

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: P248748

Luminaire Tested: **LD8B200D010 ER8B2009727 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248748
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 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14928.0 lumens
Efficiency: N/A
Efficacy: 66.9 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

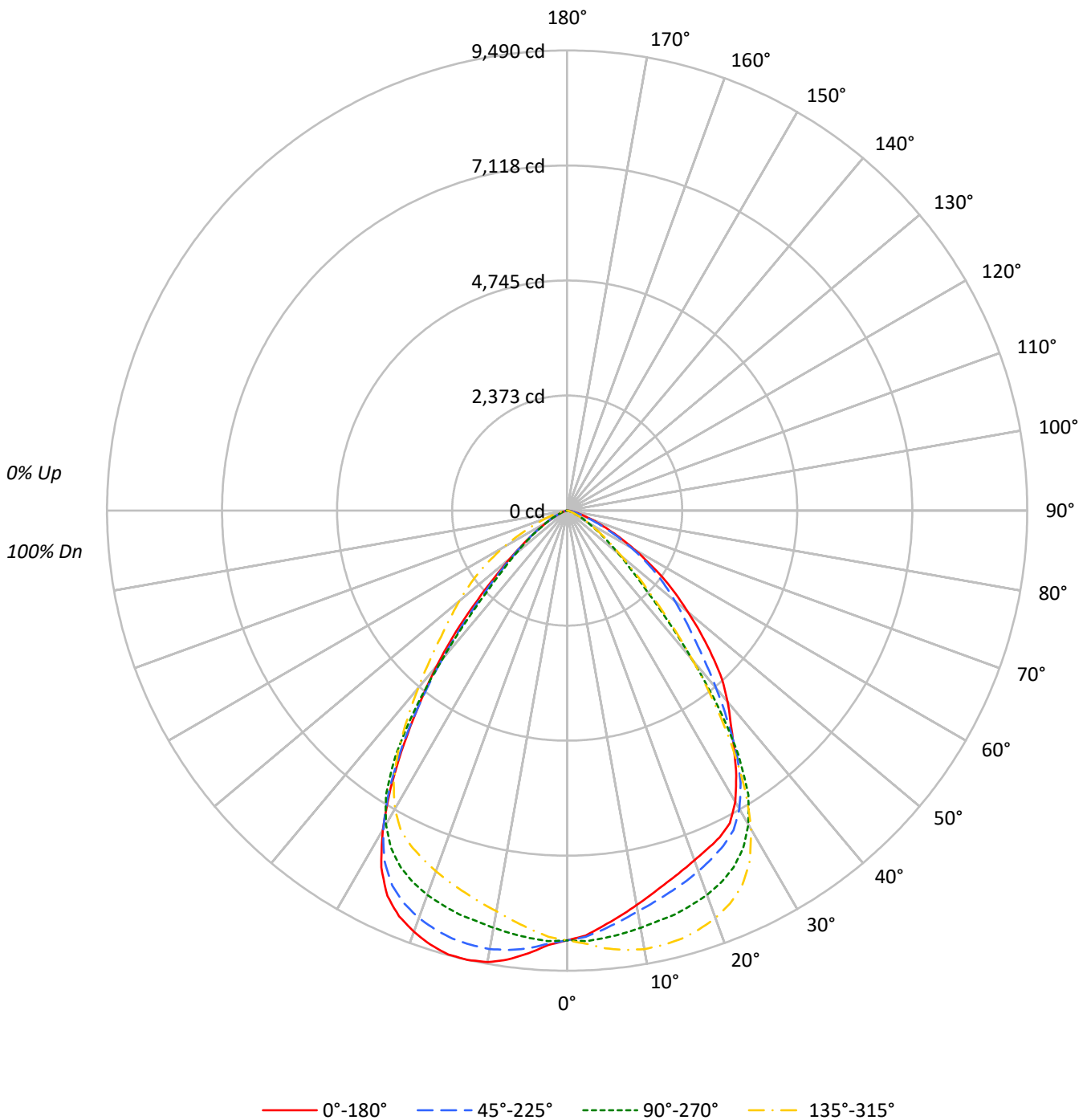
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	843.5	5.7
10°-20°	2442.7	16.4
20°-30°	3698.7	24.8
30°-40°	3707.0	24.8
40°-50°	2327.8	15.6
50°-60°	1240.5	8.3
60°-70°	510.1	3.4
70°-80°	134.8	0.9
80°-90°	22.8	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°	6984.9	46.8
0°-40°	10692.0	71.6
0°-60°	14260.3	95.5
0°-90°	14928.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14928.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8862	8862	8862	8862	8862	
5°	8594	8849	9165	8849	8594	810
15°	7940	8620	9477	8620	7940	2246
25°	7439	8118	8771	8118	7439	3412
35°	5998	6166	5850	6166	5998	3758
45°	4224	2259	2614	2259	4224	3248
55°	2402	835	883	835	2402	2141
65°	956	255	234	255	956	992
75°	268	52	43	52	268	304
85°	56	0	4	0	56	62
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°	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3
2.5°	8771.4	8762.7	8758.4	8767.2	8771.4	8788.7	8784.4	8793.0	8793.0	8797.4	8806.0
5°	8594.0	8589.6	8594.0	8594.0	8611.3	8628.6	8624.3	8637.3	8645.9	8667.6	8676.2
7.5°	8429.6	8429.6	8425.2	8442.5	8451.2	8477.2	8472.7	8494.5	8507.5	8529.0	8559.3
10°	8260.8	8260.8	8265.1	8278.1	8282.5	8321.3	8321.3	8351.6	8368.9	8390.6	8429.6
12.5°	8096.4	8096.4	8122.4	8113.7	8130.9	8161.2	8174.2	8204.5	8230.5	8273.8	8312.8
15°	7940.5	7940.5	7949.3	7970.8	7983.8	8022.8	8044.4	8079.1	8109.4	8152.7	8209.0
17.5°	7806.4	7802.1	7806.4	7832.4	7858.4	7893.0	7910.3	7953.5	7983.8	8040.1	8092.1
20°	7672.3	7681.0	7681.0	7702.6	7719.9	7763.1	7780.4	7828.1	7862.7	7914.5	7975.3
22.5°	7555.5	7551.2	7551.2	7581.5	7594.5	7633.3	7650.6	7693.8	7732.9	7776.1	7832.4
25°	7438.6	7429.9	7447.3	7451.6	7460.2	7503.4	7516.4	7546.7	7585.7	7624.7	7681.0
27.5°	7265.5	7256.9	7261.2	7278.5	7291.5	7326.0	7334.8	7365.0	7395.3	7429.9	7477.6
30°	6932.2	6923.7	6919.4	6949.7	6962.7	6988.5	7001.5	7053.5	7062.1	7101.1	7135.6
32.5°	6490.9	6486.6	6495.3	6521.1	6534.1	6568.9	6586.2	6616.4	6638.0	6659.7	6694.3
35°	5997.7	5988.9	5997.7	6023.7	6023.7	6053.9	6066.9	6079.8	6075.5	6079.8	6071.2
37.5°	5539.0	5534.6	5539.0	5551.8	5539.0	5551.8	5539.0	5513.0	5465.5	5413.4	5361.4
40°	5149.5	5153.8	5127.9	5145.2	5097.5	5088.9	5041.4	4976.3	4881.2	4777.4	4630.3
42.5°	4734.1	4721.1	4703.8	4712.4	4673.6	4643.1	4565.3	4483.1	4361.9	4188.9	4011.3
45°	4223.5	4219.2	4210.5	4206.2	4180.2	4149.9	4084.9	3989.8	3855.7	3678.2	3466.1
47.5°	3725.8	3712.8	3712.8	3717.1	3686.8	3682.5	3630.5	3548.4	3431.6	3258.4	3037.7
50°	3249.7	3245.4	3254.2	3271.4	3249.7	3241.2	3206.6	3150.3	3046.5	2899.4	2691.5
52.5°	2821.3	2817.1	2825.8	2847.3	2838.6	2847.3	2812.8	2769.5	2700.2	2557.4	2375.7
55°	2401.7	2401.7	2401.7	2427.5	2427.5	2427.5	2410.2	2384.4	2319.4	2215.6	2046.9
57.5°	1964.6	1968.9	1994.9	1999.2	1994.9	2003.6	1999.2	1973.2	1930.1	1856.5	1726.6
60°	1596.8	1596.8	1609.8	1622.8	1618.4	1622.8	1622.8	1609.8	1566.5	1506.0	1402.1
62.5°	1263.5	1276.5	1267.8	1276.5	1293.8	1276.5	1267.8	1259.3	1229.0	1190.0	1103.4
65°	956.3	965.0	965.0	969.3	960.6	965.0	947.7	934.7	917.5	874.2	817.9
67.5°	727.1	727.1	727.1	727.1	722.6	718.3	714.1	701.1	670.8	653.5	592.8
70°	558.2	532.2	532.2	532.2	532.2	536.7	523.7	506.4	497.7	467.4	424.1
72.5°	372.1	380.8	372.1	372.1	363.5	367.8	350.5	341.8	333.3	316.0	290.0
75°	268.2	246.7	255.2	259.7	246.7	255.2	238.0	220.7	220.7	207.7	194.7
77.5°	173.1	168.9	173.1	177.4	173.1	168.9	160.1	151.4	151.4	147.1	134.1
80°	125.6	121.1	121.1	121.1	116.8	121.1	112.6	112.6	103.8	99.6	90.8
82.5°	82.3	82.3	77.8	82.3	77.8	82.3	69.3	69.3	69.3	64.8	56.3
85°	56.3	47.6	47.6	52.0	43.3	52.0	47.6	43.3	39.0	39.0	34.6
87.5°	26.0	30.3	26.0	30.3	26.0	26.0	30.3	26.0	26.0	17.3	17.3
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°	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3
2.5°	8819.0	8823.3	8823.3	8840.7	8849.3	8853.6	8853.6	8888.3	8875.3	8884.0	8892.6
5°	8693.6	8719.4	8728.2	8728.2	8775.7	8793.0	8810.3	8849.3	8853.6	8879.6	8909.8
7.5°	8572.3	8602.6	8620.0	8658.9	8689.2	8719.4	8771.4	8797.4	8823.3	8858.0	8896.8
10°	8455.5	8490.2	8524.8	8555.0	8602.6	8641.6	8676.2	8736.7	8767.2	8814.7	8866.6
12.5°	8343.1	8390.6	8420.9	8472.7	8524.8	8559.3	8611.3	8667.6	8715.2	8762.7	8823.3
15°	8243.5	8299.8	8334.3	8390.6	8446.9	8494.5	8550.8	8620.0	8654.6	8710.9	8767.2
17.5°	8135.2	8196.0	8239.2	8291.1	8360.4	8412.2	8459.9	8529.0	8572.3	8632.9	8697.9
20°	8022.8	8083.4	8135.2	8187.2	8256.5	8308.3	8364.6	8433.9	8481.5	8542.0	8594.0
22.5°	7888.7	7945.0	8001.1	8061.7	8130.9	8174.2	8239.2	8299.8	8351.6	8407.9	8459.9
25°	7715.6	7784.9	7828.1	7884.3	7940.5	7988.1	8057.4	8117.9	8161.2	8213.2	8260.8
27.5°	7512.2	7564.2	7598.7	7646.3	7702.6	7745.9	7797.7	7858.4	7901.7	7949.3	7983.8
30°	7165.9	7213.7	7243.9	7278.5	7334.8	7373.8	7417.1	7473.2	7503.4	7538.2	7568.5
32.5°	6711.5	6750.6	6767.8	6793.8	6832.8	6871.7	6906.4	6954.0	6967.0	6988.5	6988.5
35°	6053.9	6062.5	6058.2	6066.9	6084.2	6105.8	6136.1	6166.3	6183.6	6183.6	6170.8
37.5°	5283.6	5231.8	5175.5	5132.2	5119.2	5110.5	5127.9	5140.7	5158.2	5166.8	5145.2
40°	4483.1	4366.3	4240.7	4128.2	4050.3	4015.8	4002.8	4011.3	4011.3	4041.6	4041.6
42.5°	3795.1	3613.2	3427.3	3258.4	3145.9	3059.5	3020.5	3020.5	3024.7	3046.5	3059.5
45°	3223.9	2994.5	2778.1	2592.1	2436.3	2323.7	2271.9	2258.9	2254.6	2263.1	2293.4
47.5°	2786.8	2548.8	2323.7	2094.5	1930.1	1817.5	1769.9	1752.5	1735.2	1752.5	1756.9
50°	2445.0	2198.3	1960.3	1730.9	1557.8	1458.2	1397.7	1371.7	1367.4	1367.4	1376.1
52.5°	2133.3	1904.0	1666.1	1432.4	1250.5	1155.4	1099.1	1086.1	1068.9	1086.1	1086.1
55°	1839.0	1609.8	1376.1	1155.4	1003.9	904.5	852.5	835.2	826.5	839.5	839.5
57.5°	1519.0	1324.1	1107.9	908.7	757.3	688.1	649.1	627.5	623.0	631.8	623.0
60°	1246.3	1081.9	895.7	714.1	597.2	523.7	493.4	484.7	475.9	484.7	484.7
62.5°	986.6	848.2	696.6	558.2	458.6	406.8	372.1	372.1	367.8	367.8	372.1
65°	731.3	623.0	514.9	398.1	320.3	281.2	255.2	255.2	251.0	255.2	251.0
67.5°	532.2	458.6	372.1	290.0	229.4	207.7	190.4	177.4	186.1	177.4	173.1
70°	389.5	328.8	268.2	220.7	177.4	155.9	142.8	138.4	129.8	129.8	129.8
72.5°	259.7	220.7	181.7	142.8	116.8	95.1	90.8	82.3	73.6	77.8	86.6
75°	173.1	147.1	129.8	103.8	77.8	77.8	52.0	52.0	43.3	52.0	39.0
77.5°	121.1	99.6	77.8	64.8	52.0	47.6	34.6	34.6	30.3	30.3	30.3
80°	86.6	73.6	56.3	47.6	34.6	34.6	30.3	26.0	21.6	21.6	26.0
82.5°	52.0	39.0	39.0	34.6	21.6	17.3	13.0	17.3	8.7	8.7	8.7
85°	30.3	26.0	21.6	13.0	8.7	8.7	4.3	0.0	4.3	4.3	0.0
87.5°	17.3	8.7	8.7	4.3	0.0	4.3	4.3	0.0	0.0	0.0	8.7
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°	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3
2.5°	8914.3	8909.8	8918.6	8918.6	8944.6	8940.1	8953.1	8953.1	8944.6	8948.8	8966.1
5°	8944.6	8957.6	8983.4	9005.1	9044.0	9061.4	9083.0	9104.7	9109.0	9122.0	9135.0
7.5°	8944.6	8987.9	9018.1	9057.0	9109.0	9139.2	9186.8	9225.8	9243.1	9264.6	9290.6
10°	8927.1	8970.4	9026.7	9070.0	9135.0	9182.5	9230.1	9290.6	9316.7	9351.2	9385.9
12.5°	8892.6	8940.1	9000.7	9057.0	9130.5	9173.8	9234.4	9290.6	9329.7	9377.2	9416.2
15°	8840.7	8896.8	8953.1	9009.4	9087.2	9139.2	9195.5	9260.4	9299.4	9351.2	9385.9
17.5°	8758.4	8819.0	8871.0	8922.8	8996.4	9057.0	9109.0	9169.5	9208.5	9251.8	9299.4
20°	8658.9	8715.2	8771.4	8814.7	8888.3	8940.1	8996.4	9052.7	9083.0	9091.7	9165.3
22.5°	8533.5	8572.3	8615.6	8684.9	8728.2	8775.7	8827.7	8879.6	8909.8	8957.6	8983.4
25°	8325.6	8364.6	8412.2	8442.5	8494.5	8533.5	8585.3	8641.6	8658.9	8693.6	8719.4
27.5°	8035.8	8057.4	8079.1	8104.9	8135.2	8156.9	8187.2	8213.2	8230.5	8247.8	8265.1
30°	7577.0	7577.0	7577.0	7559.7	7572.7	7585.7	7590.0	7585.7	7585.7	7581.5	7581.5
32.5°	6971.2	6936.7	6897.7	6863.1	6850.1	6832.8	6824.1	6811.1	6789.6	6776.6	6780.8
35°	6153.3	6075.5	6027.9	5984.7	5950.1	5924.1	5911.1	5898.1	5893.8	5876.5	5859.1
37.5°	5132.2	5075.9	5041.4	5015.4	4985.1	4959.1	4963.3	4967.8	4980.6	4972.1	4976.3
40°	4050.3	4037.3	4050.3	4020.1	4011.3	4020.1	4041.6	4072.1	4089.3	4106.6	4136.9
42.5°	3081.0	3102.6	3133.0	3133.0	3145.9	3163.3	3189.1	3236.9	3262.7	3293.0	3327.7
45°	2319.4	2345.4	2384.4	2397.2	2406.0	2427.5	2458.0	2496.8	2514.1	2540.1	2570.4
47.5°	1787.2	1804.5	1826.0	1847.8	1869.3	1878.0	1908.3	1908.3	1930.1	1947.3	1955.9
50°	1393.4	1410.7	1427.9	1440.9	1449.7	1462.7	1471.2	1484.2	1488.5	1497.2	1501.5
52.5°	1090.4	1112.1	1112.1	1120.7	1133.7	1146.7	1142.4	1146.7	1151.0	1151.0	1164.0
55°	852.5	852.5	865.5	865.5	874.2	869.7	874.2	874.2	874.2	874.2	878.5
57.5°	636.0	640.5	653.5	644.8	640.5	649.1	640.5	649.1	644.8	653.5	640.5
60°	488.9	488.9	493.4	493.4	497.7	497.7	497.7	493.4	493.4	488.9	488.9
62.5°	367.8	372.1	376.5	372.1	372.1	372.1	367.8	367.8	363.5	359.1	359.1
65°	246.7	242.4	251.0	242.4	246.7	246.7	242.4	246.7	233.7	238.0	233.7
67.5°	177.4	173.1	168.9	173.1	168.9	164.4	164.4	168.9	173.1	160.1	160.1
70°	116.8	121.1	116.8	121.1	125.6	125.6	121.1	116.8	121.1	112.6	116.8
72.5°	73.6	73.6	73.6	73.6	73.6	77.8	77.8	77.8	69.3	69.3	64.8
75°	34.6	47.6	39.0	34.6	47.6	47.6	43.3	43.3	39.0	39.0	39.0
77.5°	34.6	26.0	26.0	26.0	26.0	26.0	26.0	26.0	21.6	26.0	21.6
80°	17.3	17.3	17.3	13.0	17.3	17.3	21.6	17.3	17.3	13.0	21.6
82.5°	8.7	8.7	8.7	0.0	4.3	8.7	8.7	4.3	8.7	8.7	4.3
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: P248748

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3
2.5°	8961.8	8957.6	8961.8	8966.1	8961.8	8957.6	8961.8	8966.1	8948.8	8944.6	8953.1
5°	9152.3	9152.3	9160.8	9165.3	9160.8	9152.3	9152.3	9135.0	9122.0	9109.0	9104.7
7.5°	9316.7	9325.4	9333.9	9338.2	9333.9	9325.4	9316.7	9290.6	9264.6	9243.1	9225.8
10°	9416.2	9429.2	9446.5	9455.0	9446.5	9429.2	9416.2	9385.9	9351.2	9316.7	9290.6
12.5°	9459.5	9472.5	9494.1	9489.8	9494.1	9472.5	9459.5	9416.2	9377.2	9329.7	9290.6
15°	9429.2	9446.5	9468.0	9476.8	9468.0	9446.5	9429.2	9385.9	9351.2	9299.4	9260.4
17.5°	9333.9	9359.9	9372.9	9385.9	9372.9	9359.9	9333.9	9299.4	9251.8	9208.5	9169.5
20°	9204.1	9221.5	9238.8	9243.1	9238.8	9221.5	9204.1	9165.3	9091.7	9083.0	9052.7
22.5°	9018.1	9031.1	9070.0	9057.0	9070.0	9031.1	9018.1	8983.4	8957.6	8909.8	8879.6
25°	8749.7	8762.7	8767.2	8771.4	8767.2	8762.7	8749.7	8719.4	8693.6	8658.9	8641.6
27.5°	8286.8	8286.8	8295.3	8299.8	8295.3	8286.8	8286.8	8265.1	8247.8	8230.5	8213.2
30°	7585.7	7585.7	7585.7	7607.5	7585.7	7585.7	7585.7	7581.5	7581.5	7585.7	7585.7
32.5°	6776.6	6767.8	6759.3	6767.8	6759.3	6767.8	6776.6	6780.8	6776.6	6789.6	6811.1
35°	5859.1	5854.8	5867.8	5850.5	5867.8	5854.8	5859.1	5859.1	5876.5	5893.8	5898.1
37.5°	4980.6	4972.1	4989.4	4972.1	4989.4	4972.1	4980.6	4976.3	4972.1	4980.6	4967.8
40°	4145.6	4154.2	4154.2	4188.9	4154.2	4154.2	4145.6	4136.9	4106.6	4089.3	4072.1
42.5°	3345.0	3371.0	3362.3	3388.3	3362.3	3371.0	3345.0	3327.7	3293.0	3262.7	3236.9
45°	2587.7	2605.1	2605.1	2613.7	2605.1	2605.1	2587.7	2570.4	2540.1	2514.1	2496.8
47.5°	1986.2	1986.2	1986.2	1990.6	1986.2	1986.2	1986.2	1955.9	1947.3	1930.1	1908.3
50°	1510.2	1514.5	1519.0	1523.2	1519.0	1514.5	1510.2	1501.5	1497.2	1488.5	1484.2
52.5°	1159.7	1164.0	1155.4	1164.0	1155.4	1164.0	1159.7	1164.0	1151.0	1151.0	1146.7
55°	878.5	874.2	878.5	882.7	878.5	874.2	878.5	878.5	874.2	874.2	874.2
57.5°	644.8	636.0	636.0	636.0	636.0	636.0	644.8	640.5	653.5	644.8	649.1
60°	480.4	484.7	484.7	488.9	484.7	484.7	480.4	488.9	488.9	493.4	493.4
62.5°	354.8	367.8	359.1	367.8	359.1	367.8	354.8	359.1	359.1	363.5	367.8
65°	229.4	229.4	229.4	233.7	229.4	229.4	229.4	233.7	238.0	233.7	246.7
67.5°	155.9	160.1	168.9	164.4	168.9	160.1	155.9	160.1	160.1	173.1	168.9
70°	125.6	112.6	112.6	125.6	112.6	112.6	125.6	116.8	112.6	121.1	116.8
72.5°	73.6	64.8	73.6	73.6	73.6	64.8	73.6	64.8	69.3	69.3	77.8
75°	39.0	34.6	30.3	43.3	30.3	34.6	39.0	39.0	39.0	39.0	43.3
77.5°	26.0	21.6	30.3	30.3	30.3	21.6	26.0	21.6	26.0	21.6	26.0
80°	13.0	17.3	13.0	21.6	13.0	17.3	13.0	21.6	13.0	17.3	17.3
82.5°	4.3	8.7	8.7	8.7	8.7	8.7	4.3	4.3	8.7	8.7	4.3
85°	0.0	8.7	4.3	4.3	4.3	8.7	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	0.0	0.0	4.3	0.0	0.0	4.3	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: P248748

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3
2.5°	8953.1	8940.1	8944.6	8918.6	8918.6	8909.8	8914.3	8892.6	8884.0	8875.3	8888.3
5°	9083.0	9061.4	9044.0	9005.1	8983.4	8957.6	8944.6	8909.8	8879.6	8853.6	8849.3
7.5°	9186.8	9139.2	9109.0	9057.0	9018.1	8987.9	8944.6	8896.8	8858.0	8823.3	8797.4
10°	9230.1	9182.5	9135.0	9070.0	9026.7	8970.4	8927.1	8866.6	8814.7	8767.2	8736.7
12.5°	9234.4	9173.8	9130.5	9057.0	9000.7	8940.1	8892.6	8823.3	8762.7	8715.2	8667.6
15°	9195.5	9139.2	9087.2	9009.4	8953.1	8896.8	8840.7	8767.2	8710.9	8654.6	8620.0
17.5°	9109.0	9057.0	8996.4	8922.8	8871.0	8819.0	8758.4	8697.9	8632.9	8572.3	8529.0
20°	8996.4	8940.1	8888.3	8814.7	8771.4	8715.2	8658.9	8594.0	8542.0	8481.5	8433.9
22.5°	8827.7	8775.7	8728.2	8684.9	8615.6	8572.3	8533.5	8459.9	8407.9	8351.6	8299.8
25°	8585.3	8533.5	8494.5	8442.5	8412.2	8364.6	8325.6	8260.8	8213.2	8161.2	8117.9
27.5°	8187.2	8156.9	8135.2	8104.9	8079.1	8057.4	8035.8	7983.8	7949.3	7901.7	7858.4
30°	7590.0	7585.7	7572.7	7559.7	7577.0	7577.0	7577.0	7568.5	7538.2	7503.4	7473.2
32.5°	6824.1	6832.8	6850.1	6863.1	6897.7	6936.7	6971.2	6988.5	6988.5	6967.0	6954.0
35°	5911.1	5924.1	5950.1	5984.7	6027.9	6075.5	6153.3	6170.8	6183.6	6183.6	6166.3
37.5°	4963.3	4959.1	4985.1	5015.4	5041.4	5075.9	5132.2	5145.2	5166.8	5158.2	5140.7
40°	4041.6	4020.1	4011.3	4020.1	4050.3	4037.3	4050.3	4041.6	4041.6	4011.3	4011.3
42.5°	3189.1	3163.3	3145.9	3133.0	3133.0	3102.6	3081.0	3059.5	3046.5	3024.7	3020.5
45°	2458.0	2427.5	2406.0	2397.2	2384.4	2345.4	2319.4	2293.4	2263.1	2254.6	2258.9
47.5°	1908.3	1878.0	1869.3	1847.8	1826.0	1804.5	1787.2	1756.9	1752.5	1735.2	1752.5
50°	1471.2	1462.7	1449.7	1440.9	1427.9	1410.7	1393.4	1376.1	1367.4	1367.4	1371.7
52.5°	1142.4	1146.7	1133.7	1120.7	1112.1	1112.1	1090.4	1086.1	1086.1	1068.9	1086.1
55°	874.2	869.7	874.2	865.5	865.5	852.5	852.5	839.5	839.5	826.5	835.2
57.5°	640.5	649.1	640.5	644.8	653.5	640.5	636.0	623.0	631.8	623.0	627.5
60°	497.7	497.7	497.7	493.4	493.4	488.9	488.9	484.7	484.7	475.9	484.7
62.5°	367.8	372.1	372.1	372.1	376.5	372.1	367.8	372.1	367.8	367.8	372.1
65°	242.4	246.7	246.7	242.4	251.0	242.4	246.7	251.0	255.2	251.0	255.2
67.5°	164.4	164.4	168.9	173.1	168.9	173.1	177.4	173.1	177.4	186.1	177.4
70°	121.1	125.6	125.6	121.1	116.8	121.1	116.8	129.8	129.8	129.8	138.4
72.5°	77.8	77.8	73.6	73.6	73.6	73.6	73.6	86.6	77.8	73.6	82.3
75°	43.3	47.6	47.6	34.6	39.0	47.6	34.6	39.0	52.0	43.3	52.0
77.5°	26.0	26.0	26.0	26.0	26.0	26.0	34.6	30.3	30.3	30.3	34.6
80°	21.6	17.3	17.3	13.0	17.3	17.3	17.3	26.0	21.6	21.6	26.0
82.5°	8.7	8.7	4.3	0.0	8.7	8.7	8.7	8.7	8.7	8.7	17.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	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: P248748

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3
2.5°	8853.6	8853.6	8849.3	8840.7	8823.3	8823.3	8819.0	8806.0	8797.4	8793.0	8793.0
5°	8810.3	8793.0	8775.7	8728.2	8728.2	8719.4	8693.6	8676.2	8667.6	8645.9	8637.3
7.5°	8771.4	8719.4	8689.2	8658.9	8620.0	8602.6	8572.3	8559.3	8529.0	8507.5	8494.5
10°	8676.2	8641.6	8602.6	8555.0	8524.8	8490.2	8455.5	8429.6	8390.6	8368.9	8351.6
12.5°	8611.3	8559.3	8524.8	8472.7	8420.9	8390.6	8343.1	8312.8	8273.8	8230.5	8204.5
15°	8550.8	8494.5	8446.9	8390.6	8334.3	8299.8	8243.5	8209.0	8152.7	8109.4	8079.1
17.5°	8459.9	8412.2	8360.4	8291.1	8239.2	8196.0	8135.2	8092.1	8040.1	7983.8	7953.5
20°	8364.6	8308.3	8256.5	8187.2	8135.2	8083.4	8022.8	7975.3	7914.5	7862.7	7828.1
22.5°	8239.2	8174.2	8130.9	8061.7	8001.1	7945.0	7888.7	7832.4	7776.1	7732.9	7693.8
25°	8057.4	7988.1	7940.5	7884.3	7828.1	7784.9	7715.6	7681.0	7624.7	7585.7	7546.7
27.5°	7797.7	7745.9	7702.6	7646.3	7598.7	7564.2	7512.2	7477.6	7429.9	7395.3	7365.0
30°	7417.1	7373.8	7334.8	7278.5	7243.9	7213.7	7165.9	7135.6	7101.1	7062.1	7053.5
32.5°	6906.4	6871.7	6832.8	6793.8	6767.8	6750.6	6711.5	6694.3	6659.7	6638.0	6616.4
35°	6136.1	6105.8	6084.2	6066.9	6058.2	6062.5	6053.9	6071.2	6079.8	6075.5	6079.8
37.5°	5127.9	5110.5	5119.2	5132.2	5175.5	5231.8	5283.6	5361.4	5413.4	5465.5	5513.0
40°	4002.8	4015.8	4050.3	4128.2	4240.7	4366.3	4483.1	4630.3	4777.4	4881.2	4976.3
42.5°	3020.5	3059.5	3145.9	3258.4	3427.3	3613.2	3795.1	4011.3	4188.9	4361.9	4483.1
45°	2271.9	2323.7	2436.3	2592.1	2778.1	2994.5	3223.9	3466.1	3678.2	3855.7	3989.8
47.5°	1769.9	1817.5	1930.1	2094.5	2323.7	2548.8	2786.8	3037.7	3258.4	3431.6	3548.4
50°	1397.7	1458.2	1557.8	1730.9	1960.3	2198.3	2445.0	2691.5	2899.4	3046.5	3150.3
52.5°	1099.1	1155.4	1250.5	1432.4	1666.1	1904.0	2133.3	2375.7	2557.4	2700.2	2769.5
55°	852.5	904.5	1003.9	1155.4	1376.1	1609.8	1839.0	2046.9	2215.6	2319.4	2384.4
57.5°	649.1	688.1	757.3	908.7	1107.9	1324.1	1519.0	1726.6	1856.5	1930.1	1973.2
60°	493.4	523.7	597.2	714.1	895.7	1081.9	1246.3	1402.1	1506.0	1566.5	1609.8
62.5°	372.1	406.8	458.6	558.2	696.6	848.2	986.6	1103.4	1190.0	1229.0	1259.3
65°	255.2	281.2	320.3	398.1	514.9	623.0	731.3	817.9	874.2	917.5	934.7
67.5°	190.4	207.7	229.4	290.0	372.1	458.6	532.2	592.8	653.5	670.8	701.1
70°	142.8	155.9	177.4	220.7	268.2	328.8	389.5	424.1	467.4	497.7	506.4
72.5°	90.8	95.1	116.8	142.8	181.7	220.7	259.7	290.0	316.0	333.3	341.8
75°	52.0	77.8	77.8	103.8	129.8	147.1	173.1	194.7	207.7	220.7	220.7
77.5°	34.6	47.6	52.0	64.8	77.8	99.6	121.1	134.1	147.1	151.4	151.4
80°	30.3	34.6	34.6	47.6	56.3	73.6	86.6	90.8	99.6	103.8	112.6
82.5°	13.0	17.3	21.6	34.6	39.0	39.0	52.0	56.3	64.8	69.3	69.3
85°	4.3	8.7	8.7	13.0	21.6	26.0	30.3	34.6	39.0	39.0	43.3
87.5°	4.3	4.3	0.0	4.3	8.7	8.7	17.3	17.3	17.3	26.0	26.0
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: P248748

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3	8862.3
2.5°	8784.4	8788.7	8771.4	8767.2	8758.4	8762.7	8771.4
5°	8624.3	8628.6	8611.3	8594.0	8594.0	8589.6	8594.0
7.5°	8472.7	8477.2	8451.2	8442.5	8425.2	8429.6	8429.6
10°	8321.3	8321.3	8282.5	8278.1	8265.1	8260.8	8260.8
12.5°	8174.2	8161.2	8130.9	8113.7	8122.4	8096.4	8096.4
15°	8044.4	8022.8	7983.8	7970.8	7949.3	7940.5	7940.5
17.5°	7910.3	7893.0	7858.4	7832.4	7806.4	7802.1	7806.4
20°	7780.4	7763.1	7719.9	7702.6	7681.0	7681.0	7672.3
22.5°	7650.6	7633.3	7594.5	7581.5	7551.2	7551.2	7555.5
25°	7516.4	7503.4	7460.2	7451.6	7447.3	7429.9	7438.6
27.5°	7334.8	7326.0	7291.5	7278.5	7261.2	7256.9	7265.5
30°	7001.5	6988.5	6962.7	6949.7	6919.4	6923.7	6932.2
32.5°	6586.2	6568.9	6534.1	6521.1	6495.3	6486.6	6490.9
35°	6066.9	6053.9	6023.7	6023.7	5997.7	5988.9	5997.7
37.5°	5539.0	5551.8	5539.0	5551.8	5539.0	5534.6	5539.0
40°	5041.4	5088.9	5097.5	5145.2	5127.9	5153.8	5149.5
42.5°	4565.3	4643.1	4673.6	4712.4	4703.8	4721.1	4734.1
45°	4084.9	4149.9	4180.2	4206.2	4210.5	4219.2	4223.5
47.5°	3630.5	3682.5	3686.8	3717.1	3712.8	3712.8	3725.8
50°	3206.6	3241.2	3249.7	3271.4	3254.2	3245.4	3249.7
52.5°	2812.8	2847.3	2838.6	2847.3	2825.8	2817.1	2821.3
55°	2410.2	2427.5	2427.5	2427.5	2401.7	2401.7	2401.7
57.5°	1999.2	2003.6	1994.9	1999.2	1994.9	1968.9	1964.6
60°	1622.8	1622.8	1618.4	1622.8	1609.8	1596.8	1596.8
62.5°	1267.8	1276.5	1293.8	1276.5	1267.8	1276.5	1263.5
65°	947.7	965.0	960.6	969.3	965.0	965.0	956.3
67.5°	714.1	718.3	722.6	727.1	727.1	727.1	727.1
70°	523.7	536.7	532.2	532.2	532.2	532.2	558.2
72.5°	350.5	367.8	363.5	372.1	372.1	380.8	372.1
75°	238.0	255.2	246.7	259.7	255.2	246.7	268.2
77.5°	160.1	168.9	173.1	177.4	173.1	168.9	173.1
80°	112.6	121.1	116.8	121.1	121.1	121.1	125.6
82.5°	69.3	82.3	77.8	82.3	77.8	82.3	82.3
85°	47.6	52.0	43.3	52.0	47.6	47.6	56.3
87.5°	30.3	26.0	26.0	30.3	26.0	30.3	26.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)