

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: P248973

Luminaire Tested: **LD8B200D010 ER8B200930 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248973
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 ER8B200930 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13647.1 lumens
Efficiency: N/A
Efficacy: 61.1 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

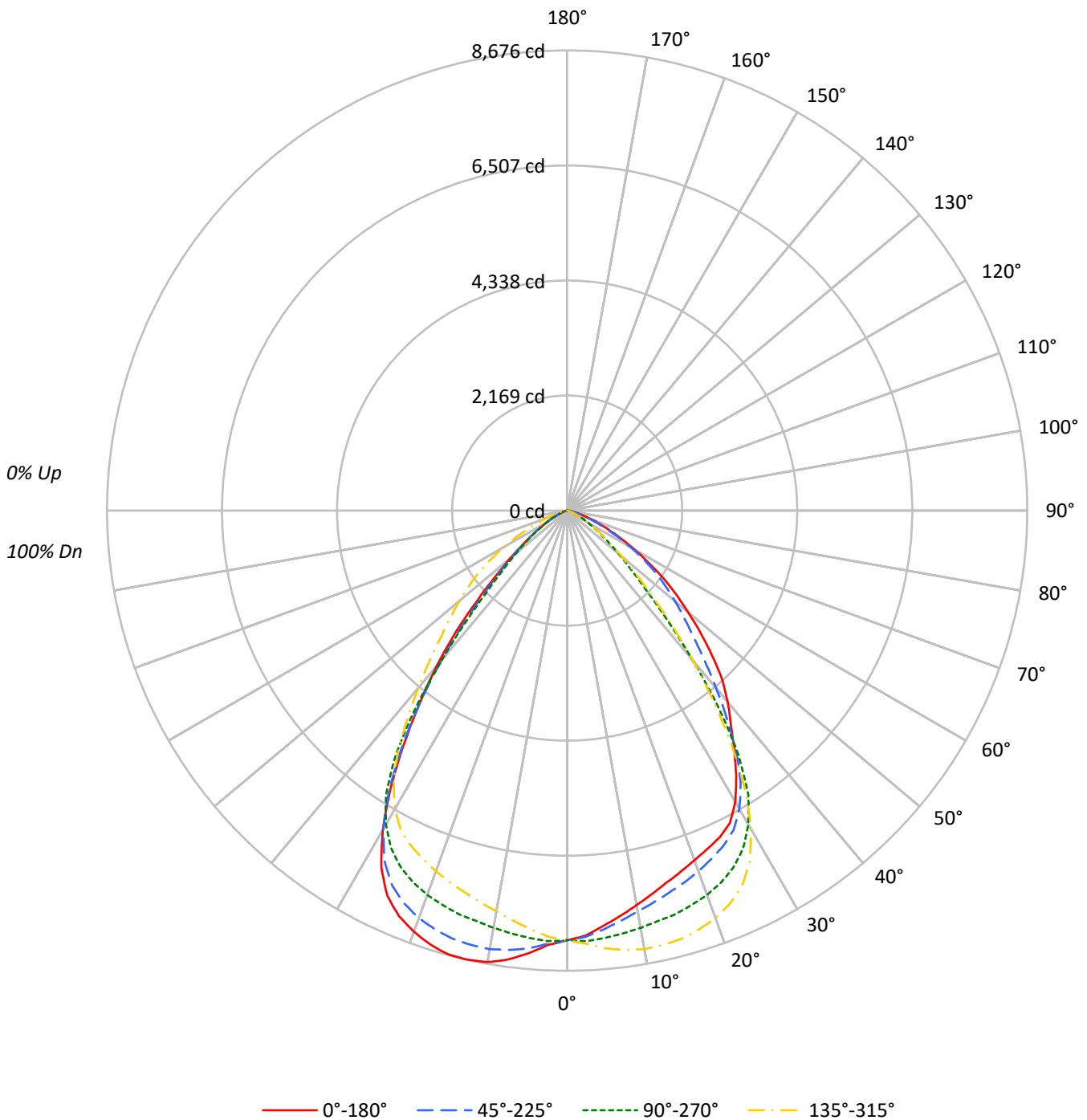
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	771.1	5.7
10°-20°	2233.1	16.4
20°-30°	3381.4	24.8
30°-40°	3389.0	24.8
40°-50°	2128.1	15.6
50°-60°	1134.1	8.3
60°-70°	466.3	3.4
70°-80°	123.2	0.9
80°-90°	20.8	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°	6385.6	46.8
0°-40°	9774.5	71.6
0°-60°	13036.7	95.5
0°-90°	13647.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13647.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8102	8102	8102	8102	8102	
5°	7857	8090	8379	8090	7857	741
15°	7259	7880	8664	7880	7259	2053
25°	6800	7421	8019	7421	6800	3119
35°	5483	5637	5348	5637	5483	3435
45°	3861	2065	2389	2065	3861	2969
55°	2196	764	807	764	2196	1958
65°	874	233	214	233	874	907
75°	245	48	40	48	245	278
85°	52	0	4	0	52	57
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°	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8
2.5°	8018.7	8010.8	8006.9	8014.9	8018.7	8034.5	8030.6	8038.5	8038.5	8042.5	8050.3
5°	7856.6	7852.5	7856.6	7856.6	7872.4	7888.1	7884.3	7896.2	7903.9	7923.9	7931.6
7.5°	7706.3	7706.3	7702.3	7718.1	7726.0	7749.8	7745.7	7765.6	7777.5	7797.1	7824.8
10°	7552.0	7552.0	7555.9	7567.8	7571.8	7607.3	7607.3	7635.0	7650.8	7670.7	7706.3
12.5°	7401.6	7401.6	7425.4	7417.4	7433.2	7460.9	7472.8	7500.5	7524.3	7563.8	7599.5
15°	7259.1	7259.1	7267.1	7286.8	7298.7	7334.4	7354.1	7385.8	7413.5	7453.1	7504.5
17.5°	7136.5	7132.7	7136.5	7160.4	7184.2	7215.7	7231.5	7271.0	7298.7	7350.2	7397.7
20°	7014.0	7021.9	7021.9	7041.7	7057.5	7096.9	7112.7	7156.5	7188.0	7235.4	7290.9
22.5°	6907.2	6903.2	6903.2	6930.9	6942.8	6978.3	6994.0	7033.6	7069.4	7108.9	7160.4
25°	6800.3	6792.4	6808.3	6812.2	6820.1	6859.6	6871.5	6899.2	6934.8	6970.5	7021.9
27.5°	6642.0	6634.2	6638.1	6653.9	6665.8	6697.4	6705.4	6733.1	6760.8	6792.4	6836.0
30°	6337.3	6329.6	6325.7	6353.4	6365.3	6388.8	6400.7	6448.3	6456.1	6491.7	6523.3
32.5°	5933.9	5930.0	5937.9	5961.6	5973.5	6005.2	6021.0	6048.7	6068.4	6088.3	6119.9
35°	5483.0	5475.1	5483.0	5506.8	5506.8	5534.5	5546.4	5558.0	5554.2	5558.0	5550.3
37.5°	5063.7	5059.6	5063.7	5075.4	5063.7	5075.4	5063.7	5039.9	4996.5	4948.9	4901.3
40°	4707.6	4711.6	4687.9	4703.7	4660.1	4652.3	4608.8	4549.4	4462.4	4367.4	4233.0
42.5°	4327.8	4316.0	4300.2	4308.0	4272.6	4244.7	4173.5	4098.5	3987.6	3829.4	3667.1
45°	3861.1	3857.1	3849.2	3845.3	3821.5	3793.8	3734.4	3647.4	3524.8	3362.7	3168.7
47.5°	3406.0	3394.2	3394.2	3398.1	3370.4	3366.6	3318.9	3243.9	3137.1	2978.8	2777.1
50°	2970.9	2967.0	2974.9	2990.7	2970.9	2963.0	2931.4	2880.0	2785.0	2650.6	2460.6
52.5°	2579.2	2575.4	2583.3	2603.0	2595.0	2603.0	2571.5	2531.9	2468.6	2338.0	2171.8
55°	2195.6	2195.6	2195.6	2219.2	2219.2	2219.2	2203.4	2179.8	2120.4	2025.4	1871.3
57.5°	1796.1	1800.0	1823.8	1827.6	1823.8	1831.7	1827.6	1803.8	1764.5	1697.2	1578.5
60°	1459.8	1459.8	1471.6	1483.5	1479.5	1483.5	1483.5	1471.6	1432.1	1376.7	1281.8
62.5°	1155.1	1167.0	1159.0	1167.0	1182.8	1167.0	1159.0	1151.3	1123.6	1087.9	1008.8
65°	874.3	882.2	882.2	886.2	878.2	882.2	866.4	854.5	838.7	799.2	747.7
67.5°	664.6	664.6	664.6	664.6	660.6	656.7	652.8	640.9	613.2	597.4	541.9
70°	510.3	486.5	486.5	486.5	486.5	490.7	478.8	463.0	454.9	427.2	387.8
72.5°	340.1	348.2	340.1	340.1	332.4	336.3	320.5	312.4	304.7	288.9	265.1
75°	245.3	225.5	233.4	237.4	225.5	233.4	217.6	201.8	201.8	189.9	178.0
77.5°	158.3	154.4	158.3	162.2	158.3	154.4	146.4	138.4	138.4	134.5	122.6
80°	114.8	110.8	110.8	110.8	106.8	110.8	102.9	102.9	94.9	91.0	83.1
82.5°	75.2	75.2	71.2	75.2	71.2	75.2	63.3	63.3	63.3	59.3	51.5
85°	51.5	43.5	43.5	47.5	39.6	47.5	43.5	39.6	35.6	35.6	31.6
87.5°	23.8	27.7	23.8	27.7	23.8	23.8	27.7	23.8	23.8	15.8	15.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8
2.5°	8062.2	8066.2	8066.2	8082.1	8089.9	8093.8	8093.8	8125.6	8113.7	8121.6	8129.5
5°	7947.7	7971.2	7979.2	7979.2	8022.7	8038.5	8054.3	8089.9	8093.8	8117.6	8145.3
7.5°	7836.7	7864.4	7880.4	7915.8	7943.5	7971.2	8018.7	8042.5	8066.2	8097.9	8133.4
10°	7730.0	7761.7	7793.3	7821.0	7864.4	7900.0	7931.6	7987.0	8014.9	8058.3	8105.7
12.5°	7627.2	7670.7	7698.4	7745.7	7793.3	7824.8	7872.4	7923.9	7967.3	8010.8	8066.2
15°	7536.1	7587.6	7619.2	7670.7	7722.1	7765.6	7817.1	7880.4	7912.0	7963.5	8014.9
17.5°	7437.2	7492.7	7532.2	7579.6	7643.0	7690.4	7734.0	7797.1	7836.7	7892.1	7951.5
20°	7334.4	7389.7	7437.2	7484.7	7548.0	7595.4	7646.9	7710.2	7753.7	7809.0	7856.6
22.5°	7211.8	7263.3	7314.5	7369.9	7433.2	7472.8	7532.2	7587.6	7635.0	7686.5	7734.0
25°	7053.6	7116.9	7156.5	7207.7	7259.1	7302.6	7366.0	7421.4	7460.9	7508.5	7552.0
27.5°	6867.6	6915.1	6946.7	6990.2	7041.7	7081.2	7128.6	7184.2	7223.7	7267.1	7298.7
30°	6551.0	6594.6	6622.3	6653.9	6705.4	6741.0	6780.6	6831.9	6859.6	6891.3	6919.0
32.5°	6135.7	6171.3	6187.1	6210.9	6246.5	6282.0	6313.8	6357.3	6369.2	6388.8	6388.8
35°	5534.5	5542.3	5538.4	5546.4	5562.2	5581.8	5609.5	5637.2	5653.0	5653.0	5641.3
37.5°	4830.3	4782.9	4731.4	4691.8	4680.0	4672.0	4687.9	4699.7	4715.6	4723.4	4703.7
40°	4098.5	3991.7	3876.9	3774.0	3702.8	3671.2	3659.3	3667.1	3667.1	3694.8	3694.8
42.5°	3469.5	3303.1	3133.2	2978.8	2875.9	2796.9	2761.2	2761.2	2765.2	2785.0	2796.9
45°	2947.2	2737.5	2539.6	2369.7	2227.2	2124.3	2076.9	2065.0	2061.1	2068.9	2096.6
47.5°	2547.7	2330.1	2124.3	1914.8	1764.5	1661.5	1618.1	1602.1	1586.3	1602.1	1606.2
50°	2235.2	2009.6	1792.1	1582.4	1424.1	1333.1	1277.7	1254.0	1250.0	1250.0	1258.0
52.5°	1950.2	1740.7	1523.1	1309.4	1143.2	1056.3	1004.9	993.0	977.2	993.0	993.0
55°	1681.3	1471.6	1258.0	1056.3	917.8	826.8	779.3	763.5	755.6	767.4	767.4
57.5°	1388.6	1210.5	1012.8	830.8	692.3	629.0	593.3	573.6	569.6	577.5	569.6
60°	1139.4	989.1	818.9	652.8	545.9	478.8	451.1	443.0	435.1	443.0	443.0
62.5°	902.0	775.4	636.8	510.3	419.3	371.9	340.1	340.1	336.3	336.3	340.1
65°	668.6	569.6	470.7	363.9	292.8	257.2	233.4	233.4	229.5	233.4	229.5
67.5°	486.5	419.3	340.1	265.1	209.7	189.9	174.1	162.2	170.2	162.2	158.3
70°	356.1	300.5	245.3	201.8	162.2	142.5	130.6	126.6	118.7	118.7	118.7
72.5°	237.4	201.8	166.1	130.6	106.8	87.0	83.1	75.2	67.3	71.2	79.1
75°	158.3	134.5	118.7	94.9	71.2	71.2	47.5	47.5	39.6	47.5	35.6
77.5°	110.8	91.0	71.2	59.3	47.5	43.5	31.6	31.6	27.7	27.7	27.7
80°	79.1	67.3	51.5	43.5	31.6	31.6	27.7	23.8	19.7	19.7	23.8
82.5°	47.5	35.6	35.6	31.6	19.7	15.8	11.9	15.8	8.0	8.0	8.0
85°	27.7	23.8	19.7	11.9	8.0	8.0	3.9	0.0	3.9	3.9	0.0
87.5°	15.8	8.0	8.0	3.9	0.0	3.9	3.9	0.0	0.0	0.0	8.0
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°	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8
2.5°	8149.3	8145.3	8153.3	8153.3	8177.0	8173.0	8184.9	8184.9	8177.0	8180.9	8196.8
5°	8177.0	8188.9	8212.6	8232.4	8267.9	8283.9	8303.6	8323.4	8327.3	8339.2	8351.1
7.5°	8177.0	8216.6	8244.3	8279.8	8327.3	8355.0	8398.5	8434.2	8450.0	8469.6	8493.5
10°	8161.1	8200.7	8252.1	8291.7	8351.1	8394.6	8438.1	8493.5	8517.2	8548.7	8580.6
12.5°	8129.5	8173.0	8228.4	8279.8	8347.1	8386.6	8442.0	8493.5	8529.1	8572.6	8608.3
15°	8082.1	8133.4	8184.9	8236.3	8307.5	8355.0	8406.5	8465.8	8501.4	8548.7	8580.6
17.5°	8006.9	8062.2	8109.8	8157.2	8224.4	8279.8	8327.3	8382.7	8418.4	8457.9	8501.4
20°	7915.8	7967.3	8018.7	8058.3	8125.6	8173.0	8224.4	8275.9	8303.6	8311.5	8378.8
22.5°	7801.3	7836.7	7876.3	7939.6	7979.2	8022.7	8070.2	8117.6	8145.3	8188.9	8212.6
25°	7611.3	7646.9	7690.4	7718.1	7765.6	7801.3	7848.6	7900.0	7915.8	7947.7	7971.2
27.5°	7346.2	7366.0	7385.8	7409.5	7437.2	7457.0	7484.7	7508.5	7524.3	7540.1	7555.9
30°	6926.9	6926.9	6926.9	6911.1	6923.0	6934.8	6938.8	6934.8	6934.8	6930.9	6930.9
32.5°	6373.0	6341.5	6305.8	6274.2	6262.4	6246.5	6238.6	6226.7	6207.0	6195.1	6199.0
35°	5625.3	5554.2	5510.7	5471.2	5439.5	5415.8	5403.9	5392.0	5388.1	5372.3	5356.4
37.5°	4691.8	4640.4	4608.8	4585.0	4557.3	4533.5	4537.5	4541.5	4553.3	4545.4	4549.4
40°	3702.8	3690.9	3702.8	3675.1	3667.1	3675.1	3694.8	3722.6	3738.4	3754.2	3781.9
42.5°	2816.6	2836.4	2864.2	2864.2	2875.9	2891.8	2915.5	2959.1	2982.8	3010.4	3042.2
45°	2120.4	2144.1	2179.8	2191.6	2199.5	2219.2	2247.0	2282.6	2298.4	2322.2	2349.8
47.5°	1633.9	1649.7	1669.4	1689.2	1709.0	1716.9	1744.6	1744.6	1764.5	1780.3	1788.0
50°	1273.8	1289.6	1305.4	1317.3	1325.2	1337.1	1345.0	1356.9	1360.8	1368.7	1372.7
52.5°	996.9	1016.7	1016.7	1024.5	1036.4	1048.4	1044.4	1048.4	1052.2	1052.2	1064.1
55°	779.3	779.3	791.2	791.2	799.2	795.1	799.2	799.2	799.2	799.2	803.1
57.5°	581.5	585.5	597.4	589.4	585.5	593.3	585.5	593.3	589.4	597.4	585.5
60°	446.9	446.9	451.1	451.1	454.9	454.9	454.9	451.1	451.1	446.9	446.9
62.5°	336.3	340.1	344.3	340.1	340.1	340.1	336.3	336.3	332.4	328.2	328.2
65°	225.5	221.6	229.5	221.6	225.5	225.5	221.6	225.5	213.7	217.6	213.7
67.5°	162.2	158.3	154.4	158.3	154.4	150.3	150.3	154.4	158.3	146.4	146.4
70°	106.8	110.8	106.8	110.8	114.8	114.8	110.8	106.8	110.8	102.9	106.8
72.5°	67.3	67.3	67.3	67.3	67.3	71.2	71.2	71.2	63.3	63.3	59.3
75°	31.6	43.5	35.6	31.6	43.5	43.5	39.6	39.6	35.6	35.6	35.6
77.5°	31.6	23.8	23.8	23.8	23.8	23.8	23.8	23.8	19.7	23.8	19.7
80°	15.8	15.8	15.8	11.9	15.8	15.8	19.7	15.8	15.8	11.9	19.7
82.5°	8.0	8.0	8.0	0.0	3.9	8.0	8.0	3.9	8.0	8.0	3.9
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: P248973

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8
2.5°	8192.8	8188.9	8192.8	8196.8	8192.8	8188.9	8192.8	8196.8	8180.9	8177.0	8184.9
5°	8366.9	8366.9	8374.8	8378.8	8374.8	8366.9	8366.9	8351.1	8339.2	8327.3	8323.4
7.5°	8517.2	8525.2	8533.1	8536.9	8533.1	8525.2	8517.2	8493.5	8469.6	8450.0	8434.2
10°	8608.3	8620.2	8636.0	8643.7	8636.0	8620.2	8608.3	8580.6	8548.7	8517.2	8493.5
12.5°	8647.8	8659.7	8679.3	8675.5	8679.3	8659.7	8647.8	8608.3	8572.6	8529.1	8493.5
15°	8620.2	8636.0	8655.6	8663.5	8655.6	8636.0	8620.2	8580.6	8548.7	8501.4	8465.8
17.5°	8533.1	8556.8	8568.7	8580.6	8568.7	8556.8	8533.1	8501.4	8457.9	8418.4	8382.7
20°	8414.3	8430.3	8446.1	8450.0	8446.1	8430.3	8414.3	8378.8	8311.5	8303.6	8275.9
22.5°	8244.3	8256.2	8291.7	8279.8	8291.7	8256.2	8244.3	8212.6	8188.9	8145.3	8117.6
25°	7998.9	8010.8	8014.9	8018.7	8014.9	8010.8	7998.9	7971.2	7947.7	7915.8	7900.0
27.5°	7575.7	7575.7	7583.6	7587.6	7583.6	7575.7	7575.7	7555.9	7540.1	7524.3	7508.5
30°	6934.8	6934.8	6934.8	6954.7	6934.8	6934.8	6934.8	6930.9	6930.9	6934.8	6934.8
32.5°	6195.1	6187.1	6179.3	6187.1	6179.3	6187.1	6195.1	6199.0	6195.1	6207.0	6226.7
35°	5356.4	5352.4	5364.3	5348.5	5364.3	5352.4	5356.4	5356.4	5372.3	5388.1	5392.0
37.5°	4553.3	4545.4	4561.2	4545.4	4561.2	4545.4	4553.3	4549.4	4545.4	4553.3	4541.5
40°	3789.9	3797.7	3797.7	3829.4	3797.7	3797.7	3789.9	3781.9	3754.2	3738.4	3722.6
42.5°	3058.0	3081.7	3073.8	3097.5	3073.8	3081.7	3058.0	3042.2	3010.4	2982.8	2959.1
45°	2365.6	2381.6	2381.6	2389.4	2381.6	2381.6	2365.6	2349.8	2322.2	2298.4	2282.6
47.5°	1815.7	1815.7	1815.7	1819.8	1815.7	1815.7	1815.7	1788.0	1780.3	1764.5	1744.6
50°	1380.6	1384.5	1388.6	1392.5	1388.6	1384.5	1380.6	1372.7	1368.7	1360.8	1356.9
52.5°	1060.2	1064.1	1056.3	1064.1	1056.3	1064.1	1060.2	1064.1	1052.2	1052.2	1048.4
55°	803.1	799.2	803.1	807.0	803.1	799.2	803.1	803.1	799.2	799.2	799.2
57.5°	589.4	581.5	581.5	581.5	581.5	581.5	589.4	585.5	597.4	589.4	593.3
60°	439.2	443.0	443.0	446.9	443.0	443.0	439.2	446.9	446.9	451.1	451.1
62.5°	324.3	336.3	328.2	336.3	328.2	336.3	324.3	328.2	328.2	332.4	336.3
65°	209.7	209.7	209.7	213.7	209.7	209.7	209.7	213.7	217.6	213.7	225.5
67.5°	142.5	146.4	154.4	150.3	154.4	146.4	142.5	146.4	146.4	158.3	154.4
70°	114.8	102.9	102.9	114.8	102.9	102.9	114.8	106.8	102.9	110.8	106.8
72.5°	67.3	59.3	67.3	67.3	67.3	59.3	67.3	59.3	63.3	63.3	71.2
75°	35.6	31.6	27.7	39.6	27.7	31.6	35.6	35.6	35.6	35.6	39.6
77.5°	23.8	19.7	27.7	27.7	27.7	19.7	23.8	19.7	23.8	19.7	23.8
80°	11.9	15.8	11.9	19.7	11.9	15.8	11.9	19.7	11.9	15.8	15.8
82.5°	3.9	8.0	8.0	8.0	8.0	8.0	3.9	3.9	8.0	8.0	3.9
85°	0.0	8.0	3.9	3.9	3.9	8.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	0.0	0.0	3.9	0.0	0.0	3.9	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: P248973

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8
2.5°	8184.9	8173.0	8177.0	8153.3	8153.3	8145.3	8149.3	8129.5	8121.6	8113.7	8125.6
5°	8303.6	8283.9	8267.9	8232.4	8212.6	8188.9	8177.0	8145.3	8117.6	8093.8	8089.9
7.5°	8398.5	8355.0	8327.3	8279.8	8244.3	8216.6	8177.0	8133.4	8097.9	8066.2	8042.5
10°	8438.1	8394.6	8351.1	8291.7	8252.1	8200.7	8161.1	8105.7	8058.3	8014.9	7987.0
12.5°	8442.0	8386.6	8347.1	8279.8	8228.4	8173.0	8129.5	8066.2	8010.8	7967.3	7923.9
15°	8406.5	8355.0	8307.5	8236.3	8184.9	8133.4	8082.1	8014.9	7963.5	7912.0	7880.4
17.5°	8327.3	8279.8	8224.4	8157.2	8109.8	8062.2	8006.9	7951.5	7892.1	7836.7	7797.1
20°	8224.4	8173.0	8125.6	8058.3	8018.7	7967.3	7915.8	7856.6	7809.0	7753.7	7710.2
22.5°	8070.2	8022.7	7979.2	7939.6	7876.3	7836.7	7801.3	7734.0	7686.5	7635.0	7587.6
25°	7848.6	7801.3	7765.6	7718.1	7690.4	7646.9	7611.3	7552.0	7508.5	7460.9	7421.4
27.5°	7484.7	7457.0	7437.2	7409.5	7385.8	7366.0	7346.2	7298.7	7267.1	7223.7	7184.2
30°	6938.8	6934.8	6923.0	6911.1	6926.9	6926.9	6926.9	6919.0	6891.3	6859.6	6831.9
32.5°	6238.6	6246.5	6262.4	6274.2	6305.8	6341.5	6373.0	6388.8	6388.8	6369.2	6357.3
35°	5403.9	5415.8	5439.5	5471.2	5510.7	5554.2	5625.3	5641.3	5653.0	5653.0	5637.2
37.5°	4537.5	4533.5	4557.3	4585.0	4608.8	4640.4	4691.8	4703.7	4723.4	4715.6	4699.7
40°	3694.8	3675.1	3667.1	3675.1	3702.8	3690.9	3702.8	3694.8	3694.8	3667.1	3667.1
42.5°	2915.5	2891.8	2875.9	2864.2	2864.2	2836.4	2816.6	2796.9	2785.0	2765.2	2761.2
45°	2247.0	2219.2	2199.5	2191.6	2179.8	2144.1	2120.4	2096.6	2068.9	2061.1	2065.0
47.5°	1744.6	1716.9	1709.0	1689.2	1669.4	1649.7	1633.9	1606.2	1602.1	1586.3	1602.1
50°	1345.0	1337.1	1325.2	1317.3	1305.4	1289.6	1273.8	1258.0	1250.0	1250.0	1254.0
52.5°	1044.4	1048.4	1036.4	1024.5	1016.7	1016.7	996.9	993.0	993.0	977.2	993.0
55°	799.2	795.1	799.2	791.2	791.2	779.3	779.3	767.4	767.4	755.6	763.5
57.5°	585.5	593.3	585.5	589.4	597.4	585.5	581.5	569.6	577.5	569.6	573.6
60°	454.9	454.9	454.9	451.1	451.1	446.9	446.9	443.0	443.0	435.1	443.0
62.5°	336.3	340.1	340.1	340.1	344.3	340.1	336.3	340.1	336.3	336.3	340.1
65°	221.6	225.5	225.5	221.6	229.5	221.6	225.5	229.5	233.4	229.5	233.4
67.5°	150.3	150.3	154.4	158.3	154.4	158.3	162.2	158.3	162.2	170.2	162.2
70°	110.8	114.8	114.8	110.8	106.8	110.8	106.8	118.7	118.7	118.7	126.6
72.5°	71.2	71.2	67.3	67.3	67.3	67.3	67.3	79.1	71.2	67.3	75.2
75°	39.6	43.5	43.5	31.6	35.6	43.5	31.6	35.6	47.5	39.6	47.5
77.5°	23.8	23.8	23.8	23.8	23.8	23.8	31.6	27.7	27.7	27.7	31.6
80°	19.7	15.8	15.8	11.9	15.8	15.8	15.8	23.8	19.7	19.7	23.8
82.5°	8.0	8.0	3.9	0.0	8.0	8.0	8.0	8.0	8.0	8.0	15.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	3.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	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: P248973

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8
2.5°	8093.8	8093.8	8089.9	8082.1	8066.2	8066.2	8062.2	8050.3	8042.5	8038.5	8038.5
5°	8054.3	8038.5	8022.7	7979.2	7979.2	7971.2	7947.7	7931.6	7923.9	7903.9	7896.2
7.5°	8018.7	7971.2	7943.5	7915.8	7880.4	7864.4	7836.7	7824.8	7797.1	7777.5	7765.6
10°	7931.6	7900.0	7864.4	7821.0	7793.3	7761.7	7730.0	7706.3	7670.7	7650.8	7635.0
12.5°	7872.4	7824.8	7793.3	7745.7	7698.4	7670.7	7627.2	7599.5	7563.8	7524.3	7500.5
15°	7817.1	7765.6	7722.1	7670.7	7619.2	7587.6	7536.1	7504.5	7453.1	7413.5	7385.8
17.5°	7734.0	7690.4	7643.0	7579.6	7532.2	7492.7	7437.2	7397.7	7350.2	7298.7	7271.0
20°	7646.9	7595.4	7548.0	7484.7	7437.2	7389.7	7334.4	7290.9	7235.4	7188.0	7156.5
22.5°	7532.2	7472.8	7433.2	7369.9	7314.5	7263.3	7211.8	7160.4	7108.9	7069.4	7033.6
25°	7366.0	7302.6	7259.1	7207.7	7156.5	7116.9	7053.6	7021.9	6970.5	6934.8	6899.2
27.5°	7128.6	7081.2	7041.7	6990.2	6946.7	6915.1	6867.6	6836.0	6792.4	6760.8	6733.1
30°	6780.6	6741.0	6705.4	6653.9	6622.3	6594.6	6551.0	6523.3	6491.7	6456.1	6448.3
32.5°	6313.8	6282.0	6246.5	6210.9	6187.1	6171.3	6135.7	6119.9	6088.3	6068.4	6048.7
35°	5609.5	5581.8	5562.2	5546.4	5538.4	5542.3	5534.5	5550.3	5558.0	5554.2	5558.0
37.5°	4687.9	4672.0	4680.0	4691.8	4731.4	4782.9	4830.3	4901.3	4948.9	4996.5	5039.9
40°	3659.3	3671.2	3702.8	3774.0	3876.9	3991.7	4098.5	4233.0	4367.4	4462.4	4549.4
42.5°	2761.2	2796.9	2875.9	2978.8	3133.2	3303.1	3469.5	3667.1	3829.4	3987.6	4098.5
45°	2076.9	2124.3	2227.2	2369.7	2539.6	2737.5	2947.2	3168.7	3362.7	3524.8	3647.4
47.5°	1618.1	1661.5	1764.5	1914.8	2124.3	2330.1	2547.7	2777.1	2978.8	3137.1	3243.9
50°	1277.7	1333.1	1424.1	1582.4	1792.1	2009.6	2235.2	2460.6	2650.6	2785.0	2880.0
52.5°	1004.9	1056.3	1143.2	1309.4	1523.1	1740.7	1950.2	2171.8	2338.0	2468.6	2531.9
55°	779.3	826.8	917.8	1056.3	1258.0	1471.6	1681.3	1871.3	2025.4	2120.4	2179.8
57.5°	593.3	629.0	692.3	830.8	1012.8	1210.5	1388.6	1578.5	1697.2	1764.5	1803.8
60°	451.1	478.8	545.9	652.8	818.9	989.1	1139.4	1281.8	1376.7	1432.1	1471.6
62.5°	340.1	371.9	419.3	510.3	636.8	775.4	902.0	1008.8	1087.9	1123.6	1151.3
65°	233.4	257.2	292.8	363.9	470.7	569.6	668.6	747.7	799.2	838.7	854.5
67.5°	174.1	189.9	209.7	265.1	340.1	419.3	486.5	541.9	597.4	613.2	640.9
70°	130.6	142.5	162.2	201.8	245.3	300.5	356.1	387.8	427.2	454.9	463.0
72.5°	83.1	87.0	106.8	130.6	166.1	201.8	237.4	265.1	288.9	304.7	312.4
75°	47.5	71.2	71.2	94.9	118.7	134.5	158.3	178.0	189.9	201.8	201.8
77.5°	31.6	43.5	47.5	59.3	71.2	91.0	110.8	122.6	134.5	138.4	138.4
80°	27.7	31.6	31.6	43.5	51.5	67.3	79.1	83.1	91.0	94.9	102.9
82.5°	11.9	15.8	19.7	31.6	35.6	35.6	47.5	51.5	59.3	63.3	63.3
85°	3.9	8.0	8.0	11.9	19.7	23.8	27.7	31.6	35.6	35.6	39.6
87.5°	3.9	3.9	0.0	3.9	8.0	8.0	15.8	15.8	15.8	23.8	23.8
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: P248973

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8	8101.8
2.5°	8030.6	8034.5	8018.7	8014.9	8006.9	8010.8	8018.7
5°	7884.3	7888.1	7872.4	7856.6	7856.6	7852.5	7856.6
7.5°	7745.7	7749.8	7726.0	7718.1	7702.3	7706.3	7706.3
10°	7607.3	7607.3	7571.8	7567.8	7555.9	7552.0	7552.0
12.5°	7472.8	7460.9	7433.2	7417.4	7425.4	7401.6	7401.6
15°	7354.1	7334.4	7298.7	7286.8	7267.1	7259.1	7259.1
17.5°	7231.5	7215.7	7184.2	7160.4	7136.5	7132.7	7136.5
20°	7112.7	7096.9	7057.5	7041.7	7021.9	7021.9	7014.0
22.5°	6994.0	6978.3	6942.8	6930.9	6903.2	6903.2	6907.2
25°	6871.5	6859.6	6820.1	6812.2	6808.3	6792.4	6800.3
27.5°	6705.4	6697.4	6665.8	6653.9	6638.1	6634.2	6642.0
30°	6400.7	6388.8	6365.3	6353.4	6325.7	6329.6	6337.3
32.5°	6021.0	6005.2	5973.5	5961.6	5937.9	5930.0	5933.9
35°	5546.4	5534.5	5506.8	5506.8	5483.0	5475.1	5483.0
37.5°	5063.7	5075.4	5063.7	5075.4	5063.7	5059.6	5063.7
40°	4608.8	4652.3	4660.1	4703.7	4687.9	4711.6	4707.6
42.5°	4173.5	4244.7	4272.6	4308.0	4300.2	4316.0	4327.8
45°	3734.4	3793.8	3821.5	3845.3	3849.2	3857.1	3861.1
47.5°	3318.9	3366.6	3370.4	3398.1	3394.2	3394.2	3406.0
50°	2931.4	2963.0	2970.9	2990.7	2974.9	2967.0	2970.9
52.5°	2571.5	2603.0	2595.0	2603.0	2583.3	2575.4	2579.2
55°	2203.4	2219.2	2219.2	2219.2	2195.6	2195.6	2195.6
57.5°	1827.6	1831.7	1823.8	1827.6	1823.8	1800.0	1796.1
60°	1483.5	1483.5	1479.5	1483.5	1471.6	1459.8	1459.8
62.5°	1159.0	1167.0	1182.8	1167.0	1159.0	1167.0	1155.1
65°	866.4	882.2	878.2	886.2	882.2	882.2	874.3
67.5°	652.8	656.7	660.6	664.6	664.6	664.6	664.6
70°	478.8	490.7	486.5	486.5	486.5	486.5	510.3
72.5°	320.5	336.3	332.4	340.1	340.1	348.2	340.1
75°	217.6	233.4	225.5	237.4	233.4	225.5	245.3
77.5°	146.4	154.4	158.3	162.2	158.3	154.4	158.3
80°	102.9	110.8	106.8	110.8	110.8	110.8	114.8
82.5°	63.3	75.2	71.2	75.2	71.2	75.2	75.2
85°	43.5	47.5	39.6	47.5	43.5	43.5	51.5
87.5°	27.7	23.8	23.8	27.7	23.8	27.7	23.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)