

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: P248548

Luminaire Tested: **LD8B150D010 ER8B150827 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248548  
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: LD8B150D010 ER8B150827 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15247.0 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

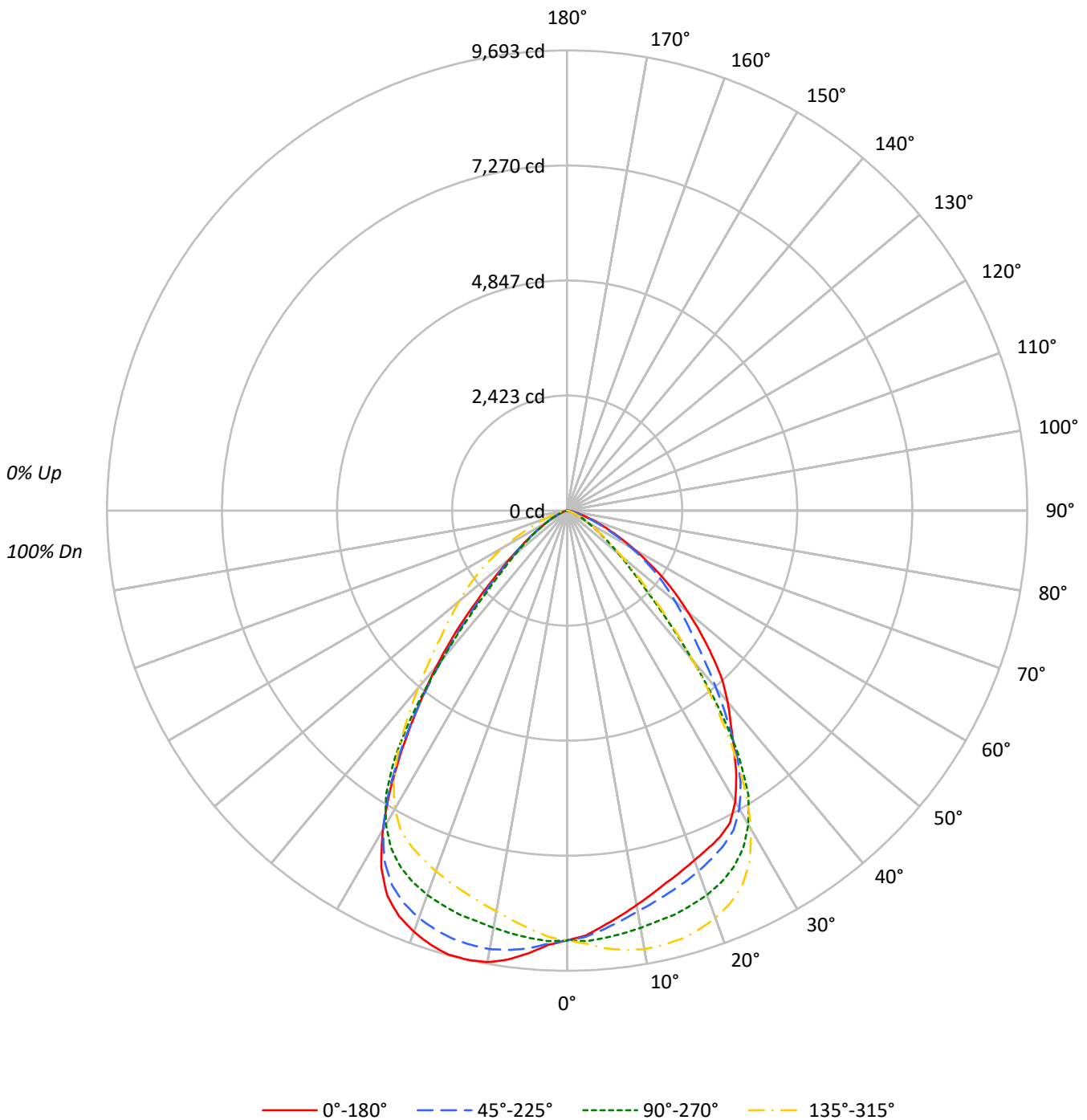
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	279121	279121	279121	279121
5°	271706	279776	289764	279776
10°	264189	279410	302383	279410
15°	258911	281066	309003	281066
20°	257147	282674	309796	282674
25°	258502	282107	304819	282107
30°	252110	271782	276664	271782
35°	230601	237087	224947	237087
40°	211716	164920	172222	164920
45°	188117	100611	116415	100611
50°	159226	67210	74636	67210
55°	131877	45859	48471	45859
60°	100582	30528	30799	30528
65°	71265	19022	17417	19022
70°	51400	12749	11567	12749
75°	32645	6326	5266	6326
80°	22783	4724	3907	4724
85°	20344	0	1557	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	861.5	5.7
10°-20°	2494.9	16.4
20°-30°	3777.8	24.8
30°-40°	3786.3	24.8
40°-50°	2377.6	15.6
50°-60°	1267.0	8.3
60°-70°	521.0	3.4
70°-80°	137.6	0.9
80°-90°	23.3	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7134.2	46.8
0°-40°	10920.5	71.6
0°-60°	14565.1	95.5
0°-90°	15247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15247.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	9052	9052	9052	9052	9052	
5°	8778	9038	9361	9038	8778	828
15°	8110	8804	9679	8804	8110	2294
25°	7598	8291	8959	8291	7598	3485
35°	6126	6298	5976	6298	6126	3838
45°	4314	2307	2670	2307	4314	3318
55°	2453	853	902	853	2453	2187
65°	977	261	239	261	977	1013
75°	274	53	44	53	274	310
85°	58	0	4	0	58	63
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°	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7
2.5°	8958.9	8950.0	8945.6	8954.5	8958.9	8976.5	8972.2	8980.9	8980.9	8985.4	8994.2
5°	8777.7	8773.1	8777.7	8777.7	8795.3	8813.0	8808.6	8821.9	8830.6	8852.8	8861.6
7.5°	8609.8	8609.8	8605.2	8622.9	8631.8	8658.3	8653.8	8676.0	8689.3	8711.3	8742.2
10°	8437.3	8437.3	8441.7	8455.0	8459.5	8499.2	8499.2	8530.1	8547.7	8569.9	8609.8
12.5°	8269.4	8269.4	8296.0	8287.0	8304.7	8335.6	8348.9	8379.8	8406.4	8450.6	8490.4
15°	8110.2	8110.2	8119.1	8141.1	8154.4	8194.3	8216.3	8251.8	8282.7	8326.9	8384.4
17.5°	7973.2	7968.9	7973.2	7999.8	8026.4	8061.6	8079.3	8123.5	8154.4	8211.9	8265.0
20°	7836.2	7845.2	7845.2	7867.2	7884.8	7929.0	7946.7	7995.4	8030.7	8083.7	8145.7
22.5°	7716.9	7712.5	7712.5	7743.5	7756.7	7796.4	7814.1	7858.3	7898.1	7942.3	7999.8
25°	7597.6	7588.7	7606.5	7610.8	7619.6	7663.8	7677.1	7708.0	7747.8	7787.7	7845.2
27.5°	7420.7	7412.0	7416.4	7434.0	7447.3	7482.6	7491.5	7522.4	7553.4	7588.7	7637.4
30°	7080.4	7071.6	7067.3	7098.2	7111.5	7137.9	7151.1	7204.3	7213.0	7252.8	7288.1
32.5°	6629.6	6625.2	6634.1	6660.5	6673.8	6709.2	6726.9	6757.8	6779.8	6802.0	6837.3
35°	6125.8	6116.9	6125.8	6152.4	6152.4	6183.3	6196.6	6209.7	6205.3	6209.7	6201.0
37.5°	5657.4	5652.8	5657.4	5670.5	5657.4	5670.5	5657.4	5630.8	5582.2	5529.1	5476.0
40°	5259.5	5263.9	5237.5	5255.2	5206.4	5197.7	5149.1	5082.7	4985.5	4879.5	4729.2
42.5°	4835.3	4822.0	4804.4	4813.1	4773.4	4742.3	4662.8	4579.0	4455.1	4278.4	4097.0
45°	4313.7	4309.3	4300.4	4296.1	4269.5	4238.6	4172.2	4075.0	3938.0	3756.9	3540.2
47.5°	3805.4	3792.1	3792.1	3796.5	3765.6	3761.2	3708.1	3624.2	3504.9	3328.1	3102.7
50°	3319.1	3314.8	3323.7	3341.3	3319.1	3310.4	3275.1	3217.6	3111.6	2961.3	2749.0
52.5°	2881.6	2877.3	2886.2	2908.2	2899.3	2908.2	2872.9	2828.7	2757.9	2612.0	2426.5
55°	2453.0	2453.0	2453.0	2479.4	2479.4	2479.4	2461.8	2435.4	2369.0	2262.9	2090.6
57.5°	2006.6	2011.0	2037.5	2041.9	2037.5	2046.4	2041.9	2015.3	1971.3	1896.2	1763.5
60°	1630.9	1630.9	1644.2	1657.5	1652.9	1657.5	1657.5	1644.2	1600.0	1538.1	1432.1
62.5°	1290.5	1303.8	1294.9	1303.8	1321.5	1303.8	1294.9	1286.2	1255.3	1215.4	1127.0
65°	976.7	985.6	985.6	990.0	981.1	985.6	968.0	954.7	937.1	892.9	835.4
67.5°	742.6	742.6	742.6	742.6	738.1	733.7	729.3	716.0	685.1	667.5	605.4
70°	570.1	543.6	543.6	543.6	543.6	548.1	534.8	517.2	508.3	477.4	433.2
72.5°	380.0	388.9	380.0	380.0	371.3	375.7	358.0	349.1	340.4	322.7	296.2
75°	274.0	252.0	260.7	265.2	252.0	260.7	243.0	225.4	225.4	212.1	198.8
77.5°	176.8	172.5	176.8	181.2	176.8	172.5	163.5	154.6	154.6	150.3	137.0
80°	128.3	123.7	123.7	123.7	119.3	123.7	115.0	115.0	106.1	101.7	92.8
82.5°	84.0	84.0	79.5	84.0	79.5	84.0	70.8	70.8	70.8	66.2	57.5
85°	57.5	48.6	48.6	53.1	44.2	53.1	48.6	44.2	39.8	39.8	35.3
87.5°	26.6	30.9	26.6	30.9	26.6	26.6	30.9	26.6	26.6	17.6	17.6
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°	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7
2.5°	9007.5	9011.8	9011.8	9029.6	9038.4	9042.7	9042.7	9078.2	9064.9	9073.9	9082.6
5°	8879.4	8905.8	8914.7	8914.7	8963.2	8980.9	8998.5	9038.4	9042.7	9069.3	9100.2
7.5°	8755.5	8786.4	8804.2	8843.9	8874.8	8905.8	8958.9	8985.4	9011.8	9047.3	9087.0
10°	8636.2	8671.6	8706.9	8737.8	8786.4	8826.3	8861.6	8923.4	8954.5	9003.1	9056.0
12.5°	8521.4	8569.9	8600.9	8653.8	8706.9	8742.2	8795.3	8852.8	8901.4	8950.0	9011.8
15°	8419.7	8477.2	8512.4	8569.9	8627.4	8676.0	8733.5	8804.2	8839.5	8897.0	8954.5
17.5°	8309.1	8371.1	8415.3	8468.2	8539.0	8591.9	8640.7	8711.3	8755.5	8817.3	8883.7
20°	8194.3	8256.1	8309.1	8362.2	8432.9	8485.9	8543.4	8614.1	8662.7	8724.6	8777.7
22.5°	8057.3	8114.8	8172.1	8233.9	8304.7	8348.9	8415.3	8477.2	8530.1	8587.6	8640.7
25°	7880.5	7951.2	7995.4	8052.7	8110.2	8158.8	8229.6	8291.4	8335.6	8388.7	8437.3
27.5°	7672.7	7725.8	7761.1	7809.7	7867.2	7911.4	7964.3	8026.4	8070.6	8119.1	8154.4
30°	7319.0	7367.8	7398.7	7434.0	7491.5	7531.3	7575.6	7632.9	7663.8	7699.3	7730.2
32.5°	6855.0	6894.8	6912.5	6939.0	6978.9	7018.5	7054.0	7102.6	7115.8	7137.9	7137.9
35°	6183.3	6192.0	6187.7	6196.6	6214.2	6236.3	6267.2	6298.1	6315.8	6315.8	6302.7
37.5°	5396.5	5343.6	5286.1	5241.9	5228.6	5219.7	5237.5	5250.6	5268.4	5277.2	5255.2
40°	4579.0	4459.6	4331.4	4216.4	4136.9	4101.6	4088.3	4097.0	4097.0	4128.0	4128.0
42.5°	3876.2	3690.4	3500.5	3328.1	3213.1	3124.9	3085.0	3085.0	3089.4	3111.6	3124.9
45°	3292.8	3058.5	2837.4	2647.5	2488.3	2373.3	2320.4	2307.1	2302.8	2311.5	2342.4
47.5°	2846.3	2603.3	2373.3	2139.2	1971.3	1856.3	1807.7	1789.9	1772.3	1789.9	1794.5
50°	2497.2	2245.3	2002.2	1767.9	1591.1	1489.4	1427.5	1401.0	1396.6	1396.6	1405.5
52.5°	2178.9	1944.7	1701.7	1463.0	1277.3	1180.1	1122.6	1109.4	1091.7	1109.4	1109.4
55°	1878.3	1644.2	1405.5	1180.1	1025.3	923.8	870.7	853.0	844.1	857.4	857.4
57.5°	1551.4	1352.4	1131.5	928.2	773.5	702.8	662.9	640.9	636.4	645.3	636.4
60°	1272.9	1105.0	914.9	729.3	610.0	534.8	503.9	495.0	486.1	495.0	495.0
62.5°	1007.7	866.3	711.5	570.1	468.4	415.5	380.0	380.0	375.7	375.7	380.0
65°	747.0	636.4	525.9	406.6	327.1	287.3	260.7	260.7	256.3	260.7	256.3
67.5°	543.6	468.4	380.0	296.2	234.3	212.1	194.5	181.2	190.1	181.2	176.8
70°	397.9	335.8	274.0	225.4	181.2	159.2	145.9	141.4	132.6	132.6	132.6
72.5°	265.2	225.4	185.6	145.9	119.3	97.1	92.8	84.0	75.1	79.5	88.4
75°	176.8	150.3	132.6	106.1	79.5	79.5	53.1	53.1	44.2	53.1	39.8
77.5°	123.7	101.7	79.5	66.2	53.1	48.6	35.3	35.3	30.9	30.9	30.9
80°	88.4	75.1	57.5	48.6	35.3	35.3	30.9	26.6	22.0	22.0	26.6
82.5°	53.1	39.8	39.8	35.3	22.0	17.6	13.3	17.6	8.9	8.9	8.9
85°	30.9	26.6	22.0	13.3	8.9	8.9	4.4	0.0	4.4	4.4	0.0
87.5°	17.6	8.9	8.9	4.4	0.0	4.4	4.4	0.0	0.0	0.0	8.9
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°	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7
2.5°	9104.8	9100.2	9109.1	9109.1	9135.7	9131.2	9144.4	9144.4	9135.7	9140.1	9157.7
5°	9135.7	9149.0	9175.4	9197.6	9237.2	9255.0	9277.1	9299.3	9303.6	9316.9	9330.2
7.5°	9135.7	9179.9	9210.8	9250.5	9303.6	9334.5	9383.1	9423.0	9440.6	9462.6	9489.2
10°	9117.9	9162.1	9219.6	9263.8	9330.2	9378.8	9427.3	9489.2	9515.7	9551.0	9586.5
12.5°	9082.6	9131.2	9193.0	9250.5	9325.6	9369.8	9431.7	9489.2	9529.0	9577.6	9617.4
15°	9029.6	9087.0	9144.4	9201.9	9281.4	9334.5	9392.0	9458.3	9498.1	9551.0	9586.5
17.5°	8945.6	9007.5	9060.6	9113.5	9188.6	9250.5	9303.6	9365.5	9405.3	9449.5	9498.1
20°	8843.9	8901.4	8958.9	9003.1	9078.2	9131.2	9188.6	9246.1	9277.1	9286.0	9361.1
22.5°	8715.8	8755.5	8799.7	8870.5	8914.7	8963.2	9016.4	9069.3	9100.2	9149.0	9175.4
25°	8503.5	8543.4	8591.9	8622.9	8676.0	8715.8	8768.8	8826.3	8843.9	8879.4	8905.8
27.5°	8207.5	8229.6	8251.8	8278.1	8309.1	8331.3	8362.2	8388.7	8406.4	8424.0	8441.7
30°	7738.9	7738.9	7738.9	7721.3	7734.6	7747.8	7752.2	7747.8	7747.8	7743.5	7743.5
32.5°	7120.2	7084.9	7045.1	7009.8	6996.5	6978.9	6969.9	6956.7	6934.6	6921.4	6925.7
35°	6284.8	6205.3	6156.8	6112.5	6077.3	6050.7	6037.4	6024.1	6019.8	6002.1	5984.3
37.5°	5241.9	5184.4	5149.1	5122.5	5091.6	5065.0	5069.4	5074.0	5087.1	5078.3	5082.7
40°	4136.9	4123.6	4136.9	4106.0	4097.0	4106.0	4128.0	4159.1	4176.7	4194.4	4225.3
42.5°	3146.9	3168.9	3200.0	3200.0	3213.1	3230.9	3257.3	3306.1	3332.4	3363.4	3398.8
45°	2369.0	2395.5	2435.4	2448.5	2457.4	2479.4	2510.5	2550.2	2567.8	2594.4	2625.3
47.5°	1825.4	1843.0	1865.1	1887.2	1909.3	1918.2	1949.1	1949.1	1971.3	1988.9	1997.7
50°	1423.2	1440.8	1458.5	1471.7	1480.7	1493.9	1502.7	1515.9	1520.3	1529.2	1533.6
52.5°	1113.7	1135.9	1135.9	1144.6	1157.9	1171.2	1166.8	1171.2	1175.6	1175.6	1188.9
55°	870.7	870.7	884.0	884.0	892.9	888.3	892.9	892.9	892.9	892.9	897.2
57.5°	649.6	654.2	667.5	658.6	654.2	662.9	654.2	662.9	658.6	667.5	654.2
60°	499.4	499.4	503.9	503.9	508.3	508.3	508.3	503.9	503.9	499.4	499.4
62.5°	375.7	380.0	384.6	380.0	380.0	380.0	375.7	375.7	371.3	366.8	366.8
65°	252.0	247.6	256.3	247.6	252.0	252.0	247.6	252.0	238.7	243.0	238.7
67.5°	181.2	176.8	172.5	176.8	172.5	167.9	167.9	172.5	176.8	163.5	163.5
70°	119.3	123.7	119.3	123.7	128.3	128.3	123.7	119.3	123.7	115.0	119.3
72.5°	75.1	75.1	75.1	75.1	75.1	79.5	79.5	79.5	70.8	70.8	66.2
75°	35.3	48.6	39.8	35.3	48.6	48.6	44.2	44.2	39.8	39.8	39.8
77.5°	35.3	26.6	26.6	26.6	26.6	26.6	26.6	26.6	22.0	26.6	22.0
80°	17.6	17.6	17.6	13.3	17.6	17.6	22.0	17.6	17.6	13.3	22.0
82.5°	8.9	8.9	8.9	0.0	4.4	8.9	8.9	4.4	8.9	8.9	4.4
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: P248548

CATALOG NUMBER: LD8B150D010 ER8B150827 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7
2.5°	9153.4	9149.0	9153.4	9157.7	9153.4	9149.0	9153.4	9157.7	9140.1	9135.7	9144.4
5°	9347.8	9347.8	9356.6	9361.1	9356.6	9347.8	9347.8	9330.2	9316.9	9303.6	9299.3
7.5°	9515.7	9524.7	9533.4	9537.8	9533.4	9524.7	9515.7	9489.2	9462.6	9440.6	9423.0
10°	9617.4	9630.7	9648.4	9657.1	9648.4	9630.7	9617.4	9586.5	9551.0	9515.7	9489.2
12.5°	9661.6	9674.9	9696.9	9692.6	9696.9	9674.9	9661.6	9617.4	9577.6	9529.0	9489.2
15°	9630.7	9648.4	9670.4	9679.3	9670.4	9648.4	9630.7	9586.5	9551.0	9498.1	9458.3
17.5°	9533.4	9559.9	9573.2	9586.5	9573.2	9559.9	9533.4	9498.1	9449.5	9405.3	9365.5
20°	9400.8	9418.6	9436.2	9440.6	9436.2	9418.6	9400.8	9361.1	9286.0	9277.1	9246.1
22.5°	9210.8	9224.1	9263.8	9250.5	9263.8	9224.1	9210.8	9175.4	9149.0	9100.2	9069.3
25°	8936.7	8950.0	8954.5	8958.9	8954.5	8950.0	8936.7	8905.8	8879.4	8843.9	8826.3
27.5°	8463.9	8463.9	8472.6	8477.2	8472.6	8463.9	8463.9	8441.7	8424.0	8406.4	8388.7
30°	7747.8	7747.8	7747.8	7770.0	7747.8	7747.8	7747.8	7743.5	7743.5	7747.8	7747.8
32.5°	6921.4	6912.5	6903.7	6912.5	6903.7	6912.5	6921.4	6925.7	6921.4	6934.6	6956.7
35°	5984.3	5979.9	5993.2	5975.6	5993.2	5979.9	5984.3	5984.3	6002.1	6019.8	6024.1
37.5°	5087.1	5078.3	5096.0	5078.3	5096.0	5078.3	5087.1	5082.7	5078.3	5087.1	5074.0
40°	4234.2	4242.9	4242.9	4278.4	4242.9	4242.9	4234.2	4225.3	4194.4	4176.7	4159.1
42.5°	3416.5	3443.0	3434.1	3460.7	3434.1	3443.0	3416.5	3398.8	3363.4	3332.4	3306.1
45°	2642.9	2660.8	2660.8	2669.5	2660.8	2660.8	2642.9	2625.3	2594.4	2567.8	2550.2
47.5°	2028.6	2028.6	2028.6	2033.1	2028.6	2028.6	2028.6	1997.7	1988.9	1971.3	1949.1
50°	1542.5	1546.9	1551.4	1555.8	1551.4	1546.9	1542.5	1533.6	1529.2	1520.3	1515.9
52.5°	1184.5	1188.9	1180.1	1188.9	1180.1	1188.9	1184.5	1188.9	1175.6	1175.6	1171.2
55°	897.2	892.9	897.2	901.6	897.2	892.9	897.2	897.2	892.9	892.9	892.9
57.5°	658.6	649.6	649.6	649.6	649.6	649.6	658.6	654.2	667.5	658.6	662.9
60°	490.6	495.0	495.0	499.4	495.0	495.0	490.6	499.4	499.4	503.9	503.9
62.5°	362.4	375.7	366.8	375.7	366.8	375.7	362.4	366.8	366.8	371.3	375.7
65°	234.3	234.3	234.3	238.7	234.3	234.3	234.3	238.7	243.0	238.7	252.0
67.5°	159.2	163.5	172.5	167.9	172.5	163.5	159.2	163.5	163.5	176.8	172.5
70°	128.3	115.0	115.0	128.3	115.0	115.0	128.3	119.3	115.0	123.7	119.3
72.5°	75.1	66.2	75.1	75.1	75.1	66.2	75.1	66.2	70.8	70.8	79.5
75°	39.8	35.3	30.9	44.2	30.9	35.3	39.8	39.8	39.8	39.8	44.2
77.5°	26.6	22.0	30.9	30.9	30.9	22.0	26.6	22.0	26.6	22.0	26.6
80°	13.3	17.6	13.3	22.0	13.3	17.6	13.3	22.0	13.3	17.6	17.6
82.5°	4.4	8.9	8.9	8.9	8.9	8.9	4.4	4.4	8.9	8.9	4.4
85°	0.0	8.9	4.4	4.4	4.4	8.9	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	0.0	0.0	4.4	0.0	0.0	4.4	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: P248548

CATALOG NUMBER: LD8B150D010 ER8B150827 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7
2.5°	9144.4	9131.2	9135.7	9109.1	9109.1	9100.2	9104.8	9082.6	9073.9	9064.9	9078.2
5°	9277.1	9255.0	9237.2	9197.6	9175.4	9149.0	9135.7	9100.2	9069.3	9042.7	9038.4
7.5°	9383.1	9334.5	9303.6	9250.5	9210.8	9179.9	9135.7	9087.0	9047.3	9011.8	8985.4
10°	9427.3	9378.8	9330.2	9263.8	9219.6	9162.1	9117.9	9056.0	9003.1	8954.5	8923.4
12.5°	9431.7	9369.8	9325.6	9250.5	9193.0	9131.2	9082.6	9011.8	8950.0	8901.4	8852.8
15°	9392.0	9334.5	9281.4	9201.9	9144.4	9087.0	9029.6	8954.5	8897.0	8839.5	8804.2
17.5°	9303.6	9250.5	9188.6	9113.5	9060.6	9007.5	8945.6	8883.7	8817.3	8755.5	8711.3
20°	9188.6	9131.2	9078.2	9003.1	8958.9	8901.4	8843.9	8777.7	8724.6	8662.7	8614.1
22.5°	9016.4	8963.2	8914.7	8870.5	8799.7	8755.5	8715.8	8640.7	8587.6	8530.1	8477.2
25°	8768.8	8715.8	8676.0	8622.9	8591.9	8543.4	8503.5	8437.3	8388.7	8335.6	8291.4
27.5°	8362.2	8331.3	8309.1	8278.1	8251.8	8229.6	8207.5	8154.4	8119.1	8070.6	8026.4
30°	7752.2	7747.8	7734.6	7721.3	7738.9	7738.9	7738.9	7730.2	7699.3	7663.8	7632.9
32.5°	6969.9	6978.9	6996.5	7009.8	7045.1	7084.9	7120.2	7137.9	7137.9	7115.8	7102.6
35°	6037.4	6050.7	6077.3	6112.5	6156.8	6205.3	6284.8	6302.7	6315.8	6315.8	6298.1
37.5°	5069.4	5065.0	5091.6	5122.5	5149.1	5184.4	5241.9	5255.2	5277.2	5268.4	5250.6
40°	4128.0	4106.0	4097.0	4106.0	4136.9	4123.6	4136.9	4128.0	4128.0	4097.0	4097.0
42.5°	3257.3	3230.9	3213.1	3200.0	3200.0	3168.9	3146.9	3124.9	3111.6	3089.4	3085.0
45°	2510.5	2479.4	2457.4	2448.5	2435.4	2395.5	2369.0	2342.4	2311.5	2302.8	2307.1
47.5°	1949.1	1918.2	1909.3	1887.2	1865.1	1843.0	1825.4	1794.5	1789.9	1772.3	1789.9
50°	1502.7	1493.9	1480.7	1471.7	1458.5	1440.8	1423.2	1405.5	1396.6	1396.6	1401.0
52.5°	1166.8	1171.2	1157.9	1144.6	1135.9	1135.9	1113.7	1109.4	1109.4	1091.7	1109.4
55°	892.9	888.3	892.9	884.0	884.0	870.7	870.7	857.4	857.4	844.1	853.0
57.5°	654.2	662.9	654.2	658.6	667.5	654.2	649.6	636.4	645.3	636.4	640.9
60°	508.3	508.3	508.3	503.9	503.9	499.4	499.4	495.0	495.0	486.1	495.0
62.5°	375.7	380.0	380.0	380.0	384.6	380.0	375.7	380.0	375.7	375.7	380.0
65°	247.6	252.0	252.0	247.6	256.3	247.6	252.0	256.3	260.7	256.3	260.7
67.5°	167.9	167.9	172.5	176.8	172.5	176.8	181.2	176.8	181.2	190.1	181.2
70°	123.7	128.3	128.3	123.7	119.3	123.7	119.3	132.6	132.6	132.6	141.4
72.5°	79.5	79.5	75.1	75.1	75.1	75.1	75.1	88.4	79.5	75.1	84.0
75°	44.2	48.6	48.6	35.3	39.8	48.6	35.3	39.8	53.1	44.2	53.1
77.5°	26.6	26.6	26.6	26.6	26.6	26.6	35.3	30.9	30.9	30.9	35.3
80°	22.0	17.6	17.6	13.3	17.6	17.6	17.6	26.6	22.0	22.0	26.6
82.5°	8.9	8.9	4.4	0.0	8.9	8.9	8.9	8.9	8.9	8.9	17.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	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: P248548

CATALOG NUMBER: LD8B150D010 ER8B150827 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7
2.5°	9042.7	9042.7	9038.4	9029.6	9011.8	9011.8	9007.5	8994.2	8985.4	8980.9	8980.9
5°	8998.5	8980.9	8963.2	8914.7	8914.7	8905.8	8879.4	8861.6	8852.8	8830.6	8821.9
7.5°	8958.9	8905.8	8874.8	8843.9	8804.2	8786.4	8755.5	8742.2	8711.3	8689.3	8676.0
10°	8861.6	8826.3	8786.4	8737.8	8706.9	8671.6	8636.2	8609.8	8569.9	8547.7	8530.1
12.5°	8795.3	8742.2	8706.9	8653.8	8600.9	8569.9	8521.4	8490.4	8450.6	8406.4	8379.8
15°	8733.5	8676.0	8627.4	8569.9	8512.4	8477.2	8419.7	8384.4	8326.9	8282.7	8251.8
17.5°	8640.7	8591.9	8539.0	8468.2	8415.3	8371.1	8309.1	8265.0	8211.9	8154.4	8123.5
20°	8543.4	8485.9	8432.9	8362.2	8309.1	8256.1	8194.3	8145.7	8083.7	8030.7	7995.4
22.5°	8415.3	8348.9	8304.7	8233.9	8172.1	8114.8	8057.3	7999.8	7942.3	7898.1	7858.3
25°	8229.6	8158.8	8110.2	8052.7	7995.4	7951.2	7880.5	7845.2	7787.7	7747.8	7708.0
27.5°	7964.3	7911.4	7867.2	7809.7	7761.1	7725.8	7672.7	7637.4	7588.7	7553.4	7522.4
30°	7575.6	7531.3	7491.5	7434.0	7398.7	7367.8	7319.0	7288.1	7252.8	7213.0	7204.3
32.5°	7054.0	7018.5	6978.9	6939.0	6912.5	6894.8	6855.0	6837.3	6802.0	6779.8	6757.8
35°	6267.2	6236.3	6214.2	6196.6	6187.7	6192.0	6183.3	6201.0	6209.7	6205.3	6209.7
37.5°	5237.5	5219.7	5228.6	5241.9	5286.1	5343.6	5396.5	5476.0	5529.1	5582.2	5630.8
40°	4088.3	4101.6	4136.9	4216.4	4331.4	4459.6	4579.0	4729.2	4879.5	4985.5	5082.7
42.5°	3085.0	3124.9	3213.1	3328.1	3500.5	3690.4	3876.2	4097.0	4278.4	4455.1	4579.0
45°	2320.4	2373.3	2488.3	2647.5	2837.4	3058.5	3292.8	3540.2	3756.9	3938.0	4075.0
47.5°	1807.7	1856.3	1971.3	2139.2	2373.3	2603.3	2846.3	3102.7	3328.1	3504.9	3624.2
50°	1427.5	1489.4	1591.1	1767.9	2002.2	2245.3	2497.2	2749.0	2961.3	3111.6	3217.6
52.5°	1122.6	1180.1	1277.3	1463.0	1701.7	1944.7	2178.9	2426.5	2612.0	2757.9	2828.7
55°	870.7	923.8	1025.3	1180.1	1405.5	1644.2	1878.3	2090.6	2262.9	2369.0	2435.4
57.5°	662.9	702.8	773.5	928.2	1131.5	1352.4	1551.4	1763.5	1896.2	1971.3	2015.3
60°	503.9	534.8	610.0	729.3	914.9	1105.0	1272.9	1432.1	1538.1	1600.0	1644.2
62.5°	380.0	415.5	468.4	570.1	711.5	866.3	1007.7	1127.0	1215.4	1255.3	1286.2
65°	260.7	287.3	327.1	406.6	525.9	636.4	747.0	835.4	892.9	937.1	954.7
67.5°	194.5	212.1	234.3	296.2	380.0	468.4	543.6	605.4	667.5	685.1	716.0
70°	145.9	159.2	181.2	225.4	274.0	335.8	397.9	433.2	477.4	508.3	517.2
72.5°	92.8	97.1	119.3	145.9	185.6	225.4	265.2	296.2	322.7	340.4	349.1
75°	53.1	79.5	79.5	106.1	132.6	150.3	176.8	198.8	212.1	225.4	225.4
77.5°	35.3	48.6	53.1	66.2	79.5	101.7	123.7	137.0	150.3	154.6	154.6
80°	30.9	35.3	35.3	48.6	57.5	75.1	88.4	92.8	101.7	106.1	115.0
82.5°	13.3	17.6	22.0	35.3	39.8	39.8	53.1	57.5	66.2	70.8	70.8
85°	4.4	8.9	8.9	13.3	22.0	26.6	30.9	35.3	39.8	39.8	44.2
87.5°	4.4	4.4	0.0	4.4	8.9	8.9	17.6	17.6	17.6	26.6	26.6
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: P248548

CATALOG NUMBER: LD8B150D010 ER8B150827 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7
2.5°	8972.2	8976.5	8958.9	8954.5	8945.6	8950.0	8958.9
5°	8808.6	8813.0	8795.3	8777.7	8777.7	8773.1	8777.7
7.5°	8653.8	8658.3	8631.8	8622.9	8605.2	8609.8	8609.8
10°	8499.2	8499.2	8459.5	8455.0	8441.7	8437.3	8437.3
12.5°	8348.9	8335.6	8304.7	8287.0	8296.0	8269.4	8269.4
15°	8216.3	8194.3	8154.4	8141.1	8119.1	8110.2	8110.2
17.5°	8079.3	8061.6	8026.4	7999.8	7973.2	7968.9	7973.2
20°	7946.7	7929.0	7884.8	7867.2	7845.2	7845.2	7836.2
22.5°	7814.1	7796.4	7756.7	7743.5	7712.5	7712.5	7716.9
25°	7677.1	7663.8	7619.6	7610.8	7606.5	7588.7	7597.6
27.5°	7491.5	7482.6	7447.3	7434.0	7416.4	7412.0	7420.7
30°	7151.1	7137.9	7111.5	7098.2	7067.3	7071.6	7080.4
32.5°	6726.9	6709.2	6673.8	6660.5	6634.1	6625.2	6629.6
35°	6196.6	6183.3	6152.4	6152.4	6125.8	6116.9	6125.8
37.5°	5657.4	5670.5	5657.4	5670.5	5657.4	5652.8	5657.4
40°	5149.1	5197.7	5206.4	5255.2	5237.5	5263.9	5259.5
42.5°	4662.8	4742.3	4773.4	4813.1	4804.4	4822.0	4835.3
45°	4172.2	4238.6	4269.5	4296.1	4300.4	4309.3	4313.7
47.5°	3708.1	3761.2	3765.6	3796.5	3792.1	3792.1	3805.4
50°	3275.1	3310.4	3319.1	3341.3	3323.7	3314.8	3319.1
52.5°	2872.9	2908.2	2899.3	2908.2	2886.2	2877.3	2881.6
55°	2461.8	2479.4	2479.4	2479.4	2453.0	2453.0	2453.0
57.5°	2041.9	2046.4	2037.5	2041.9	2037.5	2011.0	2006.6
60°	1657.5	1657.5	1652.9	1657.5	1644.2	1630.9	1630.9
62.5°	1294.9	1303.8	1321.5	1303.8	1294.9	1303.8	1290.5
65°	968.0	985.6	981.1	990.0	985.6	985.6	976.7
67.5°	729.3	733.7	738.1	742.6	742.6	742.6	742.6
70°	534.8	548.1	543.6	543.6	543.6	543.6	570.1
72.5°	358.0	375.7	371.3	380.0	380.0	388.9	380.0
75°	243.0	260.7	252.0	265.2	260.7	252.0	274.0
77.5°	163.5	172.5	176.8	181.2	176.8	172.5	176.8
80°	115.0	123.7	119.3	123.7	123.7	123.7	128.3
82.5°	70.8	84.0	79.5	84.0	79.5	84.0	84.0
85°	48.6	53.1	44.2	53.1	48.6	48.6	57.5
87.5°	30.9	26.6	26.6	30.9	26.6	30.9	26.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)