

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: INVUE

Report Number: P180268

Luminaire Tested: **ICM-E02-LED-E1-RW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180268
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E02-LED-E1-RW
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5812 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

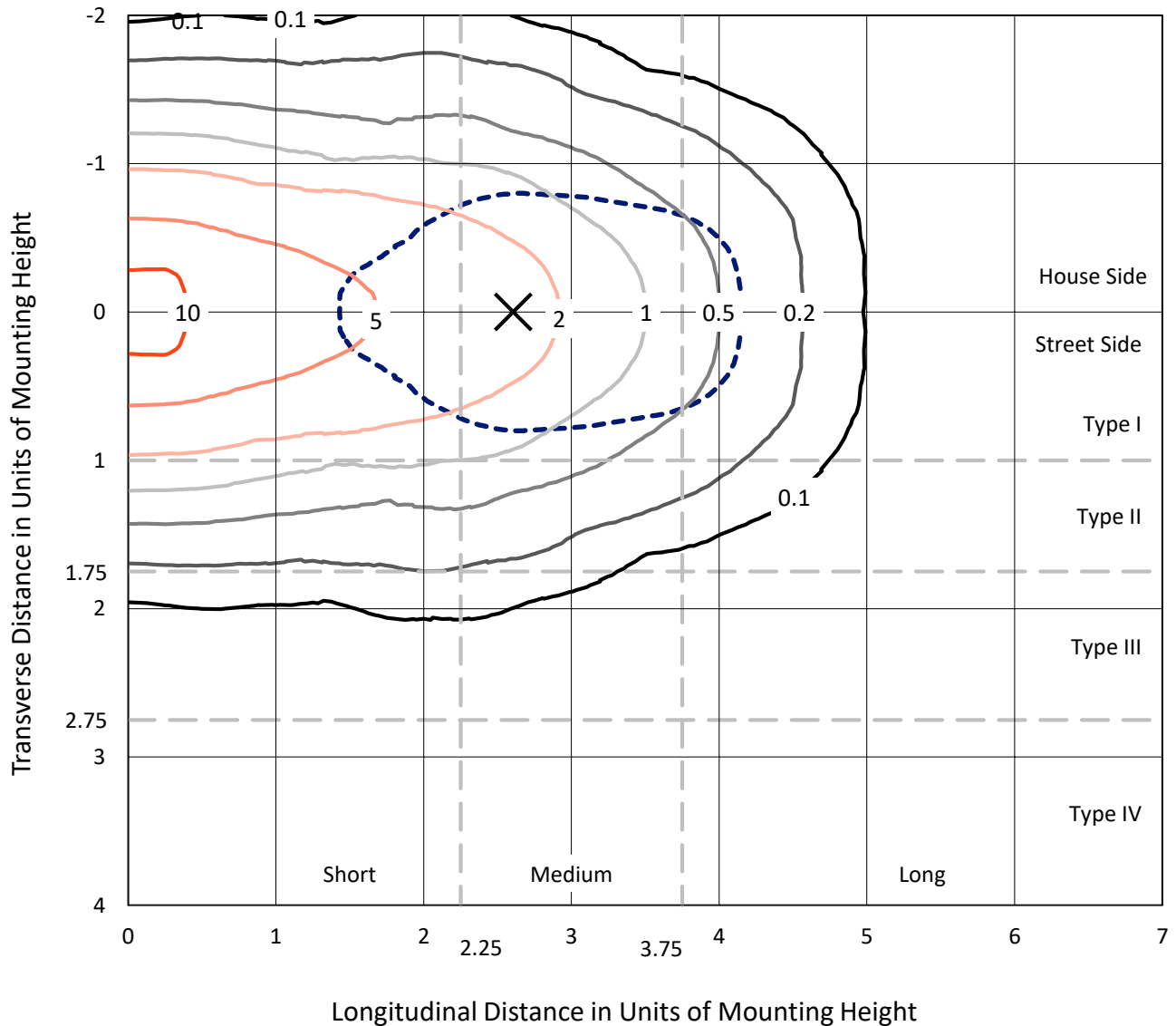
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

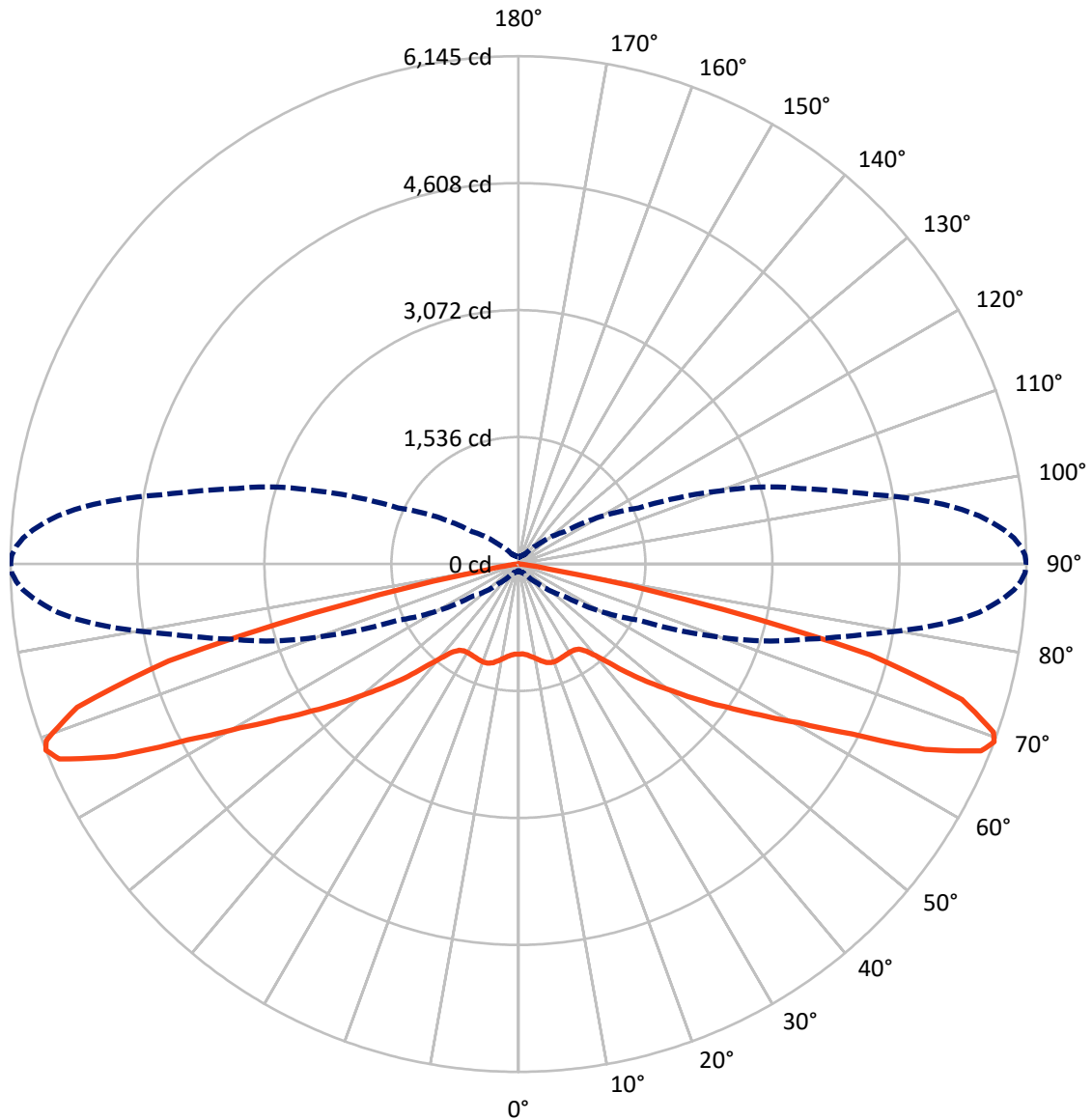
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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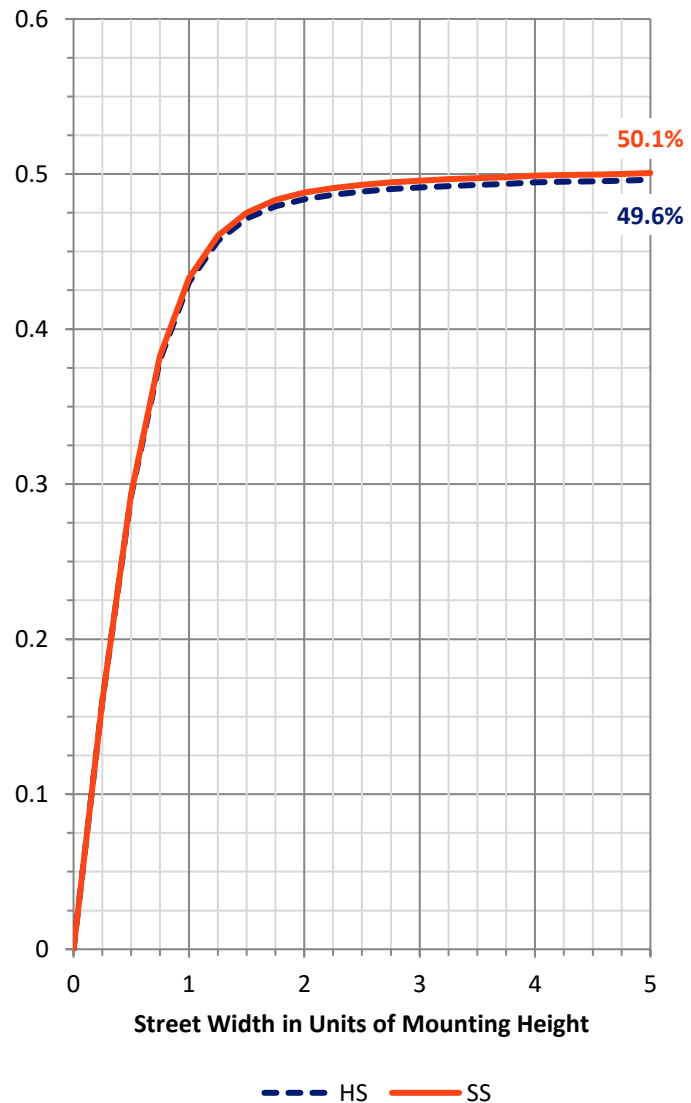
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2906.0	0.0	2906.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2906.0	0.0	2906.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5812.0	0.0	5812.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	1.8
10°-20°	337.0	5.8
20°-30°	545.9	9.4
30°-40°	680.4	11.7
40°-50°	850.2	14.6
50°-60°	1049.8	18.1
60°-70°	1304.4	22.4
70°-80°	866.0	14.9
80°-90°	71.5	1.2
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°-90°	5812.0	100.0
0°-180°	5812.0	100.0



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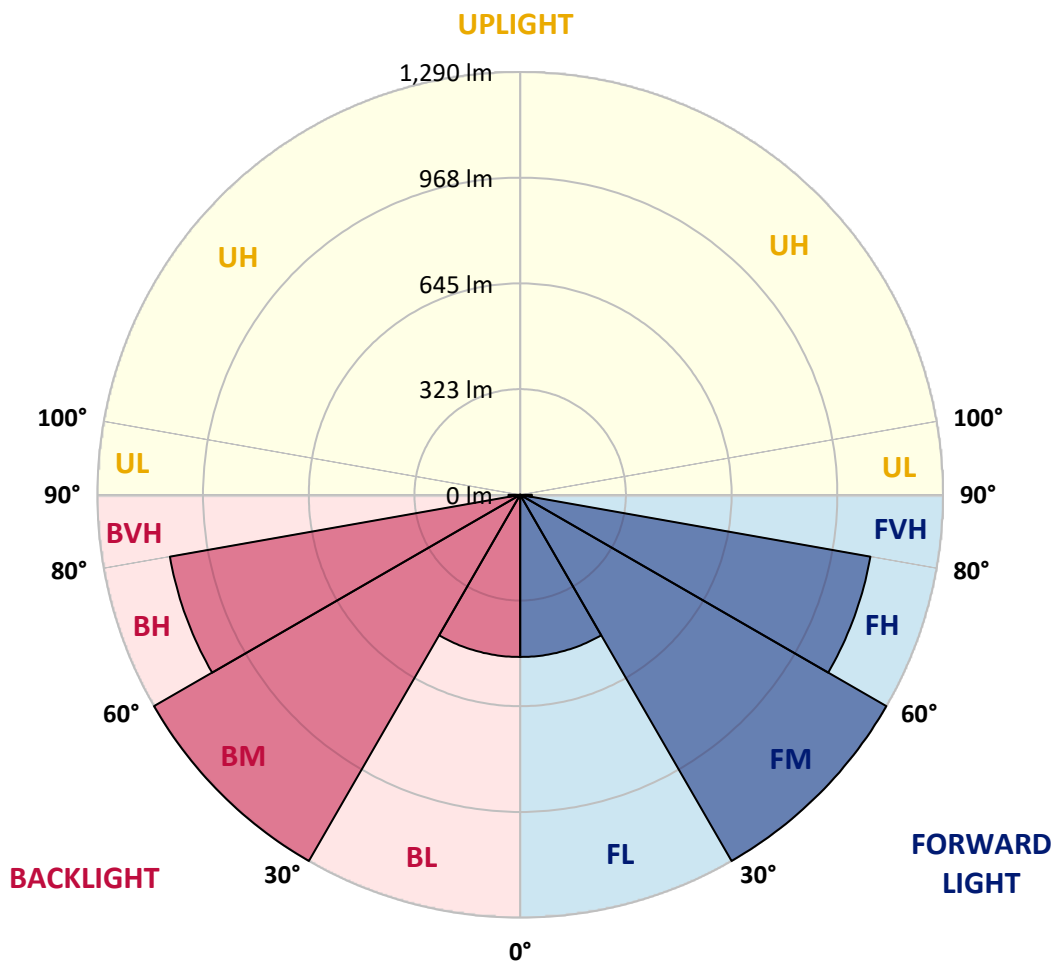
CATALOG NUMBER: ICM-E02-LED-E1-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	494.9	8.5			
FM	(30°-60°)	1290.2	22.2			
FH	(60°-80°)	1085.2	18.7			G1/1800
FVH	(80°-90°)	35.7	0.6			G1/100
BL	(0°-30°)	494.9	8.5	B1/500		
BM	(30°-60°)	1290.2	22.2	B2/2500		
BH	(60°-80°)	1085.2	18.7	B3/2500		G3/2500
BVH	(80°-90°)	35.7	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0
2.5°	1094.0	1094.9	1094.2	1095.4	1095.3	1095.3	1094.6	1093.4	1092.6	1092.1	1092.2
5°	1104.6	1103.3	1105.1	1107.0	1106.4	1106.7	1106.4	1106.4	1105.8	1105.7	1105.7
7.5°	1115.6	1115.4	1116.7	1121.6	1122.2	1124.0	1126.1	1127.7	1128.1	1128.4	1128.0
10°	1125.2	1125.6	1128.8	1135.8	1139.5	1145.5	1151.3	1155.9	1157.7	1158.7	1158.6
12.5°	1133.0	1133.4	1138.0	1149.2	1158.1	1169.3	1182.1	1189.1	1192.2	1192.8	1193.3
15°	1133.6	1134.5	1142.7	1160.9	1178.9	1197.2	1212.5	1222.0	1224.6	1226.2	1226.2
17.5°	1125.6	1126.1	1139.9	1166.8	1196.8	1225.5	1241.2	1245.6	1246.5	1247.2	1246.8
20°	1104.6	1106.1	1125.2	1165.2	1211.2	1248.4	1264.8	1258.9	1256.0	1255.6	1255.3
22.5°	1070.4	1070.1	1095.3	1149.2	1214.0	1266.3	1280.9	1265.5	1256.3	1254.4	1253.1
25°	1015.2	1019.0	1048.4	1112.9	1198.1	1270.3	1292.5	1268.8	1255.6	1252.8	1249.1
27.5°	955.4	957.6	988.8	1058.1	1161.3	1256.5	1298.1	1275.6	1260.9	1256.8	1252.7
30°	885.6	888.4	921.9	994.1	1102.0	1220.5	1296.4	1291.2	1274.0	1269.0	1263.8
32.5°	817.3	820.5	850.5	929.6	1039.6	1171.2	1287.1	1313.1	1295.4	1290.1	1284.6
35°	746.7	751.4	787.9	867.9	979.5	1116.3	1272.8	1341.4	1331.6	1326.8	1322.1
37.5°	688.1	689.0	724.4	808.4	923.7	1063.8	1254.0	1377.0	1384.2	1384.2	1384.8
40°	622.7	628.6	663.9	752.6	873.1	1019.5	1235.9	1425.5	1462.5	1469.2	1474.5
42.5°	564.0	564.7	600.6	692.1	818.2	983.9	1226.1	1483.7	1563.0	1577.4	1591.9
45°	502.3	504.7	537.3	625.8	755.1	941.8	1225.8	1551.1	1677.6	1701.8	1724.3
47.5°	444.1	445.0	479.4	561.5	682.4	882.8	1223.6	1623.3	1795.5	1831.4	1860.7
50°	388.3	387.4	421.0	500.1	610.8	805.6	1204.7	1705.1	1922.6	1963.4	1999.5
52.5°	324.4	328.7	363.7	439.4	545.7	727.1	1149.4	1794.7	2054.9	2102.1	2147.4
55°	261.8	263.6	301.1	371.7	479.6	654.0	1053.3	1877.2	2183.9	2237.4	2287.8
57.5°	192.8	198.4	231.3	301.0	412.7	592.2	931.2	1920.0	2293.2	2354.9	2414.8
60°	136.1	140.5	169.6	228.3	339.2	527.4	826.1	1896.2	2381.1	2459.9	2531.9
62.5°	106.0	109.4	132.7	170.9	264.6	462.6	750.7	1818.9	2478.7	2581.6	2679.7
65°	93.0	96.2	117.2	136.7	197.5	396.6	709.5	1737.4	2609.7	2761.0	2898.0
67.5°	84.1	87.8	106.0	119.6	160.9	346.0	698.6	1686.0	2673.9	2871.1	3055.6
69°	80.0	83.7	100.1	111.6	149.4	328.1	680.0	1605.0	2587.2	2798.0	2999.5
70°	77.6	80.6	95.8	107.5	145.8	315.7	648.9	1503.8	2468.4	2681.1	2891.8
72.5°	72.0	73.5	86.8	98.3	135.3	255.3	499.2	1116.9	1953.0	2160.6	2365.0
75°	63.6	65.5	77.9	88.9	105.5	158.5	315.9	690.8	1315.1	1469.7	1659.3
77.5°	54.9	56.4	67.3	85.0	81.9	99.0	188.8	384.5	746.5	836.3	959.6
80°	44.0	46.0	55.4	84.3	67.5	76.9	135.8	268.8	366.5	393.3	422.9
82.5°	32.2	33.8	43.3	68.3	51.8	58.0	103.6	227.9	261.9	274.0	279.9
85°	16.5	16.7	27.5	41.6	32.8	30.1	58.2	156.0	177.7	180.7	185.3
87.5°	2.8	2.8	6.2	7.2	8.0	4.9	7.4	26.7	30.9	30.6	33.2
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0
2.5°	1092.6	1092.3	1092.8	1092.8	1093.1	1092.0	1091.7	1091.4	1091.5	1092.1	1091.5
5°	1105.9	1105.8	1106.1	1106.6	1106.4	1105.7	1105.5	1105.7	1104.8	1104.6	1105.1
7.5°	1128.7	1128.4	1127.8	1128.8	1129.5	1129.5	1130.2	1129.7	1129.3	1129.0	1129.6
10°	1159.6	1159.5	1159.6	1160.8	1161.5	1161.6	1162.3	1161.5	1161.3	1161.9	1161.9
12.5°	1194.5	1193.9	1195.4	1196.0	1196.8	1198.8	1197.9	1199.1	1198.1	1199.6	1199.7
15°	1227.4	1227.7	1229.2	1229.8	1230.0	1231.4	1231.6	1232.6	1231.4	1231.6	1234.1
17.5°	1247.8	1247.4	1248.4	1248.9	1249.7	1250.5	1251.9	1252.7	1252.1	1252.1	1253.4
20°	1254.6	1253.7	1254.0	1254.3	1254.5	1255.3	1256.4	1256.4	1256.4	1256.8	1258.1
22.5°	1251.3	1249.7	1248.1	1248.2	1248.4	1248.1	1248.8	1249.3	1249.9	1250.6	1252.1
25°	1246.5	1243.0	1240.0	1239.7	1238.9	1238.9	1239.4	1239.4	1240.0	1240.9	1242.2
27.5°	1247.0	1242.2	1237.5	1235.8	1234.1	1233.1	1232.7	1231.9	1232.6	1233.5	1234.8
30°	1257.6	1250.2	1243.4	1241.3	1238.9	1236.8	1235.0	1232.9	1231.6	1232.6	1233.1
32.5°	1276.3	1269.0	1262.3	1258.9	1255.4	1251.8	1248.4	1246.1	1243.4	1242.4	1242.2
35°	1316.0	1310.2	1304.2	1300.4	1294.6	1291.7	1287.5	1281.5	1277.2	1276.8	1274.4
37.5°	1383.0	1380.2	1375.8	1371.8	1370.0	1362.1	1357.2	1354.1	1349.2	1352.2	1347.0
40°	1479.2	1483.7	1487.7	1485.4	1486.1	1484.1	1481.1	1484.1	1480.6	1479.7	1480.7
42.5°	1602.3	1618.7	1630.1	1633.7	1642.8	1646.4	1653.1	1663.6	1661.4	1673.2	1675.4
45°	1745.1	1768.6	1791.3	1808.2	1826.8	1847.6	1868.7	1885.2	1898.2	1897.7	1912.0
47.5°	1890.8	1925.4	1955.6	1981.1	2014.4	2045.1	2079.1	2113.2	2138.1	2147.3	2150.3
50°	2038.4	2078.2	2119.6	2157.1	2202.1	2251.3	2304.6	2357.8	2384.5	2406.2	2420.9
52.5°	2193.0	2238.7	2282.8	2335.6	2391.1	2456.1	2522.6	2598.5	2638.7	2679.7	2701.4
55°	2340.1	2391.2	2436.7	2507.4	2575.4	2652.9	2739.7	2835.6	2905.4	2953.5	2995.9
57.5°	2473.8	2528.0	2583.9	2663.7	2750.3	2841.0	2951.2	3067.6	3143.6	3227.4	3302.7
60°	2604.2	2672.5	2736.8	2841.0	2944.1	3056.8	3194.0	3341.4	3459.0	3572.8	3659.6
62.5°	2777.3	2864.9	2944.9	3076.1	3210.7	3350.0	3513.1	3687.5	3858.1	4012.5	4129.3
65°	3032.9	3161.8	3281.2	3447.6	3617.5	3800.9	3995.7	4218.3	4422.9	4627.4	4794.7
67.5°	3227.0	3390.2	3543.6	3744.6	3944.7	4157.1	4392.5	4655.5	4908.9	5139.3	5343.3
69°	3188.9	3361.9	3528.0	3733.2	3941.2	4158.3	4395.7	4675.4	4938.6	5188.9	5407.8
70°	3072.9	3253.2	3425.4	3629.0	3839.7	4057.3	4305.9	4580.5	4849.9	5116.6	5337.7
72.5°	2546.8	2727.6	2894.9	3103.3	3315.4	3543.8	3779.2	4046.9	4334.6	4619.6	4813.4
75°	1826.0	1985.9	2147.9	2324.2	2531.1	2719.5	2934.8	3190.2	3431.9	3653.0	3801.2
77.5°	1079.3	1175.0	1290.5	1373.5	1493.6	1597.3	1706.9	1848.8	1923.2	2065.7	2102.3
80°	439.7	437.1	454.3	437.2	441.1	427.2	412.3	409.7	386.4	415.5	393.9
82.5°	279.4	259.8	239.1	210.2	184.9	158.3	134.0	113.5	109.8	110.3	109.2
85°	184.0	175.6	156.9	131.9	107.5	86.2	69.0	54.5	54.0	53.0	52.7
87.5°	33.3	30.9	25.5	21.7	18.3	13.6	9.6	7.1	6.8	6.9	8.1
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):

	84°	85°	86°	87°	88°	89°	90°
0°	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0
2.5°	1091.5	1091.4	1091.2	1091.7	1091.4	1090.6	1089.6
5°	1105.8	1104.6	1105.5	1106.4	1104.8	1105.1	1104.5
7.5°	1129.6	1129.3	1129.7	1128.7	1128.0	1129.0	1130.0
10°	1163.2	1162.4	1162.2	1163.2	1162.5	1161.9	1162.1
12.5°	1200.6	1200.6	1200.4	1200.7	1200.4	1199.4	1198.8
15°	1233.8	1234.4	1234.4	1233.9	1233.5	1233.1	1233.5
17.5°	1254.3	1254.0	1254.0	1254.0	1253.7	1254.0	1254.6
20°	1259.5	1258.6	1258.6	1259.2	1258.6	1259.3	1259.5
22.5°	1252.5	1252.5	1252.5	1252.8	1253.4	1253.3	1254.0
25°	1243.4	1243.4	1243.4	1244.1	1244.0	1244.4	1244.7
27.5°	1236.3	1236.3	1236.3	1236.8	1236.8	1237.2	1237.9
30°	1234.1	1234.1	1233.8	1234.1	1234.4	1234.4	1234.7
32.5°	1242.4	1241.5	1241.3	1240.6	1240.0	1240.0	1239.7
35°	1272.0	1269.4	1269.8	1267.9	1268.5	1267.0	1265.8
37.5°	1343.5	1341.0	1338.3	1334.5	1332.4	1335.3	1335.2
40°	1477.5	1479.1	1472.2	1470.3	1466.4	1469.2	1472.8
42.5°	1676.7	1678.5	1679.7	1669.4	1669.2	1667.0	1660.8
45°	1912.6	1908.3	1910.2	1905.4	1903.6	1896.8	1905.1
47.5°	2162.2	2165.0	2153.9	2150.2	2156.7	2145.5	2147.0
50°	2429.2	2429.8	2421.4	2419.5	2425.5	2404.3	2414.2
52.5°	2716.9	2718.2	2724.7	2716.9	2720.0	2715.0	2724.9
55°	3022.9	3046.2	3048.4	3056.8	3057.3	3067.6	3057.4
57.5°	3344.6	3370.8	3395.7	3429.4	3436.9	3433.0	3439.4
60°	3731.8	3801.0	3838.2	3891.2	3899.6	3922.5	3902.6
62.5°	4239.1	4346.6	4427.9	4468.9	4493.6	4541.8	4525.9
65°	4948.5	5076.7	5200.0	5259.0	5324.1	5392.3	5404.7
67.5°	5529.7	5671.9	5800.3	5902.4	5981.8	6032.0	6036.0
69°	5602.3	5753.5	5888.7	6002.3	6079.5	6130.8	6144.5
70°	5536.8	5691.5	5834.7	5942.9	6029.2	6081.6	6099.9
72.5°	5016.8	5201.0	5315.7	5426.1	5547.6	5563.4	5613.7
75°	3971.2	4136.4	4249.0	4278.2	4341.8	4421.8	4393.2
77.5°	2071.3	2143.3	2167.2	2116.3	2113.9	2160.7	2067.6
80°	394.4	395.0	388.6	386.0	390.7	386.0	379.5
82.5°	111.3	109.8	108.8	111.3	111.1	110.7	112.8
85°	51.5	49.9	47.4	47.4	48.7	46.8	47.7
87.5°	7.2	6.0	6.0	6.0	5.6	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)