

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: P249080

Luminaire Tested: **LD8B175D010 ER8B175930 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249080
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 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14993.3 lumens
Efficiency: N/A
Efficacy: 84.6 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

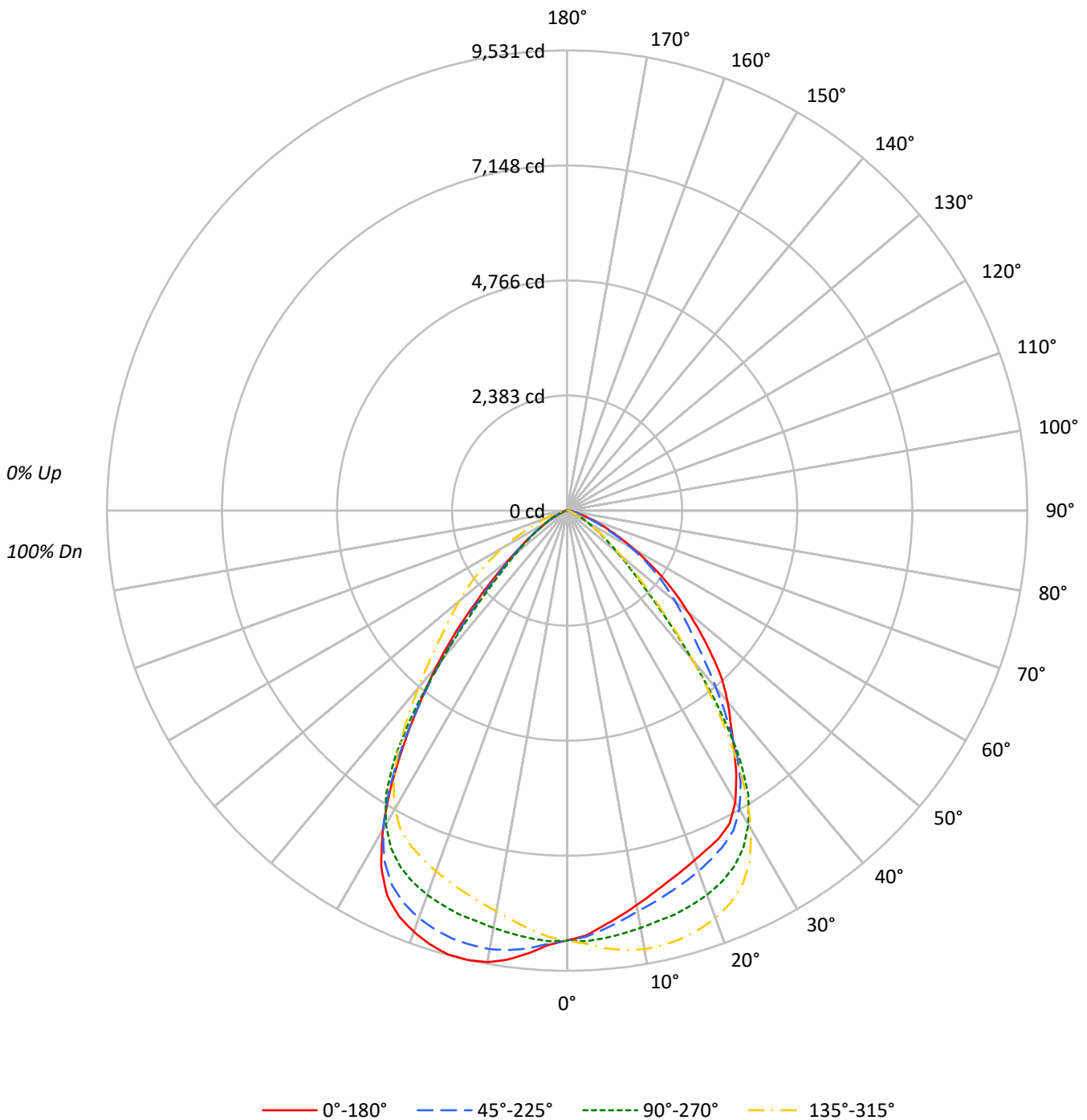
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	847.2	5.7
10°-20°	2453.4	16.4
20°-30°	3714.9	24.8
30°-40°	3723.3	24.8
40°-50°	2338.0	15.6
50°-60°	1245.9	8.3
60°-70°	512.3	3.4
70°-80°	135.3	0.9
80°-90°	22.9	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°	7015.5	46.8
0°-40°	10738.8	71.6
0°-60°	14322.8	95.5
0°-90°	14993.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14993.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8901	8901	8901	8901	8901	
5°	8632	8888	9205	8888	8632	814
15°	7975	8658	9518	8658	7975	2256
25°	7471	8154	8810	8154	7471	3427
35°	6024	6193	5876	6193	6024	3774
45°	4242	2269	2625	2269	4242	3262
55°	2412	839	887	839	2412	2151
65°	960	256	235	256	960	996
75°	269	52	44	52	269	305
85°	56	0	4	0	56	62
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°	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1
2.5°	8809.8	8801.1	8796.8	8805.6	8809.8	8827.2	8822.9	8831.5	8831.5	8835.9	8844.6
5°	8631.7	8627.2	8631.7	8631.7	8649.1	8666.3	8662.1	8675.2	8683.7	8705.6	8714.1
7.5°	8466.6	8466.6	8462.1	8479.5	8488.2	8514.3	8509.8	8531.7	8544.7	8566.3	8596.8
10°	8297.0	8297.0	8301.2	8314.3	8318.8	8357.8	8357.8	8388.2	8405.6	8427.3	8466.6
12.5°	8131.8	8131.8	8158.0	8149.2	8166.6	8197.0	8210.0	8240.5	8266.6	8310.0	8349.2
15°	7975.4	7975.4	7984.1	8005.7	8018.7	8058.0	8079.6	8114.5	8144.8	8188.3	8245.0
17.5°	7840.6	7836.4	7840.6	7866.7	7892.8	7927.6	7944.9	7988.4	8018.7	8075.3	8127.6
20°	7705.9	7714.6	7714.6	7736.4	7753.6	7797.1	7814.5	7862.5	7897.1	7949.2	8010.2
22.5°	7588.5	7584.2	7584.2	7614.6	7627.7	7666.7	7684.1	7727.5	7766.7	7810.2	7866.7
25°	7471.2	7462.4	7480.0	7484.2	7492.9	7536.3	7549.4	7579.8	7619.0	7658.1	7714.6
27.5°	7297.3	7288.7	7293.0	7310.4	7323.4	7358.1	7366.9	7397.3	7427.7	7462.4	7510.4
30°	6962.6	6954.0	6949.8	6980.1	6993.1	7019.1	7032.1	7084.4	7093.0	7132.1	7166.9
32.5°	6519.3	6515.0	6523.8	6549.7	6562.8	6597.6	6615.0	6645.4	6667.0	6688.9	6723.5
35°	6023.9	6015.2	6023.9	6050.0	6050.0	6080.4	6093.5	6106.4	6102.1	6106.4	6097.8
37.5°	5563.3	5558.8	5563.3	5576.2	5563.3	5576.2	5563.3	5537.2	5489.4	5437.2	5384.9
40°	5172.1	5176.3	5150.4	5167.7	5119.8	5111.2	5063.4	4998.1	4902.6	4798.3	4650.6
42.5°	4754.8	4741.8	4724.5	4733.0	4694.1	4663.5	4585.2	4502.8	4381.0	4207.2	4028.9
45°	4242.0	4237.7	4228.9	4224.6	4198.5	4168.1	4102.7	4007.2	3872.5	3694.4	3481.3
47.5°	3742.1	3729.1	3729.1	3733.4	3703.0	3698.6	3646.4	3564.0	3446.6	3272.6	3051.0
50°	3263.9	3259.6	3268.4	3285.8	3263.9	3255.4	3220.6	3164.1	3059.8	2912.0	2703.3
52.5°	2833.7	2829.4	2838.1	2859.8	2851.0	2859.8	2825.1	2781.6	2712.0	2568.5	2386.0
55°	2412.2	2412.2	2412.2	2438.2	2438.2	2438.2	2420.8	2394.9	2329.6	2225.3	2055.9
57.5°	1973.2	1977.6	2003.7	2007.9	2003.7	2012.4	2007.9	1981.8	1938.5	1864.7	1734.2
60°	1603.8	1603.8	1616.8	1629.9	1625.4	1629.9	1629.9	1616.8	1573.4	1512.6	1408.3
62.5°	1269.1	1282.1	1273.3	1282.1	1299.5	1282.1	1273.3	1264.8	1234.3	1195.2	1108.2
65°	960.5	969.2	969.2	973.6	964.7	969.2	952.0	938.8	921.5	878.0	821.5
67.5°	730.2	730.2	730.2	730.2	725.7	721.5	717.2	704.1	673.7	656.3	595.4
70°	560.6	534.5	534.5	534.5	534.5	539.0	526.0	508.6	499.9	469.5	426.0
72.5°	373.7	382.5	373.7	373.7	365.1	369.4	352.1	343.3	334.7	317.4	291.2
75°	269.4	247.7	256.4	260.9	247.7	256.4	239.0	221.6	221.6	208.6	195.5
77.5°	173.9	169.6	173.9	178.1	173.9	169.6	160.9	152.0	152.0	147.7	134.7
80°	126.1	121.6	121.6	121.6	117.4	121.6	113.1	113.1	104.3	100.0	91.2
82.5°	82.6	82.6	78.1	82.6	78.1	82.6	69.6	69.6	69.6	65.1	56.5
85°	56.5	47.8	47.8	52.2	43.5	52.2	47.8	43.5	39.1	39.1	34.8
87.5°	26.1	30.4	26.1	30.4	26.1	26.1	30.4	26.1	26.1	17.4	17.4
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°	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1
2.5°	8857.6	8862.0	8862.0	8879.4	8888.1	8892.3	8892.3	8927.2	8914.2	8922.9	8931.5
5°	8731.7	8757.6	8766.3	8766.3	8814.2	8831.5	8848.8	8888.1	8892.3	8918.5	8948.8
7.5°	8609.8	8640.2	8657.8	8696.8	8727.2	8757.6	8809.8	8835.9	8862.0	8896.8	8935.8
10°	8492.5	8527.3	8562.1	8592.5	8640.2	8679.5	8714.1	8775.0	8805.6	8853.3	8905.3
12.5°	8379.6	8427.3	8457.8	8509.8	8562.1	8596.8	8649.1	8705.6	8753.3	8801.1	8862.0
15°	8279.6	8336.1	8370.8	8427.3	8484.0	8531.7	8588.2	8657.8	8692.5	8749.1	8805.6
17.5°	8170.9	8231.8	8275.3	8327.3	8397.0	8449.0	8497.0	8566.3	8609.8	8670.7	8736.0
20°	8058.0	8118.7	8170.9	8223.1	8292.7	8344.7	8401.2	8470.8	8518.6	8579.5	8631.7
22.5°	7923.2	7979.8	8036.1	8097.0	8166.6	8210.0	8275.3	8336.1	8388.2	8444.7	8497.0
25°	7749.4	7819.0	7862.5	7918.7	7975.4	8023.1	8092.6	8153.5	8197.0	8249.2	8297.0
27.5°	7545.1	7597.4	7632.0	7679.7	7736.4	7779.7	7831.9	7892.8	7936.3	7984.1	8018.7
30°	7197.3	7245.2	7275.6	7310.4	7366.9	7406.1	7449.5	7505.9	7536.3	7571.2	7601.6
32.5°	6740.9	6780.1	6797.5	6823.6	6862.8	6901.8	6936.6	6984.4	6997.5	7019.1	7019.1
35°	6080.4	6089.0	6084.8	6093.5	6110.9	6132.5	6162.9	6193.3	6210.7	6210.7	6197.8
37.5°	5306.7	5254.7	5198.2	5154.7	5141.6	5132.8	5150.4	5163.2	5180.8	5189.3	5167.7
40°	4502.8	4385.5	4259.4	4146.2	4068.1	4033.4	4020.4	4028.9	4028.9	4059.3	4059.3
42.5°	3811.7	3629.0	3442.3	3272.6	3159.7	3072.9	3033.7	3033.7	3038.0	3059.8	3072.9
45°	3238.0	3007.5	2790.2	2603.4	2446.9	2333.8	2281.8	2268.8	2264.4	2273.1	2303.4
47.5°	2799.0	2560.0	2333.8	2103.7	1938.5	1825.4	1777.7	1760.2	1742.8	1760.2	1764.6
50°	2455.7	2207.9	1968.9	1738.4	1564.6	1464.6	1403.8	1377.7	1373.3	1373.3	1382.2
52.5°	2142.7	1912.4	1673.4	1438.7	1256.0	1160.5	1104.0	1090.8	1073.6	1090.8	1090.8
55°	1847.1	1616.8	1382.2	1160.5	1008.2	908.5	856.2	838.8	830.1	843.1	843.1
57.5°	1525.6	1330.0	1112.7	912.7	760.7	691.1	651.9	630.2	625.7	634.5	625.7
60°	1251.7	1086.6	899.7	717.2	599.8	526.0	495.6	486.7	478.0	486.7	486.7
62.5°	990.9	851.8	699.6	560.6	460.6	408.6	373.7	373.7	369.4	369.4	373.7
65°	734.6	625.7	517.2	399.9	321.6	282.5	256.4	256.4	252.1	256.4	252.1
67.5°	534.5	460.6	373.7	291.2	230.4	208.6	191.2	178.1	187.0	178.1	173.9
70°	391.2	330.2	269.4	221.6	178.1	156.5	143.5	139.0	130.4	130.4	130.4
72.5°	260.9	221.6	182.5	143.5	117.4	95.5	91.2	82.6	73.9	78.1	87.0
75°	173.9	147.7	130.4	104.3	78.1	78.1	52.2	52.2	43.5	52.2	39.1
77.5°	121.6	100.0	78.1	65.1	52.2	47.8	34.8	34.8	30.4	30.4	30.4
80°	87.0	73.9	56.5	47.8	34.8	34.8	30.4	26.1	21.6	21.6	26.1
82.5°	52.2	39.1	39.1	34.8	21.6	17.4	13.0	17.4	8.7	8.7	8.7
85°	30.4	26.1	21.6	13.0	8.7	8.7	4.3	0.0	4.3	4.3	0.0
87.5°	17.4	8.7	8.7	4.3	0.0	4.3	4.3	0.0	0.0	0.0	8.7
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°	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1
2.5°	8953.3	8948.8	8957.6	8957.6	8983.7	8979.3	8992.3	8992.3	8983.7	8988.1	9005.4
5°	8983.7	8996.8	9022.7	9044.6	9083.6	9101.1	9122.7	9144.6	9148.8	9161.9	9174.9
7.5°	8983.7	9027.2	9057.7	9096.6	9148.8	9179.3	9227.1	9266.2	9283.6	9305.2	9331.3
10°	8966.2	9009.7	9066.2	9109.7	9174.9	9222.7	9270.6	9331.3	9357.4	9392.2	9427.0
12.5°	8931.5	8979.3	9040.1	9096.6	9170.5	9213.9	9274.8	9331.3	9370.6	9418.3	9457.4
15°	8879.4	8935.8	8992.3	9048.8	9127.1	9179.3	9235.8	9300.9	9340.1	9392.2	9427.0
17.5°	8796.8	8857.6	8909.8	8961.9	9035.8	9096.6	9148.8	9209.7	9248.8	9292.3	9340.1
20°	8696.8	8753.3	8809.8	8853.3	8927.2	8979.3	9035.8	9092.3	9122.7	9131.6	9205.4
22.5°	8570.8	8609.8	8653.3	8722.9	8766.3	8814.2	8866.4	8918.5	8948.8	8996.8	9022.7
25°	8362.1	8401.2	8449.0	8479.5	8531.7	8570.8	8623.0	8679.5	8696.8	8731.7	8757.6
27.5°	8071.0	8092.6	8114.5	8140.5	8170.9	8192.7	8223.1	8249.2	8266.6	8283.9	8301.2
30°	7610.1	7610.1	7610.1	7592.9	7605.9	7619.0	7623.2	7619.0	7619.0	7614.6	7614.6
32.5°	7001.8	6967.0	6927.9	6893.1	6880.1	6862.8	6854.0	6840.9	6819.3	6806.3	6810.5
35°	6180.3	6102.1	6054.3	6010.9	5976.2	5950.0	5936.9	5923.9	5919.7	5902.3	5884.8
37.5°	5154.7	5098.2	5063.4	5037.3	5006.9	4980.8	4985.1	4989.6	5002.5	4993.8	4998.1
40°	4068.1	4055.0	4068.1	4037.6	4028.9	4037.6	4059.3	4089.9	4107.2	4124.6	4155.0
42.5°	3094.5	3116.2	3146.8	3146.8	3159.7	3177.1	3203.1	3251.0	3277.0	3307.4	3342.3
45°	2329.6	2355.7	2394.9	2407.8	2416.5	2438.2	2468.8	2507.8	2525.1	2551.2	2581.7
47.5°	1795.1	1812.4	1834.1	1855.8	1877.5	1886.3	1916.7	1916.7	1938.5	1955.8	1964.4
50°	1399.5	1416.8	1434.2	1447.2	1456.1	1469.1	1477.7	1490.7	1495.1	1503.8	1508.1
52.5°	1095.2	1117.0	1117.0	1125.6	1138.7	1151.7	1147.5	1151.7	1156.0	1156.0	1169.1
55°	856.2	856.2	869.2	869.2	878.0	873.6	878.0	878.0	878.0	878.0	882.3
57.5°	638.9	643.3	656.3	647.6	643.3	651.9	643.3	651.9	647.6	656.3	643.3
60°	491.1	491.1	495.6	495.6	499.9	499.9	499.9	495.6	495.6	491.1	491.1
62.5°	369.4	373.7	378.2	373.7	373.7	373.7	369.4	369.4	365.1	360.6	360.6
65°	247.7	243.5	252.1	243.5	247.7	247.7	243.5	247.7	234.7	239.0	234.7
67.5°	178.1	173.9	169.6	173.9	169.6	165.1	165.1	169.6	173.9	160.9	160.9
70°	117.4	121.6	117.4	121.6	126.1	126.1	121.6	117.4	121.6	113.1	117.4
72.5°	73.9	73.9	73.9	73.9	73.9	78.1	78.1	78.1	69.6	69.6	65.1
75°	34.8	47.8	39.1	34.8	47.8	47.8	43.5	43.5	39.1	39.1	39.1
77.5°	34.8	26.1	26.1	26.1	26.1	26.1	26.1	26.1	21.6	26.1	21.6
80°	17.4	17.4	17.4	13.0	17.4	17.4	21.6	17.4	17.4	13.0	21.6
82.5°	8.7	8.7	8.7	0.0	4.3	8.7	8.7	4.3	8.7	8.7	4.3
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: P249080

CATALOG NUMBER: LD8B175D010 ER8B175930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1
2.5°	9001.1	8996.8	9001.1	9005.4	9001.1	8996.8	9001.1	9005.4	8988.1	8983.7	8992.3
5°	9192.3	9192.3	9200.9	9205.4	9200.9	9192.3	9192.3	9174.9	9161.9	9148.8	9144.6
7.5°	9357.4	9366.2	9374.8	9379.1	9374.8	9366.2	9357.4	9331.3	9305.2	9283.6	9266.2
10°	9457.4	9470.5	9487.9	9496.4	9487.9	9470.5	9457.4	9427.0	9392.2	9357.4	9331.3
12.5°	9500.9	9514.0	9535.7	9531.3	9535.7	9514.0	9500.9	9457.4	9418.3	9370.6	9331.3
15°	9470.5	9487.9	9509.6	9518.3	9509.6	9487.9	9470.5	9427.0	9392.2	9340.1	9300.9
17.5°	9374.8	9400.9	9413.9	9427.0	9413.9	9400.9	9374.8	9340.1	9292.3	9248.8	9209.7
20°	9244.4	9261.9	9279.3	9283.6	9279.3	9261.9	9244.4	9205.4	9131.6	9122.7	9092.3
22.5°	9057.7	9070.7	9109.7	9096.6	9109.7	9070.7	9057.7	9022.7	8996.8	8948.8	8918.5
25°	8788.1	8801.1	8805.6	8809.8	8805.6	8801.1	8788.1	8757.6	8731.7	8696.8	8679.5
27.5°	8323.1	8323.1	8331.7	8336.1	8331.7	8323.1	8323.1	8301.2	8283.9	8266.6	8249.2
30°	7619.0	7619.0	7619.0	7640.7	7619.0	7619.0	7619.0	7614.6	7614.6	7619.0	7619.0
32.5°	6806.3	6797.5	6788.9	6797.5	6788.9	6797.5	6806.3	6810.5	6806.3	6819.3	6840.9
35°	5884.8	5880.4	5893.5	5876.2	5893.5	5880.4	5884.8	5884.8	5902.3	5919.7	5923.9
37.5°	5002.5	4993.8	5011.2	4993.8	5011.2	4993.8	5002.5	4998.1	4993.8	5002.5	4989.6
40°	4163.7	4172.4	4172.4	4207.2	4172.4	4172.4	4163.7	4155.0	4124.6	4107.2	4089.9
42.5°	3359.6	3385.8	3377.0	3403.1	3377.0	3385.8	3359.6	3342.3	3307.4	3277.0	3251.0
45°	2599.0	2616.5	2616.5	2625.2	2616.5	2616.5	2599.0	2581.7	2551.2	2525.1	2507.8
47.5°	1994.8	1994.8	1994.8	1999.3	1994.8	1994.8	1994.8	1964.4	1955.8	1938.5	1916.7
50°	1516.8	1521.2	1525.6	1529.9	1525.6	1521.2	1516.8	1508.1	1503.8	1495.1	1490.7
52.5°	1164.8	1169.1	1160.5	1169.1	1160.5	1169.1	1164.8	1169.1	1156.0	1156.0	1151.7
55°	882.3	878.0	882.3	886.6	882.3	878.0	882.3	882.3	878.0	878.0	878.0
57.5°	647.6	638.9	638.9	638.9	638.9	638.9	647.6	643.3	656.3	647.6	651.9
60°	482.5	486.7	486.7	491.1	486.7	486.7	482.5	491.1	491.1	495.6	495.6
62.5°	356.4	369.4	360.6	369.4	360.6	369.4	356.4	360.6	360.6	365.1	369.4
65°	230.4	230.4	230.4	234.7	230.4	230.4	230.4	234.7	239.0	234.7	247.7
67.5°	156.5	160.9	169.6	165.1	169.6	160.9	156.5	160.9	160.9	173.9	169.6
70°	126.1	113.1	113.1	126.1	113.1	113.1	126.1	117.4	113.1	121.6	117.4
72.5°	73.9	65.1	73.9	73.9	73.9	65.1	73.9	65.1	69.6	69.6	78.1
75°	39.1	34.8	30.4	43.5	30.4	34.8	39.1	39.1	39.1	39.1	43.5
77.5°	26.1	21.6	30.4	30.4	30.4	21.6	26.1	21.6	26.1	21.6	26.1
80°	13.0	17.4	13.0	21.6	13.0	17.4	13.0	21.6	13.0	17.4	17.4
82.5°	4.3	8.7	8.7	8.7	8.7	8.7	4.3	4.3	8.7	8.7	4.3
85°	0.0	8.7	4.3	4.3	4.3	8.7	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	0.0	0.0	4.3	0.0	0.0	4.3	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: P249080

CATALOG NUMBER: LD8B175D010 ER8B175930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1
2.5°	8992.3	8979.3	8983.7	8957.6	8957.6	8948.8	8953.3	8931.5	8922.9	8914.2	8927.2
5°	9122.7	9101.1	9083.6	9044.6	9022.7	8996.8	8983.7	8948.8	8918.5	8892.3	8888.1
7.5°	9227.1	9179.3	9148.8	9096.6	9057.7	9027.2	8983.7	8935.8	8896.8	8862.0	8835.9
10°	9270.6	9222.7	9174.9	9109.7	9066.2	9009.7	8966.2	8905.3	8853.3	8805.6	8775.0
12.5°	9274.8	9213.9	9170.5	9096.6	9040.1	8979.3	8931.5	8862.0	8801.1	8753.3	8705.6
15°	9235.8	9179.3	9127.1	9048.8	8992.3	8935.8	8879.4	8805.6	8749.1	8692.5	8657.8
17.5°	9148.8	9096.6	9035.8	8961.9	8909.8	8857.6	8796.8	8736.0	8670.7	8609.8	8566.3
20°	9035.8	8979.3	8927.2	8853.3	8809.8	8753.3	8696.8	8631.7	8579.5	8518.6	8470.8
22.5°	8866.4	8814.2	8766.3	8722.9	8653.3	8609.8	8570.8	8497.0	8444.7	8388.2	8336.1
25°	8623.0	8570.8	8531.7	8479.5	8449.0	8401.2	8362.1	8297.0	8249.2	8197.0	8153.5
27.5°	8223.1	8192.7	8170.9	8140.5	8114.5	8092.6	8071.0	8018.7	7984.1	7936.3	7892.8
30°	7623.2	7619.0	7605.9	7592.9	7610.1	7610.1	7610.1	7601.6	7571.2	7536.3	7505.9
32.5°	6854.0	6862.8	6880.1	6893.1	6927.9	6967.0	7001.8	7019.1	7019.1	6997.5	6984.4
35°	5936.9	5950.0	5976.2	6010.9	6054.3	6102.1	6180.3	6197.8	6210.7	6210.7	6193.3
37.5°	4985.1	4980.8	5006.9	5037.3	5063.4	5098.2	5154.7	5167.7	5189.3	5180.8	5163.2
40°	4059.3	4037.6	4028.9	4037.6	4068.1	4055.0	4068.1	4059.3	4059.3	4028.9	4028.9
42.5°	3203.1	3177.1	3159.7	3146.8	3146.8	3116.2	3094.5	3072.9	3059.8	3038.0	3033.7
45°	2468.8	2438.2	2416.5	2407.8	2394.9	2355.7	2329.6	2303.4	2273.1	2264.4	2268.8
47.5°	1916.7	1886.3	1877.5	1855.8	1834.1	1812.4	1795.1	1764.6	1760.2	1742.8	1760.2
50°	1477.7	1469.1	1456.1	1447.2	1434.2	1416.8	1399.5	1382.2	1373.3	1373.3	1377.7
52.5°	1147.5	1151.7	1138.7	1125.6	1117.0	1117.0	1095.2	1090.8	1090.8	1073.6	1090.8
55°	878.0	873.6	878.0	869.2	869.2	856.2	856.2	843.1	843.1	830.1	838.8
57.5°	643.3	651.9	643.3	647.6	656.3	643.3	638.9	625.7	634.5	625.7	630.2
60°	499.9	499.9	499.9	495.6	495.6	491.1	491.1	486.7	486.7	478.0	486.7
62.5°	369.4	373.7	373.7	373.7	378.2	373.7	369.4	373.7	369.4	369.4	373.7
65°	243.5	247.7	247.7	243.5	252.1	243.5	247.7	252.1	256.4	252.1	256.4
67.5°	165.1	165.1	169.6	173.9	169.6	173.9	178.1	173.9	178.1	187.0	178.1
70°	121.6	126.1	126.1	121.6	117.4	121.6	117.4	130.4	130.4	130.4	139.0
72.5°	78.1	78.1	73.9	73.9	73.9	73.9	73.9	87.0	78.1	73.9	82.6
75°	43.5	47.8	47.8	34.8	39.1	47.8	34.8	39.1	52.2	43.5	52.2
77.5°	26.1	26.1	26.1	26.1	26.1	26.1	34.8	30.4	30.4	30.4	34.8
80°	21.6	17.4	17.4	13.0	17.4	17.4	17.4	26.1	21.6	21.6	26.1
82.5°	8.7	8.7	4.3	0.0	8.7	8.7	8.7	8.7	8.7	8.7	17.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	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: P249080

CATALOG NUMBER: LD8B175D010 ER8B175930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1
2.5°	8892.3	8892.3	8888.1	8879.4	8862.0	8862.0	8857.6	8844.6	8835.9	8831.5	8831.5
5°	8848.8	8831.5	8814.2	8766.3	8766.3	8757.6	8731.7	8714.1	8705.6	8683.7	8675.2
7.5°	8809.8	8757.6	8727.2	8696.8	8657.8	8640.2	8609.8	8596.8	8566.3	8544.7	8531.7
10°	8714.1	8679.5	8640.2	8592.5	8562.1	8527.3	8492.5	8466.6	8427.3	8405.6	8388.2
12.5°	8649.1	8596.8	8562.1	8509.8	8457.8	8427.3	8379.6	8349.2	8310.0	8266.6	8240.5
15°	8588.2	8531.7	8484.0	8427.3	8370.8	8336.1	8279.6	8245.0	8188.3	8144.8	8114.5
17.5°	8497.0	8449.0	8397.0	8327.3	8275.3	8231.8	8170.9	8127.6	8075.3	8018.7	7988.4
20°	8401.2	8344.7	8292.7	8223.1	8170.9	8118.7	8058.0	8010.2	7949.2	7897.1	7862.5
22.5°	8275.3	8210.0	8166.6	8097.0	8036.1	7979.8	7923.2	7866.7	7810.2	7766.7	7727.5
25°	8092.6	8023.1	7975.4	7918.7	7862.5	7819.0	7749.4	7714.6	7658.1	7619.0	7579.8
27.5°	7831.9	7779.7	7736.4	7679.7	7632.0	7597.4	7545.1	7510.4	7462.4	7427.7	7397.3
30°	7449.5	7406.1	7366.9	7310.4	7275.6	7245.2	7197.3	7166.9	7132.1	7093.0	7084.4
32.5°	6936.6	6901.8	6862.8	6823.6	6797.5	6780.1	6740.9	6723.5	6688.9	6667.0	6645.4
35°	6162.9	6132.5	6110.9	6093.5	6084.8	6089.0	6080.4	6097.8	6106.4	6102.1	6106.4
37.5°	5150.4	5132.8	5141.6	5154.7	5198.2	5254.7	5306.7	5384.9	5437.2	5489.4	5537.2
40°	4020.4	4033.4	4068.1	4146.2	4259.4	4385.5	4502.8	4650.6	4798.3	4902.6	4998.1
42.5°	3033.7	3072.9	3159.7	3272.6	3442.3	3629.0	3811.7	4028.9	4207.2	4381.0	4502.8
45°	2281.8	2333.8	2446.9	2603.4	2790.2	3007.5	3238.0	3481.3	3694.4	3872.5	4007.2
47.5°	1777.7	1825.4	1938.5	2103.7	2333.8	2560.0	2799.0	3051.0	3272.6	3446.6	3564.0
50°	1403.8	1464.6	1564.6	1738.4	1968.9	2207.9	2455.7	2703.3	2912.0	3059.8	3164.1
52.5°	1104.0	1160.5	1256.0	1438.7	1673.4	1912.4	2142.7	2386.0	2568.5	2712.0	2781.6
55°	856.2	908.5	1008.2	1160.5	1382.2	1616.8	1847.1	2055.9	2225.3	2329.6	2394.9
57.5°	651.9	691.1	760.7	912.7	1112.7	1330.0	1525.6	1734.2	1864.7	1938.5	1981.8
60°	495.6	526.0	599.8	717.2	899.7	1086.6	1251.7	1408.3	1512.6	1573.4	1616.8
62.5°	373.7	408.6	460.6	560.6	699.6	851.8	990.9	1108.2	1195.2	1234.3	1264.8
65°	256.4	282.5	321.6	399.9	517.2	625.7	734.6	821.5	878.0	921.5	938.8
67.5°	191.2	208.6	230.4	291.2	373.7	460.6	534.5	595.4	656.3	673.7	704.1
70°	143.5	156.5	178.1	221.6	269.4	330.2	391.2	426.0	469.5	499.9	508.6
72.5°	91.2	95.5	117.4	143.5	182.5	221.6	260.9	291.2	317.4	334.7	343.3
75°	52.2	78.1	78.1	104.3	130.4	147.7	173.9	195.5	208.6	221.6	221.6
77.5°	34.8	47.8	52.2	65.1	78.1	100.0	121.6	134.7	147.7	152.0	152.0
80°	30.4	34.8	34.8	47.8	56.5	73.9	87.0	91.2	100.0	104.3	113.1
82.5°	13.0	17.4	21.6	34.8	39.1	39.1	52.2	56.5	65.1	69.6	69.6
85°	4.3	8.7	8.7	13.0	21.6	26.1	30.4	34.8	39.1	39.1	43.5
87.5°	4.3	4.3	0.0	4.3	8.7	8.7	17.4	17.4	17.4	26.1	26.1
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: P249080

CATALOG NUMBER: LD8B175D010 ER8B175930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1	8901.1
2.5°	8822.9	8827.2	8809.8	8805.6	8796.8	8801.1	8809.8
5°	8662.1	8666.3	8649.1	8631.7	8631.7	8627.2	8631.7
7.5°	8509.8	8514.3	8488.2	8479.5	8462.1	8466.6	8466.6
10°	8357.8	8357.8	8318.8	8314.3	8301.2	8297.0	8297.0
12.5°	8210.0	8197.0	8166.6	8149.2	8158.0	8131.8	8131.8
15°	8079.6	8058.0	8018.7	8005.7	7984.1	7975.4	7975.4
17.5°	7944.9	7927.6	7892.8	7866.7	7840.6	7836.4	7840.6
20°	7814.5	7797.1	7753.6	7736.4	7714.6	7714.6	7705.9
22.5°	7684.1	7666.7	7627.7	7614.6	7584.2	7584.2	7588.5
25°	7549.4	7536.3	7492.9	7484.2	7480.0	7462.4	7471.2
27.5°	7366.9	7358.1	7323.4	7310.4	7293.0	7288.7	7297.3
30°	7032.1	7019.1	6993.1	6980.1	6949.8	6954.0	6962.6
32.5°	6615.0	6597.6	6562.8	6549.7	6523.8	6515.0	6519.3
35°	6093.5	6080.4	6050.0	6050.0	6023.9	6015.2	6023.9
37.5°	5563.3	5576.2	5563.3	5576.2	5563.3	5558.8	5563.3
40°	5063.4	5111.2	5119.8	5167.7	5150.4	5176.3	5172.1
42.5°	4585.2	4663.5	4694.1	4733.0	4724.5	4741.8	4754.8
45°	4102.7	4168.1	4198.5	4224.6	4228.9	4237.7	4242.0
47.5°	3646.4	3698.6	3703.0	3733.4	3729.1	3729.1	3742.1
50°	3220.6	3255.4	3263.9	3285.8	3268.4	3259.6	3263.9
52.5°	2825.1	2859.8	2851.0	2859.8	2838.1	2829.4	2833.7
55°	2420.8	2438.2	2438.2	2438.2	2412.2	2412.2	2412.2
57.5°	2007.9	2012.4	2003.7	2007.9	2003.7	1977.6	1973.2
60°	1629.9	1629.9	1625.4	1629.9	1616.8	1603.8	1603.8
62.5°	1273.3	1282.1	1299.5	1282.1	1273.3	1282.1	1269.1
65°	952.0	969.2	964.7	973.6	969.2	969.2	960.5
67.5°	717.2	721.5	725.7	730.2	730.2	730.2	730.2
70°	526.0	539.0	534.5	534.5	534.5	534.5	560.6
72.5°	352.1	369.4	365.1	373.7	373.7	382.5	373.7
75°	239.0	256.4	247.7	260.9	256.4	247.7	269.4
77.5°	160.9	169.6	173.9	178.1	173.9	169.6	173.9
80°	113.1	121.6	117.4	121.6	121.6	121.6	126.1
82.5°	69.6	82.6	78.1	82.6	78.1	82.6	82.6
85°	47.8	52.2	43.5	52.2	47.8	47.8	56.5
87.5°	30.4	26.1	26.1	30.4	26.1	30.4	26.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)