

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: P248649

Luminaire Tested: **LD8B200D010 ER8B2009730 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248649
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 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15933.0 lumens
Efficiency: N/A
Efficacy: 71.4 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

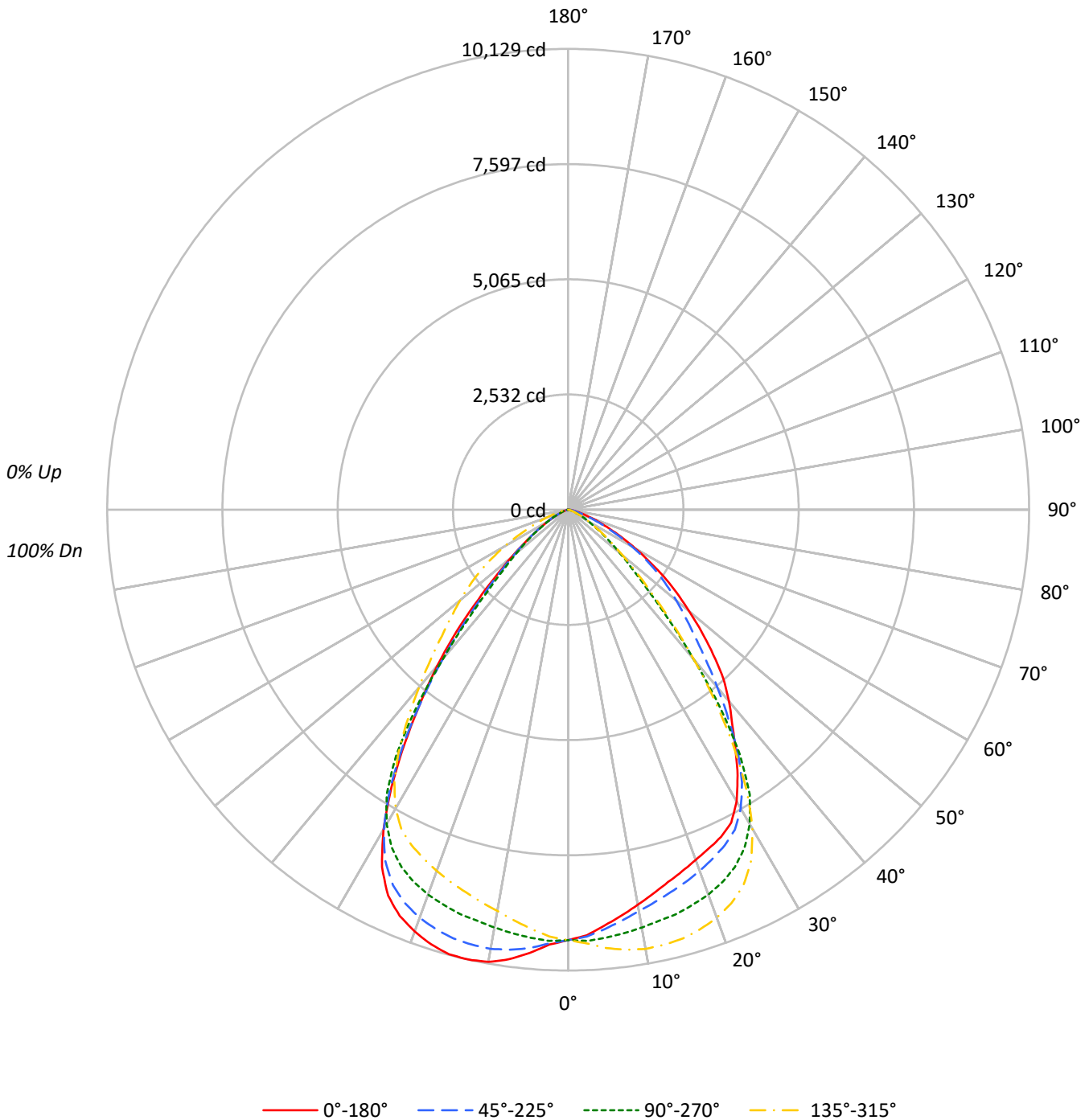
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	900.3	5.7
10°-20°	2607.1	16.4
20°-30°	3947.8	24.8
30°-40°	3956.6	24.8
40°-50°	2484.6	15.6
50°-60°	1324.0	8.3
60°-70°	544.5	3.4
70°-80°	143.8	0.9
80°-90°	24.3	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°	7455.2	46.8
0°-40°	11411.8	71.6
0°-60°	15220.4	95.5
0°-90°	15933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15933.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9459	9459	9459	9459	9459	
5°	9173	9445	9782	9445	9173	865
15°	8475	9200	10115	9200	8475	2397
25°	7939	8664	9362	8664	7939	3641
35°	6401	6582	6244	6582	6401	4010
45°	4508	2411	2790	2411	4508	3467
55°	2563	891	942	891	2563	2285
65°	1021	272	249	272	1021	1059
75°	286	56	46	56	286	324
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°	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9
2.5°	9362.0	9352.6	9348.1	9357.4	9362.0	9380.4	9375.8	9385.0	9385.0	9389.7	9398.8
5°	9172.6	9167.9	9172.6	9172.6	9191.1	9209.5	9204.9	9218.8	9227.9	9251.1	9260.3
7.5°	8997.1	8997.1	8992.4	9010.8	9020.2	9047.9	9043.2	9066.3	9080.2	9103.2	9135.5
10°	8816.9	8816.9	8821.5	8835.4	8840.1	8881.6	8881.6	8913.9	8932.3	8955.5	8997.1
12.5°	8641.5	8641.5	8669.2	8659.9	8678.3	8710.7	8724.5	8756.9	8784.6	8830.8	8872.4
15°	8475.1	8475.1	8484.4	8507.4	8521.3	8562.9	8586.0	8623.0	8655.3	8701.5	8761.6
17.5°	8332.0	8327.4	8332.0	8359.7	8387.5	8424.4	8442.8	8489.0	8521.3	8581.4	8636.9
20°	8188.8	8198.1	8198.1	8221.1	8239.6	8285.8	8304.2	8355.2	8392.0	8447.4	8512.2
22.5°	8064.1	8059.5	8059.5	8091.9	8105.7	8147.2	8165.6	8211.8	8253.5	8299.7	8359.7
25°	7939.4	7930.1	7948.7	7953.3	7962.4	8008.6	8022.5	8054.8	8096.4	8138.1	8198.1
27.5°	7754.6	7745.5	7750.1	7768.5	7782.4	7819.3	7828.6	7860.9	7893.2	7930.1	7981.0
30°	7398.9	7389.8	7385.2	7417.6	7431.4	7459.0	7472.9	7528.4	7537.5	7579.1	7616.0
32.5°	6927.8	6923.3	6932.6	6960.2	6974.0	7011.1	7029.6	7061.9	7084.9	7108.1	7144.9
35°	6401.4	6392.1	6401.4	6429.2	6429.2	6461.5	6475.4	6489.1	6484.5	6489.1	6480.0
37.5°	5911.9	5907.2	5911.9	5925.6	5911.9	5925.6	5911.9	5884.2	5833.4	5777.9	5722.4
40°	5496.2	5500.7	5473.2	5491.6	5440.6	5431.5	5380.8	5311.4	5209.9	5099.0	4942.0
42.5°	5052.8	5039.0	5020.5	5029.6	4988.2	4955.7	4872.6	4785.0	4655.5	4470.9	4281.4
45°	4507.8	4503.2	4493.9	4489.4	4461.6	4429.3	4359.9	4258.4	4115.2	3925.9	3699.5
47.5°	3976.6	3962.8	3962.8	3967.3	3935.0	3930.4	3874.9	3787.3	3662.6	3477.8	3242.3
50°	3468.5	3463.9	3473.2	3491.7	3468.5	3459.4	3422.5	3362.4	3251.6	3094.5	2872.7
52.5°	3011.3	3006.7	3016.0	3039.0	3029.7	3039.0	3002.2	2956.0	2882.0	2729.5	2535.6
55°	2563.4	2563.4	2563.4	2591.0	2591.0	2591.0	2572.5	2544.9	2475.6	2364.7	2184.7
57.5°	2096.9	2101.4	2129.2	2133.8	2129.2	2138.5	2133.8	2106.0	2060.0	1981.5	1842.9
60°	1704.3	1704.3	1718.2	1732.1	1727.3	1732.1	1732.1	1718.2	1672.0	1607.3	1496.5
62.5°	1348.6	1362.5	1353.2	1362.5	1380.9	1362.5	1353.2	1344.0	1311.7	1270.1	1177.7
65°	1020.7	1030.0	1030.0	1034.6	1025.2	1030.0	1011.6	997.7	979.2	933.0	873.0
67.5°	776.0	776.0	776.0	776.0	771.3	766.7	762.1	748.3	715.9	697.5	632.7
70°	595.8	568.0	568.0	568.0	568.0	572.8	558.9	540.5	531.2	498.8	452.6
72.5°	397.1	406.4	397.1	397.1	388.0	392.6	374.1	364.8	355.7	337.2	309.5
75°	286.3	263.3	272.4	277.2	263.3	272.4	254.0	235.5	235.5	221.7	207.8
77.5°	184.8	180.2	184.8	189.3	184.8	180.2	170.9	161.6	161.6	157.0	143.1
80°	134.0	129.3	129.3	129.3	124.7	129.3	120.1	120.1	110.8	106.3	97.0
82.5°	87.8	87.8	83.1	87.8	83.1	87.8	74.0	74.0	74.0	69.2	60.1
85°	60.1	50.8	50.8	55.5	46.2	55.5	50.8	46.2	41.6	41.6	36.9
87.5°	27.8	32.3	27.8	32.3	27.8	27.8	32.3	27.8	27.8	18.4	18.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9
2.5°	9412.7	9417.3	9417.3	9435.9	9445.0	9449.6	9449.6	9486.7	9472.8	9482.1	9491.2
5°	9278.9	9306.5	9315.8	9315.8	9366.5	9385.0	9403.4	9445.0	9449.6	9477.4	9509.7
7.5°	9149.4	9181.7	9200.4	9241.8	9274.1	9306.5	9362.0	9389.7	9417.3	9454.4	9495.8
10°	9024.7	9061.8	9098.7	9131.0	9181.7	9223.4	9260.3	9324.9	9357.4	9408.2	9463.5
12.5°	8904.8	8955.5	8987.8	9043.2	9098.7	9135.5	9191.1	9251.1	9301.9	9352.6	9417.3
15°	8798.5	8858.6	8895.4	8955.5	9015.6	9066.3	9126.4	9200.4	9237.3	9297.3	9357.4
17.5°	8682.9	8747.7	8793.9	8849.2	8923.2	8978.5	9029.5	9103.2	9149.4	9214.1	9283.4
20°	8562.9	8627.6	8682.9	8738.4	8812.4	8867.7	8927.8	9001.7	9052.5	9117.1	9172.6
22.5°	8419.8	8479.9	8539.8	8604.4	8678.3	8724.5	8793.9	8858.6	8913.9	8974.0	9029.5
25°	8235.0	8309.0	8355.2	8415.0	8475.1	8525.9	8599.8	8664.5	8710.7	8766.2	8816.9
27.5°	8017.9	8073.4	8110.3	8161.1	8221.1	8267.3	8322.7	8387.5	8433.7	8484.4	8521.3
30°	7648.3	7699.3	7731.6	7768.5	7828.6	7870.2	7916.4	7976.3	8008.6	8045.7	8078.0
32.5°	7163.4	7205.0	7223.5	7251.2	7292.8	7334.3	7371.4	7422.1	7436.0	7459.0	7459.0
35°	6461.5	6470.6	6466.1	6475.4	6493.8	6516.8	6549.2	6581.5	6599.9	6599.9	6586.2
37.5°	5639.3	5584.0	5523.9	5477.7	5463.8	5454.5	5473.2	5486.8	5505.5	5514.6	5491.6
40°	4785.0	4660.3	4526.2	4406.1	4323.0	4286.1	4272.3	4281.4	4281.4	4313.7	4313.7
42.5°	4050.6	3856.5	3658.0	3477.8	3357.7	3265.5	3223.8	3223.8	3228.4	3251.6	3265.5
45°	3440.9	3196.1	2965.1	2766.6	2600.3	2480.1	2424.8	2410.9	2406.4	2415.5	2447.8
47.5°	2974.4	2720.4	2480.1	2235.5	2060.0	1939.8	1889.1	1870.5	1852.0	1870.5	1875.2
50°	2609.6	2346.3	2092.3	1847.5	1662.7	1556.4	1491.8	1464.0	1459.4	1459.4	1468.8
52.5°	2276.9	2032.2	1778.3	1528.8	1334.7	1233.2	1173.1	1159.3	1140.8	1159.3	1159.3
55°	1962.8	1718.2	1468.8	1233.2	1071.4	965.4	909.8	891.4	882.1	896.0	896.0
57.5°	1621.2	1413.2	1182.5	969.9	808.3	734.4	692.7	669.7	665.0	674.3	665.0
60°	1330.2	1154.7	956.0	762.1	637.4	558.9	526.6	517.3	508.0	517.3	517.3
62.5°	1053.0	905.3	743.5	595.8	489.5	434.2	397.1	397.1	392.6	392.6	397.1
65°	780.6	665.0	549.6	424.9	341.8	300.2	272.4	272.4	267.9	272.4	267.9
67.5°	568.0	489.5	397.1	309.5	244.9	221.7	203.2	189.3	198.7	189.3	184.8
70°	415.8	350.9	286.3	235.5	189.3	166.3	152.5	147.7	138.6	138.6	138.6
72.5°	277.2	235.5	193.9	152.5	124.7	101.5	97.0	87.8	78.5	83.1	92.4
75°	184.8	157.0	138.6	110.8	83.1	83.1	55.5	55.5	46.2	55.5	41.6
77.5°	129.3	106.3	83.1	69.2	55.5	50.8	36.9	36.9	32.3	32.3	32.3
80°	92.4	78.5	60.1	50.8	36.9	36.9	32.3	27.8	23.0	23.0	27.8
82.5°	55.5	41.6	41.6	36.9	23.0	18.4	13.9	18.4	9.3	9.3	9.3
85°	32.3	27.8	23.0	13.9	9.3	9.3	4.6	0.0	4.6	4.6	0.0
87.5°	18.4	9.3	9.3	4.6	0.0	4.6	4.6	0.0	0.0	0.0	9.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9
2.5°	9514.4	9509.7	9519.0	9519.0	9546.7	9542.0	9555.9	9555.9	9546.7	9551.3	9569.7
5°	9546.7	9560.6	9588.2	9611.4	9652.8	9671.5	9694.5	9717.7	9722.2	9736.1	9750.0
7.5°	9546.7	9592.9	9625.3	9666.7	9722.2	9754.5	9805.3	9846.9	9865.4	9888.4	9916.1
10°	9528.1	9574.3	9634.4	9680.6	9750.0	9800.7	9851.5	9916.1	9943.9	9980.8	10017.8
12.5°	9491.2	9542.0	9606.6	9666.7	9745.2	9791.4	9856.0	9916.1	9957.8	10008.5	10050.1
15°	9435.9	9495.8	9555.9	9615.9	9699.0	9754.5	9814.6	9883.8	9925.4	9980.8	10017.8
17.5°	9348.1	9412.7	9468.2	9523.6	9602.1	9666.7	9722.2	9786.9	9828.5	9874.7	9925.4
20°	9241.8	9301.9	9362.0	9408.2	9486.7	9542.0	9602.1	9662.1	9694.5	9703.8	9782.3
22.5°	9108.0	9149.4	9195.6	9269.6	9315.8	9366.5	9422.0	9477.4	9509.7	9560.6	9588.2
25°	8886.1	8927.8	8978.5	9010.8	9066.3	9108.0	9163.3	9223.4	9241.8	9278.9	9306.5
27.5°	8576.8	8599.8	8623.0	8650.6	8682.9	8706.1	8738.4	8766.2	8784.6	8803.1	8821.5
30°	8087.1	8087.1	8087.1	8068.7	8082.5	8096.4	8101.0	8096.4	8096.4	8091.9	8091.9
32.5°	7440.6	7403.7	7362.0	7325.2	7311.3	7292.8	7283.5	7269.7	7246.7	7232.8	7237.3
35°	6567.6	6484.5	6433.8	6387.6	6350.7	6322.9	6309.1	6295.2	6290.6	6272.2	6253.5
37.5°	5477.7	5417.6	5380.8	5353.0	5320.7	5292.9	5297.5	5302.2	5315.9	5306.8	5311.4
40°	4323.0	4309.1	4323.0	4290.7	4281.4	4290.7	4313.7	4346.2	4364.6	4383.1	4415.4
42.5°	3288.5	3311.5	3344.0	3344.0	3357.7	3376.3	3403.8	3454.8	3482.4	3514.7	3551.8
45°	2475.6	2503.3	2544.9	2558.6	2568.0	2591.0	2623.5	2664.9	2683.3	2711.1	2743.4
47.5°	1907.5	1926.0	1949.0	1972.2	1995.2	2004.5	2036.8	2036.8	2060.0	2078.4	2087.6
50°	1487.2	1505.6	1524.1	1538.0	1547.3	1561.2	1570.3	1584.2	1588.7	1598.0	1602.6
52.5°	1163.8	1187.0	1187.0	1196.1	1210.0	1223.9	1219.3	1223.9	1228.5	1228.5	1242.3
55°	909.8	909.8	923.7	923.7	933.0	928.3	933.0	933.0	933.0	933.0	937.6
57.5°	678.9	683.6	697.5	688.2	683.6	692.7	683.6	692.7	688.2	697.5	683.6
60°	521.8	521.8	526.6	526.6	531.2	531.2	531.2	526.6	526.6	521.8	521.8
62.5°	392.6	397.1	401.9	397.1	397.1	397.1	392.6	392.6	388.0	383.3	383.3
65°	263.3	258.7	267.9	258.7	263.3	263.3	258.7	263.3	249.4	254.0	249.4
67.5°	189.3	184.8	180.2	184.8	180.2	175.5	175.5	180.2	184.8	170.9	170.9
70°	124.7	129.3	124.7	129.3	134.0	134.0	129.3	124.7	129.3	120.1	124.7
72.5°	78.5	78.5	78.5	78.5	78.5	83.1	83.1	83.1	74.0	74.0	69.2
75°	36.9	50.8	41.6	36.9	50.8	50.8	46.2	46.2	41.6	41.6	41.6
77.5°	36.9	27.8	27.8	27.8	27.8	27.8	27.8	27.8	23.0	27.8	23.0
80°	18.4	18.4	18.4	13.9	18.4	18.4	23.0	18.4	18.4	13.9	23.0
82.5°	9.3	9.3	9.3	0.0	4.6	9.3	9.3	4.6	9.3	9.3	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: P248649

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBSWOH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9
2.5°	9565.2	9560.6	9565.2	9569.7	9565.2	9560.6	9565.2	9569.7	9551.3	9546.7	9555.9
5°	9768.4	9768.4	9777.5	9782.3	9777.5	9768.4	9768.4	9750.0	9736.1	9722.2	9717.7
7.5°	9943.9	9953.2	9962.3	9966.9	9962.3	9953.2	9943.9	9916.1	9888.4	9865.4	9846.9
10°	10050.1	10064.0	10082.5	10091.6	10082.5	10064.0	10050.1	10017.8	9980.8	9943.9	9916.1
12.5°	10096.3	10110.2	10133.2	10128.7	10133.2	10110.2	10096.3	10050.1	10008.5	9957.8	9916.1
15°	10064.0	10082.5	10105.5	10114.8	10105.5	10082.5	10064.0	10017.8	9980.8	9925.4	9883.8
17.5°	9962.3	9990.1	10004.0	10017.8	10004.0	9990.1	9962.3	9925.4	9874.7	9828.5	9786.9
20°	9823.7	9842.4	9860.8	9865.4	9860.8	9842.4	9823.7	9782.3	9703.8	9694.5	9662.1
22.5°	9625.3	9639.1	9680.6	9666.7	9680.6	9639.1	9625.3	9588.2	9560.6	9509.7	9477.4
25°	9338.8	9352.6	9357.4	9362.0	9357.4	9352.6	9338.8	9306.5	9278.9	9241.8	9223.4
27.5°	8844.7	8844.7	8853.8	8858.6	8853.8	8844.7	8844.7	8821.5	8803.1	8784.6	8766.2
30°	8096.4	8096.4	8096.4	8119.6	8096.4	8096.4	8096.4	8091.9	8091.9	8096.4	8096.4
32.5°	7232.8	7223.5	7214.3	7223.5	7214.3	7223.5	7232.8	7237.3	7232.8	7246.7	7269.7
35°	6253.5	6249.0	6262.9	6244.4	6262.9	6249.0	6253.5	6253.5	6272.2	6290.6	6295.2
37.5°	5315.9	5306.8	5325.3	5306.8	5325.3	5306.8	5315.9	5311.4	5306.8	5315.9	5302.2
40°	4424.7	4433.8	4433.8	4470.9	4433.8	4433.8	4424.7	4415.4	4383.1	4364.6	4346.2
42.5°	3570.2	3597.9	3588.6	3616.4	3588.6	3597.9	3570.2	3551.8	3514.7	3482.4	3454.8
45°	2761.9	2780.5	2780.5	2789.6	2780.5	2780.5	2761.9	2743.4	2711.1	2683.3	2664.9
47.5°	2119.9	2119.9	2119.9	2124.6	2119.9	2119.9	2119.9	2087.6	2078.4	2060.0	2036.8
50°	1611.9	1616.5	1621.2	1625.8	1621.2	1616.5	1611.9	1602.6	1598.0	1588.7	1584.2
52.5°	1237.8	1242.3	1233.2	1242.3	1233.2	1242.3	1237.8	1242.3	1228.5	1228.5	1223.9
55°	937.6	933.0	937.6	942.2	937.6	933.0	937.6	937.6	933.0	933.0	933.0
57.5°	688.2	678.9	678.9	678.9	678.9	678.9	688.2	683.6	697.5	688.2	692.7
60°	512.7	517.3	517.3	521.8	517.3	517.3	512.7	521.8	521.8	526.6	526.6
62.5°	378.7	392.6	383.3	392.6	383.3	392.6	378.7	383.3	383.3	388.0	392.6
65°	244.9	244.9	244.9	249.4	244.9	244.9	244.9	249.4	254.0	249.4	263.3
67.5°	166.3	170.9	180.2	175.5	180.2	170.9	166.3	170.9	170.9	184.8	180.2
70°	134.0	120.1	120.1	134.0	120.1	120.1	134.0	124.7	120.1	129.3	124.7
72.5°	78.5	69.2	78.5	78.5	78.5	69.2	78.5	69.2	74.0	74.0	83.1
75°	41.6	36.9	32.3	46.2	32.3	36.9	41.6	41.6	41.6	41.6	46.2
77.5°	27.8	23.0	32.3	32.3	32.3	23.0	27.8	23.0	27.8	23.0	27.8
80°	13.9	18.4	13.9	23.0	13.9	18.4	13.9	23.0	13.9	18.4	18.4
82.5°	4.6	9.3	9.3	9.3	9.3	9.3	4.6	4.6	9.3	9.3	4.6
85°	0.0	9.3	4.6	4.6	4.6	9.3	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: P248649

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBSWOH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9
2.5°	9555.9	9542.0	9546.7	9519.0	9519.0	9509.7	9514.4	9491.2	9482.1	9472.8	9486.7
5°	9694.5	9671.5	9652.8	9611.4	9588.2	9560.6	9546.7	9509.7	9477.4	9449.6	9445.0
7.5°	9805.3	9754.5	9722.2	9666.7	9625.3	9592.9	9546.7	9495.8	9454.4	9417.3	9389.7
10°	9851.5	9800.7	9750.0	9680.6	9634.4	9574.3	9528.1	9463.5	9408.2	9357.4	9324.9
12.5°	9856.0	9791.4	9745.2	9666.7	9606.6	9542.0	9491.2	9417.3	9352.6	9301.9	9251.1
15°	9814.6	9754.5	9699.0	9615.9	9555.9	9495.8	9435.9	9357.4	9297.3	9237.3	9200.4
17.5°	9722.2	9666.7	9602.1	9523.6	9468.2	9412.7	9348.1	9283.4	9214.1	9149.4	9103.2
20°	9602.1	9542.0	9486.7	9408.2	9362.0	9301.9	9241.8	9172.6	9117.1	9052.5	9001.7
22.5°	9422.0	9366.5	9315.8	9269.6	9195.6	9149.4	9108.0	9029.5	8974.0	8913.9	8858.6
25°	9163.3	9108.0	9066.3	9010.8	8978.5	8927.8	8886.1	8816.9	8766.2	8710.7	8664.5
27.5°	8738.4	8706.1	8682.9	8650.6	8623.0	8599.8	8576.8	8521.3	8484.4	8433.7	8387.5
30°	8101.0	8096.4	8082.5	8068.7	8087.1	8087.1	8087.1	8078.0	8045.7	8008.6	7976.3
32.5°	7283.5	7292.8	7311.3	7325.2	7362.0	7403.7	7440.6	7459.0	7459.0	7436.0	7422.1
35°	6309.1	6322.9	6350.7	6387.6	6433.8	6484.5	6567.6	6586.2	6599.9	6599.9	6581.5
37.5°	5297.5	5292.9	5320.7	5353.0	5380.8	5417.6	5477.7	5491.6	5514.6	5505.5	5486.8
40°	4313.7	4290.7	4281.4	4290.7	4323.0	4309.1	4323.0	4313.7	4313.7	4281.4	4281.4
42.5°	3403.8	3376.3	3357.7	3344.0	3344.0	3311.5	3288.5	3265.5	3251.6	3228.4	3223.8
45°	2623.5	2591.0	2568.0	2558.6	2544.9	2503.3	2475.6	2447.8	2415.5	2406.4	2410.9
47.5°	2036.8	2004.5	1995.2	1972.2	1949.0	1926.0	1907.5	1875.2	1870.5	1852.0	1870.5
50°	1570.3	1561.2	1547.3	1538.0	1524.1	1505.6	1487.2	1468.8	1459.4	1459.4	1464.0
52.5°	1219.3	1223.9	1210.0	1196.1	1187.0	1187.0	1163.8	1159.3	1159.3	1140.8	1159.3
55°	933.0	928.3	933.0	923.7	923.7	909.8	909.8	896.0	896.0	882.1	891.4
57.5°	683.6	692.7	683.6	688.2	697.5	683.6	678.9	665.0	674.3	665.0	669.7
60°	531.2	531.2	531.2	526.6	526.6	521.8	521.8	517.3	517.3	508.0	517.3
62.5°	392.6	397.1	397.1	397.1	401.9	397.1	392.6	397.1	392.6	392.6	397.1
65°	258.7	263.3	263.3	258.7	267.9	258.7	263.3	267.9	272.4	267.9	272.4
67.5°	175.5	175.5	180.2	184.8	180.2	184.8	189.3	184.8	189.3	198.7	189.3
70°	129.3	134.0	134.0	129.3	124.7	129.3	124.7	138.6	138.6	138.6	147.7
72.5°	83.1	83.1	78.5	78.5	78.5	78.5	78.5	92.4	83.1	78.5	87.8
75°	46.2	50.8	50.8	36.9	41.6	50.8	36.9	41.6	55.5	46.2	55.5
77.5°	27.8	27.8	27.8	27.8	27.8	27.8	36.9	32.3	32.3	32.3	36.9
80°	23.0	18.4	18.4	13.9	18.4	18.4	18.4	27.8	23.0	23.0	27.8
82.5°	9.3	9.3	4.6	0.0	9.3	9.3	9.3	9.3	9.3	9.3	18.4
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	9.3	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: P248649

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBSWOH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9
2.5°	9449.6	9449.6	9445.0	9435.9	9417.3	9417.3	9412.7	9398.8	9389.7	9385.0	9385.0
5°	9403.4	9385.0	9366.5	9315.8	9315.8	9306.5	9278.9	9260.3	9251.1	9227.9	9218.8
7.5°	9362.0	9306.5	9274.1	9241.8	9200.4	9181.7	9149.4	9135.5	9103.2	9080.2	9066.3
10°	9260.3	9223.4	9181.7	9131.0	9098.7	9061.8	9024.7	8997.1	8955.5	8932.3	8913.9
12.5°	9191.1	9135.5	9098.7	9043.2	8987.8	8955.5	8904.8	8872.4	8830.8	8784.6	8756.9
15°	9126.4	9066.3	9015.6	8955.5	8895.4	8858.6	8798.5	8761.6	8701.5	8655.3	8623.0
17.5°	9029.5	8978.5	8923.2	8849.2	8793.9	8747.7	8682.9	8636.9	8581.4	8521.3	8489.0
20°	8927.8	8867.7	8812.4	8738.4	8682.9	8627.6	8562.9	8512.2	8447.4	8392.0	8355.2
22.5°	8793.9	8724.5	8678.3	8604.4	8539.8	8479.9	8419.8	8359.7	8299.7	8253.5	8211.8
25°	8599.8	8525.9	8475.1	8415.0	8355.2	8309.0	8235.0	8198.1	8138.1	8096.4	8054.8
27.5°	8322.7	8267.3	8221.1	8161.1	8110.3	8073.4	8017.9	7981.0	7930.1	7893.2	7860.9
30°	7916.4	7870.2	7828.6	7768.5	7731.6	7699.3	7648.3	7616.0	7579.1	7537.5	7528.4
32.5°	7371.4	7334.3	7292.8	7251.2	7223.5	7205.0	7163.4	7144.9	7108.1	7084.9	7061.9
35°	6549.2	6516.8	6493.8	6475.4	6466.1	6470.6	6461.5	6480.0	6489.1	6484.5	6489.1
37.5°	5473.2	5454.5	5463.8	5477.7	5523.9	5584.0	5639.3	5722.4	5777.9	5833.4	5884.2
40°	4272.3	4286.1	4323.0	4406.1	4526.2	4660.3	4785.0	4942.0	5099.0	5209.9	5311.4
42.5°	3223.8	3265.5	3357.7	3477.8	3658.0	3856.5	4050.6	4281.4	4470.9	4655.5	4785.0
45°	2424.8	2480.1	2600.3	2766.6	2965.1	3196.1	3440.9	3699.5	3925.9	4115.2	4258.4
47.5°	1889.1	1939.8	2060.0	2235.5	2480.1	2720.4	2974.4	3242.3	3477.8	3662.6	3787.3
50°	1491.8	1556.4	1662.7	1847.5	2092.3	2346.3	2609.6	2872.7	3094.5	3251.6	3362.4
52.5°	1173.1	1233.2	1334.7	1528.8	1778.3	2032.2	2276.9	2535.6	2729.5	2882.0	2956.0
55°	909.8	965.4	1071.4	1233.2	1468.8	1718.2	1962.8	2184.7	2364.7	2475.6	2544.9
57.5°	692.7	734.4	808.3	969.9	1182.5	1413.2	1621.2	1842.9	1981.5	2060.0	2106.0
60°	526.6	558.9	637.4	762.1	956.0	1154.7	1330.2	1496.5	1607.3	1672.0	1718.2
62.5°	397.1	434.2	489.5	595.8	743.5	905.3	1053.0	1177.7	1270.1	1311.7	1344.0
65°	272.4	300.2	341.8	424.9	549.6	665.0	780.6	873.0	933.0	979.2	997.7
67.5°	203.2	221.7	244.9	309.5	397.1	489.5	568.0	632.7	697.5	715.9	748.3
70°	152.5	166.3	189.3	235.5	286.3	350.9	415.8	452.6	498.8	531.2	540.5
72.5°	97.0	101.5	124.7	152.5	193.9	235.5	277.2	309.5	337.2	355.7	364.8
75°	55.5	83.1	83.1	110.8	138.6	157.0	184.8	207.8	221.7	235.5	235.5
77.5°	36.9	50.8	55.5	69.2	83.1	106.3	129.3	143.1	157.0	161.6	161.6
80°	32.3	36.9	36.9	50.8	60.1	78.5	92.4	97.0	106.3	110.8	120.1
82.5°	13.9	18.4	23.0	36.9	41.6	41.6	55.5	60.1	69.2	74.0	74.0
85°	4.6	9.3	9.3	13.9	23.0	27.8	32.3	36.9	41.6	41.6	46.2
87.5°	4.6	4.6	0.0	4.6	9.3	9.3	18.4	18.4	18.4	27.8	27.8
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: P248649

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBSWOH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9
2.5°	9375.8	9380.4	9362.0	9357.4	9348.1	9352.6	9362.0
5°	9204.9	9209.5	9191.1	9172.6	9172.6	9167.9	9172.6
7.5°	9043.2	9047.9	9020.2	9010.8	8992.4	8997.1	8997.1
10°	8881.6	8881.6	8840.1	8835.4	8821.5	8816.9	8816.9
12.5°	8724.5	8710.7	8678.3	8659.9	8669.2	8641.5	8641.5
15°	8586.0	8562.9	8521.3	8507.4	8484.4	8475.1	8475.1
17.5°	8442.8	8424.4	8387.5	8359.7	8332.0	8327.4	8332.0
20°	8304.2	8285.8	8239.6	8221.1	8198.1	8198.1	8188.8
22.5°	8165.6	8147.2	8105.7	8091.9	8059.5	8059.5	8064.1
25°	8022.5	8008.6	7962.4	7953.3	7948.7	7930.1	7939.4
27.5°	7828.6	7819.3	7782.4	7768.5	7750.1	7745.5	7754.6
30°	7472.9	7459.0	7431.4	7417.6	7385.2	7389.8	7398.9
32.5°	7029.6	7011.1	6974.0	6960.2	6932.6	6923.3	6927.8
35°	6475.4	6461.5	6429.2	6429.2	6401.4	6392.1	6401.4
37.5°	5911.9	5925.6	5911.9	5925.6	5911.9	5907.2	5911.9
40°	5380.8	5431.5	5440.6	5491.6	5473.2	5500.7	5496.2
42.5°	4872.6	4955.7	4988.2	5029.6	5020.5	5039.0	5052.8
45°	4359.9	4429.3	4461.6	4489.4	4493.9	4503.2	4507.8
47.5°	3874.9	3930.4	3935.0	3967.3	3962.8	3962.8	3976.6
50°	3422.5	3459.4	3468.5	3491.7	3473.2	3463.9	3468.5
52.5°	3002.2	3039.0	3029.7	3039.0	3016.0	3006.7	3011.3
55°	2572.5	2591.0	2591.0	2591.0	2563.4	2563.4	2563.4
57.5°	2133.8	2138.5	2129.2	2133.8	2129.2	2101.4	2096.9
60°	1732.1	1732.1	1727.3	1732.1	1718.2	1704.3	1704.3
62.5°	1353.2	1362.5	1380.9	1362.5	1353.2	1362.5	1348.6
65°	1011.6	1030.0	1025.2	1034.6	1030.0	1030.0	1020.7
67.5°	762.1	766.7	771.3	776.0	776.0	776.0	776.0
70°	558.9	572.8	568.0	568.0	568.0	568.0	595.8
72.5°	374.1	392.6	388.0	397.1	397.1	406.4	397.1
75°	254.0	272.4	263.3	277.2	272.4	263.3	286.3
77.5°	170.9	180.2	184.8	189.3	184.8	180.2	184.8
80°	120.1	129.3	124.7	129.3	129.3	129.3	134.0
82.5°	74.0	87.8	83.1	87.8	83.1	87.8	87.8
85°	50.8	55.5	46.2	55.5	50.8	50.8	60.1
87.5°	32.3	27.8	27.8	32.3	27.8	32.3	27.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)