

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: P249072

Luminaire Tested: **LD8B200D010 ER8B2009727 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249072
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 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14902.0 lumens
Efficiency: N/A
Efficacy: 66.7 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

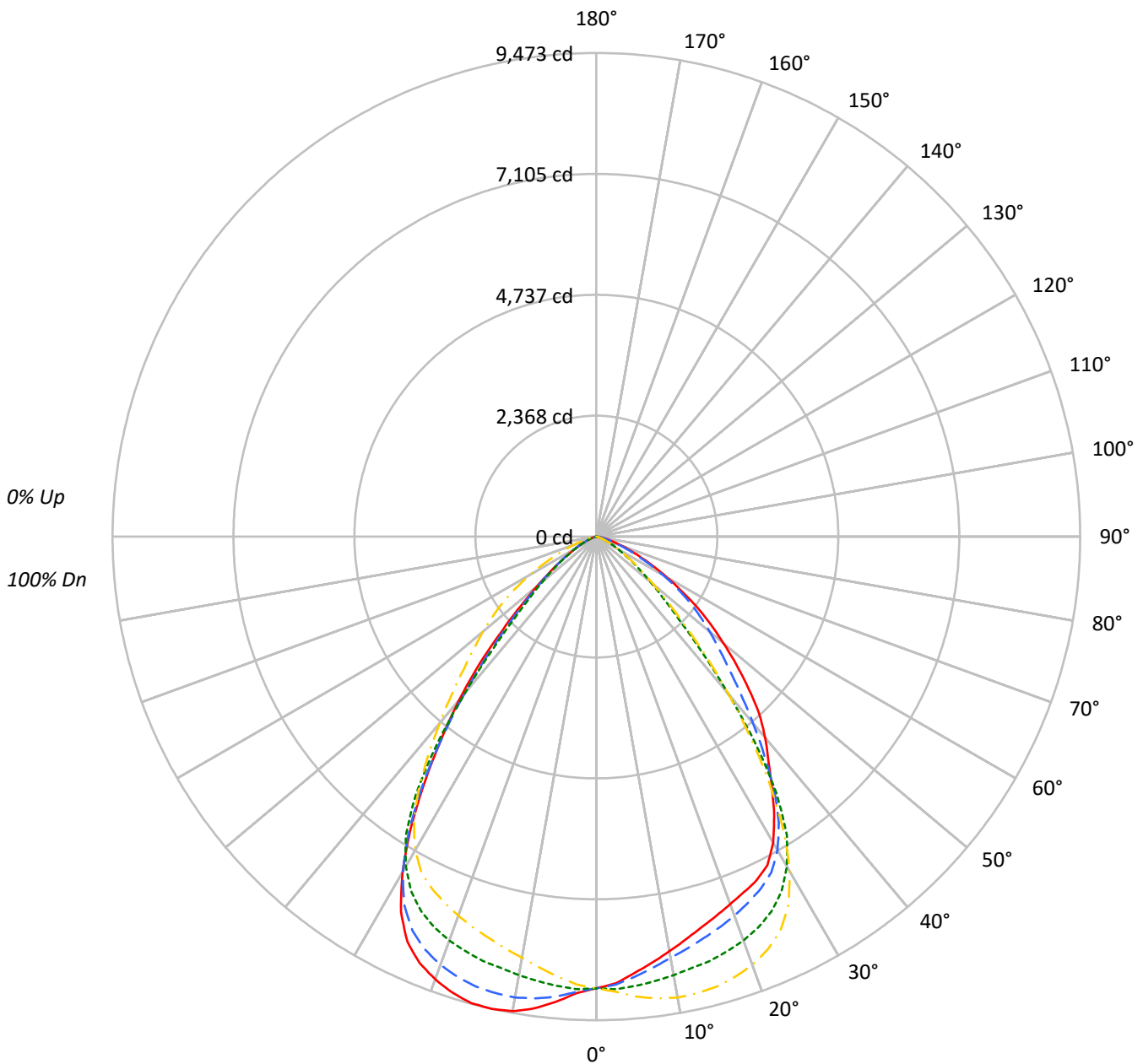
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	842.1	5.7
10°-20°	2438.4	16.4
20°-30°	3692.3	24.8
30°-40°	3700.6	24.8
40°-50°	2323.8	15.6
50°-60°	1238.3	8.3
60°-70°	509.2	3.4
70°-80°	134.5	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°	6972.8	46.8
0°-40°	10673.4	71.6
0°-60°	14235.5	95.5
0°-90°	14902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14902.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8847	8847	8847	8847	8847	
5°	8579	8834	9149	8834	8579	809
15°	7927	8605	9460	8605	7927	2242
25°	7426	8104	8756	8104	7426	3406
35°	5987	6156	5840	6156	5987	3751
45°	4216	2255	2609	2255	4216	3243
55°	2398	834	881	834	2398	2138
65°	955	255	233	255	955	990
75°	268	52	43	52	268	303
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°	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8
2.5°	8756.2	8747.5	8743.2	8751.9	8756.2	8773.4	8769.1	8777.7	8777.7	8782.1	8790.7
5°	8579.1	8574.6	8579.1	8579.1	8596.3	8613.6	8609.3	8622.3	8630.8	8652.5	8661.0
7.5°	8415.0	8415.0	8410.5	8427.8	8436.5	8462.4	8458.0	8479.7	8492.7	8514.2	8544.4
10°	8246.4	8246.4	8250.7	8263.6	8268.1	8306.9	8306.9	8337.1	8354.3	8376.0	8415.0
12.5°	8082.3	8082.3	8108.2	8099.5	8116.8	8147.0	8160.0	8190.2	8216.2	8259.4	8298.3
15°	7926.7	7926.7	7935.4	7956.9	7969.9	8008.9	8030.4	8065.0	8095.3	8138.5	8194.7
17.5°	7792.8	7788.6	7792.8	7818.8	7844.7	7879.2	7896.5	7939.7	7969.9	8026.1	8078.0
20°	7658.9	7667.6	7667.6	7689.2	7706.4	7749.6	7766.9	7814.5	7849.0	7900.7	7961.4
22.5°	7542.3	7538.0	7538.0	7568.3	7581.2	7620.0	7637.2	7680.4	7719.4	7762.6	7818.8
25°	7425.7	7416.9	7434.4	7438.6	7447.2	7490.4	7503.4	7533.6	7572.5	7611.5	7667.6
27.5°	7252.8	7244.3	7248.6	7265.8	7278.8	7313.3	7322.0	7352.2	7382.4	7416.9	7464.6
30°	6920.2	6911.6	6907.4	6937.6	6950.6	6976.3	6989.3	7041.2	7049.8	7088.7	7123.2
32.5°	6479.6	6475.3	6484.0	6509.8	6522.8	6557.4	6574.7	6604.9	6626.4	6648.1	6682.6
35°	5987.2	5978.5	5987.2	6013.2	6013.2	6043.4	6056.4	6069.2	6064.9	6069.2	6060.6
37.5°	5529.4	5524.9	5529.4	5542.2	5529.4	5542.2	5529.4	5503.4	5455.9	5404.0	5352.1
40°	5140.5	5144.8	5119.0	5136.2	5088.6	5080.1	5032.6	4967.7	4872.7	4769.1	4622.2
42.5°	4725.9	4712.9	4695.6	4704.2	4665.4	4635.0	4557.3	4475.3	4354.3	4181.6	4004.3
45°	4216.1	4211.8	4203.1	4198.9	4172.9	4142.7	4077.8	3982.8	3848.9	3671.8	3460.1
47.5°	3719.3	3706.3	3706.3	3710.6	3680.4	3676.1	3624.2	3542.2	3425.6	3252.8	3032.5
50°	3244.0	3239.8	3248.5	3265.7	3244.0	3235.5	3201.0	3144.8	3041.2	2894.3	2686.8
52.5°	2816.4	2812.2	2820.9	2842.4	2833.7	2842.4	2807.9	2764.7	2695.5	2552.9	2371.6
55°	2397.5	2397.5	2397.5	2423.3	2423.3	2423.3	2406.1	2380.3	2315.4	2211.7	2043.3
57.5°	1961.2	1965.5	1991.4	1995.7	1991.4	2000.1	1995.7	1969.7	1926.7	1853.3	1723.6
60°	1594.0	1594.0	1607.0	1620.0	1615.5	1620.0	1620.0	1607.0	1563.8	1503.3	1399.7
62.5°	1261.3	1274.3	1265.6	1274.3	1291.6	1274.3	1265.6	1257.1	1226.9	1187.9	1101.5
65°	954.6	963.3	963.3	967.6	958.9	963.3	946.1	933.1	915.9	872.7	816.5
67.5°	725.8	725.8	725.8	725.8	721.4	717.1	712.8	699.8	669.6	652.4	591.7
70°	557.2	531.3	531.3	531.3	531.3	535.7	522.7	505.5	496.8	466.6	423.4
72.5°	371.4	380.1	371.4	371.4	362.9	367.2	349.9	341.2	332.7	315.4	289.5
75°	267.8	246.3	254.8	259.2	246.3	254.8	237.5	220.3	220.3	207.3	194.3
77.5°	172.8	168.6	172.8	177.1	172.8	168.6	159.8	151.1	151.1	146.9	133.9
80°	125.4	120.9	120.9	120.9	116.6	120.9	112.4	112.4	103.7	99.4	90.7
82.5°	82.1	82.1	77.7	82.1	77.7	82.1	69.2	69.2	69.2	64.7	56.2
85°	56.2	47.5	47.5	51.9	43.2	51.9	47.5	43.2	38.9	38.9	34.5
87.5°	26.0	30.2	26.0	30.2	26.0	26.0	30.2	26.0	26.0	17.2	17.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8
2.5°	8803.6	8807.9	8807.9	8825.3	8833.9	8838.1	8838.1	8872.8	8859.8	8868.5	8877.1
5°	8678.5	8704.2	8713.0	8713.0	8760.4	8777.7	8794.9	8833.9	8838.1	8864.1	8894.3
7.5°	8557.4	8587.6	8605.0	8643.8	8674.0	8704.2	8756.2	8782.1	8807.9	8842.6	8881.3
10°	8440.7	8475.4	8509.9	8540.1	8587.6	8626.5	8661.0	8721.5	8751.9	8799.4	8851.1
12.5°	8328.5	8376.0	8406.2	8458.0	8509.9	8544.4	8596.3	8652.5	8700.0	8747.5	8807.9
15°	8229.2	8285.3	8319.8	8376.0	8432.2	8479.7	8535.9	8605.0	8639.5	8695.7	8751.9
17.5°	8121.0	8181.7	8224.9	8276.6	8345.8	8397.5	8445.2	8514.2	8557.4	8617.8	8682.7
20°	8008.9	8069.3	8121.0	8173.0	8242.1	8293.9	8350.1	8419.2	8466.7	8527.2	8579.1
22.5°	7875.0	7931.2	7987.2	8047.6	8116.8	8160.0	8224.9	8285.3	8337.1	8393.3	8445.2
25°	7702.1	7771.3	7814.5	7870.5	7926.7	7974.2	8043.3	8103.8	8147.0	8198.9	8246.4
27.5°	7499.1	7551.0	7585.5	7633.0	7689.2	7732.4	7784.1	7844.7	7887.9	7935.4	7969.9
30°	7153.4	7201.1	7231.3	7265.8	7322.0	7360.9	7404.1	7460.1	7490.4	7525.0	7555.3
32.5°	6699.9	6738.8	6756.0	6782.0	6820.9	6859.7	6894.4	6941.8	6954.8	6976.3	6976.3
35°	6043.4	6051.9	6047.7	6056.4	6073.6	6095.1	6125.4	6155.6	6172.8	6172.8	6160.0
37.5°	5274.4	5222.7	5166.5	5123.3	5110.3	5101.6	5119.0	5131.8	5149.2	5157.8	5136.2
40°	4475.3	4358.7	4233.3	4121.0	4043.3	4008.8	3995.8	4004.3	4004.3	4034.6	4034.6
42.5°	3788.5	3606.9	3421.3	3252.8	3140.4	3054.1	3015.2	3015.2	3019.5	3041.2	3054.1
45°	3218.3	2989.3	2773.2	2587.6	2432.0	2319.6	2267.9	2254.9	2250.7	2259.2	2289.4
47.5°	2781.9	2544.4	2319.6	2090.8	1926.7	1814.3	1766.8	1749.4	1732.2	1749.4	1753.9
50°	2440.7	2194.5	1956.9	1727.9	1555.1	1455.7	1395.2	1369.3	1365.0	1365.0	1373.7
52.5°	2129.6	1900.7	1663.2	1429.9	1248.4	1153.4	1097.2	1084.3	1067.0	1084.3	1084.3
55°	1835.8	1607.0	1373.7	1153.4	1002.1	902.9	851.0	833.7	825.0	838.0	838.0
57.5°	1516.3	1321.8	1105.9	907.2	756.0	686.9	647.9	626.4	622.0	630.7	622.0
60°	1244.1	1080.0	894.2	712.8	596.2	522.7	492.5	483.8	475.1	483.8	483.8
62.5°	984.9	846.7	695.4	557.2	457.8	406.1	371.4	371.4	367.2	367.2	371.4
65°	730.1	622.0	514.0	397.4	319.7	280.8	254.8	254.8	250.5	254.8	250.5
67.5°	531.3	457.8	371.4	289.5	229.0	207.3	190.1	177.1	185.8	177.1	172.8
70°	388.9	328.2	267.8	220.3	177.1	155.6	142.6	138.2	129.6	129.6	129.6
72.5°	259.2	220.3	181.4	142.6	116.6	94.9	90.7	82.1	73.4	77.7	86.4
75°	172.8	146.9	129.6	103.7	77.7	77.7	51.9	51.9	43.2	51.9	38.9
77.5°	120.9	99.4	77.7	64.7	51.9	47.5	34.5	34.5	30.2	30.2	30.2
80°	86.4	73.4	56.2	47.5	34.5	34.5	30.2	26.0	21.5	21.5	26.0
82.5°	51.9	38.9	38.9	34.5	21.5	17.2	13.0	17.2	8.7	8.7	8.7
85°	30.2	26.0	21.5	13.0	8.7	8.7	4.3	0.0	4.3	4.3	0.0
87.5°	17.2	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°	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8
2.5°	8898.8	8894.3	8903.0	8903.0	8929.0	8924.5	8937.5	8937.5	8929.0	8933.3	8950.5
5°	8929.0	8942.0	8967.8	8989.4	9028.2	9045.6	9067.1	9088.8	9093.1	9106.1	9119.1
7.5°	8929.0	8972.2	9002.4	9041.2	9093.1	9123.3	9170.8	9209.7	9227.0	9248.5	9274.5
10°	8911.6	8954.8	9011.0	9054.2	9119.1	9166.5	9214.0	9274.5	9300.4	9334.9	9369.6
12.5°	8877.1	8924.5	8985.0	9041.2	9114.6	9157.8	9218.3	9274.5	9313.4	9360.9	9399.8
15°	8825.3	8881.3	8937.5	8993.7	9071.4	9123.3	9179.5	9244.2	9283.2	9334.9	9369.6
17.5°	8743.2	8803.6	8855.6	8907.3	8980.7	9041.2	9093.1	9153.6	9192.5	9235.7	9283.2
20°	8643.8	8700.0	8756.2	8799.4	8872.8	8924.5	8980.7	9036.9	9067.1	9075.9	9149.3
22.5°	8518.6	8557.4	8600.6	8669.8	8713.0	8760.4	8812.4	8864.1	8894.3	8942.0	8967.8
25°	8311.1	8350.1	8397.5	8427.8	8479.7	8518.6	8570.4	8626.5	8643.8	8678.5	8704.2
27.5°	8021.8	8043.3	8065.0	8090.8	8121.0	8142.7	8173.0	8198.9	8216.2	8233.4	8250.7
30°	7563.8	7563.8	7563.8	7546.6	7559.5	7572.5	7576.8	7572.5	7572.5	7568.3	7568.3
32.5°	6959.1	6924.6	6885.7	6851.2	6838.2	6820.9	6812.2	6799.2	6777.7	6764.8	6769.0
35°	6142.6	6064.9	6017.4	5974.2	5939.7	5913.8	5900.8	5887.8	5883.6	5866.3	5848.9
37.5°	5123.3	5067.1	5032.6	5006.6	4976.4	4950.4	4954.7	4959.1	4971.9	4963.4	4967.7
40°	4043.3	4030.3	4043.3	4013.0	4004.3	4013.0	4034.6	4065.0	4082.2	4099.5	4129.7
42.5°	3075.7	3097.2	3127.6	3127.6	3140.4	3157.8	3183.6	3231.2	3257.0	3287.3	3321.9
45°	2315.4	2341.3	2380.3	2393.1	2401.8	2423.3	2453.7	2492.5	2509.7	2535.7	2565.9
47.5°	1784.1	1801.3	1822.9	1844.5	1866.1	1874.8	1905.0	1905.0	1926.7	1943.9	1952.5
50°	1391.0	1408.2	1425.5	1438.4	1447.2	1460.1	1468.7	1481.6	1485.9	1494.6	1498.9
52.5°	1088.5	1110.2	1110.2	1118.7	1131.7	1144.7	1140.4	1144.7	1149.0	1149.0	1162.0
55°	851.0	851.0	864.0	864.0	872.7	868.2	872.7	872.7	872.7	872.7	876.9
57.5°	634.9	639.4	652.4	643.7	639.4	647.9	639.4	647.9	643.7	652.4	639.4
60°	488.1	488.1	492.5	492.5	496.8	496.8	496.8	492.5	492.5	488.1	488.1
62.5°	367.2	371.4	375.9	371.4	371.4	371.4	367.2	367.2	362.9	358.5	358.5
65°	246.3	242.0	250.5	242.0	246.3	246.3	242.0	246.3	233.3	237.5	233.3
67.5°	177.1	172.8	168.6	172.8	168.6	164.1	164.1	168.6	172.8	159.8	159.8
70°	116.6	120.9	116.6	120.9	125.4	125.4	120.9	116.6	120.9	112.4	116.6
72.5°	73.4	73.4	73.4	73.4	73.4	77.7	77.7	77.7	69.2	69.2	64.7
75°	34.5	47.5	38.9	34.5	47.5	47.5	43.2	43.2	38.9	38.9	38.9
77.5°	34.5	26.0	26.0	26.0	26.0	26.0	26.0	26.0	21.5	26.0	21.5
80°	17.2	17.2	17.2	13.0	17.2	17.2	21.5	17.2	17.2	13.0	21.5
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: P249072

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8
2.5°	8946.2	8942.0	8946.2	8950.5	8946.2	8942.0	8946.2	8950.5	8933.3	8929.0	8937.5
5°	9136.3	9136.3	9144.8	9149.3	9144.8	9136.3	9136.3	9119.1	9106.1	9093.1	9088.8
7.5°	9300.4	9309.1	9317.7	9321.9	9317.7	9309.1	9300.4	9274.5	9248.5	9227.0	9209.7
10°	9399.8	9412.8	9430.0	9438.6	9430.0	9412.8	9399.8	9369.6	9334.9	9300.4	9274.5
12.5°	9443.0	9456.0	9477.5	9473.3	9477.5	9456.0	9443.0	9399.8	9360.9	9313.4	9274.5
15°	9412.8	9430.0	9451.6	9460.3	9451.6	9430.0	9412.8	9369.6	9334.9	9283.2	9244.2
17.5°	9317.7	9343.6	9356.6	9369.6	9356.6	9343.6	9317.7	9283.2	9235.7	9192.5	9153.6
20°	9188.1	9205.5	9222.7	9227.0	9222.7	9205.5	9188.1	9149.3	9075.9	9067.1	9036.9
22.5°	9002.4	9015.4	9054.2	9041.2	9054.2	9015.4	9002.4	8967.8	8942.0	8894.3	8864.1
25°	8734.5	8747.5	8751.9	8756.2	8751.9	8747.5	8734.5	8704.2	8678.5	8643.8	8626.5
27.5°	8272.4	8272.4	8280.9	8285.3	8280.9	8272.4	8272.4	8250.7	8233.4	8216.2	8198.9
30°	7572.5	7572.5	7572.5	7594.2	7572.5	7572.5	7572.5	7568.3	7568.3	7572.5	7572.5
32.5°	6764.8	6756.0	6747.5	6756.0	6747.5	6756.0	6764.8	6769.0	6764.8	6777.7	6799.2
35°	5848.9	5844.6	5857.6	5840.3	5857.6	5844.6	5848.9	5848.9	5866.3	5883.6	5887.8
37.5°	4971.9	4963.4	4980.7	4963.4	4980.7	4963.4	4971.9	4967.7	4963.4	4971.9	4959.1
40°	4138.4	4146.9	4146.9	4181.6	4146.9	4146.9	4138.4	4129.7	4099.5	4082.2	4065.0
42.5°	3339.2	3365.1	3356.4	3382.4	3356.4	3365.1	3339.2	3321.9	3287.3	3257.0	3231.2
45°	2583.1	2600.6	2600.6	2609.1	2600.6	2600.6	2583.1	2565.9	2535.7	2509.7	2492.5
47.5°	1982.7	1982.7	1982.7	1987.1	1982.7	1982.7	1982.7	1952.5	1943.9	1926.7	1905.0
50°	1507.6	1511.9	1516.3	1520.6	1516.3	1511.9	1507.6	1498.9	1494.6	1485.9	1481.6
52.5°	1157.7	1162.0	1153.4	1162.0	1153.4	1162.0	1157.7	1162.0	1149.0	1149.0	1144.7
55°	876.9	872.7	876.9	881.2	876.9	872.7	876.9	876.9	872.7	872.7	872.7
57.5°	643.7	634.9	634.9	634.9	634.9	634.9	643.7	639.4	652.4	643.7	647.9
60°	479.5	483.8	483.8	488.1	483.8	483.8	479.5	488.1	488.1	492.5	492.5
62.5°	354.2	367.2	358.5	367.2	358.5	367.2	354.2	358.5	358.5	362.9	367.2
65°	229.0	229.0	229.0	233.3	229.0	229.0	229.0	233.3	237.5	233.3	246.3
67.5°	155.6	159.8	168.6	164.1	168.6	159.8	155.6	159.8	159.8	172.8	168.6
70°	125.4	112.4	112.4	125.4	112.4	112.4	125.4	116.6	112.4	120.9	116.6
72.5°	73.4	64.7	73.4	73.4	73.4	64.7	73.4	64.7	69.2	69.2	77.7
75°	38.9	34.5	30.2	43.2	30.2	34.5	38.9	38.9	38.9	38.9	43.2
77.5°	26.0	21.5	30.2	30.2	30.2	21.5	26.0	21.5	26.0	21.5	26.0
80°	13.0	17.2	13.0	21.5	13.0	17.2	13.0	21.5	13.0	17.2	17.2
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: P249072

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8
2.5°	8937.5	8924.5	8929.0	8903.0	8903.0	8894.3	8898.8	8877.1	8868.5	8859.8	8872.8
5°	9067.1	9045.6	9028.2	8989.4	8967.8	8942.0	8929.0	8894.3	8864.1	8838.1	8833.9
7.5°	9170.8	9123.3	9093.1	9041.2	9002.4	8972.2	8929.0	8881.3	8842.6	8807.9	8782.1
10°	9214.0	9166.5	9119.1	9054.2	9011.0	8954.8	8911.6	8851.1	8799.4	8751.9	8721.5
12.5°	9218.3	9157.8	9114.6	9041.2	8985.0	8924.5	8877.1	8807.9	8747.5	8700.0	8652.5
15°	9179.5	9123.3	9071.4	8993.7	8937.5	8881.3	8825.3	8751.9	8695.7	8639.5	8605.0
17.5°	9093.1	9041.2	8980.7	8907.3	8855.6	8803.6	8743.2	8682.7	8617.8	8557.4	8514.2
20°	8980.7	8924.5	8872.8	8799.4	8756.2	8700.0	8643.8	8579.1	8527.2	8466.7	8419.2
22.5°	8812.4	8760.4	8713.0	8669.8	8600.6	8557.4	8518.6	8445.2	8393.3	8337.1	8285.3
25°	8570.4	8518.6	8479.7	8427.8	8397.5	8350.1	8311.1	8246.4	8198.9	8147.0	8103.8
27.5°	8173.0	8142.7	8121.0	8090.8	8065.0	8043.3	8021.8	7969.9	7935.4	7887.9	7844.7
30°	7576.8	7572.5	7559.5	7546.6	7563.8	7563.8	7563.8	7555.3	7525.0	7490.4	7460.1
32.5°	6812.2	6820.9	6838.2	6851.2	6885.7	6924.6	6959.1	6976.3	6976.3	6954.8	6941.8
35°	5900.8	5913.8	5939.7	5974.2	6017.4	6064.9	6142.6	6160.0	6172.8	6172.8	6155.6
37.5°	4954.7	4950.4	4976.4	5006.6	5032.6	5067.1	5123.3	5136.2	5157.8	5149.2	5131.8
40°	4034.6	4013.0	4004.3	4013.0	4043.3	4030.3	4043.3	4034.6	4034.6	4004.3	4004.3
42.5°	3183.6	3157.8	3140.4	3127.6	3127.6	3097.2	3075.7	3054.1	3041.2	3019.5	3015.2
45°	2453.7	2423.3	2401.8	2393.1	2380.3	2341.3	2315.4	2289.4	2259.2	2250.7	2254.9
47.5°	1905.0	1874.8	1866.1	1844.5	1822.9	1801.3	1784.1	1753.9	1749.4	1732.2	1749.4
50°	1468.7	1460.1	1447.2	1438.4	1425.5	1408.2	1391.0	1373.7	1365.0	1365.0	1369.3
52.5°	1140.4	1144.7	1131.7	1118.7	1110.2	1110.2	1088.5	1084.3	1084.3	1067.0	1084.3
55°	872.7	868.2	872.7	864.0	864.0	851.0	851.0	838.0	838.0	825.0	833.7
57.5°	639.4	647.9	639.4	643.7	652.4	639.4	634.9	622.0	630.7	622.0	626.4
60°	496.8	496.8	496.8	492.5	492.5	488.1	488.1	483.8	483.8	475.1	483.8
62.5°	367.2	371.4	371.4	371.4	375.9	371.4	367.2	371.4	367.2	367.2	371.4
65°	242.0	246.3	246.3	242.0	250.5	242.0	246.3	250.5	254.8	250.5	254.8
67.5°	164.1	164.1	168.6	172.8	168.6	172.8	177.1	172.8	177.1	185.8	177.1
70°	120.9	125.4	125.4	120.9	116.6	120.9	116.6	129.6	129.6	129.6	138.2
72.5°	77.7	77.7	73.4	73.4	73.4	73.4	73.4	86.4	77.7	73.4	82.1
75°	43.2	47.5	47.5	34.5	38.9	47.5	34.5	38.9	51.9	43.2	51.9
77.5°	26.0	26.0	26.0	26.0	26.0	26.0	34.5	30.2	30.2	30.2	34.5
80°	21.5	17.2	17.2	13.0	17.2	17.2	17.2	26.0	21.5	21.5	26.0
82.5°	8.7	8.7	4.3	0.0	8.7	8.7	8.7	8.7	8.7	8.7	17.2
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: P249072

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8
2.5°	8838.1	8838.1	8833.9	8825.3	8807.9	8807.9	8803.6	8790.7	8782.1	8777.7	8777.7
5°	8794.9	8777.7	8760.4	8713.0	8713.0	8704.2	8678.5	8661.0	8652.5	8630.8	8622.3
7.5°	8756.2	8704.2	8674.0	8643.8	8605.0	8587.6	8557.4	8544.4	8514.2	8492.7	8479.7
10°	8661.0	8626.5	8587.6	8540.1	8509.9	8475.4	8440.7	8415.0	8376.0	8354.3	8337.1
12.5°	8596.3	8544.4	8509.9	8458.0	8406.2	8376.0	8328.5	8298.3	8259.4	8216.2	8190.2
15°	8535.9	8479.7	8432.2	8376.0	8319.8	8285.3	8229.2	8194.7	8138.5	8095.3	8065.0
17.5°	8445.2	8397.5	8345.8	8276.6	8224.9	8181.7	8121.0	8078.0	8026.1	7969.9	7939.7
20°	8350.1	8293.9	8242.1	8173.0	8121.0	8069.3	8008.9	7961.4	7900.7	7849.0	7814.5
22.5°	8224.9	8160.0	8116.8	8047.6	7987.2	7931.2	7875.0	7818.8	7762.6	7719.4	7680.4
25°	8043.3	7974.2	7926.7	7870.5	7814.5	7771.3	7702.1	7667.6	7611.5	7572.5	7533.6
27.5°	7784.1	7732.4	7689.2	7633.0	7585.5	7551.0	7499.1	7464.6	7416.9	7382.4	7352.2
30°	7404.1	7360.9	7322.0	7265.8	7231.3	7201.1	7153.4	7123.2	7088.7	7049.8	7041.2
32.5°	6894.4	6859.7	6820.9	6782.0	6756.0	6738.8	6699.9	6682.6	6648.1	6626.4	6604.9
35°	6125.4	6095.1	6073.6	6056.4	6047.7	6051.9	6043.4	6060.6	6069.2	6064.9	6069.2
37.5°	5119.0	5101.6	5110.3	5123.3	5166.5	5222.7	5274.4	5352.1	5404.0	5455.9	5503.4
40°	3995.8	4008.8	4043.3	4121.0	4233.3	4358.7	4475.3	4622.2	4769.1	4872.7	4967.7
42.5°	3015.2	3054.1	3140.4	3252.8	3421.3	3606.9	3788.5	4004.3	4181.6	4354.3	4475.3
45°	2267.9	2319.6	2432.0	2587.6	2773.2	2989.3	3218.3	3460.1	3671.8	3848.9	3982.8
47.5°	1766.8	1814.3	1926.7	2090.8	2319.6	2544.4	2781.9	3032.5	3252.8	3425.6	3542.2
50°	1395.2	1455.7	1555.1	1727.9	1956.9	2194.5	2440.7	2686.8	2894.3	3041.2	3144.8
52.5°	1097.2	1153.4	1248.4	1429.9	1663.2	1900.7	2129.6	2371.6	2552.9	2695.5	2764.7
55°	851.0	902.9	1002.1	1153.4	1373.7	1607.0	1835.8	2043.3	2211.7	2315.4	2380.3
57.5°	647.9	686.9	756.0	907.2	1105.9	1321.8	1516.3	1723.6	1853.3	1926.7	1969.7
60°	492.5	522.7	596.2	712.8	894.2	1080.0	1244.1	1399.7	1503.3	1563.8	1607.0
62.5°	371.4	406.1	457.8	557.2	695.4	846.7	984.9	1101.5	1187.9	1226.9	1257.1
65°	254.8	280.8	319.7	397.4	514.0	622.0	730.1	816.5	872.7	915.9	933.1
67.5°	190.1	207.3	229.0	289.5	371.4	457.8	531.3	591.7	652.4	669.6	699.8
70°	142.6	155.6	177.1	220.3	267.8	328.2	388.9	423.4	466.6	496.8	505.5
72.5°	90.7	94.9	116.6	142.6	181.4	220.3	259.2	289.5	315.4	332.7	341.2
75°	51.9	77.7	77.7	103.7	129.6	146.9	172.8	194.3	207.3	220.3	220.3
77.5°	34.5	47.5	51.9	64.7	77.7	99.4	120.9	133.9	146.9	151.1	151.1
80°	30.2	34.5	34.5	47.5	56.2	73.4	86.4	90.7	99.4	103.7	112.4
82.5°	13.0	17.2	21.5	34.5	38.9	38.9	51.9	56.2	64.7	69.2	69.2
85°	4.3	8.7	8.7	13.0	21.5	26.0	30.2	34.5	38.9	38.9	43.2
87.5°	4.3	4.3	0.0	4.3	8.7	8.7	17.2	17.2	17.2	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: P249072

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8	8846.8
2.5°	8769.1	8773.4	8756.2	8751.9	8743.2	8747.5	8756.2
5°	8609.3	8613.6	8596.3	8579.1	8579.1	8574.6	8579.1
7.5°	8458.0	8462.4	8436.5	8427.8	8410.5	8415.0	8415.0
10°	8306.9	8306.9	8268.1	8263.6	8250.7	8246.4	8246.4
12.5°	8160.0	8147.0	8116.8	8099.5	8108.2	8082.3	8082.3
15°	8030.4	8008.9	7969.9	7956.9	7935.4	7926.7	7926.7
17.5°	7896.5	7879.2	7844.7	7818.8	7792.8	7788.6	7792.8
20°	7766.9	7749.6	7706.4	7689.2	7667.6	7667.6	7658.9
22.5°	7637.2	7620.0	7581.2	7568.3	7538.0	7538.0	7542.3
25°	7503.4	7490.4	7447.2	7438.6	7434.4	7416.9	7425.7
27.5°	7322.0	7313.3	7278.8	7265.8	7248.6	7244.3	7252.8
30°	6989.3	6976.3	6950.6	6937.6	6907.4	6911.6	6920.2
32.5°	6574.7	6557.4	6522.8	6509.8	6484.0	6475.3	6479.6
35°	6056.4	6043.4	6013.2	6013.2	5987.2	5978.5	5987.2
37.5°	5529.4	5542.2	5529.4	5542.2	5529.4	5524.9	5529.4
40°	5032.6	5080.1	5088.6	5136.2	5119.0	5144.8	5140.5
42.5°	4557.3	4635.0	4665.4	4704.2	4695.6	4712.9	4725.9
45°	4077.8	4142.7	4172.9	4198.9	4203.1	4211.8	4216.1
47.5°	3624.2	3676.1	3680.4	3710.6	3706.3	3706.3	3719.3
50°	3201.0	3235.5	3244.0	3265.7	3248.5	3239.8	3244.0
52.5°	2807.9	2842.4	2833.7	2842.4	2820.9	2812.2	2816.4
55°	2406.1	2423.3	2423.3	2423.3	2397.5	2397.5	2397.5
57.5°	1995.7	2000.1	1991.4	1995.7	1991.4	1965.5	1961.2
60°	1620.0	1620.0	1615.5	1620.0	1607.0	1594.0	1594.0
62.5°	1265.6	1274.3	1291.6	1274.3	1265.6	1274.3	1261.3
65°	946.1	963.3	958.9	967.6	963.3	963.3	954.6
67.5°	712.8	717.1	721.4	725.8	725.8	725.8	725.8
70°	522.7	535.7	531.3	531.3	531.3	531.3	557.2
72.5°	349.9	367.2	362.9	371.4	371.4	380.1	371.4
75°	237.5	254.8	246.3	259.2	254.8	246.3	267.8
77.5°	159.8	168.6	172.8	177.1	172.8	168.6	172.8
80°	112.4	120.9	116.6	120.9	120.9	120.9	125.4
82.5°	69.2	82.1	77.7	82.1	77.7	82.1	82.1
85°	47.5	51.9	43.2	51.9	47.5	47.5	56.2
87.5°	30.2	26.0	26.0	30.2	26.0	30.2	26.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)