

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: P249081

Luminaire Tested: **LD8B200D010 ER8B2009730 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249081
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 ER8B2009730 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15766.0 lumens
Efficiency: N/A
Efficacy: 70.6 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

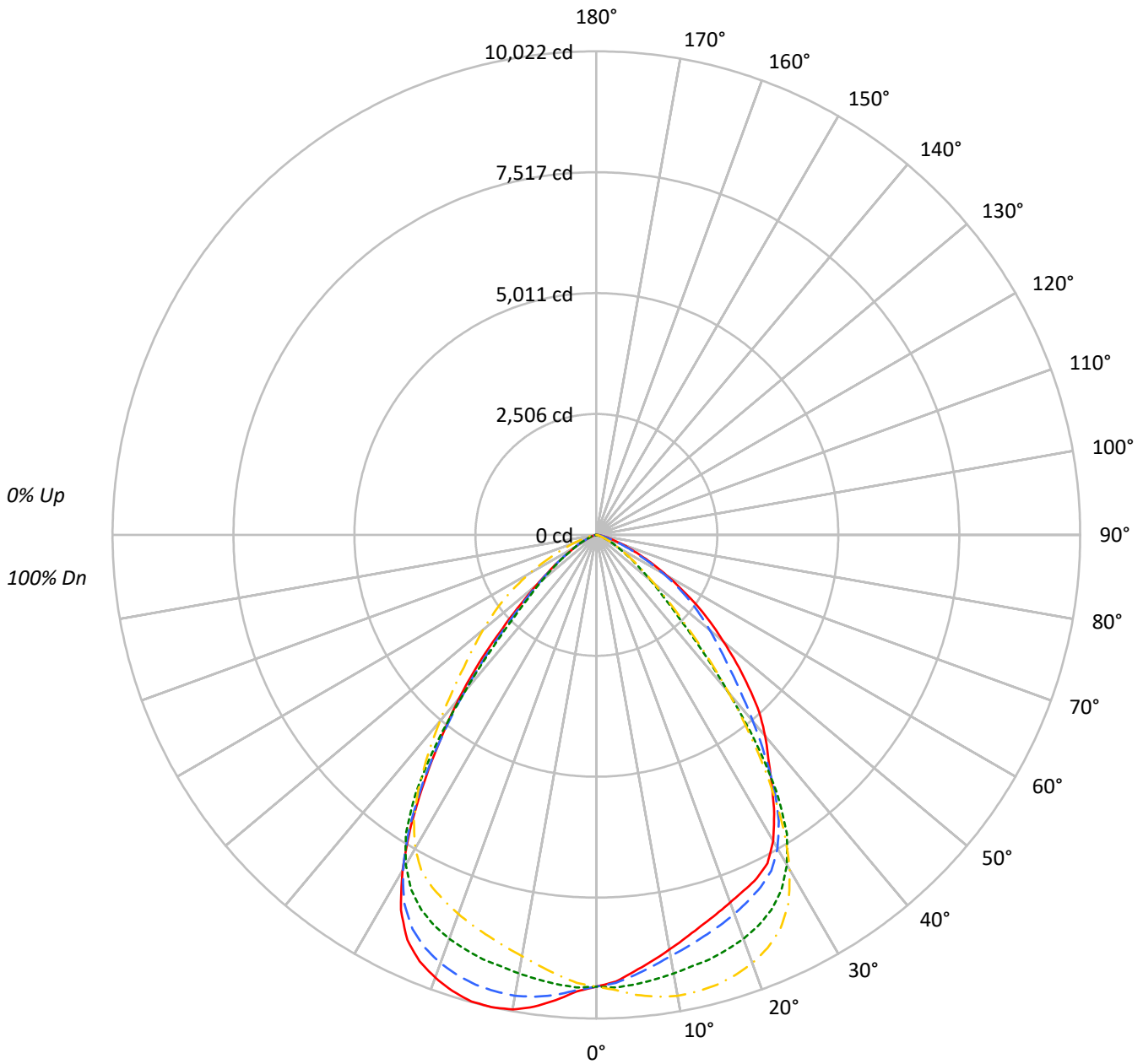
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	890.9	5.7
10°-20°	2579.8	16.4
20°-30°	3906.4	24.8
30°-40°	3915.1	24.8
40°-50°	2458.5	15.6
50°-60°	1310.1	8.3
60°-70°	538.8	3.4
70°-80°	142.3	0.9
80°-90°	24.1	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°	7377.1	46.8
0°-40°	11292.2	71.6
0°-60°	15060.8	95.5
0°-90°	15766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15766.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9360	9360	9360	9360	9360	
5°	9076	9346	9680	9346	9076	856
15°	8386	9104	10009	9104	8386	2372
25°	7856	8574	9264	8574	7856	3603
35°	6334	6512	6179	6512	6334	3968
45°	4460	2386	2760	2386	4460	3431
55°	2536	882	932	882	2536	2261
65°	1010	270	247	270	1010	1048
75°	283	55	46	55	283	321
85°	59	0	4	0	59	65
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°	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8
2.5°	9263.8	9254.6	9250.1	9259.3	9263.8	9282.1	9277.6	9286.6	9286.6	9291.3	9300.3
5°	9076.5	9071.8	9076.5	9076.5	9094.7	9113.0	9108.5	9122.2	9131.2	9154.2	9163.2
7.5°	8902.8	8902.8	8898.1	8916.4	8925.6	8953.1	8948.4	8971.3	8985.1	9007.8	9039.8
10°	8724.5	8724.5	8729.0	8742.8	8747.5	8788.5	8788.5	8820.5	8838.7	8861.7	8902.8
12.5°	8550.9	8550.9	8578.4	8569.1	8587.4	8619.4	8633.1	8665.1	8692.5	8738.2	8779.4
15°	8386.3	8386.3	8395.5	8418.3	8432.0	8473.2	8496.0	8532.6	8564.6	8610.3	8669.8
17.5°	8244.6	8240.1	8244.6	8272.1	8299.6	8336.1	8354.3	8400.0	8432.0	8491.4	8546.4
20°	8103.0	8112.2	8112.2	8135.0	8153.2	8198.9	8217.2	8267.6	8304.1	8358.8	8423.0
22.5°	7979.6	7975.1	7975.1	8007.1	8020.8	8061.8	8080.0	8125.8	8166.9	8212.7	8272.1
25°	7856.2	7847.0	7865.4	7869.9	7878.9	7924.7	7938.4	7970.4	8011.6	8052.8	8112.2
27.5°	7673.3	7664.3	7668.8	7687.1	7700.8	7737.3	7746.5	7778.5	7810.5	7847.0	7897.4
30°	7321.4	7312.3	7307.8	7339.8	7353.5	7380.8	7394.6	7449.5	7458.5	7499.7	7536.2
32.5°	6855.2	6850.7	6859.9	6887.2	6900.9	6937.6	6955.9	6987.9	7010.6	7033.6	7070.1
35°	6334.3	6325.1	6334.3	6361.8	6361.8	6393.8	6407.5	6421.1	6416.6	6421.1	6412.0
37.5°	5850.0	5845.3	5850.0	5863.5	5850.0	5863.5	5850.0	5822.5	5772.3	5717.3	5662.4
40°	5438.5	5443.1	5415.8	5434.0	5383.6	5374.6	5324.4	5255.7	5155.3	5045.6	4890.2
42.5°	4999.9	4986.1	4967.9	4976.9	4935.9	4903.7	4821.5	4734.8	4606.7	4424.1	4236.5
45°	4460.5	4456.0	4446.8	4442.3	4414.8	4382.9	4314.2	4213.7	4072.1	3884.7	3660.7
47.5°	3935.0	3921.2	3921.2	3925.7	3893.8	3889.2	3834.3	3747.6	3624.2	3441.3	3208.3
50°	3432.1	3427.6	3436.8	3455.1	3432.1	3423.1	3386.6	3327.2	3217.5	3062.1	2842.6
52.5°	2979.7	2975.2	2984.4	3007.2	2998.0	3007.2	2970.7	2925.0	2851.8	2700.9	2509.1
55°	2536.5	2536.5	2536.5	2563.8	2563.8	2563.8	2545.6	2518.3	2449.6	2339.9	2161.8
57.5°	2074.9	2079.4	2106.9	2111.4	2106.9	2116.1	2111.4	2083.9	2038.4	1960.7	1823.6
60°	1686.4	1686.4	1700.2	1713.9	1709.2	1713.9	1713.9	1700.2	1654.5	1590.5	1480.8
62.5°	1334.5	1348.2	1339.0	1348.2	1366.5	1348.2	1339.0	1330.0	1298.0	1256.8	1165.4
65°	1010.0	1019.2	1019.2	1023.7	1014.5	1019.2	1001.0	987.2	969.0	923.3	863.8
67.5°	767.9	767.9	767.9	767.9	763.2	758.7	754.1	740.4	708.4	690.2	626.0
70°	589.5	562.1	562.1	562.1	562.1	566.8	553.1	534.8	525.6	493.6	447.9
72.5°	393.0	402.2	393.0	393.0	383.9	388.5	370.2	361.0	352.0	333.7	306.2
75°	283.3	260.5	269.6	274.3	260.5	269.6	251.3	233.1	233.1	219.3	205.6
77.5°	182.8	178.3	182.8	187.4	182.8	178.3	169.1	159.9	159.9	155.4	141.6
80°	132.6	127.9	127.9	127.9	123.4	127.9	118.9	118.9	109.7	105.2	95.9
82.5°	86.9	86.9	82.2	86.9	82.2	86.9	73.2	73.2	73.2	68.5	59.4
85°	59.4	50.2	50.2	54.9	45.7	54.9	50.2	45.7	41.2	41.2	36.5
87.5°	27.5	32.0	27.5	32.0	27.5	27.5	32.0	27.5	27.5	18.2	18.2
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°	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8
2.5°	9314.1	9318.6	9318.6	9337.0	9346.0	9350.6	9350.6	9387.2	9373.5	9382.7	9391.8
5°	9181.6	9208.9	9218.1	9218.1	9268.4	9286.6	9304.8	9346.0	9350.6	9378.0	9410.0
7.5°	9053.5	9085.5	9103.9	9144.9	9176.9	9208.9	9263.8	9291.3	9318.6	9355.3	9396.3
10°	8930.1	8966.8	9003.3	9035.3	9085.5	9126.7	9163.2	9227.2	9259.3	9309.5	9364.3
12.5°	8811.4	8861.7	8893.6	8948.4	9003.3	9039.8	9094.7	9154.2	9204.4	9254.6	9318.6
15°	8706.3	8765.7	8802.2	8861.7	8921.1	8971.3	9030.8	9103.9	9140.4	9199.9	9259.3
17.5°	8591.9	8656.0	8701.8	8756.5	8829.7	8884.4	8934.8	9007.8	9053.5	9117.5	9186.1
20°	8473.2	8537.2	8591.9	8646.8	8720.0	8774.7	8834.2	8907.4	8957.6	9021.5	9076.5
22.5°	8331.5	8391.0	8450.2	8514.2	8587.4	8633.1	8701.8	8765.7	8820.5	8879.9	8934.8
25°	8148.7	8221.9	8267.6	8326.8	8386.3	8436.5	8509.7	8573.6	8619.4	8674.3	8724.5
27.5°	7933.9	7988.8	8025.3	8075.5	8135.0	8180.7	8235.4	8299.6	8345.3	8395.5	8432.0
30°	7568.2	7618.6	7650.6	7687.1	7746.5	7787.7	7833.4	7892.7	7924.7	7961.3	7993.3
32.5°	7088.3	7129.5	7147.7	7175.2	7216.4	7257.4	7294.1	7344.3	7358.1	7380.8	7380.8
35°	6393.8	6402.8	6398.3	6407.5	6425.8	6448.5	6480.5	6512.5	6530.7	6530.7	6517.2
37.5°	5580.2	5525.5	5466.0	5420.3	5406.6	5397.4	5415.8	5429.3	5447.8	5456.8	5434.0
40°	4734.8	4611.4	4478.8	4359.9	4277.7	4241.2	4227.5	4236.5	4236.5	4268.5	4268.5
42.5°	4008.1	3816.1	3619.7	3441.3	3322.5	3231.2	3190.0	3190.0	3194.5	3217.5	3231.2
45°	3404.9	3162.6	2934.0	2737.6	2573.0	2454.1	2399.4	2385.7	2381.1	2390.2	2422.1
47.5°	2943.2	2691.9	2454.1	2212.0	2038.4	1919.5	1869.3	1850.8	1832.6	1850.8	1855.6
50°	2582.2	2321.7	2070.4	1828.1	1645.2	1540.1	1476.1	1448.7	1444.1	1444.1	1453.4
52.5°	2253.0	2010.9	1759.6	1512.8	1320.7	1220.3	1160.8	1147.1	1128.9	1147.1	1147.1
55°	1942.3	1700.2	1453.4	1220.3	1060.2	955.2	900.3	882.1	872.8	886.6	886.6
57.5°	1604.2	1398.4	1170.1	959.8	799.9	726.7	685.5	662.7	658.0	667.2	658.0
60°	1316.2	1142.6	946.0	754.1	630.7	553.1	521.1	511.9	502.6	511.9	511.9
62.5°	1042.0	895.8	735.7	589.5	484.4	429.7	393.0	393.0	388.5	388.5	393.0
65°	772.4	658.0	543.8	420.4	338.2	297.0	269.6	269.6	265.1	269.6	265.1
67.5°	562.1	484.4	393.0	306.2	242.3	219.3	201.1	187.4	196.6	187.4	182.8
70°	411.4	347.3	283.3	233.1	187.4	164.6	150.9	146.2	137.1	137.1	137.1
72.5°	274.3	233.1	191.9	150.9	123.4	100.5	95.9	86.9	77.7	82.2	91.4
75°	182.8	155.4	137.1	109.7	82.2	82.2	54.9	54.9	45.7	54.9	41.2
77.5°	127.9	105.2	82.2	68.5	54.9	50.2	36.5	36.5	32.0	32.0	32.0
80°	91.4	77.7	59.4	50.2	36.5	36.5	32.0	27.5	22.8	22.8	27.5
82.5°	54.9	41.2	41.2	36.5	22.8	18.2	13.7	18.2	9.2	9.2	9.2
85°	32.0	27.5	22.8	13.7	9.2	9.2	4.5	0.0	4.5	4.5	0.0
87.5°	18.2	9.2	9.2	4.5	0.0	4.5	4.5	0.0	0.0	0.0	9.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8
2.5°	9414.7	9410.0	9419.2	9419.2	9446.7	9442.0	9455.7	9455.7	9446.7	9451.2	9469.4
5°	9446.7	9460.4	9487.7	9510.6	9551.7	9570.1	9592.8	9615.8	9620.3	9634.0	9647.8
7.5°	9446.7	9492.4	9524.4	9565.4	9620.3	9652.3	9702.5	9743.7	9762.0	9784.7	9812.2
10°	9428.2	9474.0	9533.4	9579.1	9647.8	9698.0	9748.2	9812.2	9839.7	9876.1	9912.8
12.5°	9391.8	9442.0	9505.9	9565.4	9643.1	9688.8	9752.7	9812.2	9853.4	9903.6	9944.8
15°	9337.0	9396.3	9455.7	9515.2	9597.4	9652.3	9711.7	9780.2	9821.4	9876.1	9912.8
17.5°	9250.1	9314.1	9369.0	9423.7	9501.4	9565.4	9620.3	9684.3	9725.5	9771.2	9821.4
20°	9144.9	9204.4	9263.8	9309.5	9387.2	9442.0	9501.4	9560.9	9592.8	9602.1	9679.8
22.5°	9012.5	9053.5	9099.2	9172.4	9218.1	9268.4	9323.3	9378.0	9410.0	9460.4	9487.7
25°	8793.0	8834.2	8884.4	8916.4	8971.3	9012.5	9067.3	9126.7	9144.9	9181.6	9208.9
27.5°	8486.9	8509.7	8532.6	8559.9	8591.9	8614.8	8646.8	8674.3	8692.5	8710.8	8729.0
30°	8002.3	8002.3	8002.3	7984.1	7997.8	8011.6	8016.1	8011.6	8011.6	8007.1	8007.1
32.5°	7362.6	7326.1	7284.9	7248.4	7234.7	7216.4	7207.2	7193.5	7170.7	7157.0	7161.5
35°	6498.8	6416.6	6366.3	6320.6	6284.1	6256.7	6242.9	6229.2	6224.7	6206.4	6188.0
37.5°	5420.3	5360.9	5324.4	5296.9	5264.9	5237.5	5242.0	5246.7	5260.2	5251.2	5255.7
40°	4277.7	4264.0	4277.7	4245.7	4236.5	4245.7	4268.5	4300.7	4318.9	4337.1	4369.1
42.5°	3254.0	3276.7	3308.9	3308.9	3322.5	3340.9	3368.2	3418.6	3445.9	3477.8	3514.5
45°	2449.6	2477.1	2518.3	2531.8	2541.0	2563.8	2596.0	2637.0	2655.2	2682.7	2714.7
47.5°	1887.5	1905.8	1928.5	1951.5	1974.3	1983.5	2015.4	2015.4	2038.4	2056.6	2065.7
50°	1471.6	1489.9	1508.1	1521.8	1531.1	1544.8	1553.8	1567.5	1572.1	1581.3	1585.8
52.5°	1151.6	1174.6	1174.6	1183.6	1197.3	1211.1	1206.6	1211.1	1215.6	1215.6	1229.3
55°	900.3	900.3	914.0	914.0	923.3	918.6	923.3	923.3	923.3	923.3	927.8
57.5°	671.8	676.5	690.2	681.0	676.5	685.5	676.5	685.5	681.0	690.2	676.5
60°	516.4	516.4	521.1	521.1	525.6	525.6	525.6	521.1	521.1	516.4	516.4
62.5°	388.5	393.0	397.7	393.0	393.0	393.0	388.5	388.5	383.9	379.2	379.2
65°	260.5	256.0	265.1	256.0	260.5	260.5	256.0	260.5	246.8	251.3	246.8
67.5°	187.4	182.8	178.3	182.8	178.3	173.6	173.6	178.3	182.8	169.1	169.1
70°	123.4	127.9	123.4	127.9	132.6	132.6	127.9	123.4	127.9	118.9	123.4
72.5°	77.7	77.7	77.7	77.7	77.7	82.2	82.2	82.2	73.2	73.2	68.5
75°	36.5	50.2	41.2	36.5	50.2	50.2	45.7	45.7	41.2	41.2	41.2
77.5°	36.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	22.8	27.5	22.8
80°	18.2	18.2	18.2	13.7	18.2	18.2	22.8	18.2	18.2	13.7	22.8
82.5°	9.2	9.2	9.2	0.0	4.5	9.2	9.2	4.5	9.2	9.2	4.5
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: P249081

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8
2.5°	9464.9	9460.4	9464.9	9469.4	9464.9	9460.4	9464.9	9469.4	9451.2	9446.7	9455.7
5°	9666.0	9666.0	9675.1	9679.8	9675.1	9666.0	9666.0	9647.8	9634.0	9620.3	9615.8
7.5°	9839.7	9848.9	9857.9	9862.4	9857.9	9848.9	9839.7	9812.2	9784.7	9762.0	9743.7
10°	9944.8	9958.5	9976.8	9985.8	9976.8	9958.5	9944.8	9912.8	9876.1	9839.7	9812.2
12.5°	9990.5	10004.3	10027.0	10022.5	10027.0	10004.3	9990.5	9944.8	9903.6	9853.4	9812.2
15°	9958.5	9976.8	9999.5	10008.8	9999.5	9976.8	9958.5	9912.8	9876.1	9821.4	9780.2
17.5°	9857.9	9885.4	9899.1	9912.8	9899.1	9885.4	9857.9	9821.4	9771.2	9725.5	9684.3
20°	9720.8	9739.2	9757.4	9762.0	9757.4	9739.2	9720.8	9679.8	9602.1	9592.8	9560.9
22.5°	9524.4	9538.1	9579.1	9565.4	9579.1	9538.1	9524.4	9487.7	9460.4	9410.0	9378.0
25°	9240.9	9254.6	9259.3	9263.8	9259.3	9254.6	9240.9	9208.9	9181.6	9144.9	9126.7
27.5°	8752.0	8752.0	8761.0	8765.7	8761.0	8752.0	8752.0	8729.0	8710.8	8692.5	8674.3
30°	8011.6	8011.6	8011.6	8034.5	8011.6	8011.6	8011.6	8007.1	8007.1	8011.6	8011.6
32.5°	7157.0	7147.7	7138.7	7147.7	7138.7	7147.7	7157.0	7161.5	7157.0	7170.7	7193.5
35°	6188.0	6183.5	6197.2	6179.0	6197.2	6183.5	6188.0	6188.0	6206.4	6224.7	6229.2
37.5°	5260.2	5251.2	5269.4	5251.2	5269.4	5251.2	5260.2	5255.7	5251.2	5260.2	5246.7
40°	4378.3	4387.4	4387.4	4424.1	4387.4	4387.4	4378.3	4369.1	4337.1	4318.9	4300.7
42.5°	3532.8	3560.2	3551.0	3578.5	3551.0	3560.2	3532.8	3514.5	3477.8	3445.9	3418.6
45°	2732.9	2751.3	2751.3	2760.4	2751.3	2751.3	2732.9	2714.7	2682.7	2655.2	2637.0
47.5°	2097.7	2097.7	2097.7	2102.4	2097.7	2097.7	2097.7	2065.7	2056.6	2038.4	2015.4
50°	1595.0	1599.5	1604.2	1608.7	1604.2	1599.5	1595.0	1585.8	1581.3	1572.1	1567.5
52.5°	1224.8	1229.3	1220.3	1229.3	1220.3	1229.3	1224.8	1229.3	1215.6	1215.6	1211.1
55°	927.8	923.3	927.8	932.3	927.8	923.3	927.8	927.8	923.3	923.3	923.3
57.5°	681.0	671.8	671.8	671.8	671.8	671.8	681.0	676.5	690.2	681.0	685.5
60°	507.3	511.9	511.9	516.4	511.9	511.9	507.3	516.4	516.4	521.1	521.1
62.5°	374.7	388.5	379.2	388.5	379.2	388.5	374.7	379.2	379.2	383.9	388.5
65°	242.3	242.3	242.3	246.8	242.3	242.3	242.3	246.8	251.3	246.8	260.5
67.5°	164.6	169.1	178.3	173.6	178.3	169.1	164.6	169.1	169.1	182.8	178.3
70°	132.6	118.9	118.9	132.6	118.9	118.9	132.6	123.4	118.9	127.9	123.4
72.5°	77.7	68.5	77.7	77.7	77.7	68.5	77.7	68.5	73.2	73.2	82.2
75°	41.2	36.5	32.0	45.7	32.0	36.5	41.2	41.2	41.2	41.2	45.7
77.5°	27.5	22.8	32.0	32.0	32.0	22.8	27.5	22.8	27.5	22.8	27.5
80°	13.7	18.2	13.7	22.8	13.7	18.2	13.7	22.8	13.7	18.2	18.2
82.5°	4.5	9.2	9.2	9.2	9.2	9.2	4.5	4.5	9.2	9.2	4.5
85°	0.0	9.2	4.5	4.5	4.5	9.2	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	0.0	0.0	4.5	0.0	0.0	4.5	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: P249081

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8
2.5°	9455.7	9442.0	9446.7	9419.2	9419.2	9410.0	9414.7	9391.8	9382.7	9373.5	9387.2
5°	9592.8	9570.1	9551.7	9510.6	9487.7	9460.4	9446.7	9410.0	9378.0	9350.6	9346.0
7.5°	9702.5	9652.3	9620.3	9565.4	9524.4	9492.4	9446.7	9396.3	9355.3	9318.6	9291.3
10°	9748.2	9698.0	9647.8	9579.1	9533.4	9474.0	9428.2	9364.3	9309.5	9259.3	9227.2
12.5°	9752.7	9688.8	9643.1	9565.4	9505.9	9442.0	9391.8	9318.6	9254.6	9204.4	9154.2
15°	9711.7	9652.3	9597.4	9515.2	9455.7	9396.3	9337.0	9259.3	9199.9	9140.4	9103.9
17.5°	9620.3	9565.4	9501.4	9423.7	9369.0	9314.1	9250.1	9186.1	9117.5	9053.5	9007.8
20°	9501.4	9442.0	9387.2	9309.5	9263.8	9204.4	9144.9	9076.5	9021.5	8957.6	8907.4
22.5°	9323.3	9268.4	9218.1	9172.4	9099.2	9053.5	9012.5	8934.8	8879.9	8820.5	8765.7
25°	9067.3	9012.5	8971.3	8916.4	8884.4	8834.2	8793.0	8724.5	8674.3	8619.4	8573.6
27.5°	8646.8	8614.8	8591.9	8559.9	8532.6	8509.7	8486.9	8432.0	8395.5	8345.3	8299.6
30°	8016.1	8011.6	7997.8	7984.1	8002.3	8002.3	8002.3	7993.3	7961.3	7924.7	7892.7
32.5°	7207.2	7216.4	7234.7	7248.4	7284.9	7326.1	7362.6	7380.8	7380.8	7358.1	7344.3
35°	6242.9	6256.7	6284.1	6320.6	6366.3	6416.6	6498.8	6517.2	6530.7	6530.7	6512.5
37.5°	5242.0	5237.5	5264.9	5296.9	5324.4	5360.9	5420.3	5434.0	5456.8	5447.8	5429.3
40°	4268.5	4245.7	4236.5	4245.7	4277.7	4264.0	4277.7	4268.5	4268.5	4236.5	4236.5
42.5°	3368.2	3340.9	3322.5	3308.9	3308.9	3276.7	3254.0	3231.2	3217.5	3194.5	3190.0
45°	2596.0	2563.8	2541.0	2531.8	2518.3	2477.1	2449.6	2422.1	2390.2	2381.1	2385.7
47.5°	2015.4	1983.5	1974.3	1951.5	1928.5	1905.8	1887.5	1855.6	1850.8	1832.6	1850.8
50°	1553.8	1544.8	1531.1	1521.8	1508.1	1489.9	1471.6	1453.4	1444.1	1444.1	1448.7
52.5°	1206.6	1211.1	1197.3	1183.6	1174.6	1174.6	1151.6	1147.1	1147.1	1128.9	1147.1
55°	923.3	918.6	923.3	914.0	914.0	900.3	900.3	886.6	886.6	872.8	882.1
57.5°	676.5	685.5	676.5	681.0	690.2	676.5	671.8	658.0	667.2	658.0	662.7
60°	525.6	525.6	525.6	521.1	521.1	516.4	516.4	511.9	511.9	502.6	511.9
62.5°	388.5	393.0	393.0	393.0	397.7	393.0	388.5	393.0	388.5	388.5	393.0
65°	256.0	260.5	260.5	256.0	265.1	256.0	260.5	265.1	269.6	265.1	269.6
67.5°	173.6	173.6	178.3	182.8	178.3	182.8	187.4	182.8	187.4	196.6	187.4
70°	127.9	132.6	132.6	127.9	123.4	127.9	123.4	137.1	137.1	137.1	146.2
72.5°	82.2	82.2	77.7	77.7	77.7	77.7	77.7	91.4	82.2	77.7	86.9
75°	45.7	50.2	50.2	36.5	41.2	50.2	36.5	41.2	54.9	45.7	54.9
77.5°	27.5	27.5	27.5	27.5	27.5	27.5	36.5	32.0	32.0	32.0	36.5
80°	22.8	18.2	18.2	13.7	18.2	18.2	18.2	27.5	22.8	22.8	27.5
82.5°	9.2	9.2	4.5	0.0	9.2	9.2	9.2	9.2	9.2	9.2	18.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	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: P249081

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8
2.5°	9350.6	9350.6	9346.0	9337.0	9318.6	9318.6	9314.1	9300.3	9291.3	9286.6	9286.6
5°	9304.8	9286.6	9268.4	9218.1	9218.1	9208.9	9181.6	9163.2	9154.2	9131.2	9122.2
7.5°	9263.8	9208.9	9176.9	9144.9	9103.9	9085.5	9053.5	9039.8	9007.8	8985.1	8971.3
10°	9163.2	9126.7	9085.5	9035.3	9003.3	8966.8	8930.1	8902.8	8861.7	8838.7	8820.5
12.5°	9094.7	9039.8	9003.3	8948.4	8893.6	8861.7	8811.4	8779.4	8738.2	8692.5	8665.1
15°	9030.8	8971.3	8921.1	8861.7	8802.2	8765.7	8706.3	8669.8	8610.3	8564.6	8532.6
17.5°	8934.8	8884.4	8829.7	8756.5	8701.8	8656.0	8591.9	8546.4	8491.4	8432.0	8400.0
20°	8834.2	8774.7	8720.0	8646.8	8591.9	8537.2	8473.2	8423.0	8358.8	8304.1	8267.6
22.5°	8701.8	8633.1	8587.4	8514.2	8450.2	8391.0	8331.5	8272.1	8212.7	8166.9	8125.8
25°	8509.7	8436.5	8386.3	8326.8	8267.6	8221.9	8148.7	8112.2	8052.8	8011.6	7970.4
27.5°	8235.4	8180.7	8135.0	8075.5	8025.3	7988.8	7933.9	7897.4	7847.0	7810.5	7778.5
30°	7833.4	7787.7	7746.5	7687.1	7650.6	7618.6	7568.2	7536.2	7499.7	7458.5	7449.5
32.5°	7294.1	7257.4	7216.4	7175.2	7147.7	7129.5	7088.3	7070.1	7033.6	7010.6	6987.9
35°	6480.5	6448.5	6425.8	6407.5	6398.3	6402.8	6393.8	6412.0	6421.1	6416.6	6421.1
37.5°	5415.8	5397.4	5406.6	5420.3	5466.0	5525.5	5580.2	5662.4	5717.3	5772.3	5822.5
40°	4227.5	4241.2	4277.7	4359.9	4478.8	4611.4	4734.8	4890.2	5045.6	5155.3	5255.7
42.5°	3190.0	3231.2	3322.5	3441.3	3619.7	3816.1	4008.1	4236.5	4424.1	4606.7	4734.8
45°	2399.4	2454.1	2573.0	2737.6	2934.0	3162.6	3404.9	3660.7	3884.7	4072.1	4213.7
47.5°	1869.3	1919.5	2038.4	2212.0	2454.1	2691.9	2943.2	3208.3	3441.3	3624.2	3747.6
50°	1476.1	1540.1	1645.2	1828.1	2070.4	2321.7	2582.2	2842.6	3062.1	3217.5	3327.2
52.5°	1160.8	1220.3	1320.7	1512.8	1759.6	2010.9	2253.0	2509.1	2700.9	2851.8	2925.0
55°	900.3	955.2	1060.2	1220.3	1453.4	1700.2	1942.3	2161.8	2339.9	2449.6	2518.3
57.5°	685.5	726.7	799.9	959.8	1170.1	1398.4	1604.2	1823.6	1960.7	2038.4	2083.9
60°	521.1	553.1	630.7	754.1	946.0	1142.6	1316.2	1480.8	1590.5	1654.5	1700.2
62.5°	393.0	429.7	484.4	589.5	735.7	895.8	1042.0	1165.4	1256.8	1298.0	1330.0
65°	269.6	297.0	338.2	420.4	543.8	658.0	772.4	863.8	923.3	969.0	987.2
67.5°	201.1	219.3	242.3	306.2	393.0	484.4	562.1	626.0	690.2	708.4	740.4
70°	150.9	164.6	187.4	233.1	283.3	347.3	411.4	447.9	493.6	525.6	534.8
72.5°	95.9	100.5	123.4	150.9	191.9	233.1	274.3	306.2	333.7	352.0	361.0
75°	54.9	82.2	82.2	109.7	137.1	155.4	182.8	205.6	219.3	233.1	233.1
77.5°	36.5	50.2	54.9	68.5	82.2	105.2	127.9	141.6	155.4	159.9	159.9
80°	32.0	36.5	36.5	50.2	59.4	77.7	91.4	95.9	105.2	109.7	118.9
82.5°	13.7	18.2	22.8	36.5	41.2	41.2	54.9	59.4	68.5	73.2	73.2
85°	4.5	9.2	9.2	13.7	22.8	27.5	32.0	36.5	41.2	41.2	45.7
87.5°	4.5	4.5	0.0	4.5	9.2	9.2	18.2	18.2	18.2	27.5	27.5
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: P249081

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8	9359.8
2.5°	9277.6	9282.1	9263.8	9259.3	9250.1	9254.6	9263.8
5°	9108.5	9113.0	9094.7	9076.5	9076.5	9071.8	9076.5
7.5°	8948.4	8953.1	8925.6	8916.4	8898.1	8902.8	8902.8
10°	8788.5	8788.5	8747.5	8742.8	8729.0	8724.5	8724.5
12.5°	8633.1	8619.4	8587.4	8569.1	8578.4	8550.9	8550.9
15°	8496.0	8473.2	8432.0	8418.3	8395.5	8386.3	8386.3
17.5°	8354.3	8336.1	8299.6	8272.1	8244.6	8240.1	8244.6
20°	8217.2	8198.9	8153.2	8135.0	8112.2	8112.2	8103.0
22.5°	8080.0	8061.8	8020.8	8007.1	7975.1	7975.1	7979.6
25°	7938.4	7924.7	7878.9	7869.9	7865.4	7847.0	7856.2
27.5°	7746.5	7737.3	7700.8	7687.1	7668.8	7664.3	7673.3
30°	7394.6	7380.8	7353.5	7339.8	7307.8	7312.3	7321.4
32.5°	6955.9	6937.6	6900.9	6887.2	6859.9	6850.7	6855.2
35°	6407.5	6393.8	6361.8	6361.8	6334.3	6325.1	6334.3
37.5°	5850.0	5863.5	5850.0	5863.5	5850.0	5845.3	5850.0
40°	5324.4	5374.6	5383.6	5434.0	5415.8	5443.1	5438.5
42.5°	4821.5	4903.7	4935.9	4976.9	4967.9	4986.1	4999.9
45°	4314.2	4382.9	4414.8	4442.3	4446.8	4456.0	4460.5
47.5°	3834.3	3889.2	3893.8	3925.7	3921.2	3921.2	3935.0
50°	3386.6	3423.1	3432.1	3455.1	3436.8	3427.6	3432.1
52.5°	2970.7	3007.2	2998.0	3007.2	2984.4	2975.2	2979.7
55°	2545.6	2563.8	2563.8	2563.8	2536.5	2536.5	2536.5
57.5°	2111.4	2116.1	2106.9	2111.4	2106.9	2079.4	2074.9
60°	1713.9	1713.9	1709.2	1713.9	1700.2	1686.4	1686.4
62.5°	1339.0	1348.2	1366.5	1348.2	1339.0	1348.2	1334.5
65°	1001.0	1019.2	1014.5	1023.7	1019.2	1019.2	1010.0
67.5°	754.1	758.7	763.2	767.9	767.9	767.9	767.9
70°	553.1	566.8	562.1	562.1	562.1	562.1	589.5
72.5°	370.2	388.5	383.9	393.0	393.0	402.2	393.0
75°	251.3	269.6	260.5	274.3	269.6	260.5	283.3
77.5°	169.1	178.3	182.8	187.4	182.8	178.3	182.8
80°	118.9	127.9	123.4	127.9	127.9	127.9	132.6
82.5°	73.2	86.9	82.2	86.9	82.2	86.9	86.9
85°	50.2	54.9	45.7	54.9	50.2	50.2	59.4
87.5°	32.0	27.5	27.5	32.0	27.5	32.0	27.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)