

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: P248864

Luminaire Tested: **LD8B175D010 ER8B175930 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248864
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: LD8B175D010 ER8B175930 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14022.6 lumens
Efficiency: N/A
Efficacy: 79.1 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

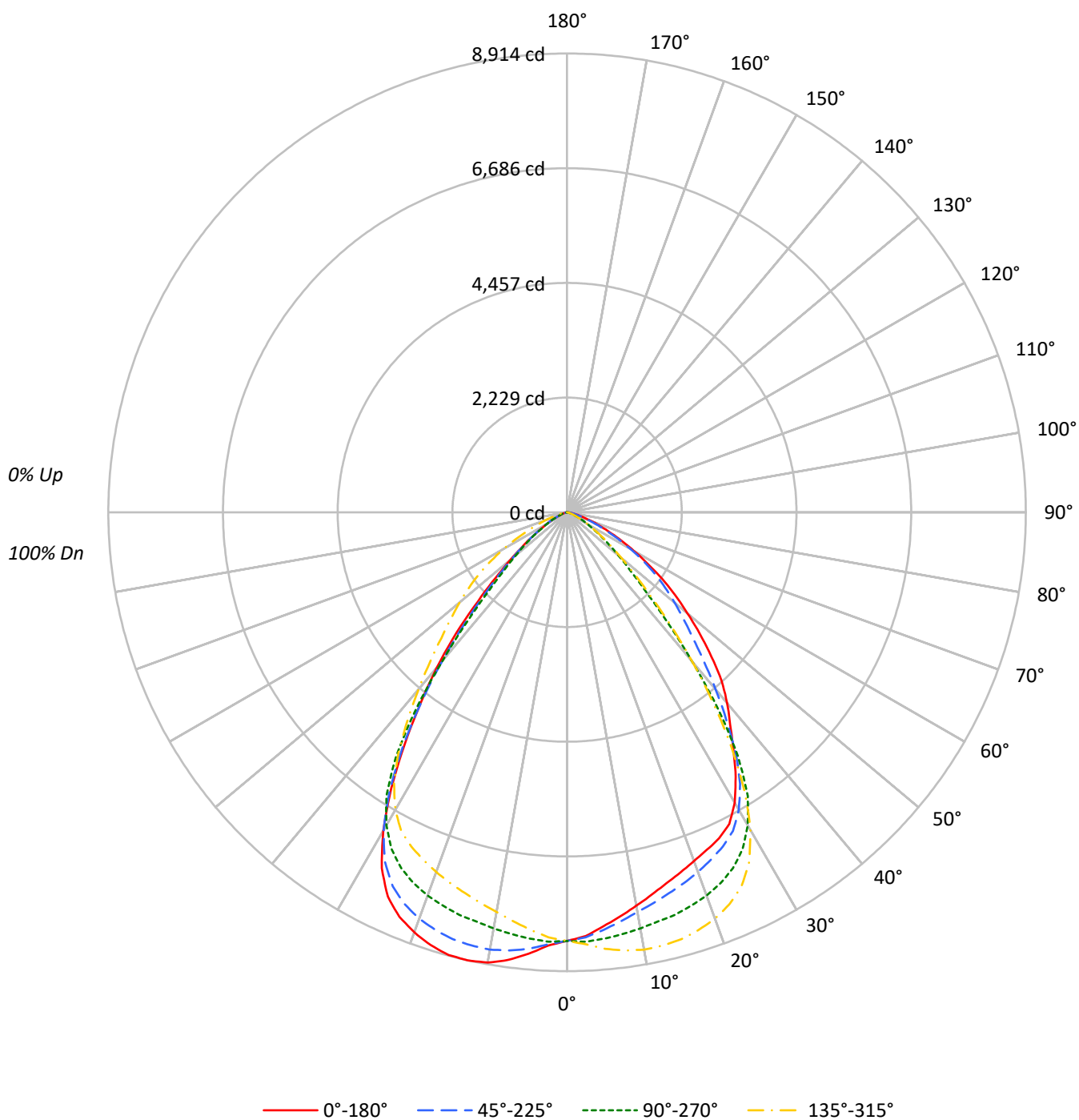
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39

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°	792.4	5.7
10°-20°	2294.5	16.4
20°-30°	3474.4	24.8
30°-40°	3482.2	24.8
40°-50°	2186.6	15.6
50°-60°	1165.3	8.3
60°-70°	479.2	3.4
70°-80°	126.6	0.9
80°-90°	21.4	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°	6561.3	46.8
0°-40°	10043.5	71.6
0°-60°	13395.4	95.5
0°-90°	14022.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14022.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8325	8325	8325	8325	8325	
5°	8073	8313	8609	8313	8073	761
15°	7459	8097	8902	8097	7459	2110
25°	6987	7626	8240	7626	6987	3205
35°	5634	5792	5496	5792	5634	3530
45°	3967	2122	2455	2122	3967	3051
55°	2256	784	829	784	2256	2011
65°	898	240	220	240	898	932
75°	252	49	41	49	252	286
85°	53	0	4	0	53	58
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°	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8
2.5°	8239.5	8231.3	8227.2	8235.4	8239.5	8255.7	8251.7	8259.6	8259.6	8263.9	8271.9
5°	8072.8	8068.6	8072.8	8072.8	8089.0	8105.3	8101.2	8113.5	8121.5	8141.9	8149.9
7.5°	7918.4	7918.4	7914.1	7930.4	7938.6	7963.0	7958.9	7979.3	7991.5	8011.7	8040.1
10°	7759.8	7759.8	7763.8	7775.9	7780.2	7816.6	7816.6	7845.1	7861.3	7881.8	7918.4
12.5°	7605.3	7605.3	7629.8	7621.6	7637.8	7666.2	7678.4	7706.9	7731.3	7772.0	7808.7
15°	7458.9	7458.9	7467.1	7487.4	7499.6	7536.3	7556.4	7589.1	7617.5	7658.2	7711.0
17.5°	7332.9	7328.9	7332.9	7357.3	7381.8	7414.3	7430.4	7471.1	7499.6	7552.4	7601.3
20°	7206.9	7215.2	7215.2	7235.4	7251.6	7292.3	7308.5	7353.3	7385.8	7434.5	7491.5
22.5°	7097.2	7093.2	7093.2	7121.6	7133.8	7170.4	7186.5	7227.2	7263.9	7304.5	7357.3
25°	6987.4	6979.2	6995.6	6999.6	7007.7	7048.4	7060.5	7089.0	7125.6	7162.3	7215.2
27.5°	6824.9	6816.8	6820.8	6837.0	6849.2	6881.7	6889.9	6918.4	6946.8	6979.2	7024.1
30°	6511.8	6503.7	6499.8	6528.1	6540.4	6564.7	6576.9	6625.7	6633.7	6670.4	6702.8
32.5°	6097.2	6093.2	6101.4	6125.6	6137.8	6170.4	6186.7	6215.2	6235.3	6255.7	6288.2
35°	5633.9	5625.7	5633.9	5658.4	5658.4	5686.7	5698.9	5711.0	5707.0	5711.0	5703.0
37.5°	5203.0	5198.9	5203.0	5215.1	5203.0	5215.1	5203.0	5178.7	5134.0	5085.1	5036.2
40°	4837.1	4841.2	4816.9	4833.2	4788.4	4780.3	4735.6	4674.6	4585.2	4487.6	4349.5
42.5°	4447.0	4434.8	4418.5	4426.6	4390.1	4361.5	4288.4	4211.3	4097.3	3934.8	3768.0
45°	3967.3	3963.3	3955.1	3951.1	3926.6	3898.2	3837.2	3747.8	3621.8	3455.1	3255.8
47.5°	3499.9	3487.7	3487.7	3491.6	3463.2	3459.2	3410.3	3333.2	3223.4	3060.8	2853.5
50°	3052.6	3048.6	3056.7	3073.0	3052.6	3044.5	3012.1	2959.2	2861.7	2723.5	2528.3
52.5°	2650.3	2646.2	2654.4	2674.6	2666.4	2674.6	2642.2	2601.5	2536.5	2402.3	2231.6
55°	2256.0	2256.0	2256.0	2280.3	2280.3	2280.3	2264.1	2239.8	2178.8	2081.1	1922.7
57.5°	1845.5	1849.4	1873.9	1877.9	1873.9	1882.0	1877.9	1853.5	1813.0	1743.9	1622.0
60°	1499.9	1499.9	1512.1	1524.3	1520.2	1524.3	1524.3	1512.1	1471.5	1414.6	1317.1
62.5°	1186.9	1199.1	1191.0	1199.1	1215.4	1199.1	1191.0	1182.9	1154.4	1117.9	1036.5
65°	898.3	906.4	906.4	910.5	902.3	906.4	890.3	878.1	861.8	821.1	768.3
67.5°	682.9	682.9	682.9	682.9	678.8	674.7	670.8	658.6	630.1	613.9	556.8
70°	524.4	500.0	500.0	500.0	500.0	504.1	491.9	475.6	467.5	439.0	398.4
72.5°	349.5	357.7	349.5	349.5	341.5	345.5	329.2	321.1	313.1	296.8	272.4
75°	252.0	231.7	239.8	243.9	231.7	239.8	223.5	207.3	207.3	195.1	182.8
77.5°	162.7	158.6	162.7	166.7	162.7	158.6	150.4	142.3	142.3	138.2	126.0
80°	117.9	113.8	113.8	113.8	109.7	113.8	105.7	105.7	97.5	93.5	85.3
82.5°	77.3	77.3	73.1	77.3	73.1	77.3	65.1	65.1	65.1	60.9	52.9
85°	52.9	44.7	44.7	48.9	40.7	48.9	44.7	40.7	36.7	36.7	32.5
87.5°	24.4	28.5	24.4	28.5	24.4	24.4	28.5	24.4	24.4	16.3	16.3
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°	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8
2.5°	8284.1	8288.1	8288.1	8304.5	8312.6	8316.6	8316.6	8349.2	8337.0	8345.2	8353.2
5°	8166.4	8190.6	8198.8	8198.8	8243.5	8259.6	8275.9	8312.6	8316.6	8341.0	8369.4
7.5°	8052.4	8080.8	8097.2	8133.8	8162.1	8190.6	8239.5	8263.9	8288.1	8320.7	8357.3
10°	7942.6	7975.2	8007.8	8036.1	8080.8	8117.5	8149.9	8206.8	8235.4	8280.0	8328.8
12.5°	7837.0	7881.8	7910.1	7958.9	8007.8	8040.1	8089.0	8141.9	8186.6	8231.3	8288.1
15°	7743.5	7796.4	7828.8	7881.8	7934.6	7979.3	8032.2	8097.2	8129.7	8182.5	8235.4
17.5°	7641.7	7698.8	7739.5	7788.1	7853.3	7901.9	7946.8	8011.7	8052.4	8109.3	8170.3
20°	7536.3	7593.1	7641.7	7690.6	7755.8	7804.4	7857.3	7922.3	7967.1	8023.9	8072.8
22.5°	7410.3	7463.1	7515.9	7572.7	7637.8	7678.4	7739.5	7796.4	7845.1	7898.0	7946.8
25°	7247.6	7312.7	7353.3	7406.1	7458.9	7503.6	7568.7	7625.6	7666.2	7715.1	7759.8
27.5°	7056.6	7105.3	7137.9	7182.6	7235.4	7276.1	7324.7	7381.8	7422.5	7467.1	7499.6
30°	6731.3	6776.1	6804.6	6837.0	6889.9	6926.5	6967.2	7019.9	7048.4	7081.0	7109.4
32.5°	6304.5	6341.2	6357.3	6381.7	6418.4	6454.9	6487.6	6532.2	6544.4	6564.7	6564.7
35°	5686.7	5694.8	5690.8	5698.9	5715.2	5735.5	5763.8	5792.3	5808.6	5808.6	5796.5
37.5°	4963.1	4914.5	4861.6	4821.0	4808.8	4800.5	4816.9	4828.9	4845.3	4853.4	4833.2
40°	4211.3	4101.5	3983.5	3877.8	3804.7	3772.2	3759.9	3768.0	3768.0	3796.5	3796.5
42.5°	3564.9	3394.1	3219.4	3060.8	2955.1	2873.9	2837.3	2837.3	2841.3	2861.7	2873.9
45°	3028.4	2812.8	2609.6	2434.9	2288.5	2182.7	2134.0	2121.8	2117.8	2125.9	2154.3
47.5°	2617.8	2394.2	2182.7	1967.5	1813.0	1707.3	1662.6	1646.2	1629.9	1646.2	1650.3
50°	2296.7	2065.0	1841.5	1625.9	1463.4	1369.7	1312.9	1288.5	1284.4	1284.4	1292.6
52.5°	2003.9	1788.6	1565.0	1345.5	1174.7	1085.4	1032.4	1020.2	1004.1	1020.2	1020.2
55°	1727.5	1512.1	1292.6	1085.4	943.0	849.6	800.7	784.5	776.3	788.5	788.5
57.5°	1426.8	1243.7	1040.6	853.6	711.4	646.4	609.7	589.4	585.3	593.5	585.3
60°	1170.7	1016.3	841.4	670.8	560.9	491.9	463.4	455.2	447.1	455.2	455.2
62.5°	926.7	796.7	654.3	524.4	430.8	382.1	349.5	349.5	345.5	345.5	349.5
65°	686.9	585.3	483.7	374.0	300.9	264.2	239.8	239.8	235.7	239.8	235.7
67.5°	500.0	430.8	349.5	272.4	215.5	195.1	178.9	166.7	174.9	166.7	162.7
70°	365.9	308.8	252.0	207.3	166.7	146.4	134.2	130.0	122.0	122.0	122.0
72.5°	243.9	207.3	170.6	134.2	109.7	89.3	85.3	77.3	69.1	73.1	81.3
75°	162.7	138.2	122.0	97.5	73.1	73.1	48.9	48.9	40.7	48.9	36.7
77.5°	113.8	93.5	73.1	60.9	48.9	44.7	32.5	32.5	28.5	28.5	28.5
80°	81.3	69.1	52.9	44.7	32.5	32.5	28.5	24.4	20.3	20.3	24.4
82.5°	48.9	36.7	36.7	32.5	20.3	16.3	12.2	16.3	8.2	8.2	8.2
85°	28.5	24.4	20.3	12.2	8.2	8.2	4.0	0.0	4.0	4.0	0.0
87.5°	16.3	8.2	8.2	4.0	0.0	4.0	4.0	0.0	0.0	0.0	8.2
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°	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8
2.5°	8373.6	8369.4	8377.7	8377.7	8402.1	8397.9	8410.1	8410.1	8402.1	8406.0	8422.3
5°	8402.1	8414.2	8438.6	8459.0	8495.4	8511.9	8532.0	8552.4	8556.5	8568.7	8580.9
7.5°	8402.1	8442.7	8471.2	8507.6	8556.5	8585.0	8629.6	8666.2	8682.5	8702.8	8727.1
10°	8385.6	8426.3	8479.2	8519.8	8580.9	8625.6	8670.3	8727.1	8751.5	8784.0	8816.7
12.5°	8353.2	8397.9	8454.8	8507.6	8576.8	8617.4	8674.3	8727.1	8763.8	8808.5	8845.1
15°	8304.5	8357.3	8410.1	8463.0	8536.1	8585.0	8637.8	8698.7	8735.4	8784.0	8816.7
17.5°	8227.2	8284.1	8333.0	8381.6	8450.8	8507.6	8556.5	8613.4	8650.0	8690.7	8735.4
20°	8133.8	8186.6	8239.5	8280.0	8349.2	8397.9	8450.8	8503.6	8532.0	8540.2	8609.4
22.5°	8015.9	8052.4	8093.1	8158.1	8198.8	8243.5	8292.3	8341.0	8369.4	8414.2	8438.6
25°	7820.7	7857.3	7901.9	7930.4	7979.3	8015.9	8064.6	8117.5	8133.8	8166.4	8190.6
27.5°	7548.5	7568.7	7589.1	7613.4	7641.7	7662.3	7690.6	7715.1	7731.3	7747.6	7763.8
30°	7117.5	7117.5	7117.5	7101.2	7113.4	7125.6	7129.7	7125.6	7125.6	7121.6	7121.6
32.5°	6548.4	6515.9	6479.3	6446.9	6434.7	6418.4	6410.2	6398.0	6377.7	6365.6	6369.5
35°	5780.1	5707.0	5662.3	5621.7	5589.2	5564.8	5552.5	5540.3	5536.4	5520.1	5503.8
37.5°	4821.0	4768.1	4735.6	4711.1	4682.8	4658.3	4662.4	4666.5	4678.5	4670.5	4674.6
40°	3804.7	3792.5	3804.7	3776.2	3768.0	3776.2	3796.5	3825.1	3841.3	3857.6	3885.9
42.5°	2894.2	2914.4	2943.0	2943.0	2955.1	2971.4	2995.8	3040.6	3064.8	3093.3	3125.9
45°	2178.8	2203.2	2239.8	2251.9	2260.0	2280.3	2308.9	2345.4	2361.6	2386.0	2414.5
47.5°	1678.8	1695.1	1715.2	1735.6	1755.9	1764.1	1792.6	1792.6	1813.0	1829.2	1837.2
50°	1308.9	1325.1	1341.4	1353.6	1361.8	1374.0	1382.0	1394.2	1398.2	1406.4	1410.4
52.5°	1024.3	1044.7	1044.7	1052.7	1065.0	1077.2	1073.1	1077.2	1081.2	1081.2	1093.4
55°	800.7	800.7	812.9	812.9	821.1	817.0	821.1	821.1	821.1	821.1	825.2
57.5°	597.5	601.6	613.9	605.7	601.6	609.7	601.6	609.7	605.7	613.9	601.6
60°	459.3	459.3	463.4	463.4	467.5	467.5	467.5	463.4	463.4	459.3	459.3
62.5°	345.5	349.5	353.7	349.5	349.5	349.5	345.5	345.5	341.5	337.3	337.3
65°	231.7	227.7	235.7	227.7	231.7	231.7	227.7	231.7	219.5	223.5	219.5
67.5°	166.7	162.7	158.6	162.7	158.6	154.5	154.5	158.6	162.7	150.4	150.4
70°	109.7	113.8	109.7	113.8	117.9	117.9	113.8	109.7	113.8	105.7	109.7
72.5°	69.1	69.1	69.1	69.1	69.1	73.1	73.1	73.1	65.1	65.1	60.9
75°	32.5	44.7	36.7	32.5	44.7	44.7	40.7	40.7	36.7	36.7	36.7
77.5°	32.5	24.4	24.4	24.4	24.4	24.4	24.4	24.4	20.3	24.4	20.3
80°	16.3	16.3	16.3	12.2	16.3	16.3	20.3	16.3	16.3	12.2	20.3
82.5°	8.2	8.2	8.2	0.0	4.0	8.2	8.2	4.0	8.2	8.2	4.0
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: P248864

CATALOG NUMBER: LD8B175D010 ER8B175930 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8
2.5°	8418.3	8414.2	8418.3	8422.3	8418.3	8414.2	8418.3	8422.3	8406.0	8402.1	8410.1
5°	8597.2	8597.2	8605.1	8609.4	8605.1	8597.2	8597.2	8580.9	8568.7	8556.5	8552.4
7.5°	8751.5	8759.8	8767.8	8771.8	8767.8	8759.8	8751.5	8727.1	8702.8	8682.5	8666.2
10°	8845.1	8857.4	8873.5	8881.6	8873.5	8857.4	8845.1	8816.7	8784.0	8751.5	8727.1
12.5°	8885.7	8897.9	8918.2	8914.2	8918.2	8897.9	8885.7	8845.1	8808.5	8763.8	8727.1
15°	8857.4	8873.5	8893.8	8902.0	8893.8	8873.5	8857.4	8816.7	8784.0	8735.4	8698.7
17.5°	8767.8	8792.2	8804.4	8816.7	8804.4	8792.2	8767.8	8735.4	8690.7	8650.0	8613.4
20°	8645.8	8662.2	8678.4	8682.5	8678.4	8662.2	8645.8	8609.4	8540.2	8532.0	8503.6
22.5°	8471.2	8483.4	8519.8	8507.6	8519.8	8483.4	8471.2	8438.6	8414.2	8369.4	8341.0
25°	8219.1	8231.3	8235.4	8239.5	8235.4	8231.3	8219.1	8190.6	8166.4	8133.8	8117.5
27.5°	7784.2	7784.2	7792.2	7796.4	7792.2	7784.2	7784.2	7763.8	7747.6	7731.3	7715.1
30°	7125.6	7125.6	7125.6	7146.0	7125.6	7125.6	7125.6	7121.6	7121.6	7125.6	7125.6
32.5°	6365.6	6357.3	6349.3	6357.3	6349.3	6357.3	6365.6	6369.5	6365.6	6377.7	6398.0
35°	5503.8	5499.7	5512.0	5495.7	5512.0	5499.7	5503.8	5503.8	5520.1	5536.4	5540.3
37.5°	4678.5	4670.5	4686.8	4670.5	4686.8	4670.5	4678.5	4674.6	4670.5	4678.5	4666.5
40°	3894.1	3902.2	3902.2	3934.8	3902.2	3902.2	3894.1	3885.9	3857.6	3841.3	3825.1
42.5°	3142.2	3166.5	3158.3	3182.7	3158.3	3166.5	3142.2	3125.9	3093.3	3064.8	3040.6
45°	2430.7	2447.1	2447.1	2455.1	2447.1	2447.1	2430.7	2414.5	2386.0	2361.6	2345.4
47.5°	1865.7	1865.7	1865.7	1869.8	1865.7	1865.7	1865.7	1837.2	1829.2	1813.0	1792.6
50°	1418.6	1422.7	1426.8	1430.8	1426.8	1422.7	1418.6	1410.4	1406.4	1398.2	1394.2
52.5°	1089.4	1093.4	1085.4	1093.4	1085.4	1093.4	1089.4	1093.4	1081.2	1081.2	1077.2
55°	825.2	821.1	825.2	829.2	825.2	821.1	825.2	825.2	821.1	821.1	821.1
57.5°	605.7	597.5	597.5	597.5	597.5	597.5	605.7	601.6	613.9	605.7	609.7
60°	451.2	455.2	455.2	459.3	455.2	455.2	451.2	459.3	459.3	463.4	463.4
62.5°	333.3	345.5	337.3	345.5	337.3	345.5	333.3	337.3	337.3	341.5	345.5
65°	215.5	215.5	215.5	219.5	215.5	215.5	215.5	219.5	223.5	219.5	231.7
67.5°	146.4	150.4	158.6	154.5	158.6	150.4	146.4	150.4	150.4	162.7	158.6
70°	117.9	105.7	105.7	117.9	105.7	105.7	117.9	109.7	105.7	113.8	109.7
72.5°	69.1	60.9	69.1	69.1	69.1	60.9	69.1	60.9	65.1	65.1	73.1
75°	36.7	32.5	28.5	40.7	28.5	32.5	36.7	36.7	36.7	36.7	40.7
77.5°	24.4	20.3	28.5	28.5	28.5	20.3	24.4	20.3	24.4	20.3	24.4
80°	12.2	16.3	12.2	20.3	12.2	16.3	12.2	20.3	12.2	16.3	16.3
82.5°	4.0	8.2	8.2	8.2	8.2	8.2	4.0	4.0	8.2	8.2	4.0
85°	0.0	8.2	4.0	4.0	4.0	8.2	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	0.0	0.0	4.0	0.0	0.0	4.0	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: P248864

CATALOG NUMBER: LD8B175D010 ER8B175930 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8
2.5°	8410.1	8397.9	8402.1	8377.7	8377.7	8369.4	8373.6	8353.2	8345.2	8337.0	8349.2
5°	8532.0	8511.9	8495.4	8459.0	8438.6	8414.2	8402.1	8369.4	8341.0	8316.6	8312.6
7.5°	8629.6	8585.0	8556.5	8507.6	8471.2	8442.7	8402.1	8357.3	8320.7	8288.1	8263.9
10°	8670.3	8625.6	8580.9	8519.8	8479.2	8426.3	8385.6	8328.8	8280.0	8235.4	8206.8
12.5°	8674.3	8617.4	8576.8	8507.6	8454.8	8397.9	8353.2	8288.1	8231.3	8186.6	8141.9
15°	8637.8	8585.0	8536.1	8463.0	8410.1	8357.3	8304.5	8235.4	8182.5	8129.7	8097.2
17.5°	8556.5	8507.6	8450.8	8381.6	8333.0	8284.1	8227.2	8170.3	8109.3	8052.4	8011.7
20°	8450.8	8397.9	8349.2	8280.0	8239.5	8186.6	8133.8	8072.8	8023.9	7967.1	7922.3
22.5°	8292.3	8243.5	8198.8	8158.1	8093.1	8052.4	8015.9	7946.8	7898.0	7845.1	7796.4
25°	8064.6	8015.9	7979.3	7930.4	7901.9	7857.3	7820.7	7759.8	7715.1	7666.2	7625.6
27.5°	7690.6	7662.3	7641.7	7613.4	7589.1	7568.7	7548.5	7499.6	7467.1	7422.5	7381.8
30°	7129.7	7125.6	7113.4	7101.2	7117.5	7117.5	7117.5	7109.4	7081.0	7048.4	7019.9
32.5°	6410.2	6418.4	6434.7	6446.9	6479.3	6515.9	6548.4	6564.7	6564.7	6544.4	6532.2
35°	5552.5	5564.8	5589.2	5621.7	5662.3	5707.0	5780.1	5796.5	5808.6	5808.6	5792.3
37.5°	4662.4	4658.3	4682.8	4711.1	4735.6	4768.1	4821.0	4833.2	4853.4	4845.3	4828.9
40°	3796.5	3776.2	3768.0	3776.2	3804.7	3792.5	3804.7	3796.5	3796.5	3768.0	3768.0
42.5°	2995.8	2971.4	2955.1	2943.0	2943.0	2914.4	2894.2	2873.9	2861.7	2841.3	2837.3
45°	2308.9	2280.3	2260.0	2251.9	2239.8	2203.2	2178.8	2154.3	2125.9	2117.8	2121.8
47.5°	1792.6	1764.1	1755.9	1735.6	1715.2	1695.1	1678.8	1650.3	1646.2	1629.9	1646.2
50°	1382.0	1374.0	1361.8	1353.6	1341.4	1325.1	1308.9	1292.6	1284.4	1284.4	1288.5
52.5°	1073.1	1077.2	1065.0	1052.7	1044.7	1044.7	1024.3	1020.2	1020.2	1004.1	1020.2
55°	821.1	817.0	821.1	812.9	812.9	800.7	800.7	788.5	788.5	776.3	784.5
57.5°	601.6	609.7	601.6	605.7	613.9	601.6	597.5	585.3	593.5	585.3	589.4
60°	467.5	467.5	467.5	463.4	463.4	459.3	459.3	455.2	455.2	447.1	455.2
62.5°	345.5	349.5	349.5	349.5	353.7	349.5	345.5	349.5	345.5	345.5	349.5
65°	227.7	231.7	231.7	227.7	235.7	227.7	231.7	235.7	239.8	235.7	239.8
67.5°	154.5	154.5	158.6	162.7	158.6	162.7	166.7	162.7	166.7	174.9	166.7
70°	113.8	117.9	117.9	113.8	109.7	113.8	109.7	122.0	122.0	122.0	130.0
72.5°	73.1	73.1	69.1	69.1	69.1	69.1	69.1	81.3	73.1	69.1	77.3
75°	40.7	44.7	44.7	32.5	36.7	44.7	32.5	36.7	48.9	40.7	48.9
77.5°	24.4	24.4	24.4	24.4	24.4	24.4	32.5	28.5	28.5	28.5	32.5
80°	20.3	16.3	16.3	12.2	16.3	16.3	16.3	24.4	20.3	20.3	24.4
82.5°	8.2	8.2	4.0	0.0	8.2	8.2	8.2	8.2	8.2	8.2	16.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	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: P248864

CATALOG NUMBER: LD8B175D010 ER8B175930 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8
2.5°	8316.6	8316.6	8312.6	8304.5	8288.1	8288.1	8284.1	8271.9	8263.9	8259.6	8259.6
5°	8275.9	8259.6	8243.5	8198.8	8198.8	8190.6	8166.4	8149.9	8141.9	8121.5	8113.5
7.5°	8239.5	8190.6	8162.1	8133.8	8097.2	8080.8	8052.4	8040.1	8011.7	7991.5	7979.3
10°	8149.9	8117.5	8080.8	8036.1	8007.8	7975.2	7942.6	7918.4	7881.8	7861.3	7845.1
12.5°	8089.0	8040.1	8007.8	7958.9	7910.1	7881.8	7837.0	7808.7	7772.0	7731.3	7706.9
15°	8032.2	7979.3	7934.6	7881.8	7828.8	7796.4	7743.5	7711.0	7658.2	7617.5	7589.1
17.5°	7946.8	7901.9	7853.3	7788.1	7739.5	7698.8	7641.7	7601.3	7552.4	7499.6	7471.1
20°	7857.3	7804.4	7755.8	7690.6	7641.7	7593.1	7536.3	7491.5	7434.5	7385.8	7353.3
22.5°	7739.5	7678.4	7637.8	7572.7	7515.9	7463.1	7410.3	7357.3	7304.5	7263.9	7227.2
25°	7568.7	7503.6	7458.9	7406.1	7353.3	7312.7	7247.6	7215.2	7162.3	7125.6	7089.0
27.5°	7324.7	7276.1	7235.4	7182.6	7137.9	7105.3	7056.6	7024.1	6979.2	6946.8	6918.4
30°	6967.2	6926.5	6889.9	6837.0	6804.6	6776.1	6731.3	6702.8	6670.4	6633.7	6625.7
32.5°	6487.6	6454.9	6418.4	6381.7	6357.3	6341.2	6304.5	6288.2	6255.7	6235.3	6215.2
35°	5763.8	5735.5	5715.2	5698.9	5690.8	5694.8	5686.7	5703.0	5711.0	5707.0	5711.0
37.5°	4816.9	4800.5	4808.8	4821.0	4861.6	4914.5	4963.1	5036.2	5085.1	5134.0	5178.7
40°	3759.9	3772.2	3804.7	3877.8	3983.5	4101.5	4211.3	4349.5	4487.6	4585.2	4674.6
42.5°	2837.3	2873.9	2955.1	3060.8	3219.4	3394.1	3564.9	3768.0	3934.8	4097.3	4211.3
45°	2134.0	2182.7	2288.5	2434.9	2609.6	2812.8	3028.4	3255.8	3455.1	3621.8	3747.8
47.5°	1662.6	1707.3	1813.0	1967.5	2182.7	2394.2	2617.8	2853.5	3060.8	3223.4	3333.2
50°	1312.9	1369.7	1463.4	1625.9	1841.5	2065.0	2296.7	2528.3	2723.5	2861.7	2959.2
52.5°	1032.4	1085.4	1174.7	1345.5	1565.0	1788.6	2003.9	2231.6	2402.3	2536.5	2601.5
55°	800.7	849.6	943.0	1085.4	1292.6	1512.1	1727.5	1922.7	2081.1	2178.8	2239.8
57.5°	609.7	646.4	711.4	853.6	1040.6	1243.7	1426.8	1622.0	1743.9	1813.0	1853.5
60°	463.4	491.9	560.9	670.8	841.4	1016.3	1170.7	1317.1	1414.6	1471.5	1512.1
62.5°	349.5	382.1	430.8	524.4	654.3	796.7	926.7	1036.5	1117.9	1154.4	1182.9
65°	239.8	264.2	300.9	374.0	483.7	585.3	686.9	768.3	821.1	861.8	878.1
67.5°	178.9	195.1	215.5	272.4	349.5	430.8	500.0	556.8	613.9	630.1	658.6
70°	134.2	146.4	166.7	207.3	252.0	308.8	365.9	398.4	439.0	467.5	475.6
72.5°	85.3	89.3	109.7	134.2	170.6	207.3	243.9	272.4	296.8	313.1	321.1
75°	48.9	73.1	73.1	97.5	122.0	138.2	162.7	182.8	195.1	207.3	207.3
77.5°	32.5	44.7	48.9	60.9	73.1	93.5	113.8	126.0	138.2	142.3	142.3
80°	28.5	32.5	32.5	44.7	52.9	69.1	81.3	85.3	93.5	97.5	105.7
82.5°	12.2	16.3	20.3	32.5	36.7	36.7	48.9	52.9	60.9	65.1	65.1
85°	4.0	8.2	8.2	12.2	20.3	24.4	28.5	32.5	36.7	36.7	40.7
87.5°	4.0	4.0	0.0	4.0	8.2	8.2	16.3	16.3	16.3	24.4	24.4
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: P248864

CATALOG NUMBER: LD8B175D010 ER8B175930 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8	8324.8
2.5°	8251.7	8255.7	8239.5	8235.4	8227.2	8231.3	8239.5
5°	8101.2	8105.3	8089.0	8072.8	8072.8	8068.6	8072.8
7.5°	7958.9	7963.0	7938.6	7930.4	7914.1	7918.4	7918.4
10°	7816.6	7816.6	7780.2	7775.9	7763.8	7759.8	7759.8
12.5°	7678.4	7666.2	7637.8	7621.6	7629.8	7605.3	7605.3
15°	7556.4	7536.3	7499.6	7487.4	7467.1	7458.9	7458.9
17.5°	7430.4	7414.3	7381.8	7357.3	7332.9	7328.9	7332.9
20°	7308.5	7292.3	7251.6	7235.4	7215.2	7215.2	7206.9
22.5°	7186.5	7170.4	7133.8	7121.6	7093.2	7093.2	7097.2
25°	7060.5	7048.4	7007.7	6999.6	6995.6	6979.2	6987.4
27.5°	6889.9	6881.7	6849.2	6837.0	6820.8	6816.8	6824.9
30°	6576.9	6564.7	6540.4	6528.1	6499.8	6503.7	6511.8
32.5°	6186.7	6170.4	6137.8	6125.6	6101.4	6093.2	6097.2
35°	5698.9	5686.7	5658.4	5658.4	5633.9	5625.7	5633.9
37.5°	5203.0	5215.1	5203.0	5215.1	5203.0	5198.9	5203.0
40°	4735.6	4780.3	4788.4	4833.2	4816.9	4841.2	4837.1
42.5°	4288.4	4361.5	4390.1	4426.6	4418.5	4434.8	4447.0
45°	3837.2	3898.2	3926.6	3951.1	3955.1	3963.3	3967.3
47.5°	3410.3	3459.2	3463.2	3491.6	3487.7	3487.7	3499.9
50°	3012.1	3044.5	3052.6	3073.0	3056.7	3048.6	3052.6
52.5°	2642.2	2674.6	2666.4	2674.6	2654.4	2646.2	2650.3
55°	2264.1	2280.3	2280.3	2280.3	2256.0	2256.0	2256.0
57.5°	1877.9	1882.0	1873.9	1877.9	1873.9	1849.4	1845.5
60°	1524.3	1524.3	1520.2	1524.3	1512.1	1499.9	1499.9
62.5°	1191.0	1199.1	1215.4	1199.1	1191.0	1199.1	1186.9
65°	890.3	906.4	902.3	910.5	906.4	906.4	898.3
67.5°	670.8	674.7	678.8	682.9	682.9	682.9	682.9
70°	491.9	504.1	500.0	500.0	500.0	500.0	524.4
72.5°	329.2	345.5	341.5	349.5	349.5	357.7	349.5
75°	223.5	239.8	231.7	243.9	239.8	231.7	252.0
77.5°	150.4	158.6	162.7	166.7	162.7	158.6	162.7
80°	105.7	113.8	109.7	113.8	113.8	113.8	117.9
82.5°	65.1	77.3	73.1	77.3	73.1	77.3	77.3
85°	44.7	48.9	40.7	48.9	44.7	44.7	52.9
87.5°	28.5	24.4	24.4	28.5	24.4	28.5	24.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)