

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: P248853

Luminaire Tested: **LD8B120D010 ER8B1209727 8LBSW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248853  
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 ER8B1209727 8LBSW0GPH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7946.0 lumens  
Efficiency: N/A  
Efficacy: 67.2 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

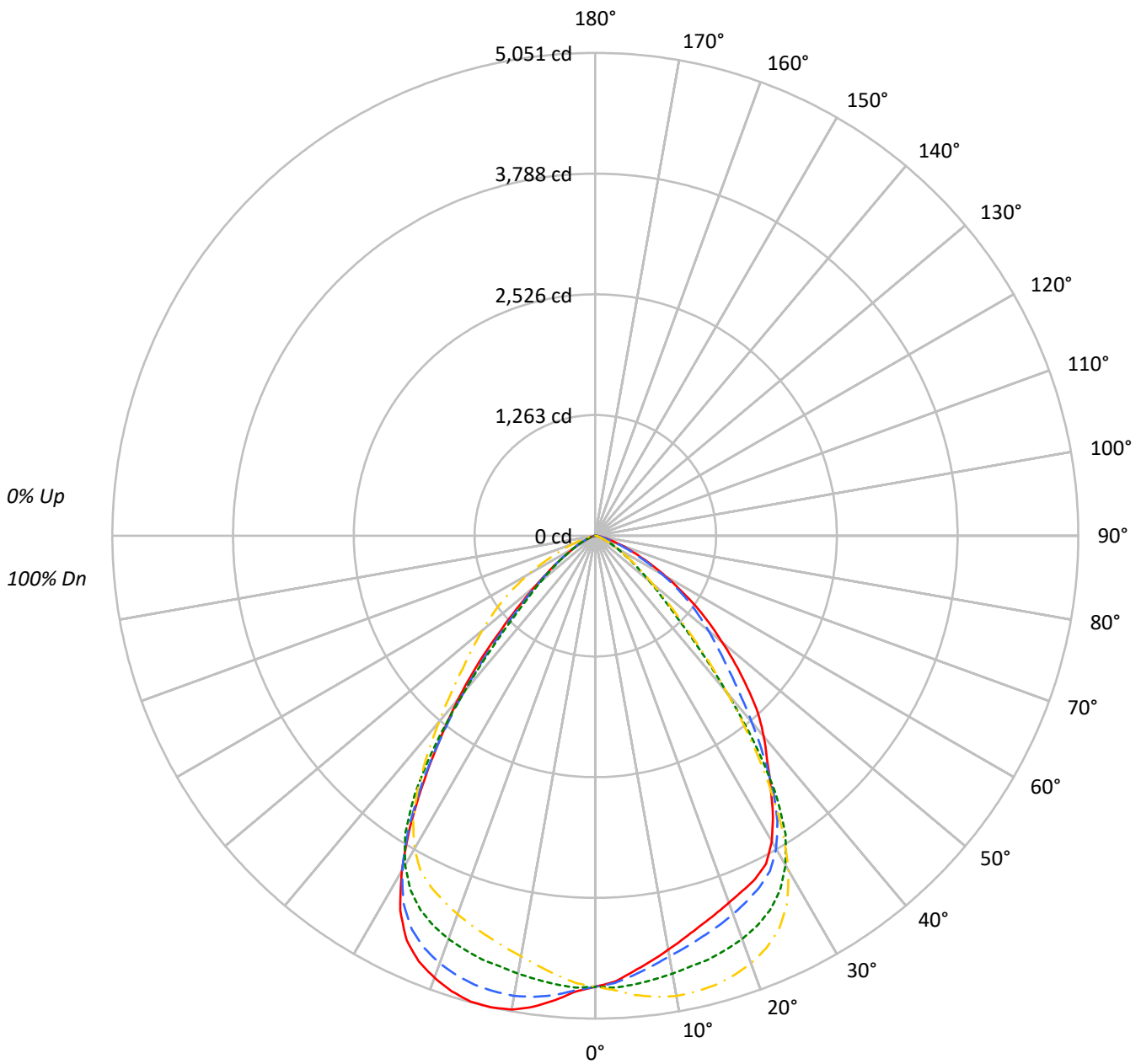
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - · - 90°-270°    - · - 135°-315°



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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°	449.0	5.7
10°-20°	1300.2	16.4
20°-30°	1968.8	24.8
30°-40°	1973.2	24.8
40°-50°	1239.1	15.6
50°-60°	660.3	8.3
60°-70°	271.5	3.4
70°-80°	71.7	0.9
80°-90°	12.1	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°	3718.0	46.8
0°-40°	5691.2	71.6
0°-60°	7590.6	95.5
0°-90°	7946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7946.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4717	4717	4717	4717	4717	
5°	4574	4710	4879	4710	4574	431
15°	4227	4588	5044	4588	4227	1195
25°	3960	4321	4669	4321	3960	1816
35°	3192	3282	3114	3282	3192	2000
45°	2248	1202	1391	1202	2248	1729
55°	1278	445	470	445	1278	1140
65°	509	136	124	136	509	528
75°	143	28	23	28	143	162
85°	30	0	2	0	30	33
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°	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3
2.5°	4668.9	4664.3	4662.0	4666.7	4668.9	4678.1	4675.9	4680.4	4680.4	4682.8	4687.3
5°	4574.5	4572.1	4574.5	4574.5	4583.7	4592.9	4590.6	4597.5	4602.1	4613.7	4618.2
7.5°	4487.0	4487.0	4484.6	4493.8	4498.5	4512.3	4509.9	4521.5	4528.4	4539.9	4556.0
10°	4397.1	4397.1	4399.4	4406.3	4408.7	4429.4	4429.4	4445.5	4454.7	4466.2	4487.0
12.5°	4309.6	4309.6	4323.5	4318.8	4328.0	4344.1	4351.0	4367.2	4381.0	4404.0	4424.8
15°	4226.7	4226.7	4231.3	4242.8	4249.7	4270.5	4281.9	4300.4	4316.5	4339.6	4369.5
17.5°	4155.3	4153.0	4155.3	4169.1	4182.9	4201.3	4210.5	4233.6	4249.7	4279.7	4307.3
20°	4083.9	4088.5	4088.5	4100.0	4109.2	4132.2	4141.4	4166.8	4185.2	4212.8	4245.1
22.5°	4021.7	4019.4	4019.4	4035.5	4042.4	4063.1	4072.3	4095.3	4116.1	4139.1	4169.1
25°	3959.5	3954.8	3964.1	3966.4	3971.0	3994.0	4000.9	4017.0	4037.8	4058.6	4088.5
27.5°	3867.3	3862.8	3865.1	3874.3	3881.2	3899.6	3904.2	3920.3	3936.4	3954.8	3980.2
30°	3689.9	3685.4	3683.1	3699.2	3706.2	3719.9	3726.8	3754.5	3759.1	3779.8	3798.2
32.5°	3455.0	3452.7	3457.4	3471.1	3478.0	3496.5	3505.7	3521.8	3533.3	3544.9	3563.3
35°	3192.5	3187.8	3192.5	3206.3	3206.3	3222.4	3229.4	3236.2	3233.9	3236.2	3231.6
37.5°	2948.4	2946.0	2948.4	2955.2	2948.4	2955.2	2948.4	2934.5	2909.2	2881.5	2853.8
40°	2741.0	2743.3	2729.5	2738.7	2713.3	2708.8	2683.5	2648.9	2598.2	2543.0	2464.6
42.5°	2519.9	2513.0	2503.8	2508.3	2487.7	2471.5	2430.0	2386.3	2321.8	2229.7	2135.2
45°	2248.1	2245.8	2241.2	2238.9	2225.1	2208.9	2174.3	2123.7	2052.3	1957.9	1845.0
47.5°	1983.2	1976.3	1976.3	1978.6	1962.4	1960.2	1932.5	1888.8	1826.6	1734.4	1617.0
50°	1729.8	1727.5	1732.2	1741.3	1729.8	1725.2	1706.8	1676.9	1621.6	1543.3	1432.7
52.5°	1501.8	1499.5	1504.1	1515.6	1511.0	1515.6	1497.2	1474.2	1437.3	1361.3	1264.6
55°	1278.4	1278.4	1278.4	1292.1	1292.1	1292.1	1282.9	1269.2	1234.6	1179.3	1089.5
57.5°	1045.7	1048.0	1061.9	1064.1	1061.9	1066.5	1064.1	1050.3	1027.3	988.2	919.1
60°	850.0	850.0	856.9	863.8	861.4	863.8	863.8	856.9	833.8	801.6	746.3
62.5°	672.6	679.5	674.8	679.5	688.7	679.5	674.8	670.3	654.2	633.4	587.3
65°	509.0	513.7	513.7	515.9	511.3	513.7	504.5	497.6	488.4	465.3	435.4
67.5°	387.0	387.0	387.0	387.0	384.6	382.4	380.1	373.2	357.0	347.9	315.5
70°	297.1	283.3	283.3	283.3	283.3	285.7	278.7	269.5	264.9	248.8	225.7
72.5°	198.1	202.7	198.1	198.1	193.5	195.8	186.6	181.9	177.4	168.2	154.3
75°	142.8	131.3	135.9	138.2	131.3	135.9	126.7	117.5	117.5	110.5	103.6
77.5°	92.2	89.9	92.2	94.4	92.2	89.9	85.2	80.6	80.6	78.3	71.4
80°	66.8	64.5	64.5	64.5	62.2	64.5	59.9	59.9	55.3	53.0	48.4
82.5°	43.8	43.8	41.4	43.8	41.4	43.8	36.9	36.9	36.9	34.5	30.0
85°	30.0	25.3	25.3	27.7	23.0	27.7	25.3	23.0	20.8	20.8	18.4
87.5°	13.8	16.1	13.8	16.1	13.8	13.8	16.1	13.8	13.8	9.2	9.2
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°	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3
2.5°	4694.3	4696.5	4696.5	4705.8	4710.4	4712.6	4712.6	4731.1	4724.2	4728.9	4733.4
5°	4627.5	4641.3	4645.9	4645.9	4671.2	4680.4	4689.6	4710.4	4712.6	4726.5	4742.6
7.5°	4562.9	4579.1	4588.3	4609.0	4625.1	4641.3	4668.9	4682.8	4696.5	4715.0	4735.7
10°	4500.7	4519.2	4537.6	4553.7	4579.1	4599.8	4618.2	4650.4	4666.7	4692.0	4719.6
12.5°	4440.9	4466.2	4482.4	4509.9	4537.6	4556.0	4583.7	4613.7	4639.0	4664.3	4696.5
15°	4387.9	4417.9	4436.3	4466.2	4496.2	4521.5	4551.5	4588.3	4606.7	4636.7	4666.7
17.5°	4330.3	4362.6	4385.6	4413.2	4450.1	4477.7	4503.1	4539.9	4562.9	4595.2	4629.8
20°	4270.5	4302.7	4330.3	4358.0	4394.8	4422.4	4452.4	4489.3	4514.6	4546.8	4574.5
22.5°	4199.1	4229.0	4258.9	4291.1	4328.0	4351.0	4385.6	4417.9	4445.5	4475.4	4503.1
25°	4106.9	4143.8	4166.8	4196.7	4226.7	4252.0	4288.8	4321.1	4344.1	4371.8	4397.1
27.5°	3998.6	4026.3	4044.7	4070.0	4100.0	4123.0	4150.6	4182.9	4206.0	4231.3	4249.7
30°	3814.3	3839.7	3855.9	3874.3	3904.2	3925.0	3948.0	3977.9	3994.0	4012.5	4028.6
32.5°	3572.5	3593.2	3602.4	3616.3	3637.0	3657.7	3676.2	3701.5	3708.4	3719.9	3719.9
35°	3222.4	3227.0	3224.7	3229.4	3238.6	3250.0	3266.2	3282.3	3291.5	3291.5	3284.6
37.5°	2812.4	2784.8	2754.8	2731.8	2724.9	2720.2	2729.5	2736.4	2745.7	2750.2	2738.7
40°	2386.3	2324.1	2257.3	2197.4	2155.9	2137.6	2130.6	2135.2	2135.2	2151.3	2151.3
42.5°	2020.1	1923.3	1824.3	1734.4	1674.5	1628.5	1607.8	1607.8	1610.0	1621.6	1628.5
45°	1716.0	1593.9	1478.7	1379.7	1296.8	1236.9	1209.3	1202.4	1200.1	1204.6	1220.8
47.5°	1483.4	1356.7	1236.9	1114.9	1027.3	967.4	942.1	932.8	923.6	932.8	935.2
50°	1301.4	1170.1	1043.5	921.3	829.2	776.2	744.0	730.1	727.8	727.8	732.5
52.5°	1135.5	1013.5	886.8	762.4	665.7	615.0	585.1	578.1	568.9	578.1	578.1
55°	978.9	856.9	732.5	615.0	534.3	481.4	453.8	444.6	439.9	446.8	446.8
57.5°	808.5	704.8	589.7	483.7	403.1	366.2	345.5	334.0	331.6	336.3	331.6
60°	663.4	575.9	476.8	380.1	317.9	278.7	262.6	258.0	253.3	258.0	258.0
62.5°	525.1	451.5	370.8	297.1	244.1	216.5	198.1	198.1	195.8	195.8	198.1
65°	389.3	331.6	274.1	211.9	170.5	149.7	135.9	135.9	133.6	135.9	133.6
67.5°	283.3	244.1	198.1	154.3	122.1	110.5	101.4	94.4	99.1	94.4	92.2
70°	207.3	175.0	142.8	117.5	94.4	83.0	76.0	73.7	69.1	69.1	69.1
72.5°	138.2	117.5	96.7	76.0	62.2	50.6	48.4	43.8	39.2	41.4	46.1
75°	92.2	78.3	69.1	55.3	41.4	41.4	27.7	27.7	23.0	27.7	20.8
77.5°	64.5	53.0	41.4	34.5	27.7	25.3	18.4	18.4	16.1	16.1	16.1
80°	46.1	39.2	30.0	25.3	18.4	18.4	16.1	13.8	11.5	11.5	13.8
82.5°	27.7	20.8	20.8	18.4	11.5	9.2	6.9	9.2	4.6	4.6	4.6
85°	16.1	13.8	11.5	6.9	4.6	4.6	2.3	0.0	2.3	2.3	0.0
87.5°	9.2	4.6	4.6	2.3	0.0	2.3	2.3	0.0	0.0	0.0	4.6
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°	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3
2.5°	4745.0	4742.6	4747.2	4747.2	4761.1	4758.7	4765.6	4765.6	4761.1	4763.4	4772.6
5°	4761.1	4768.0	4781.8	4793.3	4814.0	4823.3	4834.8	4846.3	4848.6	4855.5	4862.4
7.5°	4761.1	4784.1	4800.2	4820.9	4848.6	4864.7	4890.0	4910.8	4920.0	4931.5	4945.3
10°	4751.8	4774.8	4804.8	4827.8	4862.4	4887.8	4913.1	4945.3	4959.1	4977.5	4996.0
12.5°	4733.4	4758.7	4791.0	4820.9	4860.1	4883.1	4915.3	4945.3	4966.1	4991.4	5012.1
15°	4705.8	4735.7	4765.6	4795.6	4837.0	4864.7	4894.7	4929.2	4949.9	4977.5	4996.0
17.5°	4662.0	4694.3	4721.9	4749.5	4788.7	4820.9	4848.6	4880.8	4901.6	4924.6	4949.9
20°	4609.0	4639.0	4668.9	4692.0	4731.1	4758.7	4788.7	4818.6	4834.8	4839.4	4878.6
22.5°	4542.3	4562.9	4586.0	4622.9	4645.9	4671.2	4698.9	4726.5	4742.6	4768.0	4781.8
25°	4431.6	4452.4	4477.7	4493.8	4521.5	4542.3	4569.9	4599.8	4609.0	4627.5	4641.3
27.5°	4277.4	4288.8	4300.4	4314.2	4330.3	4341.8	4358.0	4371.8	4381.0	4390.2	4399.4
30°	4033.2	4033.2	4033.2	4024.0	4030.9	4037.8	4040.1	4037.8	4037.8	4035.5	4035.5
32.5°	3710.7	3692.3	3671.6	3653.2	3646.2	3637.0	3632.4	3625.5	3614.0	3607.1	3609.4
35°	3275.3	3233.9	3208.6	3185.6	3167.2	3153.3	3146.4	3139.5	3137.2	3128.0	3118.7
37.5°	2731.8	2701.9	2683.5	2669.6	2653.5	2639.7	2641.9	2644.3	2651.1	2646.6	2648.9
40°	2155.9	2149.0	2155.9	2139.8	2135.2	2139.8	2151.3	2167.5	2176.7	2185.9	2202.0
42.5°	1640.0	1651.5	1667.7	1667.7	1674.5	1683.8	1697.5	1723.0	1736.7	1752.8	1771.3
45°	1234.6	1248.4	1269.2	1276.0	1280.7	1292.1	1308.4	1329.0	1338.2	1352.1	1368.2
47.5°	951.3	960.5	972.0	983.5	995.0	999.7	1015.8	1015.8	1027.3	1036.5	1041.1
50°	741.7	750.9	760.1	767.0	771.6	778.6	783.1	790.0	792.3	797.0	799.2
52.5°	580.4	592.0	592.0	596.5	603.5	610.4	608.1	610.4	612.7	612.7	619.6
55°	453.8	453.8	460.7	460.7	465.3	462.9	465.3	465.3	465.3	465.3	467.6
57.5°	338.6	340.9	347.9	343.2	340.9	345.5	340.9	345.5	343.2	347.9	340.9
60°	260.2	260.2	262.6	262.6	264.9	264.9	264.9	262.6	262.6	260.2	260.2
62.5°	195.8	198.1	200.4	198.1	198.1	198.1	195.8	195.8	193.5	191.1	191.1
65°	131.3	129.0	133.6	129.0	131.3	131.3	129.0	131.3	124.4	126.7	124.4
67.5°	94.4	92.2	89.9	92.2	89.9	87.5	87.5	89.9	92.2	85.2	85.2
70°	62.2	64.5	62.2	64.5	66.8	66.8	64.5	62.2	64.5	59.9	62.2
72.5°	39.2	39.2	39.2	39.2	39.2	41.4	41.4	41.4	36.9	36.9	34.5
75°	18.4	25.3	20.8	18.4	25.3	25.3	23.0	23.0	20.8	20.8	20.8
77.5°	18.4	13.8	13.8	13.8	13.8	13.8	13.8	13.8	11.5	13.8	11.5
80°	9.2	9.2	9.2	6.9	9.2	9.2	11.5	9.2	9.2	6.9	11.5
82.5°	4.6	4.6	4.6	0.0	2.3	4.6	4.6	2.3	4.6	4.6	2.3
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: P248853

CATALOG NUMBER: LD8B120D010 ER8B1209727 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3
2.5°	4770.3	4768.0	4770.3	4772.6	4770.3	4768.0	4770.3	4772.6	4763.4	4761.1	4765.6
5°	4871.6	4871.6	4876.2	4878.6	4876.2	4871.6	4871.6	4862.4	4855.5	4848.6	4846.3
7.5°	4959.1	4963.8	4968.3	4970.6	4968.3	4963.8	4959.1	4945.3	4931.5	4920.0	4910.8
10°	5012.1	5019.1	5028.3	5032.8	5028.3	5019.1	5012.1	4996.0	4977.5	4959.1	4945.3
12.5°	5035.2	5042.1	5053.6	5051.3	5053.6	5042.1	5035.2	5012.1	4991.4	4966.1	4945.3
15°	5019.1	5028.3	5039.7	5044.4	5039.7	5028.3	5019.1	4996.0	4977.5	4949.9	4929.2
17.5°	4968.3	4982.2	4989.1	4996.0	4989.1	4982.2	4968.3	4949.9	4924.6	4901.6	4880.8
20°	4899.2	4908.5	4917.7	4920.0	4917.7	4908.5	4899.2	4878.6	4839.4	4834.8	4818.6
22.5°	4800.2	4807.2	4827.8	4820.9	4827.8	4807.2	4800.2	4781.8	4768.0	4742.6	4726.5
25°	4657.4	4664.3	4666.7	4668.9	4666.7	4664.3	4657.4	4641.3	4627.5	4609.0	4599.8
27.5°	4411.0	4411.0	4415.5	4417.9	4415.5	4411.0	4411.0	4399.4	4390.2	4381.0	4371.8
30°	4037.8	4037.8	4037.8	4049.4	4037.8	4037.8	4037.8	4035.5	4035.5	4037.8	4037.8
32.5°	3607.1	3602.4	3597.9	3602.4	3597.9	3602.4	3607.1	3609.4	3607.1	3614.0	3625.5
35°	3118.7	3116.4	3123.4	3114.2	3123.4	3116.4	3118.7	3118.7	3128.0	3137.2	3139.5
37.5°	2651.1	2646.6	2655.8	2646.6	2655.8	2646.6	2651.1	2648.9	2646.6	2651.1	2644.3
40°	2206.7	2211.2	2211.2	2229.7	2211.2	2211.2	2206.7	2202.0	2185.9	2176.7	2167.5
42.5°	1780.5	1794.3	1789.7	1803.5	1789.7	1794.3	1780.5	1771.3	1752.8	1736.7	1723.0
45°	1377.4	1386.7	1386.7	1391.2	1386.7	1386.7	1377.4	1368.2	1352.1	1338.2	1329.0
47.5°	1057.2	1057.2	1057.2	1059.6	1057.2	1057.2	1057.2	1041.1	1036.5	1027.3	1015.8
50°	803.9	806.2	808.5	810.8	808.5	806.2	803.9	799.2	797.0	792.3	790.0
52.5°	617.3	619.6	615.0	619.6	615.0	619.6	617.3	619.6	612.7	612.7	610.4
55°	467.6	465.3	467.6	469.9	467.6	465.3	467.6	467.6	465.3	465.3	465.3
57.5°	343.2	338.6	338.6	338.6	338.6	338.6	343.2	340.9	347.9	343.2	345.5
60°	255.7	258.0	258.0	260.2	258.0	258.0	255.7	260.2	260.2	262.6	262.6
62.5°	188.9	195.8	191.1	195.8	191.1	195.8	188.9	191.1	191.1	193.5	195.8
65°	122.1	122.1	122.1	124.4	122.1	122.1	122.1	124.4	126.7	124.4	131.3
67.5°	83.0	85.2	89.9	87.5	89.9	85.2	83.0	85.2	85.2	92.2	89.9
70°	66.8	59.9	59.9	66.8	59.9	59.9	66.8	62.2	59.9	64.5	62.2
72.5°	39.2	34.5	39.2	39.2	39.2	34.5	39.2	34.5	36.9	36.9	41.4
75°	20.8	18.4	16.1	23.0	16.1	18.4	20.8	20.8	20.8	20.8	23.0
77.5°	13.8	11.5	16.1	16.1	16.1	11.5	13.8	11.5	13.8	11.5	13.8
80°	6.9	9.2	6.9	11.5	6.9	9.2	6.9	11.5	6.9	9.2	9.2
82.5°	2.3	4.6	4.6	4.6	4.6	4.6	2.3	2.3	4.6	4.6	2.3
85°	0.0	4.6	2.3	2.3	2.3	4.6	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.0	0.0	2.3	0.0	0.0	2.3	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: P248853

CATALOG NUMBER: LD8B120D010 ER8B1209727 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3
2.5°	4765.6	4758.7	4761.1	4747.2	4747.2	4742.6	4745.0	4733.4	4728.9	4724.2	4731.1
5°	4834.8	4823.3	4814.0	4793.3	4781.8	4768.0	4761.1	4742.6	4726.5	4712.6	4710.4
7.5°	4890.0	4864.7	4848.6	4820.9	4800.2	4784.1	4761.1	4735.7	4715.0	4696.5	4682.8
10°	4913.1	4887.8	4862.4	4827.8	4804.8	4774.8	4751.8	4719.6	4692.0	4666.7	4650.4
12.5°	4915.3	4883.1	4860.1	4820.9	4791.0	4758.7	4733.4	4696.5	4664.3	4639.0	4613.7
15°	4894.7	4864.7	4837.0	4795.6	4765.6	4735.7	4705.8	4666.7	4636.7	4606.7	4588.3
17.5°	4848.6	4820.9	4788.7	4749.5	4721.9	4694.3	4662.0	4629.8	4595.2	4562.9	4539.9
20°	4788.7	4758.7	4731.1	4692.0	4668.9	4639.0	4609.0	4574.5	4546.8	4514.6	4489.3
22.5°	4698.9	4671.2	4645.9	4622.9	4586.0	4562.9	4542.3	4503.1	4475.4	4445.5	4417.9
25°	4569.9	4542.3	4521.5	4493.8	4477.7	4452.4	4431.6	4397.1	4371.8	4344.1	4321.1
27.5°	4358.0	4341.8	4330.3	4314.2	4300.4	4288.8	4277.4	4249.7	4231.3	4206.0	4182.9
30°	4040.1	4037.8	4030.9	4024.0	4033.2	4033.2	4033.2	4028.6	4012.5	3994.0	3977.9
32.5°	3632.4	3637.0	3646.2	3653.2	3671.6	3692.3	3710.7	3719.9	3719.9	3708.4	3701.5
35°	3146.4	3153.3	3167.2	3185.6	3208.6	3233.9	3275.3	3284.6	3291.5	3291.5	3282.3
37.5°	2641.9	2639.7	2653.5	2669.6	2683.5	2701.9	2731.8	2738.7	2750.2	2745.7	2736.4
40°	2151.3	2139.8	2135.2	2139.8	2155.9	2149.0	2155.9	2151.3	2151.3	2135.2	2135.2
42.5°	1697.5	1683.8	1674.5	1667.7	1667.7	1651.5	1640.0	1628.5	1621.6	1610.0	1607.8
45°	1308.4	1292.1	1280.7	1276.0	1269.2	1248.4	1234.6	1220.8	1204.6	1200.1	1202.4
47.5°	1015.8	999.7	995.0	983.5	972.0	960.5	951.3	935.2	932.8	923.6	932.8
50°	783.1	778.6	771.6	767.0	760.1	750.9	741.7	732.5	727.8	727.8	730.1
52.5°	608.1	610.4	603.5	596.5	592.0	592.0	580.4	578.1	578.1	568.9	578.1
55°	465.3	462.9	465.3	460.7	460.7	453.8	453.8	446.8	446.8	439.9	444.6
57.5°	340.9	345.5	340.9	343.2	347.9	340.9	338.6	331.6	336.3	331.6	334.0
60°	264.9	264.9	264.9	262.6	262.6	260.2	260.2	258.0	258.0	253.3	258.0
62.5°	195.8	198.1	198.1	198.1	200.4	198.1	195.8	198.1	195.8	195.8	198.1
65°	129.0	131.3	131.3	129.0	133.6	129.0	131.3	133.6	135.9	133.6	135.9
67.5°	87.5	87.5	89.9	92.2	89.9	92.2	94.4	92.2	94.4	99.1	94.4
70°	64.5	66.8	66.8	64.5	62.2	64.5	62.2	69.1	69.1	69.1	73.7
72.5°	41.4	41.4	39.2	39.2	39.2	39.2	39.2	46.1	41.4	39.2	43.8
75°	23.0	25.3	25.3	18.4	20.8	25.3	18.4	20.8	27.7	23.0	27.7
77.5°	13.8	13.8	13.8	13.8	13.8	13.8	18.4	16.1	16.1	16.1	18.4
80°	11.5	9.2	9.2	6.9	9.2	9.2	9.2	13.8	11.5	11.5	13.8
82.5°	4.6	4.6	2.3	0.0	4.6	4.6	4.6	4.6	4.6	4.6	9.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	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: P248853

CATALOG NUMBER: LD8B120D010 ER8B1209727 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3
2.5°	4712.6	4712.6	4710.4	4705.8	4696.5	4696.5	4694.3	4687.3	4682.8	4680.4	4680.4
5°	4689.6	4680.4	4671.2	4645.9	4645.9	4641.3	4627.5	4618.2	4613.7	4602.1	4597.5
7.5°	4668.9	4641.3	4625.1	4609.0	4588.3	4579.1	4562.9	4556.0	4539.9	4528.4	4521.5
10°	4618.2	4599.8	4579.1	4553.7	4537.6	4519.2	4500.7	4487.0	4466.2	4454.7	4445.5
12.5°	4583.7	4556.0	4537.6	4509.9	4482.4	4466.2	4440.9	4424.8	4404.0	4381.0	4367.2
15°	4551.5	4521.5	4496.2	4466.2	4436.3	4417.9	4387.9	4369.5	4339.6	4316.5	4300.4
17.5°	4503.1	4477.7	4450.1	4413.2	4385.6	4362.6	4330.3	4307.3	4279.7	4249.7	4233.6
20°	4452.4	4422.4	4394.8	4358.0	4330.3	4302.7	4270.5	4245.1	4212.8	4185.2	4166.8
22.5°	4385.6	4351.0	4328.0	4291.1	4258.9	4229.0	4199.1	4169.1	4139.1	4116.1	4095.3
25°	4288.8	4252.0	4226.7	4196.7	4166.8	4143.8	4106.9	4088.5	4058.6	4037.8	4017.0
27.5°	4150.6	4123.0	4100.0	4070.0	4044.7	4026.3	3998.6	3980.2	3954.8	3936.4	3920.3
30°	3948.0	3925.0	3904.2	3874.3	3855.9	3839.7	3814.3	3798.2	3779.8	3759.1	3754.5
32.5°	3676.2	3657.7	3637.0	3616.3	3602.4	3593.2	3572.5	3563.3	3544.9	3533.3	3521.8
35°	3266.2	3250.0	3238.6	3229.4	3224.7	3227.0	3222.4	3231.6	3236.2	3233.9	3236.2
37.5°	2729.5	2720.2	2724.9	2731.8	2754.8	2784.8	2812.4	2853.8	2881.5	2909.2	2934.5
40°	2130.6	2137.6	2155.9	2197.4	2257.3	2324.1	2386.3	2464.6	2543.0	2598.2	2648.9
42.5°	1607.8	1628.5	1674.5	1734.4	1824.3	1923.3	2020.1	2135.2	2229.7	2321.8	2386.3
45°	1209.3	1236.9	1296.8	1379.7	1478.7	1593.9	1716.0	1845.0	1957.9	2052.3	2123.7
47.5°	942.1	967.4	1027.3	1114.9	1236.9	1356.7	1483.4	1617.0	1734.4	1826.6	1888.8
50°	744.0	776.2	829.2	921.3	1043.5	1170.1	1301.4	1432.7	1543.3	1621.6	1676.9
52.5°	585.1	615.0	665.7	762.4	886.8	1013.5	1135.5	1264.6	1361.3	1437.3	1474.2
55°	453.8	481.4	534.3	615.0	732.5	856.9	978.9	1089.5	1179.3	1234.6	1269.2
57.5°	345.5	366.2	403.1	483.7	589.7	704.8	808.5	919.1	988.2	1027.3	1050.3
60°	262.6	278.7	317.9	380.1	476.8	575.9	663.4	746.3	801.6	833.8	856.9
62.5°	198.1	216.5	244.1	297.1	370.8	451.5	525.1	587.3	633.4	654.2	670.3
65°	135.9	149.7	170.5	211.9	274.1	331.6	389.3	435.4	465.3	488.4	497.6
67.5°	101.4	110.5	122.1	154.3	198.1	244.1	283.3	315.5	347.9	357.0	373.2
70°	76.0	83.0	94.4	117.5	142.8	175.0	207.3	225.7	248.8	264.9	269.5
72.5°	48.4	50.6	62.2	76.0	96.7	117.5	138.2	154.3	168.2	177.4	181.9
75°	27.7	41.4	41.4	55.3	69.1	78.3	92.2	103.6	110.5	117.5	117.5
77.5°	18.4	25.3	27.7	34.5	41.4	53.0	64.5	71.4	78.3	80.6	80.6
80°	16.1	18.4	18.4	25.3	30.0	39.2	46.1	48.4	53.0	55.3	59.9
82.5°	6.9	9.2	11.5	18.4	20.8	20.8	27.7	30.0	34.5	36.9	36.9
85°	2.3	4.6	4.6	6.9	11.5	13.8	16.1	18.4	20.8	20.8	23.0
87.5°	2.3	2.3	0.0	2.3	4.6	4.6	9.2	9.2	9.2	13.8	13.8
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: P248853

CATALOG NUMBER: LD8B120D010 ER8B1209727 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3	4717.3
2.5°	4675.9	4678.1	4668.9	4666.7	4662.0	4664.3	4668.9
5°	4590.6	4592.9	4583.7	4574.5	4574.5	4572.1	4574.5
7.5°	4509.9	4512.3	4498.5	4493.8	4484.6	4487.0	4487.0
10°	4429.4	4429.4	4408.7	4406.3	4399.4	4397.1	4397.1
12.5°	4351.0	4344.1	4328.0	4318.8	4323.5	4309.6	4309.6
15°	4281.9	4270.5	4249.7	4242.8	4231.3	4226.7	4226.7
17.5°	4210.5	4201.3	4182.9	4169.1	4155.3	4153.0	4155.3
20°	4141.4	4132.2	4109.2	4100.0	4088.5	4088.5	4083.9
22.5°	4072.3	4063.1	4042.4	4035.5	4019.4	4019.4	4021.7
25°	4000.9	3994.0	3971.0	3966.4	3964.1	3954.8	3959.5
27.5°	3904.2	3899.6	3881.2	3874.3	3865.1	3862.8	3867.3
30°	3726.8	3719.9	3706.2	3699.2	3683.1	3685.4	3689.9
32.5°	3505.7	3496.5	3478.0	3471.1	3457.4	3452.7	3455.0
35°	3229.4	3222.4	3206.3	3206.3	3192.5	3187.8	3192.5
37.5°	2948.4	2955.2	2948.4	2955.2	2948.4	2946.0	2948.4
40°	2683.5	2708.8	2713.3	2738.7	2729.5	2743.3	2741.0
42.5°	2430.0	2471.5	2487.7	2508.3	2503.8	2513.0	2519.9
45°	2174.3	2208.9	2225.1	2238.9	2241.2	2245.8	2248.1
47.5°	1932.5	1960.2	1962.4	1978.6	1976.3	1976.3	1983.2
50°	1706.8	1725.2	1729.8	1741.3	1732.2	1727.5	1729.8
52.5°	1497.2	1515.6	1511.0	1515.6	1504.1	1499.5	1501.8
55°	1282.9	1292.1	1292.1	1292.1	1278.4	1278.4	1278.4
57.5°	1064.1	1066.5	1061.9	1064.1	1061.9	1048.0	1045.7
60°	863.8	863.8	861.4	863.8	856.9	850.0	850.0
62.5°	674.8	679.5	688.7	679.5	674.8	679.5	672.6
65°	504.5	513.7	511.3	515.9	513.7	513.7	509.0
67.5°	380.1	382.4	384.6	387.0	387.0	387.0	387.0
70°	278.7	285.7	283.3	283.3	283.3	283.3	297.1
72.5°	186.6	195.8	193.5	198.1	198.1	202.7	198.1
75°	126.7	135.9	131.3	138.2	135.9	131.3	142.8
77.5°	85.2	89.9	92.2	94.4	92.2	89.9	92.2
80°	59.9	64.5	62.2	64.5	64.5	64.5	66.8
82.5°	36.9	43.8	41.4	43.8	41.4	43.8	43.8
85°	25.3	27.7	23.0	27.7	25.3	25.3	30.0
87.5°	16.1	13.8	13.8	16.1	13.8	16.1	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)