

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: P181514

Luminaire Tested: **ICS-F04-LED-E1-T3**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181514
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F04-LED-E1-T3
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9165.6 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

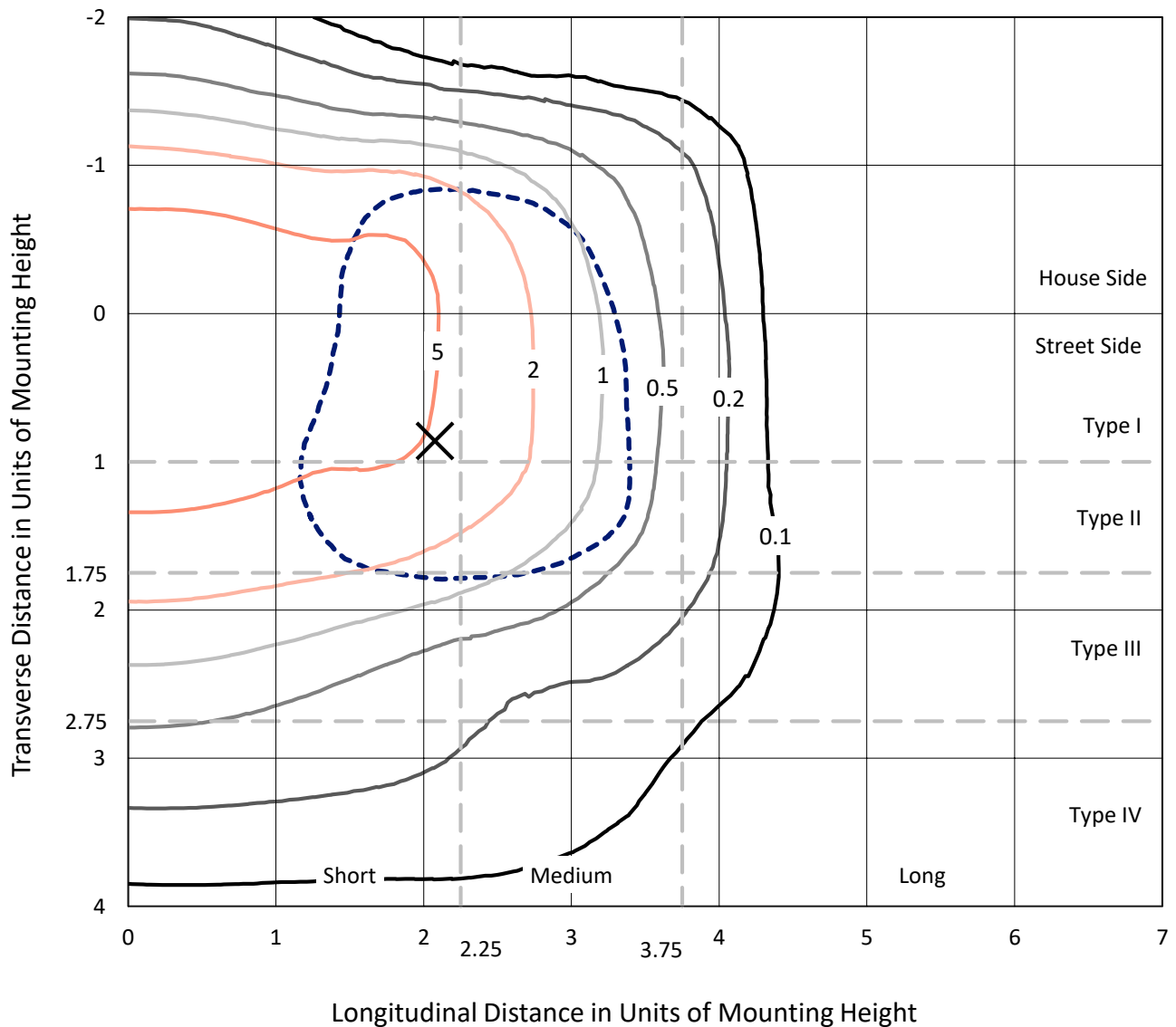
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

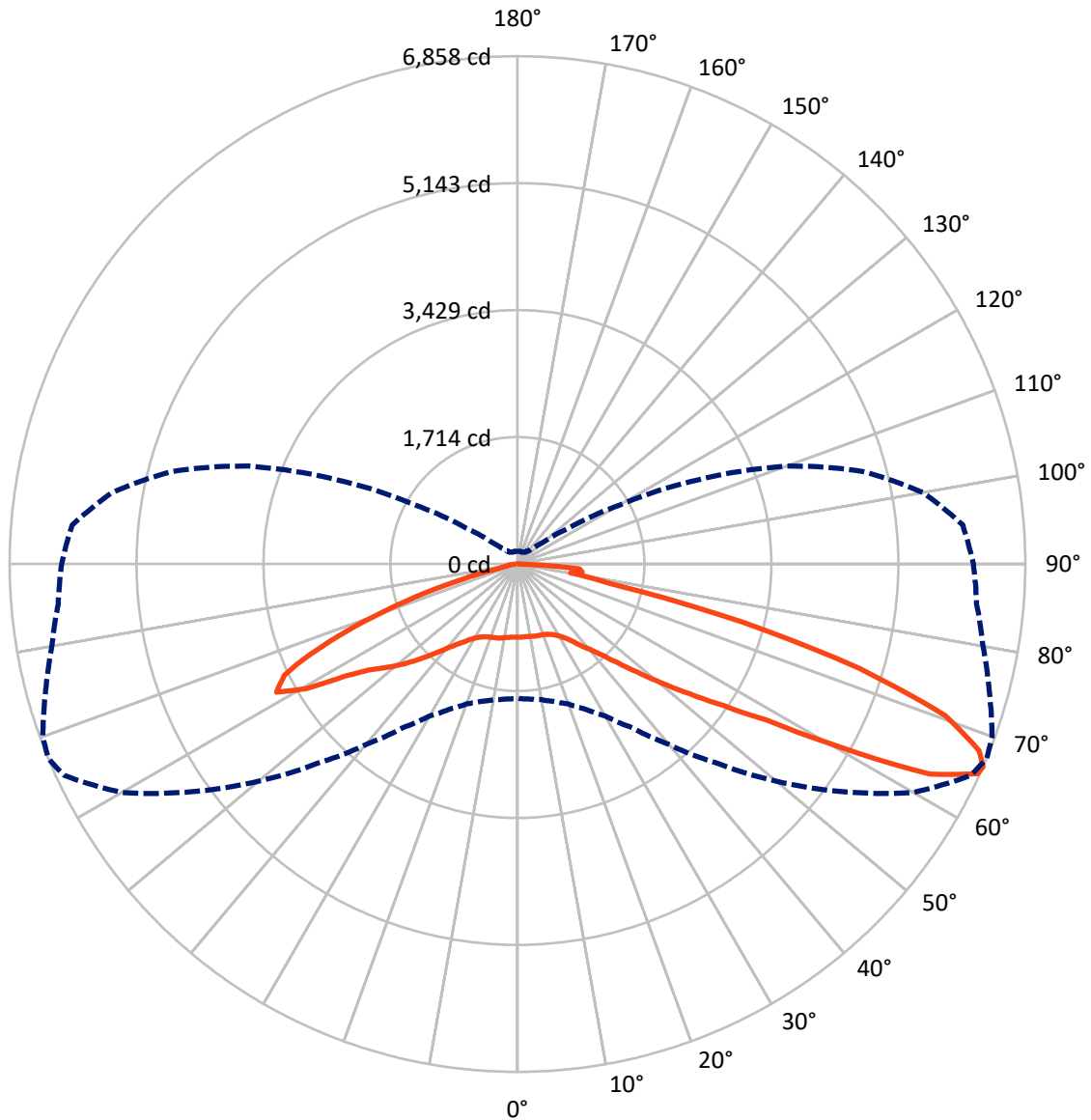
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3165.2	0.0	3165.2
	% Fixture	34.5	0.0	34.5
Street Side	Lumens	6000.4	0.0	6000.4
	% Fixture	65.5	0.0	65.5
Total	Lumens	9165.6	0.0	9165.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	1.0
10°-20°	279.2	3.0
20°-30°	479.8	5.2
30°-40°	779.1	8.5
40°-50°	1300.8	14.2
50°-60°	2048.2	22.3
60°-70°	2793.0	30.5
70°-80°	1209.1	13.2
80°-90°	181.8	2.0
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°	9165.6	100.0
0°-180°	9165.6	100.0



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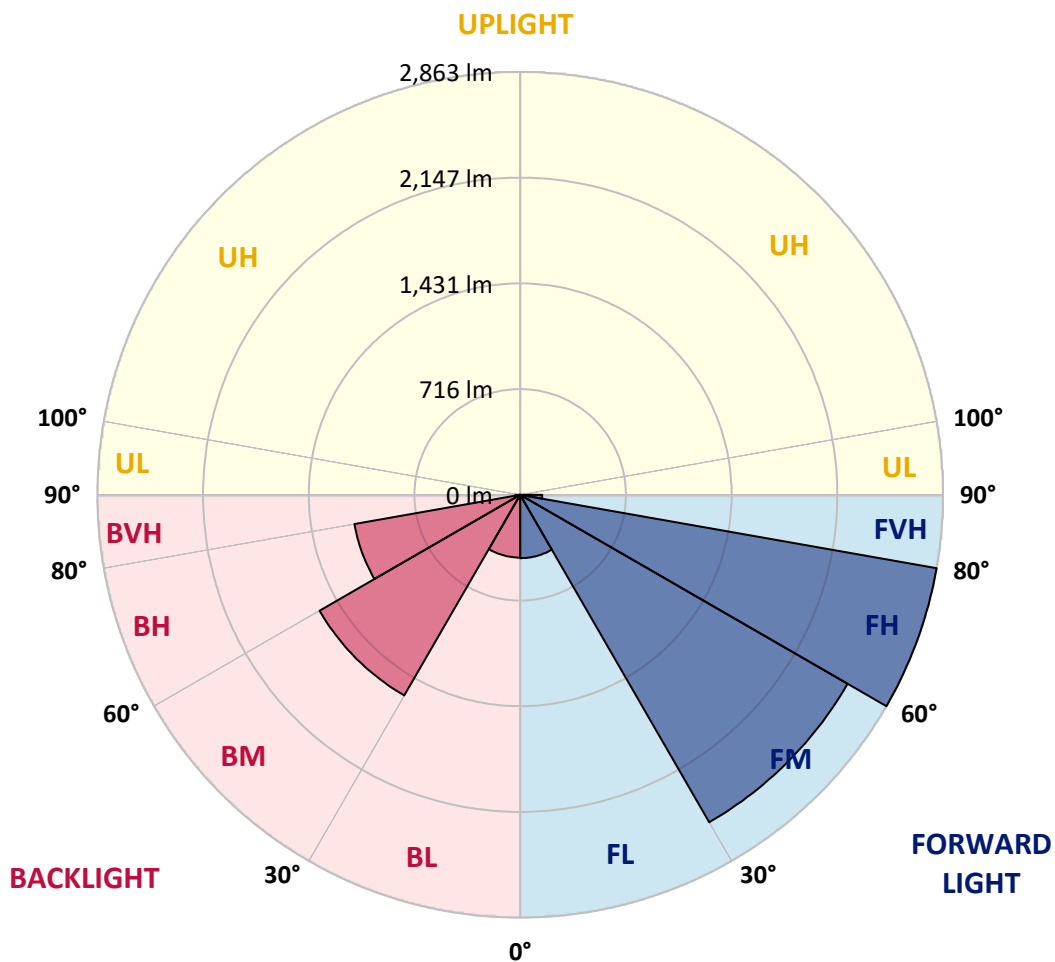
CATALOG NUMBER: ICS-F04-LED-E1-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	428.8	4.7			
FM	(30°-60°)	2559.6	27.9			
FH	(60°-80°)	2862.7	31.2			G2/5000
FVH	(80°-90°)	149.3	1.6			G2/225
BL	(0°-30°)	424.9	4.6	B1/500		
BM	(30°-60°)	1568.5	17.1	B2/2500		
BH	(60°-80°)	1139.3	12.4	B3/2500		G3/2500
BVH	(80°-90°)	32.5	0.4			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	987.7	987.7	987.7	987.7	987.7	987.7	987.7	987.7	987.7	987.7	987.7
2.5°	991.7	995.6	991.7	992.7	993.7	992.7	991.7	991.7	988.7	990.7	992.7
5°	987.7	990.7	989.7	990.7	991.7	990.7	989.7	990.7	988.7	989.7	992.7
7.5°	982.8	981.8	982.8	984.7	986.7	986.7	986.7	987.7	986.7	986.7	989.7
10°	967.9	968.9	970.9	973.8	974.8	977.8	977.8	980.8	981.8	983.7	987.7
12.5°	949.1	950.1	952.0	954.0	959.0	963.9	963.9	970.9	973.8	978.8	985.7
15°	935.2	936.2	938.2	940.2	944.1	949.1	952.0	960.0	964.9	973.8	983.7
17.5°	943.1	942.1	944.1	945.1	945.1	949.1	949.1	955.0	961.0	968.9	981.8
20°	965.9	965.9	967.9	967.9	966.9	968.9	964.9	964.9	965.9	969.9	978.8
22.5°	988.7	987.7	991.7	993.7	994.6	997.6	993.7	992.7	987.7	984.7	987.7
25°	1010.5	1009.5	1014.5	1017.4	1022.4	1025.4	1025.4	1025.4	1021.4	1016.4	1013.5
27.5°	1044.2	1044.2	1049.1	1052.1	1056.1	1062.0	1065.0	1065.0	1066.0	1059.0	1054.1
30°	1100.6	1101.6	1102.6	1106.6	1110.6	1112.5	1116.5	1119.5	1122.4	1118.5	1110.6
32.5°	1168.0	1162.1	1162.1	1168.0	1173.0	1178.9	1180.9	1184.9	1190.8	1187.8	1186.8
35°	1248.3	1246.3	1244.3	1246.3	1252.2	1259.2	1267.1	1274.0	1270.1	1276.0	1273.0
37.5°	1367.1	1369.1	1370.1	1370.1	1369.1	1371.1	1375.1	1382.0	1380.0	1382.0	1386.0
40°	1563.3	1556.4	1549.4	1550.4	1540.5	1542.5	1526.6	1533.6	1534.6	1527.6	1530.6
42.5°	1759.5	1763.4	1766.4	1774.3	1767.4	1763.4	1748.6	1748.6	1740.6	1733.7	1731.7
45°	1971.5	1979.4	1980.4	1996.2	1990.3	2003.2	2014.1	2011.1	1998.2	1997.2	1983.3
47.5°	2140.9	2153.7	2167.6	2186.4	2201.3	2230.0	2263.7	2280.6	2290.5	2298.4	2282.5
50°	2267.7	2273.6	2309.3	2339.0	2371.7	2419.2	2465.8	2526.2	2574.8	2597.6	2619.4
52.5°	2336.0	2350.9	2389.5	2436.1	2493.6	2564.9	2640.2	2736.3	2819.5	2875.0	2924.5
55°	2350.9	2365.8	2409.3	2468.8	2547.0	2643.1	2751.1	2881.9	3006.7	3113.7	3217.7
57.5°	2309.3	2326.1	2372.7	2441.0	2533.2	2650.1	2785.8	2957.2	3129.6	3302.9	3456.5
60°	2233.0	2253.8	2296.4	2363.8	2465.8	2597.6	2760.0	2975.0	3216.8	3482.3	3776.5
62.5°	2107.2	2129.0	2168.6	2242.9	2347.9	2493.6	2681.8	2949.3	3291.1	3709.1	4231.2
65°	1905.1	1915.0	1963.5	2038.8	2132.0	2292.4	2499.5	2822.5	3267.3	3848.8	4568.0
66°	1813.9	1830.8	1860.5	1920.9	2010.1	2160.7	2368.7	2696.6	3177.1	3800.3	4559.1
67.5°	1671.3	1684.2	1704.0	1744.6	1799.1	1910.0	2107.2	2417.3	2901.7	3554.6	4369.9
70°	1351.3	1357.2	1384.0	1397.9	1416.7	1453.3	1524.7	1703.0	2080.4	2693.7	3526.8
72.5°	921.3	938.2	966.9	1006.5	1058.1	1107.6	1141.3	1164.1	1245.3	1606.9	2349.9
75°	675.6	693.5	730.1	782.6	872.8	975.8	1082.8	1132.4	1098.7	1052.1	1308.7
77.5°	392.3	416.1	446.8	497.3	580.5	717.3	900.5	1063.0	1173.0	1179.9	1120.5
80°	165.4	168.4	187.2	213.0	264.5	360.6	503.3	737.1	980.8	1145.2	1183.9
82.5°	37.6	46.6	59.4	70.3	86.2	118.9	176.3	293.2	530.0	831.2	1083.8
85°	13.9	13.9	18.8	27.7	31.7	35.7	46.6	74.3	126.8	233.8	487.4
87.5°	0.0	1.0	2.0	2.0	4.0	5.0	7.9	10.9	9.9	8.9	29.7
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°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	987.7	987.7	987.7	987.7	987.7	987.7	987.7	987.7	987.7	987.7	987.7
2.5°	990.7	989.7	987.7	987.7	987.7	987.7	985.7	986.7	984.7	985.7	985.7
5°	989.7	989.7	988.7	986.7	987.7	987.7	988.7	986.7	986.7	987.7	986.7
7.5°	989.7	988.7	988.7	988.7	989.7	988.7	989.7	989.7	989.7	990.7	990.7
10°	989.7	989.7	991.7	992.7	992.7	993.7	996.6	996.6	997.6	998.6	1000.6
12.5°	990.7	994.6	997.6	1000.6	1001.6	1003.6	1008.5	1008.5	1010.5	1013.5	1014.5
15°	991.7	997.6	1003.6	1005.5	1007.5	1011.5	1016.4	1018.4	1021.4	1024.4	1026.3
17.5°	990.7	998.6	1005.5	1008.5	1011.5	1016.4	1022.4	1024.4	1028.3	1032.3	1036.3
20°	989.7	1000.6	1011.5	1015.5	1019.4	1026.3	1034.3	1039.2	1043.2	1049.1	1053.1
22.5°	995.6	1008.5	1023.4	1029.3	1036.3	1045.2	1056.1	1062.0	1067.0	1072.9	1075.9
25°	1014.5	1024.4	1042.2	1052.1	1061.0	1075.9	1090.7	1097.7	1103.6	1108.6	1109.6
27.5°	1046.2	1049.1	1070.9	1083.8	1096.7	1120.5	1138.3	1143.2	1154.1	1158.1	1157.1
30°	1097.7	1092.7	1110.6	1130.4	1149.2	1181.9	1203.7	1216.6	1226.5	1226.5	1218.5
32.5°	1172.0	1164.1	1169.0	1191.8	1213.6	1261.1	1286.9	1303.7	1310.7	1308.7	1291.9
35°	1269.1	1264.1	1261.1	1279.0	1313.6	1369.1	1402.8	1411.7	1422.6	1420.6	1398.8
37.5°	1384.0	1380.0	1380.0	1400.8	1434.5	1516.7	1553.4	1559.3	1558.3	1542.5	1501.9
40°	1519.7	1517.7	1508.8	1520.7	1549.4	1656.4	1706.0	1713.9	1703.0	1677.2	1629.7
42.5°	1714.9	1703.0	1675.2	1682.2	1704.0	1808.0	1872.4	1894.2	1883.3	1857.5	1780.3
45°	1969.5	1956.6	1910.0	1904.1	1916.0	2007.1	2090.3	2095.3	2093.3	2060.6	1969.5
47.5°	2268.7	2248.9	2199.3	2183.5	2179.5	2263.7	2344.0	2351.9	2346.9	2298.4	2176.5
50°	2592.6	2563.9	2531.2	2520.3	2504.4	2564.9	2646.1	2647.1	2627.3	2559.9	2446.0
52.5°	2938.4	2928.5	2922.5	2911.6	2904.7	2957.2	3006.7	2977.0	2947.3	2876.9	2777.9
55°	3287.1	3327.7	3369.3	3373.3	3385.2	3441.6	3440.6	3359.4	3337.6	3299.0	3200.9
57.5°	3657.6	3808.2	3939.0	3979.6	4019.2	4124.2	4114.3	4034.1	4006.3	3958.8	3877.5
60°	4161.9	4568.0	4945.5	5035.6	5098.1	5223.9	5212.0	5088.2	5145.6	5141.6	5036.6
62.5°	4868.2	5543.9	6109.5	6248.2	6291.8	6305.7	6230.4	6096.7	6153.1	6216.5	5893.6
65°	5346.7	6141.2	6721.8	6828.8	6834.7	6669.3	6501.9	6344.3	6330.5	6276.0	5814.3
66°	5357.6	6171.0	6753.5	6857.5	6820.9	6595.0	6383.0	6224.5	6156.1	6036.2	5557.7
67.5°	5165.4	5985.7	6612.8	6722.8	6642.5	6322.5	6030.3	5826.2	5692.5	5498.3	5076.3
70°	4338.2	5151.6	5924.3	6129.4	6155.1	5677.6	5272.4	5032.7	4852.4	4585.9	4222.3
72.5°	3225.7	3960.8	4642.3	4838.5	4938.6	4557.1	4215.4	4033.1	3786.4	3506.0	3247.5
75°	2022.0	2541.1	2997.8	3135.5	3041.4	2746.2	2541.1	2464.8	2222.1	2054.7	1936.8
77.5°	1156.1	1318.6	1355.3	1302.7	1191.8	912.4	648.9	480.5	417.1	461.7	509.2
80°	1128.4	1034.3	824.2	725.2	656.8	451.8	265.5	182.3	151.6	155.5	168.4
82.5°	1222.5	1311.7	1079.8	880.7	739.1	499.3	275.4	146.6	99.1	116.9	131.8
85°	794.5	1105.6	995.6	839.1	679.6	427.0	226.9	76.3	50.5	66.4	91.1
87.5°	80.2	88.2	75.3	102.0	76.3	35.7	17.8	10.9	9.9	11.9	17.8
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	987.7	987.7	987.7	987.7	987.7	987.7	987.7	987.7	987.7	987.7	987.7
2.5°	986.7	986.7	987.7	988.7	989.7	990.7	990.7	990.7	990.7	992.7	991.7
5°	988.7	990.7	992.7	993.7	995.6	995.6	998.6	997.6	997.6	1000.6	1001.6
7.5°	992.7	995.6	999.6	998.6	1002.6	1001.6	1003.6	1003.6	1000.6	1001.6	999.6
10°	1001.6	1005.5	1007.5	1004.6	1005.5	1001.6	1000.6	995.6	989.7	986.7	982.8
12.5°	1016.4	1020.4	1020.4	1015.5	1009.5	1000.6	993.7	982.8	973.8	968.9	963.9
15°	1029.3	1033.3	1032.3	1024.4	1015.5	1001.6	991.7	978.8	965.9	958.0	953.0
17.5°	1039.2	1041.2	1038.2	1027.3	1017.4	1004.6	994.6	980.8	965.9	956.0	947.1
20°	1054.1	1052.1	1045.2	1031.3	1020.4	1008.5	1000.6	988.7	971.9	959.0	946.1
22.5°	1075.9	1068.0	1055.1	1040.2	1029.3	1018.4	1010.5	997.6	980.8	964.9	950.1
25°	1104.6	1088.8	1070.9	1055.1	1045.2	1033.3	1024.4	1010.5	992.7	974.8	957.0
27.5°	1146.2	1118.5	1095.7	1081.8	1070.9	1056.1	1045.2	1027.3	1008.5	987.7	967.9
30°	1192.8	1155.1	1133.3	1122.4	1110.6	1094.7	1077.9	1055.1	1033.3	1010.5	986.7
32.5°	1253.2	1207.6	1186.8	1175.9	1160.1	1140.3	1120.5	1094.7	1064.0	1034.3	1005.5
35°	1332.5	1285.9	1264.1	1247.3	1225.5	1199.7	1171.0	1136.3	1094.7	1055.1	1018.4
37.5°	1417.7	1367.1	1346.3	1328.5	1295.8	1262.1	1221.5	1171.0	1114.5	1062.0	1016.4
40°	1525.7	1479.1	1452.3	1421.6	1383.0	1324.5	1261.1	1187.8	1115.5	1051.1	997.6
42.5°	1662.4	1615.8	1576.2	1527.6	1460.3	1370.1	1280.0	1184.9	1097.7	1024.4	966.9
45°	1843.7	1787.2	1718.8	1633.6	1524.7	1398.8	1281.0	1166.0	1064.0	982.8	921.3
47.5°	2065.6	1979.4	1867.4	1723.8	1567.3	1406.8	1265.1	1128.4	1011.5	923.3	855.0
50°	2329.1	2193.4	2009.1	1798.1	1589.1	1394.9	1225.5	1071.9	937.2	843.1	761.8
52.5°	2630.3	2408.4	2136.9	1851.6	1588.1	1355.3	1158.1	986.7	840.1	735.1	657.8
55°	2983.9	2654.0	2268.7	1891.2	1560.3	1281.9	1055.1	866.8	720.2	623.1	551.8
57.5°	3502.1	3052.3	2498.5	1952.6	1504.8	1169.0	915.4	723.2	594.4	502.3	441.8
60°	4449.2	3717.0	2912.6	2076.5	1419.6	1003.6	751.9	569.6	461.7	387.4	346.7
62.5°	5162.5	4231.2	3136.5	2048.7	1248.3	799.5	557.8	415.1	339.8	289.3	263.5
65°	5060.4	4071.7	2897.8	1764.4	978.8	563.7	370.5	282.3	233.8	210.0	195.2
66°	4829.6	3863.7	2690.7	1588.1	846.0	468.6	305.1	236.8	201.1	184.3	174.4
67.5°	4391.7	3477.3	2320.2	1301.8	649.9	339.8	229.8	187.2	163.5	156.5	149.6
70°	3650.7	2772.9	1628.7	757.9	331.9	189.2	145.6	130.8	124.8	123.8	121.9
72.5°	2797.7	1962.5	959.0	358.6	172.4	125.8	112.9	108.0	106.0	106.0	107.0
75°	1714.9	1102.6	424.0	175.4	120.9	106.0	100.1	98.1	97.1	98.1	97.1
77.5°	572.6	350.7	181.3	132.8	110.0	98.1	94.1	92.1	92.1	92.1	92.1
80°	175.4	152.6	138.7	122.8	104.0	93.1	87.2	86.2	87.2	88.2	85.2
82.5°	131.8	124.8	116.9	109.0	94.1	83.2	81.2	81.2	81.2	78.3	74.3
85°	97.1	96.1	79.3	74.3	69.3	69.3	69.3	69.3	66.4	61.4	57.5
87.5°	17.8	16.8	17.8	18.8	27.7	29.7	29.7	31.7	34.7	32.7	32.7
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):

	160°	165°	170°	175°	180°
0°	987.7	987.7	987.7	987.7	987.7
2.5°	991.7	990.7	993.7	991.7	992.7
5°	1000.6	999.6	1001.6	999.6	1002.6
7.5°	997.6	995.6	994.6	995.6	996.6
10°	976.8	974.8	973.8	972.9	973.8
12.5°	959.0	955.0	955.0	953.0	954.0
15°	946.1	943.1	942.1	940.2	941.1
17.5°	940.2	935.2	933.2	931.2	931.2
20°	936.2	930.3	927.3	925.3	924.3
22.5°	936.2	927.3	923.3	921.3	920.3
25°	940.2	929.3	923.3	920.3	919.4
27.5°	948.1	934.2	927.3	923.3	923.3
30°	962.0	944.1	934.2	929.3	928.3
32.5°	975.8	952.0	938.2	932.2	930.3
35°	982.8	952.0	935.2	925.3	923.3
37.5°	974.8	939.2	918.4	903.5	900.5
40°	950.1	912.4	889.6	875.8	873.8
42.5°	917.4	880.7	854.0	844.1	841.1
45°	872.8	829.2	802.5	788.6	789.6
47.5°	796.5	751.9	728.2	715.3	717.3
50°	706.4	662.8	642.0	628.1	631.1
52.5°	607.3	567.7	547.8	540.9	538.9
55°	503.3	472.6	458.7	450.8	447.8
57.5°	408.2	386.4	376.5	366.6	367.5
60°	322.0	311.1	308.1	297.2	296.2
62.5°	253.6	246.7	243.7	235.8	236.8
65°	192.2	190.2	192.2	187.2	189.2
66°	173.4	174.4	174.4	171.4	173.4
67.5°	149.6	151.6	154.5	151.6	153.6
70°	123.8	125.8	127.8	127.8	127.8
72.5°	108.0	110.0	111.0	111.0	111.0
75°	99.1	100.1	101.0	99.1	99.1
77.5°	93.1	93.1	91.1	90.2	89.2
80°	84.2	83.2	80.2	78.3	78.3
82.5°	70.3	68.4	66.4	63.4	63.4
85°	53.5	51.5	49.5	45.6	43.6
87.5°	27.7	28.7	27.7	22.8	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)