

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: P248757

Luminaire Tested: **LD8B200D010 ER8B2009730 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248757
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: LD8B200D010 ER8B2009730 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15794.0 lumens
Efficiency: N/A
Efficacy: 70.7 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

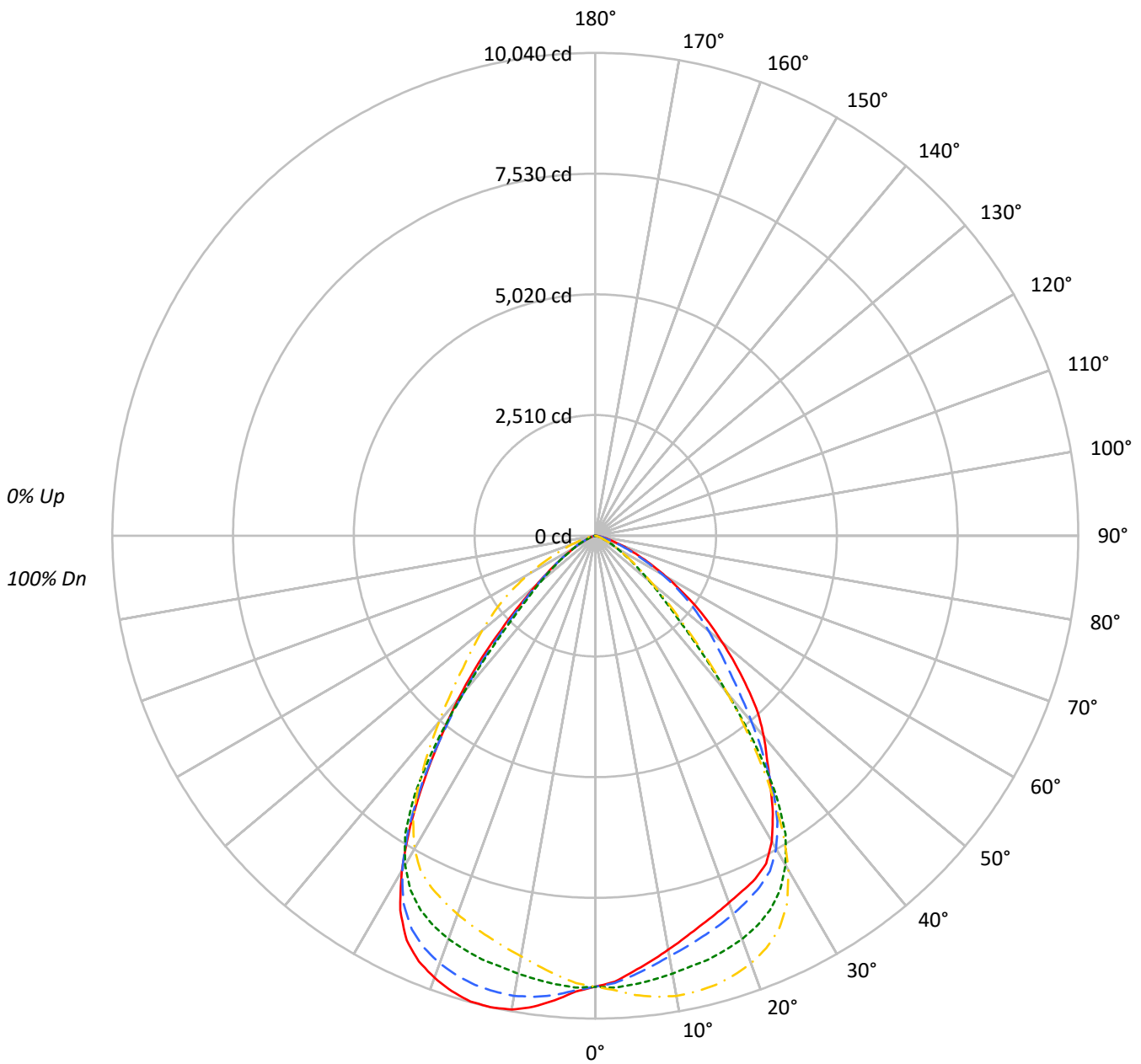
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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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°	892.5	5.7
10°-20°	2584.4	16.4
20°-30°	3913.3	24.8
30°-40°	3922.1	24.8
40°-50°	2462.9	15.6
50°-60°	1312.5	8.3
60°-70°	539.7	3.4
70°-80°	142.6	0.9
80°-90°	24.1	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°	7390.2	46.8
0°-40°	11312.2	71.6
0°-60°	15087.6	95.5
0°-90°	15794.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15794.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9376	9376	9376	9376	9376	
5°	9093	9363	9697	9363	9093	857
15°	8401	9120	10026	9120	8401	2376
25°	7870	8589	9280	8589	7870	3610
35°	6346	6524	6190	6524	6346	3975
45°	4468	2390	2765	2390	4468	3437
55°	2541	884	934	884	2541	2265
65°	1012	270	247	270	1012	1050
75°	284	55	46	55	284	322
85°	60	0	4	0	60	65
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°	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4
2.5°	9280.3	9271.1	9266.5	9275.8	9280.3	9298.6	9294.0	9303.1	9303.1	9307.8	9316.8
5°	9092.6	9087.9	9092.6	9092.6	9110.9	9129.2	9124.6	9138.4	9147.4	9170.4	9179.5
7.5°	8918.7	8918.7	8913.9	8932.2	8941.5	8969.0	8964.3	8987.3	9001.0	9023.8	9055.8
10°	8740.0	8740.0	8744.5	8758.3	8763.0	8804.1	8804.1	8836.1	8854.4	8877.4	8918.7
12.5°	8566.1	8566.1	8593.6	8584.4	8602.6	8634.7	8648.4	8680.5	8708.0	8753.8	8795.0
15°	8401.2	8401.2	8410.4	8433.2	8447.0	8488.2	8511.0	8547.8	8579.8	8625.6	8685.2
17.5°	8259.3	8254.8	8259.3	8286.8	8314.3	8350.9	8369.1	8414.9	8447.0	8506.5	8561.6
20°	8117.4	8126.6	8126.6	8149.4	8167.7	8213.5	8231.8	8282.3	8318.8	8373.7	8437.9
22.5°	7993.8	7989.2	7989.2	8021.3	8035.0	8076.1	8094.4	8140.2	8181.5	8227.2	8286.8
25°	7870.1	7860.9	7879.4	7883.9	7892.9	7938.7	7952.5	7984.5	8025.8	8067.1	8126.6
27.5°	7687.0	7677.9	7682.4	7700.7	7714.5	7751.0	7760.3	7792.3	7824.3	7860.9	7911.4
30°	7334.4	7325.3	7320.8	7352.8	7366.6	7393.9	7407.7	7462.7	7471.8	7513.0	7549.6
32.5°	6867.4	6862.9	6872.1	6899.4	6913.2	6949.9	6968.2	7000.3	7023.1	7046.1	7082.6
35°	6345.6	6336.4	6345.6	6373.1	6373.1	6405.1	6418.9	6432.5	6427.9	6432.5	6423.4
37.5°	5860.3	5855.6	5860.3	5873.9	5860.3	5873.9	5860.3	5832.8	5782.5	5727.5	5672.5
40°	5448.2	5452.7	5425.4	5443.7	5393.2	5384.1	5333.8	5265.0	5164.4	5054.5	4898.9
42.5°	5008.7	4995.0	4976.7	4985.8	4944.7	4912.5	4830.1	4743.2	4614.9	4431.9	4244.0
45°	4468.5	4463.9	4454.7	4450.2	4422.7	4390.6	4321.9	4221.2	4079.3	3891.6	3667.2
47.5°	3941.9	3928.2	3928.2	3932.7	3900.7	3896.2	3841.1	3754.3	3630.6	3447.5	3214.0
50°	3438.2	3433.7	3442.9	3461.2	3438.2	3429.2	3392.6	3333.1	3223.2	3067.5	2847.6
52.5°	2985.0	2980.5	2989.7	3012.5	3003.3	3012.5	2976.0	2930.2	2856.9	2705.7	2513.5
55°	2541.0	2541.0	2541.0	2568.4	2568.4	2568.4	2550.1	2522.7	2454.0	2344.1	2165.6
57.5°	2078.6	2083.1	2110.6	2115.1	2110.6	2119.8	2115.1	2087.6	2042.0	1964.2	1826.8
60°	1689.4	1689.4	1703.2	1716.9	1712.2	1716.9	1716.9	1703.2	1657.4	1593.3	1483.5
62.5°	1336.8	1350.6	1341.4	1350.6	1368.9	1350.6	1341.4	1332.3	1300.3	1259.0	1167.4
65°	1011.8	1021.0	1021.0	1025.5	1016.3	1021.0	1002.7	989.0	970.7	924.9	865.4
67.5°	769.2	769.2	769.2	769.2	764.5	760.0	755.5	741.7	709.7	691.4	627.2
70°	590.6	563.1	563.1	563.1	563.1	567.8	554.0	535.8	526.5	494.5	448.7
72.5°	393.7	402.9	393.7	393.7	384.6	389.1	370.9	361.6	352.6	334.3	306.8
75°	283.8	261.0	270.0	274.8	261.0	270.0	251.8	233.5	233.5	219.7	206.0
77.5°	183.2	178.6	183.2	187.7	183.2	178.6	169.4	160.2	160.2	155.7	141.9
80°	132.9	128.1	128.1	128.1	123.6	128.1	119.1	119.1	109.9	105.3	96.1
82.5°	87.1	87.1	82.4	87.1	82.4	87.1	73.3	73.3	73.3	68.6	59.5
85°	59.5	50.3	50.3	55.0	45.8	55.0	50.3	45.8	41.3	41.3	36.6
87.5°	27.5	32.0	27.5	32.0	27.5	27.5	32.0	27.5	27.5	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4
2.5°	9330.6	9335.1	9335.1	9353.6	9362.6	9367.2	9367.2	9403.9	9390.2	9399.4	9408.4
5°	9197.9	9225.3	9234.5	9234.5	9284.8	9303.1	9321.4	9362.6	9367.2	9394.7	9426.7
7.5°	9069.6	9101.6	9120.1	9161.2	9193.2	9225.3	9280.3	9307.8	9335.1	9371.9	9413.0
10°	8946.0	8982.7	9019.3	9051.3	9101.6	9142.9	9179.5	9243.5	9275.8	9326.1	9380.9
12.5°	8827.1	8877.4	8909.4	8964.3	9019.3	9055.8	9110.9	9170.4	9220.7	9271.1	9335.1
15°	8721.7	8781.3	8817.8	8877.4	8936.9	8987.3	9046.8	9120.1	9156.7	9216.2	9275.8
17.5°	8607.2	8671.4	8717.2	8772.0	8845.4	8900.2	8950.7	9023.8	9069.6	9133.7	9202.5
20°	8488.2	8552.3	8607.2	8662.2	8735.5	8790.3	8849.9	8923.2	8973.5	9037.6	9092.6
22.5°	8346.3	8405.9	8465.3	8529.3	8602.6	8648.4	8717.2	8781.3	8836.1	8895.7	8950.7
25°	8163.2	8236.5	8282.3	8341.6	8401.2	8451.5	8524.8	8588.9	8634.7	8689.7	8740.0
27.5°	7948.0	8003.0	8039.6	8089.9	8149.4	8195.2	8250.0	8314.3	8360.1	8410.4	8447.0
30°	7581.6	7632.1	7664.2	7700.7	7760.3	7801.5	7847.3	7906.7	7938.7	7975.5	8007.5
32.5°	7100.9	7142.2	7160.4	7188.0	7229.2	7270.3	7307.1	7357.4	7371.1	7393.9	7393.9
35°	6405.1	6414.2	6409.7	6418.9	6437.2	6460.0	6492.0	6524.1	6542.3	6542.3	6528.8
37.5°	5590.1	5535.3	5475.7	5429.9	5416.2	5406.9	5425.4	5439.0	5457.4	5466.5	5443.7
40°	4743.2	4619.6	4486.7	4367.6	4285.3	4248.7	4235.0	4244.0	4244.0	4276.1	4276.1
42.5°	4015.3	3822.8	3626.1	3447.5	3328.4	3237.0	3195.7	3195.7	3200.2	3223.2	3237.0
45°	3410.9	3168.2	2939.2	2742.5	2577.6	2458.5	2403.6	2389.9	2385.4	2394.4	2426.5
47.5°	2948.5	2696.7	2458.5	2216.0	2042.0	1922.9	1872.6	1854.1	1835.9	1854.1	1858.8
50°	2586.8	2325.8	2074.1	1831.3	1648.2	1542.8	1478.7	1451.2	1446.7	1446.7	1455.9
52.5°	2257.0	2014.5	1762.7	1515.5	1323.1	1222.5	1162.9	1149.2	1130.9	1149.2	1149.2
55°	1945.7	1703.2	1455.9	1222.5	1062.1	956.9	901.9	883.6	874.4	888.2	888.2
57.5°	1607.1	1400.9	1172.1	961.5	801.3	728.0	686.7	663.9	659.2	668.4	659.2
60°	1318.6	1144.6	947.7	755.5	631.9	554.0	522.0	512.8	503.5	512.8	512.8
62.5°	1043.8	897.4	737.0	590.6	485.3	430.4	393.7	393.7	389.1	389.1	393.7
65°	773.8	659.2	544.8	421.2	338.8	297.6	270.0	270.0	265.5	270.0	265.5
67.5°	563.1	485.3	393.7	306.8	242.7	219.7	201.5	187.7	196.9	187.7	183.2
70°	412.1	347.9	283.8	233.5	187.7	164.9	151.1	146.4	137.4	137.4	137.4
72.5°	274.8	233.5	192.2	151.1	123.6	100.6	96.1	87.1	77.8	82.4	91.6
75°	183.2	155.7	137.4	109.9	82.4	82.4	55.0	55.0	45.8	55.0	41.3
77.5°	128.1	105.3	82.4	68.6	55.0	50.3	36.6	36.6	32.0	32.0	32.0
80°	91.6	77.8	59.5	50.3	36.6	36.6	32.0	27.5	22.8	22.8	27.5
82.5°	55.0	41.3	41.3	36.6	22.8	18.3	13.8	18.3	9.2	9.2	9.2
85°	32.0	27.5	22.8	13.8	9.2	9.2	4.5	0.0	4.5	4.5	0.0
87.5°	18.3	9.2	9.2	4.5	0.0	4.5	4.5	0.0	0.0	0.0	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4
2.5°	9431.4	9426.7	9435.9	9435.9	9463.5	9458.7	9472.5	9472.5	9463.5	9468.0	9486.3
5°	9463.5	9477.2	9504.5	9527.5	9568.6	9587.1	9609.9	9632.9	9637.4	9651.2	9664.9
7.5°	9463.5	9509.3	9541.3	9582.4	9637.4	9669.4	9719.7	9761.0	9779.3	9802.1	9829.6
10°	9445.0	9490.8	9550.3	9596.1	9664.9	9715.2	9765.5	9829.6	9857.1	9893.7	9930.4
12.5°	9408.4	9458.7	9522.8	9582.4	9660.2	9706.0	9770.1	9829.6	9870.9	9921.2	9962.5
15°	9353.6	9413.0	9472.5	9532.1	9614.4	9669.4	9729.0	9797.6	9838.8	9893.7	9930.4
17.5°	9266.5	9330.6	9385.6	9440.5	9518.3	9582.4	9637.4	9701.5	9742.7	9788.5	9838.8
20°	9161.2	9220.7	9280.3	9326.1	9403.9	9458.7	9518.3	9577.8	9609.9	9619.1	9696.9
22.5°	9028.5	9069.6	9115.4	9188.7	9234.5	9284.8	9339.8	9394.7	9426.7	9477.2	9504.5
25°	8808.6	8849.9	8900.2	8932.2	8987.3	9028.5	9083.4	9142.9	9161.2	9197.9	9225.3
27.5°	8502.0	8524.8	8547.8	8575.1	8607.2	8630.1	8662.2	8689.7	8708.0	8726.3	8744.5
30°	8016.6	8016.6	8016.6	7998.3	8012.0	8025.8	8030.3	8025.8	8025.8	8021.3	8021.3
32.5°	7375.6	7339.1	7297.8	7261.3	7247.5	7229.2	7220.0	7206.2	7183.4	7169.7	7174.2
35°	6510.3	6427.9	6377.6	6331.8	6295.3	6267.8	6254.0	6240.3	6235.7	6217.5	6199.0
37.5°	5429.9	5370.4	5333.8	5306.3	5274.3	5246.8	5251.3	5256.0	5269.6	5260.5	5265.0
40°	4285.3	4271.5	4285.3	4253.3	4244.0	4253.3	4276.1	4308.3	4326.6	4344.8	4376.9
42.5°	3259.8	3282.6	3314.8	3314.8	3328.4	3346.8	3374.2	3424.7	3452.0	3484.0	3520.8
45°	2454.0	2481.5	2522.7	2536.3	2545.5	2568.4	2600.6	2641.7	2659.9	2687.5	2719.5
47.5°	1890.9	1909.2	1932.0	1955.0	1977.8	1987.0	2019.0	2019.0	2042.0	2060.3	2069.3
50°	1474.2	1492.5	1510.8	1524.5	1533.8	1547.5	1556.6	1570.3	1574.9	1584.1	1588.6
52.5°	1153.7	1176.7	1176.7	1185.7	1199.5	1213.2	1208.7	1213.2	1217.7	1217.7	1231.5
55°	901.9	901.9	915.7	915.7	924.9	920.2	924.9	924.9	924.9	924.9	929.4
57.5°	672.9	677.7	691.4	682.2	677.7	686.7	677.7	686.7	682.2	691.4	677.7
60°	517.3	517.3	522.0	522.0	526.5	526.5	526.5	522.0	522.0	517.3	517.3
62.5°	389.1	393.7	398.4	393.7	393.7	393.7	389.1	389.1	384.6	379.9	379.9
65°	261.0	256.5	265.5	256.5	261.0	261.0	256.5	261.0	247.2	251.8	247.2
67.5°	187.7	183.2	178.6	183.2	178.6	173.9	173.9	178.6	183.2	169.4	169.4
70°	123.6	128.1	123.6	128.1	132.9	132.9	128.1	123.6	128.1	119.1	123.6
72.5°	77.8	77.8	77.8	77.8	77.8	82.4	82.4	82.4	73.3	73.3	68.6
75°	36.6	50.3	41.3	36.6	50.3	50.3	45.8	45.8	41.3	41.3	41.3
77.5°	36.6	27.5	27.5	27.5	27.5	27.5	27.5	27.5	22.8	27.5	22.8
80°	18.3	18.3	18.3	13.8	18.3	18.3	22.8	18.3	18.3	13.8	22.8
82.5°	9.2	9.2	9.2	0.0	4.5	9.2	9.2	4.5	9.2	9.2	4.5
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: P248757

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4
2.5°	9481.7	9477.2	9481.7	9486.3	9481.7	9477.2	9481.7	9486.3	9468.0	9463.5	9472.5
5°	9683.2	9683.2	9692.2	9696.9	9692.2	9683.2	9683.2	9664.9	9651.2	9637.4	9632.9
7.5°	9857.1	9866.4	9875.4	9879.9	9875.4	9866.4	9857.1	9829.6	9802.1	9779.3	9761.0
10°	9962.5	9976.2	9994.5	10003.6	9994.5	9976.2	9962.5	9930.4	9893.7	9857.1	9829.6
12.5°	10008.3	10022.0	10044.8	10040.3	10044.8	10022.0	10008.3	9962.5	9921.2	9870.9	9829.6
15°	9976.2	9994.5	10017.3	10026.5	10017.3	9994.5	9976.2	9930.4	9893.7	9838.8	9797.6
17.5°	9875.4	9902.9	9916.7	9930.4	9916.7	9902.9	9875.4	9838.8	9788.5	9742.7	9701.5
20°	9738.0	9756.5	9774.8	9779.3	9774.8	9756.5	9738.0	9696.9	9619.1	9609.9	9577.8
22.5°	9541.3	9555.0	9596.1	9582.4	9596.1	9555.0	9541.3	9504.5	9477.2	9426.7	9394.7
25°	9257.3	9271.1	9275.8	9280.3	9275.8	9271.1	9257.3	9225.3	9197.9	9161.2	9142.9
27.5°	8767.5	8767.5	8776.6	8781.3	8776.6	8767.5	8767.5	8744.5	8726.3	8708.0	8689.7
30°	8025.8	8025.8	8025.8	8048.8	8025.8	8025.8	8025.8	8021.3	8021.3	8025.8	8025.8
32.5°	7169.7	7160.4	7151.4	7160.4	7151.4	7160.4	7169.7	7174.2	7169.7	7183.4	7206.2
35°	6199.0	6194.5	6208.2	6189.9	6208.2	6194.5	6199.0	6199.0	6217.5	6235.7	6240.3
37.5°	5269.6	5260.5	5278.8	5260.5	5278.8	5260.5	5269.6	5265.0	5260.5	5269.6	5256.0
40°	4386.1	4395.2	4395.2	4431.9	4395.2	4395.2	4386.1	4376.9	4344.8	4326.6	4308.3
42.5°	3539.0	3566.6	3557.3	3584.8	3557.3	3566.6	3539.0	3520.8	3484.0	3452.0	3424.7
45°	2737.8	2756.2	2756.2	2765.3	2756.2	2756.2	2737.8	2719.5	2687.5	2659.9	2641.7
47.5°	2101.4	2101.4	2101.4	2106.1	2101.4	2101.4	2101.4	2069.3	2060.3	2042.0	2019.0
50°	1597.8	1602.4	1607.1	1611.6	1607.1	1602.4	1597.8	1588.6	1584.1	1574.9	1570.3
52.5°	1227.0	1231.5	1222.5	1231.5	1222.5	1231.5	1227.0	1231.5	1217.7	1217.7	1213.2
55°	929.4	924.9	929.4	933.9	929.4	924.9	929.4	929.4	924.9	924.9	924.9
57.5°	682.2	672.9	672.9	672.9	672.9	672.9	682.2	677.7	691.4	682.2	686.7
60°	508.2	512.8	512.8	517.3	512.8	512.8	508.2	517.3	517.3	522.0	522.0
62.5°	375.4	389.1	379.9	389.1	379.9	389.1	375.4	379.9	379.9	384.6	389.1
65°	242.7	242.7	242.7	247.2	242.7	242.7	242.7	247.2	251.8	247.2	261.0
67.5°	164.9	169.4	178.6	173.9	178.6	169.4	164.9	169.4	169.4	183.2	178.6
70°	132.9	119.1	119.1	132.9	119.1	119.1	132.9	123.6	119.1	128.1	123.6
72.5°	77.8	68.6	77.8	77.8	77.8	68.6	77.8	68.6	73.3	73.3	82.4
75°	41.3	36.6	32.0	45.8	32.0	36.6	41.3	41.3	41.3	41.3	45.8
77.5°	27.5	22.8	32.0	32.0	32.0	22.8	27.5	22.8	27.5	22.8	27.5
80°	13.8	18.3	13.8	22.8	13.8	18.3	13.8	22.8	13.8	18.3	18.3
82.5°	4.5	9.2	9.2	9.2	9.2	9.2	4.5	4.5	9.2	9.2	4.5
85°	0.0	9.2	4.5	4.5	4.5	9.2	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	0.0	0.0	4.5	0.0	0.0	4.5	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: P248757

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4
2.5°	9472.5	9458.7	9463.5	9435.9	9435.9	9426.7	9431.4	9408.4	9399.4	9390.2	9403.9
5°	9609.9	9587.1	9568.6	9527.5	9504.5	9477.2	9463.5	9426.7	9394.7	9367.2	9362.6
7.5°	9719.7	9669.4	9637.4	9582.4	9541.3	9509.3	9463.5	9413.0	9371.9	9335.1	9307.8
10°	9765.5	9715.2	9664.9	9596.1	9550.3	9490.8	9445.0	9380.9	9326.1	9275.8	9243.5
12.5°	9770.1	9706.0	9660.2	9582.4	9522.8	9458.7	9408.4	9335.1	9271.1	9220.7	9170.4
15°	9729.0	9669.4	9614.4	9532.1	9472.5	9413.0	9353.6	9275.8	9216.2	9156.7	9120.1
17.5°	9637.4	9582.4	9518.3	9440.5	9385.6	9330.6	9266.5	9202.5	9133.7	9069.6	9023.8
20°	9518.3	9458.7	9403.9	9326.1	9280.3	9220.7	9161.2	9092.6	9037.6	8973.5	8923.2
22.5°	9339.8	9284.8	9234.5	9188.7	9115.4	9069.6	9028.5	8950.7	8895.7	8836.1	8781.3
25°	9083.4	9028.5	8987.3	8932.2	8900.2	8849.9	8808.6	8740.0	8689.7	8634.7	8588.9
27.5°	8662.2	8630.1	8607.2	8575.1	8547.8	8524.8	8502.0	8447.0	8410.4	8360.1	8314.3
30°	8030.3	8025.8	8012.0	7998.3	8016.6	8016.6	8016.6	8007.5	7975.5	7938.7	7906.7
32.5°	7220.0	7229.2	7247.5	7261.3	7297.8	7339.1	7375.6	7393.9	7393.9	7371.1	7357.4
35°	6254.0	6267.8	6295.3	6331.8	6377.6	6427.9	6510.3	6528.8	6542.3	6542.3	6524.1
37.5°	5251.3	5246.8	5274.3	5306.3	5333.8	5370.4	5429.9	5443.7	5466.5	5457.4	5439.0
40°	4276.1	4253.3	4244.0	4253.3	4285.3	4271.5	4285.3	4276.1	4276.1	4244.0	4244.0
42.5°	3374.2	3346.8	3328.4	3314.8	3314.8	3282.6	3259.8	3237.0	3223.2	3200.2	3195.7
45°	2600.6	2568.4	2545.5	2536.3	2522.7	2481.5	2454.0	2426.5	2394.4	2385.4	2389.9
47.5°	2019.0	1987.0	1977.8	1955.0	1932.0	1909.2	1890.9	1858.8	1854.1	1835.9	1854.1
50°	1556.6	1547.5	1533.8	1524.5	1510.8	1492.5	1474.2	1455.9	1446.7	1446.7	1451.2
52.5°	1208.7	1213.2	1199.5	1185.7	1176.7	1176.7	1153.7	1149.2	1149.2	1130.9	1149.2
55°	924.9	920.2	924.9	915.7	915.7	901.9	901.9	888.2	888.2	874.4	883.6
57.5°	677.7	686.7	677.7	682.2	691.4	677.7	672.9	659.2	668.4	659.2	663.9
60°	526.5	526.5	526.5	522.0	522.0	517.3	517.3	512.8	512.8	503.5	512.8
62.5°	389.1	393.7	393.7	393.7	398.4	393.7	389.1	393.7	389.1	389.1	393.7
65°	256.5	261.0	261.0	256.5	265.5	256.5	261.0	265.5	270.0	265.5	270.0
67.5°	173.9	173.9	178.6	183.2	178.6	183.2	187.7	183.2	187.7	196.9	187.7
70°	128.1	132.9	132.9	128.1	123.6	128.1	123.6	137.4	137.4	137.4	146.4
72.5°	82.4	82.4	77.8	77.8	77.8	77.8	77.8	91.6	82.4	77.8	87.1
75°	45.8	50.3	50.3	36.6	41.3	50.3	36.6	41.3	55.0	45.8	55.0
77.5°	27.5	27.5	27.5	27.5	27.5	27.5	36.6	32.0	32.0	32.0	36.6
80°	22.8	18.3	18.3	13.8	18.3	18.3	18.3	27.5	22.8	22.8	27.5
82.5°	9.2	9.2	4.5	0.0	9.2	9.2	9.2	9.2	9.2	9.2	18.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248757

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4
2.5°	9367.2	9367.2	9362.6	9353.6	9335.1	9335.1	9330.6	9316.8	9307.8	9303.1	9303.1
5°	9321.4	9303.1	9284.8	9234.5	9234.5	9225.3	9197.9	9179.5	9170.4	9147.4	9138.4
7.5°	9280.3	9225.3	9193.2	9161.2	9120.1	9101.6	9069.6	9055.8	9023.8	9001.0	8987.3
10°	9179.5	9142.9	9101.6	9051.3	9019.3	8982.7	8946.0	8918.7	8877.4	8854.4	8836.1
12.5°	9110.9	9055.8	9019.3	8964.3	8909.4	8877.4	8827.1	8795.0	8753.8	8708.0	8680.5
15°	9046.8	8987.3	8936.9	8877.4	8817.8	8781.3	8721.7	8685.2	8625.6	8579.8	8547.8
17.5°	8950.7	8900.2	8845.4	8772.0	8717.2	8671.4	8607.2	8561.6	8506.5	8447.0	8414.9
20°	8849.9	8790.3	8735.5	8662.2	8607.2	8552.3	8488.2	8437.9	8373.7	8318.8	8282.3
22.5°	8717.2	8648.4	8602.6	8529.3	8465.3	8405.9	8346.3	8286.8	8227.2	8181.5	8140.2
25°	8524.8	8451.5	8401.2	8341.6	8282.3	8236.5	8163.2	8126.6	8067.1	8025.8	7984.5
27.5°	8250.0	8195.2	8149.4	8089.9	8039.6	8003.0	7948.0	7911.4	7860.9	7824.3	7792.3
30°	7847.3	7801.5	7760.3	7700.7	7664.2	7632.1	7581.6	7549.6	7513.0	7471.8	7462.7
32.5°	7307.1	7270.3	7229.2	7188.0	7160.4	7142.2	7100.9	7082.6	7046.1	7023.1	7000.3
35°	6492.0	6460.0	6437.2	6418.9	6409.7	6414.2	6405.1	6423.4	6432.5	6427.9	6432.5
37.5°	5425.4	5406.9	5416.2	5429.9	5475.7	5535.3	5590.1	5672.5	5727.5	5782.5	5832.8
40°	4235.0	4248.7	4285.3	4367.6	4486.7	4619.6	4743.2	4898.9	5054.5	5164.4	5265.0
42.5°	3195.7	3237.0	3328.4	3447.5	3626.1	3822.8	4015.3	4244.0	4431.9	4614.9	4743.2
45°	2403.6	2458.5	2577.6	2742.5	2939.2	3168.2	3410.9	3667.2	3891.6	4079.3	4221.2
47.5°	1872.6	1922.9	2042.0	2216.0	2458.5	2696.7	2948.5	3214.0	3447.5	3630.6	3754.3
50°	1478.7	1542.8	1648.2	1831.3	2074.1	2325.8	2586.8	2847.6	3067.5	3223.2	3333.1
52.5°	1162.9	1222.5	1323.1	1515.5	1762.7	2014.5	2257.0	2513.5	2705.7	2856.9	2930.2
55°	901.9	956.9	1062.1	1222.5	1455.9	1703.2	1945.7	2165.6	2344.1	2454.0	2522.7
57.5°	686.7	728.0	801.3	961.5	1172.1	1400.9	1607.1	1826.8	1964.2	2042.0	2087.6
60°	522.0	554.0	631.9	755.5	947.7	1144.6	1318.6	1483.5	1593.3	1657.4	1703.2
62.5°	393.7	430.4	485.3	590.6	737.0	897.4	1043.8	1167.4	1259.0	1300.3	1332.3
65°	270.0	297.6	338.8	421.2	544.8	659.2	773.8	865.4	924.9	970.7	989.0
67.5°	201.5	219.7	242.7	306.8	393.7	485.3	563.1	627.2	691.4	709.7	741.7
70°	151.1	164.9	187.7	233.5	283.8	347.9	412.1	448.7	494.5	526.5	535.8
72.5°	96.1	100.6	123.6	151.1	192.2	233.5	274.8	306.8	334.3	352.6	361.6
75°	55.0	82.4	82.4	109.9	137.4	155.7	183.2	206.0	219.7	233.5	233.5
77.5°	36.6	50.3	55.0	68.6	82.4	105.3	128.1	141.9	155.7	160.2	160.2
80°	32.0	36.6	36.6	50.3	59.5	77.8	91.6	96.1	105.3	109.9	119.1
82.5°	13.8	18.3	22.8	36.6	41.3	41.3	55.0	59.5	68.6	73.3	73.3
85°	4.5	9.2	9.2	13.8	22.8	27.5	32.0	36.6	41.3	41.3	45.8
87.5°	4.5	4.5	0.0	4.5	9.2	9.2	18.3	18.3	18.3	27.5	27.5
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: P248757

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4	9376.4
2.5°	9294.0	9298.6	9280.3	9275.8	9266.5	9271.1	9280.3
5°	9124.6	9129.2	9110.9	9092.6	9092.6	9087.9	9092.6
7.5°	8964.3	8969.0	8941.5	8932.2	8913.9	8918.7	8918.7
10°	8804.1	8804.1	8763.0	8758.3	8744.5	8740.0	8740.0
12.5°	8648.4	8634.7	8602.6	8584.4	8593.6	8566.1	8566.1
15°	8511.0	8488.2	8447.0	8433.2	8410.4	8401.2	8401.2
17.5°	8369.1	8350.9	8314.3	8286.8	8259.3	8254.8	8259.3
20°	8231.8	8213.5	8167.7	8149.4	8126.6	8126.6	8117.4
22.5°	8094.4	8076.1	8035.0	8021.3	7989.2	7989.2	7993.8
25°	7952.5	7938.7	7892.9	7883.9	7879.4	7860.9	7870.1
27.5°	7760.3	7751.0	7714.5	7700.7	7682.4	7677.9	7687.0
30°	7407.7	7393.9	7366.6	7352.8	7320.8	7325.3	7334.4
32.5°	6968.2	6949.9	6913.2	6899.4	6872.1	6862.9	6867.4
35°	6418.9	6405.1	6373.1	6373.1	6345.6	6336.4	6345.6
37.5°	5860.3	5873.9	5860.3	5873.9	5860.3	5855.6	5860.3
40°	5333.8	5384.1	5393.2	5443.7	5425.4	5452.7	5448.2
42.5°	4830.1	4912.5	4944.7	4985.8	4976.7	4995.0	5008.7
45°	4321.9	4390.6	4422.7	4450.2	4454.7	4463.9	4468.5
47.5°	3841.1	3896.2	3900.7	3932.7	3928.2	3928.2	3941.9
50°	3392.6	3429.2	3438.2	3461.2	3442.9	3433.7	3438.2
52.5°	2976.0	3012.5	3003.3	3012.5	2989.7	2980.5	2985.0
55°	2550.1	2568.4	2568.4	2568.4	2541.0	2541.0	2541.0
57.5°	2115.1	2119.8	2110.6	2115.1	2110.6	2083.1	2078.6
60°	1716.9	1716.9	1712.2	1716.9	1703.2	1689.4	1689.4
62.5°	1341.4	1350.6	1368.9	1350.6	1341.4	1350.6	1336.8
65°	1002.7	1021.0	1016.3	1025.5	1021.0	1021.0	1011.8
67.5°	755.5	760.0	764.5	769.2	769.2	769.2	769.2
70°	554.0	567.8	563.1	563.1	563.1	563.1	590.6
72.5°	370.9	389.1	384.6	393.7	393.7	402.9	393.7
75°	251.8	270.0	261.0	274.8	270.0	261.0	283.8
77.5°	169.4	178.6	183.2	187.7	183.2	178.6	183.2
80°	119.1	128.1	123.6	128.1	128.1	128.1	132.9
82.5°	73.3	87.1	82.4	87.1	82.4	87.1	87.1
85°	50.3	55.0	45.8	55.0	50.3	50.3	59.5
87.5°	32.0	27.5	27.5	32.0	27.5	32.0	27.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)