

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: P401470

Luminaire Tested: **ENC-SA1D-735-U-SL3**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENC-SA1D-735-U-SL3
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5203 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

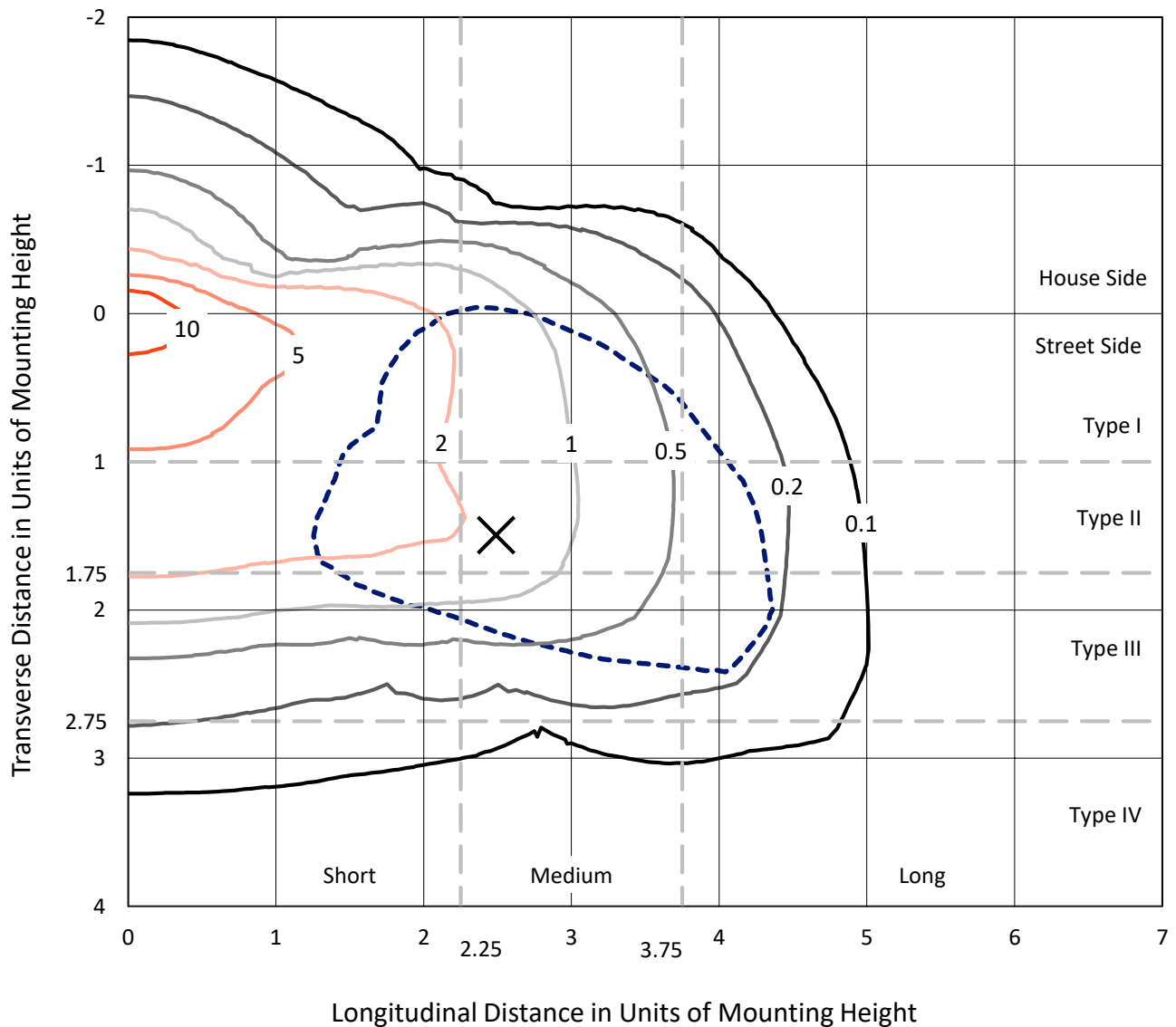
Input Watts (W): 43.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

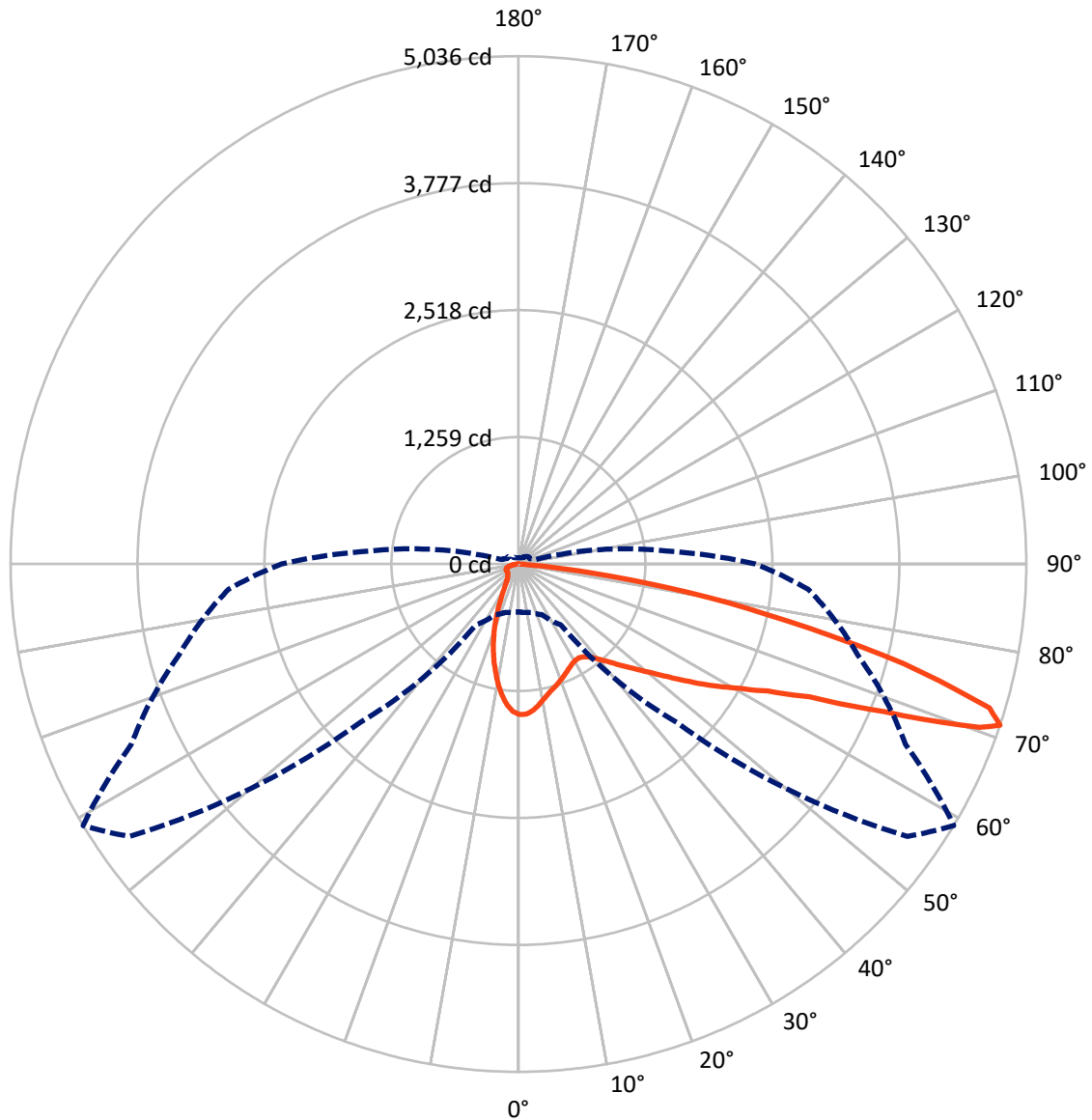


Based on 10 foot mounting height. Maximum calculated value = 14.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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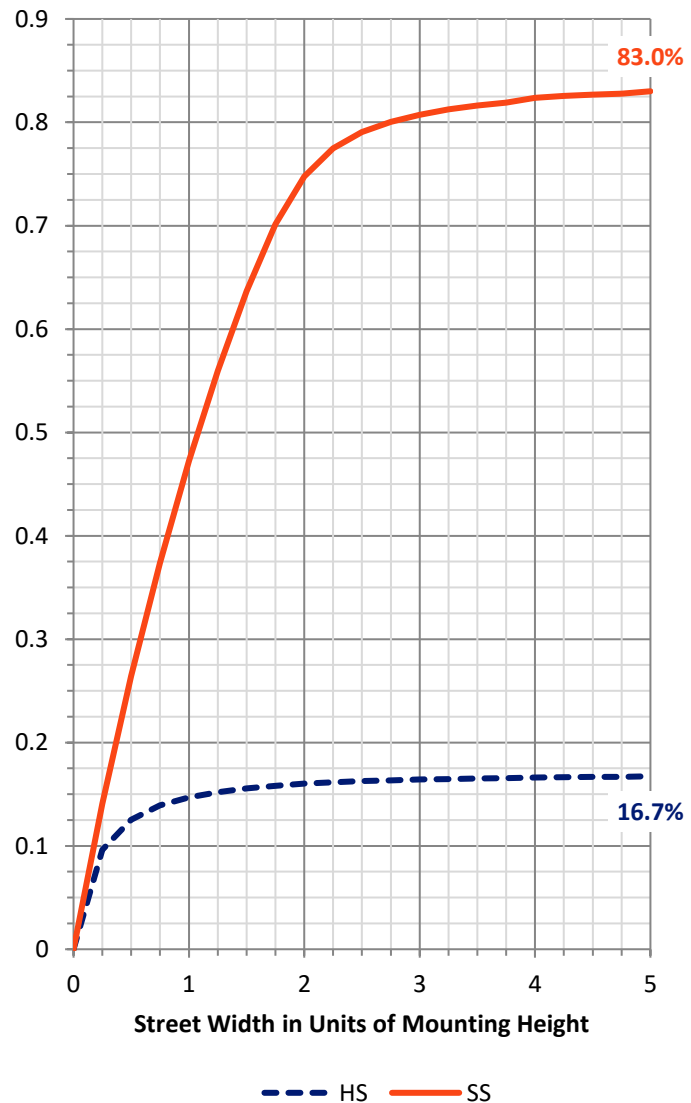
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 883.1 | 0.0 | 883.1 |
| | % Fixture | 17.0 | 0.0 | 17.0 |
| Street Side | Lumens | 4319.9 | 0.0 | 4319.9 |
| | % Fixture | 83.0 | 0.0 | 83.0 |
| Total | Lumens | 5203.0 | 0.0 | 5203.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 129.0 | 2.5 |
| 10°-20° | 289.8 | 5.6 |
| 20°-30° | 368.3 | 7.1 |
| 30°-40° | 470.8 | 9.0 |
| 40°-50° | 653.3 | 12.6 |
| 50°-60° | 967.3 | 18.6 |
| 60°-70° | 1307.4 | 25.1 |
| 70°-80° | 927.1 | 17.8 |
| 80°-90° | 90.1 | 1.7 |
| 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° | 5203.0 | 100.0 |
| 0°-180° | 5203.0 | 100.0 |



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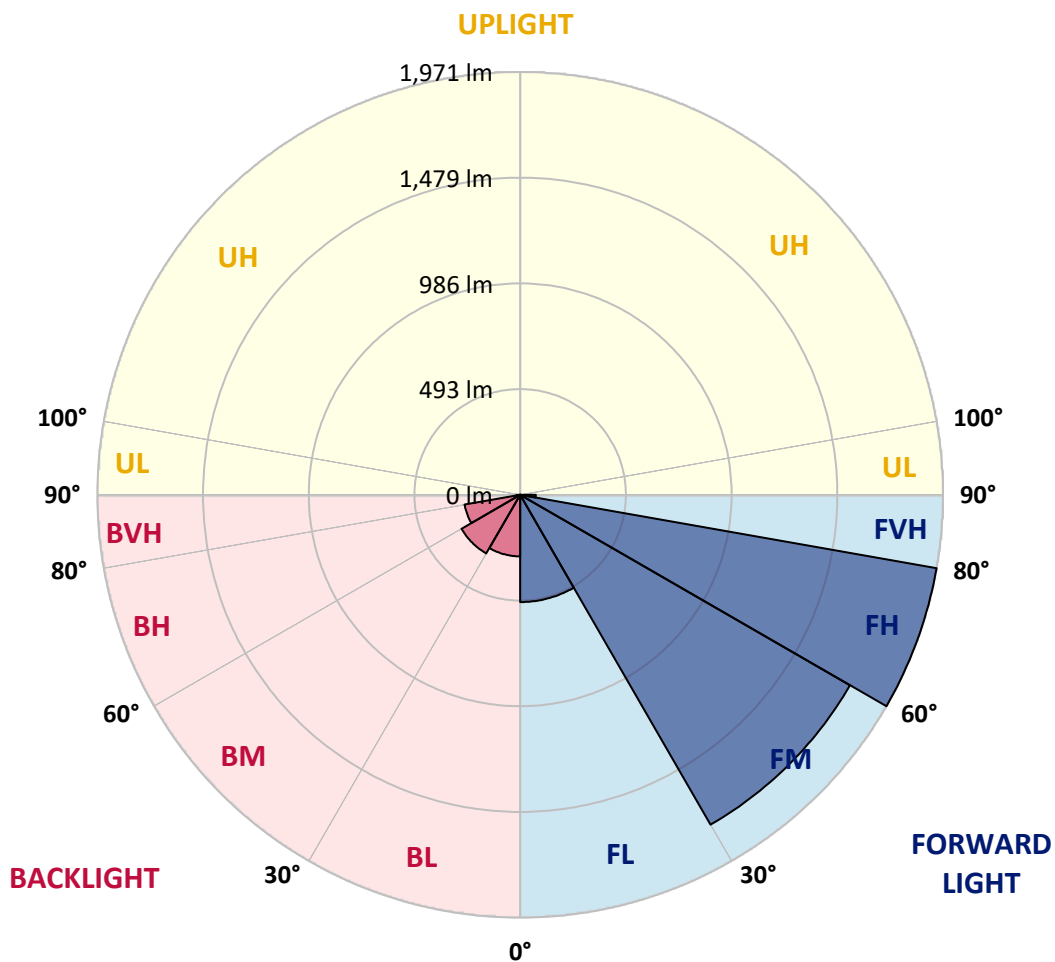
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 500.1 | 9.6 | | | |
| FM | (30°-60°) | 1775.6 | 34.1 | | | |
| FH | (60°-80°) | 1971.4 | 37.9 | | | G2/5000 |
| FVH | (80°-90°) | 72.9 | 1.4 | | | G1/100 |
| BL | (0°-30°) | 286.9 | 5.5 | B1/500 | | |
| BM | (30°-60°) | 315.8 | 6.1 | B1/1000 | | |
| BH | (60°-80°) | 263.2 | 5.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 17.2 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1492.7 | 1492.7 | 1492.7 | 1492.7 | 1492.7 | 1492.7 | 1492.7 | 1492.7 | 1492.7 | 1492.7 | 1492.7 |
| 2.5° | 1479.9 | 1485.2 | 1487.5 | 1491.2 | 1491.2 | 1492.7 | 1491.2 | 1490.5 | 1493.5 | 1490.5 | 1482.2 |
| 5° | 1414.3 | 1416.6 | 1423.4 | 1430.9 | 1438.4 | 1454.3 | 1458.8 | 1461.8 | 1468.6 | 1470.1 | 1461.8 |
| 7.5° | 1325.4 | 1333.7 | 1342.7 | 1352.5 | 1368.3 | 1390.2 | 1409.0 | 1416.6 | 1429.4 | 1436.9 | 1424.9 |
| 10° | 1250.0 | 1254.5 | 1259.0 | 1276.4 | 1301.2 | 1331.4 | 1351.0 | 1365.3 | 1385.7 | 1395.5 | 1384.2 |
| 12.5° | 1174.6 | 1178.4 | 1187.4 | 1210.8 | 1236.4 | 1272.6 | 1308.0 | 1319.3 | 1343.5 | 1363.1 | 1354.0 |
| 15° | 1116.5 | 1116.5 | 1123.3 | 1148.9 | 1176.1 | 1224.3 | 1265.8 | 1283.1 | 1313.3 | 1341.2 | 1329.9 |
| 17.5° | 1065.3 | 1067.5 | 1072.1 | 1088.6 | 1126.3 | 1176.8 | 1229.6 | 1251.5 | 1289.2 | 1325.4 | 1310.3 |
| 20° | 1036.6 | 1035.1 | 1038.1 | 1046.4 | 1076.6 | 1130.1 | 1193.4 | 1219.1 | 1265.8 | 1315.6 | 1291.4 |
| 22.5° | 1026.8 | 1025.3 | 1023.0 | 1022.3 | 1041.9 | 1087.1 | 1155.0 | 1186.6 | 1244.7 | 1310.3 | 1274.1 |
| 25° | 1034.4 | 1034.4 | 1027.6 | 1014.8 | 1023.8 | 1054.7 | 1120.3 | 1154.2 | 1221.3 | 1306.5 | 1258.3 |
| 27.5° | 1054.7 | 1054.7 | 1044.9 | 1028.3 | 1024.6 | 1038.1 | 1090.1 | 1126.3 | 1201.7 | 1308.8 | 1245.4 |
| 30° | 1082.6 | 1081.9 | 1072.1 | 1057.7 | 1046.4 | 1041.9 | 1075.8 | 1109.0 | 1188.2 | 1318.6 | 1239.4 |
| 32.5° | 1114.3 | 1112.8 | 1108.2 | 1098.4 | 1084.9 | 1065.3 | 1077.3 | 1106.7 | 1185.1 | 1335.9 | 1240.2 |
| 35° | 1152.0 | 1149.7 | 1152.0 | 1146.7 | 1133.9 | 1112.8 | 1105.2 | 1128.6 | 1200.2 | 1368.3 | 1253.0 |
| 37.5° | 1185.1 | 1183.6 | 1194.9 | 1198.0 | 1194.9 | 1167.0 | 1157.2 | 1172.3 | 1235.6 | 1419.6 | 1279.4 |
| 40° | 1213.0 | 1214.5 | 1234.9 | 1256.8 | 1261.3 | 1237.2 | 1230.4 | 1243.2 | 1292.9 | 1482.2 | 1326.9 |
| 42.5° | 1243.9 | 1248.5 | 1278.6 | 1317.8 | 1332.9 | 1317.1 | 1320.8 | 1329.9 | 1365.3 | 1567.4 | 1395.5 |
| 45° | 1274.1 | 1283.9 | 1325.4 | 1375.9 | 1414.3 | 1414.3 | 1427.1 | 1436.2 | 1458.8 | 1674.4 | 1495.7 |
| 47.5° | 1326.9 | 1333.7 | 1378.9 | 1440.0 | 1498.8 | 1517.6 | 1553.0 | 1550.0 | 1567.4 | 1792.0 | 1613.4 |
| 50° | 1395.5 | 1406.8 | 1452.8 | 1516.1 | 1590.7 | 1644.3 | 1685.0 | 1691.0 | 1697.8 | 1912.7 | 1752.8 |
| 52.5° | 1490.5 | 1504.0 | 1541.7 | 1600.5 | 1688.7 | 1776.2 | 1862.1 | 1858.4 | 1849.3 | 2043.8 | 1912.7 |
| 55° | 1586.2 | 1600.5 | 1636.0 | 1683.5 | 1787.5 | 1921.7 | 2061.9 | 2056.6 | 2015.2 | 2178.0 | 2060.4 |
| 57.5° | 1683.5 | 1695.5 | 1732.5 | 1773.9 | 1896.8 | 2093.6 | 2273.0 | 2276.8 | 2191.6 | 2327.3 | 2206.7 |
| 60° | 1724.2 | 1742.3 | 1833.5 | 1913.4 | 2067.2 | 2284.3 | 2488.6 | 2498.4 | 2374.8 | 2478.1 | 2368.0 |
| 62.5° | 1540.2 | 1562.1 | 1712.9 | 1928.5 | 2300.9 | 2652.2 | 2769.1 | 2775.1 | 2595.7 | 2644.7 | 2544.4 |
| 65° | 1139.9 | 1139.1 | 1295.2 | 1617.9 | 2254.2 | 3146.0 | 3268.9 | 3173.9 | 2870.1 | 2865.6 | 2777.4 |
| 67.5° | 652.9 | 672.5 | 722.2 | 965.0 | 1717.4 | 3237.3 | 4158.5 | 3910.5 | 3356.4 | 3209.4 | 3088.0 |
| 70° | 526.2 | 521.7 | 536.8 | 601.6 | 936.3 | 2662.0 | 4738.3 | 4851.4 | 4047.0 | 3489.8 | 3017.9 |
| 71° | 474.2 | 481.0 | 496.1 | 554.9 | 738.8 | 2221.0 | 4709.6 | 5036.1 | 4235.4 | 3482.3 | 2884.4 |
| 72.5° | 407.9 | 409.4 | 444.0 | 513.4 | 606.9 | 1566.6 | 4354.5 | 4883.8 | 4433.0 | 3383.5 | 2688.4 |
| 75° | 277.4 | 281.2 | 335.5 | 413.1 | 554.1 | 744.1 | 3115.9 | 3950.5 | 4034.9 | 3161.9 | 2220.2 |
| 77.5° | 159.1 | 162.1 | 201.3 | 302.3 | 471.9 | 524.7 | 1912.7 | 2729.9 | 2901.0 | 2312.2 | 1190.4 |
| 80° | 82.2 | 85.9 | 111.6 | 190.7 | 360.4 | 424.4 | 1096.9 | 1716.6 | 1650.3 | 799.1 | 275.9 |
| 82.5° | 21.9 | 24.9 | 32.4 | 68.6 | 174.2 | 276.7 | 486.3 | 710.2 | 507.4 | 165.9 | 100.3 |
| 85° | 0.0 | 0.0 | 0.0 | 0.8 | 1.5 | 38.4 | 102.5 | 127.4 | 70.9 | 32.4 | 27.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 1.5 | 1.5 | 1.5 | 1.5 | 2.3 | 3.0 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1492.7 | 1492.7 | 1492.7 | 1492.7 | 1492.7 | 1492.7 | 1492.7 | 1492.7 | 1492.7 | 1492.7 | 1492.7 |
| 2.5° | 1480.7 | 1480.7 | 1476.1 | 1469.4 | 1461.8 | 1444.5 | 1447.5 | 1433.9 | 1435.4 | 1433.9 | 1433.9 |
| 5° | 1455.0 | 1450.5 | 1439.2 | 1418.1 | 1394.7 | 1363.8 | 1359.3 | 1334.4 | 1320.1 | 1315.6 | 1320.8 |
| 7.5° | 1419.6 | 1406.8 | 1378.1 | 1341.2 | 1296.7 | 1256.8 | 1219.8 | 1186.6 | 1161.8 | 1151.2 | 1146.7 |
| 10° | 1372.9 | 1357.0 | 1310.3 | 1245.4 | 1184.4 | 1121.8 | 1063.8 | 1026.1 | 976.3 | 961.2 | 956.7 |
| 12.5° | 1334.4 | 1307.3 | 1237.2 | 1146.7 | 1051.7 | 968.8 | 890.4 | 811.2 | 763.7 | 729.8 | 724.5 |
| 15° | 1301.2 | 1262.8 | 1162.5 | 1045.7 | 927.3 | 812.7 | 706.4 | 600.1 | 533.0 | 504.4 | 484.0 |
| 17.5° | 1271.8 | 1222.1 | 1087.9 | 936.3 | 790.1 | 638.6 | 508.9 | 407.1 | 364.9 | 343.0 | 343.8 |
| 20° | 1241.7 | 1178.4 | 1010.2 | 827.0 | 654.4 | 486.3 | 359.6 | 312.1 | 291.0 | 286.5 | 284.2 |
| 22.5° | 1213.0 | 1128.6 | 928.1 | 719.2 | 515.7 | 357.4 | 289.5 | 266.1 | 260.9 | 260.9 | 260.9 |
| 25° | 1180.6 | 1078.1 | 845.1 | 609.2 | 390.5 | 282.0 | 248.8 | 240.5 | 242.0 | 245.0 | 245.8 |
| 27.5° | 1154.2 | 1034.4 | 763.0 | 481.7 | 303.1 | 239.7 | 222.4 | 220.9 | 226.9 | 233.7 | 233.7 |
| 30° | 1130.9 | 994.4 | 674.0 | 376.2 | 241.2 | 210.3 | 204.3 | 206.6 | 212.6 | 218.6 | 220.9 |
| 32.5° | 1115.0 | 958.2 | 594.1 | 292.5 | 205.8 | 190.0 | 188.5 | 191.5 | 197.5 | 200.5 | 202.8 |
| 35° | 1108.2 | 931.8 | 508.1 | 236.0 | 183.2 | 174.9 | 174.2 | 176.4 | 179.4 | 180.2 | 179.4 |
| 37.5° | 1115.8 | 913.7 | 419.9 | 199.8 | 168.9 | 164.4 | 163.6 | 163.6 | 163.6 | 164.4 | 163.6 |
| 40° | 1137.6 | 906.9 | 340.8 | 176.4 | 159.8 | 156.1 | 153.8 | 151.5 | 150.0 | 150.0 | 149.3 |
| 42.5° | 1183.6 | 917.5 | 273.7 | 162.8 | 153.0 | 148.5 | 144.0 | 141.0 | 138.7 | 138.0 | 138.0 |
| 45° | 1257.5 | 946.9 | 227.7 | 153.8 | 147.0 | 140.2 | 134.9 | 131.9 | 129.7 | 130.4 | 129.7 |
| 47.5° | 1359.3 | 995.9 | 201.3 | 147.8 | 141.0 | 131.9 | 126.7 | 123.6 | 122.9 | 125.1 | 125.9 |
| 50° | 1474.6 | 1065.3 | 185.5 | 143.2 | 136.5 | 125.1 | 119.1 | 116.9 | 117.6 | 122.1 | 122.9 |
| 52.5° | 1610.3 | 1155.0 | 178.7 | 140.2 | 132.7 | 119.1 | 113.8 | 111.6 | 113.1 | 118.4 | 119.1 |
| 55° | 1756.6 | 1257.5 | 188.5 | 141.7 | 128.9 | 115.3 | 109.3 | 106.3 | 108.6 | 113.1 | 113.8 |
| 57.5° | 1905.1 | 1384.2 | 221.6 | 142.5 | 124.4 | 112.3 | 104.8 | 100.3 | 101.8 | 105.5 | 106.3 |
| 60° | 2055.1 | 1510.1 | 278.9 | 143.2 | 122.9 | 109.3 | 101.0 | 94.2 | 95.0 | 97.3 | 98.0 |
| 62.5° | 2231.6 | 1669.9 | 354.3 | 146.3 | 124.4 | 107.1 | 94.2 | 86.7 | 86.7 | 88.2 | 88.2 |
| 65° | 2499.2 | 1908.1 | 404.1 | 144.7 | 128.2 | 104.8 | 87.5 | 79.9 | 79.2 | 79.9 | 79.9 |
| 67.5° | 2691.4 | 1939.8 | 282.0 | 136.5 | 130.4 | 105.5 | 83.7 | 73.9 | 72.4 | 71.6 | 71.6 |
| 70° | 2487.9 | 1632.2 | 186.2 | 128.9 | 126.7 | 107.1 | 80.7 | 70.1 | 67.1 | 64.8 | 64.1 |
| 71° | 2346.9 | 1470.9 | 172.6 | 125.9 | 123.6 | 105.5 | 79.2 | 67.9 | 64.8 | 63.3 | 62.6 |
| 72.5° | 2138.1 | 1312.5 | 159.1 | 121.4 | 116.9 | 102.5 | 76.9 | 65.6 | 61.8 | 59.6 | 58.8 |
| 75° | 1689.5 | 1006.5 | 139.5 | 111.6 | 101.0 | 84.4 | 70.9 | 61.1 | 57.3 | 54.3 | 53.5 |
| 77.5° | 763.7 | 400.3 | 107.1 | 96.5 | 82.2 | 67.1 | 61.8 | 56.5 | 52.0 | 49.8 | 49.0 |
| 80° | 213.4 | 152.3 | 78.4 | 76.1 | 61.8 | 52.0 | 49.8 | 48.2 | 46.7 | 43.7 | 43.7 |
| 82.5° | 98.8 | 89.0 | 55.8 | 53.5 | 42.2 | 36.9 | 39.2 | 40.0 | 40.0 | 36.9 | 36.2 |
| 85° | 27.1 | 29.4 | 25.6 | 28.6 | 27.1 | 24.9 | 28.6 | 30.9 | 32.4 | 29.4 | 27.1 |
| 87.5° | 2.3 | 5.3 | 6.8 | 11.3 | 13.6 | 14.3 | 18.1 | 21.9 | 22.6 | 18.1 | 18.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)