

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: P248647

Luminaire Tested: **LD8B150D010 ER8B150930 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248647
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 ER8B150930 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13420.6 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

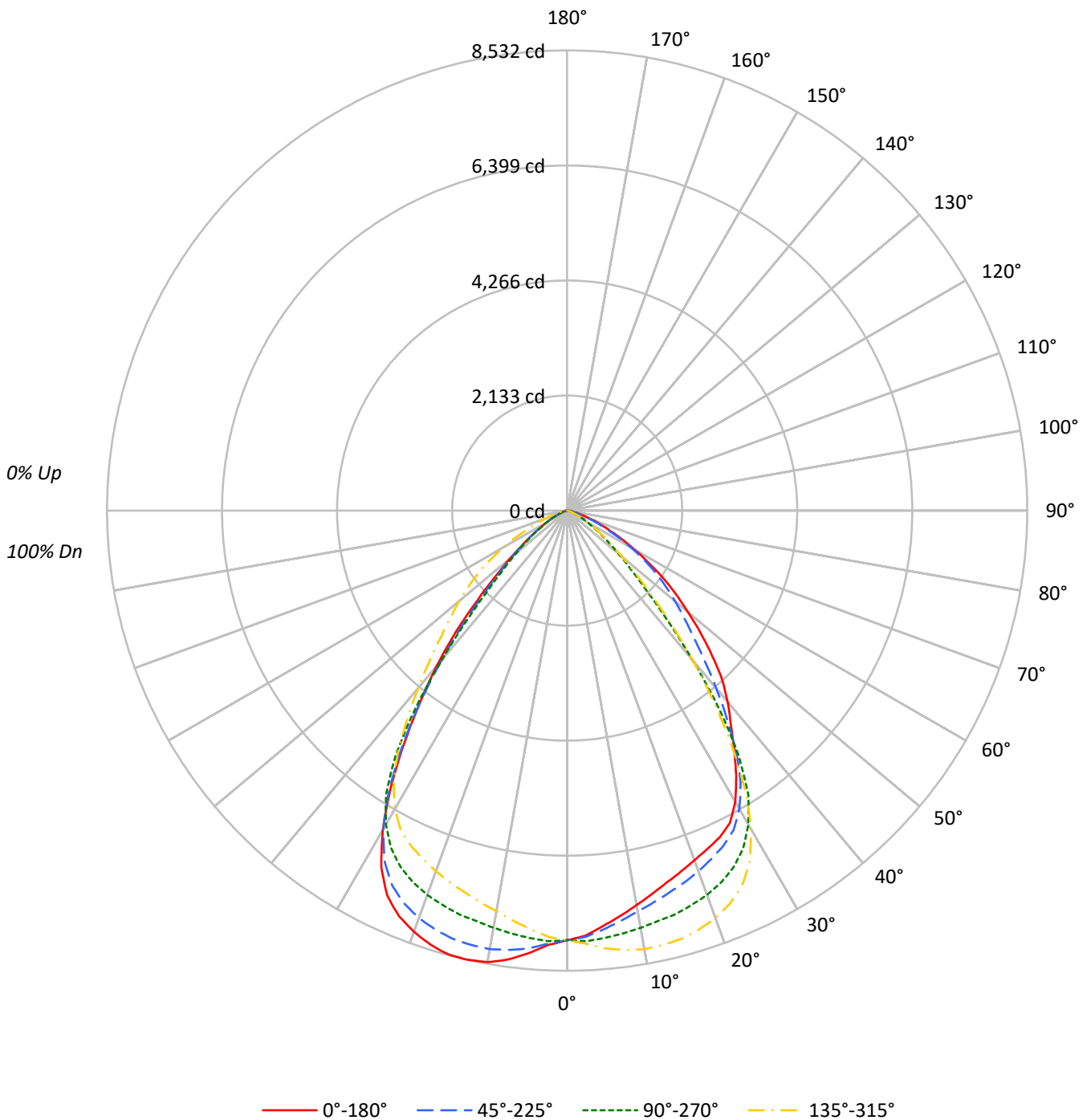
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	758.3	5.7
10°-20°	2196.0	16.4
20°-30°	3325.3	24.8
30°-40°	3332.7	24.8
40°-50°	2092.8	15.6
50°-60°	1115.2	8.3
60°-70°	458.6	3.4
70°-80°	121.2	0.9
80°-90°	20.5	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°	6279.6	46.8
0°-40°	9612.3	71.6
0°-60°	12820.4	95.5
0°-90°	13420.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13420.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7967	7967	7967	7967	7967	
5°	7726	7956	8240	7956	7726	729
15°	7139	7750	8520	7750	7139	2019
25°	6687	7298	7886	7298	6687	3067
35°	5392	5544	5260	5544	5392	3378
45°	3797	2031	2350	2031	3797	2920
55°	2159	751	794	751	2159	1925
65°	860	230	210	230	860	892
75°	241	47	39	47	241	273
85°	51	0	4	0	51	56
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°	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4
2.5°	7885.7	7877.8	7874.0	7881.9	7885.7	7901.3	7897.4	7905.1	7905.1	7909.1	7916.8
5°	7726.3	7722.2	7726.3	7726.3	7741.7	7757.3	7753.5	7765.2	7772.8	7792.4	7800.0
7.5°	7578.4	7578.4	7574.5	7590.0	7597.8	7621.2	7617.2	7636.7	7648.4	7667.8	7695.0
10°	7426.6	7426.6	7430.4	7442.2	7446.1	7481.1	7481.1	7508.3	7523.8	7543.3	7578.4
12.5°	7278.9	7278.9	7302.2	7294.3	7309.9	7337.2	7348.8	7376.1	7399.4	7438.3	7473.4
15°	7138.8	7138.8	7146.6	7166.0	7177.7	7212.7	7232.1	7263.3	7290.5	7329.4	7380.0
17.5°	7018.1	7014.3	7018.1	7041.6	7064.9	7095.9	7111.5	7150.4	7177.7	7228.2	7275.0
20°	6897.5	6905.4	6905.4	6924.8	6940.3	6979.2	6994.8	7037.6	7068.8	7115.3	7169.9
22.5°	6792.5	6788.7	6788.7	6815.9	6827.6	6862.5	6878.0	6916.9	6952.0	6990.9	7041.6
25°	6687.4	6679.6	6695.3	6699.2	6706.8	6745.7	6757.5	6784.6	6819.7	6854.8	6905.4
27.5°	6531.8	6524.1	6528.0	6543.5	6555.2	6586.3	6594.2	6621.3	6648.5	6679.6	6722.5
30°	6232.2	6224.6	6220.7	6247.9	6259.7	6282.9	6294.5	6341.3	6349.0	6384.0	6415.1
32.5°	5835.5	5831.6	5839.4	5862.6	5874.4	5905.5	5921.1	5948.4	5967.6	5987.3	6018.3
35°	5392.0	5384.2	5392.0	5415.4	5415.4	5442.7	5454.3	5465.9	5462.0	5465.9	5458.1
37.5°	4979.7	4975.7	4979.7	4991.3	4979.7	4991.3	4979.7	4956.3	4913.6	4866.8	4820.1
40°	4629.5	4633.3	4610.1	4625.7	4582.8	4575.0	4532.3	4473.8	4388.4	4295.0	4162.7
42.5°	4256.1	4244.4	4228.9	4236.6	4201.6	4174.3	4104.3	4030.4	3921.4	3765.9	3606.3
45°	3796.9	3793.1	3785.3	3781.5	3758.0	3730.8	3672.4	3586.9	3466.4	3306.8	3116.2
47.5°	3349.5	3337.9	3337.9	3341.7	3314.5	3310.6	3263.9	3190.1	3085.1	2929.4	2731.0
50°	2921.6	2917.7	2925.6	2941.1	2921.6	2913.9	2882.8	2832.2	2738.8	2606.5	2419.7
52.5°	2536.5	2532.6	2540.4	2559.8	2552.0	2559.8	2528.8	2489.9	2427.5	2299.2	2135.8
55°	2159.2	2159.2	2159.2	2182.4	2182.4	2182.4	2166.9	2143.7	2085.2	1991.8	1840.2
57.5°	1766.2	1770.1	1793.5	1797.3	1793.5	1801.3	1797.3	1773.9	1735.2	1669.1	1552.2
60°	1435.6	1435.6	1447.2	1459.0	1454.9	1459.0	1459.0	1447.2	1408.3	1353.9	1260.6
62.5°	1135.9	1147.7	1139.8	1147.7	1163.1	1147.7	1139.8	1132.1	1104.9	1069.8	992.0
65°	859.7	867.5	867.5	871.5	863.6	867.5	852.1	840.4	824.8	785.9	735.3
67.5°	653.7	653.7	653.7	653.7	649.6	645.8	642.0	630.2	603.1	587.5	532.9
70°	501.9	478.4	478.4	478.4	478.4	482.5	470.8	455.2	447.4	420.2	381.3
72.5°	334.5	342.4	334.5	334.5	326.8	330.7	315.1	307.3	299.6	284.1	260.7
75°	241.1	221.7	229.5	233.5	221.7	229.5	213.9	198.4	198.4	186.8	175.0
77.5°	155.6	151.8	155.6	159.5	155.6	151.8	143.9	136.1	136.1	132.3	120.6
80°	112.9	108.8	108.8	108.8	105.0	108.8	101.2	101.2	93.4	89.6	81.7
82.5°	74.0	74.0	70.0	74.0	70.0	74.0	62.3	62.3	62.3	58.3	50.6
85°	50.6	42.7	42.7	46.7	38.9	46.7	42.7	38.9	35.1	35.1	31.1
87.5°	23.4	27.2	23.4	27.2	23.4	23.4	27.2	23.4	23.4	15.6	15.6
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°	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4
2.5°	7928.5	7932.3	7932.3	7948.0	7955.7	7959.5	7959.5	7990.8	7979.1	7986.9	7994.6
5°	7815.7	7838.9	7846.8	7846.8	7889.6	7905.1	7920.6	7955.7	7959.5	7983.0	8010.1
7.5°	7706.7	7733.9	7749.6	7784.6	7811.8	7838.9	7885.7	7909.1	7932.3	7963.6	7998.4
10°	7601.6	7632.9	7663.9	7691.2	7733.9	7769.0	7800.0	7854.5	7881.9	7924.7	7971.2
12.5°	7500.6	7543.3	7570.6	7617.2	7663.9	7695.0	7741.7	7792.4	7835.1	7877.8	7932.3
15°	7411.2	7461.7	7492.8	7543.3	7594.0	7636.7	7687.4	7749.6	7780.6	7831.3	7881.9
17.5°	7313.7	7368.3	7407.2	7453.9	7516.2	7562.7	7605.6	7667.8	7706.7	7761.1	7819.6
20°	7212.7	7267.1	7313.7	7360.5	7422.8	7469.3	7520.0	7582.3	7625.0	7679.5	7726.3
22.5°	7092.1	7142.7	7193.1	7247.6	7309.9	7348.8	7407.2	7461.7	7508.3	7558.9	7605.6
25°	6936.5	6998.7	7037.6	7088.1	7138.8	7181.5	7243.8	7298.2	7337.2	7383.9	7426.6
27.5°	6753.6	6800.3	6831.5	6874.2	6924.8	6963.7	7010.3	7064.9	7103.8	7146.6	7177.7
30°	6442.3	6485.2	6512.4	6543.5	6594.2	6629.1	6668.2	6718.5	6745.7	6777.0	6804.2
32.5°	6033.8	6068.9	6084.5	6107.8	6142.9	6177.8	6209.0	6251.8	6263.5	6282.9	6282.9
35°	5442.7	5450.3	5446.5	5454.3	5469.8	5489.2	5516.4	5543.7	5559.3	5559.3	5547.7
37.5°	4750.1	4703.5	4652.8	4613.9	4602.3	4594.4	4610.1	4621.7	4637.4	4645.0	4625.7
40°	4030.4	3925.4	3812.5	3711.3	3641.3	3610.3	3598.6	3606.3	3606.3	3633.5	3633.5
42.5°	3411.9	3248.4	3081.2	2929.4	2828.2	2750.5	2715.5	2715.5	2719.3	2738.8	2750.5
45°	2898.3	2692.1	2497.6	2330.3	2190.2	2089.1	2042.5	2030.8	2026.9	2034.6	2061.9
47.5°	2505.4	2291.4	2089.1	1882.9	1735.2	1634.0	1591.3	1575.6	1560.0	1575.6	1579.5
50°	2198.1	1976.3	1762.4	1556.2	1400.5	1311.0	1256.5	1233.1	1229.3	1229.3	1237.1
52.5°	1917.9	1711.8	1497.9	1287.8	1124.3	1038.7	988.2	976.5	960.9	976.5	976.5
55°	1653.4	1447.2	1237.1	1038.7	902.5	813.2	766.4	750.8	743.0	754.7	754.7
57.5°	1365.6	1190.4	996.0	817.0	680.9	618.6	583.5	564.1	560.2	568.0	560.2
60°	1120.4	972.6	805.3	642.0	537.0	470.8	443.6	435.7	427.9	435.7	435.7
62.5°	886.9	762.5	626.3	501.9	412.3	365.8	334.5	334.5	330.7	330.7	334.5
65°	657.5	560.2	463.0	357.9	287.9	252.9	229.5	229.5	225.7	229.5	225.7
67.5°	478.4	412.3	334.5	260.7	206.3	186.8	171.2	159.5	167.4	159.5	155.6
70°	350.2	295.6	241.1	198.4	159.5	140.1	128.5	124.4	116.7	116.7	116.7
72.5°	233.5	198.4	163.3	128.5	105.0	85.5	81.7	74.0	66.1	70.0	77.8
75°	155.6	132.3	116.7	93.4	70.0	70.0	46.7	46.7	38.9	46.7	35.1
77.5°	108.8	89.6	70.0	58.3	46.7	42.7	31.1	31.1	27.2	27.2	27.2
80°	77.8	66.1	50.6	42.7	31.1	31.1	27.2	23.4	19.4	19.4	23.4
82.5°	46.7	35.1	35.1	31.1	19.4	15.6	11.7	15.6	7.8	7.8	7.8
85°	27.2	23.4	19.4	11.7	7.8	7.8	3.8	0.0	3.8	3.8	0.0
87.5°	15.6	7.8	7.8	3.8	0.0	3.8	3.8	0.0	0.0	0.0	7.8
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°	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4
2.5°	8014.1	8010.1	8018.0	8018.0	8041.4	8037.3	8049.0	8049.0	8041.4	8045.2	8060.8
5°	8041.4	8053.0	8076.2	8095.9	8130.7	8146.4	8165.8	8185.3	8189.1	8200.9	8212.6
7.5°	8041.4	8080.3	8107.5	8142.4	8189.1	8216.4	8259.2	8294.2	8309.7	8329.1	8352.5
10°	8025.7	8064.6	8115.1	8154.2	8212.6	8255.3	8298.1	8352.5	8375.9	8406.9	8438.2
12.5°	7994.6	8037.3	8091.8	8142.4	8208.5	8247.4	8301.9	8352.5	8387.5	8430.4	8465.3
15°	7948.0	7998.4	8049.0	8099.7	8169.6	8216.4	8267.0	8325.3	8360.3	8406.9	8438.2
17.5°	7874.0	7928.5	7975.2	8021.9	8088.0	8142.4	8189.1	8243.6	8278.7	8317.6	8360.3
20°	7784.6	7835.1	7885.7	7924.7	7990.8	8037.3	8088.0	8138.6	8165.8	8173.7	8239.8
22.5°	7671.8	7706.7	7745.7	7807.9	7846.8	7889.6	7936.3	7983.0	8010.1	8053.0	8076.2
25°	7484.9	7520.0	7562.7	7590.0	7636.7	7671.8	7718.4	7769.0	7784.6	7815.7	7838.9
27.5°	7224.4	7243.8	7263.3	7286.5	7313.7	7333.2	7360.5	7383.9	7399.4	7415.0	7430.4
30°	6811.9	6811.9	6811.9	6796.4	6808.1	6819.7	6823.6	6819.7	6819.7	6815.9	6815.9
32.5°	6267.3	6236.2	6201.1	6170.1	6158.4	6142.9	6135.0	6123.4	6104.0	6092.3	6096.1
35°	5532.0	5462.0	5419.3	5380.4	5349.3	5325.9	5314.2	5302.6	5298.6	5283.2	5267.5
37.5°	4613.9	4563.4	4532.3	4508.9	4481.6	4458.3	4462.1	4466.2	4477.7	4470.0	4473.8
40°	3641.3	3629.7	3641.3	3614.1	3606.3	3614.1	3633.5	3660.8	3676.4	3691.9	3719.1
42.5°	2769.9	2789.3	2816.6	2816.6	2828.2	2843.9	2867.1	2910.0	2933.2	2960.4	2991.7
45°	2085.2	2108.6	2143.7	2155.2	2163.1	2182.4	2209.8	2244.7	2260.3	2283.6	2310.8
47.5°	1606.7	1622.3	1641.6	1661.2	1680.6	1688.5	1715.6	1715.6	1735.2	1750.7	1758.4
50°	1252.7	1268.2	1283.8	1295.4	1303.3	1314.9	1322.7	1334.3	1338.2	1346.1	1349.9
52.5°	980.3	999.8	999.8	1007.6	1019.2	1030.9	1027.1	1030.9	1034.8	1034.8	1046.5
55°	766.4	766.4	778.1	778.1	785.9	781.9	785.9	785.9	785.9	785.9	789.7
57.5°	571.8	575.9	587.5	579.7	575.9	583.5	575.9	583.5	579.7	587.5	575.9
60°	439.5	439.5	443.6	443.6	447.4	447.4	447.4	443.6	443.6	439.5	439.5
62.5°	330.7	334.5	338.5	334.5	334.5	334.5	330.7	330.7	326.8	322.8	322.8
65°	221.7	217.9	225.7	217.9	221.7	221.7	217.9	221.7	210.1	213.9	210.1
67.5°	159.5	155.6	151.8	155.6	151.8	147.7	147.7	151.8	155.6	143.9	143.9
70°	105.0	108.8	105.0	108.8	112.9	112.9	108.8	105.0	108.8	101.2	105.0
72.5°	66.1	66.1	66.1	66.1	66.1	70.0	70.0	70.0	62.3	62.3	58.3
75°	31.1	42.7	35.1	31.1	42.7	42.7	38.9	38.9	35.1	35.1	35.1
77.5°	31.1	23.4	23.4	23.4	23.4	23.4	23.4	23.4	19.4	23.4	19.4
80°	15.6	15.6	15.6	11.7	15.6	15.6	19.4	15.6	15.6	11.7	19.4
82.5°	7.8	7.8	7.8	0.0	3.8	7.8	7.8	3.8	7.8	7.8	3.8
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: P248647

CATALOG NUMBER: LD8B150D010 ER8B150930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4
2.5°	8056.9	8053.0	8056.9	8060.8	8056.9	8053.0	8056.9	8060.8	8045.2	8041.4	8049.0
5°	8228.0	8228.0	8235.8	8239.8	8235.8	8228.0	8228.0	8212.6	8200.9	8189.1	8185.3
7.5°	8375.9	8383.7	8391.5	8395.3	8391.5	8383.7	8375.9	8352.5	8329.1	8309.7	8294.2
10°	8465.3	8477.1	8492.6	8500.3	8492.6	8477.1	8465.3	8438.2	8406.9	8375.9	8352.5
12.5°	8504.4	8516.0	8535.4	8531.5	8535.4	8516.0	8504.4	8465.3	8430.4	8387.5	8352.5
15°	8477.1	8492.6	8512.0	8519.8	8512.0	8492.6	8477.1	8438.2	8406.9	8360.3	8325.3
17.5°	8391.5	8414.8	8426.4	8438.2	8426.4	8414.8	8391.5	8360.3	8317.6	8278.7	8243.6
20°	8274.7	8290.4	8305.9	8309.7	8305.9	8290.4	8274.7	8239.8	8173.7	8165.8	8138.6
22.5°	8107.5	8119.2	8154.2	8142.4	8154.2	8119.2	8107.5	8076.2	8053.0	8010.1	7983.0
25°	7866.2	7877.8	7881.9	7885.7	7881.9	7877.8	7866.2	7838.9	7815.7	7784.6	7769.0
27.5°	7450.1	7450.1	7457.7	7461.7	7457.7	7450.1	7450.1	7430.4	7415.0	7399.4	7383.9
30°	6819.7	6819.7	6819.7	6839.3	6819.7	6819.7	6819.7	6815.9	6815.9	6819.7	6819.7
32.5°	6092.3	6084.5	6076.7	6084.5	6076.7	6084.5	6092.3	6096.1	6092.3	6104.0	6123.4
35°	5267.5	5263.7	5275.3	5259.7	5275.3	5263.7	5267.5	5267.5	5283.2	5298.6	5302.6
37.5°	4477.7	4470.0	4485.6	4470.0	4485.6	4470.0	4477.7	4473.8	4470.0	4477.7	4466.2
40°	3727.0	3734.7	3734.7	3765.9	3734.7	3734.7	3727.0	3719.1	3691.9	3676.4	3660.8
42.5°	3007.2	3030.6	3022.8	3046.1	3022.8	3030.6	3007.2	2991.7	2960.4	2933.2	2910.0
45°	2326.4	2342.1	2342.1	2349.7	2342.1	2342.1	2326.4	2310.8	2283.6	2260.3	2244.7
47.5°	1785.6	1785.6	1785.6	1789.6	1785.6	1785.6	1785.6	1758.4	1750.7	1735.2	1715.6
50°	1357.8	1361.6	1365.6	1369.4	1365.6	1361.6	1357.8	1349.9	1346.1	1338.2	1334.3
52.5°	1042.6	1046.5	1038.7	1046.5	1038.7	1046.5	1042.6	1046.5	1034.8	1034.8	1030.9
55°	789.7	785.9	789.7	793.6	789.7	785.9	789.7	789.7	785.9	785.9	785.9
57.5°	579.7	571.8	571.8	571.8	571.8	571.8	579.7	575.9	587.5	579.7	583.5
60°	431.9	435.7	435.7	439.5	435.7	435.7	431.9	439.5	439.5	443.6	443.6
62.5°	318.9	330.7	322.8	330.7	322.8	330.7	318.9	322.8	322.8	326.8	330.7
65°	206.3	206.3	206.3	210.1	206.3	206.3	206.3	210.1	213.9	210.1	221.7
67.5°	140.1	143.9	151.8	147.7	151.8	143.9	140.1	143.9	143.9	155.6	151.8
70°	112.9	101.2	101.2	112.9	101.2	101.2	112.9	105.0	101.2	108.8	105.0
72.5°	66.1	58.3	66.1	66.1	66.1	58.3	66.1	58.3	62.3	62.3	70.0
75°	35.1	31.1	27.2	38.9	27.2	31.1	35.1	35.1	35.1	35.1	38.9
77.5°	23.4	19.4	27.2	27.2	27.2	19.4	23.4	19.4	23.4	19.4	23.4
80°	11.7	15.6	11.7	19.4	11.7	15.6	11.7	19.4	11.7	15.6	15.6
82.5°	3.8	7.8	7.8	7.8	7.8	7.8	3.8	3.8	7.8	7.8	3.8
85°	0.0	7.8	3.8	3.8	3.8	7.8	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	0.0	0.0	3.8	0.0	0.0	3.8	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: P248647

CATALOG NUMBER: LD8B150D010 ER8B150930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4
2.5°	8049.0	8037.3	8041.4	8018.0	8018.0	8010.1	8014.1	7994.6	7986.9	7979.1	7990.8
5°	8165.8	8146.4	8130.7	8095.9	8076.2	8053.0	8041.4	8010.1	7983.0	7959.5	7955.7
7.5°	8259.2	8216.4	8189.1	8142.4	8107.5	8080.3	8041.4	7998.4	7963.6	7932.3	7909.1
10°	8298.1	8255.3	8212.6	8154.2	8115.1	8064.6	8025.7	7971.2	7924.7	7881.9	7854.5
12.5°	8301.9	8247.4	8208.5	8142.4	8091.8	8037.3	7994.6	7932.3	7877.8	7835.1	7792.4
15°	8267.0	8216.4	8169.6	8099.7	8049.0	7998.4	7948.0	7881.9	7831.3	7780.6	7749.6
17.5°	8189.1	8142.4	8088.0	8021.9	7975.2	7928.5	7874.0	7819.6	7761.1	7706.7	7667.8
20°	8088.0	8037.3	7990.8	7924.7	7885.7	7835.1	7784.6	7726.3	7679.5	7625.0	7582.3
22.5°	7936.3	7889.6	7846.8	7807.9	7745.7	7706.7	7671.8	7605.6	7558.9	7508.3	7461.7
25°	7718.4	7671.8	7636.7	7590.0	7562.7	7520.0	7484.9	7426.6	7383.9	7337.2	7298.2
27.5°	7360.5	7333.2	7313.7	7286.5	7263.3	7243.8	7224.4	7177.7	7146.6	7103.8	7064.9
30°	6823.6	6819.7	6808.1	6796.4	6811.9	6811.9	6811.9	6804.2	6777.0	6745.7	6718.5
32.5°	6135.0	6142.9	6158.4	6170.1	6201.1	6236.2	6267.3	6282.9	6282.9	6263.5	6251.8
35°	5314.2	5325.9	5349.3	5380.4	5419.3	5462.0	5532.0	5547.7	5559.3	5559.3	5543.7
37.5°	4462.1	4458.3	4481.6	4508.9	4532.3	4563.4	4613.9	4625.7	4645.0	4637.4	4621.7
40°	3633.5	3614.1	3606.3	3614.1	3641.3	3629.7	3641.3	3633.5	3633.5	3606.3	3606.3
42.5°	2867.1	2843.9	2828.2	2816.6	2816.6	2789.3	2769.9	2750.5	2738.8	2719.3	2715.5
45°	2209.8	2182.4	2163.1	2155.2	2143.7	2108.6	2085.2	2061.9	2034.6	2026.9	2030.8
47.5°	1715.6	1688.5	1680.6	1661.2	1641.6	1622.3	1606.7	1579.5	1575.6	1560.0	1575.6
50°	1322.7	1314.9	1303.3	1295.4	1283.8	1268.2	1252.7	1237.1	1229.3	1229.3	1233.1
52.5°	1027.1	1030.9	1019.2	1007.6	999.8	999.8	980.3	976.5	976.5	960.9	976.5
55°	785.9	781.9	785.9	778.1	778.1	766.4	766.4	754.7	754.7	743.0	750.8
57.5°	575.9	583.5	575.9	579.7	587.5	575.9	571.8	560.2	568.0	560.2	564.1
60°	447.4	447.4	447.4	443.6	443.6	439.5	439.5	435.7	435.7	427.9	435.7
62.5°	330.7	334.5	334.5	334.5	338.5	334.5	330.7	334.5	330.7	330.7	334.5
65°	217.9	221.7	221.7	217.9	225.7	217.9	221.7	225.7	229.5	225.7	229.5
67.5°	147.7	147.7	151.8	155.6	151.8	155.6	159.5	155.6	159.5	167.4	159.5
70°	108.8	112.9	112.9	108.8	105.0	108.8	105.0	116.7	116.7	116.7	124.4
72.5°	70.0	70.0	66.1	66.1	66.1	66.1	66.1	77.8	70.0	66.1	74.0
75°	38.9	42.7	42.7	31.1	35.1	42.7	31.1	35.1	46.7	38.9	46.7
77.5°	23.4	23.4	23.4	23.4	23.4	23.4	31.1	27.2	27.2	27.2	31.1
80°	19.4	15.6	15.6	11.7	15.6	15.6	15.6	23.4	19.4	19.4	23.4
82.5°	7.8	7.8	3.8	0.0	7.8	7.8	7.8	7.8	7.8	7.8	15.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	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: P248647

CATALOG NUMBER: LD8B150D010 ER8B150930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4
2.5°	7959.5	7959.5	7955.7	7948.0	7932.3	7932.3	7928.5	7916.8	7909.1	7905.1	7905.1
5°	7920.6	7905.1	7889.6	7846.8	7846.8	7838.9	7815.7	7800.0	7792.4	7772.8	7765.2
7.5°	7885.7	7838.9	7811.8	7784.6	7749.6	7733.9	7706.7	7695.0	7667.8	7648.4	7636.7
10°	7800.0	7769.0	7733.9	7691.2	7663.9	7632.9	7601.6	7578.4	7543.3	7523.8	7508.3
12.5°	7741.7	7695.0	7663.9	7617.2	7570.6	7543.3	7500.6	7473.4	7438.3	7399.4	7376.1
15°	7687.4	7636.7	7594.0	7543.3	7492.8	7461.7	7411.2	7380.0	7329.4	7290.5	7263.3
17.5°	7605.6	7562.7	7516.2	7453.9	7407.2	7368.3	7313.7	7275.0	7228.2	7177.7	7150.4
20°	7520.0	7469.3	7422.8	7360.5	7313.7	7267.1	7212.7	7169.9	7115.3	7068.8	7037.6
22.5°	7407.2	7348.8	7309.9	7247.6	7193.1	7142.7	7092.1	7041.6	6990.9	6952.0	6916.9
25°	7243.8	7181.5	7138.8	7088.1	7037.6	6998.7	6936.5	6905.4	6854.8	6819.7	6784.6
27.5°	7010.3	6963.7	6924.8	6874.2	6831.5	6800.3	6753.6	6722.5	6679.6	6648.5	6621.3
30°	6668.2	6629.1	6594.2	6543.5	6512.4	6485.2	6442.3	6415.1	6384.0	6349.0	6341.3
32.5°	6209.0	6177.8	6142.9	6107.8	6084.5	6068.9	6033.8	6018.3	5987.3	5967.6	5948.4
35°	5516.4	5489.2	5469.8	5454.3	5446.5	5450.3	5442.7	5458.1	5465.9	5462.0	5465.9
37.5°	4610.1	4594.4	4602.3	4613.9	4652.8	4703.5	4750.1	4820.1	4866.8	4913.6	4956.3
40°	3598.6	3610.3	3641.3	3711.3	3812.5	3925.4	4030.4	4162.7	4295.0	4388.4	4473.8
42.5°	2715.5	2750.5	2828.2	2929.4	3081.2	3248.4	3411.9	3606.3	3765.9	3921.4	4030.4
45°	2042.5	2089.1	2190.2	2330.3	2497.6	2692.1	2898.3	3116.2	3306.8	3466.4	3586.9
47.5°	1591.3	1634.0	1735.2	1882.9	2089.1	2291.4	2505.4	2731.0	2929.4	3085.1	3190.1
50°	1256.5	1311.0	1400.5	1556.2	1762.4	1976.3	2198.1	2419.7	2606.5	2738.8	2832.2
52.5°	988.2	1038.7	1124.3	1287.8	1497.9	1711.8	1917.9	2135.8	2299.2	2427.5	2489.9
55°	766.4	813.2	902.5	1038.7	1237.1	1447.2	1653.4	1840.2	1991.8	2085.2	2143.7
57.5°	583.5	618.6	680.9	817.0	996.0	1190.4	1365.6	1552.2	1669.1	1735.2	1773.9
60°	443.6	470.8	537.0	642.0	805.3	972.6	1120.4	1260.6	1353.9	1408.3	1447.2
62.5°	334.5	365.8	412.3	501.9	626.3	762.5	886.9	992.0	1069.8	1104.9	1132.1
65°	229.5	252.9	287.9	357.9	463.0	560.2	657.5	735.3	785.9	824.8	840.4
67.5°	171.2	186.8	206.3	260.7	334.5	412.3	478.4	532.9	587.5	603.1	630.2
70°	128.5	140.1	159.5	198.4	241.1	295.6	350.2	381.3	420.2	447.4	455.2
72.5°	81.7	85.5	105.0	128.5	163.3	198.4	233.5	260.7	284.1	299.6	307.3
75°	46.7	70.0	70.0	93.4	116.7	132.3	155.6	175.0	186.8	198.4	198.4
77.5°	31.1	42.7	46.7	58.3	70.0	89.6	108.8	120.6	132.3	136.1	136.1
80°	27.2	31.1	31.1	42.7	50.6	66.1	77.8	81.7	89.6	93.4	101.2
82.5°	11.7	15.6	19.4	31.1	35.1	35.1	46.7	50.6	58.3	62.3	62.3
85°	3.8	7.8	7.8	11.7	19.4	23.4	27.2	31.1	35.1	35.1	38.9
87.5°	3.8	3.8	0.0	3.8	7.8	7.8	15.6	15.6	15.6	23.4	23.4
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: P248647

CATALOG NUMBER: LD8B150D010 ER8B150930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4	7967.4
2.5°	7897.4	7901.3	7885.7	7881.9	7874.0	7877.8	7885.7
5°	7753.5	7757.3	7741.7	7726.3	7726.3	7722.2	7726.3
7.5°	7617.2	7621.2	7597.8	7590.0	7574.5	7578.4	7578.4
10°	7481.1	7481.1	7446.1	7442.2	7430.4	7426.6	7426.6
12.5°	7348.8	7337.2	7309.9	7294.3	7302.2	7278.9	7278.9
15°	7232.1	7212.7	7177.7	7166.0	7146.6	7138.8	7138.8
17.5°	7111.5	7095.9	7064.9	7041.6	7018.1	7014.3	7018.1
20°	6994.8	6979.2	6940.3	6924.8	6905.4	6905.4	6897.5
22.5°	6878.0	6862.5	6827.6	6815.9	6788.7	6788.7	6792.5
25°	6757.5	6745.7	6706.8	6699.2	6695.3	6679.6	6687.4
27.5°	6594.2	6586.3	6555.2	6543.5	6528.0	6524.1	6531.8
30°	6294.5	6282.9	6259.7	6247.9	6220.7	6224.6	6232.2
32.5°	5921.1	5905.5	5874.4	5862.6	5839.4	5831.6	5835.5
35°	5454.3	5442.7	5415.4	5415.4	5392.0	5384.2	5392.0
37.5°	4979.7	4991.3	4979.7	4991.3	4979.7	4975.7	4979.7
40°	4532.3	4575.0	4582.8	4625.7	4610.1	4633.3	4629.5
42.5°	4104.3	4174.3	4201.6	4236.6	4228.9	4244.4	4256.1
45°	3672.4	3730.8	3758.0	3781.5	3785.3	3793.1	3796.9
47.5°	3263.9	3310.6	3314.5	3341.7	3337.9	3337.9	3349.5
50°	2882.8	2913.9	2921.6	2941.1	2925.6	2917.7	2921.6
52.5°	2528.8	2559.8	2552.0	2559.8	2540.4	2532.6	2536.5
55°	2166.9	2182.4	2182.4	2182.4	2159.2	2159.2	2159.2
57.5°	1797.3	1801.3	1793.5	1797.3	1793.5	1770.1	1766.2
60°	1459.0	1459.0	1454.9	1459.0	1447.2	1435.6	1435.6
62.5°	1139.8	1147.7	1163.1	1147.7	1139.8	1147.7	1135.9
65°	852.1	867.5	863.6	871.5	867.5	867.5	859.7
67.5°	642.0	645.8	649.6	653.7	653.7	653.7	653.7
70°	470.8	482.5	478.4	478.4	478.4	478.4	501.9
72.5°	315.1	330.7	326.8	334.5	334.5	342.4	334.5
75°	213.9	229.5	221.7	233.5	229.5	221.7	241.1
77.5°	143.9	151.8	155.6	159.5	155.6	151.8	155.6
80°	101.2	108.8	105.0	108.8	108.8	108.8	112.9
82.5°	62.3	74.0	70.0	74.0	70.0	74.0	74.0
85°	42.7	46.7	38.9	46.7	42.7	42.7	50.6
87.5°	27.2	23.4	23.4	27.2	23.4	27.2	23.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)