

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: P248861

Luminaire Tested: **LD8B100D010 ER8B100930 8LBSW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248861  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B100D010 ER8B100930 8LBSW0GPH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8313.3 lumens  
Efficiency: N/A  
Efficacy: 78.2 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

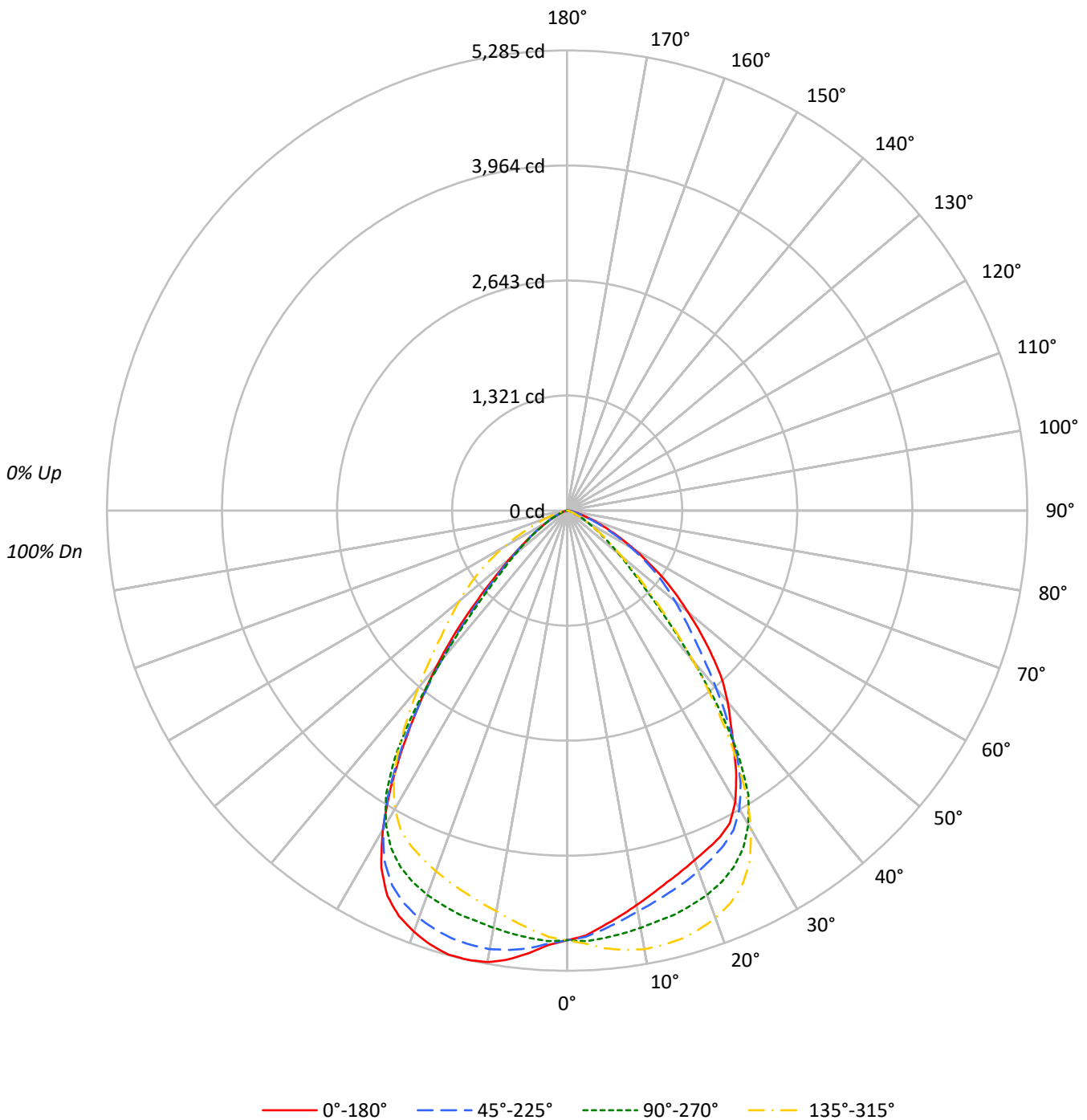
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	469.8	5.7
10°-20°	1360.3	16.4
20°-30°	2059.8	24.8
30°-40°	2064.4	24.8
40°-50°	1296.4	15.6
50°-60°	690.8	8.3
60°-70°	284.1	3.4
70°-80°	75.1	0.9
80°-90°	12.7	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°	3889.9	46.8
0°-40°	5954.3	71.6
0°-60°	7941.5	95.5
0°-90°	8313.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8313.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4935	4935	4935	4935	4935	
5°	4786	4928	5104	4928	4786	451
15°	4422	4800	5278	4800	4422	1251
25°	4142	4521	4885	4521	4142	1900
35°	3340	3434	3258	3434	3340	2093
45°	2352	1258	1456	1258	2352	1809
55°	1338	465	492	465	1338	1192
65°	533	142	130	142	533	552
75°	149	29	24	29	149	169
85°	31	0	2	0	31	34
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°	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3
2.5°	4884.8	4879.9	4877.6	4882.4	4884.8	4894.4	4892.0	4896.8	4896.8	4899.2	4904.0
5°	4786.0	4783.5	4786.0	4786.0	4795.6	4805.3	4802.8	4810.1	4814.8	4826.9	4831.7
7.5°	4694.4	4694.4	4691.9	4701.6	4706.4	4720.9	4718.4	4730.5	4737.8	4749.8	4766.6
10°	4600.4	4600.4	4602.8	4610.0	4612.5	4634.1	4634.1	4651.0	4660.6	4672.7	4694.4
12.5°	4508.9	4508.9	4523.3	4518.4	4528.1	4545.0	4552.2	4569.1	4583.5	4607.6	4629.4
15°	4422.0	4422.0	4426.9	4438.9	4446.1	4467.9	4479.9	4499.2	4516.1	4540.2	4571.6
17.5°	4347.4	4345.0	4347.4	4361.8	4376.3	4395.6	4405.2	4429.3	4446.1	4477.5	4506.4
20°	4272.7	4277.5	4277.5	4289.5	4299.1	4323.2	4332.9	4359.5	4378.7	4407.5	4441.4
22.5°	4207.6	4205.2	4205.2	4222.1	4229.3	4250.9	4260.6	4284.7	4306.4	4330.5	4361.8
25°	4142.5	4137.7	4147.4	4149.7	4154.5	4178.6	4185.9	4202.7	4224.5	4246.2	4277.5
27.5°	4046.1	4041.3	4043.8	4053.3	4060.6	4079.9	4084.7	4101.5	4118.4	4137.7	4164.3
30°	3860.5	3855.8	3853.4	3870.3	3877.5	3891.9	3899.1	3928.1	3932.8	3954.6	3973.8
32.5°	3614.8	3612.3	3617.2	3631.6	3638.9	3658.2	3667.8	3684.6	3696.6	3708.7	3728.0
35°	3340.0	3335.2	3340.0	3354.6	3354.6	3371.4	3378.7	3385.8	3383.4	3385.8	3381.0
37.5°	3084.7	3082.2	3084.7	3091.8	3084.7	3091.8	3084.7	3070.2	3043.7	3014.7	2985.8
40°	2867.7	2870.1	2855.7	2865.4	2838.7	2834.0	2807.5	2771.3	2718.3	2660.5	2578.5
42.5°	2636.4	2629.2	2619.6	2624.3	2602.6	2585.7	2542.4	2496.7	2429.1	2332.8	2233.9
45°	2352.0	2349.6	2344.8	2342.4	2327.9	2311.1	2274.8	2221.9	2147.2	2048.4	1930.2
47.5°	2074.9	2067.7	2067.7	2070.0	2053.1	2050.8	2021.8	1976.1	1911.0	1814.6	1691.7
50°	1809.7	1807.4	1812.2	1821.8	1809.7	1805.0	1785.8	1754.4	1696.5	1614.7	1498.9
52.5°	1571.2	1568.8	1573.7	1585.7	1580.8	1585.7	1566.5	1542.3	1503.7	1424.2	1323.0
55°	1337.5	1337.5	1337.5	1351.9	1351.9	1351.9	1342.3	1327.8	1291.6	1233.9	1139.9
57.5°	1094.1	1096.5	1110.9	1113.4	1110.9	1115.8	1113.4	1098.8	1074.8	1033.9	961.6
60°	889.3	889.3	896.5	903.8	901.3	903.8	903.8	896.5	872.4	838.6	780.9
62.5°	703.7	710.9	706.0	710.9	720.6	710.9	706.0	701.3	684.4	662.7	614.5
65°	532.6	537.4	537.4	539.8	534.9	537.4	527.8	520.6	511.0	486.9	455.5
67.5°	404.9	404.9	404.9	404.9	402.4	400.1	397.6	390.4	373.5	364.0	330.1
70°	310.9	296.4	296.4	296.4	296.4	298.9	291.6	282.0	277.1	260.3	236.2
72.5°	207.2	212.1	207.2	207.2	202.5	204.8	195.2	190.3	185.6	176.0	161.5
75°	149.4	137.4	142.1	144.6	137.4	142.1	132.5	122.9	122.9	115.7	108.4
77.5°	96.4	94.1	96.4	98.8	96.4	94.1	89.1	84.3	84.3	81.9	74.7
80°	70.0	67.5	67.5	67.5	65.0	67.5	62.7	62.7	57.8	55.5	50.6
82.5°	45.8	45.8	43.4	45.8	43.4	45.8	38.6	38.6	38.6	36.1	31.4
85°	31.4	26.5	26.5	28.9	24.1	28.9	26.5	24.1	21.7	21.7	19.3
87.5°	14.5	16.8	14.5	16.8	14.5	14.5	16.8	14.5	14.5	9.6	9.6
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3
2.5°	4911.2	4913.7	4913.7	4923.3	4928.1	4930.5	4930.5	4949.9	4942.6	4947.4	4952.2
5°	4841.4	4855.8	4860.7	4860.7	4887.1	4896.8	4906.4	4928.1	4930.5	4945.0	4961.9
7.5°	4773.9	4790.7	4800.5	4822.1	4838.9	4855.8	4884.8	4899.2	4913.7	4933.0	4954.6
10°	4708.8	4728.2	4747.4	4764.2	4790.7	4812.5	4831.7	4865.5	4882.4	4908.9	4937.8
12.5°	4646.2	4672.7	4689.6	4718.4	4747.4	4766.6	4795.6	4826.9	4853.5	4879.9	4913.7
15°	4590.7	4622.1	4641.4	4672.7	4704.1	4730.5	4761.9	4800.5	4819.7	4851.0	4882.4
17.5°	4530.4	4564.3	4588.4	4617.3	4655.8	4684.7	4711.3	4749.8	4773.9	4807.6	4843.8
20°	4467.9	4501.6	4530.4	4559.4	4598.0	4626.9	4658.2	4696.8	4723.3	4757.0	4786.0
22.5°	4393.2	4424.5	4455.8	4489.5	4528.1	4552.2	4588.4	4622.1	4651.0	4682.3	4711.3
25°	4296.8	4335.4	4359.5	4390.7	4422.0	4448.6	4487.1	4520.9	4545.0	4573.9	4600.4
27.5°	4183.5	4212.5	4231.7	4258.2	4289.5	4313.6	4342.5	4376.3	4400.4	4426.9	4446.1
30°	3990.6	4017.2	4034.1	4053.3	4084.7	4106.4	4130.5	4161.8	4178.6	4197.9	4214.8
32.5°	3737.6	3759.4	3769.0	3783.5	3805.1	3826.8	3846.2	3872.6	3879.9	3891.9	3891.9
35°	3371.4	3376.2	3373.8	3378.7	3388.2	3400.3	3417.1	3434.0	3443.6	3443.6	3436.5
37.5°	2942.4	2913.6	2882.2	2858.1	2850.8	2846.0	2855.7	2862.8	2872.6	2877.4	2865.4
40°	2496.7	2431.6	2361.6	2298.9	2255.6	2236.4	2229.1	2233.9	2233.9	2250.7	2250.7
42.5°	2113.4	2012.2	1908.6	1814.6	1751.9	1703.8	1682.1	1682.1	1684.4	1696.5	1703.8
45°	1795.4	1667.6	1547.1	1443.5	1356.7	1294.1	1265.2	1258.0	1255.5	1260.3	1277.2
47.5°	1551.9	1419.4	1294.1	1166.4	1074.8	1012.2	985.7	975.9	966.3	975.9	978.4
50°	1361.6	1224.2	1091.7	963.9	867.5	812.1	778.3	763.8	761.5	761.5	766.3
52.5°	1188.0	1060.4	927.9	797.7	696.5	643.5	612.1	604.9	595.3	604.9	604.9
55°	1024.1	896.5	766.3	643.5	559.0	503.7	474.7	465.1	460.3	467.5	467.5
57.5°	845.9	737.4	617.0	506.0	421.7	383.2	361.4	349.4	346.9	351.9	346.9
60°	694.0	602.5	498.8	397.6	332.6	291.6	274.8	269.9	265.0	269.9	269.9
62.5°	549.4	472.4	388.0	310.9	255.4	226.6	207.2	207.2	204.8	204.8	207.2
65°	407.3	346.9	286.8	221.7	178.4	156.6	142.1	142.1	139.8	142.1	139.8
67.5°	296.4	255.4	207.2	161.5	127.8	115.7	106.0	98.8	103.7	98.8	96.4
70°	216.9	183.1	149.4	122.9	98.8	86.8	79.6	77.1	72.3	72.3	72.3
72.5°	144.6	122.9	101.2	79.6	65.0	53.0	50.6	45.8	40.9	43.4	48.2
75°	96.4	81.9	72.3	57.8	43.4	43.4	28.9	28.9	24.1	28.9	21.7
77.5°	67.5	55.5	43.4	36.1	28.9	26.5	19.3	19.3	16.8	16.8	16.8
80°	48.2	40.9	31.4	26.5	19.3	19.3	16.8	14.5	12.0	12.0	14.5
82.5°	28.9	21.7	21.7	19.3	12.0	9.6	7.3	9.6	4.8	4.8	4.8
85°	16.8	14.5	12.0	7.3	4.8	4.8	2.4	0.0	2.4	2.4	0.0
87.5°	9.6	4.8	4.8	2.4	0.0	2.4	2.4	0.0	0.0	0.0	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3
2.5°	4964.3	4961.9	4966.7	4966.7	4981.2	4978.7	4986.0	4986.0	4981.2	4983.5	4993.2
5°	4981.2	4988.4	5002.8	5014.9	5036.5	5046.3	5058.3	5070.4	5072.7	5080.0	5087.2
7.5°	4981.2	5005.3	5022.2	5043.8	5072.7	5089.6	5116.1	5137.8	5147.4	5159.4	5174.0
10°	4971.5	4995.6	5026.9	5051.0	5087.2	5113.7	5140.2	5174.0	5188.4	5207.6	5227.0
12.5°	4952.2	4978.7	5012.4	5043.8	5084.7	5108.8	5142.6	5174.0	5195.6	5222.2	5243.8
15°	4923.3	4954.6	4986.0	5017.3	5060.6	5089.6	5121.0	5157.0	5178.8	5207.6	5227.0
17.5°	4877.6	4911.2	4940.2	4969.1	5010.1	5043.8	5072.7	5106.5	5128.2	5152.3	5178.8
20°	4822.1	4853.5	4884.8	4908.9	4949.9	4978.7	5010.1	5041.4	5058.3	5063.1	5104.1
22.5°	4752.3	4773.9	4798.0	4836.6	4860.7	4887.1	4916.1	4945.0	4961.9	4988.4	5002.8
25°	4636.5	4658.2	4684.7	4701.6	4730.5	4752.3	4781.2	4812.5	4822.1	4841.4	4855.8
27.5°	4475.1	4487.1	4499.2	4513.6	4530.4	4542.5	4559.4	4573.9	4583.5	4593.2	4602.8
30°	4219.6	4219.6	4219.6	4210.0	4217.2	4224.5	4226.8	4224.5	4224.5	4222.1	4222.1
32.5°	3882.2	3863.0	3841.3	3822.0	3814.8	3805.1	3800.3	3793.1	3781.0	3773.8	3776.2
35°	3426.8	3383.4	3356.9	3332.8	3313.6	3299.1	3291.8	3284.6	3282.3	3272.6	3262.9
37.5°	2858.1	2826.7	2807.5	2793.1	2776.2	2761.7	2764.0	2766.5	2773.7	2769.0	2771.3
40°	2255.6	2248.4	2255.6	2238.7	2233.9	2238.7	2250.7	2267.7	2277.3	2287.0	2303.8
42.5°	1715.8	1727.8	1744.7	1744.7	1751.9	1761.7	1776.0	1802.6	1817.0	1833.8	1853.2
45°	1291.6	1306.2	1327.8	1335.0	1339.9	1351.9	1368.9	1390.5	1400.1	1414.6	1431.4
47.5°	995.3	1004.9	1016.9	1029.0	1041.0	1045.9	1062.7	1062.7	1074.8	1084.5	1089.3
50°	776.0	785.6	795.2	802.4	807.3	814.5	819.3	826.5	829.0	833.8	836.2
52.5°	607.2	619.4	619.4	624.1	631.3	638.6	636.2	638.6	641.0	641.0	648.2
55°	474.7	474.7	481.9	481.9	486.9	484.4	486.9	486.9	486.9	486.9	489.2
57.5°	354.2	356.7	364.0	359.1	356.7	361.4	356.7	361.4	359.1	364.0	356.7
60°	272.3	272.3	274.8	274.8	277.1	277.1	277.1	274.8	274.8	272.3	272.3
62.5°	204.8	207.2	209.7	207.2	207.2	207.2	204.8	204.8	202.5	200.0	200.0
65°	137.4	135.0	139.8	135.0	137.4	137.4	135.0	137.4	130.1	132.5	130.1
67.5°	98.8	96.4	94.1	96.4	94.1	91.6	91.6	94.1	96.4	89.1	89.1
70°	65.0	67.5	65.0	67.5	70.0	70.0	67.5	65.0	67.5	62.7	65.0
72.5°	40.9	40.9	40.9	40.9	40.9	43.4	43.4	43.4	38.6	38.6	36.1
75°	19.3	26.5	21.7	19.3	26.5	26.5	24.1	24.1	21.7	21.7	21.7
77.5°	19.3	14.5	14.5	14.5	14.5	14.5	14.5	14.5	12.0	14.5	12.0
80°	9.6	9.6	9.6	7.3	9.6	9.6	12.0	9.6	9.6	7.3	12.0
82.5°	4.8	4.8	4.8	0.0	2.4	4.8	4.8	2.4	4.8	4.8	2.4
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: P248861

CATALOG NUMBER: LD8B100D010 ER8B100930 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3
2.5°	4990.8	4988.4	4990.8	4993.2	4990.8	4988.4	4990.8	4993.2	4983.5	4981.2	4986.0
5°	5096.9	5096.9	5101.6	5104.1	5101.6	5096.9	5096.9	5087.2	5080.0	5072.7	5070.4
7.5°	5188.4	5193.3	5198.1	5200.4	5198.1	5193.3	5188.4	5174.0	5159.4	5147.4	5137.8
10°	5243.8	5251.1	5260.7	5265.4	5260.7	5251.1	5243.8	5227.0	5207.6	5188.4	5174.0
12.5°	5267.9	5275.2	5287.2	5284.8	5287.2	5275.2	5267.9	5243.8	5222.2	5195.6	5174.0
15°	5251.1	5260.7	5272.7	5277.6	5272.7	5260.7	5251.1	5227.0	5207.6	5178.8	5157.0
17.5°	5198.1	5212.5	5219.7	5227.0	5219.7	5212.5	5198.1	5178.8	5152.3	5128.2	5106.5
20°	5125.7	5135.4	5145.1	5147.4	5145.1	5135.4	5125.7	5104.1	5063.1	5058.3	5041.4
22.5°	5022.2	5029.4	5051.0	5043.8	5051.0	5029.4	5022.2	5002.8	4988.4	4961.9	4945.0
25°	4872.7	4879.9	4882.4	4884.8	4882.4	4879.9	4872.7	4855.8	4841.4	4822.1	4812.5
27.5°	4614.9	4614.9	4619.6	4622.1	4619.6	4614.9	4614.9	4602.8	4593.2	4583.5	4573.9
30°	4224.5	4224.5	4224.5	4236.6	4224.5	4224.5	4224.5	4222.1	4222.1	4224.5	4224.5
32.5°	3773.8	3769.0	3764.2	3769.0	3764.2	3769.0	3773.8	3776.2	3773.8	3781.0	3793.1
35°	3262.9	3260.5	3267.7	3258.2	3267.7	3260.5	3262.9	3262.9	3272.6	3282.3	3284.6
37.5°	2773.7	2769.0	2778.5	2769.0	2778.5	2769.0	2773.7	2771.3	2769.0	2773.7	2766.5
40°	2308.7	2313.4	2313.4	2332.8	2313.4	2313.4	2308.7	2303.8	2287.0	2277.3	2267.7
42.5°	1862.8	1877.3	1872.4	1886.9	1872.4	1877.3	1862.8	1853.2	1833.8	1817.0	1802.6
45°	1441.0	1450.8	1450.8	1455.5	1450.8	1450.8	1441.0	1431.4	1414.6	1400.1	1390.5
47.5°	1106.1	1106.1	1106.1	1108.6	1106.1	1106.1	1106.1	1089.3	1084.5	1074.8	1062.7
50°	841.1	843.4	845.9	848.3	845.9	843.4	841.1	836.2	833.8	829.0	826.5
52.5°	645.8	648.2	643.5	648.2	643.5	648.2	645.8	648.2	641.0	641.0	638.6
55°	489.2	486.9	489.2	491.6	489.2	486.9	489.2	489.2	486.9	486.9	486.9
57.5°	359.1	354.2	354.2	354.2	354.2	354.2	359.1	356.7	364.0	359.1	361.4
60°	267.5	269.9	269.9	272.3	269.9	269.9	267.5	272.3	272.3	274.8	274.8
62.5°	197.6	204.8	200.0	204.8	200.0	204.8	197.6	200.0	200.0	202.5	204.8
65°	127.8	127.8	127.8	130.1	127.8	127.8	127.8	130.1	132.5	130.1	137.4
67.5°	86.8	89.1	94.1	91.6	94.1	89.1	86.8	89.1	89.1	96.4	94.1
70°	70.0	62.7	62.7	70.0	62.7	62.7	70.0	65.0	62.7	67.5	65.0
72.5°	40.9	36.1	40.9	40.9	40.9	36.1	40.9	36.1	38.6	38.6	43.4
75°	21.7	19.3	16.8	24.1	16.8	19.3	21.7	21.7	21.7	21.7	24.1
77.5°	14.5	12.0	16.8	16.8	16.8	12.0	14.5	12.0	14.5	12.0	14.5
80°	7.3	9.6	7.3	12.0	7.3	9.6	7.3	12.0	7.3	9.6	9.6
82.5°	2.4	4.8	4.8	4.8	4.8	4.8	2.4	2.4	4.8	4.8	2.4
85°	0.0	4.8	2.4	2.4	2.4	4.8	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	0.0	0.0	2.4	0.0	0.0	2.4	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: P248861

CATALOG NUMBER: LD8B100D010 ER8B100930 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3
2.5°	4986.0	4978.7	4981.2	4966.7	4966.7	4961.9	4964.3	4952.2	4947.4	4942.6	4949.9
5°	5058.3	5046.3	5036.5	5014.9	5002.8	4988.4	4981.2	4961.9	4945.0	4930.5	4928.1
7.5°	5116.1	5089.6	5072.7	5043.8	5022.2	5005.3	4981.2	4954.6	4933.0	4913.7	4899.2
10°	5140.2	5113.7	5087.2	5051.0	5026.9	4995.6	4971.5	4937.8	4908.9	4882.4	4865.5
12.5°	5142.6	5108.8	5084.7	5043.8	5012.4	4978.7	4952.2	4913.7	4879.9	4853.5	4826.9
15°	5121.0	5089.6	5060.6	5017.3	4986.0	4954.6	4923.3	4882.4	4851.0	4819.7	4800.5
17.5°	5072.7	5043.8	5010.1	4969.1	4940.2	4911.2	4877.6	4843.8	4807.6	4773.9	4749.8
20°	5010.1	4978.7	4949.9	4908.9	4884.8	4853.5	4822.1	4786.0	4757.0	4723.3	4696.8
22.5°	4916.1	4887.1	4860.7	4836.6	4798.0	4773.9	4752.3	4711.3	4682.3	4651.0	4622.1
25°	4781.2	4752.3	4730.5	4701.6	4684.7	4658.2	4636.5	4600.4	4573.9	4545.0	4520.9
27.5°	4559.4	4542.5	4530.4	4513.6	4499.2	4487.1	4475.1	4446.1	4426.9	4400.4	4376.3
30°	4226.8	4224.5	4217.2	4210.0	4219.6	4219.6	4219.6	4214.8	4197.9	4178.6	4161.8
32.5°	3800.3	3805.1	3814.8	3822.0	3841.3	3863.0	3882.2	3891.9	3891.9	3879.9	3872.6
35°	3291.8	3299.1	3313.6	3332.8	3356.9	3383.4	3426.8	3436.5	3443.6	3443.6	3434.0
37.5°	2764.0	2761.7	2776.2	2793.1	2807.5	2826.7	2858.1	2865.4	2877.4	2872.6	2862.8
40°	2250.7	2238.7	2233.9	2238.7	2255.6	2248.4	2255.6	2250.7	2250.7	2233.9	2233.9
42.5°	1776.0	1761.7	1751.9	1744.7	1744.7	1727.8	1715.8	1703.8	1696.5	1684.4	1682.1
45°	1368.9	1351.9	1339.9	1335.0	1327.8	1306.2	1291.6	1277.2	1260.3	1255.5	1258.0
47.5°	1062.7	1045.9	1041.0	1029.0	1016.9	1004.9	995.3	978.4	975.9	966.3	975.9
50°	819.3	814.5	807.3	802.4	795.2	785.6	776.0	766.3	761.5	761.5	763.8
52.5°	636.2	638.6	631.3	624.1	619.4	619.4	607.2	604.9	604.9	595.3	604.9
55°	486.9	484.4	486.9	481.9	481.9	474.7	474.7	467.5	467.5	460.3	465.1
57.5°	356.7	361.4	356.7	359.1	364.0	356.7	354.2	346.9	351.9	346.9	349.4
60°	277.1	277.1	277.1	274.8	274.8	272.3	272.3	269.9	269.9	265.0	269.9
62.5°	204.8	207.2	207.2	207.2	209.7	207.2	204.8	207.2	204.8	204.8	207.2
65°	135.0	137.4	137.4	135.0	139.8	135.0	137.4	139.8	142.1	139.8	142.1
67.5°	91.6	91.6	94.1	96.4	94.1	96.4	98.8	96.4	98.8	103.7	98.8
70°	67.5	70.0	70.0	67.5	65.0	67.5	65.0	72.3	72.3	72.3	77.1
72.5°	43.4	43.4	40.9	40.9	40.9	40.9	40.9	48.2	43.4	40.9	45.8
75°	24.1	26.5	26.5	19.3	21.7	26.5	19.3	21.7	28.9	24.1	28.9
77.5°	14.5	14.5	14.5	14.5	14.5	14.5	19.3	16.8	16.8	16.8	19.3
80°	12.0	9.6	9.6	7.3	9.6	9.6	9.6	14.5	12.0	12.0	14.5
82.5°	4.8	4.8	2.4	0.0	4.8	4.8	4.8	4.8	4.8	4.8	9.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248861

CATALOG NUMBER: LD8B100D010 ER8B100930 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3
2.5°	4930.5	4930.5	4928.1	4923.3	4913.7	4913.7	4911.2	4904.0	4899.2	4896.8	4896.8
5°	4906.4	4896.8	4887.1	4860.7	4860.7	4855.8	4841.4	4831.7	4826.9	4814.8	4810.1
7.5°	4884.8	4855.8	4838.9	4822.1	4800.5	4790.7	4773.9	4766.6	4749.8	4737.8	4730.5
10°	4831.7	4812.5	4790.7	4764.2	4747.4	4728.2	4708.8	4694.4	4672.7	4660.6	4651.0
12.5°	4795.6	4766.6	4747.4	4718.4	4689.6	4672.7	4646.2	4629.4	4607.6	4583.5	4569.1
15°	4761.9	4730.5	4704.1	4672.7	4641.4	4622.1	4590.7	4571.6	4540.2	4516.1	4499.2
17.5°	4711.3	4684.7	4655.8	4617.3	4588.4	4564.3	4530.4	4506.4	4477.5	4446.1	4429.3
20°	4658.2	4626.9	4598.0	4559.4	4530.4	4501.6	4467.9	4441.4	4407.5	4378.7	4359.5
22.5°	4588.4	4552.2	4528.1	4489.5	4455.8	4424.5	4393.2	4361.8	4330.5	4306.4	4284.7
25°	4487.1	4448.6	4422.0	4390.7	4359.5	4335.4	4296.8	4277.5	4246.2	4224.5	4202.7
27.5°	4342.5	4313.6	4289.5	4258.2	4231.7	4212.5	4183.5	4164.3	4137.7	4118.4	4101.5
30°	4130.5	4106.4	4084.7	4053.3	4034.1	4017.2	3990.6	3973.8	3954.6	3932.8	3928.1
32.5°	3846.2	3826.8	3805.1	3783.5	3769.0	3759.4	3737.6	3728.0	3708.7	3696.6	3684.6
35°	3417.1	3400.3	3388.2	3378.7	3373.8	3376.2	3371.4	3381.0	3385.8	3383.4	3385.8
37.5°	2855.7	2846.0	2850.8	2858.1	2882.2	2913.6	2942.4	2985.8	3014.7	3043.7	3070.2
40°	2229.1	2236.4	2255.6	2298.9	2361.6	2431.6	2496.7	2578.5	2660.5	2718.3	2771.3
42.5°	1682.1	1703.8	1751.9	1814.6	1908.6	2012.2	2113.4	2233.9	2332.8	2429.1	2496.7
45°	1265.2	1294.1	1356.7	1443.5	1547.1	1667.6	1795.4	1930.2	2048.4	2147.2	2221.9
47.5°	985.7	1012.2	1074.8	1166.4	1294.1	1419.4	1551.9	1691.7	1814.6	1911.0	1976.1
50°	778.3	812.1	867.5	963.9	1091.7	1224.2	1361.6	1498.9	1614.7	1696.5	1754.4
52.5°	612.1	643.5	696.5	797.7	927.9	1060.4	1188.0	1323.0	1424.2	1503.7	1542.3
55°	474.7	503.7	559.0	643.5	766.3	896.5	1024.1	1139.9	1233.9	1291.6	1327.8
57.5°	361.4	383.2	421.7	506.0	617.0	737.4	845.9	961.6	1033.9	1074.8	1098.8
60°	274.8	291.6	332.6	397.6	498.8	602.5	694.0	780.9	838.6	872.4	896.5
62.5°	207.2	226.6	255.4	310.9	388.0	472.4	549.4	614.5	662.7	684.4	701.3
65°	142.1	156.6	178.4	221.7	286.8	346.9	407.3	455.5	486.9	511.0	520.6
67.5°	106.0	115.7	127.8	161.5	207.2	255.4	296.4	330.1	364.0	373.5	390.4
70°	79.6	86.8	98.8	122.9	149.4	183.1	216.9	236.2	260.3	277.1	282.0
72.5°	50.6	53.0	65.0	79.6	101.2	122.9	144.6	161.5	176.0	185.6	190.3
75°	28.9	43.4	43.4	57.8	72.3	81.9	96.4	108.4	115.7	122.9	122.9
77.5°	19.3	26.5	28.9	36.1	43.4	55.5	67.5	74.7	81.9	84.3	84.3
80°	16.8	19.3	19.3	26.5	31.4	40.9	48.2	50.6	55.5	57.8	62.7
82.5°	7.3	9.6	12.0	19.3	21.7	21.7	28.9	31.4	36.1	38.6	38.6
85°	2.4	4.8	4.8	7.3	12.0	14.5	16.8	19.3	21.7	21.7	24.1
87.5°	2.4	2.4	0.0	2.4	4.8	4.8	9.6	9.6	9.6	14.5	14.5
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: P248861

CATALOG NUMBER: LD8B100D010 ER8B100930 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3	4935.3
2.5°	4892.0	4894.4	4884.8	4882.4	4877.6	4879.9	4884.8
5°	4802.8	4805.3	4795.6	4786.0	4786.0	4783.5	4786.0
7.5°	4718.4	4720.9	4706.4	4701.6	4691.9	4694.4	4694.4
10°	4634.1	4634.1	4612.5	4610.0	4602.8	4600.4	4600.4
12.5°	4552.2	4545.0	4528.1	4518.4	4523.3	4508.9	4508.9
15°	4479.9	4467.9	4446.1	4438.9	4426.9	4422.0	4422.0
17.5°	4405.2	4395.6	4376.3	4361.8	4347.4	4345.0	4347.4
20°	4332.9	4323.2	4299.1	4289.5	4277.5	4277.5	4272.7
22.5°	4260.6	4250.9	4229.3	4222.1	4205.2	4205.2	4207.6
25°	4185.9	4178.6	4154.5	4149.7	4147.4	4137.7	4142.5
27.5°	4084.7	4079.9	4060.6	4053.3	4043.8	4041.3	4046.1
30°	3899.1	3891.9	3877.5	3870.3	3853.4	3855.8	3860.5
32.5°	3667.8	3658.2	3638.9	3631.6	3617.2	3612.3	3614.8
35°	3378.7	3371.4	3354.6	3354.6	3340.0	3335.2	3340.0
37.5°	3084.7	3091.8	3084.7	3091.8	3084.7	3082.2	3084.7
40°	2807.5	2834.0	2838.7	2865.4	2855.7	2870.1	2867.7
42.5°	2542.4	2585.7	2602.6	2624.3	2619.6	2629.2	2636.4
45°	2274.8	2311.1	2327.9	2342.4	2344.8	2349.6	2352.0
47.5°	2021.8	2050.8	2053.1	2070.0	2067.7	2067.7	2074.9
50°	1785.8	1805.0	1809.7	1821.8	1812.2	1807.4	1809.7
52.5°	1566.5	1585.7	1580.8	1585.7	1573.7	1568.8	1571.2
55°	1342.3	1351.9	1351.9	1351.9	1337.5	1337.5	1337.5
57.5°	1113.4	1115.8	1110.9	1113.4	1110.9	1096.5	1094.1
60°	903.8	903.8	901.3	903.8	896.5	889.3	889.3
62.5°	706.0	710.9	720.6	710.9	706.0	710.9	703.7
65°	527.8	537.4	534.9	539.8	537.4	537.4	532.6
67.5°	397.6	400.1	402.4	404.9	404.9	404.9	404.9
70°	291.6	298.9	296.4	296.4	296.4	296.4	310.9
72.5°	195.2	204.8	202.5	207.2	207.2	212.1	207.2
75°	132.5	142.1	137.4	144.6	142.1	137.4	149.4
77.5°	89.1	94.1	96.4	98.8	96.4	94.1	96.4
80°	62.7	67.5	65.0	67.5	67.5	67.5	70.0
82.5°	38.6	45.8	43.4	45.8	43.4	45.8	45.8
85°	26.5	28.9	24.1	28.9	26.5	26.5	31.4
87.5°	16.8	14.5	14.5	16.8	14.5	16.8	14.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)