77.5	74.8	77.5	72.1	72.1	66.5	63.8	58.2
82.5°	52.6	52.6	49.8	52.6	49.8	52.6	44.3	44.3	44.3	41.5	36.0
85°	36.0	30.5	30.5	33.3	27.7	33.3	30.5	27.7	25.0	25.0	22.2
87.5°	16.7	19.3	16.7	19.3	16.7	16.7	19.3	16.7	16.7	11.0	11.0
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°	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3
2.5°	5646.6	5649.3	5649.3	5660.4	5666.0	5668.7	5668.7	5690.9	5682.6	5688.2	5693.6
5°	5566.3	5582.8	5588.4	5588.4	5618.8	5630.0	5641.0	5666.0	5668.7	5685.3	5704.8
7.5°	5488.7	5508.0	5519.1	5544.0	5563.5	5582.8	5616.1	5632.8	5649.3	5671.6	5696.4
10°	5413.8	5436.0	5458.2	5477.5	5508.0	5533.0	5555.1	5593.8	5613.4	5643.8	5677.0
12.5°	5341.8	5372.3	5391.7	5424.9	5458.2	5480.3	5513.6	5549.6	5580.1	5610.5	5649.3
15°	5278.0	5314.2	5336.2	5372.3	5408.3	5438.8	5474.8	5519.1	5541.3	5577.3	5613.4
17.5°	5208.8	5247.7	5275.3	5308.5	5352.9	5386.0	5416.7	5460.9	5488.7	5527.3	5569.0
20°	5136.8	5175.6	5208.8	5242.0	5286.4	5319.6	5355.7	5400.0	5430.5	5469.2	5502.5
22.5°	5050.9	5086.9	5122.9	5161.6	5206.0	5233.7	5275.3	5314.2	5347.3	5383.3	5416.7
25°	4940.1	4984.4	5012.1	5048.1	5084.1	5114.6	5158.9	5197.7	5225.4	5258.7	5289.2
27.5°	4809.8	4843.1	4865.3	4895.7	4931.8	4959.4	4992.6	5031.6	5059.2	5089.7	5111.8
30°	4588.2	4618.7	4638.2	4660.2	4696.3	4721.3	4749.0	4784.8	4804.2	4826.5	4845.8
32.5°	4297.3	4322.2	4333.3	4349.9	4374.9	4399.8	4422.0	4452.4	4460.7	4474.6	4474.6
35°	3876.2	3881.7	3878.9	3884.5	3895.5	3909.4	3928.7	3948.2	3959.2	3959.2	3951.0
37.5°	3383.0	3349.8	3313.7	3286.0	3277.7	3272.1	3283.3	3291.5	3302.7	3308.2	3294.3
40°	2870.4	2795.6	2715.2	2643.2	2593.4	2571.2	2562.9	2568.4	2568.4	2587.7	2587.7
42.5°	2429.9	2313.5	2194.4	2086.3	2014.2	1958.8	1933.9	1933.9	1936.7	1950.5	1958.8
45°	2064.2	1917.2	1778.7	1659.6	1559.8	1487.8	1454.6	1446.3	1443.6	1449.0	1468.5
47.5°	1784.2	1631.9	1487.8	1341.0	1235.8	1163.7	1133.2	1122.1	1111.0	1122.1	1124.9
50°	1565.4	1407.5	1255.2	1108.2	997.4	933.6	894.9	878.3	875.5	875.5	881.1
52.5°	1365.9	1219.2	1066.7	917.1	800.7	739.8	703.8	695.5	684.3	695.5	695.5
55°	1177.5	1030.7	881.1	739.8	642.7	579.2	545.8	534.7	529.2	537.5	537.5
57.5°	972.6	847.8	709.3	581.8	484.9	440.6	415.6	401.7	398.9	404.6	398.9
60°	798.0	692.7	573.5	457.2	382.4	335.2	315.9	310.3	304.8	310.3	310.3
62.5°	631.7	543.0	446.1	357.4	293.6	260.4	238.3	238.3	235.5	235.5	238.3
65°	468.2	398.9	329.7	254.9	205.1	180.1	163.5	163.5	160.6	163.5	160.6
67.5°	340.8	293.6	238.3	185.6	146.9	133.0	122.0	113.6	119.1	113.6	110.8
70°	249.4	210.5	171.8	141.3	113.6	99.8	91.5	88.6	83.1	83.1	83.1
72.5°	166.3	141.3	116.3	91.5	74.8	60.9	58.2	52.6	47.1	49.8	55.5
75°	110.8	94.2	83.1	66.5	49.8	49.8	33.3	33.3	27.7	33.3	25.0
77.5°	77.5	63.8	49.8	41.5	33.3	30.5	22.2	22.2	19.3	19.3	19.3
80°	55.5	47.1	36.0	30.5	22.2	22.2	19.3	16.7	13.8	13.8	16.7
82.5°	33.3	25.0	25.0	22.2	13.8	11.0	8.3	11.0	5.6	5.6	5.6
85°	19.3	16.7	13.8	8.3	5.6	5.6	2.7	0.0	2.7	2.7	0.0
87.5°	11.0	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°	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3
2.5°	5707.6	5704.8	5710.3	5710.3	5726.9	5724.1	5732.4	5732.4	5726.9	5729.7	5740.8
5°	5726.9	5735.2	5751.8	5765.7	5790.6	5801.7	5815.6	5829.5	5832.2	5840.6	5848.9
7.5°	5726.9	5754.7	5774.1	5798.9	5832.2	5851.6	5882.1	5907.0	5918.1	5931.9	5948.6
10°	5715.8	5743.5	5779.6	5807.2	5848.9	5879.4	5909.7	5948.6	5965.2	5987.4	6009.5
12.5°	5693.6	5724.1	5762.9	5798.9	5846.1	5873.7	5912.6	5948.6	5973.5	6004.0	6029.0
15°	5660.4	5696.4	5732.4	5768.4	5818.3	5851.6	5887.7	5929.2	5954.2	5987.4	6009.5
17.5°	5607.8	5646.6	5679.9	5713.1	5760.1	5798.9	5832.2	5871.0	5896.0	5923.7	5954.2
20°	5544.0	5580.1	5616.1	5643.8	5690.9	5724.1	5760.1	5796.2	5815.6	5821.2	5868.2
22.5°	5463.8	5488.7	5516.3	5560.7	5588.4	5618.8	5652.1	5685.3	5704.8	5735.2	5751.8
25°	5330.7	5355.7	5386.0	5405.5	5438.8	5463.8	5497.0	5533.0	5544.0	5566.3	5582.8
27.5°	5145.1	5158.9	5172.9	5189.4	5208.8	5222.7	5242.0	5258.7	5269.7	5280.9	5291.9
30°	4851.3	4851.3	4851.3	4840.3	4848.6	4857.0	4859.7	4857.0	4857.0	4854.2	4854.2
32.5°	4463.6	4441.4	4416.4	4394.2	4385.9	4374.9	4369.3	4361.0	4347.2	4338.9	4341.6
35°	3939.9	3890.0	3859.5	3831.9	3809.7	3793.0	3784.7	3776.4	3773.7	3762.6	3751.4
37.5°	3286.0	3250.0	3227.8	3211.2	3191.8	3175.2	3177.9	3180.7	3188.9	3183.5	3186.2
40°	2593.4	2585.0	2593.4	2573.9	2568.4	2573.9	2587.7	2607.2	2618.3	2629.4	2648.7
42.5°	1972.7	1986.5	2006.0	2006.0	2014.2	2025.3	2041.9	2072.5	2089.0	2108.4	2130.6
45°	1485.1	1501.8	1526.7	1534.8	1540.5	1554.3	1573.8	1598.6	1609.6	1626.3	1645.8
47.5°	1144.4	1155.4	1169.2	1183.0	1196.9	1202.5	1221.9	1221.9	1235.8	1246.8	1252.4
50°	892.1	903.3	914.3	922.6	928.2	936.6	942.0	950.3	953.1	958.6	961.4
52.5°	698.2	712.1	712.1	717.5	725.8	734.2	731.5	734.2	737.0	737.0	745.3
55°	545.8	545.8	554.2	554.2	559.7	556.9	559.7	559.7	559.7	559.7	562.5
57.5°	407.2	410.1	418.4	412.9	410.1	415.6	410.1	415.6	412.9	418.4	410.1
60°	313.1	313.1	315.9	315.9	318.6	318.6	318.6	315.9	315.9	313.1	313.1
62.5°	235.5	238.3	241.1	238.3	238.3	238.3	235.5	235.5	232.8	230.0	230.0
65°	158.0	155.2	160.6	155.2	158.0	158.0	155.2	158.0	149.6	152.3	149.6
67.5°	113.6	110.8	108.1	110.8	108.1	105.3	105.3	108.1	110.8	102.5	102.5
70°	74.8	77.5	74.8	77.5	80.4	80.4	77.5	74.8	77.5	72.1	74.8
72.5°	47.1	47.1	47.1	47.1	47.1	49.8	49.8	49.8	44.3	44.3	41.5
75°	22.2	30.5	25.0	22.2	30.5	30.5	27.7	27.7	25.0	25.0	25.0
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°	11.0	11.0	11.0	8.3	11.0	11.0	13.8	11.0	11.0	8.3	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: P249069

CATALOG NUMBER: LD8B120D010 ER8B120927 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3
2.5°	5738.1	5735.2	5738.1	5740.8	5738.1	5735.2	5738.1	5740.8	5729.7	5726.9	5732.4
5°	5859.9	5859.9	5865.4	5868.2	5865.4	5859.9	5859.9	5848.9	5840.6	5832.2	5829.5
7.5°	5965.2	5970.8	5976.2	5979.0	5976.2	5970.8	5965.2	5948.6	5931.9	5918.1	5907.0
10°	6029.0	6037.3	6048.3	6053.8	6048.3	6037.3	6029.0	6009.5	5987.4	5965.2	5948.6
12.5°	6056.7	6065.0	6078.8	6076.0	6078.8	6065.0	6056.7	6029.0	6004.0	5973.5	5948.6
15°	6037.3	6048.3	6062.2	6067.7	6062.2	6048.3	6037.3	6009.5	5987.4	5954.2	5929.2
17.5°	5976.2	5992.9	6001.2	6009.5	6001.2	5992.9	5976.2	5954.2	5923.7	5896.0	5871.0
20°	5893.1	5904.3	5915.4	5918.1	5915.4	5904.3	5893.1	5868.2	5821.2	5815.6	5796.2
22.5°	5774.1	5782.4	5807.2	5798.9	5807.2	5782.4	5774.1	5751.8	5735.2	5704.8	5685.3
25°	5602.2	5610.5	5613.4	5616.1	5613.4	5610.5	5602.2	5582.8	5566.3	5544.0	5533.0
27.5°	5305.8	5305.8	5311.2	5314.2	5311.2	5305.8	5305.8	5291.9	5280.9	5269.7	5258.7
30°	4857.0	4857.0	4857.0	4870.8	4857.0	4857.0	4857.0	4854.2	4854.2	4857.0	4857.0
32.5°	4338.9	4333.3	4327.8	4333.3	4327.8	4333.3	4338.9	4341.6	4338.9	4347.2	4361.0
35°	3751.4	3748.7	3757.0	3745.9	3757.0	3748.7	3751.4	3751.4	3762.6	3773.7	3776.4
37.5°	3188.9	3183.5	3194.5	3183.5	3194.5	3183.5	3188.9	3186.2	3183.5	3188.9	3180.7
40°	2654.3	2659.8	2659.8	2682.0	2659.8	2659.8	2654.3	2648.7	2629.4	2618.3	2607.2
42.5°	2141.7	2158.3	2152.8	2169.5	2152.8	2158.3	2141.7	2130.6	2108.4	2089.0	2072.5
45°	1656.8	1667.9	1667.9	1673.4	1667.9	1667.9	1656.8	1645.8	1626.3	1609.6	1598.6
47.5°	1271.7	1271.7	1271.7	1274.5	1271.7	1271.7	1271.7	1252.4	1246.8	1235.8	1221.9
50°	966.9	969.8	972.6	975.3	972.6	969.8	966.9	961.4	958.6	953.1	950.3
52.5°	742.5	745.3	739.8	745.3	739.8	745.3	742.5	745.3	737.0	737.0	734.2
55°	562.5	559.7	562.5	565.2	562.5	559.7	562.5	562.5	559.7	559.7	559.7
57.5°	412.9	407.2	407.2	407.2	407.2	407.2	412.9	410.1	418.4	412.9	415.6
60°	307.6	310.3	310.3	313.1	310.3	310.3	307.6	313.1	313.1	315.9	315.9
62.5°	227.1	235.5	230.0	235.5	230.0	235.5	227.1	230.0	230.0	232.8	235.5
65°	146.9	146.9	146.9	149.6	146.9	146.9	146.9	149.6	152.3	149.6	158.0
67.5°	99.8	102.5	108.1	105.3	108.1	102.5	99.8	102.5	102.5	110.8	108.1
70°	80.4	72.1	72.1	80.4	72.1	72.1	80.4	74.8	72.1	77.5	74.8
72.5°	47.1	41.5	47.1	47.1	47.1	41.5	47.1	41.5	44.3	44.3	49.8
75°	25.0	22.2	19.3	27.7	19.3	22.2	25.0	25.0	25.0	25.0	27.7
77.5°	16.7	13.8	19.3	19.3	19.3	13.8	16.7	13.8	16.7	13.8	16.7
80°	8.3	11.0	8.3	13.8	8.3	11.0	8.3	13.8	8.3	11.0	11.0
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: P249069

CATALOG NUMBER: LD8B120D010 ER8B120927 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3
2.5°	5732.4	5724.1	5726.9	5710.3	5710.3	5704.8	5707.6	5693.6	5688.2	5682.6	5690.9
5°	5815.6	5801.7	5790.6	5765.7	5751.8	5735.2	5726.9	5704.8	5685.3	5668.7	5666.0
7.5°	5882.1	5851.6	5832.2	5798.9	5774.1	5754.7	5726.9	5696.4	5671.6	5649.3	5632.8
10°	5909.7	5879.4	5848.9	5807.2	5779.6	5743.5	5715.8	5677.0	5643.8	5613.4	5593.8
12.5°	5912.6	5873.7	5846.1	5798.9	5762.9	5724.1	5693.6	5649.3	5610.5	5580.1	5549.6
15°	5887.7	5851.6	5818.3	5768.4	5732.4	5696.4	5660.4	5613.4	5577.3	5541.3	5519.1
17.5°	5832.2	5798.9	5760.1	5713.1	5679.9	5646.6	5607.8	5569.0	5527.3	5488.7	5460.9
20°	5760.1	5724.1	5690.9	5643.8	5616.1	5580.1	5544.0	5502.5	5469.2	5430.5	5400.0
22.5°	5652.1	5618.8	5588.4	5560.7	5516.3	5488.7	5463.8	5416.7	5383.3	5347.3	5314.2
25°	5497.0	5463.8	5438.8	5405.5	5386.0	5355.7	5330.7	5289.2	5258.7	5225.4	5197.7
27.5°	5242.0	5222.7	5208.8	5189.4	5172.9	5158.9	5145.1	5111.8	5089.7	5059.2	5031.6
30°	4859.7	4857.0	4848.6	4840.3	4851.3	4851.3	4851.3	4845.8	4826.5	4804.2	4784.8
32.5°	4369.3	4374.9	4385.9	4394.2	4416.4	4441.4	4463.6	4474.6	4474.6	4460.7	4452.4
35°	3784.7	3793.0	3809.7	3831.9	3859.5	3890.0	3939.9	3951.0	3959.2	3959.2	3948.2
37.5°	3177.9	3175.2	3191.8	3211.2	3227.8	3250.0	3286.0	3294.3	3308.2	3302.7	3291.5
40°	2587.7	2573.9	2568.4	2573.9	2593.4	2585.0	2593.4	2587.7	2587.7	2568.4	2568.4
42.5°	2041.9	2025.3	2014.2	2006.0	2006.0	1986.5	1972.7	1958.8	1950.5	1936.7	1933.9
45°	1573.8	1554.3	1540.5	1534.8	1526.7	1501.8	1485.1	1468.5	1449.0	1443.6	1446.3
47.5°	1221.9	1202.5	1196.9	1183.0	1169.2	1155.4	1144.4	1124.9	1122.1	1111.0	1122.1
50°	942.0	936.6	928.2	922.6	914.3	903.3	892.1	881.1	875.5	875.5	878.3
52.5°	731.5	734.2	725.8	717.5	712.1	712.1	698.2	695.5	695.5	684.3	695.5
55°	559.7	556.9	559.7	554.2	554.2	545.8	545.8	537.5	537.5	529.2	534.7
57.5°	410.1	415.6	410.1	412.9	418.4	410.1	407.2	398.9	404.6	398.9	401.7
60°	318.6	318.6	318.6	315.9	315.9	313.1	313.1	310.3	310.3	304.8	310.3
62.5°	235.5	238.3	238.3	238.3	241.1	238.3	235.5	238.3	235.5	235.5	238.3
65°	155.2	158.0	158.0	155.2	160.6	155.2	158.0	160.6	163.5	160.6	163.5
67.5°	105.3	105.3	108.1	110.8	108.1	110.8	113.6	110.8	113.6	119.1	113.6
70°	77.5	80.4	80.4	77.5	74.8	77.5	74.8	83.1	83.1	83.1	88.6
72.5°	49.8	49.8	47.1	47.1	47.1	47.1	47.1	55.5	49.8	47.1	52.6
75°	27.7	30.5	30.5	22.2	25.0	30.5	22.2	25.0	33.3	27.7	33.3
77.5°	16.7	16.7	16.7	16.7	16.7	16.7	22.2	19.3	19.3	19.3	22.2
80°	13.8	11.0	11.0	8.3	11.0	11.0	11.0	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	11.0
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: P249069

CATALOG NUMBER: LD8B120D010 ER8B120927 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3
2.5°	5668.7	5668.7	5666.0	5660.4	5649.3	5649.3	5646.6	5638.3	5632.8	5630.0	5630.0
5°	5641.0	5630.0	5618.8	5588.4	5588.4	5582.8	5566.3	5555.1	5549.6	5535.7	5530.3
7.5°	5616.1	5582.8	5563.5	5544.0	5519.1	5508.0	5488.7	5480.3	5460.9	5447.1	5438.8
10°	5555.1	5533.0	5508.0	5477.5	5458.2	5436.0	5413.8	5397.3	5372.3	5358.4	5347.3
12.5°	5513.6	5480.3	5458.2	5424.9	5391.7	5372.3	5341.8	5322.5	5297.5	5269.7	5253.1
15°	5474.8	5438.8	5408.3	5372.3	5336.2	5314.2	5278.0	5256.0	5219.9	5192.2	5172.9
17.5°	5416.7	5386.0	5352.9	5308.5	5275.3	5247.7	5208.8	5181.2	5147.9	5111.8	5092.4
20°	5355.7	5319.6	5286.4	5242.0	5208.8	5175.6	5136.8	5106.4	5067.4	5034.3	5012.1
22.5°	5275.3	5233.7	5206.0	5161.6	5122.9	5086.9	5050.9	5014.9	4978.8	4951.1	4926.2
25°	5158.9	5114.6	5084.1	5048.1	5012.1	4984.4	4940.1	4917.9	4881.9	4857.0	4832.0
27.5°	4992.6	4959.4	4931.8	4895.7	4865.3	4843.1	4809.8	4787.7	4757.2	4735.0	4715.7
30°	4749.0	4721.3	4696.3	4660.2	4638.2	4618.7	4588.2	4568.7	4546.7	4521.7	4516.2
32.5°	4422.0	4399.8	4374.9	4349.9	4333.3	4322.2	4297.3	4286.1	4264.1	4250.1	4236.3
35°	3928.7	3909.4	3895.5	3884.5	3878.9	3881.7	3876.2	3887.2	3892.7	3890.0	3892.7
37.5°	3283.3	3272.1	3277.7	3286.0	3313.7	3349.8	3383.0	3432.8	3466.1	3499.4	3529.8
40°	2562.9	2571.2	2593.4	2643.2	2715.2	2795.6	2870.4	2964.6	3058.9	3125.4	3186.2
42.5°	1933.9	1958.8	2014.2	2086.3	2194.4	2313.5	2429.9	2568.4	2682.0	2792.8	2870.4
45°	1454.6	1487.8	1559.8	1659.6	1778.7	1917.2	2064.2	2219.3	2355.1	2468.7	2554.5
47.5°	1133.2	1163.7	1235.8	1341.0	1487.8	1631.9	1784.2	1945.0	2086.3	2197.1	2271.9
50°	894.9	933.6	997.4	1108.2	1255.2	1407.5	1565.4	1723.3	1856.4	1950.5	2017.0
52.5°	703.8	739.8	800.7	917.1	1066.7	1219.2	1365.9	1521.1	1637.4	1728.9	1773.2
55°	545.8	579.2	642.7	739.8	881.1	1030.7	1177.5	1310.6	1418.6	1485.1	1526.7
57.5°	415.6	440.6	484.9	581.8	709.3	847.8	972.6	1105.5	1188.7	1235.8	1263.4
60°	315.9	335.2	382.4	457.2	573.5	692.7	798.0	897.8	964.2	1003.0	1030.7
62.5°	238.3	260.4	293.6	357.4	446.1	543.0	631.7	706.5	762.0	786.9	806.3
65°	163.5	180.1	205.1	254.9	329.7	398.9	468.2	523.7	559.7	587.5	598.5
67.5°	122.0	133.0	146.9	185.6	238.3	293.6	340.8	379.6	418.4	429.5	448.9
70°	91.5	99.8	113.6	141.3	171.8	210.5	249.4	271.6	299.2	318.6	324.2
72.5°	58.2	60.9	74.8	91.5	116.3	141.3	166.3	185.6	202.3	213.4	218.8
75°	33.3	49.8	49.8	66.5	83.1	94.2	110.8	124.6	133.0	141.3	141.3
77.5°	22.2	30.5	33.3	41.5	49.8	63.8	77.5	85.8	94.2	97.0	97.0
80°	19.3	22.2	22.2	30.5	36.0	47.1	55.5	58.2	63.8	66.5	72.1
82.5°	8.3	11.0	13.8	22.2	25.0	25.0	33.3	36.0	41.5	44.3	44.3
85°	2.7	5.6	5.6	8.3	13.8	16.7	19.3	22.2	25.0	25.0	27.7
87.5°	2.7	2.7	0.0	2.7	5.6	5.6	11.0	11.0	11.0	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: P249069

CATALOG NUMBER: LD8B120D010 ER8B120927 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3	5674.3
2.5°	5624.4	5627.1	5616.1	5613.4	5607.8	5610.5	5616.1
5°	5522.0	5524.7	5513.6	5502.5	5502.5	5499.7	5502.5
7.5°	5424.9	5427.7	5411.0	5405.5	5394.4	5397.3	5397.3
10°	5327.9	5327.9	5303.0	5300.2	5291.9	5289.2	5289.2
12.5°	5233.7	5225.4	5206.0	5194.9	5200.5	5183.9	5183.9
15°	5150.6	5136.8	5111.8	5103.4	5089.7	5084.1	5084.1
17.5°	5064.8	5053.6	5031.6	5014.9	4998.3	4995.4	4998.3
20°	4981.6	4970.5	4942.8	4931.8	4917.9	4917.9	4912.3
22.5°	4898.5	4887.3	4862.5	4854.2	4834.8	4834.8	4837.5
25°	4812.5	4804.2	4776.5	4771.0	4768.3	4757.2	4762.7
27.5°	4696.3	4690.7	4668.5	4660.2	4649.2	4646.5	4651.9
30°	4482.9	4474.6	4458.0	4449.7	4430.4	4433.1	4438.6
32.5°	4217.0	4205.9	4183.7	4175.3	4158.8	4153.2	4156.0
35°	3884.5	3876.2	3856.8	3856.8	3840.2	3834.6	3840.2
37.5°	3546.4	3554.7	3546.4	3554.7	3546.4	3543.6	3546.4
40°	3227.8	3258.3	3263.7	3294.3	3283.3	3299.8	3297.0
42.5°	2923.0	2972.8	2992.4	3017.2	3011.7	3022.8	3031.1
45°	2615.4	2657.0	2676.5	2693.1	2695.8	2701.5	2704.2
47.5°	2324.5	2357.8	2360.6	2379.9	2377.2	2377.2	2385.6
50°	2053.1	2075.2	2080.7	2094.6	2083.5	2078.0	2080.7
52.5°	1800.9	1823.1	1817.4	1823.1	1809.2	1803.7	1806.4
55°	1543.2	1554.3	1554.3	1554.3	1537.8	1537.8	1537.8
57.5°	1280.0	1282.8	1277.3	1280.0	1277.3	1260.7	1257.9
60°	1039.0	1039.0	1036.2	1039.0	1030.7	1022.4	1022.4
62.5°	811.8	817.3	828.4	817.3	811.8	817.3	809.0
65°	606.8	617.8	615.0	620.7	617.8	617.8	612.3
67.5°	457.2	459.9	462.7	465.5	465.5	465.5	465.5
70°	335.2	343.6	340.8	340.8	340.8	340.8	357.4
72.5°	224.4	235.5	232.8	238.3	238.3	243.8	238.3
75°	152.3	163.5	158.0	166.3	163.5	158.0	171.8
77.5°	102.5	108.1	110.8	113.6	110.8	108.1	110.8
80°	72.1	77.5	74.8	77.5	77.5	77.5	80.4
82.5°	44.3	52.6	49.8	52.6	49.8	52.6	52.6
85°	30.5	33.3	27.7	33.3	30.5	30.5	36.0
87.5°	19.3	16.7	16.7	19.3	16.7	19.3	16.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)