

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: P181312

Luminaire Tested: **ICS-F04-LED-E1-T2-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181312
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
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-T2-8030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7685.3 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

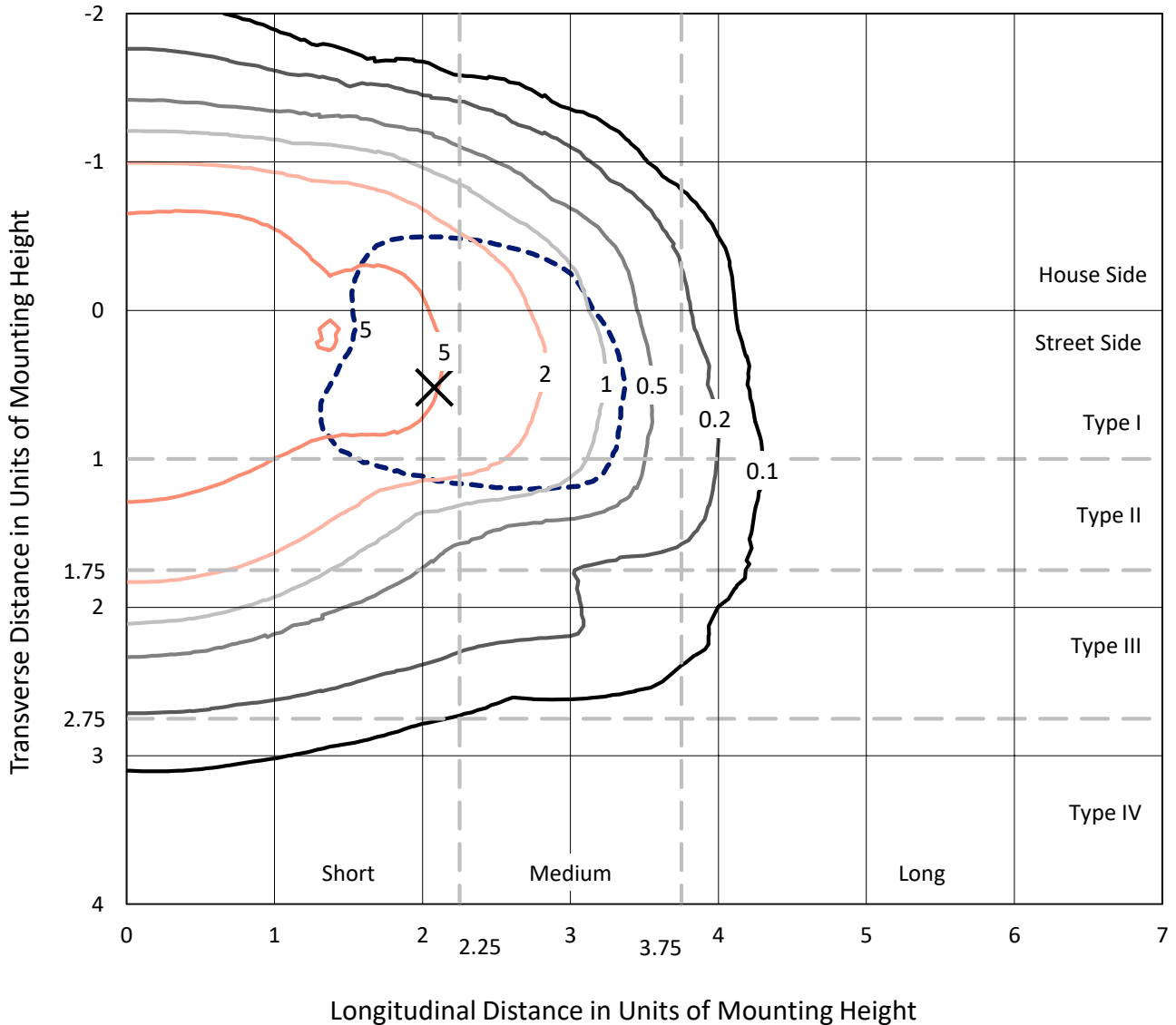
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

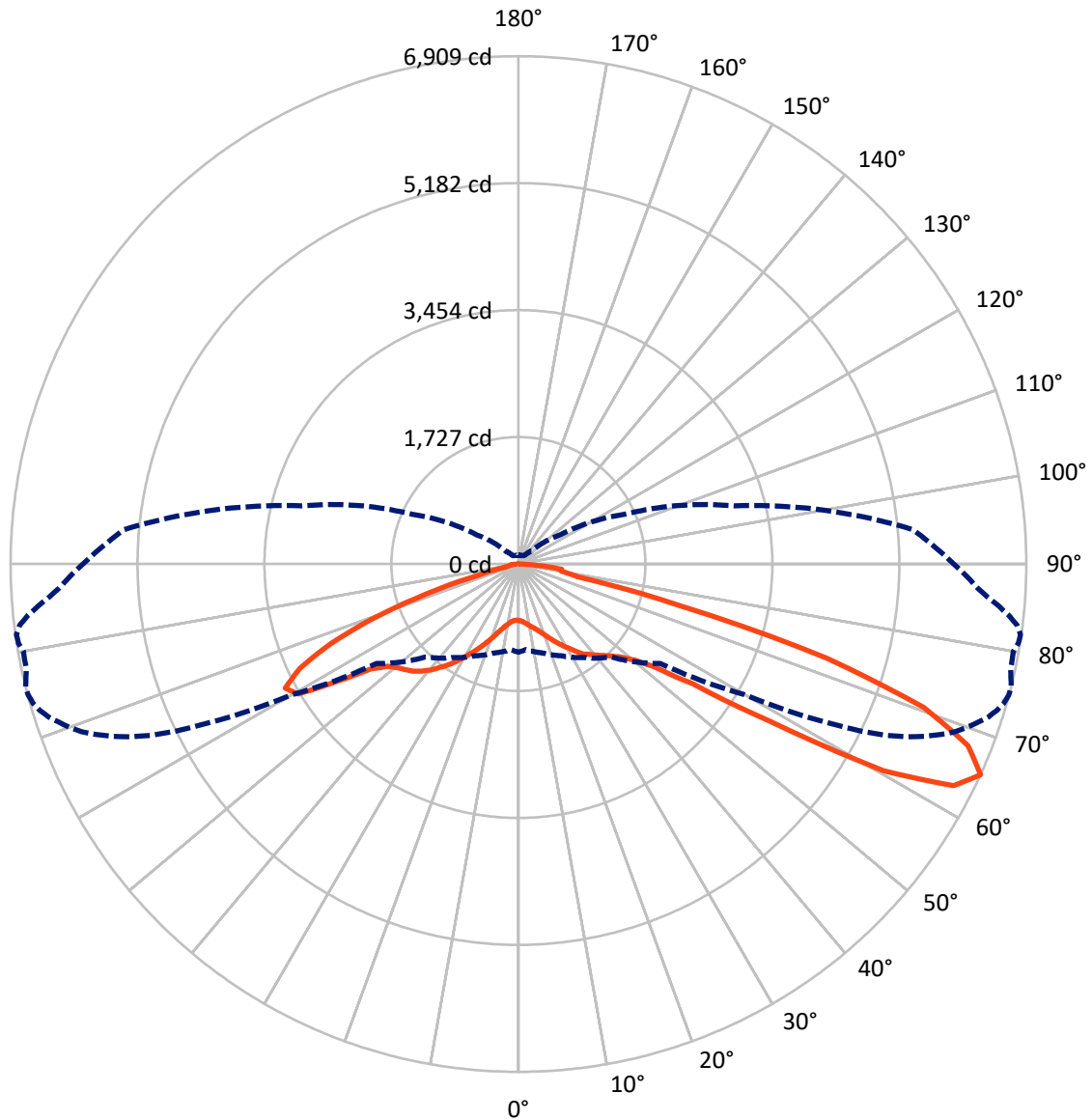
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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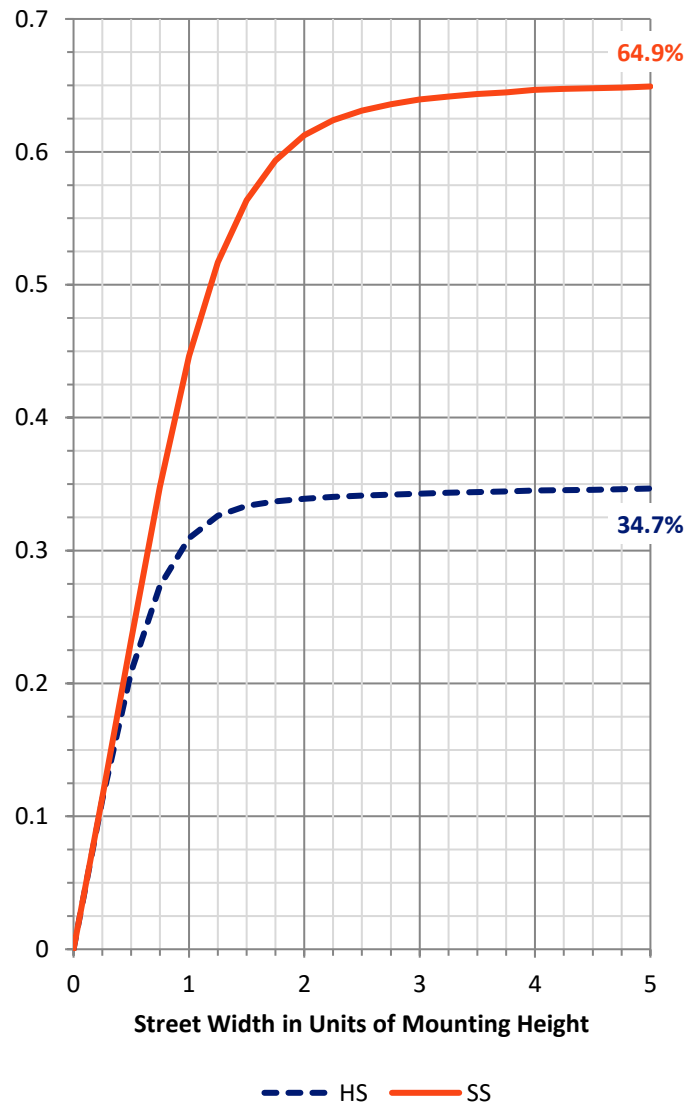
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2691.2	0.0	2691.2
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	4994.1	0.0	4994.1
	% Fixture	65.0	0.0	65.0
Total	Lumens	7685.3	0.0	7685.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	1.0
10°-20°	264.3	3.4
20°-30°	519.2	6.8
30°-40°	862.7	11.2
40°-50°	1267.7	16.5
50°-60°	1755.1	22.8
60°-70°	2094.9	27.3
70°-80°	740.9	9.6
80°-90°	103.5	1.3
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°	7685.3	100.0
0°-180°	7685.3	100.0



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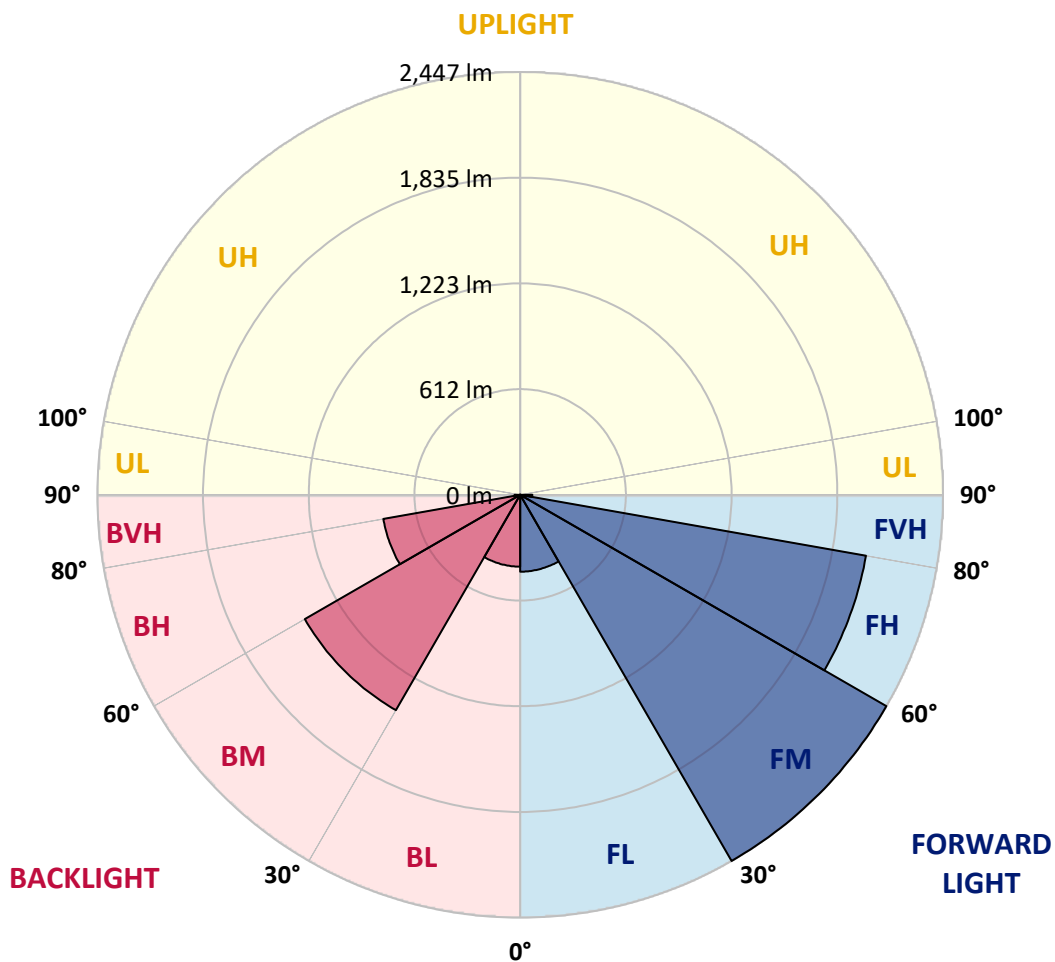
CATALOG NUMBER: ICS-F04-LED-E1-T2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	444.7	5.8			
FM	(30°-60°)	2446.8	31.8			
FH	(60°-80°)	2031.9	26.4			G2/5000
FVH	(80°-90°)	70.8	0.9			G1/100
BL	(0°-30°)	415.8	5.4	B1/500		
BM	(30°-60°)	1438.8	18.7	B2/2500		
BH	(60°-80°)	803.9	10.5	B2/1000		G2/1000
BVH	(80°-90°)	32.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4
2.5°	801.8	802.7	801.0	800.2	797.7	793.5	790.1	786.8	786.8	786.8	784.3
5°	837.0	838.6	835.3	832.8	825.3	821.1	815.2	811.0	809.4	808.5	806.0
7.5°	881.3	878.8	873.8	872.1	866.2	857.0	846.2	837.8	837.8	837.0	837.8
10°	925.6	918.9	916.4	913.9	904.7	893.0	880.4	871.2	870.4	869.6	867.1
12.5°	969.9	967.4	964.9	955.7	946.5	928.1	913.9	904.7	903.9	904.7	901.3
15°	1028.4	1022.6	1020.1	1004.2	984.1	964.1	946.5	938.1	935.6	936.5	934.0
17.5°	1073.6	1073.6	1067.7	1050.2	1024.3	996.7	978.3	973.3	972.4	972.4	973.3
20°	1109.5	1108.7	1102.9	1088.6	1057.7	1030.1	1020.9	1019.2	1018.4	1018.4	1020.9
22.5°	1129.6	1127.9	1125.4	1109.5	1085.3	1066.9	1067.7	1072.8	1074.4	1076.1	1079.4
25°	1139.6	1137.1	1136.3	1125.4	1107.9	1105.4	1120.4	1133.8	1137.1	1140.5	1144.7
27.5°	1156.4	1152.2	1153.9	1149.7	1145.5	1153.0	1184.0	1198.2	1200.7	1204.9	1207.4
30°	1202.4	1200.7	1207.4	1209.0	1212.4	1223.3	1251.7	1265.1	1270.9	1270.9	1282.6
32.5°	1290.1	1291.0	1292.7	1310.2	1316.1	1323.6	1338.6	1349.5	1350.3	1351.2	1362.1
35°	1408.0	1413.1	1427.3	1442.3	1456.5	1455.7	1446.5	1452.4	1448.2	1453.2	1454.0
37.5°	1556.9	1550.2	1571.1	1605.4	1627.1	1621.3	1580.3	1553.5	1561.1	1557.7	1555.2
40°	1671.4	1678.9	1719.1	1764.2	1781.0	1799.3	1745.8	1699.8	1693.2	1680.6	1673.1
42.5°	1829.4	1830.3	1862.9	1896.3	1944.8	1985.0	1950.7	1884.6	1864.6	1849.5	1816.9
45°	1975.8	1973.3	2000.0	2041.0	2098.7	2156.4	2168.9	2097.0	2089.5	2062.7	2020.1
47.5°	2073.6	2070.3	2088.6	2142.2	2235.8	2330.3	2382.1	2360.4	2346.2	2335.3	2268.4
50°	2139.7	2133.0	2153.9	2210.7	2315.2	2460.7	2596.2	2614.6	2608.7	2608.7	2566.1
52.5°	2189.0	2189.0	2204.0	2250.0	2356.2	2537.6	2780.1	2872.9	2880.5	2888.8	2886.3
55°	2161.4	2165.6	2203.2	2270.1	2382.1	2591.2	2932.3	3135.5	3177.3	3212.4	3252.5
57.5°	2066.9	2081.1	2131.3	2240.8	2388.8	2631.3	3101.2	3503.4	3621.3	3723.3	3882.1
60°	1928.9	1947.3	2020.1	2159.7	2339.5	2566.1	3160.6	3814.4	4001.7	4224.1	4638.8
62.5°	1692.3	1710.7	1781.8	1921.4	2075.3	2316.1	2914.7	3860.4	4159.7	4475.0	5102.1
65°	1199.0	1169.7	1251.7	1377.1	1553.5	1786.8	2355.4	3551.9	3982.5	4409.7	5184.0
67.5°	668.1	665.6	715.7	809.4	978.3	1229.1	1622.9	2724.1	3120.4	3604.5	4555.2
70°	460.7	465.7	497.5	598.7	738.3	954.9	1156.4	1710.7	1995.8	2324.4	3259.2
72.5°	323.6	334.5	352.0	412.2	555.2	804.4	1181.4	1022.6	1164.7	1388.8	1959.9
75°	189.8	197.3	209.9	239.1	316.1	537.6	1223.3	898.8	898.8	951.5	1185.6
77.5°	117.1	117.1	124.6	136.3	168.1	263.4	871.2	1010.0	981.6	951.5	954.0
80°	60.2	64.4	75.3	81.1	93.6	120.4	391.3	942.3	1033.5	1094.5	1051.8
82.5°	27.6	30.9	46.0	49.3	54.3	63.5	134.6	536.0	718.2	945.7	1181.4
85°	14.2	14.2	24.2	30.1	32.6	29.3	49.3	216.6	327.8	500.0	782.6
87.5°	2.5	2.5	4.2	5.0	7.5	6.7	8.4	12.5	20.9	22.6	23.4
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4
2.5°	783.5	784.3	783.5	782.6	780.9	780.9	780.9	780.1	780.1	780.1	779.3
5°	806.0	802.7	803.5	801.8	801.0	800.2	801.0	799.3	797.7	798.5	797.7
7.5°	834.5	832.8	829.4	829.4	828.6	826.9	826.9	824.4	823.6	821.9	821.1
10°	866.2	862.0	863.7	862.0	862.9	859.5	857.9	856.2	854.5	854.5	855.4
12.5°	898.8	898.0	895.5	893.8	893.8	891.3	892.1	891.3	888.8	888.0	885.5
15°	932.3	932.3	929.8	930.6	929.8	928.1	926.4	926.4	924.8	923.1	923.9
17.5°	971.6	971.6	971.6	971.6	972.4	969.9	970.7	969.1	967.4	970.7	970.7
20°	1022.6	1025.9	1025.9	1025.1	1029.3	1026.8	1025.9	1030.1	1025.9	1031.8	1030.9
22.5°	1081.1	1084.5	1084.5	1087.8	1088.6	1091.1	1092.8	1091.1	1094.5	1097.8	1097.8
25°	1146.3	1149.7	1152.2	1157.2	1159.7	1158.0	1158.9	1163.1	1164.7	1168.1	1171.4
27.5°	1214.9	1215.7	1219.1	1224.9	1229.1	1230.8	1231.6	1238.3	1239.1	1240.8	1244.2
30°	1281.8	1290.1	1288.5	1296.0	1298.5	1301.0	1306.0	1308.5	1314.4	1317.7	1317.7
32.5°	1360.4	1358.7	1365.4	1371.3	1375.4	1379.6	1383.8	1387.1	1390.5	1392.2	1400.5
35°	1458.2	1461.6	1461.6	1462.4	1472.4	1473.3	1476.6	1484.1	1486.6	1491.7	1495.0
37.5°	1555.2	1549.3	1548.5	1548.5	1545.2	1547.7	1548.5	1549.3	1552.7	1553.5	1556.9
40°	1663.9	1656.4	1649.7	1645.5	1638.8	1629.6	1627.9	1623.8	1626.3	1625.4	1626.3
42.5°	1812.7	1791.8	1775.9	1764.2	1750.9	1740.8	1733.3	1722.4	1714.9	1705.7	1704.0
45°	2002.5	1963.2	1936.5	1917.2	1898.0	1870.4	1854.5	1837.8	1822.8	1807.7	1795.2
47.5°	2251.7	2209.9	2167.2	2132.1	2102.0	2057.7	2012.6	1987.5	1958.2	1932.3	1913.9
50°	2545.2	2495.0	2474.9	2425.6	2388.0	2321.1	2265.1	2224.1	2165.6	2126.3	2092.0
52.5°	2845.3	2832.8	2821.9	2780.1	2735.8	2697.3	2648.0	2576.1	2516.7	2471.6	2401.4
55°	3254.2	3260.1	3255.9	3233.3	3217.4	3180.6	3160.6	3097.9	3071.1	3005.9	2932.3
57.5°	3942.3	3989.2	4048.5	4071.9	4103.7	4073.6	4108.7	4151.4	4045.2	4082.0	4015.9
60°	4821.1	5036.0	5163.9	5321.1	5424.0	5567.8	5593.7	5631.3	5620.5	5641.4	5684.0
62.5°	5357.9	5612.9	5857.9	6036.0	6226.6	6332.0	6459.1	6547.7	6639.7	6701.6	6684.0
65°	5515.9	5778.5	6000.9	6195.7	6366.3	6495.0	6612.9	6724.1	6808.6	6868.0	6903.1
67.5°	4935.7	5278.5	5512.6	5740.9	5960.8	6096.2	6194.9	6302.7	6426.5	6529.3	6549.4
70°	3714.1	4228.3	4560.2	4833.7	5092.0	5274.3	5412.3	5512.6	5608.7	5682.3	5762.6
72.5°	2322.8	2772.6	3152.2	3506.7	3781.0	4031.8	4148.0	4370.4	4341.2	4397.2	4457.4
75°	1392.2	1611.2	1820.3	2070.3	2214.1	2423.1	2460.7	2497.5	2478.3	2415.6	2462.4
77.5°	967.4	1003.4	1001.7	987.5	972.4	935.6	888.0	862.0	844.5	819.4	829.4
80°	973.3	895.5	776.8	653.0	539.3	464.1	434.0	434.0	464.9	509.2	553.5
82.5°	1163.1	1080.3	963.2	806.0	638.8	520.1	440.6	408.9	414.7	459.9	516.7
85°	784.3	802.7	704.0	643.8	510.0	397.2	332.8	270.1	239.1	246.7	279.3
87.5°	28.4	34.3	12.5	16.7	11.7	10.0	10.0	10.9	7.5	9.2	8.4
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4
2.5°	778.4	777.6	777.6	775.9	775.9	775.1	775.1	774.3	773.4	773.4	772.6
5°	796.8	796.0	794.3	793.5	791.8	791.8	791.0	789.3	789.3	787.6	786.8
7.5°	822.8	821.1	819.4	818.6	817.7	815.2	815.2	813.6	813.6	811.9	811.0
10°	853.7	852.0	850.3	851.2	848.7	847.8	846.2	846.2	843.7	842.8	842.8
12.5°	887.1	886.3	886.3	883.8	883.0	882.1	878.8	878.8	878.8	877.1	877.9
15°	923.1	923.9	921.4	923.9	923.1	920.6	920.6	920.6	917.2	921.4	918.1
17.5°	971.6	974.1	972.4	973.3	971.6	971.6	972.4	971.6	973.3	973.3	978.3
20°	1031.8	1032.6	1036.8	1035.1	1035.1	1034.3	1036.0	1036.8	1040.1	1038.5	1041.8
22.5°	1097.8	1102.0	1102.9	1106.2	1106.2	1105.4	1107.0	1110.4	1112.1	1114.6	1113.7
25°	1173.1	1175.6	1178.9	1174.8	1181.4	1181.4	1183.1	1187.3	1188.1	1188.1	1194.0
27.5°	1243.3	1250.0	1250.8	1255.0	1252.5	1254.2	1260.0	1262.6	1265.9	1265.9	1267.6
30°	1322.8	1325.3	1326.9	1332.0	1331.1	1332.0	1332.8	1337.0	1337.0	1341.1	1345.3
32.5°	1404.7	1406.4	1408.0	1413.1	1414.7	1418.1	1416.4	1419.7	1423.9	1424.8	1427.3
35°	1502.5	1504.2	1505.9	1513.4	1514.2	1520.1	1521.8	1520.1	1526.8	1522.6	1526.8
37.5°	1559.4	1566.9	1568.6	1573.6	1571.9	1576.1	1578.6	1582.0	1583.6	1587.0	1593.7
40°	1628.8	1631.3	1636.3	1638.8	1642.2	1643.0	1646.3	1648.8	1651.4	1658.9	1666.4
42.5°	1699.8	1703.2	1705.7	1709.0	1713.2	1716.6	1719.1	1726.6	1728.3	1733.3	1747.5
45°	1786.0	1784.3	1785.1	1786.0	1787.6	1791.8	1799.3	1806.9	1811.9	1823.6	1835.3
47.5°	1893.0	1882.1	1877.9	1871.3	1872.9	1882.1	1883.8	1896.3	1906.4	1917.2	1931.5
50°	2055.2	2025.9	2008.4	1990.8	1989.1	1994.2	2000.9	2014.2	2025.9	2040.2	2060.2
52.5°	2327.8	2271.8	2236.6	2188.1	2174.8	2172.3	2167.2	2174.8	2178.1	2197.3	2235.0
55°	2879.6	2775.9	2709.1	2633.8	2563.6	2542.7	2502.5	2510.9	2502.5	2514.2	2570.3
57.5°	4031.8	3949.0	3883.8	3787.7	3667.3	3539.3	3507.6	3376.3	3402.2	3477.5	3429.0
60°	5704.9	5674.8	5628.0	5582.0	5417.3	5324.5	5173.1	5156.4	5050.2	5051.1	4981.7
62.5°	6641.4	6679.8	6651.4	6638.0	6628.8	6599.6	6524.3	6434.0	6298.6	6200.7	6056.9
65°	6908.9	6876.3	6845.4	6841.2	6838.7	6886.4	6897.2	6833.7	6710.8	6558.6	6393.0
67.5°	6597.1	6578.7	6580.3	6545.2	6567.0	6649.7	6707.4	6689.9	6577.0	6393.0	6182.3
70°	5854.6	5818.6	5855.4	5901.4	5934.0	5981.7	6039.4	6053.6	5950.7	5761.8	5546.9
72.5°	4383.8	4389.7	4424.8	4437.3	4568.6	4555.2	4607.1	4438.2	4363.8	4184.0	4073.6
75°	2306.9	2269.3	2367.1	2159.7	2074.4	2133.8	1967.4	1807.7	1841.2	1868.7	1669.7
77.5°	815.2	762.5	673.1	637.1	530.1	449.0	367.1	331.1	311.9	301.8	289.3
80°	585.3	602.0	583.6	540.1	459.0	367.9	290.1	229.1	196.5	178.9	167.2
82.5°	592.0	658.0	687.3	674.8	601.2	454.9	300.2	191.5	142.1	118.7	110.4
85°	317.7	347.8	334.5	281.8	253.3	151.3	103.7	69.4	58.5	53.5	49.3
87.5°	12.5	10.0	8.4	8.4	9.2	10.0	8.4	9.2	8.4	8.4	8.4
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4
2.5°	770.9	770.9	770.9	770.1	768.4	764.2	760.0	756.7	754.2	751.7	748.3
5°	786.0	784.3	784.3	784.3	777.6	770.9	765.1	759.2	754.2	750.0	746.7
7.5°	811.0	810.2	806.9	806.0	801.0	790.1	783.5	773.4	767.6	761.7	760.0
10°	841.1	840.3	839.5	838.6	831.9	821.1	812.7	803.5	795.2	786.8	778.4
12.5°	876.3	875.4	874.6	872.1	869.6	863.7	854.5	844.5	834.5	816.9	807.7
15°	919.7	921.4	919.7	918.9	917.2	918.1	912.2	898.0	882.1	859.5	840.3
17.5°	977.4	975.8	974.9	978.3	977.4	981.6	979.9	961.5	937.3	901.3	867.9
20°	1041.0	1041.0	1044.3	1046.8	1054.4	1065.2	1060.2	1037.6	993.3	943.2	899.7
22.5°	1117.1	1118.7	1122.1	1120.4	1132.1	1149.7	1151.3	1119.6	1061.9	992.5	931.4
25°	1196.5	1198.2	1194.8	1199.8	1219.1	1244.2	1249.2	1204.0	1127.9	1037.6	958.2
27.5°	1271.8	1273.4	1273.4	1280.1	1298.5	1341.1	1346.2	1296.0	1194.8	1076.9	977.4
30°	1345.3	1352.0	1353.7	1355.4	1383.0	1442.3	1453.2	1380.4	1253.4	1106.2	990.8
32.5°	1438.1	1440.6	1444.0	1448.2	1479.9	1552.7	1552.7	1453.2	1291.0	1124.6	993.3
35°	1537.6	1538.5	1546.0	1546.8	1592.0	1664.7	1650.5	1513.4	1317.7	1120.4	974.9
37.5°	1597.8	1601.2	1608.7	1618.7	1666.4	1769.2	1736.6	1565.2	1322.8	1092.8	933.1
40°	1672.3	1678.9	1686.5	1696.5	1767.6	1875.4	1809.4	1597.8	1301.9	1038.5	870.4
42.5°	1752.5	1761.7	1773.4	1791.8	1876.3	1969.1	1864.6	1602.9	1254.2	977.4	796.0
45°	1842.8	1859.5	1872.9	1894.7	1990.0	2050.2	1898.0	1573.6	1194.0	897.2	716.6
47.5°	1947.3	1960.7	1984.1	2007.5	2102.9	2105.4	1901.4	1516.7	1112.1	816.9	632.1
50°	2076.1	2084.5	2119.6	2133.8	2223.3	2163.1	1877.1	1439.8	1025.9	726.6	538.5
52.5°	2247.5	2259.2	2304.4	2326.1	2389.7	2241.7	1842.8	1356.2	927.3	625.4	442.3
55°	2586.1	2637.1	2668.9	2706.5	2747.5	2419.8	1827.8	1266.7	816.1	508.4	350.3
57.5°	3536.8	3520.1	3590.3	3675.6	3674.8	2826.9	1918.1	1189.8	684.8	388.8	269.2
60°	4953.2	4969.1	4933.2	4984.2	4822.0	3332.0	2041.8	1108.7	536.8	289.3	205.7
62.5°	6005.9	5913.9	5862.9	5802.7	5445.7	3387.2	1951.5	942.3	390.5	203.2	158.0
65°	6255.1	6147.2	6037.7	5923.1	5384.7	3053.5	1601.2	691.5	252.5	139.6	125.4
67.5°	6009.3	5836.2	5696.5	5578.6	4934.0	2531.0	1170.6	424.8	144.7	112.9	107.0
70°	5372.1	5180.6	4954.9	4822.8	4154.7	1865.4	750.0	229.1	111.2	100.3	97.8
72.5°	3932.3	3775.1	3528.5	3377.1	2983.3	1133.8	418.9	128.8	103.7	96.2	92.8
75°	1531.8	1449.8	1347.0	1355.4	1209.9	501.7	189.8	111.2	101.2	94.5	91.1
77.5°	263.4	256.7	237.5	237.5	270.1	183.1	126.3	112.0	100.3	92.8	87.0
80°	158.0	154.7	147.2	145.5	140.5	128.8	121.2	113.7	98.7	87.8	80.3
82.5°	103.7	99.5	97.0	96.2	104.5	112.9	113.7	112.9	93.6	76.1	65.2
85°	44.3	44.3	44.3	45.2	60.2	91.1	93.6	100.3	76.9	59.4	46.8
87.5°	7.5	9.2	9.2	10.0	10.9	20.1	25.1	32.6	25.9	25.1	22.6
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):

	165°	175°	180°
0°	768.4	768.4	768.4
2.5°	747.5	745.8	745.8
5°	745.0	743.3	744.2
7.5°	755.0	751.7	752.5
10°	773.4	770.1	768.4
12.5°	796.8	792.6	792.6
15°	821.1	811.0	810.2
17.5°	841.1	828.6	826.9
20°	863.7	847.0	844.5
22.5°	884.6	862.0	858.7
25°	899.7	872.1	867.9
27.5°	906.4	873.8	870.4
30°	911.4	874.6	869.6
32.5°	906.4	867.1	862.9
35°	878.8	836.1	833.6
37.5°	831.1	783.5	780.1
40°	768.4	718.2	709.9
42.5°	688.1	641.3	632.1
45°	610.4	556.9	552.7
47.5°	526.8	475.8	478.3
50°	439.0	393.0	392.1
52.5°	355.4	315.2	312.7
55°	280.1	251.7	249.2
57.5°	221.6	206.5	204.0
60°	180.6	173.1	170.6
62.5°	145.5	143.0	142.1
65°	121.2	121.2	121.2
67.5°	105.4	106.2	106.2
70°	97.0	97.8	97.0
72.5°	93.6	96.2	96.2
75°	91.1	92.8	89.5
77.5°	89.5	90.3	84.4
80°	88.6	87.8	76.9
82.5°	76.9	74.4	65.2
85°	70.2	53.5	45.2
87.5°	36.0	25.1	19.2
90°	0.0	0.0	0.0

(END OF REPORT)