

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: P248882

Luminaire Tested: **LD8B175D010 ER8B175830 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248882
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 ER8B175830 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13482.0 lumens
Efficiency: N/A
Efficacy: 76.1 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

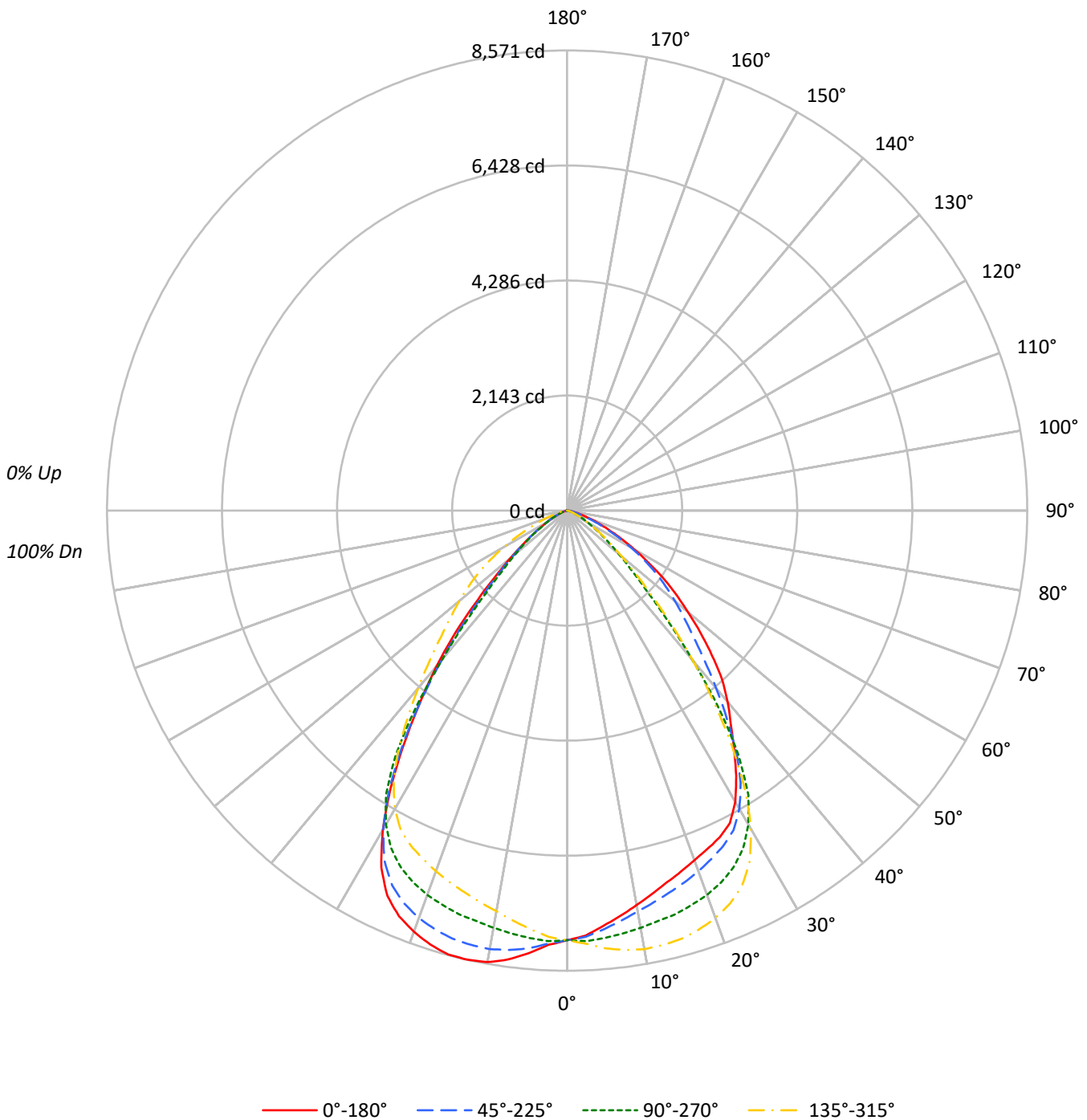
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	246808	246808	246808	246808
5°	240253	247388	256223	247388
10°	233606	247064	267380	247064
15°	228941	248532	273232	248532
20°	227381	249954	273936	249954
25°	228577	249451	269532	249451
30°	222923	240320	244639	240320
35°	203907	209640	198904	209640
40°	187209	145832	152285	145832
45°	166343	88963	102939	88963
50°	140795	59429	65996	59429
55°	116614	40552	42859	40552
60°	88938	26994	27235	26994
65°	63020	16818	15403	16818
70°	45449	11270	10224	11270
75°	28868	5600	4658	5600
80°	20137	4173	3463	4173
85°	17973	0	1380	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	761.8	5.7
10°-20°	2206.1	16.4
20°-30°	3340.5	24.8
30°-40°	3348.0	24.8
40°-50°	2102.4	15.6
50°-60°	1120.3	8.3
60°-70°	460.7	3.4
70°-80°	121.7	0.9
80°-90°	20.6	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°	6308.4	46.8
0°-40°	9656.3	71.6
0°-60°	12879.0	95.5
0°-90°	13482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13482.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8004	8004	8004	8004	8004	
5°	7762	7992	8278	7992	7762	732
15°	7171	7785	8559	7785	7171	2028
25°	6718	7332	7922	7332	6718	3081
35°	5417	5569	5284	5569	5417	3394
45°	3814	2040	2360	2040	3814	2934
55°	2169	754	797	754	2169	1934
65°	864	230	211	230	864	896
75°	242	47	39	47	242	274
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°	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8
2.5°	7921.8	7913.9	7910.1	7917.9	7921.8	7937.4	7933.5	7941.3	7941.3	7945.3	7953.0
5°	7761.6	7757.6	7761.6	7761.6	7777.2	7792.8	7788.9	7800.7	7808.4	7828.0	7835.7
7.5°	7613.1	7613.1	7609.1	7624.7	7632.6	7656.1	7652.0	7671.7	7683.4	7702.9	7730.2
10°	7460.6	7460.6	7464.5	7476.2	7480.2	7515.3	7515.3	7542.6	7558.2	7577.9	7613.1
12.5°	7312.1	7312.1	7335.6	7327.7	7343.3	7370.7	7382.4	7409.8	7433.3	7472.3	7507.6
15°	7171.4	7171.4	7179.3	7198.7	7210.5	7245.7	7265.2	7296.5	7323.9	7363.0	7413.8
17.5°	7050.2	7046.4	7050.2	7073.7	7097.2	7128.4	7144.0	7183.1	7210.5	7261.3	7308.3
20°	6929.1	6937.0	6937.0	6956.5	6972.1	7011.2	7026.8	7069.9	7101.1	7147.9	7202.7
22.5°	6823.6	6819.7	6819.7	6847.1	6858.8	6893.9	6909.5	6948.6	6983.8	7022.9	7073.7
25°	6718.1	6710.2	6726.0	6729.8	6737.5	6776.6	6788.4	6815.7	6850.9	6886.2	6937.0
27.5°	6561.7	6554.0	6557.9	6573.5	6585.2	6616.4	6624.3	6651.6	6679.0	6710.2	6753.3
30°	6260.7	6253.0	6249.2	6276.5	6288.2	6311.6	6323.3	6370.3	6378.0	6413.2	6444.4
32.5°	5862.1	5858.3	5866.1	5889.5	5901.2	5932.6	5948.2	5975.5	5995.0	6014.6	6045.8
35°	5416.7	5408.8	5416.7	5440.2	5440.2	5467.5	5479.3	5490.9	5487.0	5490.9	5483.1
37.5°	5002.5	4998.5	5002.5	5014.1	5002.5	5014.1	5002.5	4979.0	4936.0	4889.1	4842.1
40°	4650.7	4654.5	4631.2	4646.8	4603.7	4596.0	4553.0	4494.3	4408.4	4314.6	4181.8
42.5°	4275.5	4263.8	4248.2	4255.9	4220.9	4193.3	4123.0	4048.9	3939.3	3783.1	3622.8
45°	3814.4	3810.5	3802.6	3798.7	3775.3	3747.9	3689.2	3603.3	3482.2	3322.0	3130.4
47.5°	3364.9	3353.2	3353.2	3357.0	3329.7	3325.8	3278.8	3204.7	3099.2	2942.8	2743.5
50°	2934.9	2931.1	2938.9	2954.5	2934.9	2927.2	2896.0	2845.2	2751.4	2618.5	2430.8
52.5°	2548.0	2544.2	2552.1	2571.5	2563.7	2571.5	2540.3	2501.2	2438.7	2309.7	2145.6
55°	2169.1	2169.1	2169.1	2192.4	2192.4	2192.4	2176.8	2153.5	2094.7	2001.0	1848.6
57.5°	1774.3	1778.2	1801.7	1805.5	1801.7	1809.5	1805.5	1782.0	1743.1	1676.7	1559.4
60°	1442.1	1442.1	1453.9	1465.6	1461.6	1465.6	1465.6	1453.9	1414.8	1360.1	1266.3
62.5°	1141.2	1152.9	1145.0	1152.9	1168.5	1152.9	1145.0	1137.3	1109.9	1074.7	996.5
65°	863.7	871.5	871.5	875.4	867.5	871.5	855.9	844.2	828.6	789.5	738.7
67.5°	656.6	656.6	656.6	656.6	652.6	648.8	644.9	633.2	605.8	590.2	535.3
70°	504.1	480.7	480.7	480.7	480.7	484.7	472.9	457.3	449.4	422.1	383.0
72.5°	336.0	343.9	336.0	336.0	328.3	332.2	316.6	308.7	301.0	285.4	261.9
75°	242.3	222.8	230.5	234.5	222.8	230.5	214.9	199.3	199.3	187.6	175.8
77.5°	156.4	152.5	156.4	160.2	156.4	152.5	144.6	136.7	136.7	132.9	121.1
80°	113.4	109.4	109.4	109.4	105.5	109.4	101.7	101.7	93.8	89.9	82.0
82.5°	74.3	74.3	70.3	74.3	70.3	74.3	62.6	62.6	62.6	58.6	50.8
85°	50.8	43.0	43.0	47.0	39.1	47.0	43.0	39.1	35.2	35.2	31.2
87.5°	23.5	27.3	23.5	27.3	23.5	23.5	27.3	23.5	23.5	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°	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8
2.5°	7964.7	7968.6	7968.6	7984.4	7992.1	7996.0	7996.0	8027.3	8015.6	8023.5	8031.2
5°	7851.5	7874.8	7882.7	7882.7	7925.7	7941.3	7956.9	7992.1	7996.0	8019.4	8046.8
7.5°	7742.0	7769.3	7785.1	7820.1	7847.5	7874.8	7921.8	7945.3	7968.6	8000.0	8035.0
10°	7636.4	7667.8	7699.0	7726.3	7769.3	7804.5	7835.7	7890.4	7917.9	7960.9	8007.7
12.5°	7534.9	7577.9	7605.2	7652.0	7699.0	7730.2	7777.2	7828.0	7871.0	7913.9	7968.6
15°	7445.0	7495.8	7527.0	7577.9	7628.7	7671.7	7722.5	7785.1	7816.3	7867.1	7917.9
17.5°	7347.2	7402.1	7441.1	7488.0	7550.5	7597.3	7640.4	7702.9	7742.0	7796.6	7855.4
20°	7245.7	7300.4	7347.2	7394.2	7456.7	7503.6	7554.4	7617.0	7659.9	7714.6	7761.6
22.5°	7124.6	7175.4	7226.1	7280.8	7343.3	7382.4	7441.1	7495.8	7542.6	7593.5	7640.4
25°	6968.2	7030.8	7069.9	7120.5	7171.4	7214.3	7276.9	7331.6	7370.7	7417.7	7460.6
27.5°	6784.5	6831.5	6862.7	6905.6	6956.5	6995.6	7042.4	7097.2	7136.3	7179.3	7210.5
30°	6471.8	6514.9	6542.2	6573.5	6624.3	6659.5	6698.6	6749.3	6776.6	6808.0	6835.3
32.5°	6061.4	6096.7	6112.3	6135.7	6171.0	6206.0	6237.4	6280.4	6292.1	6311.6	6311.6
35°	5467.5	5475.3	5471.4	5479.3	5494.9	5514.3	5541.7	5569.0	5584.6	5584.6	5573.1
37.5°	4771.8	4725.0	4674.2	4635.1	4623.3	4615.4	4631.2	4642.8	4658.6	4666.3	4646.8
40°	4048.9	3943.4	3830.0	3728.3	3658.0	3626.8	3615.0	3622.8	3622.8	3650.1	3650.1
42.5°	3427.5	3263.2	3095.3	2942.8	2841.1	2763.1	2727.9	2727.9	2731.8	2751.4	2763.1
45°	2911.6	2704.4	2509.0	2341.0	2200.3	2098.6	2051.8	2040.0	2036.2	2043.9	2071.3
47.5°	2516.8	2301.9	2098.6	1891.6	1743.1	1641.4	1598.5	1582.7	1567.1	1582.7	1586.7
50°	2208.1	1985.4	1770.4	1563.3	1406.9	1317.0	1262.3	1238.8	1234.9	1234.9	1242.8
52.5°	1926.6	1719.6	1504.7	1293.7	1129.4	1043.5	992.7	980.9	965.3	980.9	980.9
55°	1660.9	1453.9	1242.8	1043.5	906.6	816.9	769.9	754.3	746.4	758.1	758.1
57.5°	1371.8	1195.8	1000.6	820.7	684.0	621.4	586.2	566.7	562.7	570.6	562.7
60°	1125.5	977.1	809.0	644.9	539.4	472.9	445.6	437.7	429.8	437.7	437.7
62.5°	891.0	766.0	629.1	504.1	414.2	367.4	336.0	336.0	332.2	332.2	336.0
65°	660.5	562.7	465.1	359.5	289.2	254.0	230.5	230.5	226.7	230.5	226.7
67.5°	480.7	414.2	336.0	261.9	207.2	187.6	172.0	160.2	168.1	160.2	156.4
70°	351.8	297.0	242.3	199.3	160.2	140.8	129.0	125.0	117.3	117.3	117.3
72.5°	234.5	199.3	164.1	129.0	105.5	85.9	82.0	74.3	66.4	70.3	78.2
75°	156.4	132.9	117.3	93.8	70.3	70.3	47.0	47.0	39.1	47.0	35.2
77.5°	109.4	89.9	70.3	58.6	47.0	43.0	31.2	31.2	27.3	27.3	27.3
80°	78.2	66.4	50.8	43.0	31.2	31.2	27.3	23.5	19.5	19.5	23.5
82.5°	47.0	35.2	35.2	31.2	19.5	15.6	11.7	15.6	7.9	7.9	7.9
85°	27.3	23.5	19.5	11.7	7.9	7.9	3.9	0.0	3.9	3.9	0.0
87.5°	15.6	7.9	7.9	3.9	0.0	3.9	3.9	0.0	0.0	0.0	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8
2.5°	8050.8	8046.8	8054.7	8054.7	8078.2	8074.1	8085.9	8085.9	8078.2	8082.0	8097.6
5°	8078.2	8089.9	8113.2	8132.8	8167.9	8183.7	8203.1	8222.8	8226.6	8238.4	8250.1
7.5°	8078.2	8117.2	8144.6	8179.7	8226.6	8254.0	8296.9	8332.2	8347.8	8367.2	8390.7
10°	8062.4	8101.5	8152.3	8191.4	8250.1	8293.1	8336.0	8390.7	8414.2	8445.4	8476.8
12.5°	8031.2	8074.1	8128.8	8179.7	8246.1	8285.2	8339.9	8390.7	8425.9	8468.9	8504.1
15°	7984.4	8035.0	8085.9	8136.7	8207.0	8254.0	8304.8	8363.4	8398.6	8445.4	8476.8
17.5°	7910.1	7964.7	8011.7	8058.5	8125.0	8179.7	8226.6	8281.3	8316.6	8355.6	8398.6
20°	7820.1	7871.0	7921.8	7960.9	8027.3	8074.1	8125.0	8175.8	8203.1	8211.0	8277.5
22.5°	7706.9	7742.0	7781.0	7843.6	7882.7	7925.7	7972.6	8019.4	8046.8	8089.9	8113.2
25°	7519.2	7554.4	7597.3	7624.7	7671.7	7706.9	7753.7	7804.5	7820.1	7851.5	7874.8
27.5°	7257.4	7276.9	7296.5	7319.9	7347.2	7366.8	7394.2	7417.7	7433.3	7448.9	7464.5
30°	6843.1	6843.1	6843.1	6827.5	6839.2	6850.9	6854.8	6850.9	6850.9	6847.1	6847.1
32.5°	6296.0	6264.8	6229.5	6198.3	6186.6	6171.0	6163.1	6151.4	6131.9	6120.1	6124.0
35°	5557.3	5487.0	5444.0	5405.0	5373.7	5350.3	5338.5	5326.8	5322.9	5307.3	5291.5
37.5°	4635.1	4584.2	4553.0	4529.5	4502.2	4478.7	4482.6	4486.6	4498.2	4490.5	4494.3
40°	3658.0	3646.3	3658.0	3630.6	3622.8	3630.6	3650.1	3677.6	3693.2	3708.8	3736.2
42.5°	2782.6	2802.1	2829.6	2829.6	2841.1	2856.9	2880.2	2923.3	2946.7	2974.0	3005.4
45°	2094.7	2118.2	2153.5	2165.0	2172.9	2192.4	2219.9	2255.0	2270.6	2294.0	2321.4
47.5°	1614.1	1629.7	1649.2	1668.8	1688.2	1696.1	1723.5	1723.5	1743.1	1758.7	1766.4
50°	1258.4	1274.0	1289.6	1301.4	1309.3	1321.0	1328.7	1340.5	1344.3	1352.2	1356.1
52.5°	984.8	1004.4	1004.4	1012.1	1023.9	1035.6	1031.8	1035.6	1039.5	1039.5	1051.2
55°	769.9	769.9	781.6	781.6	789.5	785.5	789.5	789.5	789.5	789.5	793.4
57.5°	574.4	578.5	590.2	582.3	578.5	586.2	578.5	586.2	582.3	590.2	578.5
60°	441.6	441.6	445.6	445.6	449.4	449.4	449.4	445.6	445.6	441.6	441.6
62.5°	332.2	336.0	340.1	336.0	336.0	336.0	332.2	332.2	328.3	324.3	324.3
65°	222.8	218.9	226.7	218.9	222.8	222.8	218.9	222.8	211.1	214.9	211.1
67.5°	160.2	156.4	152.5	156.4	152.5	148.5	148.5	152.5	156.4	144.6	144.6
70°	105.5	109.4	105.5	109.4	113.4	113.4	109.4	105.5	109.4	101.7	105.5
72.5°	66.4	66.4	66.4	66.4	66.4	70.3	70.3	70.3	62.6	62.6	58.6
75°	31.2	43.0	35.2	31.2	43.0	43.0	39.1	39.1	35.2	35.2	35.2
77.5°	31.2	23.5	23.5	23.5	23.5	23.5	23.5	23.5	19.5	23.5	19.5
80°	15.6	15.6	15.6	11.7	15.6	15.6	19.5	15.6	15.6	11.7	19.5
82.5°	7.9	7.9	7.9	0.0	3.9	7.9	7.9	3.9	7.9	7.9	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: P248882

CATALOG NUMBER: LD8B175D010 ER8B175830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8
2.5°	8093.8	8089.9	8093.8	8097.6	8093.8	8089.9	8093.8	8097.6	8082.0	8078.2	8085.9
5°	8265.7	8265.7	8273.4	8277.5	8273.4	8265.7	8265.7	8250.1	8238.4	8226.6	8222.8
7.5°	8414.2	8422.1	8429.8	8433.7	8429.8	8422.1	8414.2	8390.7	8367.2	8347.8	8332.2
10°	8504.1	8515.9	8531.5	8539.2	8531.5	8515.9	8504.1	8476.8	8445.4	8414.2	8390.7
12.5°	8543.2	8554.9	8574.4	8570.6	8574.4	8554.9	8543.2	8504.1	8468.9	8425.9	8390.7
15°	8515.9	8531.5	8550.9	8558.8	8550.9	8531.5	8515.9	8476.8	8445.4	8398.6	8363.4
17.5°	8429.8	8453.3	8465.0	8476.8	8465.0	8453.3	8429.8	8398.6	8355.6	8316.6	8281.3
20°	8312.5	8328.3	8343.9	8347.8	8343.9	8328.3	8312.5	8277.5	8211.0	8203.1	8175.8
22.5°	8144.6	8156.3	8191.4	8179.7	8191.4	8156.3	8144.6	8113.2	8089.9	8046.8	8019.4
25°	7902.2	7913.9	7917.9	7921.8	7917.9	7913.9	7902.2	7874.8	7851.5	7820.1	7804.5
27.5°	7484.1	7484.1	7491.8	7495.8	7491.8	7484.1	7484.1	7464.5	7448.9	7433.3	7417.7
30°	6850.9	6850.9	6850.9	6870.6	6850.9	6850.9	6850.9	6847.1	6847.1	6850.9	6850.9
32.5°	6120.1	6112.3	6104.5	6112.3	6104.5	6112.3	6120.1	6124.0	6120.1	6131.9	6151.4
35°	5291.5	5287.7	5299.4	5283.8	5299.4	5287.7	5291.5	5291.5	5307.3	5322.9	5326.8
37.5°	4498.2	4490.5	4506.1	4490.5	4506.1	4490.5	4498.2	4494.3	4490.5	4498.2	4486.6
40°	3744.1	3751.8	3751.8	3783.1	3751.8	3751.8	3744.1	3736.2	3708.8	3693.2	3677.6
42.5°	3021.0	3044.5	3036.6	3060.1	3036.6	3044.5	3021.0	3005.4	2974.0	2946.7	2923.3
45°	2337.0	2352.8	2352.8	2360.5	2352.8	2352.8	2337.0	2321.4	2294.0	2270.6	2255.0
47.5°	1793.8	1793.8	1793.8	1797.8	1793.8	1793.8	1793.8	1766.4	1758.7	1743.1	1723.5
50°	1363.9	1367.8	1371.8	1375.7	1371.8	1367.8	1363.9	1356.1	1352.2	1344.3	1340.5
52.5°	1047.4	1051.2	1043.5	1051.2	1043.5	1051.2	1047.4	1051.2	1039.5	1039.5	1035.6
55°	793.4	789.5	793.4	797.2	793.4	789.5	793.4	793.4	789.5	789.5	789.5
57.5°	582.3	574.4	574.4	574.4	574.4	574.4	582.3	578.5	590.2	582.3	586.2
60°	433.8	437.7	437.7	441.6	437.7	437.7	433.8	441.6	441.6	445.6	445.6
62.5°	320.4	332.2	324.3	332.2	324.3	332.2	320.4	324.3	324.3	328.3	332.2
65°	207.2	207.2	207.2	211.1	207.2	207.2	207.2	211.1	214.9	211.1	222.8
67.5°	140.8	144.6	152.5	148.5	152.5	144.6	140.8	144.6	144.6	156.4	152.5
70°	113.4	101.7	101.7	113.4	101.7	101.7	113.4	105.5	101.7	109.4	105.5
72.5°	66.4	58.6	66.4	66.4	66.4	58.6	66.4	58.6	62.6	62.6	70.3
75°	35.2	31.2	27.3	39.1	27.3	31.2	35.2	35.2	35.2	35.2	39.1
77.5°	23.5	19.5	27.3	27.3	27.3	19.5	23.5	19.5	23.5	19.5	23.5
80°	11.7	15.6	11.7	19.5	11.7	15.6	11.7	19.5	11.7	15.6	15.6
82.5°	3.9	7.9	7.9	7.9	7.9	7.9	3.9	3.9	7.9	7.9	3.9
85°	0.0	7.9	3.9	3.9	3.9	7.9	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: P248882

CATALOG NUMBER: LD8B175D010 ER8B175830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8
2.5°	8085.9	8074.1	8078.2	8054.7	8054.7	8046.8	8050.8	8031.2	8023.5	8015.6	8027.3
5°	8203.1	8183.7	8167.9	8132.8	8113.2	8089.9	8078.2	8046.8	8019.4	7996.0	7992.1
7.5°	8296.9	8254.0	8226.6	8179.7	8144.6	8117.2	8078.2	8035.0	8000.0	7968.6	7945.3
10°	8336.0	8293.1	8250.1	8191.4	8152.3	8101.5	8062.4	8007.7	7960.9	7917.9	7890.4
12.5°	8339.9	8285.2	8246.1	8179.7	8128.8	8074.1	8031.2	7968.6	7913.9	7871.0	7828.0
15°	8304.8	8254.0	8207.0	8136.7	8085.9	8035.0	7984.4	7917.9	7867.1	7816.3	7785.1
17.5°	8226.6	8179.7	8125.0	8058.5	8011.7	7964.7	7910.1	7855.4	7796.6	7742.0	7702.9
20°	8125.0	8074.1	8027.3	7960.9	7921.8	7871.0	7820.1	7761.6	7714.6	7659.9	7617.0
22.5°	7972.6	7925.7	7882.7	7843.6	7781.0	7742.0	7706.9	7640.4	7593.5	7542.6	7495.8
25°	7753.7	7706.9	7671.7	7624.7	7597.3	7554.4	7519.2	7460.6	7417.7	7370.7	7331.6
27.5°	7394.2	7366.8	7347.2	7319.9	7296.5	7276.9	7257.4	7210.5	7179.3	7136.3	7097.2
30°	6854.8	6850.9	6839.2	6827.5	6843.1	6843.1	6843.1	6835.3	6808.0	6776.6	6749.3
32.5°	6163.1	6171.0	6186.6	6198.3	6229.5	6264.8	6296.0	6311.6	6311.6	6292.1	6280.4
35°	5338.5	5350.3	5373.7	5405.0	5444.0	5487.0	5557.3	5573.1	5584.6	5584.6	5569.0
37.5°	4482.6	4478.7	4502.2	4529.5	4553.0	4584.2	4635.1	4646.8	4666.3	4658.6	4642.8
40°	3650.1	3630.6	3622.8	3630.6	3658.0	3646.3	3658.0	3650.1	3650.1	3622.8	3622.8
42.5°	2880.2	2856.9	2841.1	2829.6	2829.6	2802.1	2782.6	2763.1	2751.4	2731.8	2727.9
45°	2219.9	2192.4	2172.9	2165.0	2153.5	2118.2	2094.7	2071.3	2043.9	2036.2	2040.0
47.5°	1723.5	1696.1	1688.2	1668.8	1649.2	1629.7	1614.1	1586.7	1582.7	1567.1	1582.7
50°	1328.7	1321.0	1309.3	1301.4	1289.6	1274.0	1258.4	1242.8	1234.9	1234.9	1238.8
52.5°	1031.8	1035.6	1023.9	1012.1	1004.4	1004.4	984.8	980.9	980.9	965.3	980.9
55°	789.5	785.5	789.5	781.6	781.6	769.9	769.9	758.1	758.1	746.4	754.3
57.5°	578.5	586.2	578.5	582.3	590.2	578.5	574.4	562.7	570.6	562.7	566.7
60°	449.4	449.4	449.4	445.6	445.6	441.6	441.6	437.7	437.7	429.8	437.7
62.5°	332.2	336.0	336.0	336.0	340.1	336.0	332.2	336.0	332.2	332.2	336.0
65°	218.9	222.8	222.8	218.9	226.7	218.9	222.8	226.7	230.5	226.7	230.5
67.5°	148.5	148.5	152.5	156.4	152.5	156.4	160.2	156.4	160.2	168.1	160.2
70°	109.4	113.4	113.4	109.4	105.5	109.4	105.5	117.3	117.3	117.3	125.0
72.5°	70.3	70.3	66.4	66.4	66.4	66.4	66.4	78.2	70.3	66.4	74.3
75°	39.1	43.0	43.0	31.2	35.2	43.0	31.2	35.2	47.0	39.1	47.0
77.5°	23.5	23.5	23.5	23.5	23.5	23.5	31.2	27.3	27.3	27.3	31.2
80°	19.5	15.6	15.6	11.7	15.6	15.6	15.6	23.5	19.5	19.5	23.5
82.5°	7.9	7.9	3.9	0.0	7.9	7.9	7.9	7.9	7.9	7.9	15.6
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	7.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248882

CATALOG NUMBER: LD8B175D010 ER8B175830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8
2.5°	7996.0	7996.0	7992.1	7984.4	7968.6	7968.6	7964.7	7953.0	7945.3	7941.3	7941.3
5°	7956.9	7941.3	7925.7	7882.7	7882.7	7874.8	7851.5	7835.7	7828.0	7808.4	7800.7
7.5°	7921.8	7874.8	7847.5	7820.1	7785.1	7769.3	7742.0	7730.2	7702.9	7683.4	7671.7
10°	7835.7	7804.5	7769.3	7726.3	7699.0	7667.8	7636.4	7613.1	7577.9	7558.2	7542.6
12.5°	7777.2	7730.2	7699.0	7652.0	7605.2	7577.9	7534.9	7507.6	7472.3	7433.3	7409.8
15°	7722.5	7671.7	7628.7	7577.9	7527.0	7495.8	7445.0	7413.8	7363.0	7323.9	7296.5
17.5°	7640.4	7597.3	7550.5	7488.0	7441.1	7402.1	7347.2	7308.3	7261.3	7210.5	7183.1
20°	7554.4	7503.6	7456.7	7394.2	7347.2	7300.4	7245.7	7202.7	7147.9	7101.1	7069.9
22.5°	7441.1	7382.4	7343.3	7280.8	7226.1	7175.4	7124.6	7073.7	7022.9	6983.8	6948.6
25°	7276.9	7214.3	7171.4	7120.5	7069.9	7030.8	6968.2	6937.0	6886.2	6850.9	6815.7
27.5°	7042.4	6995.6	6956.5	6905.6	6862.7	6831.5	6784.5	6753.3	6710.2	6679.0	6651.6
30°	6698.6	6659.5	6624.3	6573.5	6542.2	6514.9	6471.8	6444.4	6413.2	6378.0	6370.3
32.5°	6237.4	6206.0	6171.0	6135.7	6112.3	6096.7	6061.4	6045.8	6014.6	5995.0	5975.5
35°	5541.7	5514.3	5494.9	5479.3	5471.4	5475.3	5467.5	5483.1	5490.9	5487.0	5490.9
37.5°	4631.2	4615.4	4623.3	4635.1	4674.2	4725.0	4771.8	4842.1	4889.1	4936.0	4979.0
40°	3615.0	3626.8	3658.0	3728.3	3830.0	3943.4	4048.9	4181.8	4314.6	4408.4	4494.3
42.5°	2727.9	2763.1	2841.1	2942.8	3095.3	3263.2	3427.5	3622.8	3783.1	3939.3	4048.9
45°	2051.8	2098.6	2200.3	2341.0	2509.0	2704.4	2911.6	3130.4	3322.0	3482.2	3603.3
47.5°	1598.5	1641.4	1743.1	1891.6	2098.6	2301.9	2516.8	2743.5	2942.8	3099.2	3204.7
50°	1262.3	1317.0	1406.9	1563.3	1770.4	1985.4	2208.1	2430.8	2618.5	2751.4	2845.2
52.5°	992.7	1043.5	1129.4	1293.7	1504.7	1719.6	1926.6	2145.6	2309.7	2438.7	2501.2
55°	769.9	816.9	906.6	1043.5	1242.8	1453.9	1660.9	1848.6	2001.0	2094.7	2153.5
57.5°	586.2	621.4	684.0	820.7	1000.6	1195.8	1371.8	1559.4	1676.7	1743.1	1782.0
60°	445.6	472.9	539.4	644.9	809.0	977.1	1125.5	1266.3	1360.1	1414.8	1453.9
62.5°	336.0	367.4	414.2	504.1	629.1	766.0	891.0	996.5	1074.7	1109.9	1137.3
65°	230.5	254.0	289.2	359.5	465.1	562.7	660.5	738.7	789.5	828.6	844.2
67.5°	172.0	187.6	207.2	261.9	336.0	414.2	480.7	535.3	590.2	605.8	633.2
70°	129.0	140.8	160.2	199.3	242.3	297.0	351.8	383.0	422.1	449.4	457.3
72.5°	82.0	85.9	105.5	129.0	164.1	199.3	234.5	261.9	285.4	301.0	308.7
75°	47.0	70.3	70.3	93.8	117.3	132.9	156.4	175.8	187.6	199.3	199.3
77.5°	31.2	43.0	47.0	58.6	70.3	89.9	109.4	121.1	132.9	136.7	136.7
80°	27.3	31.2	31.2	43.0	50.8	66.4	78.2	82.0	89.9	93.8	101.7
82.5°	11.7	15.6	19.5	31.2	35.2	35.2	47.0	50.8	58.6	62.6	62.6
85°	3.9	7.9	7.9	11.7	19.5	23.5	27.3	31.2	35.2	35.2	39.1
87.5°	3.9	3.9	0.0	3.9	7.9	7.9	15.6	15.6	15.6	23.5	23.5
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: P248882

CATALOG NUMBER: LD8B175D010 ER8B175830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8	8003.8
2.5°	7933.5	7937.4	7921.8	7917.9	7910.1	7913.9	7921.8
5°	7788.9	7792.8	7777.2	7761.6	7761.6	7757.6	7761.6
7.5°	7652.0	7656.1	7632.6	7624.7	7609.1	7613.1	7613.1
10°	7515.3	7515.3	7480.2	7476.2	7464.5	7460.6	7460.6
12.5°	7382.4	7370.7	7343.3	7327.7	7335.6	7312.1	7312.1
15°	7265.2	7245.7	7210.5	7198.7	7179.3	7171.4	7171.4
17.5°	7144.0	7128.4	7097.2	7073.7	7050.2	7046.4	7050.2
20°	7026.8	7011.2	6972.1	6956.5	6937.0	6937.0	6929.1
22.5°	6909.5	6893.9	6858.8	6847.1	6819.7	6819.7	6823.6
25°	6788.4	6776.6	6737.5	6729.8	6726.0	6710.2	6718.1
27.5°	6624.3	6616.4	6585.2	6573.5	6557.9	6554.0	6561.7
30°	6323.3	6311.6	6288.2	6276.5	6249.2	6253.0	6260.7
32.5°	5948.2	5932.6	5901.2	5889.5	5866.1	5858.3	5862.1
35°	5479.3	5467.5	5440.2	5440.2	5416.7	5408.8	5416.7
37.5°	5002.5	5014.1	5002.5	5014.1	5002.5	4998.5	5002.5
40°	4553.0	4596.0	4603.7	4646.8	4631.2	4654.5	4650.7
42.5°	4123.0	4193.3	4220.9	4255.9	4248.2	4263.8	4275.5
45°	3689.2	3747.9	3775.3	3798.7	3802.6	3810.5	3814.4
47.5°	3278.8	3325.8	3329.7	3357.0	3353.2	3353.2	3364.9
50°	2896.0	2927.2	2934.9	2954.5	2938.9	2931.1	2934.9
52.5°	2540.3	2571.5	2563.7	2571.5	2552.1	2544.2	2548.0
55°	2176.8	2192.4	2192.4	2192.4	2169.1	2169.1	2169.1
57.5°	1805.5	1809.5	1801.7	1805.5	1801.7	1778.2	1774.3
60°	1465.6	1465.6	1461.6	1465.6	1453.9	1442.1	1442.1
62.5°	1145.0	1152.9	1168.5	1152.9	1145.0	1152.9	1141.2
65°	855.9	871.5	867.5	875.4	871.5	871.5	863.7
67.5°	644.9	648.8	652.6	656.6	656.6	656.6	656.6
70°	472.9	484.7	480.7	480.7	480.7	480.7	504.1
72.5°	316.6	332.2	328.3	336.0	336.0	343.9	336.0
75°	214.9	230.5	222.8	234.5	230.5	222.8	242.3
77.5°	144.6	152.5	156.4	160.2	156.4	152.5	156.4
80°	101.7	109.4	105.5	109.4	109.4	109.4	113.4
82.5°	62.6	74.3	70.3	74.3	70.3	74.3	74.3
85°	43.0	47.0	39.1	47.0	43.0	43.0	50.8
87.5°	27.3	23.5	23.5	27.3	23.5	27.3	23.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)