

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: P248981

Luminaire Tested: **LD8B175D010 ER8B175827 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248981
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 ER8B175827 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17033.0 lumens
Efficiency: N/A
Efficacy: 96.1 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

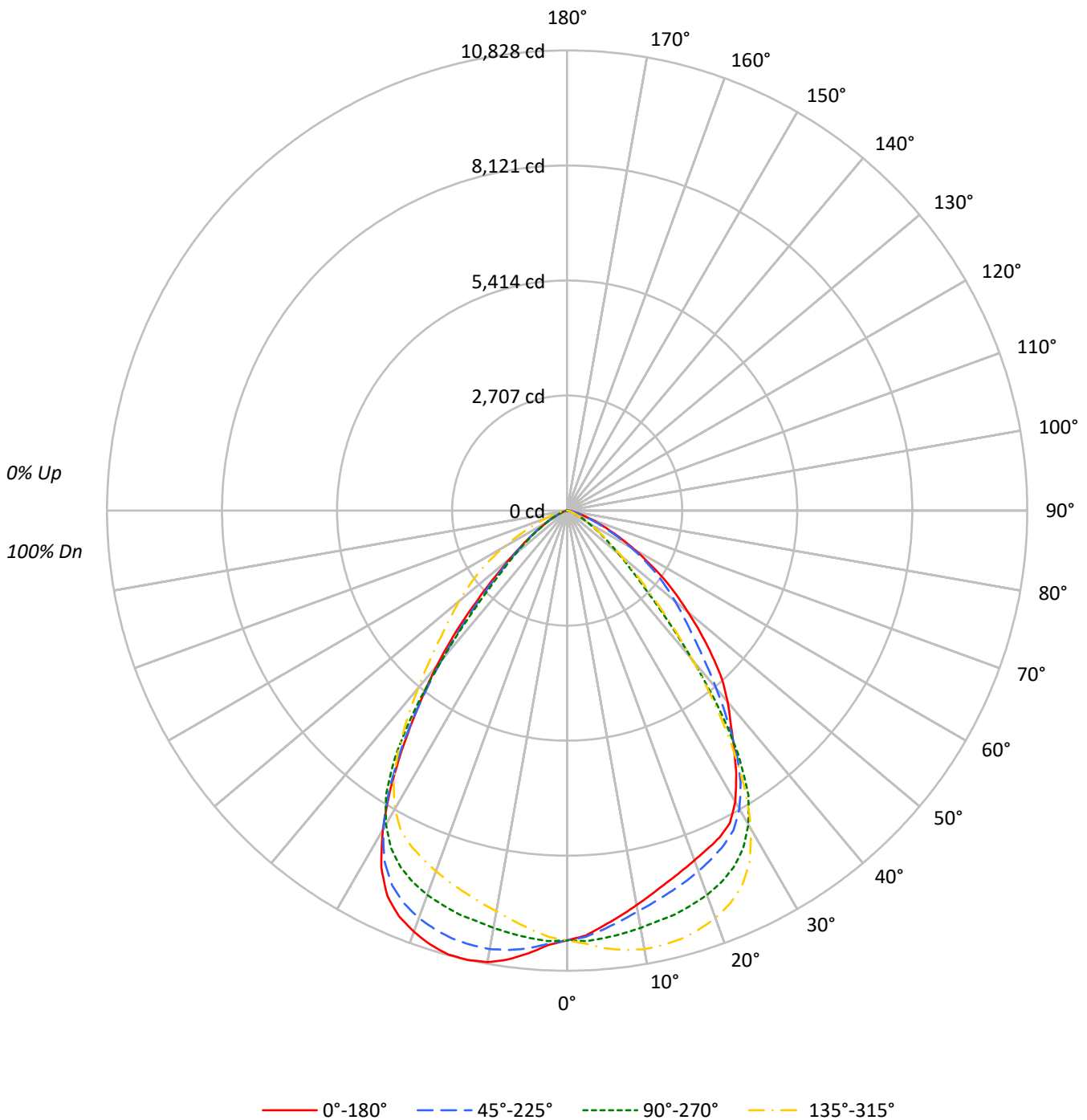
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: LD8B175D010 ER8B175827 8LBSW0MW

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°	311817	311817	311817	311817
5°	303533	312547	323706	312547
10°	295135	312140	337803	312140
15°	289239	313993	345199	313993
20°	287272	315788	346087	315788
25°	288780	315155	340523	315155
30°	281638	303618	309073	303618
35°	257614	264861	251294	264861
40°	236516	184242	192398	184242
45°	210152	112398	130051	112398
50°	177878	75082	83377	75082
55°	147328	51229	54149	51229
60°	112368	34105	34407	34105
65°	79612	21247	19452	21247
70°	57422	14236	12920	14236
75°	36469	7065	5886	7065
80°	25447	5274	4368	5274
85°	22714	0	1734	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	962.5	5.7
10°-20°	2787.1	16.4
20°-30°	4220.3	24.8
30°-40°	4229.8	24.8
40°-50°	2656.1	15.6
50°-60°	1415.4	8.3
60°-70°	582.0	3.4
70°-80°	153.8	0.9
80°-90°	26.0	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°	7969.9	46.8
0°-40°	12199.7	71.6
0°-60°	16271.2	95.5
0°-90°	17033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17033.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	10112	10112	10112	10112	10112	
5°	9806	10097	10458	10097	9806	925
15°	9060	9836	10813	9836	9060	2562
25°	8488	9263	10008	9263	8488	3893
35°	6843	7036	6676	7036	6843	4287
45°	4819	2577	2982	2577	4819	3706
55°	2740	953	1007	953	2740	2443
65°	1091	291	267	291	1091	1132
75°	306	59	49	59	306	347
85°	64	0	5	0	64	71
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°	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0
2.5°	10008.3	9998.3	9993.5	10003.4	10008.3	10028.0	10023.1	10032.9	10032.9	10038.0	10047.7
5°	9805.9	9800.8	9805.9	9805.9	9825.6	9845.3	9840.4	9855.3	9865.0	9889.8	9899.6
7.5°	9618.3	9618.3	9613.2	9632.9	9642.9	9672.6	9667.5	9692.3	9707.1	9731.7	9766.3
10°	9425.6	9425.6	9430.5	9445.4	9450.4	9494.7	9494.7	9529.3	9549.0	9573.8	9618.3
12.5°	9238.1	9238.1	9267.7	9257.8	9277.5	9312.0	9326.9	9361.4	9391.1	9440.5	9485.0
15°	9060.2	9060.2	9070.2	9094.8	9109.6	9154.1	9178.7	9218.3	9252.9	9302.3	9366.5
17.5°	8907.2	8902.3	8907.2	8936.9	8966.5	9006.0	9025.7	9075.1	9109.6	9173.8	9233.2
20°	8754.2	8764.1	8764.1	8788.7	8808.4	8857.8	8877.5	8932.0	8971.4	9030.6	9099.9
22.5°	8620.8	8616.0	8616.0	8650.5	8665.4	8709.7	8729.4	8778.8	8823.3	8872.7	8936.9
25°	8487.5	8477.6	8497.5	8502.4	8512.1	8561.5	8576.3	8610.9	8655.4	8699.9	8764.1
27.5°	8290.0	8280.2	8285.1	8304.8	8319.7	8359.1	8369.0	8403.6	8438.1	8477.6	8532.0
30°	7909.7	7900.0	7895.1	7929.7	7944.5	7974.0	7988.8	8048.1	8057.9	8102.4	8141.8
32.5°	7406.1	7401.3	7411.2	7440.7	7455.5	7495.2	7514.9	7549.4	7574.0	7598.8	7638.2
35°	6843.4	6833.4	6843.4	6873.1	6873.1	6907.6	6922.4	6937.1	6932.2	6937.1	6927.3
37.5°	6320.1	6315.0	6320.1	6334.7	6320.1	6334.7	6320.1	6290.4	6236.1	6176.8	6117.5
40°	5875.6	5880.5	5851.0	5870.7	5816.3	5806.5	5752.2	5678.1	5569.5	5451.1	5283.2
42.5°	5401.7	5386.8	5367.1	5376.9	5332.6	5297.8	5209.0	5115.3	4976.9	4779.6	4577.0
45°	4819.0	4814.1	4804.2	4799.3	4769.6	4735.1	4660.9	4552.4	4399.3	4196.9	3954.9
47.5°	4251.2	4236.3	4236.3	4241.2	4206.7	4201.8	4142.5	4048.8	3915.4	3717.9	3466.1
50°	3707.9	3703.1	3713.0	3732.7	3707.9	3698.2	3658.8	3594.5	3476.1	3308.2	3071.0
52.5°	3219.2	3214.3	3224.3	3248.8	3238.9	3248.8	3209.4	3160.0	3081.0	2918.0	2710.7
55°	2740.4	2740.4	2740.4	2769.8	2769.8	2769.8	2750.1	2720.7	2646.5	2528.0	2335.5
57.5°	2241.6	2246.5	2276.2	2281.1	2276.2	2286.1	2281.1	2251.4	2202.2	2118.3	1970.1
60°	1822.0	1822.0	1836.8	1851.6	1846.6	1851.6	1851.6	1836.8	1787.4	1718.3	1599.8
62.5°	1441.7	1456.6	1446.6	1456.6	1476.3	1456.6	1446.6	1436.8	1402.3	1357.8	1259.0
65°	1091.1	1101.1	1101.1	1106.0	1096.0	1101.1	1081.4	1066.6	1046.8	997.5	933.2
67.5°	829.6	829.6	829.6	829.6	824.5	819.6	814.8	799.9	765.4	745.7	676.4
70°	636.9	607.3	607.3	607.3	607.3	612.3	597.5	577.8	567.8	533.3	483.9
72.5°	424.5	434.5	424.5	424.5	414.8	419.7	400.0	390.0	380.2	360.5	330.9
75°	306.1	281.5	291.2	296.3	281.5	291.2	271.5	251.8	251.8	237.0	222.1
77.5°	197.5	192.7	197.5	202.4	197.5	192.7	182.7	172.7	172.7	167.9	153.0
80°	143.3	138.2	138.2	138.2	133.3	138.2	128.4	128.4	118.5	113.6	103.6
82.5°	93.9	93.9	88.8	93.9	88.8	93.9	79.1	79.1	79.1	74.0	64.2
85°	64.2	54.3	54.3	59.3	49.4	59.3	54.3	49.4	44.5	44.5	39.4
87.5°	29.7	34.5	29.7	34.5	29.7	29.7	34.5	29.7	29.7	19.7	19.7
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: P248981

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0
2.5°	10062.6	10067.4	10067.4	10087.4	10097.1	10102.0	10102.0	10141.6	10126.8	10136.7	10146.5
5°	9919.5	9949.0	9958.9	9958.9	10013.2	10032.9	10052.6	10097.1	10102.0	10131.7	10166.2
7.5°	9781.1	9815.6	9835.6	9879.9	9914.4	9949.0	10008.3	10038.0	10067.4	10107.1	10151.4
10°	9647.8	9687.4	9726.8	9761.4	9815.6	9860.1	9899.6	9968.7	10003.4	10057.7	10116.8
12.5°	9519.5	9573.8	9608.3	9667.5	9726.8	9766.3	9825.6	9889.8	9944.1	9998.3	10067.4
15°	9405.9	9470.1	9509.6	9573.8	9638.0	9692.3	9756.5	9835.6	9875.0	9939.2	10003.4
17.5°	9282.4	9351.7	9401.1	9460.2	9539.2	9598.4	9652.9	9731.7	9781.1	9850.2	9924.4
20°	9154.1	9223.2	9282.4	9341.7	9420.8	9479.9	9544.1	9623.2	9677.4	9746.5	9805.9
22.5°	9001.1	9065.3	9129.3	9198.4	9277.5	9326.9	9401.1	9470.1	9529.3	9593.5	9652.9
25°	8803.6	8882.6	8932.0	8996.0	9060.2	9114.5	9193.6	9262.7	9312.0	9371.4	9425.6
27.5°	8571.5	8630.8	8670.2	8724.5	8788.7	8838.1	8897.2	8966.5	9015.9	9070.2	9109.6
30°	8176.4	8230.8	8265.4	8304.8	8369.0	8413.6	8462.9	8527.0	8561.5	8601.1	8635.7
32.5°	7657.9	7702.4	7722.2	7751.8	7796.3	7840.6	7880.3	7934.5	7949.4	7974.0	7974.0
35°	6907.6	6917.4	6912.5	6922.4	6942.2	6966.8	7001.3	7035.9	7055.6	7055.6	7040.9
37.5°	6028.6	5969.5	5905.3	5855.9	5841.1	5831.1	5851.0	5865.6	5885.6	5895.3	5870.7
40°	5115.3	4982.0	4838.7	4710.3	4621.5	4582.0	4567.2	4577.0	4577.0	4611.5	4611.5
42.5°	4330.2	4122.7	3910.6	3717.9	3589.5	3490.9	3446.4	3446.4	3451.3	3476.1	3490.9
45°	3678.5	3416.7	3169.8	2957.6	2779.8	2651.3	2592.2	2577.4	2572.5	2582.3	2616.8
47.5°	3179.7	2908.2	2651.3	2389.8	2202.2	2073.8	2019.5	1999.6	1979.9	1999.6	2004.7
50°	2789.7	2508.3	2236.8	1975.0	1777.5	1663.9	1594.8	1565.1	1560.2	1560.2	1570.2
52.5°	2434.1	2172.5	1901.0	1634.4	1426.9	1318.4	1254.1	1239.3	1219.6	1239.3	1239.3
55°	2098.4	1836.8	1570.2	1318.4	1145.4	1032.0	972.7	952.9	943.0	957.8	957.8
57.5°	1733.2	1510.8	1264.1	1036.9	864.1	785.1	740.6	716.0	710.9	720.9	710.9
60°	1422.0	1234.4	1022.0	814.8	681.4	597.5	562.9	553.0	543.0	553.0	553.0
62.5°	1125.7	967.8	794.8	636.9	523.3	464.2	424.5	424.5	419.7	419.7	424.5
65°	834.5	710.9	587.5	454.2	365.4	320.9	291.2	291.2	286.4	291.2	286.4
67.5°	607.3	523.3	424.5	330.9	261.8	237.0	217.3	202.4	212.4	202.4	197.5
70°	444.5	375.2	306.1	251.8	202.4	177.8	163.0	157.9	148.2	148.2	148.2
72.5°	296.3	251.8	207.3	163.0	133.3	108.5	103.6	93.9	83.9	88.8	98.8
75°	197.5	167.9	148.2	118.5	88.8	88.8	59.3	59.3	49.4	59.3	44.5
77.5°	138.2	113.6	88.8	74.0	59.3	54.3	39.4	39.4	34.5	34.5	34.5
80°	98.8	83.9	64.2	54.3	39.4	39.4	34.5	29.7	24.6	24.6	29.7
82.5°	59.3	44.5	44.5	39.4	24.6	19.7	14.8	19.7	10.0	10.0	10.0
85°	34.5	29.7	24.6	14.8	10.0	10.0	4.9	0.0	4.9	4.9	0.0
87.5°	19.7	10.0	10.0	4.9	0.0	4.9	4.9	0.0	0.0	0.0	10.0
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: P248981

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0
2.5°	10171.3	10166.2	10176.2	10176.2	10205.8	10200.8	10215.6	10215.6	10205.8	10210.7	10230.4
5°	10205.8	10220.7	10250.1	10274.9	10319.2	10339.2	10363.8	10388.5	10393.4	10408.3	10423.1
7.5°	10205.8	10255.2	10289.8	10334.1	10393.4	10428.0	10482.2	10526.7	10546.5	10571.1	10600.7
10°	10185.9	10235.3	10299.5	10348.9	10423.1	10477.4	10531.6	10600.7	10630.4	10669.8	10709.5
12.5°	10146.5	10200.8	10269.9	10334.1	10418.0	10467.4	10536.5	10600.7	10645.2	10699.5	10744.0
15°	10087.4	10151.4	10215.6	10279.8	10368.6	10428.0	10492.2	10566.2	10610.7	10669.8	10709.5
17.5°	9993.5	10062.6	10121.9	10181.1	10265.0	10334.1	10393.4	10462.5	10507.0	10556.4	10610.7
20°	9879.9	9944.1	10008.3	10057.7	10141.6	10200.8	10265.0	10329.2	10363.8	10373.7	10457.6
22.5°	9736.8	9781.1	9830.5	9909.5	9958.9	10013.2	10072.5	10131.7	10166.2	10220.7	10250.1
25°	9499.6	9544.1	9598.4	9632.9	9692.3	9736.8	9795.9	9860.1	9879.9	9919.5	9949.0
27.5°	9169.0	9193.6	9218.3	9247.8	9282.4	9307.2	9341.7	9371.4	9391.1	9410.8	9430.5
30°	8645.4	8645.4	8645.4	8625.7	8640.6	8655.4	8660.3	8655.4	8655.4	8650.5	8650.5
32.5°	7954.3	7914.8	7870.3	7830.9	7816.1	7796.3	7786.4	7771.5	7747.0	7732.1	7737.0
35°	7021.0	6932.2	6877.9	6828.6	6789.1	6759.5	6744.6	6729.8	6724.9	6705.2	6685.3
37.5°	5855.9	5791.7	5752.2	5722.6	5688.0	5658.4	5663.2	5668.3	5682.9	5673.2	5678.1
40°	4621.5	4606.6	4621.5	4586.9	4577.0	4586.9	4611.5	4646.3	4666.0	4685.7	4720.2
42.5°	3515.5	3540.1	3574.8	3574.8	3589.5	3609.4	3638.8	3693.3	3722.8	3757.3	3797.0
45°	2646.5	2676.1	2720.7	2735.3	2745.2	2769.8	2804.6	2848.9	2868.6	2898.3	2932.8
47.5°	2039.2	2058.9	2083.5	2108.3	2132.9	2142.9	2177.4	2177.4	2202.2	2221.9	2231.7
50°	1589.9	1609.6	1629.3	1644.1	1654.1	1668.9	1678.7	1693.5	1698.4	1708.4	1713.2
52.5°	1244.2	1269.0	1269.0	1278.7	1293.6	1308.4	1303.5	1308.4	1313.3	1313.3	1328.1
55°	972.7	972.7	987.5	987.5	997.5	992.4	997.5	997.5	997.5	997.5	1002.3
57.5°	725.7	730.8	745.7	735.7	730.8	740.6	730.8	740.6	735.7	745.7	730.8
60°	557.9	557.9	562.9	562.9	567.8	567.8	567.8	562.9	562.9	557.9	557.9
62.5°	419.7	424.5	429.6	424.5	424.5	424.5	419.7	419.7	414.8	409.7	409.7
65°	281.5	276.6	286.4	276.6	281.5	281.5	276.6	281.5	266.6	271.5	266.6
67.5°	202.4	197.5	192.7	197.5	192.7	187.6	187.6	192.7	197.5	182.7	182.7
70°	133.3	138.2	133.3	138.2	143.3	143.3	138.2	133.3	138.2	128.4	133.3
72.5°	83.9	83.9	83.9	83.9	83.9	88.8	88.8	88.8	79.1	79.1	74.0
75°	39.4	54.3	44.5	39.4	54.3	54.3	49.4	49.4	44.5	44.5	44.5
77.5°	39.4	29.7	29.7	29.7	29.7	29.7	29.7	29.7	24.6	29.7	24.6
80°	19.7	19.7	19.7	14.8	19.7	19.7	24.6	19.7	19.7	14.8	24.6
82.5°	10.0	10.0	10.0	0.0	4.9	10.0	10.0	4.9	10.0	10.0	4.9
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: P248981

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0
2.5°	10225.6	10220.7	10225.6	10230.4	10225.6	10220.7	10225.6	10230.4	10210.7	10205.8	10215.6
5°	10442.8	10442.8	10452.6	10457.6	10452.6	10442.8	10442.8	10423.1	10408.3	10393.4	10388.5
7.5°	10630.4	10640.4	10650.1	10655.0	10650.1	10640.4	10630.4	10600.7	10571.1	10546.5	10526.7
10°	10744.0	10758.8	10778.5	10788.3	10778.5	10758.8	10744.0	10709.5	10669.8	10630.4	10600.7
12.5°	10793.4	10808.2	10832.8	10827.9	10832.8	10808.2	10793.4	10744.0	10699.5	10645.2	10600.7
15°	10758.8	10778.5	10803.1	10813.1	10803.1	10778.5	10758.8	10709.5	10669.8	10610.7	10566.2
17.5°	10650.1	10679.8	10694.6	10709.5	10694.6	10679.8	10650.1	10610.7	10556.4	10507.0	10462.5
20°	10502.0	10521.9	10541.6	10546.5	10541.6	10521.9	10502.0	10457.6	10373.7	10363.8	10329.2
22.5°	10289.8	10304.6	10348.9	10334.1	10348.9	10304.6	10289.8	10250.1	10220.7	10166.2	10131.7
25°	9983.5	9998.3	10003.4	10008.3	10003.4	9998.3	9983.5	9949.0	9919.5	9879.9	9860.1
27.5°	9455.3	9455.3	9465.1	9470.1	9465.1	9455.3	9455.3	9430.5	9410.8	9391.1	9371.4
30°	8655.4	8655.4	8655.4	8680.2	8655.4	8655.4	8655.4	8650.5	8650.5	8655.4	8655.4
32.5°	7732.1	7722.2	7712.4	7722.2	7712.4	7722.2	7732.1	7737.0	7732.1	7747.0	7771.5
35°	6685.3	6680.4	6695.2	6675.5	6695.2	6680.4	6685.3	6685.3	6705.2	6724.9	6729.8
37.5°	5682.9	5673.2	5692.9	5673.2	5692.9	5673.2	5682.9	5678.1	5673.2	5682.9	5668.3
40°	4730.2	4740.0	4740.0	4779.6	4740.0	4740.0	4730.2	4720.2	4685.7	4666.0	4646.3
42.5°	3816.7	3846.3	3836.4	3866.1	3836.4	3846.3	3816.7	3797.0	3757.3	3722.8	3693.3
45°	2952.5	2972.5	2972.5	2982.2	2972.5	2972.5	2952.5	2932.8	2898.3	2868.6	2848.9
47.5°	2266.2	2266.2	2266.2	2271.3	2266.2	2266.2	2266.2	2231.7	2221.9	2202.2	2177.4
50°	1723.2	1728.1	1733.2	1738.0	1733.2	1728.1	1723.2	1713.2	1708.4	1698.4	1693.5
52.5°	1323.2	1328.1	1318.4	1328.1	1318.4	1328.1	1323.2	1328.1	1313.3	1313.3	1308.4
55°	1002.3	997.5	1002.3	1007.2	1002.3	997.5	1002.3	1002.3	997.5	997.5	997.5
57.5°	735.7	725.7	725.7	725.7	725.7	725.7	735.7	730.8	745.7	735.7	740.6
60°	548.1	553.0	553.0	557.9	553.0	553.0	548.1	557.9	557.9	562.9	562.9
62.5°	404.8	419.7	409.7	419.7	409.7	419.7	404.8	409.7	409.7	414.8	419.7
65°	261.8	261.8	261.8	266.6	261.8	261.8	261.8	266.6	271.5	266.6	281.5
67.5°	177.8	182.7	192.7	187.6	192.7	182.7	177.8	182.7	182.7	197.5	192.7
70°	143.3	128.4	128.4	143.3	128.4	128.4	143.3	133.3	128.4	138.2	133.3
72.5°	83.9	74.0	83.9	83.9	83.9	74.0	83.9	74.0	79.1	79.1	88.8
75°	44.5	39.4	34.5	49.4	34.5	39.4	44.5	44.5	44.5	44.5	49.4
77.5°	29.7	24.6	34.5	34.5	34.5	24.6	29.7	24.6	29.7	24.6	29.7
80°	14.8	19.7	14.8	24.6	14.8	19.7	14.8	24.6	14.8	19.7	19.7
82.5°	4.9	10.0	10.0	10.0	10.0	10.0	4.9	4.9	10.0	10.0	4.9
85°	0.0	10.0	4.9	4.9	4.9	10.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	0.0	0.0	4.9	0.0	0.0	4.9	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: P248981

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0
2.5°	10215.6	10200.8	10205.8	10176.2	10176.2	10166.2	10171.3	10146.5	10136.7	10126.8	10141.6
5°	10363.8	10339.2	10319.2	10274.9	10250.1	10220.7	10205.8	10166.2	10131.7	10102.0	10097.1
7.5°	10482.2	10428.0	10393.4	10334.1	10289.8	10255.2	10205.8	10151.4	10107.1	10067.4	10038.0
10°	10531.6	10477.4	10423.1	10348.9	10299.5	10235.3	10185.9	10116.8	10057.7	10003.4	9968.7
12.5°	10536.5	10467.4	10418.0	10334.1	10269.9	10200.8	10146.5	10067.4	9998.3	9944.1	9889.8
15°	10492.2	10428.0	10368.6	10279.8	10215.6	10151.4	10087.4	10003.4	9939.2	9875.0	9835.6
17.5°	10393.4	10334.1	10265.0	10181.1	10121.9	10062.6	9993.5	9924.4	9850.2	9781.1	9731.7
20°	10265.0	10200.8	10141.6	10057.7	10008.3	9944.1	9879.9	9805.9	9746.5	9677.4	9623.2
22.5°	10072.5	10013.2	9958.9	9909.5	9830.5	9781.1	9736.8	9652.9	9593.5	9529.3	9470.1
25°	9795.9	9736.8	9692.3	9632.9	9598.4	9544.1	9499.6	9425.6	9371.4	9312.0	9262.7
27.5°	9341.7	9307.2	9282.4	9247.8	9218.3	9193.6	9169.0	9109.6	9070.2	9015.9	8966.5
30°	8660.3	8655.4	8640.6	8625.7	8645.4	8645.4	8645.4	8635.7	8601.1	8561.5	8527.0
32.5°	7786.4	7796.3	7816.1	7830.9	7870.3	7914.8	7954.3	7974.0	7974.0	7949.4	7934.5
35°	6744.6	6759.5	6789.1	6828.6	6877.9	6932.2	7021.0	7040.9	7055.6	7055.6	7035.9
37.5°	5663.2	5658.4	5688.0	5722.6	5752.2	5791.7	5855.9	5870.7	5895.3	5885.6	5865.6
40°	4611.5	4586.9	4577.0	4586.9	4621.5	4606.6	4621.5	4611.5	4611.5	4577.0	4577.0
42.5°	3638.8	3609.4	3589.5	3574.8	3574.8	3540.1	3515.5	3490.9	3476.1	3451.3	3446.4
45°	2804.6	2769.8	2745.2	2735.3	2720.7	2676.1	2646.5	2616.8	2582.3	2572.5	2577.4
47.5°	2177.4	2142.9	2132.9	2108.3	2083.5	2058.9	2039.2	2004.7	1999.6	1979.9	1999.6
50°	1678.7	1668.9	1654.1	1644.1	1629.3	1609.6	1589.9	1570.2	1560.2	1560.2	1565.1
52.5°	1303.5	1308.4	1293.6	1278.7	1269.0	1269.0	1244.2	1239.3	1239.3	1219.6	1239.3
55°	997.5	992.4	997.5	987.5	987.5	972.7	972.7	957.8	957.8	943.0	952.9
57.5°	730.8	740.6	730.8	735.7	745.7	730.8	725.7	710.9	720.9	710.9	716.0
60°	567.8	567.8	567.8	562.9	562.9	557.9	557.9	553.0	553.0	543.0	553.0
62.5°	419.7	424.5	424.5	424.5	429.6	424.5	419.7	424.5	419.7	419.7	424.5
65°	276.6	281.5	281.5	276.6	286.4	276.6	281.5	286.4	291.2	286.4	291.2
67.5°	187.6	187.6	192.7	197.5	192.7	197.5	202.4	197.5	202.4	212.4	202.4
70°	138.2	143.3	143.3	138.2	133.3	138.2	133.3	148.2	148.2	148.2	157.9
72.5°	88.8	88.8	83.9	83.9	83.9	83.9	83.9	98.8	88.8	83.9	93.9
75°	49.4	54.3	54.3	39.4	44.5	54.3	39.4	44.5	59.3	49.4	59.3
77.5°	29.7	29.7	29.7	29.7	29.7	29.7	39.4	34.5	34.5	34.5	39.4
80°	24.6	19.7	19.7	14.8	19.7	19.7	19.7	29.7	24.6	24.6	29.7
82.5°	10.0	10.0	4.9	0.0	10.0	10.0	10.0	10.0	10.0	10.0	19.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	4.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	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: P248981

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0
2.5°	10102.0	10102.0	10097.1	10087.4	10067.4	10067.4	10062.6	10047.7	10038.0	10032.9	10032.9
5°	10052.6	10032.9	10013.2	9958.9	9958.9	9949.0	9919.5	9899.6	9889.8	9865.0	9855.3
7.5°	10008.3	9949.0	9914.4	9879.9	9835.6	9815.6	9781.1	9766.3	9731.7	9707.1	9692.3
10°	9899.6	9860.1	9815.6	9761.4	9726.8	9687.4	9647.8	9618.3	9573.8	9549.0	9529.3
12.5°	9825.6	9766.3	9726.8	9667.5	9608.3	9573.8	9519.5	9485.0	9440.5	9391.1	9361.4
15°	9756.5	9692.3	9638.0	9573.8	9509.6	9470.1	9405.9	9366.5	9302.3	9252.9	9218.3
17.5°	9652.9	9598.4	9539.2	9460.2	9401.1	9351.7	9282.4	9233.2	9173.8	9109.6	9075.1
20°	9544.1	9479.9	9420.8	9341.7	9282.4	9223.2	9154.1	9099.9	9030.6	8971.4	8932.0
22.5°	9401.1	9326.9	9277.5	9198.4	9129.3	9065.3	9001.1	8936.9	8872.7	8823.3	8778.8
25°	9193.6	9114.5	9060.2	8996.0	8932.0	8882.6	8803.6	8764.1	8699.9	8655.4	8610.9
27.5°	8897.2	8838.1	8788.7	8724.5	8670.2	8630.8	8571.5	8532.0	8477.6	8438.1	8403.6
30°	8462.9	8413.6	8369.0	8304.8	8265.4	8230.8	8176.4	8141.8	8102.4	8057.9	8048.1
32.5°	7880.3	7840.6	7796.3	7751.8	7722.2	7702.4	7657.9	7638.2	7598.8	7574.0	7549.4
35°	7001.3	6966.8	6942.2	6922.4	6912.5	6917.4	6907.6	6927.3	6937.1	6932.2	6937.1
37.5°	5851.0	5831.1	5841.1	5855.9	5905.3	5969.5	6028.6	6117.5	6176.8	6236.1	6290.4
40°	4567.2	4582.0	4621.5	4710.3	4838.7	4982.0	5115.3	5283.2	5451.1	5569.5	5678.1
42.5°	3446.4	3490.9	3589.5	3717.9	3910.6	4122.7	4330.2	4577.0	4779.6	4976.9	5115.3
45°	2592.2	2651.3	2779.8	2957.6	3169.8	3416.7	3678.5	3954.9	4196.9	4399.3	4552.4
47.5°	2019.5	2073.8	2202.2	2389.8	2651.3	2908.2	3179.7	3466.1	3717.9	3915.4	4048.8
50°	1594.8	1663.9	1777.5	1975.0	2236.8	2508.3	2789.7	3071.0	3308.2	3476.1	3594.5
52.5°	1254.1	1318.4	1426.9	1634.4	1901.0	2172.5	2434.1	2710.7	2918.0	3081.0	3160.0
55°	972.7	1032.0	1145.4	1318.4	1570.2	1836.8	2098.4	2335.5	2528.0	2646.5	2720.7
57.5°	740.6	785.1	864.1	1036.9	1264.1	1510.8	1733.2	1970.1	2118.3	2202.2	2251.4
60°	562.9	597.5	681.4	814.8	1022.0	1234.4	1422.0	1599.8	1718.3	1787.4	1836.8
62.5°	424.5	464.2	523.3	636.9	794.8	967.8	1125.7	1259.0	1357.8	1402.3	1436.8
65°	291.2	320.9	365.4	454.2	587.5	710.9	834.5	933.2	997.5	1046.8	1066.6
67.5°	217.3	237.0	261.8	330.9	424.5	523.3	607.3	676.4	745.7	765.4	799.9
70°	163.0	177.8	202.4	251.8	306.1	375.2	444.5	483.9	533.3	567.8	577.8
72.5°	103.6	108.5	133.3	163.0	207.3	251.8	296.3	330.9	360.5	380.2	390.0
75°	59.3	88.8	88.8	118.5	148.2	167.9	197.5	222.1	237.0	251.8	251.8
77.5°	39.4	54.3	59.3	74.0	88.8	113.6	138.2	153.0	167.9	172.7	172.7
80°	34.5	39.4	39.4	54.3	64.2	83.9	98.8	103.6	113.6	118.5	128.4
82.5°	14.8	19.7	24.6	39.4	44.5	44.5	59.3	64.2	74.0	79.1	79.1
85°	4.9	10.0	10.0	14.8	24.6	29.7	34.5	39.4	44.5	44.5	49.4
87.5°	4.9	4.9	0.0	4.9	10.0	10.0	19.7	19.7	19.7	29.7	29.7
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: P248981

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0	10112.0
2.5°	10023.1	10028.0	10008.3	10003.4	9993.5	9998.3	10008.3
5°	9840.4	9845.3	9825.6	9805.9	9805.9	9800.8	9805.9
7.5°	9667.5	9672.6	9642.9	9632.9	9613.2	9618.3	9618.3
10°	9494.7	9494.7	9450.4	9445.4	9430.5	9425.6	9425.6
12.5°	9326.9	9312.0	9277.5	9257.8	9267.7	9238.1	9238.1
15°	9178.7	9154.1	9109.6	9094.8	9070.2	9060.2	9060.2
17.5°	9025.7	9006.0	8966.5	8936.9	8907.2	8902.3	8907.2
20°	8877.5	8857.8	8808.4	8788.7	8764.1	8764.1	8754.2
22.5°	8729.4	8709.7	8665.4	8650.5	8616.0	8616.0	8620.8
25°	8576.3	8561.5	8512.1	8502.4	8497.5	8477.6	8487.5
27.5°	8369.0	8359.1	8319.7	8304.8	8285.1	8280.2	8290.0
30°	7988.8	7974.0	7944.5	7929.7	7895.1	7900.0	7909.7
32.5°	7514.9	7495.2	7455.5	7440.7	7411.2	7401.3	7406.1
35°	6922.4	6907.6	6873.1	6873.1	6843.4	6833.4	6843.4
37.5°	6320.1	6334.7	6320.1	6334.7	6320.1	6315.0	6320.1
40°	5752.2	5806.5	5816.3	5870.7	5851.0	5880.5	5875.6
42.5°	5209.0	5297.8	5332.6	5376.9	5367.1	5386.8	5401.7
45°	4660.9	4735.1	4769.6	4799.3	4804.2	4814.1	4819.0
47.5°	4142.5	4201.8	4206.7	4241.2	4236.3	4236.3	4251.2
50°	3658.8	3698.2	3707.9	3732.7	3713.0	3703.1	3707.9
52.5°	3209.4	3248.8	3238.9	3248.8	3224.3	3214.3	3219.2
55°	2750.1	2769.8	2769.8	2769.8	2740.4	2740.4	2740.4
57.5°	2281.1	2286.1	2276.2	2281.1	2276.2	2246.5	2241.6
60°	1851.6	1851.6	1846.6	1851.6	1836.8	1822.0	1822.0
62.5°	1446.6	1456.6	1476.3	1456.6	1446.6	1456.6	1441.7
65°	1081.4	1101.1	1096.0	1106.0	1101.1	1101.1	1091.1
67.5°	814.8	819.6	824.5	829.6	829.6	829.6	829.6
70°	597.5	612.3	607.3	607.3	607.3	607.3	636.9
72.5°	400.0	419.7	414.8	424.5	424.5	434.5	424.5
75°	271.5	291.2	281.5	296.3	291.2	281.5	306.1
77.5°	182.7	192.7	197.5	202.4	197.5	192.7	197.5
80°	128.4	138.2	133.3	138.2	138.2	138.2	143.3
82.5°	79.1	93.9	88.8	93.9	88.8	93.9	93.9
85°	54.3	59.3	49.4	59.3	54.3	54.3	64.2
87.5°	34.5	29.7	29.7	34.5	29.7	34.5	29.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)