

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: P249072

Luminaire Tested: **LD8B200D010 ER8B200927 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249072
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 ER8B200927 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16764.7 lumens
Efficiency: N/A
Efficacy: 75.1 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

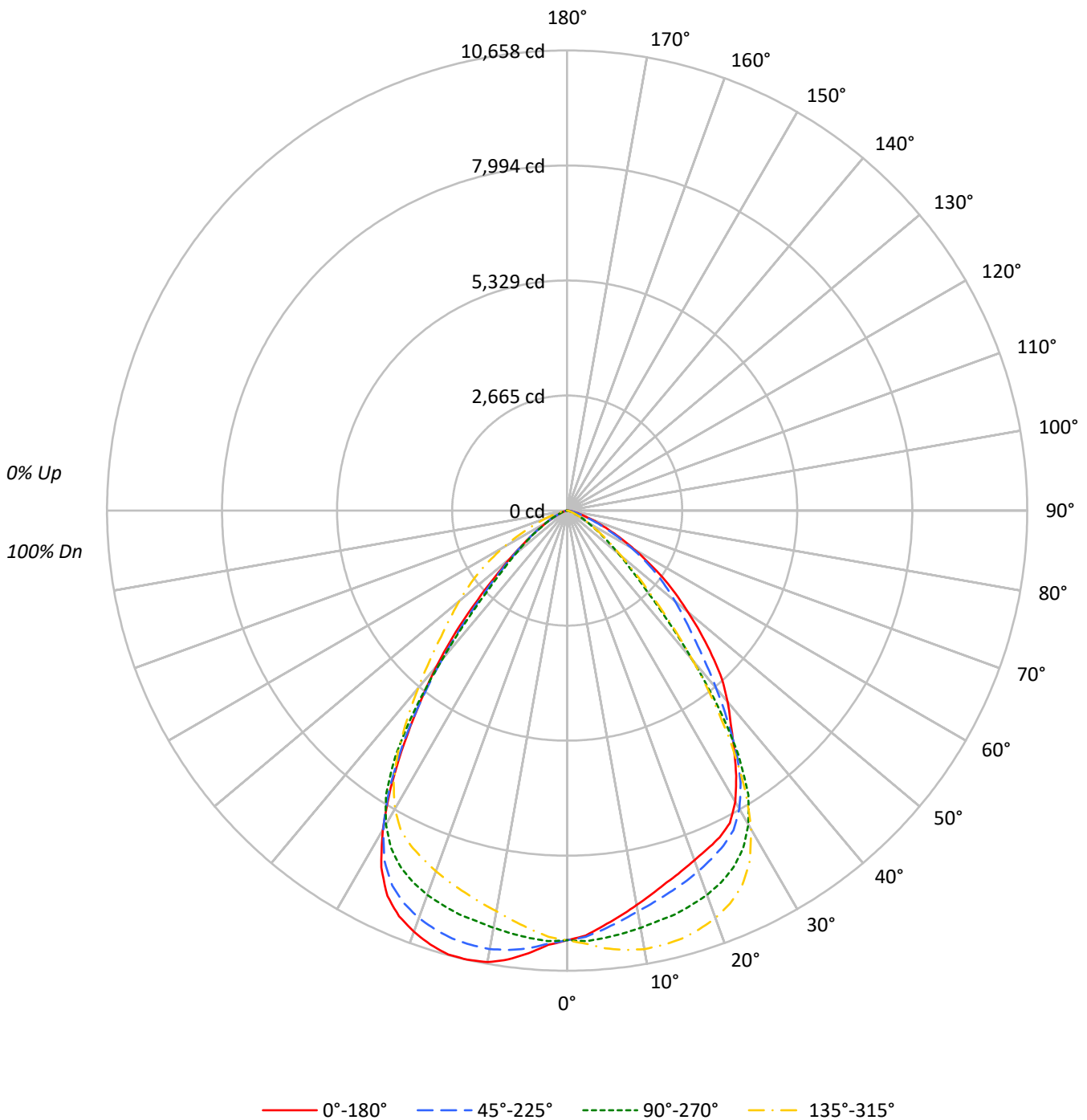
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	947.3	5.7
10°-20°	2743.2	16.4
20°-30°	4153.8	24.8
30°-40°	4163.2	24.8
40°-50°	2614.3	15.6
50°-60°	1393.1	8.3
60°-70°	572.9	3.4
70°-80°	151.3	0.9
80°-90°	25.6	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7844.4	46.8
0°-40°	12007.5	71.6
0°-60°	16014.9	95.5
0°-90°	16764.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16764.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9953	9953	9953	9953	9953	
5°	9652	9938	10293	9938	9652	910
15°	8918	9681	10643	9681	8918	2522
25°	8354	9117	9851	9117	8354	3831
35°	6736	6925	6570	6925	6736	4220
45°	4743	2537	2935	2537	4743	3648
55°	2697	938	991	938	2697	2405
65°	1074	287	262	287	1074	1114
75°	301	58	49	58	301	341
85°	63	0	5	0	63	69
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°	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6
2.5°	9850.7	9840.9	9836.1	9845.9	9850.7	9870.1	9865.2	9874.9	9874.9	9879.9	9889.5
5°	9651.5	9646.4	9651.5	9651.5	9670.8	9690.3	9685.5	9700.1	9709.6	9734.1	9743.6
7.5°	9466.9	9466.9	9461.8	9481.3	9491.1	9520.2	9515.2	9539.7	9554.3	9578.5	9612.4
10°	9277.2	9277.2	9282.0	9296.6	9301.6	9345.3	9345.3	9379.2	9398.6	9423.0	9466.9
12.5°	9092.6	9092.6	9121.7	9111.9	9131.4	9165.4	9180.0	9214.0	9243.2	9291.8	9335.6
15°	8917.5	8917.5	8927.3	8951.5	8966.1	9010.0	9034.2	9073.1	9107.2	9155.8	9219.0
17.5°	8766.9	8762.2	8766.9	8796.2	8825.3	8864.1	8883.6	8932.2	8966.1	9029.4	9087.8
20°	8616.3	8626.1	8626.1	8650.4	8669.7	8718.3	8737.8	8791.3	8830.1	8888.3	8956.6
22.5°	8485.1	8480.2	8480.2	8514.3	8528.8	8572.5	8591.8	8640.4	8684.3	8732.9	8796.2
25°	8353.9	8344.0	8363.7	8368.4	8378.1	8426.7	8441.3	8475.3	8519.1	8562.9	8626.1
27.5°	8159.4	8149.8	8154.7	8174.0	8188.6	8227.5	8237.2	8271.2	8305.2	8344.0	8397.7
30°	7785.2	7775.6	7770.8	7804.8	7819.4	7848.3	7863.0	7921.4	7931.0	7974.8	8013.6
32.5°	7289.6	7284.7	7294.5	7323.5	7338.2	7377.1	7396.5	7430.5	7454.7	7479.1	7517.9
35°	6735.6	6725.8	6735.6	6764.8	6764.8	6798.8	6813.4	6827.8	6823.0	6827.8	6818.2
37.5°	6220.6	6215.5	6220.6	6235.0	6220.6	6235.0	6220.6	6191.3	6137.9	6079.5	6021.1
40°	5783.1	5787.9	5758.9	5778.2	5724.7	5715.1	5661.7	5588.7	5481.8	5365.2	5200.0
42.5°	5316.6	5302.0	5282.6	5292.2	5248.6	5214.4	5127.0	5034.7	4898.6	4704.3	4504.8
45°	4743.1	4738.3	4728.5	4723.8	4694.5	4660.5	4587.5	4480.7	4330.0	4130.8	3892.6
47.5°	4184.2	4169.6	4169.6	4174.4	4140.4	4135.6	4077.2	3985.0	3853.8	3659.4	3411.6
50°	3649.5	3644.8	3654.6	3673.9	3649.5	3639.9	3601.1	3537.9	3421.4	3256.1	3022.6
52.5°	3168.5	3163.7	3173.5	3197.7	3187.9	3197.7	3158.9	3110.3	3032.4	2872.0	2668.0
55°	2697.2	2697.2	2697.2	2726.2	2726.2	2726.2	2706.9	2677.8	2604.8	2488.2	2298.7
57.5°	2206.4	2211.2	2240.3	2245.2	2240.3	2250.1	2245.2	2215.9	2167.5	2085.0	1939.0
60°	1793.2	1793.2	1807.9	1822.5	1817.4	1822.5	1822.5	1807.9	1759.3	1691.2	1574.7
62.5°	1419.0	1433.6	1423.8	1433.6	1453.0	1433.6	1423.8	1414.2	1380.3	1336.4	1239.2
65°	1073.9	1083.7	1083.7	1088.6	1078.8	1083.7	1064.4	1049.7	1030.4	981.8	918.6
67.5°	816.5	816.5	816.5	816.5	811.6	806.7	801.9	787.3	753.3	733.9	665.7
70°	626.8	597.7	597.7	597.7	597.7	602.7	588.0	568.7	558.9	524.9	476.3
72.5°	417.8	427.6	417.8	417.8	408.3	413.1	393.6	383.8	374.3	354.8	325.7
75°	301.3	277.1	286.7	291.6	277.1	286.7	267.2	247.8	247.8	233.2	218.6
77.5°	194.4	189.7	194.4	199.2	194.4	189.7	179.8	170.0	170.0	165.3	150.6
80°	141.1	136.0	136.0	136.0	131.2	136.0	126.4	126.4	116.7	111.8	102.0
82.5°	92.4	92.4	87.4	92.4	87.4	92.4	77.9	77.9	77.9	72.8	63.2
85°	63.2	53.4	53.4	58.4	48.6	58.4	53.4	48.6	43.8	43.8	38.8
87.5°	29.2	34.0	29.2	34.0	29.2	29.2	34.0	29.2	29.2	19.3	19.3
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°	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6
2.5°	9904.1	9908.9	9908.9	9928.5	9938.1	9942.9	9942.9	9981.9	9967.3	9977.1	9986.7
5°	9763.3	9792.2	9802.1	9802.1	9855.4	9874.9	9894.3	9938.1	9942.9	9972.1	10006.1
7.5°	9627.1	9661.1	9680.6	9724.3	9758.2	9792.2	9850.7	9879.9	9908.9	9947.9	9991.5
10°	9495.8	9534.8	9573.6	9607.6	9661.1	9704.8	9743.6	9811.7	9845.9	9899.3	9957.5
12.5°	9369.6	9423.0	9457.0	9515.2	9573.6	9612.4	9670.8	9734.1	9787.5	9840.9	9908.9
15°	9257.8	9321.0	9359.8	9423.0	9486.2	9539.7	9602.9	9680.6	9719.4	9782.7	9845.9
17.5°	9136.1	9204.4	9253.0	9311.2	9389.0	9447.2	9500.8	9578.5	9627.1	9695.0	9768.0
20°	9010.0	9078.0	9136.1	9194.6	9272.4	9330.6	9393.9	9471.6	9525.0	9593.1	9651.5
22.5°	8859.4	8922.6	8985.6	9053.6	9131.4	9180.0	9253.0	9321.0	9379.2	9442.5	9500.8
25°	8664.9	8742.7	8791.3	8854.3	8917.5	8971.0	9048.7	9116.8	9165.4	9223.8	9277.2
27.5°	8436.5	8494.9	8533.7	8587.1	8650.4	8698.9	8757.1	8825.3	8873.9	8927.3	8966.1
30°	8047.6	8101.2	8135.2	8174.0	8237.2	8281.0	8329.6	8392.6	8426.7	8465.6	8499.7
32.5°	7537.4	7581.2	7600.5	7629.8	7673.5	7717.2	7756.2	7809.5	7824.2	7848.3	7848.3
35°	6798.8	6808.4	6803.7	6813.4	6832.8	6857.0	6891.1	6925.0	6944.4	6944.4	6930.0
37.5°	5933.7	5875.5	5812.3	5763.7	5749.1	5739.3	5758.9	5773.3	5792.8	5802.5	5778.2
40°	5034.7	4903.5	4762.5	4636.1	4548.7	4509.9	4495.3	4504.8	4504.8	4538.9	4538.9
42.5°	4262.1	4057.8	3849.0	3659.4	3533.0	3435.9	3392.1	3392.1	3396.9	3421.4	3435.9
45°	3620.6	3363.0	3119.8	2911.0	2736.0	2609.5	2551.4	2536.8	2532.0	2541.6	2575.6
47.5°	3129.6	2862.5	2609.5	2352.2	2167.5	2041.1	1987.6	1968.1	1948.7	1968.1	1973.1
50°	2745.8	2468.8	2201.5	1943.9	1749.5	1637.7	1569.6	1540.5	1535.6	1535.6	1545.4
52.5°	2395.8	2138.3	1871.1	1608.6	1404.4	1297.6	1234.4	1219.8	1200.4	1219.8	1219.8
55°	2065.3	1807.9	1545.4	1297.6	1127.4	1015.8	957.4	937.9	928.1	942.8	942.8
57.5°	1705.8	1487.0	1244.1	1020.6	850.5	772.8	728.9	704.7	699.8	709.5	699.8
60°	1399.6	1215.0	1006.0	801.9	670.7	588.0	554.1	544.3	534.5	544.3	544.3
62.5°	1108.0	952.5	782.3	626.8	515.0	456.9	417.8	417.8	413.1	413.1	417.8
65°	821.4	699.8	578.2	447.1	359.7	315.9	286.7	286.7	281.8	286.7	281.8
67.5°	597.7	515.0	417.8	325.7	257.6	233.2	213.9	199.2	209.0	199.2	194.4
70°	437.5	369.2	301.3	247.8	199.2	175.0	160.4	155.5	145.8	145.8	145.8
72.5°	291.6	247.8	204.1	160.4	131.2	106.8	102.0	92.4	82.6	87.4	97.2
75°	194.4	165.3	145.8	116.7	87.4	87.4	58.4	58.4	48.6	58.4	43.8
77.5°	136.0	111.8	87.4	72.8	58.4	53.4	38.8	38.8	34.0	34.0	34.0
80°	97.2	82.6	63.2	53.4	38.8	38.8	34.0	29.2	24.2	24.2	29.2
82.5°	58.4	43.8	43.8	38.8	24.2	19.3	14.6	19.3	9.8	9.8	9.8
85°	34.0	29.2	24.2	14.6	9.8	9.8	4.8	0.0	4.8	4.8	0.0
87.5°	19.3	9.8	9.8	4.8	0.0	4.8	4.8	0.0	0.0	0.0	9.8
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°	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6
2.5°	10011.2	10006.1	10015.9	10015.9	10045.1	10040.1	10054.7	10054.7	10045.1	10050.0	10069.3
5°	10045.1	10059.8	10088.8	10113.1	10156.7	10176.3	10200.5	10224.9	10229.7	10244.4	10259.0
7.5°	10045.1	10093.7	10127.7	10171.4	10229.7	10263.7	10317.2	10360.9	10380.4	10404.6	10433.8
10°	10025.6	10074.2	10137.4	10186.0	10259.0	10312.3	10365.8	10433.8	10462.9	10501.8	10540.8
12.5°	9986.7	10040.1	10108.1	10171.4	10253.9	10302.5	10370.6	10433.8	10477.6	10531.0	10574.8
15°	9928.5	9991.5	10054.7	10117.9	10205.3	10263.7	10326.9	10399.7	10443.6	10501.8	10540.8
17.5°	9836.1	9904.1	9962.6	10020.7	10103.3	10171.4	10229.7	10297.8	10341.6	10390.2	10443.6
20°	9724.3	9787.5	9850.7	9899.3	9981.9	10040.1	10103.3	10166.5	10200.5	10210.4	10293.0
22.5°	9583.4	9627.1	9675.7	9753.5	9802.1	9855.4	9913.9	9972.1	10006.1	10059.8	10088.8
25°	9350.0	9393.9	9447.2	9481.3	9539.7	9583.4	9641.7	9704.8	9724.3	9763.3	9792.2
27.5°	9024.5	9048.7	9073.1	9102.2	9136.1	9160.5	9194.6	9223.8	9243.2	9262.6	9282.0
30°	8509.3	8509.3	8509.3	8489.9	8504.4	8519.1	8523.9	8519.1	8519.1	8514.3	8514.3
32.5°	7829.0	7790.2	7746.4	7707.6	7693.0	7673.5	7663.7	7649.1	7624.9	7610.4	7615.1
35°	6910.4	6823.0	6769.6	6721.0	6682.2	6653.0	6638.4	6623.8	6619.0	6599.6	6580.0
37.5°	5763.7	5700.5	5661.7	5632.4	5598.4	5569.2	5574.0	5579.0	5593.4	5583.8	5588.7
40°	4548.7	4534.1	4548.7	4514.6	4504.8	4514.6	4538.9	4573.1	4592.5	4611.9	4645.9
42.5°	3460.2	3484.4	3518.6	3518.6	3533.0	3552.5	3581.6	3635.1	3664.1	3698.2	3737.1
45°	2604.8	2634.0	2677.8	2692.2	2702.0	2726.2	2760.4	2804.1	2823.4	2852.7	2886.6
47.5°	2007.1	2026.5	2050.8	2075.1	2099.4	2109.2	2143.1	2143.1	2167.5	2186.9	2196.6
50°	1564.9	1584.2	1603.7	1618.2	1628.1	1642.6	1652.3	1666.8	1671.6	1681.4	1686.3
52.5°	1224.6	1249.0	1249.0	1258.5	1273.2	1287.8	1283.0	1287.8	1292.6	1292.6	1307.2
55°	957.4	957.4	972.0	972.0	981.8	976.7	981.8	981.8	981.8	981.8	986.5
57.5°	714.3	719.3	733.9	724.2	719.3	728.9	719.3	728.9	724.2	733.9	719.3
60°	549.1	549.1	554.1	554.1	558.9	558.9	558.9	554.1	554.1	549.1	549.1
62.5°	413.1	417.8	422.9	417.8	417.8	417.8	413.1	413.1	408.3	403.3	403.3
65°	277.1	272.2	281.8	272.2	277.1	277.1	272.2	277.1	262.5	267.2	262.5
67.5°	199.2	194.4	189.7	194.4	189.7	184.6	184.6	189.7	194.4	179.8	179.8
70°	131.2	136.0	131.2	136.0	141.1	141.1	136.0	131.2	136.0	126.4	131.2
72.5°	82.6	82.6	82.6	82.6	82.6	87.4	87.4	87.4	77.9	77.9	72.8
75°	38.8	53.4	43.8	38.8	53.4	53.4	48.6	48.6	43.8	43.8	43.8
77.5°	38.8	29.2	29.2	29.2	29.2	29.2	29.2	29.2	24.2	29.2	24.2
80°	19.3	19.3	19.3	14.6	19.3	19.3	24.2	19.3	19.3	14.6	24.2
82.5°	9.8	9.8	9.8	0.0	4.8	9.8	9.8	4.8	9.8	9.8	4.8
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: P249072

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6
2.5°	10064.5	10059.8	10064.5	10069.3	10064.5	10059.8	10064.5	10069.3	10050.0	10045.1	10054.7
5°	10278.3	10278.3	10287.9	10293.0	10287.9	10278.3	10278.3	10259.0	10244.4	10229.7	10224.9
7.5°	10462.9	10472.7	10482.4	10487.1	10482.4	10472.7	10462.9	10433.8	10404.6	10380.4	10360.9
10°	10574.8	10589.4	10608.8	10618.4	10608.8	10589.4	10574.8	10540.8	10501.8	10462.9	10433.8
12.5°	10623.4	10638.0	10662.2	10657.5	10662.2	10638.0	10623.4	10574.8	10531.0	10477.6	10433.8
15°	10589.4	10608.8	10633.1	10642.8	10633.1	10608.8	10589.4	10540.8	10501.8	10443.6	10399.7
17.5°	10482.4	10511.6	10526.2	10540.8	10526.2	10511.6	10482.4	10443.6	10390.2	10341.6	10297.8
20°	10336.6	10356.2	10375.5	10380.4	10375.5	10356.2	10336.6	10293.0	10210.4	10200.5	10166.5
22.5°	10127.7	10142.3	10186.0	10171.4	10186.0	10142.3	10127.7	10088.8	10059.8	10006.1	9972.1
25°	9826.3	9840.9	9845.9	9850.7	9845.9	9840.9	9826.3	9792.2	9763.3	9724.3	9704.8
27.5°	9306.4	9306.4	9316.0	9321.0	9316.0	9306.4	9306.4	9282.0	9262.6	9243.2	9223.8
30°	8519.1	8519.1	8519.1	8543.5	8519.1	8519.1	8519.1	8514.3	8514.3	8519.1	8519.1
32.5°	7610.4	7600.5	7590.9	7600.5	7590.9	7600.5	7610.4	7615.1	7610.4	7624.9	7649.1
35°	6580.0	6575.2	6589.8	6570.3	6589.8	6575.2	6580.0	6580.0	6599.6	6619.0	6623.8
37.5°	5593.4	5583.8	5603.3	5583.8	5603.3	5583.8	5593.4	5588.7	5583.8	5593.4	5579.0
40°	4655.7	4665.3	4665.3	4704.3	4665.3	4665.3	4655.7	4645.9	4611.9	4592.5	4573.1
42.5°	3756.6	3785.7	3776.0	3805.2	3776.0	3785.7	3756.6	3737.1	3698.2	3664.1	3635.1
45°	2906.0	2925.7	2925.7	2935.2	2925.7	2925.7	2906.0	2886.6	2852.7	2823.4	2804.1
47.5°	2230.5	2230.5	2230.5	2235.5	2230.5	2230.5	2230.5	2196.6	2186.9	2167.5	2143.1
50°	1696.0	1700.9	1705.8	1710.7	1705.8	1700.9	1696.0	1686.3	1681.4	1671.6	1666.8
52.5°	1302.4	1307.2	1297.6	1307.2	1297.6	1307.2	1302.4	1307.2	1292.6	1292.6	1287.8
55°	986.5	981.8	986.5	991.4	986.5	981.8	986.5	986.5	981.8	981.8	981.8
57.5°	724.2	714.3	714.3	714.3	714.3	714.3	724.2	719.3	733.9	724.2	728.9
60°	539.4	544.3	544.3	549.1	544.3	544.3	539.4	549.1	549.1	554.1	554.1
62.5°	398.5	413.1	403.3	413.1	403.3	413.1	398.5	403.3	403.3	408.3	413.1
65°	257.6	257.6	257.6	262.5	257.6	257.6	257.6	262.5	267.2	262.5	277.1
67.5°	175.0	179.8	189.7	184.6	189.7	179.8	175.0	179.8	179.8	194.4	189.7
70°	141.1	126.4	126.4	141.1	126.4	126.4	141.1	131.2	126.4	136.0	131.2
72.5°	82.6	72.8	82.6	82.6	82.6	72.8	82.6	72.8	77.9	77.9	87.4
75°	43.8	38.8	34.0	48.6	34.0	38.8	43.8	43.8	43.8	43.8	48.6
77.5°	29.2	24.2	34.0	34.0	34.0	24.2	29.2	24.2	29.2	24.2	29.2
80°	14.6	19.3	14.6	24.2	14.6	19.3	14.6	24.2	14.6	19.3	19.3
82.5°	4.8	9.8	9.8	9.8	9.8	9.8	4.8	4.8	9.8	9.8	4.8
85°	0.0	9.8	4.8	4.8	4.8	9.8	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	0.0	0.0	4.8	0.0	0.0	4.8	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: P249072

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6
2.5°	10054.7	10040.1	10045.1	10015.9	10015.9	10006.1	10011.2	9986.7	9977.1	9967.3	9981.9
5°	10200.5	10176.3	10156.7	10113.1	10088.8	10059.8	10045.1	10006.1	9972.1	9942.9	9938.1
7.5°	10317.2	10263.7	10229.7	10171.4	10127.7	10093.7	10045.1	9991.5	9947.9	9908.9	9879.9
10°	10365.8	10312.3	10259.0	10186.0	10137.4	10074.2	10025.6	9957.5	9899.3	9845.9	9811.7
12.5°	10370.6	10302.5	10253.9	10171.4	10108.1	10040.1	9986.7	9908.9	9840.9	9787.5	9734.1
15°	10326.9	10263.7	10205.3	10117.9	10054.7	9991.5	9928.5	9845.9	9782.7	9719.4	9680.6
17.5°	10229.7	10171.4	10103.3	10020.7	9962.6	9904.1	9836.1	9768.0	9695.0	9627.1	9578.5
20°	10103.3	10040.1	9981.9	9899.3	9850.7	9787.5	9724.3	9651.5	9593.1	9525.0	9471.6
22.5°	9913.9	9855.4	9802.1	9753.5	9675.7	9627.1	9583.4	9500.8	9442.5	9379.2	9321.0
25°	9641.7	9583.4	9539.7	9481.3	9447.2	9393.9	9350.0	9277.2	9223.8	9165.4	9116.8
27.5°	9194.6	9160.5	9136.1	9102.2	9073.1	9048.7	9024.5	8966.1	8927.3	8873.9	8825.3
30°	8523.9	8519.1	8504.4	8489.9	8509.3	8509.3	8509.3	8499.7	8465.6	8426.7	8392.6
32.5°	7663.7	7673.5	7693.0	7707.6	7746.4	7790.2	7829.0	7848.3	7848.3	7824.2	7809.5
35°	6638.4	6653.0	6682.2	6721.0	6769.6	6823.0	6910.4	6930.0	6944.4	6944.4	6925.0
37.5°	5574.0	5569.2	5598.4	5632.4	5661.7	5700.5	5763.7	5778.2	5802.5	5792.8	5773.3
40°	4538.9	4514.6	4504.8	4514.6	4548.7	4534.1	4548.7	4538.9	4538.9	4504.8	4504.8
42.5°	3581.6	3552.5	3533.0	3518.6	3518.6	3484.4	3460.2	3435.9	3421.4	3396.9	3392.1
45°	2760.4	2726.2	2702.0	2692.2	2677.8	2634.0	2604.8	2575.6	2541.6	2532.0	2536.8
47.5°	2143.1	2109.2	2099.4	2075.1	2050.8	2026.5	2007.1	1973.1	1968.1	1948.7	1968.1
50°	1652.3	1642.6	1628.1	1618.2	1603.7	1584.2	1564.9	1545.4	1535.6	1535.6	1540.5
52.5°	1283.0	1287.8	1273.2	1258.5	1249.0	1249.0	1224.6	1219.8	1219.8	1200.4	1219.8
55°	981.8	976.7	981.8	972.0	972.0	957.4	957.4	942.8	942.8	928.1	937.9
57.5°	719.3	728.9	719.3	724.2	733.9	719.3	714.3	699.8	709.5	699.8	704.7
60°	558.9	558.9	558.9	554.1	554.1	549.1	549.1	544.3	544.3	534.5	544.3
62.5°	413.1	417.8	417.8	417.8	422.9	417.8	413.1	417.8	413.1	413.1	417.8
65°	272.2	277.1	277.1	272.2	281.8	272.2	277.1	281.8	286.7	281.8	286.7
67.5°	184.6	184.6	189.7	194.4	189.7	194.4	199.2	194.4	199.2	209.0	199.2
70°	136.0	141.1	141.1	136.0	131.2	136.0	131.2	145.8	145.8	145.8	155.5
72.5°	87.4	87.4	82.6	82.6	82.6	82.6	82.6	97.2	87.4	82.6	92.4
75°	48.6	53.4	53.4	38.8	43.8	53.4	38.8	43.8	58.4	48.6	58.4
77.5°	29.2	29.2	29.2	29.2	29.2	29.2	38.8	34.0	34.0	34.0	38.8
80°	24.2	19.3	19.3	14.6	19.3	19.3	19.3	29.2	24.2	24.2	29.2
82.5°	9.8	9.8	4.8	0.0	9.8	9.8	9.8	9.8	9.8	9.8	19.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	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: P249072

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6
2.5°	9942.9	9942.9	9938.1	9928.5	9908.9	9908.9	9904.1	9889.5	9879.9	9874.9	9874.9
5°	9894.3	9874.9	9855.4	9802.1	9802.1	9792.2	9763.3	9743.6	9734.1	9709.6	9700.1
7.5°	9850.7	9792.2	9758.2	9724.3	9680.6	9661.1	9627.1	9612.4	9578.5	9554.3	9539.7
10°	9743.6	9704.8	9661.1	9607.6	9573.6	9534.8	9495.8	9466.9	9423.0	9398.6	9379.2
12.5°	9670.8	9612.4	9573.6	9515.2	9457.0	9423.0	9369.6	9335.6	9291.8	9243.2	9214.0
15°	9602.9	9539.7	9486.2	9423.0	9359.8	9321.0	9257.8	9219.0	9155.8	9107.2	9073.1
17.5°	9500.8	9447.2	9389.0	9311.2	9253.0	9204.4	9136.1	9087.8	9029.4	8966.1	8932.2
20°	9393.9	9330.6	9272.4	9194.6	9136.1	9078.0	9010.0	8956.6	8888.3	8830.1	8791.3
22.5°	9253.0	9180.0	9131.4	9053.6	8985.6	8922.6	8859.4	8796.2	8732.9	8684.3	8640.4
25°	9048.7	8971.0	8917.5	8854.3	8791.3	8742.7	8664.9	8626.1	8562.9	8519.1	8475.3
27.5°	8757.1	8698.9	8650.4	8587.1	8533.7	8494.9	8436.5	8397.7	8344.0	8305.2	8271.2
30°	8329.6	8281.0	8237.2	8174.0	8135.2	8101.2	8047.6	8013.6	7974.8	7931.0	7921.4
32.5°	7756.2	7717.2	7673.5	7629.8	7600.5	7581.2	7537.4	7517.9	7479.1	7454.7	7430.5
35°	6891.1	6857.0	6832.8	6813.4	6803.7	6808.4	6798.8	6818.2	6827.8	6823.0	6827.8
37.5°	5758.9	5739.3	5749.1	5763.7	5812.3	5875.5	5933.7	6021.1	6079.5	6137.9	6191.3
40°	4495.3	4509.9	4548.7	4636.1	4762.5	4903.5	5034.7	5200.0	5365.2	5481.8	5588.7
42.5°	3392.1	3435.9	3533.0	3659.4	3849.0	4057.8	4262.1	4504.8	4704.3	4898.6	5034.7
45°	2551.4	2609.5	2736.0	2911.0	3119.8	3363.0	3620.6	3892.6	4130.8	4330.0	4480.7
47.5°	1987.6	2041.1	2167.5	2352.2	2609.5	2862.5	3129.6	3411.6	3659.4	3853.8	3985.0
50°	1569.6	1637.7	1749.5	1943.9	2201.5	2468.8	2745.8	3022.6	3256.1	3421.4	3537.9
52.5°	1234.4	1297.6	1404.4	1608.6	1871.1	2138.3	2395.8	2668.0	2872.0	3032.4	3110.3
55°	957.4	1015.8	1127.4	1297.6	1545.4	1807.9	2065.3	2298.7	2488.2	2604.8	2677.8
57.5°	728.9	772.8	850.5	1020.6	1244.1	1487.0	1705.8	1939.0	2085.0	2167.5	2215.9
60°	554.1	588.0	670.7	801.9	1006.0	1215.0	1399.6	1574.7	1691.2	1759.3	1807.9
62.5°	417.8	456.9	515.0	626.8	782.3	952.5	1108.0	1239.2	1336.4	1380.3	1414.2
65°	286.7	315.9	359.7	447.1	578.2	699.8	821.4	918.6	981.8	1030.4	1049.7
67.5°	213.9	233.2	257.6	325.7	417.8	515.0	597.7	665.7	733.9	753.3	787.3
70°	160.4	175.0	199.2	247.8	301.3	369.2	437.5	476.3	524.9	558.9	568.7
72.5°	102.0	106.8	131.2	160.4	204.1	247.8	291.6	325.7	354.8	374.3	383.8
75°	58.4	87.4	87.4	116.7	145.8	165.3	194.4	218.6	233.2	247.8	247.8
77.5°	38.8	53.4	58.4	72.8	87.4	111.8	136.0	150.6	165.3	170.0	170.0
80°	34.0	38.8	38.8	53.4	63.2	82.6	97.2	102.0	111.8	116.7	126.4
82.5°	14.6	19.3	24.2	38.8	43.8	43.8	58.4	63.2	72.8	77.9	77.9
85°	4.8	9.8	9.8	14.6	24.2	29.2	34.0	38.8	43.8	43.8	48.6
87.5°	4.8	4.8	0.0	4.8	9.8	9.8	19.3	19.3	19.3	29.2	29.2
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: P249072

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6
2.5°	9865.2	9870.1	9850.7	9845.9	9836.1	9840.9	9850.7
5°	9685.5	9690.3	9670.8	9651.5	9651.5	9646.4	9651.5
7.5°	9515.2	9520.2	9491.1	9481.3	9461.8	9466.9	9466.9
10°	9345.3	9345.3	9301.6	9296.6	9282.0	9277.2	9277.2
12.5°	9180.0	9165.4	9131.4	9111.9	9121.7	9092.6	9092.6
15°	9034.2	9010.0	8966.1	8951.5	8927.3	8917.5	8917.5
17.5°	8883.6	8864.1	8825.3	8796.2	8766.9	8762.2	8766.9
20°	8737.8	8718.3	8669.7	8650.4	8626.1	8626.1	8616.3
22.5°	8591.8	8572.5	8528.8	8514.3	8480.2	8480.2	8485.1
25°	8441.3	8426.7	8378.1	8368.4	8363.7	8344.0	8353.9
27.5°	8237.2	8227.5	8188.6	8174.0	8154.7	8149.8	8159.4
30°	7863.0	7848.3	7819.4	7804.8	7770.8	7775.6	7785.2
32.5°	7396.5	7377.1	7338.2	7323.5	7294.5	7284.7	7289.6
35°	6813.4	6798.8	6764.8	6764.8	6735.6	6725.8	6735.6
37.5°	6220.6	6235.0	6220.6	6235.0	6220.6	6215.5	6220.6
40°	5661.7	5715.1	5724.7	5778.2	5758.9	5787.9	5783.1
42.5°	5127.0	5214.4	5248.6	5292.2	5282.6	5302.0	5316.6
45°	4587.5	4660.5	4694.5	4723.8	4728.5	4738.3	4743.1
47.5°	4077.2	4135.6	4140.4	4174.4	4169.6	4169.6	4184.2
50°	3601.1	3639.9	3649.5	3673.9	3654.6	3644.8	3649.5
52.5°	3158.9	3197.7	3187.9	3197.7	3173.5	3163.7	3168.5
55°	2706.9	2726.2	2726.2	2726.2	2697.2	2697.2	2697.2
57.5°	2245.2	2250.1	2240.3	2245.2	2240.3	2211.2	2206.4
60°	1822.5	1822.5	1817.4	1822.5	1807.9	1793.2	1793.2
62.5°	1423.8	1433.6	1453.0	1433.6	1423.8	1433.6	1419.0
65°	1064.4	1083.7	1078.8	1088.6	1083.7	1083.7	1073.9
67.5°	801.9	806.7	811.6	816.5	816.5	816.5	816.5
70°	588.0	602.7	597.7	597.7	597.7	597.7	626.8
72.5°	393.6	413.1	408.3	417.8	417.8	427.6	417.8
75°	267.2	286.7	277.1	291.6	286.7	277.1	301.3
77.5°	179.8	189.7	194.4	199.2	194.4	189.7	194.4
80°	126.4	136.0	131.2	136.0	136.0	136.0	141.1
82.5°	77.9	92.4	87.4	92.4	87.4	92.4	92.4
85°	53.4	58.4	48.6	58.4	53.4	53.4	63.2
87.5°	34.0	29.2	29.2	34.0	29.2	34.0	29.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)