

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: P248856

Luminaire Tested: **LD8B200D010 ER8B2009727 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248856
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: LD8B200D010 ER8B2009727 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: 13937.0 lumens
Efficiency: N/A
Efficacy: 62.4 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

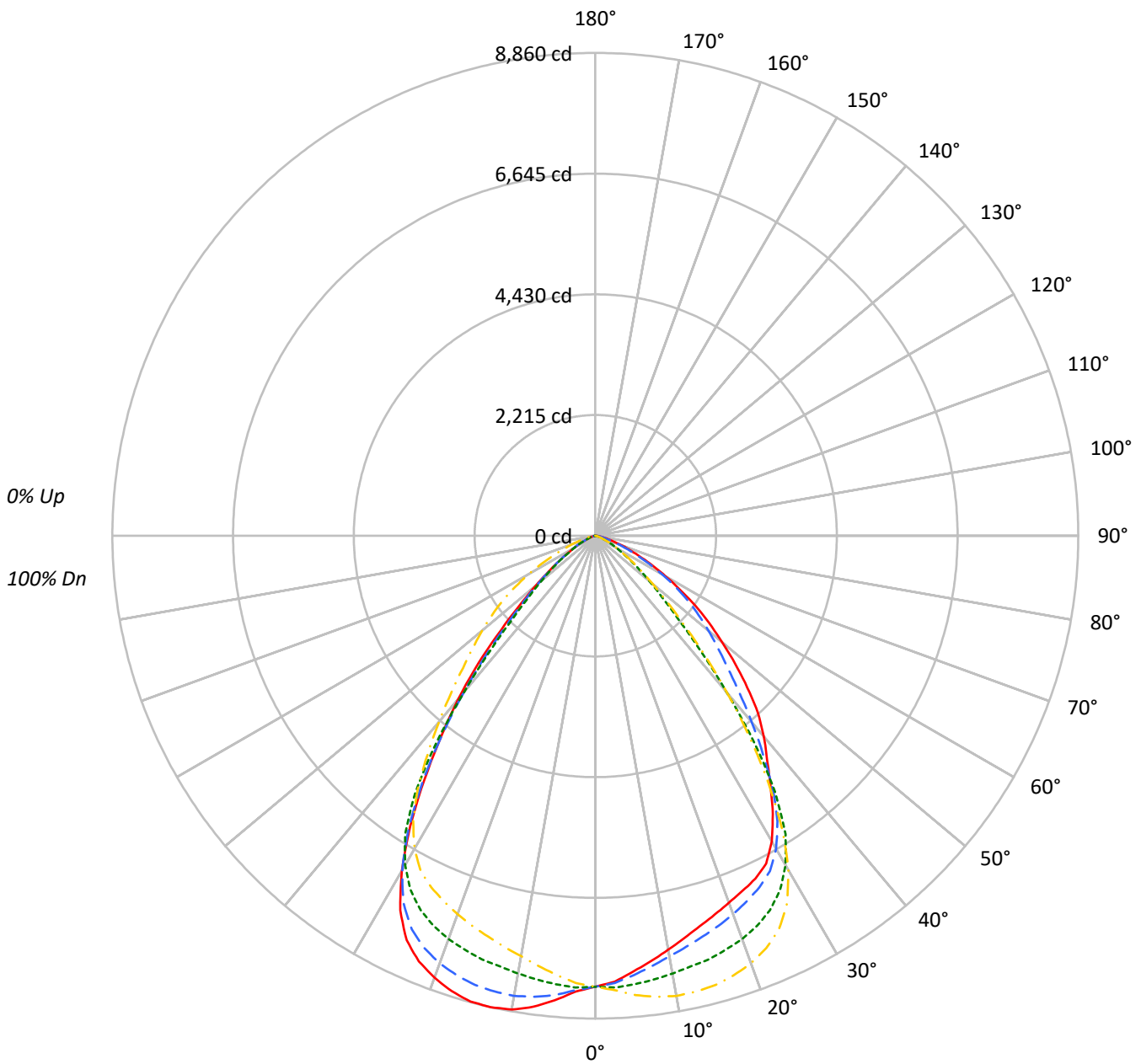
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	787.5	5.7
10°-20°	2280.5	16.4
20°-30°	3453.2	24.8
30°-40°	3460.9	24.8
40°-50°	2173.3	15.6
50°-60°	1158.2	8.3
60°-70°	476.3	3.4
70°-80°	125.8	0.9
80°-90°	21.3	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°	6521.2	46.8
0°-40°	9982.2	71.6
0°-60°	13313.6	95.5
0°-90°	13937.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13937.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8274	8274	8274	8274	8274	
5°	8024	8262	8557	8262	8024	757
15°	7413	8048	8848	8048	7413	2097
25°	6945	7579	8189	7579	6945	3185
35°	5600	5757	5462	5757	5600	3508
45°	3943	2109	2440	2109	3943	3033
55°	2242	780	824	780	2242	1999
65°	893	238	218	238	893	926
75°	250	49	40	49	250	284
85°	52	0	4	0	52	58
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°	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0
2.5°	8189.1	8181.0	8177.0	8185.2	8189.1	8205.3	8201.3	8209.3	8209.3	8213.4	8221.4
5°	8023.5	8019.4	8023.5	8023.5	8039.7	8055.8	8051.8	8063.9	8071.9	8092.2	8100.2
7.5°	7870.0	7870.0	7865.9	7882.0	7890.2	7914.4	7910.3	7930.6	7942.7	7962.8	7991.1
10°	7712.4	7712.4	7716.4	7728.5	7732.7	7768.9	7768.9	7797.2	7813.3	7833.6	7870.0
12.5°	7558.9	7558.9	7583.2	7575.0	7591.2	7619.4	7631.6	7659.8	7684.1	7724.5	7760.9
15°	7413.4	7413.4	7421.5	7441.7	7453.8	7490.2	7510.3	7542.8	7571.0	7611.5	7664.0
17.5°	7288.2	7284.2	7288.2	7312.5	7336.7	7369.0	7385.1	7425.5	7453.8	7506.4	7554.9
20°	7163.0	7171.1	7171.1	7191.2	7207.4	7247.8	7263.9	7308.5	7340.7	7389.1	7445.8
22.5°	7053.9	7049.9	7049.9	7078.2	7090.3	7126.6	7142.7	7183.1	7219.5	7259.9	7312.5
25°	6944.8	6936.6	6952.9	6956.9	6964.9	7005.3	7017.5	7045.7	7082.2	7118.6	7171.1
27.5°	6783.2	6775.2	6779.2	6795.3	6807.4	6839.7	6847.8	6876.1	6904.4	6936.6	6981.2
30°	6472.0	6464.0	6460.1	6488.3	6500.5	6524.6	6536.7	6585.3	6593.3	6629.7	6661.9
32.5°	6060.0	6056.0	6064.1	6088.2	6100.4	6132.8	6148.9	6177.2	6197.3	6217.6	6249.9
35°	5599.5	5591.4	5599.5	5623.8	5623.8	5652.1	5664.2	5676.2	5672.2	5676.2	5668.2
37.5°	5171.3	5167.1	5171.3	5183.3	5171.3	5183.3	5171.3	5147.0	5102.6	5054.1	5005.5
40°	4807.6	4811.6	4787.5	4803.6	4759.1	4751.1	4706.7	4646.0	4557.2	4460.2	4322.9
42.5°	4419.8	4407.7	4391.6	4399.6	4363.3	4334.9	4262.2	4185.5	4072.3	3910.8	3745.0
45°	3943.1	3939.1	3930.9	3927.0	3902.7	3874.4	3813.7	3724.9	3599.7	3434.1	3236.0
47.5°	3478.5	3466.3	3466.3	3470.3	3442.0	3438.1	3389.5	3312.8	3203.8	3042.1	2836.1
50°	3034.0	3030.0	3038.1	3054.3	3034.0	3026.0	2993.7	2941.2	2844.2	2706.9	2512.8
52.5°	2634.0	2630.1	2638.2	2658.3	2650.2	2658.3	2626.1	2585.7	2521.0	2387.6	2218.0
55°	2242.3	2242.3	2242.3	2266.4	2266.4	2266.4	2250.2	2226.1	2165.4	2068.5	1911.0
57.5°	1834.2	1838.2	1862.5	1866.4	1862.5	1870.6	1866.4	1842.2	1801.9	1733.2	1612.0
60°	1490.8	1490.8	1502.9	1515.1	1510.9	1515.1	1515.1	1502.9	1462.5	1406.0	1309.0
62.5°	1179.7	1191.8	1183.7	1191.8	1207.9	1191.8	1183.7	1175.7	1147.4	1111.0	1030.2
65°	892.8	901.0	901.0	905.0	896.8	901.0	884.8	872.7	856.6	816.2	763.6
67.5°	678.8	678.8	678.8	678.8	674.6	670.7	666.7	654.5	626.3	610.1	553.4
70°	521.2	496.9	496.9	496.9	496.9	501.0	488.9	472.8	464.6	436.3	395.9
72.5°	347.4	355.5	347.4	347.4	339.4	343.4	327.3	319.1	311.1	295.0	270.7
75°	250.4	230.3	238.3	242.5	230.3	238.3	222.2	206.0	206.0	193.9	181.8
77.5°	161.6	157.6	161.6	165.6	161.6	157.6	149.5	141.3	141.3	137.4	125.2
80°	117.2	113.1	113.1	113.1	109.1	113.1	105.1	105.1	96.9	93.0	84.8
82.5°	76.8	76.8	72.7	76.8	72.7	76.8	64.7	64.7	64.7	60.5	52.5
85°	52.5	44.4	44.4	48.6	40.4	48.6	44.4	40.4	36.4	36.4	32.3
87.5°	24.3	28.3	24.3	28.3	24.3	24.3	28.3	24.3	24.3	16.1	16.1
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°	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0
2.5°	8233.5	8237.5	8237.5	8253.8	8261.8	8265.8	8265.8	8298.2	8286.1	8294.2	8302.2
5°	8116.5	8140.6	8148.7	8148.7	8193.1	8209.3	8225.4	8261.8	8265.8	8290.1	8318.4
7.5°	8003.2	8031.5	8047.8	8084.1	8112.3	8140.6	8189.1	8213.4	8237.5	8270.0	8306.2
10°	7894.1	7926.6	7958.8	7987.1	8031.5	8067.9	8100.2	8156.7	8185.2	8229.6	8277.9
12.5°	7789.2	7833.6	7861.9	7910.3	7958.8	7991.1	8039.7	8092.2	8136.6	8181.0	8237.5
15°	7696.3	7748.8	7781.1	7833.6	7886.2	7930.6	7983.1	8047.8	8080.1	8132.6	8185.2
17.5°	7595.2	7651.9	7692.3	7740.7	7805.3	7853.7	7898.3	7962.8	8003.2	8059.8	8120.5
20°	7490.2	7546.8	7595.2	7643.7	7708.4	7756.8	7809.3	7874.0	7918.4	7975.0	8023.5
22.5°	7365.0	7417.6	7469.9	7526.5	7591.2	7631.6	7692.3	7748.8	7797.2	7849.7	7898.3
25°	7203.4	7268.1	7308.5	7360.9	7413.4	7457.8	7522.5	7579.0	7619.4	7668.0	7712.4
27.5°	7013.5	7062.0	7094.3	7138.7	7191.2	7231.6	7280.0	7336.7	7377.2	7421.5	7453.8
30°	6690.2	6734.8	6763.0	6795.3	6847.8	6884.3	6924.7	6977.1	7005.3	7037.8	7066.0
32.5°	6266.0	6302.4	6318.5	6342.8	6379.2	6415.5	6447.9	6492.3	6504.5	6524.6	6524.6
35°	5652.1	5660.0	5656.0	5664.2	5680.3	5700.4	5728.7	5757.0	5773.1	5773.1	5761.1
37.5°	4932.8	4884.5	4831.9	4791.5	4779.4	4771.2	4787.5	4799.5	4815.8	4823.8	4803.6
40°	4185.5	4076.4	3959.2	3854.1	3781.4	3749.2	3737.0	3745.0	3745.0	3773.3	3773.3
42.5°	3543.2	3373.4	3199.8	3042.1	2937.0	2856.4	2820.0	2820.0	2823.9	2844.2	2856.4
45°	3009.9	2795.7	2593.6	2420.0	2274.5	2169.4	2121.0	2108.9	2104.9	2112.9	2141.2
47.5°	2601.8	2379.6	2169.4	1955.4	1801.9	1696.8	1652.4	1636.1	1620.0	1636.1	1640.3
50°	2282.7	2052.4	1830.2	1616.0	1454.4	1361.4	1304.9	1280.6	1276.6	1276.6	1284.8
52.5°	1991.7	1777.6	1555.5	1337.3	1167.5	1078.7	1026.2	1014.0	997.9	1014.0	1014.0
55°	1717.0	1502.9	1284.8	1078.7	937.2	844.4	795.9	779.7	771.6	783.7	783.7
57.5°	1418.1	1236.2	1034.3	848.4	707.1	642.4	606.0	585.8	581.7	589.8	581.7
60°	1163.5	1010.0	836.3	666.7	557.6	488.9	460.6	452.5	444.3	452.5	452.5
62.5°	921.1	791.9	650.4	521.2	428.2	379.8	347.4	347.4	343.4	343.4	347.4
65°	682.8	581.7	480.7	371.7	299.0	262.6	238.3	238.3	234.3	238.3	234.3
67.5°	496.9	428.2	347.4	270.7	214.2	193.9	177.8	165.6	173.8	165.6	161.6
70°	363.7	307.0	250.4	206.0	165.6	145.5	133.4	129.2	121.2	121.2	121.2
72.5°	242.5	206.0	169.6	133.4	109.1	88.8	84.8	76.8	68.7	72.7	80.8
75°	161.6	137.4	121.2	96.9	72.7	72.7	48.6	48.6	40.4	48.6	36.4
77.5°	113.1	93.0	72.7	60.5	48.6	44.4	32.3	32.3	28.3	28.3	28.3
80°	80.8	68.7	52.5	44.4	32.3	32.3	28.3	24.3	20.1	20.1	24.3
82.5°	48.6	36.4	36.4	32.3	20.1	16.1	12.1	16.1	8.1	8.1	8.1
85°	28.3	24.3	20.1	12.1	8.1	8.1	4.0	0.0	4.0	4.0	0.0
87.5°	16.1	8.1	8.1	4.0	0.0	4.0	4.0	0.0	0.0	0.0	8.1
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°	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0
2.5°	8322.5	8318.4	8326.5	8326.5	8350.8	8346.6	8358.8	8358.8	8350.8	8354.8	8370.9
5°	8350.8	8362.9	8387.0	8407.3	8443.6	8459.9	8480.0	8500.3	8504.3	8516.4	8528.5
7.5°	8350.8	8391.2	8419.5	8455.7	8504.3	8532.5	8576.9	8613.4	8629.5	8649.6	8673.9
10°	8334.5	8374.9	8427.4	8467.9	8528.5	8572.9	8617.3	8673.9	8698.2	8730.4	8762.8
12.5°	8302.2	8346.6	8403.2	8455.7	8524.4	8564.8	8621.3	8673.9	8710.3	8754.7	8791.1
15°	8253.8	8306.2	8358.8	8411.3	8484.0	8532.5	8585.1	8645.6	8682.0	8730.4	8762.8
17.5°	8177.0	8233.5	8282.1	8330.5	8399.2	8455.7	8504.3	8560.8	8597.2	8637.6	8682.0
20°	8084.1	8136.6	8189.1	8229.6	8298.2	8346.6	8399.2	8451.7	8480.0	8488.1	8556.8
22.5°	7967.0	8003.2	8043.6	8108.3	8148.7	8193.1	8241.7	8290.1	8318.4	8362.9	8387.0
25°	7772.9	7809.3	7853.7	7882.0	7930.6	7967.0	8015.4	8067.9	8084.1	8116.5	8140.6
27.5°	7502.4	7522.5	7542.8	7566.9	7595.2	7615.4	7643.7	7668.0	7684.1	7700.3	7716.4
30°	7074.0	7074.0	7074.0	7057.9	7070.0	7082.2	7086.1	7082.2	7082.2	7078.2	7078.2
32.5°	6508.4	6476.2	6439.8	6407.5	6395.4	6379.2	6371.1	6359.0	6338.8	6326.7	6330.7
35°	5744.8	5672.2	5627.8	5587.4	5555.1	5530.8	5518.7	5506.5	5502.6	5486.4	5470.1
37.5°	4791.5	4738.9	4706.7	4682.4	4654.1	4629.9	4633.9	4638.0	4650.0	4642.0	4646.0
40°	3781.4	3769.3	3781.4	3753.2	3745.0	3753.2	3773.3	3801.7	3817.9	3834.0	3862.3
42.5°	2876.5	2896.6	2925.1	2925.1	2937.0	2953.3	2977.4	3022.0	3046.1	3074.4	3106.8
45°	2165.4	2189.7	2226.1	2238.1	2246.3	2266.4	2294.8	2331.1	2347.2	2371.5	2399.7
47.5°	1668.6	1684.7	1704.8	1725.1	1745.2	1753.4	1781.6	1781.6	1801.9	1818.1	1826.0
50°	1300.9	1317.0	1333.2	1345.3	1353.4	1365.6	1373.6	1385.7	1389.7	1397.8	1401.8
52.5°	1018.0	1038.3	1038.3	1046.3	1058.4	1070.6	1066.6	1070.6	1074.6	1074.6	1086.7
55°	795.9	795.9	808.0	808.0	816.2	812.0	816.2	816.2	816.2	816.2	820.1
57.5°	593.8	598.0	610.1	602.0	598.0	606.0	598.0	606.0	602.0	610.1	598.0
60°	456.5	456.5	460.6	460.6	464.6	464.6	464.6	460.6	460.6	456.5	456.5
62.5°	343.4	347.4	351.5	347.4	347.4	347.4	343.4	343.4	339.4	335.2	335.2
65°	230.3	226.3	234.3	226.3	230.3	230.3	226.3	230.3	218.2	222.2	218.2
67.5°	165.6	161.6	157.6	161.6	157.6	153.5	153.5	157.6	161.6	149.5	149.5
70°	109.1	113.1	109.1	113.1	117.2	117.2	113.1	109.1	113.1	105.1	109.1
72.5°	68.7	68.7	68.7	68.7	68.7	72.7	72.7	72.7	64.7	64.7	60.5
75°	32.3	44.4	36.4	32.3	44.4	44.4	40.4	40.4	36.4	36.4	36.4
77.5°	32.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	20.1	24.3	20.1
80°	16.1	16.1	16.1	12.1	16.1	16.1	20.1	16.1	16.1	12.1	20.1
82.5°	8.1	8.1	8.1	0.0	4.0	8.1	8.1	4.0	8.1	8.1	4.0
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: P248856

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0
2.5°	8366.9	8362.9	8366.9	8370.9	8366.9	8362.9	8366.9	8370.9	8354.8	8350.8	8358.8
5°	8544.7	8544.7	8552.7	8556.8	8552.7	8544.7	8544.7	8528.5	8516.4	8504.3	8500.3
7.5°	8698.2	8706.3	8714.3	8718.3	8714.3	8706.3	8698.2	8673.9	8649.6	8629.5	8613.4
10°	8791.1	8803.3	8819.4	8827.4	8819.4	8803.3	8791.1	8762.8	8730.4	8698.2	8673.9
12.5°	8831.5	8843.7	8863.8	8859.8	8863.8	8843.7	8831.5	8791.1	8754.7	8710.3	8673.9
15°	8803.3	8819.4	8839.5	8847.7	8839.5	8819.4	8803.3	8762.8	8730.4	8682.0	8645.6
17.5°	8714.3	8738.6	8750.7	8762.8	8750.7	8738.6	8714.3	8682.0	8637.6	8597.2	8560.8
20°	8593.1	8609.4	8625.5	8629.5	8625.5	8609.4	8593.1	8556.8	8488.1	8480.0	8451.7
22.5°	8419.5	8431.6	8467.9	8455.7	8467.9	8431.6	8419.5	8387.0	8362.9	8318.4	8290.1
25°	8168.9	8181.0	8185.2	8189.1	8185.2	8181.0	8168.9	8140.6	8116.5	8084.1	8067.9
27.5°	7736.7	7736.7	7744.7	7748.8	7744.7	7736.7	7736.7	7716.4	7700.3	7684.1	7668.0
30°	7082.2	7082.2	7082.2	7102.4	7082.2	7082.2	7082.2	7078.2	7078.2	7082.2	7082.2
32.5°	6326.7	6318.5	6310.6	6318.5	6310.6	6318.5	6326.7	6330.7	6326.7	6338.8	6359.0
35°	5470.1	5466.1	5478.3	5462.1	5478.3	5466.1	5470.1	5470.1	5486.4	5502.6	5506.5
37.5°	4650.0	4642.0	4658.1	4642.0	4658.1	4642.0	4650.0	4646.0	4642.0	4650.0	4638.0
40°	3870.4	3878.4	3878.4	3910.8	3878.4	3878.4	3870.4	3862.3	3834.0	3817.9	3801.7
42.5°	3122.9	3147.2	3139.1	3163.3	3139.1	3147.2	3122.9	3106.8	3074.4	3046.1	3022.0
45°	2415.9	2432.2	2432.2	2440.1	2432.2	2432.2	2415.9	2399.7	2371.5	2347.2	2331.1
47.5°	1854.3	1854.3	1854.3	1858.5	1854.3	1854.3	1854.3	1826.0	1818.1	1801.9	1781.6
50°	1410.0	1414.0	1418.1	1422.1	1418.1	1414.0	1410.0	1401.8	1397.8	1389.7	1385.7
52.5°	1082.7	1086.7	1078.7	1086.7	1078.7	1086.7	1082.7	1086.7	1074.6	1074.6	1070.6
55°	820.1	816.2	820.1	824.1	820.1	816.2	820.1	820.1	816.2	816.2	816.2
57.5°	602.0	593.8	593.8	593.8	593.8	593.8	602.0	598.0	610.1	602.0	606.0
60°	448.5	452.5	452.5	456.5	452.5	452.5	448.5	456.5	456.5	460.6	460.6
62.5°	331.3	343.4	335.2	343.4	335.2	343.4	331.3	335.2	335.2	339.4	343.4
65°	214.2	214.2	214.2	218.2	214.2	214.2	214.2	218.2	222.2	218.2	230.3
67.5°	145.5	149.5	157.6	153.5	157.6	149.5	145.5	149.5	149.5	161.6	157.6
70°	117.2	105.1	105.1	117.2	105.1	105.1	117.2	109.1	105.1	113.1	109.1
72.5°	68.7	60.5	68.7	68.7	68.7	60.5	68.7	60.5	64.7	64.7	72.7
75°	36.4	32.3	28.3	40.4	28.3	32.3	36.4	36.4	36.4	36.4	40.4
77.5°	24.3	20.1	28.3	28.3	28.3	20.1	24.3	20.1	24.3	20.1	24.3
80°	12.1	16.1	12.1	20.1	12.1	16.1	12.1	20.1	12.1	16.1	16.1
82.5°	4.0	8.1	8.1	8.1	8.1	8.1	4.0	4.0	8.1	8.1	4.0
85°	0.0	8.1	4.0	4.0	4.0	8.1	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	0.0	0.0	4.0	0.0	0.0	4.0	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: P248856

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0
2.5°	8358.8	8346.6	8350.8	8326.5	8326.5	8318.4	8322.5	8302.2	8294.2	8286.1	8298.2
5°	8480.0	8459.9	8443.6	8407.3	8387.0	8362.9	8350.8	8318.4	8290.1	8265.8	8261.8
7.5°	8576.9	8532.5	8504.3	8455.7	8419.5	8391.2	8350.8	8306.2	8270.0	8237.5	8213.4
10°	8617.3	8572.9	8528.5	8467.9	8427.4	8374.9	8334.5	8277.9	8229.6	8185.2	8156.7
12.5°	8621.3	8564.8	8524.4	8455.7	8403.2	8346.6	8302.2	8237.5	8181.0	8136.6	8092.2
15°	8585.1	8532.5	8484.0	8411.3	8358.8	8306.2	8253.8	8185.2	8132.6	8080.1	8047.8
17.5°	8504.3	8455.7	8399.2	8330.5	8282.1	8233.5	8177.0	8120.5	8059.8	8003.2	7962.8
20°	8399.2	8346.6	8298.2	8229.6	8189.1	8136.6	8084.1	8023.5	7975.0	7918.4	7874.0
22.5°	8241.7	8193.1	8148.7	8108.3	8043.6	8003.2	7967.0	7898.3	7849.7	7797.2	7748.8
25°	8015.4	7967.0	7930.6	7882.0	7853.7	7809.3	7772.9	7712.4	7668.0	7619.4	7579.0
27.5°	7643.7	7615.4	7595.2	7566.9	7542.8	7522.5	7502.4	7453.8	7421.5	7377.2	7336.7
30°	7086.1	7082.2	7070.0	7057.9	7074.0	7074.0	7074.0	7066.0	7037.8	7005.3	6977.1
32.5°	6371.1	6379.2	6395.4	6407.5	6439.8	6476.2	6508.4	6524.6	6524.6	6504.5	6492.3
35°	5518.7	5530.8	5555.1	5587.4	5627.8	5672.2	5744.8	5761.1	5773.1	5773.1	5757.0
37.5°	4633.9	4629.9	4654.1	4682.4	4706.7	4738.9	4791.5	4803.6	4823.8	4815.8	4799.5
40°	3773.3	3753.2	3745.0	3753.2	3781.4	3769.3	3781.4	3773.3	3773.3	3745.0	3745.0
42.5°	2977.4	2953.3	2937.0	2925.1	2925.1	2896.6	2876.5	2856.4	2844.2	2823.9	2820.0
45°	2294.8	2266.4	2246.3	2238.1	2226.1	2189.7	2165.4	2141.2	2112.9	2104.9	2108.9
47.5°	1781.6	1753.4	1745.2	1725.1	1704.8	1684.7	1668.6	1640.3	1636.1	1620.0	1636.1
50°	1373.6	1365.6	1353.4	1345.3	1333.2	1317.0	1300.9	1284.8	1276.6	1276.6	1280.6
52.5°	1066.6	1070.6	1058.4	1046.3	1038.3	1038.3	1018.0	1014.0	1014.0	997.9	1014.0
55°	816.2	812.0	816.2	808.0	808.0	795.9	795.9	783.7	783.7	771.6	779.7
57.5°	598.0	606.0	598.0	602.0	610.1	598.0	593.8	581.7	589.8	581.7	585.8
60°	464.6	464.6	464.6	460.6	460.6	456.5	456.5	452.5	452.5	444.3	452.5
62.5°	343.4	347.4	347.4	347.4	351.5	347.4	343.4	347.4	343.4	343.4	347.4
65°	226.3	230.3	230.3	226.3	234.3	226.3	230.3	234.3	238.3	234.3	238.3
67.5°	153.5	153.5	157.6	161.6	157.6	161.6	165.6	161.6	165.6	173.8	165.6
70°	113.1	117.2	117.2	113.1	109.1	113.1	109.1	121.2	121.2	121.2	129.2
72.5°	72.7	72.7	68.7	68.7	68.7	68.7	68.7	80.8	72.7	68.7	76.8
75°	40.4	44.4	44.4	32.3	36.4	44.4	32.3	36.4	48.6	40.4	48.6
77.5°	24.3	24.3	24.3	24.3	24.3	24.3	32.3	28.3	28.3	28.3	32.3
80°	20.1	16.1	16.1	12.1	16.1	16.1	16.1	24.3	20.1	20.1	24.3
82.5°	8.1	8.1	4.0	0.0	8.1	8.1	8.1	8.1	8.1	8.1	16.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	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: P248856

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0
2.5°	8265.8	8265.8	8261.8	8253.8	8237.5	8237.5	8233.5	8221.4	8213.4	8209.3	8209.3
5°	8225.4	8209.3	8193.1	8148.7	8148.7	8140.6	8116.5	8100.2	8092.2	8071.9	8063.9
7.5°	8189.1	8140.6	8112.3	8084.1	8047.8	8031.5	8003.2	7991.1	7962.8	7942.7	7930.6
10°	8100.2	8067.9	8031.5	7987.1	7958.8	7926.6	7894.1	7870.0	7833.6	7813.3	7797.2
12.5°	8039.7	7991.1	7958.8	7910.3	7861.9	7833.6	7789.2	7760.9	7724.5	7684.1	7659.8
15°	7983.1	7930.6	7886.2	7833.6	7781.1	7748.8	7696.3	7664.0	7611.5	7571.0	7542.8
17.5°	7898.3	7853.7	7805.3	7740.7	7692.3	7651.9	7595.2	7554.9	7506.4	7453.8	7425.5
20°	7809.3	7756.8	7708.4	7643.7	7595.2	7546.8	7490.2	7445.8	7389.1	7340.7	7308.5
22.5°	7692.3	7631.6	7591.2	7526.5	7469.9	7417.6	7365.0	7312.5	7259.9	7219.5	7183.1
25°	7522.5	7457.8	7413.4	7360.9	7308.5	7268.1	7203.4	7171.1	7118.6	7082.2	7045.7
27.5°	7280.0	7231.6	7191.2	7138.7	7094.3	7062.0	7013.5	6981.2	6936.6	6904.4	6876.1
30°	6924.7	6884.3	6847.8	6795.3	6763.0	6734.8	6690.2	6661.9	6629.7	6593.3	6585.3
32.5°	6447.9	6415.5	6379.2	6342.8	6318.5	6302.4	6266.0	6249.9	6217.6	6197.3	6177.2
35°	5728.7	5700.4	5680.3	5664.2	5656.0	5660.0	5652.1	5668.2	5676.2	5672.2	5676.2
37.5°	4787.5	4771.2	4779.4	4791.5	4831.9	4884.5	4932.8	5005.5	5054.1	5102.6	5147.0
40°	3737.0	3749.2	3781.4	3854.1	3959.2	4076.4	4185.5	4322.9	4460.2	4557.2	4646.0
42.5°	2820.0	2856.4	2937.0	3042.1	3199.8	3373.4	3543.2	3745.0	3910.8	4072.3	4185.5
45°	2121.0	2169.4	2274.5	2420.0	2593.6	2795.7	3009.9	3236.0	3434.1	3599.7	3724.9
47.5°	1652.4	1696.8	1801.9	1955.4	2169.4	2379.6	2601.8	2836.1	3042.1	3203.8	3312.8
50°	1304.9	1361.4	1454.4	1616.0	1830.2	2052.4	2282.7	2512.8	2706.9	2844.2	2941.2
52.5°	1026.2	1078.7	1167.5	1337.3	1555.5	1777.6	1991.7	2218.0	2387.6	2521.0	2585.7
55°	795.9	844.4	937.2	1078.7	1284.8	1502.9	1717.0	1911.0	2068.5	2165.4	2226.1
57.5°	606.0	642.4	707.1	848.4	1034.3	1236.2	1418.1	1612.0	1733.2	1801.9	1842.2
60°	460.6	488.9	557.6	666.7	836.3	1010.0	1163.5	1309.0	1406.0	1462.5	1502.9
62.5°	347.4	379.8	428.2	521.2	650.4	791.9	921.1	1030.2	1111.0	1147.4	1175.7
65°	238.3	262.6	299.0	371.7	480.7	581.7	682.8	763.6	816.2	856.6	872.7
67.5°	177.8	193.9	214.2	270.7	347.4	428.2	496.9	553.4	610.1	626.3	654.5
70°	133.4	145.5	165.6	206.0	250.4	307.0	363.7	395.9	436.3	464.6	472.8
72.5°	84.8	88.8	109.1	133.4	169.6	206.0	242.5	270.7	295.0	311.1	319.1
75°	48.6	72.7	72.7	96.9	121.2	137.4	161.6	181.8	193.9	206.0	206.0
77.5°	32.3	44.4	48.6	60.5	72.7	93.0	113.1	125.2	137.4	141.3	141.3
80°	28.3	32.3	32.3	44.4	52.5	68.7	80.8	84.8	93.0	96.9	105.1
82.5°	12.1	16.1	20.1	32.3	36.4	36.4	48.6	52.5	60.5	64.7	64.7
85°	4.0	8.1	8.1	12.1	20.1	24.3	28.3	32.3	36.4	36.4	40.4
87.5°	4.0	4.0	0.0	4.0	8.1	8.1	16.1	16.1	16.1	24.3	24.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248856

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0
2.5°	8201.3	8205.3	8189.1	8185.2	8177.0	8181.0	8189.1
5°	8051.8	8055.8	8039.7	8023.5	8023.5	8019.4	8023.5
7.5°	7910.3	7914.4	7890.2	7882.0	7865.9	7870.0	7870.0
10°	7768.9	7768.9	7732.7	7728.5	7716.4	7712.4	7712.4
12.5°	7631.6	7619.4	7591.2	7575.0	7583.2	7558.9	7558.9
15°	7510.3	7490.2	7453.8	7441.7	7421.5	7413.4	7413.4
17.5°	7385.1	7369.0	7336.7	7312.5	7288.2	7284.2	7288.2
20°	7263.9	7247.8	7207.4	7191.2	7171.1	7171.1	7163.0
22.5°	7142.7	7126.6	7090.3	7078.2	7049.9	7049.9	7053.9
25°	7017.5	7005.3	6964.9	6956.9	6952.9	6936.6	6944.8
27.5°	6847.8	6839.7	6807.4	6795.3	6779.2	6775.2	6783.2
30°	6536.7	6524.6	6500.5	6488.3	6460.1	6464.0	6472.0
32.5°	6148.9	6132.8	6100.4	6088.2	6064.1	6056.0	6060.0
35°	5664.2	5652.1	5623.8	5623.8	5599.5	5591.4	5599.5
37.5°	5171.3	5183.3	5171.3	5183.3	5171.3	5167.1	5171.3
40°	4706.7	4751.1	4759.1	4803.6	4787.5	4811.6	4807.6
42.5°	4262.2	4334.9	4363.3	4399.6	4391.6	4407.7	4419.8
45°	3813.7	3874.4	3902.7	3927.0	3930.9	3939.1	3943.1
47.5°	3389.5	3438.1	3442.0	3470.3	3466.3	3466.3	3478.5
50°	2993.7	3026.0	3034.0	3054.3	3038.1	3030.0	3034.0
52.5°	2626.1	2658.3	2650.2	2658.3	2638.2	2630.1	2634.0
55°	2250.2	2266.4	2266.4	2266.4	2242.3	2242.3	2242.3
57.5°	1866.4	1870.6	1862.5	1866.4	1862.5	1838.2	1834.2
60°	1515.1	1515.1	1510.9	1515.1	1502.9	1490.8	1490.8
62.5°	1183.7	1191.8	1207.9	1191.8	1183.7	1191.8	1179.7
65°	884.8	901.0	896.8	905.0	901.0	901.0	892.8
67.5°	666.7	670.7	674.6	678.8	678.8	678.8	678.8
70°	488.9	501.0	496.9	496.9	496.9	496.9	521.2
72.5°	327.3	343.4	339.4	347.4	347.4	355.5	347.4
75°	222.2	238.3	230.3	242.5	238.3	230.3	250.4
77.5°	149.5	157.6	161.6	165.6	161.6	157.6	161.6
80°	105.1	113.1	109.1	113.1	113.1	113.1	117.2
82.5°	64.7	76.8	72.7	76.8	72.7	76.8	76.8
85°	44.4	48.6	40.4	48.6	44.4	44.4	52.5
87.5°	28.3	24.3	24.3	28.3	24.3	28.3	24.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)