

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: P248640

Luminaire Tested: **LD8B200D010 ER8B2009727 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248640  
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 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15060.0 lumens  
Efficiency: N/A  
Efficacy: 67.4 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

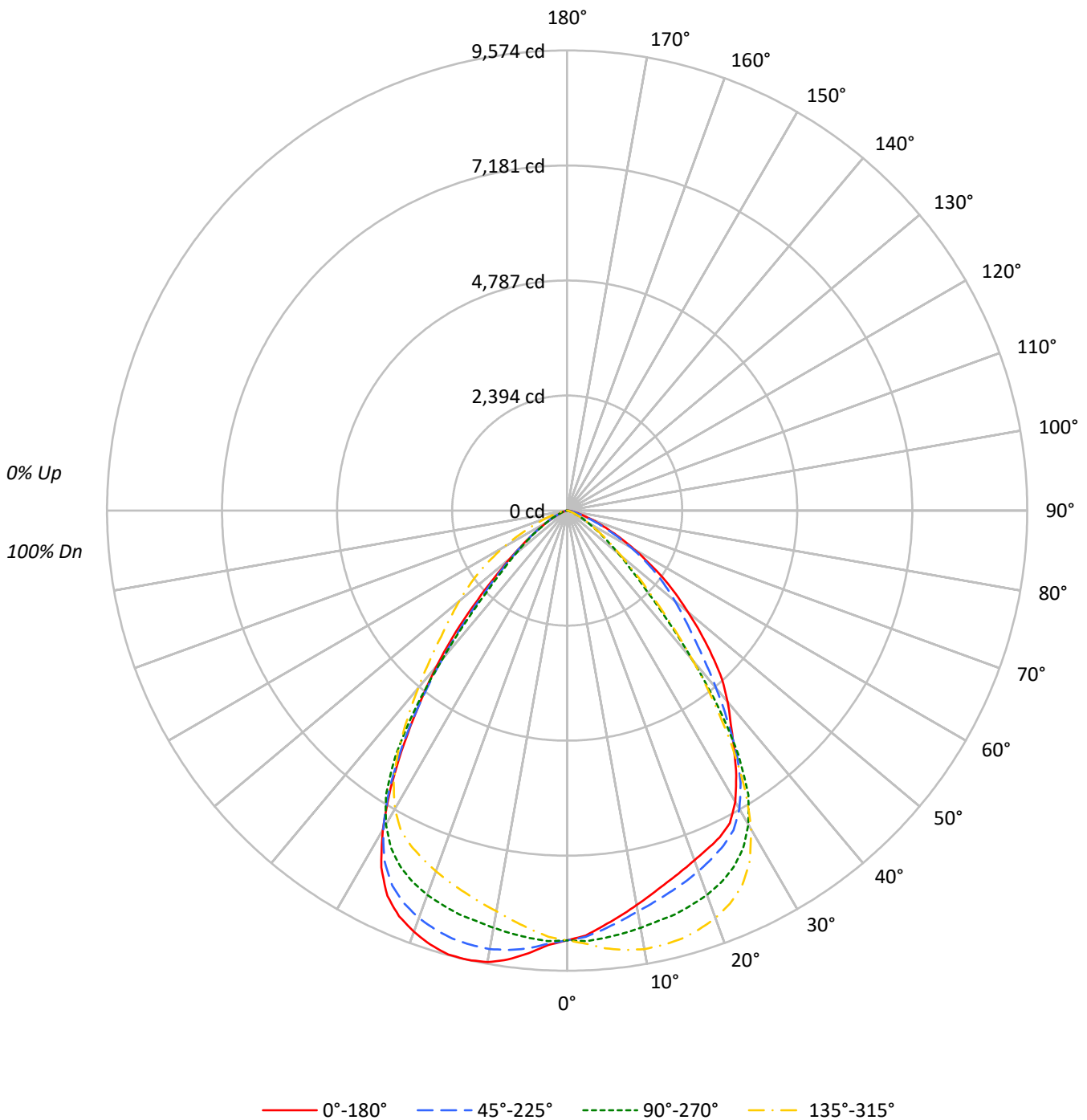
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	851.0	5.7
10°-20°	2464.3	16.4
20°-30°	3731.4	24.8
30°-40°	3739.8	24.8
40°-50°	2348.4	15.6
50°-60°	1251.5	8.3
60°-70°	514.6	3.4
70°-80°	136.0	0.9
80°-90°	23.0	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°	7046.7	46.8
0°-40°	10786.5	71.6
0°-60°	14386.4	95.5
0°-90°	15060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15060.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	8941	8941	8941	8941	8941	
5°	8670	8928	9246	8928	8670	818
15°	8011	8696	9561	8696	8011	2266
25°	7504	8190	8849	8190	7504	3442
35°	6051	6221	5902	6221	6051	3791
45°	4261	2279	2637	2279	4261	3277
55°	2423	843	890	843	2423	2160
65°	965	258	236	258	965	1001
75°	271	52	44	52	271	307
85°	57	0	4	0	57	62
90°	0	0	0	0	0	



TEST NUMBER: P248640

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6
2.5°	8849.0	8840.2	8835.9	8844.7	8849.0	8866.4	8862.1	8870.7	8870.7	8875.2	8883.9
5°	8670.0	8665.5	8670.0	8670.0	8687.5	8704.9	8700.6	8713.7	8722.3	8744.2	8752.9
7.5°	8504.2	8504.2	8499.7	8517.1	8525.9	8552.2	8547.7	8569.6	8582.7	8604.4	8635.0
10°	8333.8	8333.8	8338.1	8351.3	8355.8	8394.9	8394.9	8425.5	8442.9	8464.8	8504.2
12.5°	8168.0	8168.0	8194.2	8185.4	8202.8	8233.4	8246.5	8277.1	8303.3	8347.0	8386.3
15°	8010.8	8010.8	8019.6	8041.3	8054.4	8093.8	8115.5	8150.5	8181.1	8224.8	8281.5
17.5°	7875.4	7871.1	7875.4	7901.7	7927.9	7962.8	7980.2	8023.9	8054.4	8111.2	8163.7
20°	7740.1	7748.9	7748.9	7770.7	7788.1	7831.8	7849.2	7897.4	7932.2	7984.5	8045.8
22.5°	7622.3	7617.9	7617.9	7648.5	7661.6	7700.8	7718.2	7761.9	7801.2	7844.9	7901.7
25°	7504.4	7495.6	7513.2	7517.5	7526.1	7569.8	7582.9	7613.5	7652.8	7692.2	7748.9
27.5°	7329.7	7321.1	7325.4	7342.8	7356.0	7390.8	7399.6	7430.2	7460.7	7495.6	7543.7
30°	6993.5	6984.9	6980.6	7011.1	7024.3	7050.3	7063.4	7115.9	7124.5	7163.9	7198.7
32.5°	6548.3	6543.9	6552.7	6578.8	6591.9	6627.0	6644.4	6674.9	6696.7	6718.6	6753.5
35°	6050.7	6041.9	6050.7	6076.9	6076.9	6107.5	6120.6	6133.5	6129.2	6133.5	6124.9
37.5°	5588.0	5583.5	5588.0	5600.9	5588.0	5600.9	5588.0	5561.8	5513.8	5461.3	5408.8
40°	5195.0	5199.3	5173.3	5190.7	5142.5	5133.9	5085.9	5020.4	4924.4	4819.6	4671.2
42.5°	4776.0	4762.9	4745.4	4754.1	4714.9	4684.2	4605.6	4522.8	4400.4	4225.9	4046.8
45°	4260.8	4256.5	4247.7	4243.4	4217.1	4186.6	4121.0	4025.1	3889.7	3710.8	3496.8
47.5°	3758.8	3745.6	3745.6	3749.9	3719.4	3715.1	3662.6	3579.8	3461.9	3287.2	3064.6
50°	3278.4	3274.1	3282.9	3300.4	3278.4	3269.8	3235.0	3178.2	3073.4	2925.0	2715.3
52.5°	2846.3	2842.0	2850.8	2872.5	2863.7	2872.5	2837.7	2794.0	2724.1	2580.0	2396.7
55°	2422.9	2422.9	2422.9	2449.0	2449.0	2449.0	2431.6	2405.5	2339.9	2235.2	2065.0
57.5°	1982.0	1986.3	2012.5	2016.8	2012.5	2021.3	2016.8	1990.6	1947.1	1872.9	1741.9
60°	1610.9	1610.9	1624.0	1637.2	1632.7	1637.2	1637.2	1624.0	1580.4	1519.3	1414.5
62.5°	1274.7	1287.8	1279.0	1287.8	1305.3	1287.8	1279.0	1270.4	1239.9	1200.5	1113.2
65°	964.8	973.6	973.6	977.9	969.1	973.6	956.1	943.0	925.6	881.9	825.1
67.5°	733.5	733.5	733.5	733.5	729.0	724.7	720.4	707.3	676.7	659.3	598.0
70°	563.1	536.9	536.9	536.9	536.9	541.4	528.3	510.9	502.1	471.5	427.8
72.5°	375.4	384.2	375.4	375.4	366.7	371.1	353.6	344.8	336.2	318.8	292.5
75°	270.6	248.9	257.5	262.0	248.9	257.5	240.1	222.6	222.6	209.5	196.4
77.5°	174.7	170.3	174.7	179.0	174.7	170.3	161.5	152.7	152.7	148.4	135.3
80°	126.7	122.2	122.2	122.2	117.9	122.2	113.6	113.6	104.8	100.4	91.6
82.5°	83.0	83.0	78.5	83.0	78.5	83.0	69.9	69.9	69.9	65.4	56.8
85°	56.8	48.0	48.0	52.5	43.7	52.5	48.0	43.7	39.4	39.4	34.9
87.5°	26.2	30.5	26.2	30.5	26.2	26.2	30.5	26.2	26.2	17.4	17.4
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°	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6
2.5°	8897.0	8901.3	8901.3	8918.9	8927.5	8931.8	8931.8	8966.9	8953.8	8962.6	8971.2
5°	8770.5	8796.5	8805.3	8805.3	8853.3	8870.7	8888.2	8927.5	8931.8	8958.1	8988.6
7.5°	8648.1	8678.7	8696.3	8735.4	8766.0	8796.5	8849.0	8875.2	8901.3	8936.3	8975.5
10°	8530.2	8565.3	8600.1	8630.7	8678.7	8718.0	8752.9	8814.0	8844.7	8892.7	8945.0
12.5°	8416.8	8464.8	8495.4	8547.7	8600.1	8635.0	8687.5	8744.2	8792.2	8840.2	8901.3
15°	8316.4	8373.2	8408.0	8464.8	8521.6	8569.6	8626.4	8696.3	8731.1	8787.9	8844.7
17.5°	8207.2	8268.4	8312.1	8364.4	8434.3	8486.6	8534.7	8604.4	8648.1	8709.2	8774.8
20°	8093.8	8154.9	8207.2	8259.6	8329.5	8381.8	8438.6	8508.5	8556.5	8617.6	8670.0
22.5°	7958.5	8015.2	8071.8	8132.9	8202.8	8246.5	8312.1	8373.2	8425.5	8482.3	8534.7
25°	7783.8	7853.7	7897.4	7954.0	8010.8	8058.7	8128.6	8189.7	8233.4	8285.9	8333.8
27.5°	7578.6	7631.1	7665.9	7713.9	7770.7	7814.3	7866.6	7927.9	7971.6	8019.6	8054.4
30°	7229.3	7277.4	7308.0	7342.8	7399.6	7439.0	7482.6	7539.2	7569.8	7604.8	7635.4
32.5°	6770.9	6810.2	6827.7	6853.9	6893.3	6932.4	6967.5	7015.4	7028.6	7050.3	7050.3
35°	6107.5	6116.1	6111.8	6120.6	6138.0	6159.8	6190.3	6220.9	6238.3	6238.3	6225.4
37.5°	5330.3	5278.0	5221.2	5177.6	5164.5	5155.7	5173.3	5186.2	5203.8	5212.4	5190.7
40°	4522.8	4404.9	4278.2	4164.7	4086.1	4051.3	4038.2	4046.8	4046.8	4077.3	4077.3
42.5°	3828.7	3645.2	3457.6	3287.2	3173.7	3086.5	3047.2	3047.2	3051.5	3073.4	3086.5
45°	3252.4	3020.9	2802.6	2615.0	2457.8	2344.2	2291.9	2278.8	2274.5	2283.1	2313.7
47.5°	2811.4	2571.4	2344.2	2113.0	1947.1	1833.6	1785.6	1768.0	1750.5	1768.0	1772.5
50°	2466.6	2217.7	1977.7	1746.2	1571.6	1471.1	1410.0	1383.8	1379.5	1379.5	1388.3
52.5°	2152.1	1920.9	1680.8	1445.1	1261.6	1165.6	1108.9	1095.7	1078.3	1095.7	1095.7
55°	1855.3	1624.0	1388.3	1165.6	1012.7	912.5	860.0	842.6	833.8	846.9	846.9
57.5°	1532.4	1335.8	1117.7	916.8	764.0	694.1	654.8	633.0	628.6	637.4	628.6
60°	1257.3	1091.4	903.7	720.4	602.5	528.3	497.7	488.9	480.1	488.9	488.9
62.5°	995.3	855.7	702.8	563.1	462.7	410.4	375.4	375.4	371.1	371.1	375.4
65°	737.8	628.6	519.5	401.6	323.1	283.7	257.5	257.5	253.2	257.5	253.2
67.5°	536.9	462.7	375.4	292.5	231.4	209.5	192.1	179.0	187.8	179.0	174.7
70°	393.0	331.7	270.6	222.6	179.0	157.2	144.1	139.6	131.0	131.0	131.0
72.5°	262.0	222.6	183.3	144.1	117.9	96.0	91.6	83.0	74.2	78.5	87.3
75°	174.7	148.4	131.0	104.8	78.5	78.5	52.5	52.5	43.7	52.5	39.4
77.5°	122.2	100.4	78.5	65.4	52.5	48.0	34.9	34.9	30.5	30.5	30.5
80°	87.3	74.2	56.8	48.0	34.9	34.9	30.5	26.2	21.7	21.7	26.2
82.5°	52.5	39.4	39.4	34.9	21.7	17.4	13.1	17.4	8.8	8.8	8.8
85°	30.5	26.2	21.7	13.1	8.8	8.8	4.3	0.0	4.3	4.3	0.0
87.5°	17.4	8.8	8.8	4.3	0.0	4.3	4.3	0.0	0.0	0.0	8.8
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°	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6
2.5°	8993.1	8988.6	8997.4	8997.4	9023.7	9019.2	9032.3	9032.3	9023.7	9028.0	9045.4
5°	9023.7	9036.8	9062.8	9084.8	9123.9	9141.5	9163.3	9185.2	9189.5	9202.6	9215.8
7.5°	9023.7	9067.3	9097.9	9137.0	9189.5	9220.1	9268.0	9307.4	9324.8	9346.6	9372.8
10°	9006.1	9049.7	9106.5	9150.2	9215.8	9263.7	9311.7	9372.8	9399.0	9433.9	9468.9
12.5°	8971.2	9019.2	9080.3	9137.0	9211.3	9254.9	9316.0	9372.8	9412.2	9460.1	9499.5
15°	8918.9	8975.5	9032.3	9089.1	9167.6	9220.1	9276.8	9342.3	9381.6	9433.9	9468.9
17.5°	8835.9	8897.0	8949.4	9001.7	9076.0	9137.0	9189.5	9250.6	9290.0	9333.6	9381.6
20°	8735.4	8792.2	8849.0	8892.7	8966.9	9019.2	9076.0	9132.7	9163.3	9172.1	9246.3
22.5°	8608.9	8648.1	8691.8	8761.7	8805.3	8853.3	8905.8	8958.1	8988.6	9036.8	9062.8
25°	8399.2	8438.6	8486.6	8517.1	8569.6	8608.9	8661.2	8718.0	8735.4	8770.5	8796.5
27.5°	8106.9	8128.6	8150.5	8176.6	8207.2	8229.1	8259.6	8285.9	8303.3	8320.7	8338.1
30°	7644.0	7644.0	7644.0	7626.6	7639.7	7652.8	7657.1	7652.8	7652.8	7648.5	7648.5
32.5°	7032.9	6998.0	6958.7	6923.8	6910.7	6893.3	6884.5	6871.3	6849.6	6836.5	6840.8
35°	6207.7	6129.2	6081.2	6037.6	6002.7	5976.5	5963.4	5950.2	5945.9	5928.5	5910.9
37.5°	5177.6	5120.8	5085.9	5059.7	5029.2	5002.9	5007.2	5011.7	5024.7	5016.0	5020.4
40°	4086.1	4073.0	4086.1	4055.6	4046.8	4055.6	4077.3	4108.1	4125.5	4142.9	4173.5
42.5°	3108.3	3130.0	3160.7	3160.7	3173.7	3191.3	3217.3	3265.5	3291.6	3322.1	3357.1
45°	2339.9	2366.2	2405.5	2418.4	2427.2	2449.0	2479.7	2518.9	2536.3	2562.6	2593.1
47.5°	1803.0	1820.4	1842.2	1864.1	1885.8	1894.6	1925.2	1925.2	1947.1	1964.5	1973.2
50°	1405.7	1423.1	1440.6	1453.7	1462.5	1475.6	1484.2	1497.4	1501.7	1510.5	1514.8
52.5°	1100.1	1122.0	1122.0	1130.6	1143.7	1156.8	1152.5	1156.8	1161.2	1161.2	1174.3
55°	860.0	860.0	873.1	873.1	881.9	877.4	881.9	881.9	881.9	881.9	886.2
57.5°	641.7	646.2	659.3	650.5	646.2	654.8	646.2	654.8	650.5	659.3	646.2
60°	493.2	493.2	497.7	497.7	502.1	502.1	502.1	497.7	497.7	493.2	493.2
62.5°	371.1	375.4	379.9	375.4	375.4	375.4	371.1	371.1	366.7	362.3	362.3
65°	248.9	244.6	253.2	244.6	248.9	248.9	244.6	248.9	235.8	240.1	235.8
67.5°	179.0	174.7	170.3	174.7	170.3	165.9	165.9	170.3	174.7	161.5	161.5
70°	117.9	122.2	117.9	122.2	126.7	126.7	122.2	117.9	122.2	113.6	117.9
72.5°	74.2	74.2	74.2	74.2	74.2	78.5	78.5	78.5	69.9	69.9	65.4
75°	34.9	48.0	39.4	34.9	48.0	48.0	43.7	43.7	39.4	39.4	39.4
77.5°	34.9	26.2	26.2	26.2	26.2	26.2	26.2	26.2	21.7	26.2	21.7
80°	17.4	17.4	17.4	13.1	17.4	17.4	21.7	17.4	17.4	13.1	21.7
82.5°	8.8	8.8	8.8	0.0	4.3	8.8	8.8	4.3	8.8	8.8	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: P248640

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBSWOH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6
2.5°	9041.1	9036.8	9041.1	9045.4	9041.1	9036.8	9041.1	9045.4	9028.0	9023.7	9032.3
5°	9233.2	9233.2	9241.8	9246.3	9241.8	9233.2	9233.2	9215.8	9202.6	9189.5	9185.2
7.5°	9399.0	9407.8	9416.5	9420.8	9416.5	9407.8	9399.0	9372.8	9346.6	9324.8	9307.4
10°	9499.5	9512.6	9530.0	9538.7	9530.0	9512.6	9499.5	9468.9	9433.9	9399.0	9372.8
12.5°	9543.1	9556.3	9578.0	9573.7	9578.0	9556.3	9543.1	9499.5	9460.1	9412.2	9372.8
15°	9512.6	9530.0	9551.8	9560.6	9551.8	9530.0	9512.6	9468.9	9433.9	9381.6	9342.3
17.5°	9416.5	9442.7	9455.8	9468.9	9455.8	9442.7	9416.5	9381.6	9333.6	9290.0	9250.6
20°	9285.5	9303.1	9320.5	9324.8	9320.5	9303.1	9285.5	9246.3	9172.1	9163.3	9132.7
22.5°	9097.9	9111.0	9150.2	9137.0	9150.2	9111.0	9097.9	9062.8	9036.8	8988.6	8958.1
25°	8827.1	8840.2	8844.7	8849.0	8844.7	8840.2	8827.1	8796.5	8770.5	8735.4	8718.0
27.5°	8360.1	8360.1	8368.7	8373.2	8368.7	8360.1	8360.1	8338.1	8320.7	8303.3	8285.9
30°	7652.8	7652.8	7652.8	7674.7	7652.8	7652.8	7652.8	7648.5	7648.5	7652.8	7652.8
32.5°	6836.5	6827.7	6819.0	6827.7	6819.0	6827.7	6836.5	6840.8	6836.5	6849.6	6871.3
35°	5910.9	5906.6	5919.7	5902.3	5919.7	5906.6	5910.9	5910.9	5928.5	5945.9	5950.2
37.5°	5024.7	5016.0	5033.5	5016.0	5033.5	5016.0	5024.7	5020.4	5016.0	5024.7	5011.7
40°	4182.3	4190.9	4190.9	4225.9	4190.9	4190.9	4182.3	4173.5	4142.9	4125.5	4108.1
42.5°	3374.6	3400.8	3392.0	3418.2	3392.0	3400.8	3374.6	3357.1	3322.1	3291.6	3265.5
45°	2610.5	2628.1	2628.1	2636.8	2628.1	2628.1	2610.5	2593.1	2562.6	2536.3	2518.9
47.5°	2003.7	2003.7	2003.7	2008.2	2003.7	2003.7	2003.7	1973.2	1964.5	1947.1	1925.2
50°	1523.6	1527.9	1532.4	1536.7	1532.4	1527.9	1523.6	1514.8	1510.5	1501.7	1497.4
52.5°	1170.0	1174.3	1165.6	1174.3	1165.6	1174.3	1170.0	1174.3	1161.2	1161.2	1156.8
55°	886.2	881.9	886.2	890.5	886.2	881.9	886.2	886.2	881.9	881.9	881.9
57.5°	650.5	641.7	641.7	641.7	641.7	641.7	650.5	646.2	659.3	650.5	654.8
60°	484.6	488.9	488.9	493.2	488.9	488.9	484.6	493.2	493.2	497.7	497.7
62.5°	357.9	371.1	362.3	371.1	362.3	371.1	357.9	362.3	362.3	366.7	371.1
65°	231.4	231.4	231.4	235.8	231.4	231.4	231.4	235.8	240.1	235.8	248.9
67.5°	157.2	161.5	170.3	165.9	170.3	161.5	157.2	161.5	161.5	174.7	170.3
70°	126.7	113.6	113.6	126.7	113.6	113.6	126.7	117.9	113.6	122.2	117.9
72.5°	74.2	65.4	74.2	74.2	74.2	65.4	74.2	65.4	69.9	69.9	78.5
75°	39.4	34.9	30.5	43.7	30.5	34.9	39.4	39.4	39.4	39.4	43.7
77.5°	26.2	21.7	30.5	30.5	30.5	21.7	26.2	21.7	26.2	21.7	26.2
80°	13.1	17.4	13.1	21.7	13.1	17.4	13.1	21.7	13.1	17.4	17.4
82.5°	4.3	8.8	8.8	8.8	8.8	8.8	4.3	4.3	8.8	8.8	4.3
85°	0.0	8.8	4.3	4.3	4.3	8.8	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: P248640

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6
2.5°	9032.3	9019.2	9023.7	8997.4	8997.4	8988.6	8993.1	8971.2	8962.6	8953.8	8966.9
5°	9163.3	9141.5	9123.9	9084.8	9062.8	9036.8	9023.7	8988.6	8958.1	8931.8	8927.5
7.5°	9268.0	9220.1	9189.5	9137.0	9097.9	9067.3	9023.7	8975.5	8936.3	8901.3	8875.2
10°	9311.7	9263.7	9215.8	9150.2	9106.5	9049.7	9006.1	8945.0	8892.7	8844.7	8814.0
12.5°	9316.0	9254.9	9211.3	9137.0	9080.3	9019.2	8971.2	8901.3	8840.2	8792.2	8744.2
15°	9276.8	9220.1	9167.6	9089.1	9032.3	8975.5	8918.9	8844.7	8787.9	8731.1	8696.3
17.5°	9189.5	9137.0	9076.0	9001.7	8949.4	8897.0	8835.9	8774.8	8709.2	8648.1	8604.4
20°	9076.0	9019.2	8966.9	8892.7	8849.0	8792.2	8735.4	8670.0	8617.6	8556.5	8508.5
22.5°	8905.8	8853.3	8805.3	8761.7	8691.8	8648.1	8608.9	8534.7	8482.3	8425.5	8373.2
25°	8661.2	8608.9	8569.6	8517.1	8486.6	8438.6	8399.2	8333.8	8285.9	8233.4	8189.7
27.5°	8259.6	8229.1	8207.2	8176.6	8150.5	8128.6	8106.9	8054.4	8019.6	7971.6	7927.9
30°	7657.1	7652.8	7639.7	7626.6	7644.0	7644.0	7644.0	7635.4	7604.8	7569.8	7539.2
32.5°	6884.5	6893.3	6910.7	6923.8	6958.7	6998.0	7032.9	7050.3	7050.3	7028.6	7015.4
35°	5963.4	5976.5	6002.7	6037.6	6081.2	6129.2	6207.7	6225.4	6238.3	6238.3	6220.9
37.5°	5007.2	5002.9	5029.2	5059.7	5085.9	5120.8	5177.6	5190.7	5212.4	5203.8	5186.2
40°	4077.3	4055.6	4046.8	4055.6	4086.1	4073.0	4086.1	4077.3	4077.3	4046.8	4046.8
42.5°	3217.3	3191.3	3173.7	3160.7	3160.7	3130.0	3108.3	3086.5	3073.4	3051.5	3047.2
45°	2479.7	2449.0	2427.2	2418.4	2405.5	2366.2	2339.9	2313.7	2283.1	2274.5	2278.8
47.5°	1925.2	1894.6	1885.8	1864.1	1842.2	1820.4	1803.0	1772.5	1768.0	1750.5	1768.0
50°	1484.2	1475.6	1462.5	1453.7	1440.6	1423.1	1405.7	1388.3	1379.5	1379.5	1383.8
52.5°	1152.5	1156.8	1143.7	1130.6	1122.0	1122.0	1100.1	1095.7	1095.7	1078.3	1095.7
55°	881.9	877.4	881.9	873.1	873.1	860.0	860.0	846.9	846.9	833.8	842.6
57.5°	646.2	654.8	646.2	650.5	659.3	646.2	641.7	628.6	637.4	628.6	633.0
60°	502.1	502.1	502.1	497.7	497.7	493.2	493.2	488.9	488.9	480.1	488.9
62.5°	371.1	375.4	375.4	375.4	379.9	375.4	371.1	375.4	371.1	371.1	375.4
65°	244.6	248.9	248.9	244.6	253.2	244.6	248.9	253.2	257.5	253.2	257.5
67.5°	165.9	165.9	170.3	174.7	170.3	174.7	179.0	174.7	179.0	187.8	179.0
70°	122.2	126.7	126.7	122.2	117.9	122.2	117.9	131.0	131.0	131.0	139.6
72.5°	78.5	78.5	74.2	74.2	74.2	74.2	74.2	87.3	78.5	74.2	83.0
75°	43.7	48.0	48.0	34.9	39.4	48.0	34.9	39.4	52.5	43.7	52.5
77.5°	26.2	26.2	26.2	26.2	26.2	26.2	34.9	30.5	30.5	30.5	34.9
80°	21.7	17.4	17.4	13.1	17.4	17.4	17.4	26.2	21.7	21.7	26.2
82.5°	8.8	8.8	4.3	0.0	8.8	8.8	8.8	8.8	8.8	8.8	17.4
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	8.8	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: P248640

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBSWOH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6
2.5°	8931.8	8931.8	8927.5	8918.9	8901.3	8901.3	8897.0	8883.9	8875.2	8870.7	8870.7
5°	8888.2	8870.7	8853.3	8805.3	8805.3	8796.5	8770.5	8752.9	8744.2	8722.3	8713.7
7.5°	8849.0	8796.5	8766.0	8735.4	8696.3	8678.7	8648.1	8635.0	8604.4	8582.7	8569.6
10°	8752.9	8718.0	8678.7	8630.7	8600.1	8565.3	8530.2	8504.2	8464.8	8442.9	8425.5
12.5°	8687.5	8635.0	8600.1	8547.7	8495.4	8464.8	8416.8	8386.3	8347.0	8303.3	8277.1
15°	8626.4	8569.6	8521.6	8464.8	8408.0	8373.2	8316.4	8281.5	8224.8	8181.1	8150.5
17.5°	8534.7	8486.6	8434.3	8364.4	8312.1	8268.4	8207.2	8163.7	8111.2	8054.4	8023.9
20°	8438.6	8381.8	8329.5	8259.6	8207.2	8154.9	8093.8	8045.8	7984.5	7932.2	7897.4
22.5°	8312.1	8246.5	8202.8	8132.9	8071.8	8015.2	7958.5	7901.7	7844.9	7801.2	7761.9
25°	8128.6	8058.7	8010.8	7954.0	7897.4	7853.7	7783.8	7748.9	7692.2	7652.8	7613.5
27.5°	7866.6	7814.3	7770.7	7713.9	7665.9	7631.1	7578.6	7543.7	7495.6	7460.7	7430.2
30°	7482.6	7439.0	7399.6	7342.8	7308.0	7277.4	7229.3	7198.7	7163.9	7124.5	7115.9
32.5°	6967.5	6932.4	6893.3	6853.9	6827.7	6810.2	6770.9	6753.5	6718.6	6696.7	6674.9
35°	6190.3	6159.8	6138.0	6120.6	6111.8	6116.1	6107.5	6124.9	6133.5	6129.2	6133.5
37.5°	5173.3	5155.7	5164.5	5177.6	5221.2	5278.0	5330.3	5408.8	5461.3	5513.8	5561.8
40°	4038.2	4051.3	4086.1	4164.7	4278.2	4404.9	4522.8	4671.2	4819.6	4924.4	5020.4
42.5°	3047.2	3086.5	3173.7	3287.2	3457.6	3645.2	3828.7	4046.8	4225.9	4400.4	4522.8
45°	2291.9	2344.2	2457.8	2615.0	2802.6	3020.9	3252.4	3496.8	3710.8	3889.7	4025.1
47.5°	1785.6	1833.6	1947.1	2113.0	2344.2	2571.4	2811.4	3064.6	3287.2	3461.9	3579.8
50°	1410.0	1471.1	1571.6	1746.2	1977.7	2217.7	2466.6	2715.3	2925.0	3073.4	3178.2
52.5°	1108.9	1165.6	1261.6	1445.1	1680.8	1920.9	2152.1	2396.7	2580.0	2724.1	2794.0
55°	860.0	912.5	1012.7	1165.6	1388.3	1624.0	1855.3	2065.0	2235.2	2339.9	2405.5
57.5°	654.8	694.1	764.0	916.8	1117.7	1335.8	1532.4	1741.9	1872.9	1947.1	1990.6
60°	497.7	528.3	602.5	720.4	903.7	1091.4	1257.3	1414.5	1519.3	1580.4	1624.0
62.5°	375.4	410.4	462.7	563.1	702.8	855.7	995.3	1113.2	1200.5	1239.9	1270.4
65°	257.5	283.7	323.1	401.6	519.5	628.6	737.8	825.1	881.9	925.6	943.0
67.5°	192.1	209.5	231.4	292.5	375.4	462.7	536.9	598.0	659.3	676.7	707.3
70°	144.1	157.2	179.0	222.6	270.6	331.7	393.0	427.8	471.5	502.1	510.9
72.5°	91.6	96.0	117.9	144.1	183.3	222.6	262.0	292.5	318.8	336.2	344.8
75°	52.5	78.5	78.5	104.8	131.0	148.4	174.7	196.4	209.5	222.6	222.6
77.5°	34.9	48.0	52.5	65.4	78.5	100.4	122.2	135.3	148.4	152.7	152.7
80°	30.5	34.9	34.9	48.0	56.8	74.2	87.3	91.6	100.4	104.8	113.6
82.5°	13.1	17.4	21.7	34.9	39.4	39.4	52.5	56.8	65.4	69.9	69.9
85°	4.3	8.8	8.8	13.1	21.7	26.2	30.5	34.9	39.4	39.4	43.7
87.5°	4.3	4.3	0.0	4.3	8.8	8.8	17.4	17.4	17.4	26.2	26.2
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: P248640

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBSWOH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6	8940.6
2.5°	8862.1	8866.4	8849.0	8844.7	8835.9	8840.2	8849.0
5°	8700.6	8704.9	8687.5	8670.0	8670.0	8665.5	8670.0
7.5°	8547.7	8552.2	8525.9	8517.1	8499.7	8504.2	8504.2
10°	8394.9	8394.9	8355.8	8351.3	8338.1	8333.8	8333.8
12.5°	8246.5	8233.4	8202.8	8185.4	8194.2	8168.0	8168.0
15°	8115.5	8093.8	8054.4	8041.3	8019.6	8010.8	8010.8
17.5°	7980.2	7962.8	7927.9	7901.7	7875.4	7871.1	7875.4
20°	7849.2	7831.8	7788.1	7770.7	7748.9	7748.9	7740.1
22.5°	7718.2	7700.8	7661.6	7648.5	7617.9	7617.9	7622.3
25°	7582.9	7569.8	7526.1	7517.5	7513.2	7495.6	7504.4
27.5°	7399.6	7390.8	7356.0	7342.8	7325.4	7321.1	7329.7
30°	7063.4	7050.3	7024.3	7011.1	6980.6	6984.9	6993.5
32.5°	6644.4	6627.0	6591.9	6578.8	6552.7	6543.9	6548.3
35°	6120.6	6107.5	6076.9	6076.9	6050.7	6041.9	6050.7
37.5°	5588.0	5600.9	5588.0	5600.9	5588.0	5583.5	5588.0
40°	5085.9	5133.9	5142.5	5190.7	5173.3	5199.3	5195.0
42.5°	4605.6	4684.2	4714.9	4754.1	4745.4	4762.9	4776.0
45°	4121.0	4186.6	4217.1	4243.4	4247.7	4256.5	4260.8
47.5°	3662.6	3715.1	3719.4	3749.9	3745.6	3745.6	3758.8
50°	3235.0	3269.8	3278.4	3300.4	3282.9	3274.1	3278.4
52.5°	2837.7	2872.5	2863.7	2872.5	2850.8	2842.0	2846.3
55°	2431.6	2449.0	2449.0	2449.0	2422.9	2422.9	2422.9
57.5°	2016.8	2021.3	2012.5	2016.8	2012.5	1986.3	1982.0
60°	1637.2	1637.2	1632.7	1637.2	1624.0	1610.9	1610.9
62.5°	1279.0	1287.8	1305.3	1287.8	1279.0	1287.8	1274.7
65°	956.1	973.6	969.1	977.9	973.6	973.6	964.8
67.5°	720.4	724.7	729.0	733.5	733.5	733.5	733.5
70°	528.3	541.4	536.9	536.9	536.9	536.9	563.1
72.5°	353.6	371.1	366.7	375.4	375.4	384.2	375.4
75°	240.1	257.5	248.9	262.0	257.5	248.9	270.6
77.5°	161.5	170.3	174.7	179.0	174.7	170.3	174.7
80°	113.6	122.2	117.9	122.2	122.2	122.2	126.7
82.5°	69.9	83.0	78.5	83.0	78.5	83.0	83.0
85°	48.0	52.5	43.7	52.5	48.0	48.0	56.8
87.5°	30.5	26.2	26.2	30.5	26.2	30.5	26.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)