

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: P248683

Luminaire Tested: **LD8B150D010 ER8B150840 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248683
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: LD8B150D010 ER8B150840 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16004.0 lumens
Efficiency: N/A
Efficacy: 101.0 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

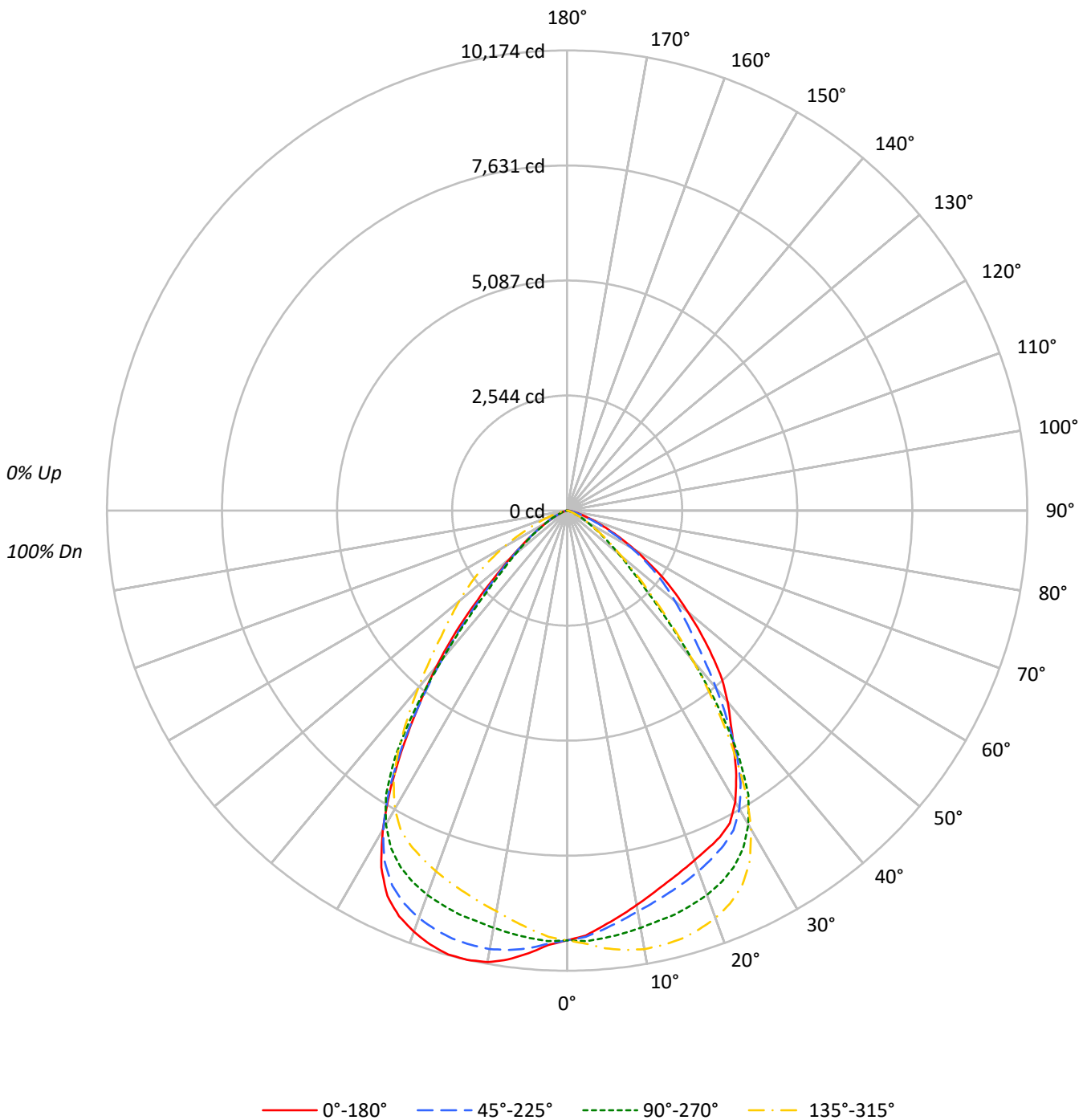
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	292979	292979	292979	292979
5°	285196	293665	304152	293665
10°	277305	293281	317397	293281
15°	271767	295023	324346	295023
20°	269916	296710	325177	296710
25°	271335	296115	319953	296115
30°	264625	285274	290401	285274
35°	242052	248858	236112	248858
40°	222226	173112	180772	173112
45°	197458	105608	122193	105608
50°	167132	70544	78340	70544
55°	138425	48138	50880	48138
60°	105577	32045	32329	32045
65°	74804	19963	18278	19963
70°	53951	13380	12135	13380
75°	34265	6648	5528	6648
80°	23902	4954	4102	4954
85°	21335	0	1628	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	904.3	5.7
10°-20°	2618.7	16.4
20°-30°	3965.3	24.8
30°-40°	3974.2	24.8
40°-50°	2495.6	15.6
50°-60°	1329.9	8.3
60°-70°	546.9	3.4
70°-80°	144.5	0.9
80°-90°	24.4	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°	7488.4	46.8
0°-40°	11462.7	71.6
0°-60°	15288.2	95.5
0°-90°	16004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16004.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9501	9501	9501	9501	9501	
5°	9214	9487	9826	9487	9214	869
15°	8513	9241	10160	9241	8513	2408
25°	7975	8703	9404	8703	7975	3658
35°	6430	6611	6272	6611	6430	4028
45°	4528	2422	2802	2422	4528	3482
55°	2575	895	946	895	2575	2296
65°	1025	274	250	274	1025	1063
75°	288	56	46	56	288	326
85°	60	0	5	0	60	66
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°	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1
2.5°	9403.7	9394.3	9389.7	9399.1	9403.7	9422.2	9417.6	9426.8	9426.8	9431.6	9440.7
5°	9213.5	9208.7	9213.5	9213.5	9232.0	9250.5	9246.0	9259.9	9269.1	9292.4	9301.5
7.5°	9037.2	9037.2	9032.5	9051.0	9060.3	9088.2	9083.5	9106.7	9120.7	9143.8	9176.3
10°	8856.2	8856.2	8860.8	8874.7	8879.5	8921.1	8921.1	8953.6	8972.1	8995.4	9037.2
12.5°	8680.0	8680.0	8707.8	8698.5	8717.0	8749.5	8763.4	8795.9	8823.8	8870.2	8912.0
15°	8512.9	8512.9	8522.2	8545.3	8559.3	8601.1	8624.2	8661.4	8693.9	8740.3	8800.7
17.5°	8369.1	8364.5	8369.1	8397.0	8424.9	8461.9	8480.4	8526.8	8559.3	8619.6	8675.4
20°	8225.3	8234.7	8234.7	8257.8	8276.3	8322.7	8341.2	8392.4	8429.4	8485.0	8550.1
22.5°	8100.0	8095.5	8095.5	8127.9	8141.9	8183.5	8202.0	8248.4	8290.2	8336.6	8397.0
25°	7974.8	7965.4	7984.1	7988.7	7997.9	8044.3	8058.2	8090.7	8132.5	8174.3	8234.7
27.5°	7789.2	7780.0	7784.6	7803.1	7817.1	7854.1	7863.5	7895.9	7928.4	7965.4	8016.6
30°	7431.9	7422.7	7418.2	7450.6	7464.6	7492.2	7506.2	7561.9	7571.1	7612.9	7650.0
32.5°	6958.7	6954.1	6963.5	6991.2	7005.1	7042.4	7060.9	7093.3	7116.4	7139.7	7176.8
35°	6430.0	6420.6	6430.0	6457.8	6457.8	6490.3	6504.2	6518.0	6513.4	6518.0	6508.8
37.5°	5938.3	5933.5	5938.3	5952.0	5938.3	5952.0	5938.3	5910.4	5859.4	5803.6	5747.9
40°	5520.6	5525.2	5497.5	5516.1	5464.9	5455.7	5404.7	5335.0	5233.1	5121.7	4964.0
42.5°	5075.3	5061.4	5042.9	5052.0	5010.4	4977.8	4894.3	4806.3	4676.3	4490.8	4300.5
45°	4527.9	4523.3	4513.9	4509.4	4481.5	4449.0	4379.3	4277.4	4133.6	3943.4	3715.9
47.5°	3994.4	3980.4	3980.4	3985.0	3952.5	3948.0	3892.2	3804.2	3678.9	3493.3	3256.7
50°	3483.9	3479.4	3488.7	3507.2	3483.9	3474.8	3437.7	3377.4	3266.1	3108.3	2885.5
52.5°	3024.7	3020.1	3029.5	3052.6	3043.2	3052.6	3015.5	2969.1	2894.9	2741.7	2546.9
55°	2574.8	2574.8	2574.8	2602.5	2602.5	2602.5	2584.0	2556.3	2486.6	2375.3	2194.4
57.5°	2106.2	2110.8	2138.7	2143.3	2138.7	2148.0	2143.3	2115.4	2069.2	1990.3	1851.1
60°	1711.9	1711.9	1725.8	1739.8	1735.0	1739.8	1739.8	1725.8	1679.4	1614.5	1503.2
62.5°	1354.6	1368.6	1359.2	1368.6	1387.1	1368.6	1359.2	1350.0	1317.6	1275.8	1183.0
65°	1025.2	1034.6	1034.6	1039.2	1029.8	1034.6	1016.1	1002.1	983.6	937.2	876.9
67.5°	779.5	779.5	779.5	779.5	774.7	770.1	765.5	751.6	719.1	700.6	635.5
70°	598.4	570.6	570.6	570.6	570.6	575.3	561.4	542.9	533.5	501.1	454.7
72.5°	398.9	408.3	398.9	398.9	389.7	394.3	375.8	366.4	357.3	338.8	310.9
75°	287.6	264.5	273.6	278.4	264.5	273.6	255.1	236.6	236.6	222.7	208.7
77.5°	185.6	181.0	185.6	190.2	185.6	181.0	171.7	162.3	162.3	157.7	143.8
80°	134.6	129.8	129.8	129.8	125.3	129.8	120.7	120.7	111.3	106.7	97.4
82.5°	88.2	88.2	83.4	88.2	83.4	88.2	74.3	74.3	74.3	69.5	60.3
85°	60.3	51.0	51.0	55.8	46.4	55.8	51.0	46.4	41.8	41.8	37.0
87.5°	27.9	32.5	27.9	32.5	27.9	27.9	32.5	27.9	27.9	18.5	18.5
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°	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1
2.5°	9454.7	9459.2	9459.2	9478.0	9487.1	9491.7	9491.7	9528.9	9515.0	9524.4	9533.5
5°	9320.2	9347.9	9357.3	9357.3	9408.3	9426.8	9445.3	9487.1	9491.7	9519.6	9552.1
7.5°	9190.2	9222.7	9241.4	9283.0	9315.5	9347.9	9403.7	9431.6	9459.2	9496.5	9538.1
10°	9064.9	9102.2	9139.2	9171.7	9222.7	9264.5	9301.5	9366.4	9399.1	9450.1	9505.7
12.5°	8944.4	8995.4	9027.9	9083.5	9139.2	9176.3	9232.0	9292.4	9343.3	9394.3	9459.2
15°	8837.7	8898.0	8935.1	8995.4	9055.8	9106.7	9167.1	9241.4	9278.4	9338.8	9399.1
17.5°	8721.6	8786.7	8833.1	8888.7	8963.0	9018.5	9069.7	9143.8	9190.2	9255.1	9324.8
20°	8601.1	8666.0	8721.6	8777.4	8851.6	8907.2	8967.5	9041.8	9092.8	9157.7	9213.5
22.5°	8457.3	8517.7	8577.8	8642.7	8717.0	8763.4	8833.1	8898.0	8953.6	9013.9	9069.7
25°	8271.7	8346.0	8392.4	8452.5	8512.9	8563.9	8638.2	8703.1	8749.5	8805.2	8856.2
27.5°	8053.6	8109.4	8146.4	8197.4	8257.8	8304.2	8359.7	8424.9	8471.3	8522.2	8559.3
30°	7682.4	7733.6	7766.1	7803.1	7863.5	7905.3	7951.7	8011.8	8044.3	8081.5	8114.0
32.5°	7195.3	7237.1	7255.6	7283.5	7325.3	7367.0	7404.2	7455.2	7469.1	7492.2	7492.2
35°	6490.3	6499.5	6494.9	6504.2	6522.8	6545.9	6578.3	6610.8	6629.3	6629.3	6615.6
37.5°	5664.4	5608.9	5548.5	5502.1	5488.2	5478.8	5497.5	5511.3	5530.0	5539.2	5516.1
40°	4806.3	4681.0	4546.4	4425.7	4342.3	4305.2	4291.3	4300.5	4300.5	4332.9	4332.9
42.5°	4068.6	3873.7	3674.3	3493.3	3372.6	3280.0	3238.2	3238.2	3242.8	3266.1	3280.0
45°	3456.3	3210.3	2978.3	2778.9	2611.9	2491.2	2435.6	2421.7	2417.1	2426.3	2458.7
47.5°	2987.7	2732.5	2491.2	2245.4	2069.2	1948.5	1897.5	1878.8	1860.3	1878.8	1883.6
50°	2621.2	2356.7	2101.6	1855.7	1670.1	1563.3	1498.4	1470.5	1465.9	1465.9	1475.3
52.5°	2287.0	2041.3	1786.2	1535.6	1340.7	1238.7	1178.4	1164.4	1145.9	1164.4	1164.4
55°	1971.6	1725.8	1475.3	1238.7	1076.2	969.7	913.9	895.4	886.0	900.0	900.0
57.5°	1628.4	1419.5	1187.7	974.2	811.9	737.7	695.8	672.7	668.0	677.3	668.0
60°	1336.1	1159.8	960.3	765.5	640.3	561.4	528.9	519.6	510.2	519.6	519.6
62.5°	1057.7	909.3	746.8	598.4	491.7	436.1	398.9	398.9	394.3	394.3	398.9
65°	784.1	668.0	552.0	426.8	343.3	301.5	273.6	273.6	269.1	273.6	269.1
67.5°	570.6	491.7	398.9	310.9	245.9	222.7	204.1	190.2	199.5	190.2	185.6
70°	417.6	352.5	287.6	236.6	190.2	167.1	153.1	148.4	139.2	139.2	139.2
72.5°	278.4	236.6	194.8	153.1	125.3	102.0	97.4	88.2	78.9	83.4	92.8
75°	185.6	157.7	139.2	111.3	83.4	83.4	55.8	55.8	46.4	55.8	41.8
77.5°	129.8	106.7	83.4	69.5	55.8	51.0	37.0	37.0	32.5	32.5	32.5
80°	92.8	78.9	60.3	51.0	37.0	37.0	32.5	27.9	23.1	23.1	27.9
82.5°	55.8	41.8	41.8	37.0	23.1	18.5	13.9	18.5	9.4	9.4	9.4
85°	32.5	27.9	23.1	13.9	9.4	9.4	4.6	0.0	4.6	4.6	0.0
87.5°	18.5	9.4	9.4	4.6	0.0	4.6	4.6	0.0	0.0	0.0	9.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1
2.5°	9556.8	9552.1	9561.4	9561.4	9589.3	9584.5	9598.5	9598.5	9589.3	9593.9	9612.4
5°	9589.3	9603.2	9630.9	9654.2	9695.8	9714.6	9737.7	9761.0	9765.5	9779.5	9793.4
7.5°	9589.3	9635.7	9668.2	9709.8	9765.5	9798.0	9849.0	9890.8	9909.3	9932.4	9960.3
10°	9570.6	9617.0	9677.3	9723.7	9793.4	9844.4	9895.4	9960.3	9988.2	10025.2	10062.5
12.5°	9533.5	9584.5	9649.4	9709.8	9788.6	9835.0	9900.0	9960.3	10002.1	10053.1	10094.9
15°	9478.0	9538.1	9598.5	9658.8	9742.2	9798.0	9858.3	9927.8	9969.7	10025.2	10062.5
17.5°	9389.7	9454.7	9510.4	9566.0	9644.9	9709.8	9765.5	9830.5	9872.3	9918.7	9969.7
20°	9283.0	9343.3	9403.7	9450.1	9528.9	9584.5	9644.9	9705.2	9737.7	9747.0	9825.9
22.5°	9148.6	9190.2	9236.6	9310.9	9357.3	9408.3	9464.0	9519.6	9552.1	9603.2	9630.9
25°	8925.7	8967.5	9018.5	9051.0	9106.7	9148.6	9204.1	9264.5	9283.0	9320.2	9347.9
27.5°	8615.0	8638.2	8661.4	8689.1	8721.6	8744.9	8777.4	8805.2	8823.8	8842.3	8860.8
30°	8123.1	8123.1	8123.1	8104.6	8118.6	8132.5	8137.1	8132.5	8132.5	8127.9	8127.9
32.5°	7473.7	7436.7	7394.9	7357.8	7343.9	7325.3	7316.0	7302.1	7278.9	7265.0	7269.6
35°	6596.9	6513.4	6462.4	6416.0	6379.0	6351.1	6337.2	6323.2	6318.6	6300.1	6281.4
37.5°	5502.1	5441.8	5404.7	5376.9	5344.4	5316.5	5321.1	5325.9	5339.6	5330.5	5335.0
40°	4342.3	4328.3	4342.3	4309.8	4300.5	4309.8	4332.9	4365.6	4384.1	4402.6	4435.1
42.5°	3303.1	3326.2	3358.9	3358.9	3372.6	3391.3	3419.0	3470.2	3497.9	3530.3	3567.6
45°	2486.6	2514.5	2556.3	2570.0	2579.4	2602.5	2635.2	2676.8	2695.3	2723.2	2755.6
47.5°	1916.0	1934.5	1957.7	1980.9	2004.1	2013.4	2045.9	2045.9	2069.2	2087.7	2096.9
50°	1493.8	1512.3	1530.9	1544.8	1554.2	1568.1	1577.3	1591.2	1595.8	1605.2	1609.7
52.5°	1169.0	1192.3	1192.3	1201.5	1215.4	1229.4	1224.8	1229.4	1233.9	1233.9	1247.9
55°	913.9	913.9	927.8	927.8	937.2	932.4	937.2	937.2	937.2	937.2	941.8
57.5°	681.9	686.7	700.6	691.3	686.7	695.8	686.7	695.8	691.3	700.6	686.7
60°	524.2	524.2	528.9	528.9	533.5	533.5	533.5	528.9	528.9	524.2	524.2
62.5°	394.3	398.9	403.7	398.9	398.9	398.9	394.3	394.3	389.7	385.0	385.0
65°	264.5	259.9	269.1	259.9	264.5	264.5	259.9	264.5	250.5	255.1	250.5
67.5°	190.2	185.6	181.0	185.6	181.0	176.2	176.2	181.0	185.6	171.7	171.7
70°	125.3	129.8	125.3	129.8	134.6	134.6	129.8	125.3	129.8	120.7	125.3
72.5°	78.9	78.9	78.9	78.9	78.9	83.4	83.4	83.4	74.3	74.3	69.5
75°	37.0	51.0	41.8	37.0	51.0	51.0	46.4	46.4	41.8	41.8	41.8
77.5°	37.0	27.9	27.9	27.9	27.9	27.9	27.9	27.9	23.1	27.9	23.1
80°	18.5	18.5	18.5	13.9	18.5	18.5	23.1	18.5	18.5	13.9	23.1
82.5°	9.4	9.4	9.4	0.0	4.6	9.4	9.4	4.6	9.4	9.4	4.6
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: P248683

CATALOG NUMBER: LD8B150D010 ER8B150840 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1
2.5°	9607.8	9603.2	9607.8	9612.4	9607.8	9603.2	9607.8	9612.4	9593.9	9589.3	9598.5
5°	9811.9	9811.9	9821.1	9825.9	9821.1	9811.9	9811.9	9793.4	9779.5	9765.5	9761.0
7.5°	9988.2	9997.5	10006.7	10011.3	10006.7	9997.5	9988.2	9960.3	9932.4	9909.3	9890.8
10°	10094.9	10108.9	10127.4	10136.6	10127.4	10108.9	10094.9	10062.5	10025.2	9988.2	9960.3
12.5°	10141.3	10155.3	10178.4	10173.8	10178.4	10155.3	10141.3	10094.9	10053.1	10002.1	9960.3
15°	10108.9	10127.4	10150.5	10159.9	10150.5	10127.4	10108.9	10062.5	10025.2	9969.7	9927.8
17.5°	10006.7	10034.6	10048.5	10062.5	10048.5	10034.6	10006.7	9969.7	9918.7	9872.3	9830.5
20°	9867.5	9886.2	9904.7	9909.3	9904.7	9886.2	9867.5	9825.9	9747.0	9737.7	9705.2
22.5°	9668.2	9682.1	9723.7	9709.8	9723.7	9682.1	9668.2	9630.9	9603.2	9552.1	9519.6
25°	9380.4	9394.3	9399.1	9403.7	9399.1	9394.3	9380.4	9347.9	9320.2	9283.0	9264.5
27.5°	8884.1	8884.1	8893.3	8898.0	8893.3	8884.1	8884.1	8860.8	8842.3	8823.8	8805.2
30°	8132.5	8132.5	8132.5	8155.8	8132.5	8132.5	8132.5	8127.9	8127.9	8132.5	8132.5
32.5°	7265.0	7255.6	7246.5	7255.6	7246.5	7255.6	7265.0	7269.6	7265.0	7278.9	7302.1
35°	6281.4	6276.8	6290.8	6272.2	6290.8	6276.8	6281.4	6281.4	6300.1	6318.6	6323.2
37.5°	5339.6	5330.5	5349.0	5330.5	5349.0	5330.5	5339.6	5335.0	5330.5	5339.6	5325.9
40°	4444.4	4453.6	4453.6	4490.8	4453.6	4453.6	4444.4	4435.1	4402.6	4384.1	4365.6
42.5°	3586.1	3614.0	3604.6	3632.5	3604.6	3614.0	3586.1	3567.6	3530.3	3497.9	3470.2
45°	2774.2	2792.9	2792.9	2802.0	2792.9	2792.9	2774.2	2755.6	2723.2	2695.3	2676.8
47.5°	2129.3	2129.3	2129.3	2134.1	2129.3	2129.3	2129.3	2096.9	2087.7	2069.2	2045.9
50°	1619.1	1623.7	1628.4	1633.0	1628.4	1623.7	1619.1	1609.7	1605.2	1595.8	1591.2
52.5°	1243.3	1247.9	1238.7	1247.9	1238.7	1247.9	1243.3	1247.9	1233.9	1233.9	1229.4
55°	941.8	937.2	941.8	946.4	941.8	937.2	941.8	941.8	937.2	937.2	937.2
57.5°	691.3	681.9	681.9	681.9	681.9	681.9	691.3	686.7	700.6	691.3	695.8
60°	515.0	519.6	519.6	524.2	519.6	519.6	515.0	524.2	524.2	528.9	528.9
62.5°	380.4	394.3	385.0	394.3	385.0	394.3	380.4	385.0	385.0	389.7	394.3
65°	245.9	245.9	245.9	250.5	245.9	245.9	245.9	250.5	255.1	250.5	264.5
67.5°	167.1	171.7	181.0	176.2	181.0	171.7	167.1	171.7	171.7	185.6	181.0
70°	134.6	120.7	120.7	134.6	120.7	120.7	134.6	125.3	120.7	129.8	125.3
72.5°	78.9	69.5	78.9	78.9	78.9	69.5	78.9	69.5	74.3	74.3	83.4
75°	41.8	37.0	32.5	46.4	32.5	37.0	41.8	41.8	41.8	41.8	46.4
77.5°	27.9	23.1	32.5	32.5	32.5	23.1	27.9	23.1	27.9	23.1	27.9
80°	13.9	18.5	13.9	23.1	13.9	18.5	13.9	23.1	13.9	18.5	18.5
82.5°	4.6	9.4	9.4	9.4	9.4	9.4	4.6	4.6	9.4	9.4	4.6
85°	0.0	9.4	4.6	4.6	4.6	9.4	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	0.0	0.0	4.6	0.0	0.0	4.6	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: P248683

CATALOG NUMBER: LD8B150D010 ER8B150840 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1
2.5°	9598.5	9584.5	9589.3	9561.4	9561.4	9552.1	9556.8	9533.5	9524.4	9515.0	9528.9
5°	9737.7	9714.6	9695.8	9654.2	9630.9	9603.2	9589.3	9552.1	9519.6	9491.7	9487.1
7.5°	9849.0	9798.0	9765.5	9709.8	9668.2	9635.7	9589.3	9538.1	9496.5	9459.2	9431.6
10°	9895.4	9844.4	9793.4	9723.7	9677.3	9617.0	9570.6	9505.7	9450.1	9399.1	9366.4
12.5°	9900.0	9835.0	9788.6	9709.8	9649.4	9584.5	9533.5	9459.2	9394.3	9343.3	9292.4
15°	9858.3	9798.0	9742.2	9658.8	9598.5	9538.1	9478.0	9399.1	9338.8	9278.4	9241.4
17.5°	9765.5	9709.8	9644.9	9566.0	9510.4	9454.7	9389.7	9324.8	9255.1	9190.2	9143.8
20°	9644.9	9584.5	9528.9	9450.1	9403.7	9343.3	9283.0	9213.5	9157.7	9092.8	9041.8
22.5°	9464.0	9408.3	9357.3	9310.9	9236.6	9190.2	9148.6	9069.7	9013.9	8953.6	8898.0
25°	9204.1	9148.6	9106.7	9051.0	9018.5	8967.5	8925.7	8856.2	8805.2	8749.5	8703.1
27.5°	8777.4	8744.9	8721.6	8689.1	8661.4	8638.2	8615.0	8559.3	8522.2	8471.3	8424.9
30°	8137.1	8132.5	8118.6	8104.6	8123.1	8123.1	8123.1	8114.0	8081.5	8044.3	8011.8
32.5°	7316.0	7325.3	7343.9	7357.8	7394.9	7436.7	7473.7	7492.2	7492.2	7469.1	7455.2
35°	6337.2	6351.1	6379.0	6416.0	6462.4	6513.4	6596.9	6615.6	6629.3	6629.3	6610.8
37.5°	5321.1	5316.5	5344.4	5376.9	5404.7	5441.8	5502.1	5516.1	5539.2	5530.0	5511.3
40°	4332.9	4309.8	4300.5	4309.8	4342.3	4328.3	4342.3	4332.9	4332.9	4300.5	4300.5
42.5°	3419.0	3391.3	3372.6	3358.9	3358.9	3326.2	3303.1	3280.0	3266.1	3242.8	3238.2
45°	2635.2	2602.5	2579.4	2570.0	2556.3	2514.5	2486.6	2458.7	2426.3	2417.1	2421.7
47.5°	2045.9	2013.4	2004.1	1980.9	1957.7	1934.5	1916.0	1883.6	1878.8	1860.3	1878.8
50°	1577.3	1568.1	1554.2	1544.8	1530.9	1512.3	1493.8	1475.3	1465.9	1465.9	1470.5
52.5°	1224.8	1229.4	1215.4	1201.5	1192.3	1192.3	1169.0	1164.4	1164.4	1145.9	1164.4
55°	937.2	932.4	937.2	927.8	927.8	913.9	913.9	900.0	900.0	886.0	895.4
57.5°	686.7	695.8	686.7	691.3	700.6	686.7	681.9	668.0	677.3	668.0	672.7
60°	533.5	533.5	533.5	528.9	528.9	524.2	524.2	519.6	519.6	510.2	519.6
62.5°	394.3	398.9	398.9	398.9	403.7	398.9	394.3	398.9	394.3	394.3	398.9
65°	259.9	264.5	264.5	259.9	269.1	259.9	264.5	269.1	273.6	269.1	273.6
67.5°	176.2	176.2	181.0	185.6	181.0	185.6	190.2	185.6	190.2	199.5	190.2
70°	129.8	134.6	134.6	129.8	125.3	129.8	125.3	139.2	139.2	139.2	148.4
72.5°	83.4	83.4	78.9	78.9	78.9	78.9	78.9	92.8	83.4	78.9	88.2
75°	46.4	51.0	51.0	37.0	41.8	51.0	37.0	41.8	55.8	46.4	55.8
77.5°	27.9	27.9	27.9	27.9	27.9	27.9	37.0	32.5	32.5	32.5	37.0
80°	23.1	18.5	18.5	13.9	18.5	18.5	18.5	27.9	23.1	23.1	27.9
82.5°	9.4	9.4	4.6	0.0	9.4	9.4	9.4	9.4	9.4	9.4	18.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	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: P248683

CATALOG NUMBER: LD8B150D010 ER8B150840 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1
2.5°	9491.7	9491.7	9487.1	9478.0	9459.2	9459.2	9454.7	9440.7	9431.6	9426.8	9426.8
5°	9445.3	9426.8	9408.3	9357.3	9357.3	9347.9	9320.2	9301.5	9292.4	9269.1	9259.9
7.5°	9403.7	9347.9	9315.5	9283.0	9241.4	9222.7	9190.2	9176.3	9143.8	9120.7	9106.7
10°	9301.5	9264.5	9222.7	9171.7	9139.2	9102.2	9064.9	9037.2	8995.4	8972.1	8953.6
12.5°	9232.0	9176.3	9139.2	9083.5	9027.9	8995.4	8944.4	8912.0	8870.2	8823.8	8795.9
15°	9167.1	9106.7	9055.8	8995.4	8935.1	8898.0	8837.7	8800.7	8740.3	8693.9	8661.4
17.5°	9069.7	9018.5	8963.0	8888.7	8833.1	8786.7	8721.6	8675.4	8619.6	8559.3	8526.8
20°	8967.5	8907.2	8851.6	8777.4	8721.6	8666.0	8601.1	8550.1	8485.0	8429.4	8392.4
22.5°	8833.1	8763.4	8717.0	8642.7	8577.8	8517.7	8457.3	8397.0	8336.6	8290.2	8248.4
25°	8638.2	8563.9	8512.9	8452.5	8392.4	8346.0	8271.7	8234.7	8174.3	8132.5	8090.7
27.5°	8359.7	8304.2	8257.8	8197.4	8146.4	8109.4	8053.6	8016.6	7965.4	7928.4	7895.9
30°	7951.7	7905.3	7863.5	7803.1	7766.1	7733.6	7682.4	7650.0	7612.9	7571.1	7561.9
32.5°	7404.2	7367.0	7325.3	7283.5	7255.6	7237.1	7195.3	7176.8	7139.7	7116.4	7093.3
35°	6578.3	6545.9	6522.8	6504.2	6494.9	6499.5	6490.3	6508.8	6518.0	6513.4	6518.0
37.5°	5497.5	5478.8	5488.2	5502.1	5548.5	5608.9	5664.4	5747.9	5803.6	5859.4	5910.4
40°	4291.3	4305.2	4342.3	4425.7	4546.4	4681.0	4806.3	4964.0	5121.7	5233.1	5335.0
42.5°	3238.2	3280.0	3372.6	3493.3	3674.3	3873.7	4068.6	4300.5	4490.8	4676.3	4806.3
45°	2435.6	2491.2	2611.9	2778.9	2978.3	3210.3	3456.3	3715.9	3943.4	4133.6	4277.4
47.5°	1897.5	1948.5	2069.2	2245.4	2491.2	2732.5	2987.7	3256.7	3493.3	3678.9	3804.2
50°	1498.4	1563.3	1670.1	1855.7	2101.6	2356.7	2621.2	2885.5	3108.3	3266.1	3377.4
52.5°	1178.4	1238.7	1340.7	1535.6	1786.2	2041.3	2287.0	2546.9	2741.7	2894.9	2969.1
55°	913.9	969.7	1076.2	1238.7	1475.3	1725.8	1971.6	2194.4	2375.3	2486.6	2556.3
57.5°	695.8	737.7	811.9	974.2	1187.7	1419.5	1628.4	1851.1	1990.3	2069.2	2115.4
60°	528.9	561.4	640.3	765.5	960.3	1159.8	1336.1	1503.2	1614.5	1679.4	1725.8
62.5°	398.9	436.1	491.7	598.4	746.8	909.3	1057.7	1183.0	1275.8	1317.6	1350.0
65°	273.6	301.5	343.3	426.8	552.0	668.0	784.1	876.9	937.2	983.6	1002.1
67.5°	204.1	222.7	245.9	310.9	398.9	491.7	570.6	635.5	700.6	719.1	751.6
70°	153.1	167.1	190.2	236.6	287.6	352.5	417.6	454.7	501.1	533.5	542.9
72.5°	97.4	102.0	125.3	153.1	194.8	236.6	278.4	310.9	338.8	357.3	366.4
75°	55.8	83.4	83.4	111.3	139.2	157.7	185.6	208.7	222.7	236.6	236.6
77.5°	37.0	51.0	55.8	69.5	83.4	106.7	129.8	143.8	157.7	162.3	162.3
80°	32.5	37.0	37.0	51.0	60.3	78.9	92.8	97.4	106.7	111.3	120.7
82.5°	13.9	18.5	23.1	37.0	41.8	41.8	55.8	60.3	69.5	74.3	74.3
85°	4.6	9.4	9.4	13.9	23.1	27.9	32.5	37.0	41.8	41.8	46.4
87.5°	4.6	4.6	0.0	4.6	9.4	9.4	18.5	18.5	18.5	27.9	27.9
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: P248683

CATALOG NUMBER: LD8B150D010 ER8B150840 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1	9501.1
2.5°	9417.6	9422.2	9403.7	9399.1	9389.7	9394.3	9403.7
5°	9246.0	9250.5	9232.0	9213.5	9213.5	9208.7	9213.5
7.5°	9083.5	9088.2	9060.3	9051.0	9032.5	9037.2	9037.2
10°	8921.1	8921.1	8879.5	8874.7	8860.8	8856.2	8856.2
12.5°	8763.4	8749.5	8717.0	8698.5	8707.8	8680.0	8680.0
15°	8624.2	8601.1	8559.3	8545.3	8522.2	8512.9	8512.9
17.5°	8480.4	8461.9	8424.9	8397.0	8369.1	8364.5	8369.1
20°	8341.2	8322.7	8276.3	8257.8	8234.7	8234.7	8225.3
22.5°	8202.0	8183.5	8141.9	8127.9	8095.5	8095.5	8100.0
25°	8058.2	8044.3	7997.9	7988.7	7984.1	7965.4	7974.8
27.5°	7863.5	7854.1	7817.1	7803.1	7784.6	7780.0	7789.2
30°	7506.2	7492.2	7464.6	7450.6	7418.2	7422.7	7431.9
32.5°	7060.9	7042.4	7005.1	6991.2	6963.5	6954.1	6958.7
35°	6504.2	6490.3	6457.8	6457.8	6430.0	6420.6	6430.0
37.5°	5938.3	5952.0	5938.3	5952.0	5938.3	5933.5	5938.3
40°	5404.7	5455.7	5464.9	5516.1	5497.5	5525.2	5520.6
42.5°	4894.3	4977.8	5010.4	5052.0	5042.9	5061.4	5075.3
45°	4379.3	4449.0	4481.5	4509.4	4513.9	4523.3	4527.9
47.5°	3892.2	3948.0	3952.5	3985.0	3980.4	3980.4	3994.4
50°	3437.7	3474.8	3483.9	3507.2	3488.7	3479.4	3483.9
52.5°	3015.5	3052.6	3043.2	3052.6	3029.5	3020.1	3024.7
55°	2584.0	2602.5	2602.5	2602.5	2574.8	2574.8	2574.8
57.5°	2143.3	2148.0	2138.7	2143.3	2138.7	2110.8	2106.2
60°	1739.8	1739.8	1735.0	1739.8	1725.8	1711.9	1711.9
62.5°	1359.2	1368.6	1387.1	1368.6	1359.2	1368.6	1354.6
65°	1016.1	1034.6	1029.8	1039.2	1034.6	1034.6	1025.2
67.5°	765.5	770.1	774.7	779.5	779.5	779.5	779.5
70°	561.4	575.3	570.6	570.6	570.6	570.6	598.4
72.5°	375.8	394.3	389.7	398.9	398.9	408.3	398.9
75°	255.1	273.6	264.5	278.4	273.6	264.5	287.6
77.5°	171.7	181.0	185.6	190.2	185.6	181.0	185.6
80°	120.7	129.8	125.3	129.8	129.8	129.8	134.6
82.5°	74.3	88.2	83.4	88.2	83.4	88.2	88.2
85°	51.0	55.8	46.4	55.8	51.0	51.0	60.3
87.5°	32.5	27.9	27.9	32.5	27.9	32.5	27.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)