

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: P248762

Luminaire Tested: **LD8B100D010 ER8B100827 8LBSW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248762  
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 ER8B100827 8LBSW0GPH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9444.0 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

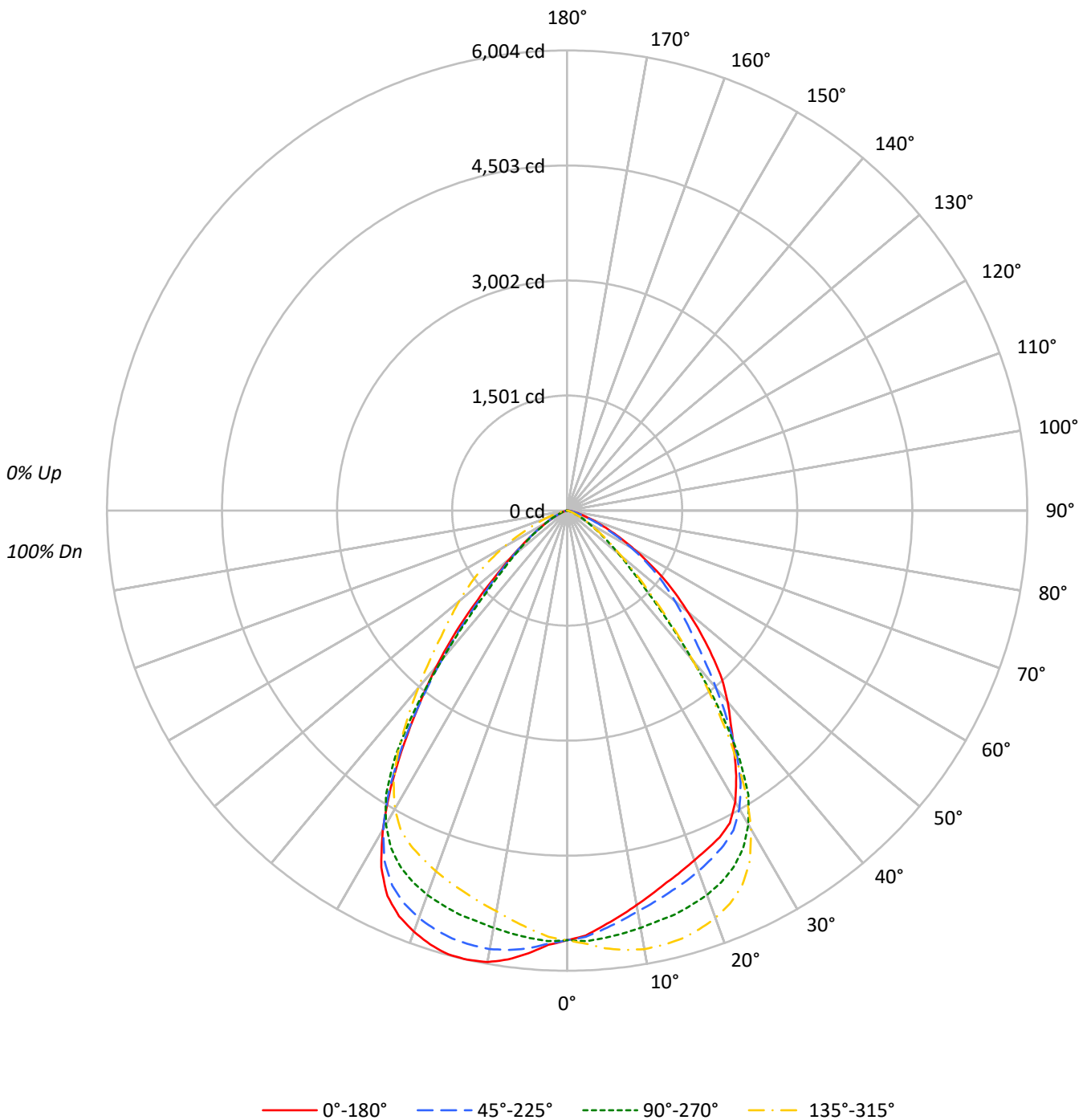
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	90°	180°	270°
0°	172887	172887	172887	172887
5°	168294	173293	179481	173293
10°	163640	173068	187296	173068
15°	160371	174095	191398	174095
20°	159279	175089	191888	175089
25°	160114	174738	188803	174738
30°	156157	168341	171368	168341
35°	142833	146850	139332	146850
40°	131135	102152	106677	102152
45°	116519	62317	72108	62317
50°	98627	41631	46231	41631
55°	81685	28408	30026	28408
60°	62302	18909	19075	18909
65°	44144	11784	10784	11784
70°	31835	7898	7159	7898
75°	20218	3920	3265	3920
80°	14100	2930	2415	2930
85°	12596	0	955	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	533.6	5.7
10°-20°	1545.3	16.4
20°-30°	2340.0	24.8
30°-40°	2345.2	24.8
40°-50°	1472.7	15.6
50°-60°	784.8	8.3
60°-70°	322.7	3.4
70°-80°	85.3	0.9
80°-90°	14.4	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°	4418.9	46.8
0°-40°	6764.1	71.6
0°-60°	9021.6	95.5
0°-90°	9444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9444.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	5607	5607	5607	5607	5607	
5°	5437	5598	5798	5598	5437	513
15°	5024	5453	5995	5453	5024	1421
25°	4706	5136	5549	5136	4706	2158
35°	3794	3901	3701	3901	3794	2377
45°	2672	1429	1654	1429	2672	2055
55°	1519	528	558	528	1519	1355
65°	605	162	148	162	605	628
75°	170	33	27	33	170	192
85°	36	0	3	0	36	39
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°	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6
2.5°	5549.1	5543.6	5540.9	5546.4	5549.1	5560.1	5557.4	5562.8	5562.8	5565.6	5571.0
5°	5436.9	5434.1	5436.9	5436.9	5447.8	5458.8	5456.1	5464.3	5469.7	5483.4	5488.9
7.5°	5332.9	5332.9	5330.1	5341.0	5346.5	5363.0	5360.2	5373.9	5382.1	5395.8	5414.9
10°	5226.1	5226.1	5228.8	5237.0	5239.8	5264.4	5264.4	5283.5	5294.5	5308.2	5332.9
12.5°	5122.1	5122.1	5138.5	5133.0	5143.9	5163.1	5171.3	5190.5	5206.9	5234.3	5259.0
15°	5023.5	5023.5	5029.0	5042.6	5050.9	5075.5	5089.2	5111.1	5130.3	5157.7	5193.3
17.5°	4938.6	4935.9	4938.6	4955.1	4971.5	4993.4	5004.3	5031.7	5050.9	5086.5	5119.4
20°	4853.8	4859.3	4859.3	4872.9	4883.9	4911.2	4922.2	4952.4	4974.2	5007.0	5045.4
22.5°	4779.9	4777.2	4777.2	4796.3	4804.5	4829.1	4840.0	4867.4	4892.1	4919.5	4955.1
25°	4705.9	4700.4	4711.5	4714.2	4719.6	4747.0	4755.2	4774.3	4799.0	4823.7	4859.3
27.5°	4596.4	4591.0	4593.7	4604.6	4612.9	4634.7	4640.2	4659.4	4678.6	4700.4	4730.6
30°	4385.6	4380.2	4377.5	4396.6	4404.9	4421.2	4429.4	4462.3	4467.7	4492.4	4514.3
32.5°	4106.4	4103.7	4109.2	4125.5	4133.7	4155.7	4166.6	4185.8	4199.4	4213.2	4235.0
35°	3794.3	3788.8	3794.3	3810.8	3810.8	3829.9	3838.2	3846.3	3843.6	3846.3	3840.9
37.5°	3504.2	3501.4	3504.2	3512.3	3504.2	3512.3	3504.2	3487.7	3457.6	3424.7	3391.8
40°	3257.7	3260.5	3244.1	3255.0	3224.8	3219.4	3189.4	3148.2	3088.0	3022.4	2929.3
42.5°	2995.0	2986.7	2975.8	2981.2	2956.7	2937.4	2888.2	2836.2	2759.5	2650.1	2537.7
45°	2671.9	2669.2	2663.7	2661.0	2644.5	2625.4	2584.2	2524.1	2439.2	2327.0	2192.8
47.5°	2357.1	2348.9	2348.9	2351.6	2332.4	2329.7	2296.8	2244.9	2170.9	2061.4	1921.8
50°	2055.9	2053.2	2058.7	2069.6	2055.9	2050.5	2028.6	1993.0	1927.3	1834.2	1702.7
52.5°	1784.9	1782.2	1787.7	1801.3	1795.8	1801.3	1779.5	1752.1	1708.3	1617.9	1503.0
55°	1519.4	1519.4	1519.4	1535.7	1535.7	1535.7	1524.8	1508.5	1467.3	1401.7	1294.9
57.5°	1242.9	1245.6	1262.0	1264.7	1262.0	1267.6	1264.7	1248.3	1221.0	1174.5	1092.3
60°	1010.2	1010.2	1018.4	1026.6	1023.8	1026.6	1026.6	1018.4	991.0	952.7	887.0
62.5°	799.4	807.6	802.1	807.6	818.5	807.6	802.1	796.7	777.5	752.8	698.1
65°	605.0	610.5	610.5	613.2	607.7	610.5	599.6	591.4	580.4	553.0	517.4
67.5°	460.0	460.0	460.0	460.0	457.2	454.4	451.7	443.5	424.4	413.4	375.0
70°	353.1	336.7	336.7	336.7	336.7	339.5	331.3	320.4	314.8	295.7	268.3
72.5°	235.4	240.9	235.4	235.4	230.0	232.7	221.8	216.2	210.8	199.9	183.4
75°	169.7	156.1	161.5	164.3	156.1	161.5	150.5	139.6	139.6	131.4	123.2
77.5°	109.5	106.8	109.5	112.2	109.5	106.8	101.3	95.8	95.8	93.1	84.8
80°	79.4	76.6	76.6	76.6	73.9	76.6	71.2	71.2	65.7	63.0	57.5
82.5°	52.1	52.1	49.2	52.1	49.2	52.1	43.8	43.8	43.8	41.0	35.6
85°	35.6	30.1	30.1	32.9	27.4	32.9	30.1	27.4	24.7	24.7	21.9
87.5°	16.5	19.2	16.5	19.2	16.5	16.5	19.2	16.5	16.5	10.9	10.9
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°	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6
2.5°	5579.2	5581.9	5581.9	5593.0	5598.4	5601.1	5601.1	5623.1	5614.8	5620.4	5625.8
5°	5499.9	5516.2	5521.8	5521.8	5551.8	5562.8	5573.7	5598.4	5601.1	5617.5	5636.7
7.5°	5423.2	5442.3	5453.4	5477.9	5497.1	5516.2	5549.1	5565.6	5581.9	5603.9	5628.5
10°	5349.2	5371.2	5393.1	5412.2	5442.3	5467.0	5488.9	5527.2	5546.4	5576.5	5609.3
12.5°	5278.1	5308.2	5327.4	5360.2	5393.1	5414.9	5447.8	5483.4	5513.5	5543.6	5581.9
15°	5215.1	5250.8	5272.6	5308.2	5343.8	5373.9	5409.5	5453.4	5475.2	5510.8	5546.4
17.5°	5146.6	5185.1	5212.4	5245.2	5289.1	5321.9	5352.1	5395.8	5423.2	5461.5	5502.6
20°	5075.5	5113.8	5146.6	5179.5	5223.4	5256.2	5291.8	5335.6	5365.7	5404.0	5436.9
22.5°	4990.7	5026.3	5061.8	5100.1	5143.9	5171.3	5212.4	5250.8	5283.5	5319.2	5352.1
25°	4881.2	4925.0	4952.4	4987.9	5023.5	5053.6	5097.4	5135.7	5163.1	5196.0	5226.1
27.5°	4752.5	4785.4	4807.2	4837.3	4872.9	4900.3	4933.1	4971.5	4998.9	5029.0	5050.9
30°	4533.4	4563.6	4582.8	4604.6	4640.2	4664.9	4692.3	4727.8	4747.0	4768.9	4788.1
32.5°	4246.0	4270.6	4281.6	4298.0	4322.7	4347.3	4369.2	4399.3	4407.6	4421.2	4421.2
35°	3829.9	3835.4	3832.7	3838.2	3849.1	3862.7	3881.9	3901.0	3912.0	3912.0	3903.9
37.5°	3342.6	3309.8	3274.2	3246.8	3238.6	3233.1	3244.1	3252.2	3263.3	3268.7	3255.0
40°	2836.2	2762.3	2682.8	2611.6	2562.4	2540.5	2532.3	2537.7	2537.7	2556.9	2556.9
42.5°	2400.9	2285.9	2168.2	2061.4	1990.2	1935.5	1910.9	1910.9	1913.6	1927.3	1935.5
45°	2039.5	1894.4	1757.5	1639.9	1541.3	1470.0	1437.3	1429.0	1426.3	1431.7	1450.9
47.5°	1763.0	1612.5	1470.0	1325.0	1221.0	1149.8	1119.7	1108.7	1097.7	1108.7	1111.5
50°	1546.8	1390.7	1240.2	1095.0	985.5	922.5	884.2	867.8	865.1	865.1	870.6
52.5°	1349.6	1204.6	1054.0	906.2	791.1	731.0	695.4	687.1	676.2	687.1	687.1
55°	1163.4	1018.4	870.6	731.0	635.1	572.2	539.3	528.4	522.8	531.1	531.1
57.5°	961.0	837.7	700.9	574.9	479.1	435.3	410.6	397.0	394.2	399.7	394.2
60°	788.4	684.4	566.7	451.7	377.8	331.3	312.1	306.6	301.1	306.6	306.6
62.5°	624.1	536.6	440.7	353.1	290.2	257.4	235.4	235.4	232.7	232.7	235.4
65°	462.7	394.2	325.8	251.8	202.6	177.9	161.5	161.5	158.8	161.5	158.8
67.5°	336.7	290.2	235.4	183.4	145.1	131.4	120.5	112.2	117.8	112.2	109.5
70°	246.4	208.0	169.7	139.6	112.2	98.6	90.4	87.6	82.1	82.1	82.1
72.5°	164.3	139.6	114.9	90.4	73.9	60.2	57.5	52.1	46.5	49.2	54.8
75°	109.5	93.1	82.1	65.7	49.2	49.2	32.9	32.9	27.4	32.9	24.7
77.5°	76.6	63.0	49.2	41.0	32.9	30.1	21.9	21.9	19.2	19.2	19.2
80°	54.8	46.5	35.6	30.1	21.9	21.9	19.2	16.5	13.6	13.6	16.5
82.5°	32.9	24.7	24.7	21.9	13.6	10.9	8.2	10.9	5.5	5.5	5.5
85°	19.2	16.5	13.6	8.2	5.5	5.5	2.7	0.0	2.7	2.7	0.0
87.5°	10.9	5.5	5.5	2.7	0.0	2.7	2.7	0.0	0.0	0.0	5.5
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°	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6
2.5°	5639.5	5636.7	5642.2	5642.2	5658.7	5655.8	5664.1	5664.1	5658.7	5661.4	5672.3
5°	5658.7	5666.9	5683.2	5697.0	5721.5	5732.6	5746.2	5760.0	5762.7	5770.9	5779.1
7.5°	5658.7	5686.0	5705.2	5729.8	5762.7	5781.8	5811.9	5836.6	5847.5	5861.2	5877.6
10°	5647.6	5675.0	5710.6	5738.0	5779.1	5809.2	5839.3	5877.6	5894.1	5915.9	5937.9
12.5°	5625.8	5655.8	5694.2	5729.8	5776.3	5803.7	5842.0	5877.6	5902.3	5932.4	5957.0
15°	5593.0	5628.5	5664.1	5699.7	5748.9	5781.8	5817.4	5858.4	5883.1	5915.9	5937.9
17.5°	5540.9	5579.2	5612.1	5644.9	5691.5	5729.8	5762.7	5801.0	5825.7	5853.0	5883.1
20°	5477.9	5513.5	5549.1	5576.5	5623.1	5655.8	5691.5	5727.1	5746.2	5751.7	5798.3
22.5°	5398.6	5423.2	5450.5	5494.4	5521.8	5551.8	5584.7	5617.5	5636.7	5666.9	5683.2
25°	5267.1	5291.8	5321.9	5341.0	5373.9	5398.6	5431.4	5467.0	5477.9	5499.9	5516.2
27.5°	5083.8	5097.4	5111.1	5127.5	5146.6	5160.4	5179.5	5196.0	5206.9	5217.9	5228.8
30°	4793.5	4793.5	4793.5	4782.6	4790.8	4799.0	4801.7	4799.0	4799.0	4796.3	4796.3
32.5°	4410.3	4388.4	4363.7	4341.9	4333.6	4322.7	4317.2	4309.0	4295.3	4287.1	4289.8
35°	3892.8	3843.6	3813.5	3786.1	3764.3	3747.8	3739.6	3731.4	3728.6	3717.7	3706.7
37.5°	3246.8	3211.2	3189.4	3172.9	3153.7	3137.3	3140.0	3142.8	3150.9	3145.5	3148.2
40°	2562.4	2554.2	2562.4	2543.2	2537.7	2543.2	2556.9	2576.1	2587.1	2598.0	2617.2
42.5°	1949.2	1962.8	1982.1	1982.1	1990.2	2001.2	2017.6	2047.8	2064.1	2083.3	2105.2
45°	1467.3	1483.8	1508.5	1516.6	1522.1	1535.7	1555.0	1579.6	1590.5	1607.0	1626.1
47.5°	1130.7	1141.6	1155.2	1169.0	1182.6	1188.1	1207.3	1207.3	1221.0	1232.0	1237.4
50°	881.5	892.4	903.4	911.6	917.1	925.3	930.8	939.0	941.7	947.2	949.9
52.5°	689.8	703.6	703.6	709.0	717.2	725.4	722.7	725.4	728.2	728.2	736.4
55°	539.3	539.3	547.5	547.5	553.0	550.2	553.0	553.0	553.0	553.0	555.7
57.5°	402.4	405.2	413.4	407.9	405.2	410.6	405.2	410.6	407.9	413.4	405.2
60°	309.3	309.3	312.1	312.1	314.8	314.8	314.8	312.1	312.1	309.3	309.3
62.5°	232.7	235.4	238.2	235.4	235.4	235.4	232.7	232.7	230.0	227.2	227.2
65°	156.1	153.4	158.8	153.4	156.1	156.1	153.4	156.1	147.8	150.5	147.8
67.5°	112.2	109.5	106.8	109.5	106.8	104.0	104.0	106.8	109.5	101.3	101.3
70°	73.9	76.6	73.9	76.6	79.4	79.4	76.6	73.9	76.6	71.2	73.9
72.5°	46.5	46.5	46.5	46.5	46.5	49.2	49.2	49.2	43.8	43.8	41.0
75°	21.9	30.1	24.7	21.9	30.1	30.1	27.4	27.4	24.7	24.7	24.7
77.5°	21.9	16.5	16.5	16.5	16.5	16.5	16.5	16.5	13.6	16.5	13.6
80°	10.9	10.9	10.9	8.2	10.9	10.9	13.6	10.9	10.9	8.2	13.6
82.5°	5.5	5.5	5.5	0.0	2.7	5.5	5.5	2.7	5.5	5.5	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: P248762

CATALOG NUMBER: LD8B100D010 ER8B100827 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6
2.5°	5669.6	5666.9	5669.6	5672.3	5669.6	5666.9	5669.6	5672.3	5661.4	5658.7	5664.1
5°	5790.0	5790.0	5795.5	5798.3	5795.5	5790.0	5790.0	5779.1	5770.9	5762.7	5760.0
7.5°	5894.1	5899.6	5905.0	5907.7	5905.0	5899.6	5894.1	5877.6	5861.2	5847.5	5836.6
10°	5957.0	5965.3	5976.2	5981.6	5976.2	5965.3	5957.0	5937.9	5915.9	5894.1	5877.6
12.5°	5984.4	5992.7	6006.3	6003.6	6006.3	5992.7	5984.4	5957.0	5932.4	5902.3	5877.6
15°	5965.3	5976.2	5989.8	5995.4	5989.8	5976.2	5965.3	5937.9	5915.9	5883.1	5858.4
17.5°	5905.0	5921.4	5929.7	5937.9	5929.7	5921.4	5905.0	5883.1	5853.0	5825.7	5801.0
20°	5822.8	5833.9	5844.8	5847.5	5844.8	5833.9	5822.8	5798.3	5751.7	5746.2	5727.1
22.5°	5705.2	5713.4	5738.0	5729.8	5738.0	5713.4	5705.2	5683.2	5666.9	5636.7	5617.5
25°	5535.4	5543.6	5546.4	5549.1	5546.4	5543.6	5535.4	5516.2	5499.9	5477.9	5467.0
27.5°	5242.5	5242.5	5247.9	5250.8	5247.9	5242.5	5242.5	5228.8	5217.9	5206.9	5196.0
30°	4799.0	4799.0	4799.0	4812.8	4799.0	4799.0	4799.0	4796.3	4796.3	4799.0	4799.0
32.5°	4287.1	4281.6	4276.2	4281.6	4276.2	4281.6	4287.1	4289.8	4287.1	4295.3	4309.0
35°	3706.7	3704.0	3712.2	3701.3	3712.2	3704.0	3706.7	3706.7	3717.7	3728.6	3731.4
37.5°	3150.9	3145.5	3156.4	3145.5	3156.4	3145.5	3150.9	3148.2	3145.5	3150.9	3142.8
40°	2622.7	2628.1	2628.1	2650.1	2628.1	2628.1	2622.7	2617.2	2598.0	2587.1	2576.1
42.5°	2116.2	2132.6	2127.1	2143.5	2127.1	2132.6	2116.2	2105.2	2083.3	2064.1	2047.8
45°	1637.0	1648.1	1648.1	1653.5	1648.1	1648.1	1637.0	1626.1	1607.0	1590.5	1579.6
47.5°	1256.5	1256.5	1256.5	1259.3	1256.5	1256.5	1256.5	1237.4	1232.0	1221.0	1207.3
50°	955.4	958.1	961.0	963.7	961.0	958.1	955.4	949.9	947.2	941.7	939.0
52.5°	733.7	736.4	731.0	736.4	731.0	736.4	733.7	736.4	728.2	728.2	725.4
55°	555.7	553.0	555.7	558.5	555.7	553.0	555.7	555.7	553.0	553.0	553.0
57.5°	407.9	402.4	402.4	402.4	402.4	402.4	407.9	405.2	413.4	407.9	410.6
60°	303.9	306.6	306.6	309.3	306.6	306.6	303.9	309.3	309.3	312.1	312.1
62.5°	224.5	232.7	227.2	232.7	227.2	232.7	224.5	227.2	227.2	230.0	232.7
65°	145.1	145.1	145.1	147.8	145.1	145.1	145.1	147.8	150.5	147.8	156.1
67.5°	98.6	101.3	106.8	104.0	106.8	101.3	98.6	101.3	101.3	109.5	106.8
70°	79.4	71.2	71.2	79.4	71.2	71.2	79.4	73.9	71.2	76.6	73.9
72.5°	46.5	41.0	46.5	46.5	46.5	41.0	46.5	41.0	43.8	43.8	49.2
75°	24.7	21.9	19.2	27.4	19.2	21.9	24.7	24.7	24.7	24.7	27.4
77.5°	16.5	13.6	19.2	19.2	19.2	13.6	16.5	13.6	16.5	13.6	16.5
80°	8.2	10.9	8.2	13.6	8.2	10.9	8.2	13.6	8.2	10.9	10.9
82.5°	2.7	5.5	5.5	5.5	5.5	5.5	2.7	2.7	5.5	5.5	2.7
85°	0.0	5.5	2.7	2.7	2.7	5.5	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: P248762

CATALOG NUMBER: LD8B100D010 ER8B100827 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6
2.5°	5664.1	5655.8	5658.7	5642.2	5642.2	5636.7	5639.5	5625.8	5620.4	5614.8	5623.1
5°	5746.2	5732.6	5721.5	5697.0	5683.2	5666.9	5658.7	5636.7	5617.5	5601.1	5598.4
7.5°	5811.9	5781.8	5762.7	5729.8	5705.2	5686.0	5658.7	5628.5	5603.9	5581.9	5565.6
10°	5839.3	5809.2	5779.1	5738.0	5710.6	5675.0	5647.6	5609.3	5576.5	5546.4	5527.2
12.5°	5842.0	5803.7	5776.3	5729.8	5694.2	5655.8	5625.8	5581.9	5543.6	5513.5	5483.4
15°	5817.4	5781.8	5748.9	5699.7	5664.1	5628.5	5593.0	5546.4	5510.8	5475.2	5453.4
17.5°	5762.7	5729.8	5691.5	5644.9	5612.1	5579.2	5540.9	5502.6	5461.5	5423.2	5395.8
20°	5691.5	5655.8	5623.1	5576.5	5549.1	5513.5	5477.9	5436.9	5404.0	5365.7	5335.6
22.5°	5584.7	5551.8	5521.8	5494.4	5450.5	5423.2	5398.6	5352.1	5319.2	5283.5	5250.8
25°	5431.4	5398.6	5373.9	5341.0	5321.9	5291.8	5267.1	5226.1	5196.0	5163.1	5135.7
27.5°	5179.5	5160.4	5146.6	5127.5	5111.1	5097.4	5083.8	5050.9	5029.0	4998.9	4971.5
30°	4801.7	4799.0	4790.8	4782.6	4793.5	4793.5	4793.5	4788.1	4768.9	4747.0	4727.8
32.5°	4317.2	4322.7	4333.6	4341.9	4363.7	4388.4	4410.3	4421.2	4421.2	4407.6	4399.3
35°	3739.6	3747.8	3764.3	3786.1	3813.5	3843.6	3892.8	3903.9	3912.0	3912.0	3901.0
37.5°	3140.0	3137.3	3153.7	3172.9	3189.4	3211.2	3246.8	3255.0	3268.7	3263.3	3252.2
40°	2556.9	2543.2	2537.7	2543.2	2562.4	2554.2	2562.4	2556.9	2556.9	2537.7	2537.7
42.5°	2017.6	2001.2	1990.2	1982.1	1982.1	1962.8	1949.2	1935.5	1927.3	1913.6	1910.9
45°	1555.0	1535.7	1522.1	1516.6	1508.5	1483.8	1467.3	1450.9	1431.7	1426.3	1429.0
47.5°	1207.3	1188.1	1182.6	1169.0	1155.2	1141.6	1130.7	1111.5	1108.7	1097.7	1108.7
50°	930.8	925.3	917.1	911.6	903.4	892.4	881.5	870.6	865.1	865.1	867.8
52.5°	722.7	725.4	717.2	709.0	703.6	703.6	689.8	687.1	687.1	676.2	687.1
55°	553.0	550.2	553.0	547.5	547.5	539.3	539.3	531.1	531.1	522.8	528.4
57.5°	405.2	410.6	405.2	407.9	413.4	405.2	402.4	394.2	399.7	394.2	397.0
60°	314.8	314.8	314.8	312.1	312.1	309.3	309.3	306.6	306.6	301.1	306.6
62.5°	232.7	235.4	235.4	235.4	238.2	235.4	232.7	235.4	232.7	232.7	235.4
65°	153.4	156.1	156.1	153.4	158.8	153.4	156.1	158.8	161.5	158.8	161.5
67.5°	104.0	104.0	106.8	109.5	106.8	109.5	112.2	109.5	112.2	117.8	112.2
70°	76.6	79.4	79.4	76.6	73.9	76.6	73.9	82.1	82.1	82.1	87.6
72.5°	49.2	49.2	46.5	46.5	46.5	46.5	46.5	54.8	49.2	46.5	52.1
75°	27.4	30.1	30.1	21.9	24.7	30.1	21.9	24.7	32.9	27.4	32.9
77.5°	16.5	16.5	16.5	16.5	16.5	16.5	21.9	19.2	19.2	19.2	21.9
80°	13.6	10.9	10.9	8.2	10.9	10.9	10.9	16.5	13.6	13.6	16.5
82.5°	5.5	5.5	2.7	0.0	5.5	5.5	5.5	5.5	5.5	5.5	10.9
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	5.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248762

CATALOG NUMBER: LD8B100D010 ER8B100827 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6
2.5°	5601.1	5601.1	5598.4	5593.0	5581.9	5581.9	5579.2	5571.0	5565.6	5562.8	5562.8
5°	5573.7	5562.8	5551.8	5521.8	5521.8	5516.2	5499.9	5488.9	5483.4	5469.7	5464.3
7.5°	5549.1	5516.2	5497.1	5477.9	5453.4	5442.3	5423.2	5414.9	5395.8	5382.1	5373.9
10°	5488.9	5467.0	5442.3	5412.2	5393.1	5371.2	5349.2	5332.9	5308.2	5294.5	5283.5
12.5°	5447.8	5414.9	5393.1	5360.2	5327.4	5308.2	5278.1	5259.0	5234.3	5206.9	5190.5
15°	5409.5	5373.9	5343.8	5308.2	5272.6	5250.8	5215.1	5193.3	5157.7	5130.3	5111.1
17.5°	5352.1	5321.9	5289.1	5245.2	5212.4	5185.1	5146.6	5119.4	5086.5	5050.9	5031.7
20°	5291.8	5256.2	5223.4	5179.5	5146.6	5113.8	5075.5	5045.4	5007.0	4974.2	4952.4
22.5°	5212.4	5171.3	5143.9	5100.1	5061.8	5026.3	4990.7	4955.1	4919.5	4892.1	4867.4
25°	5097.4	5053.6	5023.5	4987.9	4952.4	4925.0	4881.2	4859.3	4823.7	4799.0	4774.3
27.5°	4933.1	4900.3	4872.9	4837.3	4807.2	4785.4	4752.5	4730.6	4700.4	4678.6	4659.4
30°	4692.3	4664.9	4640.2	4604.6	4582.8	4563.6	4533.4	4514.3	4492.4	4467.7	4462.3
32.5°	4369.2	4347.3	4322.7	4298.0	4281.6	4270.6	4246.0	4235.0	4213.2	4199.4	4185.8
35°	3881.9	3862.7	3849.1	3838.2	3832.7	3835.4	3829.9	3840.9	3846.3	3843.6	3846.3
37.5°	3244.1	3233.1	3238.6	3246.8	3274.2	3309.8	3342.6	3391.8	3424.7	3457.6	3487.7
40°	2532.3	2540.5	2562.4	2611.6	2682.8	2762.3	2836.2	2929.3	3022.4	3088.0	3148.2
42.5°	1910.9	1935.5	1990.2	2061.4	2168.2	2285.9	2400.9	2537.7	2650.1	2759.5	2836.2
45°	1437.3	1470.0	1541.3	1639.9	1757.5	1894.4	2039.5	2192.8	2327.0	2439.2	2524.1
47.5°	1119.7	1149.8	1221.0	1325.0	1470.0	1612.5	1763.0	1921.8	2061.4	2170.9	2244.9
50°	884.2	922.5	985.5	1095.0	1240.2	1390.7	1546.8	1702.7	1834.2	1927.3	1993.0
52.5°	695.4	731.0	791.1	906.2	1054.0	1204.6	1349.6	1503.0	1617.9	1708.3	1752.1
55°	539.3	572.2	635.1	731.0	870.6	1018.4	1163.4	1294.9	1401.7	1467.3	1508.5
57.5°	410.6	435.3	479.1	574.9	700.9	837.7	961.0	1092.3	1174.5	1221.0	1248.3
60°	312.1	331.3	377.8	451.7	566.7	684.4	788.4	887.0	952.7	991.0	1018.4
62.5°	235.4	257.4	290.2	353.1	440.7	536.6	624.1	698.1	752.8	777.5	796.7
65°	161.5	177.9	202.6	251.8	325.8	394.2	462.7	517.4	553.0	580.4	591.4
67.5°	120.5	131.4	145.1	183.4	235.4	290.2	336.7	375.0	413.4	424.4	443.5
70°	90.4	98.6	112.2	139.6	169.7	208.0	246.4	268.3	295.7	314.8	320.4
72.5°	57.5	60.2	73.9	90.4	114.9	139.6	164.3	183.4	199.9	210.8	216.2
75°	32.9	49.2	49.2	65.7	82.1	93.1	109.5	123.2	131.4	139.6	139.6
77.5°	21.9	30.1	32.9	41.0	49.2	63.0	76.6	84.8	93.1	95.8	95.8
80°	19.2	21.9	21.9	30.1	35.6	46.5	54.8	57.5	63.0	65.7	71.2
82.5°	8.2	10.9	13.6	21.9	24.7	24.7	32.9	35.6	41.0	43.8	43.8
85°	2.7	5.5	5.5	8.2	13.6	16.5	19.2	21.9	24.7	24.7	27.4
87.5°	2.7	2.7	0.0	2.7	5.5	5.5	10.9	10.9	10.9	16.5	16.5
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: P248762

CATALOG NUMBER: LD8B100D010 ER8B100827 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6
2.5°	5557.4	5560.1	5549.1	5546.4	5540.9	5543.6	5549.1
5°	5456.1	5458.8	5447.8	5436.9	5436.9	5434.1	5436.9
7.5°	5360.2	5363.0	5346.5	5341.0	5330.1	5332.9	5332.9
10°	5264.4	5264.4	5239.8	5237.0	5228.8	5226.1	5226.1
12.5°	5171.3	5163.1	5143.9	5133.0	5138.5	5122.1	5122.1
15°	5089.2	5075.5	5050.9	5042.6	5029.0	5023.5	5023.5
17.5°	5004.3	4993.4	4971.5	4955.1	4938.6	4935.9	4938.6
20°	4922.2	4911.2	4883.9	4872.9	4859.3	4859.3	4853.8
22.5°	4840.0	4829.1	4804.5	4796.3	4777.2	4777.2	4779.9
25°	4755.2	4747.0	4719.6	4714.2	4711.5	4700.4	4705.9
27.5°	4640.2	4634.7	4612.9	4604.6	4593.7	4591.0	4596.4
30°	4429.4	4421.2	4404.9	4396.6	4377.5	4380.2	4385.6
32.5°	4166.6	4155.7	4133.7	4125.5	4109.2	4103.7	4106.4
35°	3838.2	3829.9	3810.8	3810.8	3794.3	3788.8	3794.3
37.5°	3504.2	3512.3	3504.2	3512.3	3504.2	3501.4	3504.2
40°	3189.4	3219.4	3224.8	3255.0	3244.1	3260.5	3257.7
42.5°	2888.2	2937.4	2956.7	2981.2	2975.8	2986.7	2995.0
45°	2584.2	2625.4	2644.5	2661.0	2663.7	2669.2	2671.9
47.5°	2296.8	2329.7	2332.4	2351.6	2348.9	2348.9	2357.1
50°	2028.6	2050.5	2055.9	2069.6	2058.7	2053.2	2055.9
52.5°	1779.5	1801.3	1795.8	1801.3	1787.7	1782.2	1784.9
55°	1524.8	1535.7	1535.7	1535.7	1519.4	1519.4	1519.4
57.5°	1264.7	1267.6	1262.0	1264.7	1262.0	1245.6	1242.9
60°	1026.6	1026.6	1023.8	1026.6	1018.4	1010.2	1010.2
62.5°	802.1	807.6	818.5	807.6	802.1	807.6	799.4
65°	599.6	610.5	607.7	613.2	610.5	610.5	605.0
67.5°	451.7	454.4	457.2	460.0	460.0	460.0	460.0
70°	331.3	339.5	336.7	336.7	336.7	336.7	353.1
72.5°	221.8	232.7	230.0	235.4	235.4	240.9	235.4
75°	150.5	161.5	156.1	164.3	161.5	156.1	169.7
77.5°	101.3	106.8	109.5	112.2	109.5	106.8	109.5
80°	71.2	76.6	73.9	76.6	76.6	76.6	79.4
82.5°	43.8	52.1	49.2	52.1	49.2	52.1	52.1
85°	30.1	32.9	27.4	32.9	30.1	30.1	35.6
87.5°	19.2	16.5	16.5	19.2	16.5	19.2	16.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)