

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: P248989

Luminaire Tested: **LD8B150D010 ER8B150830 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248989
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 ER8B150830 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15464.0 lumens
Efficiency: N/A
Efficacy: 97.6 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

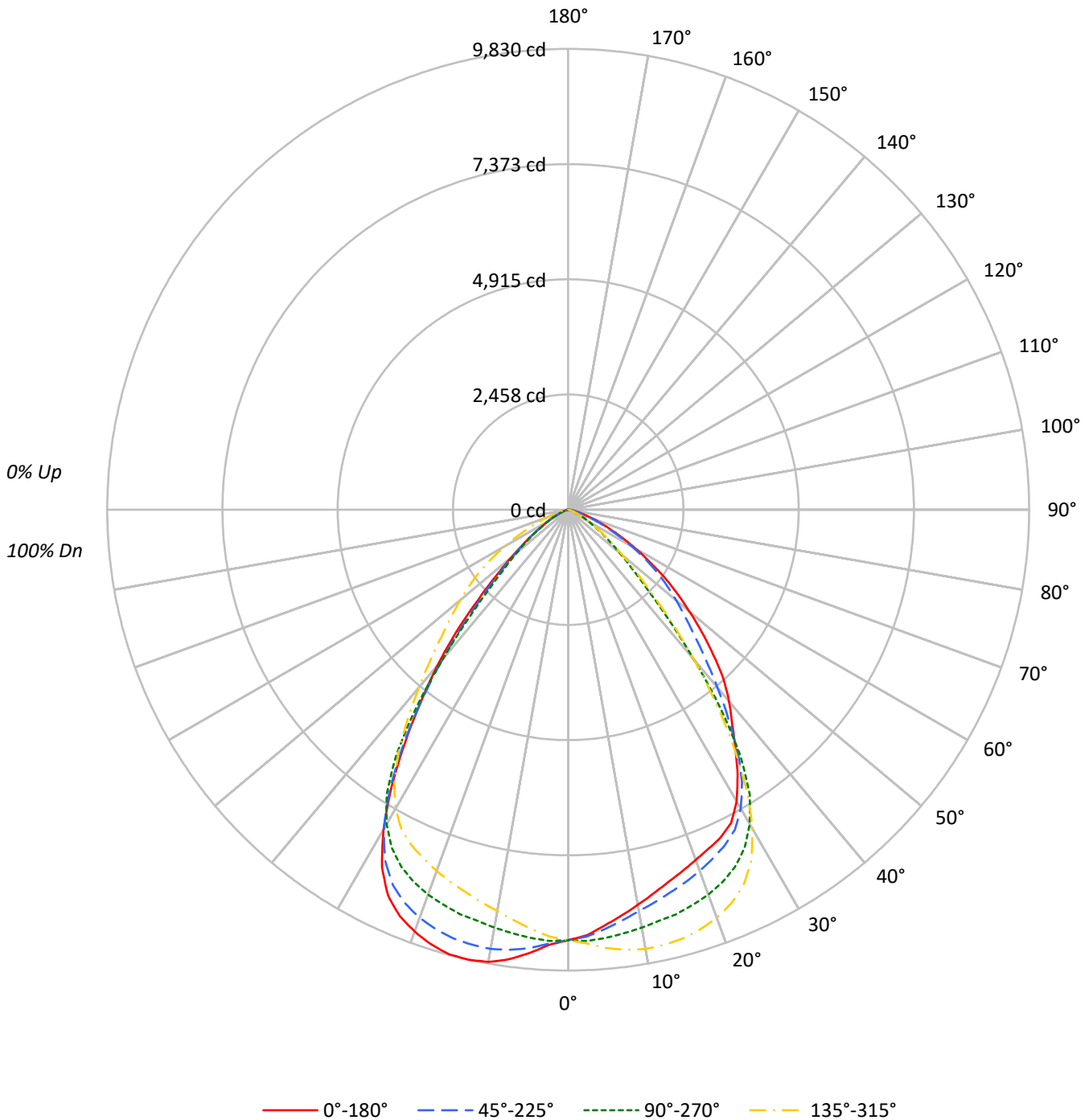
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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					100			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	283093	283093	283093	283093
5°	275572	283756	293888	283756
10°	267949	283386	306686	283386
15°	262595	285069	313399	285069
20°	260810	286698	314207	286698
25°	262180	286122	309157	286122
30°	255695	275649	280602	275649
35°	233883	240460	228146	240460
40°	214731	167271	174674	167271
45°	190794	102045	118072	102045
50°	161496	68165	75696	68165
55°	133753	46514	49159	46514
60°	102013	30966	31237	30966
65°	72279	19292	17665	19292
70°	52139	12929	11730	12929
75°	33110	6422	5338	6422
80°	23103	4777	3960	4777
85°	20627	0	1557	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	873.8	5.7
10°-20°	2530.4	16.4
20°-30°	3831.5	24.8
30°-40°	3840.1	24.8
40°-50°	2411.4	15.6
50°-60°	1285.0	8.3
60°-70°	528.4	3.4
70°-80°	139.6	0.9
80°-90°	23.6	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°	7235.7	46.8
0°-40°	11075.9	71.6
0°-60°	14772.4	95.5
0°-90°	15464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15464.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9180	9180	9180	9180	9180	
5°	8903	9167	9494	9167	8903	840
15°	8226	8930	9817	8930	8226	2326
25°	7706	8409	9086	8409	7706	3534
35°	6213	6388	6061	6388	6213	3892
45°	4375	2340	2708	2340	4375	3365
55°	2488	865	914	865	2488	2218
65°	991	264	242	264	991	1028
75°	278	54	45	54	278	315
85°	58	0	4	0	58	64
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°	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5
2.5°	9086.4	9077.3	9072.9	9082.0	9086.4	9104.3	9099.9	9108.7	9108.7	9113.3	9122.2
5°	8902.6	8898.0	8902.6	8902.6	8920.5	8938.4	8934.0	8947.5	8956.3	8978.8	8987.7
7.5°	8732.3	8732.3	8727.7	8745.6	8754.6	8781.6	8777.0	8799.5	8812.9	8835.3	8866.6
10°	8557.4	8557.4	8561.8	8575.3	8579.9	8620.1	8620.1	8651.5	8669.4	8691.9	8732.3
12.5°	8387.1	8387.1	8414.0	8405.0	8422.9	8454.3	8467.7	8499.1	8526.0	8570.9	8611.3
15°	8225.6	8225.6	8234.7	8257.0	8270.5	8310.9	8333.2	8369.2	8400.6	8445.4	8503.7
17.5°	8086.7	8082.3	8086.7	8113.6	8140.6	8176.4	8194.3	8239.1	8270.5	8328.8	8382.7
20°	7947.8	7956.8	7956.8	7979.1	7997.0	8041.9	8059.8	8109.2	8145.0	8198.7	8261.6
22.5°	7826.7	7822.3	7822.3	7853.7	7867.1	7907.4	7925.3	7970.1	8010.5	8055.3	8113.6
25°	7705.7	7696.7	7714.7	7719.2	7728.0	7772.9	7786.3	7817.7	7858.1	7898.5	7956.8
27.5°	7526.4	7517.5	7521.9	7539.8	7553.3	7589.1	7598.1	7629.5	7660.9	7696.7	7746.1
30°	7181.1	7172.3	7167.9	7199.2	7212.7	7239.4	7252.9	7306.8	7315.6	7356.1	7391.8
32.5°	6723.9	6719.5	6728.5	6755.3	6768.8	6804.7	6822.6	6854.0	6876.3	6898.8	6934.6
35°	6213.0	6204.0	6213.0	6239.9	6239.9	6271.3	6284.8	6298.1	6293.6	6298.1	6289.2
37.5°	5737.9	5733.3	5737.9	5751.2	5737.9	5751.2	5737.9	5711.0	5661.7	5607.8	5553.9
40°	5334.4	5338.8	5312.0	5329.9	5280.5	5271.6	5222.4	5155.0	5056.5	4948.9	4796.5
42.5°	4904.1	4890.6	4872.7	4881.6	4841.4	4809.8	4729.2	4644.1	4518.5	4339.3	4155.4
45°	4375.1	4370.7	4361.6	4357.2	4330.3	4298.9	4231.6	4133.0	3994.1	3810.3	3590.6
47.5°	3859.6	3846.1	3846.1	3850.5	3819.2	3814.7	3760.9	3675.8	3554.8	3375.4	3146.8
50°	3366.4	3362.0	3371.0	3388.9	3366.4	3357.5	3321.7	3263.4	3155.9	3003.5	2788.1
52.5°	2922.6	2918.2	2927.3	2949.6	2940.5	2949.6	2913.8	2868.9	2797.2	2649.2	2461.0
55°	2487.9	2487.9	2487.9	2514.7	2514.7	2514.7	2496.8	2470.0	2402.7	2295.1	2120.4
57.5°	2035.1	2039.6	2066.5	2070.9	2066.5	2075.6	2070.9	2044.0	1999.4	1923.1	1788.6
60°	1654.1	1654.1	1667.6	1681.1	1676.5	1681.1	1681.1	1667.6	1622.8	1560.0	1452.5
62.5°	1308.9	1322.4	1313.3	1322.4	1340.3	1322.4	1313.3	1304.5	1273.1	1232.7	1143.0
65°	990.6	999.7	999.7	1004.1	995.1	999.7	981.8	968.3	950.4	905.6	847.3
67.5°	753.2	753.2	753.2	753.2	748.6	744.1	739.7	726.2	694.9	677.0	614.0
70°	578.3	551.3	551.3	551.3	551.3	555.9	542.5	524.6	515.5	484.2	439.3
72.5°	385.4	394.5	385.4	385.4	376.6	381.0	363.1	354.1	345.2	327.3	300.4
75°	277.9	255.5	264.4	269.0	255.5	264.4	246.5	228.6	228.6	215.1	201.7
77.5°	179.3	174.9	179.3	183.8	179.3	174.9	165.9	156.8	156.8	152.4	138.9
80°	130.1	125.5	125.5	125.5	121.0	125.5	116.6	116.6	107.6	103.1	94.1
82.5°	85.2	85.2	80.6	85.2	80.6	85.2	71.8	71.8	71.8	67.2	58.3
85°	58.3	49.3	49.3	53.9	44.8	53.9	49.3	44.8	40.4	40.4	35.8
87.5°	26.9	31.4	26.9	31.4	26.9	26.9	31.4	26.9	26.9	17.9	17.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5
2.5°	9135.7	9140.1	9140.1	9158.2	9167.0	9171.4	9171.4	9207.4	9194.0	9203.0	9211.9
5°	9005.8	9032.5	9041.6	9041.6	9090.8	9108.7	9126.6	9167.0	9171.4	9198.4	9229.8
7.5°	8880.1	8911.5	8929.6	8969.8	9001.1	9032.5	9086.4	9113.3	9140.1	9176.1	9216.3
10°	8759.1	8795.0	8830.8	8862.2	8911.5	8951.9	8987.7	9050.4	9082.0	9131.2	9184.9
12.5°	8642.6	8691.9	8723.3	8777.0	8830.8	8866.6	8920.5	8978.8	9028.1	9077.3	9140.1
15°	8539.5	8597.8	8633.6	8691.9	8750.2	8799.5	8857.8	8929.6	8965.3	9023.7	9082.0
17.5°	8427.3	8490.2	8535.1	8588.8	8660.5	8714.2	8763.7	8835.3	8880.1	8942.8	9010.2
20°	8310.9	8373.6	8427.3	8481.2	8553.0	8606.7	8665.0	8736.7	8786.0	8848.7	8902.6
22.5°	8172.0	8230.3	8288.4	8351.1	8422.9	8467.7	8535.1	8597.8	8651.5	8709.8	8763.7
25°	7992.6	8064.4	8109.2	8167.3	8225.6	8274.9	8346.7	8409.4	8454.3	8508.1	8557.4
27.5°	7781.9	7835.8	7871.6	7920.8	7979.1	8024.0	8077.7	8140.6	8185.4	8234.7	8270.5
30°	7423.2	7472.7	7504.0	7539.8	7598.1	7638.5	7683.4	7741.5	7772.9	7808.8	7840.2
32.5°	6952.5	6992.9	7010.8	7037.8	7078.2	7118.4	7154.4	7203.6	7217.1	7239.4	7239.4
35°	6271.3	6280.2	6275.7	6284.8	6302.7	6325.0	6356.4	6387.7	6405.6	6405.6	6392.4
37.5°	5473.3	5419.6	5361.3	5316.5	5303.0	5294.0	5312.0	5325.3	5343.4	5352.3	5329.9
40°	4644.1	4523.1	4393.0	4276.4	4195.8	4160.0	4146.5	4155.4	4155.4	4186.7	4186.7
42.5°	3931.4	3743.0	3550.3	3375.4	3258.8	3169.3	3128.9	3128.9	3133.4	3155.9	3169.3
45°	3339.6	3102.0	2877.8	2685.2	2523.7	2407.1	2353.4	2340.0	2335.5	2344.4	2375.8
47.5°	2886.8	2640.3	2407.1	2169.7	1999.4	1882.7	1833.5	1815.4	1797.5	1815.4	1820.0
50°	2532.8	2277.2	2030.7	1793.1	1613.7	1510.6	1447.9	1420.9	1416.5	1416.5	1425.5
52.5°	2209.9	1972.4	1725.9	1483.8	1295.4	1196.9	1138.6	1125.1	1107.2	1125.1	1125.1
55°	1905.1	1667.6	1425.5	1196.9	1039.9	936.9	883.1	865.2	856.1	869.6	869.6
57.5°	1573.5	1371.6	1147.7	941.4	784.5	712.8	672.4	650.0	645.4	654.5	645.4
60°	1291.0	1120.7	927.9	739.7	618.7	542.5	511.1	502.1	493.0	502.1	502.1
62.5°	1022.0	878.6	721.6	578.3	475.1	421.4	385.4	385.4	381.0	381.0	385.4
65°	757.6	645.4	533.4	412.4	331.7	291.3	264.4	264.4	260.0	264.4	260.0
67.5°	551.3	475.1	385.4	300.4	237.6	215.1	197.2	183.8	192.8	183.8	179.3
70°	403.5	340.6	277.9	228.6	183.8	161.4	148.0	143.4	134.5	134.5	134.5
72.5°	269.0	228.6	188.2	148.0	121.0	98.5	94.1	85.2	76.2	80.6	89.7
75°	179.3	152.4	134.5	107.6	80.6	80.6	53.9	53.9	44.8	53.9	40.4
77.5°	125.5	103.1	80.6	67.2	53.9	49.3	35.8	35.8	31.4	31.4	31.4
80°	89.7	76.2	58.3	49.3	35.8	35.8	31.4	26.9	22.3	22.3	26.9
82.5°	53.9	40.4	40.4	35.8	22.3	17.9	13.5	17.9	9.0	9.0	9.0
85°	31.4	26.9	22.3	13.5	9.0	9.0	4.4	0.0	4.4	4.4	0.0
87.5°	17.9	9.0	9.0	4.4	0.0	4.4	4.4	0.0	0.0	0.0	9.0
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°	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5
2.5°	9234.4	9229.8	9238.8	9238.8	9265.7	9261.1	9274.6	9274.6	9265.7	9270.2	9288.1
5°	9265.7	9279.2	9306.0	9328.5	9368.7	9386.8	9409.1	9431.6	9436.0	9449.5	9463.0
7.5°	9265.7	9310.6	9341.9	9382.2	9436.0	9467.4	9516.7	9557.1	9575.0	9597.3	9624.2
10°	9247.6	9292.5	9350.8	9395.6	9463.0	9512.2	9561.5	9624.2	9651.2	9687.0	9722.9
12.5°	9211.9	9261.1	9323.9	9382.2	9458.4	9503.2	9565.9	9624.2	9664.6	9713.9	9754.3
15°	9158.2	9216.3	9274.6	9332.9	9413.5	9467.4	9525.7	9592.9	9633.3	9687.0	9722.9
17.5°	9072.9	9135.7	9189.5	9243.2	9319.4	9382.2	9436.0	9498.8	9539.2	9584.0	9633.3
20°	8969.8	9028.1	9086.4	9131.2	9207.4	9261.1	9319.4	9377.7	9409.1	9418.1	9494.3
22.5°	8839.9	8880.1	8924.9	8996.7	9041.6	9090.8	9144.7	9198.4	9229.8	9279.2	9306.0
25°	8624.6	8665.0	8714.2	8745.6	8799.5	8839.9	8893.6	8951.9	8969.8	9005.8	9032.5
27.5°	8324.4	8346.7	8369.2	8395.9	8427.3	8449.8	8481.2	8508.1	8526.0	8543.9	8561.8
30°	7849.1	7849.1	7849.1	7831.2	7844.6	7858.1	7862.5	7858.1	7858.1	7853.7	7853.7
32.5°	7221.5	7185.7	7145.3	7109.5	7096.1	7078.2	7069.1	7055.7	7033.3	7019.9	7024.3
35°	6374.3	6293.6	6244.4	6199.5	6163.7	6136.8	6123.3	6109.9	6105.4	6087.5	6069.5
37.5°	5316.5	5258.2	5222.4	5195.4	5164.1	5137.1	5141.6	5146.2	5159.5	5150.6	5155.0
40°	4195.8	4182.3	4195.8	4164.4	4155.4	4164.4	4186.7	4218.3	4236.2	4254.1	4285.4
42.5°	3191.7	3214.0	3245.5	3245.5	3258.8	3276.9	3303.7	3353.1	3379.9	3411.2	3447.2
45°	2402.7	2429.6	2470.0	2483.3	2492.4	2514.7	2546.2	2586.5	2604.4	2631.3	2662.7
47.5°	1851.4	1869.3	1891.6	1914.1	1936.4	1945.5	1976.8	1976.8	1999.4	2017.2	2026.1
50°	1443.4	1461.3	1479.2	1492.7	1501.7	1515.2	1524.1	1537.5	1542.0	1551.0	1555.4
52.5°	1129.6	1152.1	1152.1	1160.9	1174.4	1187.9	1183.4	1187.9	1192.3	1192.3	1205.8
55°	883.1	883.1	896.5	896.5	905.6	901.0	905.6	905.6	905.6	905.6	910.0
57.5°	658.9	663.5	677.0	667.9	663.5	672.4	663.5	672.4	667.9	677.0	663.5
60°	506.5	506.5	511.1	511.1	515.5	515.5	515.5	511.1	511.1	506.5	506.5
62.5°	381.0	385.4	390.1	385.4	385.4	385.4	381.0	381.0	376.6	372.0	372.0
65°	255.5	251.1	260.0	251.1	255.5	255.5	251.1	255.5	242.1	246.5	242.1
67.5°	183.8	179.3	174.9	179.3	174.9	170.3	170.3	174.9	179.3	165.9	165.9
70°	121.0	125.5	121.0	125.5	130.1	130.1	125.5	121.0	125.5	116.6	121.0
72.5°	76.2	76.2	76.2	76.2	76.2	80.6	80.6	80.6	71.8	71.8	67.2
75°	35.8	49.3	40.4	35.8	49.3	49.3	44.8	44.8	40.4	40.4	40.4
77.5°	35.8	26.9	26.9	26.9	26.9	26.9	26.9	26.9	22.3	26.9	22.3
80°	17.9	17.9	17.9	13.5	17.9	17.9	22.3	17.9	17.9	13.5	22.3
82.5°	9.0	9.0	9.0	0.0	4.4	9.0	9.0	4.4	9.0	9.0	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: P248989

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5
2.5°	9283.6	9279.2	9283.6	9288.1	9283.6	9279.2	9283.6	9288.1	9270.2	9265.7	9274.6
5°	9480.9	9480.9	9489.7	9494.3	9489.7	9480.9	9480.9	9463.0	9449.5	9436.0	9431.6
7.5°	9651.2	9660.2	9669.1	9673.5	9669.1	9660.2	9651.2	9624.2	9597.3	9575.0	9557.1
10°	9754.3	9767.8	9785.7	9794.5	9785.7	9767.8	9754.3	9722.9	9687.0	9651.2	9624.2
12.5°	9799.1	9812.6	9834.9	9830.5	9834.9	9812.6	9799.1	9754.3	9713.9	9664.6	9624.2
15°	9767.8	9785.7	9808.0	9817.0	9808.0	9785.7	9767.8	9722.9	9687.0	9633.3	9592.9
17.5°	9669.1	9696.0	9709.5	9722.9	9709.5	9696.0	9669.1	9633.3	9584.0	9539.2	9498.8
20°	9534.6	9552.6	9570.5	9575.0	9570.5	9552.6	9534.6	9494.3	9418.1	9409.1	9377.7
22.5°	9341.9	9355.4	9395.6	9382.2	9395.6	9355.4	9341.9	9306.0	9279.2	9229.8	9198.4
25°	9063.9	9077.3	9082.0	9086.4	9082.0	9077.3	9063.9	9032.5	9005.8	8969.8	8951.9
27.5°	8584.3	8584.3	8593.2	8597.8	8593.2	8584.3	8584.3	8561.8	8543.9	8526.0	8508.1
30°	7858.1	7858.1	7858.1	7880.6	7858.1	7858.1	7858.1	7853.7	7853.7	7858.1	7858.1
32.5°	7019.9	7010.8	7002.0	7010.8	7002.0	7010.8	7019.9	7024.3	7019.9	7033.3	7055.7
35°	6069.5	6065.0	6078.5	6060.6	6078.5	6065.0	6069.5	6069.5	6087.5	6105.4	6109.9
37.5°	5159.5	5150.6	5168.5	5150.6	5168.5	5150.6	5159.5	5155.0	5150.6	5159.5	5146.2
40°	4294.5	4303.3	4303.3	4339.3	4303.3	4303.3	4294.5	4285.4	4254.1	4236.2	4218.3
42.5°	3465.1	3492.0	3483.0	3509.9	3483.0	3492.0	3465.1	3447.2	3411.2	3379.9	3353.1
45°	2680.6	2698.6	2698.6	2707.5	2698.6	2698.6	2680.6	2662.7	2631.3	2604.4	2586.5
47.5°	2057.5	2057.5	2057.5	2062.1	2057.5	2057.5	2057.5	2026.1	2017.2	1999.4	1976.8
50°	1564.5	1568.9	1573.5	1577.9	1573.5	1568.9	1564.5	1555.4	1551.0	1542.0	1537.5
52.5°	1201.3	1205.8	1196.9	1205.8	1196.9	1205.8	1201.3	1205.8	1192.3	1192.3	1187.9
55°	910.0	905.6	910.0	914.4	910.0	905.6	910.0	910.0	905.6	905.6	905.6
57.5°	667.9	658.9	658.9	658.9	658.9	658.9	667.9	663.5	677.0	667.9	672.4
60°	497.6	502.1	502.1	506.5	502.1	502.1	497.6	506.5	506.5	511.1	511.1
62.5°	367.5	381.0	372.0	381.0	372.0	381.0	367.5	372.0	372.0	376.6	381.0
65°	237.6	237.6	237.6	242.1	237.6	237.6	237.6	242.1	246.5	242.1	255.5
67.5°	161.4	165.9	174.9	170.3	174.9	165.9	161.4	165.9	165.9	179.3	174.9
70°	130.1	116.6	116.6	130.1	116.6	116.6	130.1	121.0	116.6	125.5	121.0
72.5°	76.2	67.2	76.2	76.2	76.2	67.2	76.2	67.2	71.8	71.8	80.6
75°	40.4	35.8	31.4	44.8	31.4	35.8	40.4	40.4	40.4	40.4	44.8
77.5°	26.9	22.3	31.4	31.4	31.4	22.3	26.9	22.3	26.9	22.3	26.9
80°	13.5	17.9	13.5	22.3	13.5	17.9	13.5	22.3	13.5	17.9	17.9
82.5°	4.4	9.0	9.0	9.0	9.0	9.0	4.4	4.4	9.0	9.0	4.4
85°	0.0	9.0	4.4	4.4	4.4	9.0	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: P248989

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5
2.5°	9274.6	9261.1	9265.7	9238.8	9238.8	9229.8	9234.4	9211.9	9203.0	9194.0	9207.4
5°	9409.1	9386.8	9368.7	9328.5	9306.0	9279.2	9265.7	9229.8	9198.4	9171.4	9167.0
7.5°	9516.7	9467.4	9436.0	9382.2	9341.9	9310.6	9265.7	9216.3	9176.1	9140.1	9113.3
10°	9561.5	9512.2	9463.0	9395.6	9350.8	9292.5	9247.6	9184.9	9131.2	9082.0	9050.4
12.5°	9565.9	9503.2	9458.4	9382.2	9323.9	9261.1	9211.9	9140.1	9077.3	9028.1	8978.8
15°	9525.7	9467.4	9413.5	9332.9	9274.6	9216.3	9158.2	9082.0	9023.7	8965.3	8929.6
17.5°	9436.0	9382.2	9319.4	9243.2	9189.5	9135.7	9072.9	9010.2	8942.8	8880.1	8835.3
20°	9319.4	9261.1	9207.4	9131.2	9086.4	9028.1	8969.8	8902.6	8848.7	8786.0	8736.7
22.5°	9144.7	9090.8	9041.6	8996.7	8924.9	8880.1	8839.9	8763.7	8709.8	8651.5	8597.8
25°	8893.6	8839.9	8799.5	8745.6	8714.2	8665.0	8624.6	8557.4	8508.1	8454.3	8409.4
27.5°	8481.2	8449.8	8427.3	8395.9	8369.2	8346.7	8324.4	8270.5	8234.7	8185.4	8140.6
30°	7862.5	7858.1	7844.6	7831.2	7849.1	7849.1	7849.1	7840.2	7808.8	7772.9	7741.5
32.5°	7069.1	7078.2	7096.1	7109.5	7145.3	7185.7	7221.5	7239.4	7239.4	7217.1	7203.6
35°	6123.3	6136.8	6163.7	6199.5	6244.4	6293.6	6374.3	6392.4	6405.6	6405.6	6387.7
37.5°	5141.6	5137.1	5164.1	5195.4	5222.4	5258.2	5316.5	5329.9	5352.3	5343.4	5325.3
40°	4186.7	4164.4	4155.4	4164.4	4195.8	4182.3	4195.8	4186.7	4186.7	4155.4	4155.4
42.5°	3303.7	3276.9	3258.8	3245.5	3245.5	3214.0	3191.7	3169.3	3155.9	3133.4	3128.9
45°	2546.2	2514.7	2492.4	2483.3	2470.0	2429.6	2402.7	2375.8	2344.4	2335.5	2340.0
47.5°	1976.8	1945.5	1936.4	1914.1	1891.6	1869.3	1851.4	1820.0	1815.4	1797.5	1815.4
50°	1524.1	1515.2	1501.7	1492.7	1479.2	1461.3	1443.4	1425.5	1416.5	1416.5	1420.9
52.5°	1183.4	1187.9	1174.4	1160.9	1152.1	1152.1	1129.6	1125.1	1125.1	1107.2	1125.1
55°	905.6	901.0	905.6	896.5	896.5	883.1	883.1	869.6	869.6	856.1	865.2
57.5°	663.5	672.4	663.5	667.9	677.0	663.5	658.9	645.4	654.5	645.4	650.0
60°	515.5	515.5	515.5	511.1	511.1	506.5	506.5	502.1	502.1	493.0	502.1
62.5°	381.0	385.4	385.4	385.4	390.1	385.4	381.0	385.4	381.0	381.0	385.4
65°	251.1	255.5	255.5	251.1	260.0	251.1	255.5	260.0	264.4	260.0	264.4
67.5°	170.3	170.3	174.9	179.3	174.9	179.3	183.8	179.3	183.8	192.8	183.8
70°	125.5	130.1	130.1	125.5	121.0	125.5	121.0	134.5	134.5	134.5	143.4
72.5°	80.6	80.6	76.2	76.2	76.2	76.2	76.2	89.7	80.6	76.2	85.2
75°	44.8	49.3	49.3	35.8	40.4	49.3	35.8	40.4	53.9	44.8	53.9
77.5°	26.9	26.9	26.9	26.9	26.9	26.9	35.8	31.4	31.4	31.4	35.8
80°	22.3	17.9	17.9	13.5	17.9	17.9	17.9	26.9	22.3	22.3	26.9
82.5°	9.0	9.0	4.4	0.0	9.0	9.0	9.0	9.0	9.0	9.0	17.9
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	9.0	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: P248989

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5
2.5°	9171.4	9171.4	9167.0	9158.2	9140.1	9140.1	9135.7	9122.2	9113.3	9108.7	9108.7
5°	9126.6	9108.7	9090.8	9041.6	9041.6	9032.5	9005.8	8987.7	8978.8	8956.3	8947.5
7.5°	9086.4	9032.5	9001.1	8969.8	8929.6	8911.5	8880.1	8866.6	8835.3	8812.9	8799.5
10°	8987.7	8951.9	8911.5	8862.2	8830.8	8795.0	8759.1	8732.3	8691.9	8669.4	8651.5
12.5°	8920.5	8866.6	8830.8	8777.0	8723.3	8691.9	8642.6	8611.3	8570.9	8526.0	8499.1
15°	8857.8	8799.5	8750.2	8691.9	8633.6	8597.8	8539.5	8503.7	8445.4	8400.6	8369.2
17.5°	8763.7	8714.2	8660.5	8588.8	8535.1	8490.2	8427.3	8382.7	8328.8	8270.5	8239.1
20°	8665.0	8606.7	8553.0	8481.2	8427.3	8373.6	8310.9	8261.6	8198.7	8145.0	8109.2
22.5°	8535.1	8467.7	8422.9	8351.1	8288.4	8230.3	8172.0	8113.6	8055.3	8010.5	7970.1
25°	8346.7	8274.9	8225.6	8167.3	8109.2	8064.4	7992.6	7956.8	7898.5	7858.1	7817.7
27.5°	8077.7	8024.0	7979.1	7920.8	7871.6	7835.8	7781.9	7746.1	7696.7	7660.9	7629.5
30°	7683.4	7638.5	7598.1	7539.8	7504.0	7472.7	7423.2	7391.8	7356.1	7315.6	7306.8
32.5°	7154.4	7118.4	7078.2	7037.8	7010.8	6992.9	6952.5	6934.6	6898.8	6876.3	6854.0
35°	6356.4	6325.0	6302.7	6284.8	6275.7	6280.2	6271.3	6289.2	6298.1	6293.6	6298.1
37.5°	5312.0	5294.0	5303.0	5316.5	5361.3	5419.6	5473.3	5553.9	5607.8	5661.7	5711.0
40°	4146.5	4160.0	4195.8	4276.4	4393.0	4523.1	4644.1	4796.5	4948.9	5056.5	5155.0
42.5°	3128.9	3169.3	3258.8	3375.4	3550.3	3743.0	3931.4	4155.4	4339.3	4518.5	4644.1
45°	2353.4	2407.1	2523.7	2685.2	2877.8	3102.0	3339.6	3590.6	3810.3	3994.1	4133.0
47.5°	1833.5	1882.7	1999.4	2169.7	2407.1	2640.3	2886.8	3146.8	3375.4	3554.8	3675.8
50°	1447.9	1510.6	1613.7	1793.1	2030.7	2277.2	2532.8	2788.1	3003.5	3155.9	3263.4
52.5°	1138.6	1196.9	1295.4	1483.8	1725.9	1972.4	2209.9	2461.0	2649.2	2797.2	2868.9
55°	883.1	936.9	1039.9	1196.9	1425.5	1667.6	1905.1	2120.4	2295.1	2402.7	2470.0
57.5°	672.4	712.8	784.5	941.4	1147.7	1371.6	1573.5	1788.6	1923.1	1999.4	2044.0
60°	511.1	542.5	618.7	739.7	927.9	1120.7	1291.0	1452.5	1560.0	1622.8	1667.6
62.5°	385.4	421.4	475.1	578.3	721.6	878.6	1022.0	1143.0	1232.7	1273.1	1304.5
65°	264.4	291.3	331.7	412.4	533.4	645.4	757.6	847.3	905.6	950.4	968.3
67.5°	197.2	215.1	237.6	300.4	385.4	475.1	551.3	614.0	677.0	694.9	726.2
70°	148.0	161.4	183.8	228.6	277.9	340.6	403.5	439.3	484.2	515.5	524.6
72.5°	94.1	98.5	121.0	148.0	188.2	228.6	269.0	300.4	327.3	345.2	354.1
75°	53.9	80.6	80.6	107.6	134.5	152.4	179.3	201.7	215.1	228.6	228.6
77.5°	35.8	49.3	53.9	67.2	80.6	103.1	125.5	138.9	152.4	156.8	156.8
80°	31.4	35.8	35.8	49.3	58.3	76.2	89.7	94.1	103.1	107.6	116.6
82.5°	13.5	17.9	22.3	35.8	40.4	40.4	53.9	58.3	67.2	71.8	71.8
85°	4.4	9.0	9.0	13.5	22.3	26.9	31.4	35.8	40.4	40.4	44.8
87.5°	4.4	4.4	0.0	4.4	9.0	9.0	17.9	17.9	17.9	26.9	26.9
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: P248989

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5	9180.5
2.5°	9099.9	9104.3	9086.4	9082.0	9072.9	9077.3	9086.4
5°	8934.0	8938.4	8920.5	8902.6	8902.6	8898.0	8902.6
7.5°	8777.0	8781.6	8754.6	8745.6	8727.7	8732.3	8732.3
10°	8620.1	8620.1	8579.9	8575.3	8561.8	8557.4	8557.4
12.5°	8467.7	8454.3	8422.9	8405.0	8414.0	8387.1	8387.1
15°	8333.2	8310.9	8270.5	8257.0	8234.7	8225.6	8225.6
17.5°	8194.3	8176.4	8140.6	8113.6	8086.7	8082.3	8086.7
20°	8059.8	8041.9	7997.0	7979.1	7956.8	7956.8	7947.8
22.5°	7925.3	7907.4	7867.1	7853.7	7822.3	7822.3	7826.7
25°	7786.3	7772.9	7728.0	7719.2	7714.7	7696.7	7705.7
27.5°	7598.1	7589.1	7553.3	7539.8	7521.9	7517.5	7526.4
30°	7252.9	7239.4	7212.7	7199.2	7167.9	7172.3	7181.1
32.5°	6822.6	6804.7	6768.8	6755.3	6728.5	6719.5	6723.9
35°	6284.8	6271.3	6239.9	6239.9	6213.0	6204.0	6213.0
37.5°	5737.9	5751.2	5737.9	5751.2	5737.9	5733.3	5737.9
40°	5222.4	5271.6	5280.5	5329.9	5312.0	5338.8	5334.4
42.5°	4729.2	4809.8	4841.4	4881.6	4872.7	4890.6	4904.1
45°	4231.6	4298.9	4330.3	4357.2	4361.6	4370.7	4375.1
47.5°	3760.9	3814.7	3819.2	3850.5	3846.1	3846.1	3859.6
50°	3321.7	3357.5	3366.4	3388.9	3371.0	3362.0	3366.4
52.5°	2913.8	2949.6	2940.5	2949.6	2927.3	2918.2	2922.6
55°	2496.8	2514.7	2514.7	2514.7	2487.9	2487.9	2487.9
57.5°	2070.9	2075.6	2066.5	2070.9	2066.5	2039.6	2035.1
60°	1681.1	1681.1	1676.5	1681.1	1667.6	1654.1	1654.1
62.5°	1313.3	1322.4	1340.3	1322.4	1313.3	1322.4	1308.9
65°	981.8	999.7	995.1	1004.1	999.7	999.7	990.6
67.5°	739.7	744.1	748.6	753.2	753.2	753.2	753.2
70°	542.5	555.9	551.3	551.3	551.3	551.3	578.3
72.5°	363.1	381.0	376.6	385.4	385.4	394.5	385.4
75°	246.5	264.4	255.5	269.0	264.4	255.5	277.9
77.5°	165.9	174.9	179.3	183.8	179.3	174.9	179.3
80°	116.6	125.5	121.0	125.5	125.5	125.5	130.1
82.5°	71.8	85.2	80.6	85.2	80.6	85.2	85.2
85°	49.3	53.9	44.8	53.9	49.3	49.3	58.3
87.5°	31.4	26.9	26.9	31.4	26.9	31.4	26.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)