

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: STREETWORKS

Report Number: P650189

Luminaire Tested: **GLAN-SA1B-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650189  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1B-835-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3814 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

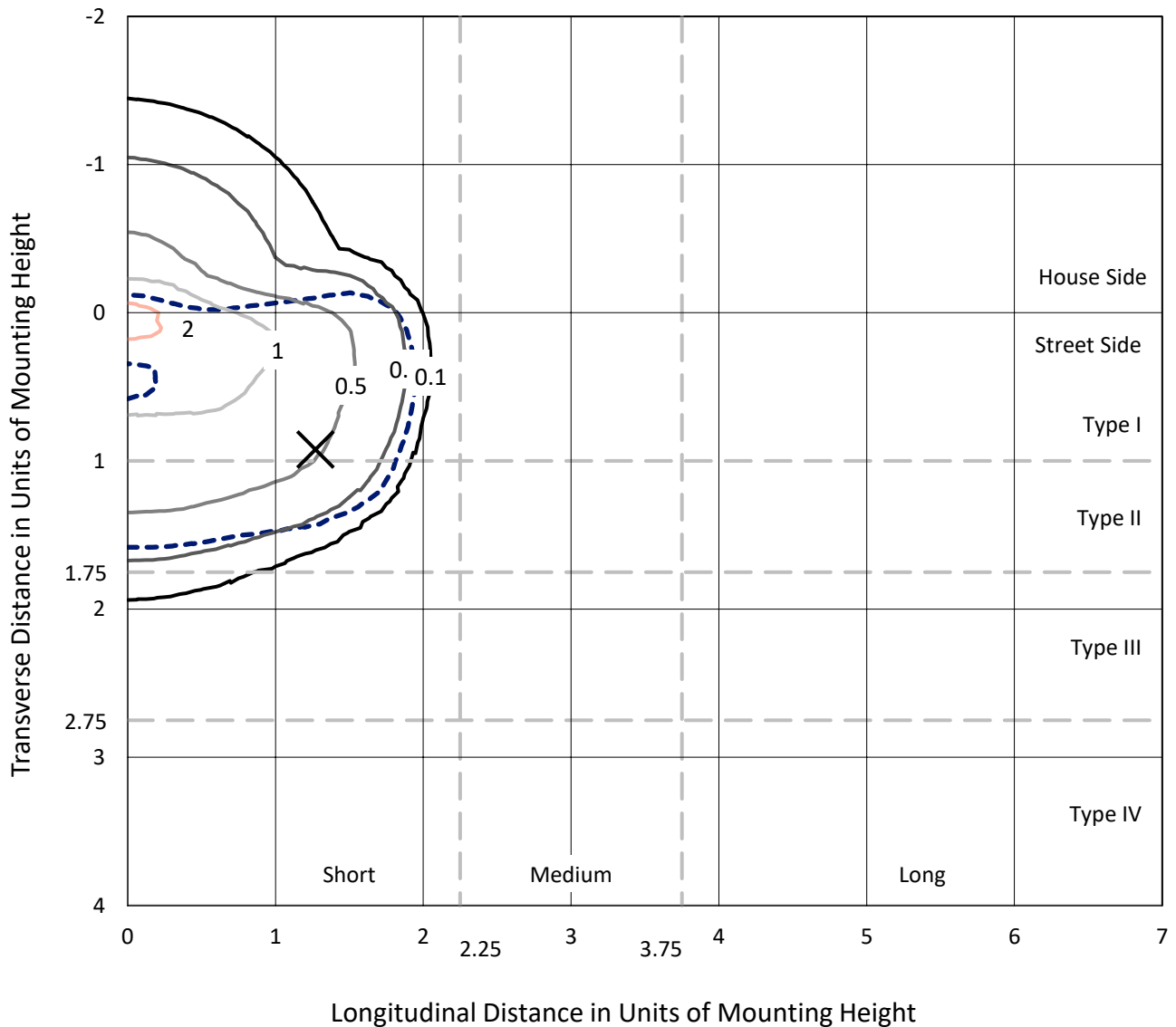
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

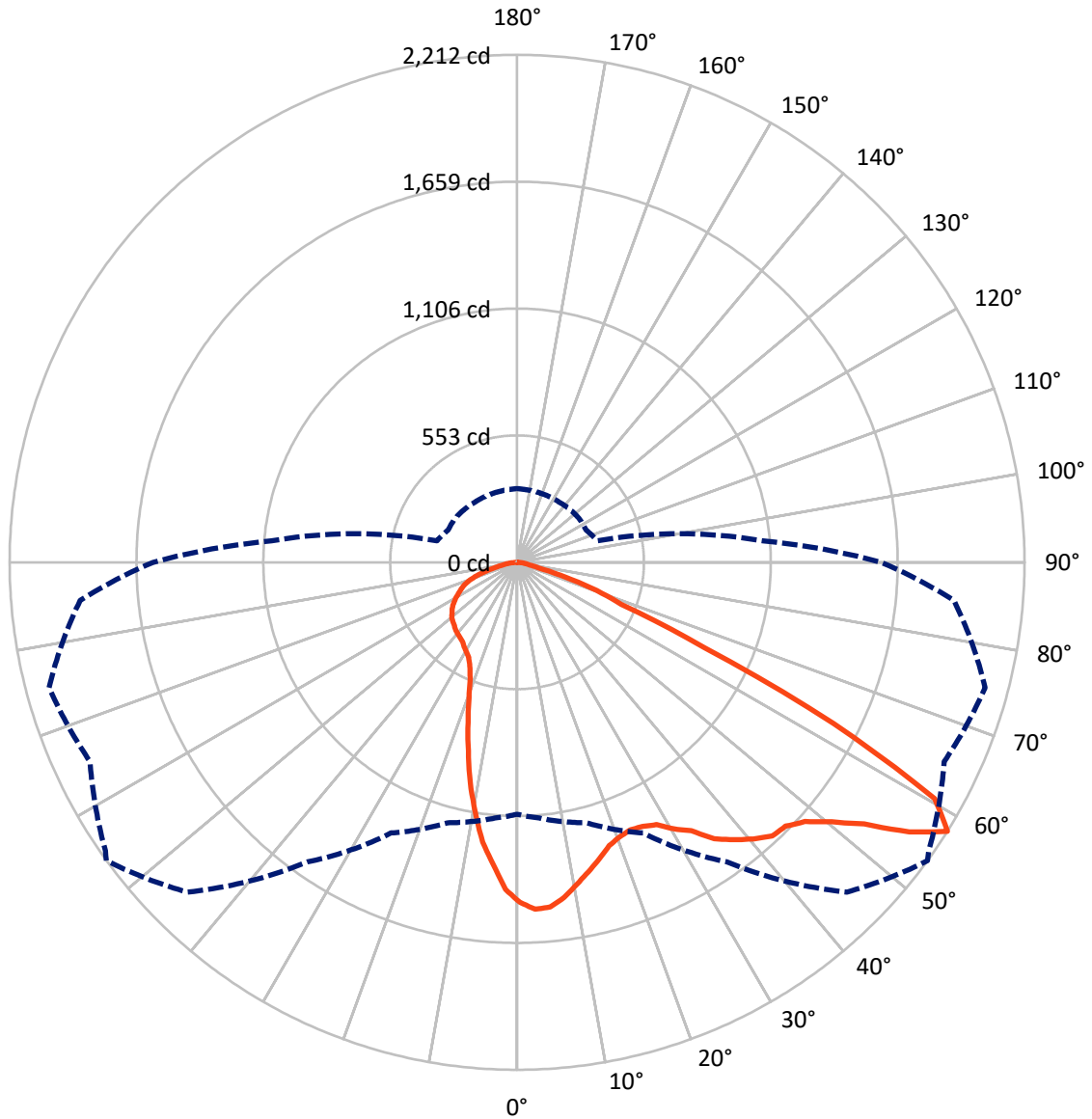
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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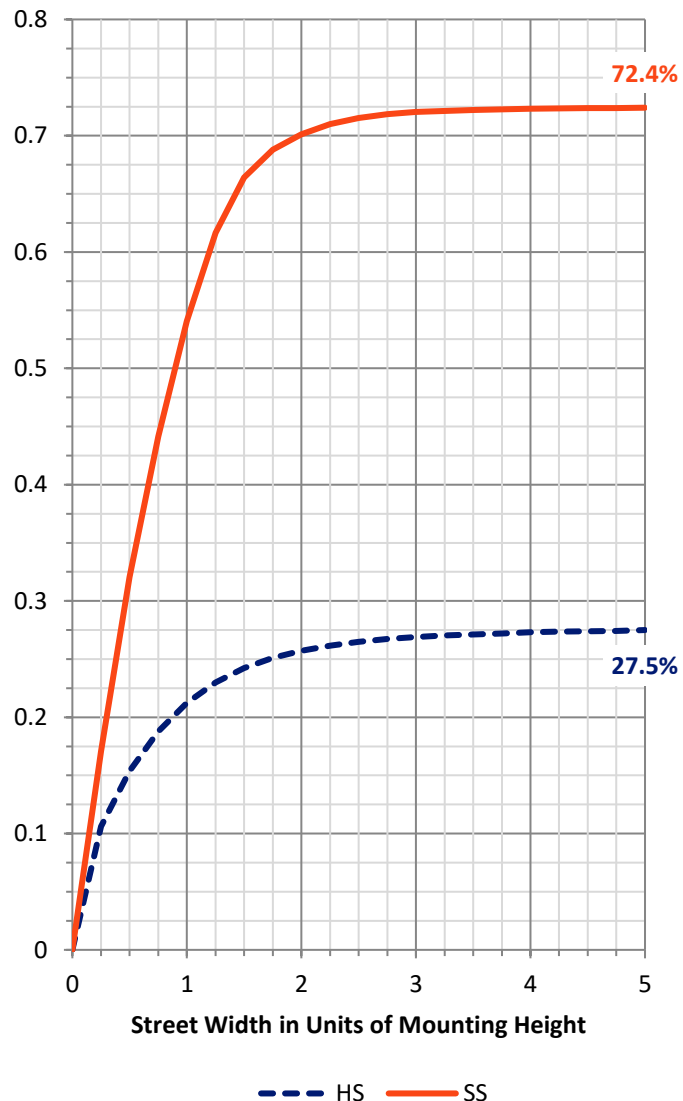
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1055.2   | 0.0    | 1055.2 |
|                    | % Fixture | 27.7     | 0.0    | 27.7   |
| <b>Street Side</b> | Lumens    | 2758.8   | 0.0    | 2758.8 |
|                    | % Fixture | 72.3     | 0.0    | 72.3   |
| <b>Total</b>       | Lumens    | 3814.0   | 0.0    | 3814.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 127.8  | 3.4       |
| 10°-20°   | 296.0  | 7.8       |
| 20°-30°   | 415.9  | 10.9      |
| 30°-40°   | 581.4  | 15.2      |
| 40°-50°   | 787.2  | 20.6      |
| 50°-60°   | 958.8  | 25.1      |
| 60°-70°   | 499.4  | 13.1      |
| 70°-80°   | 128.0  | 3.4       |
| 80°-90°   | 19.5   | 0.5       |
| 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°    | 3814.0 | 100.0     |
| 0°-180°   | 3814.0 | 100.0     |

**Coefficient of Utilization**

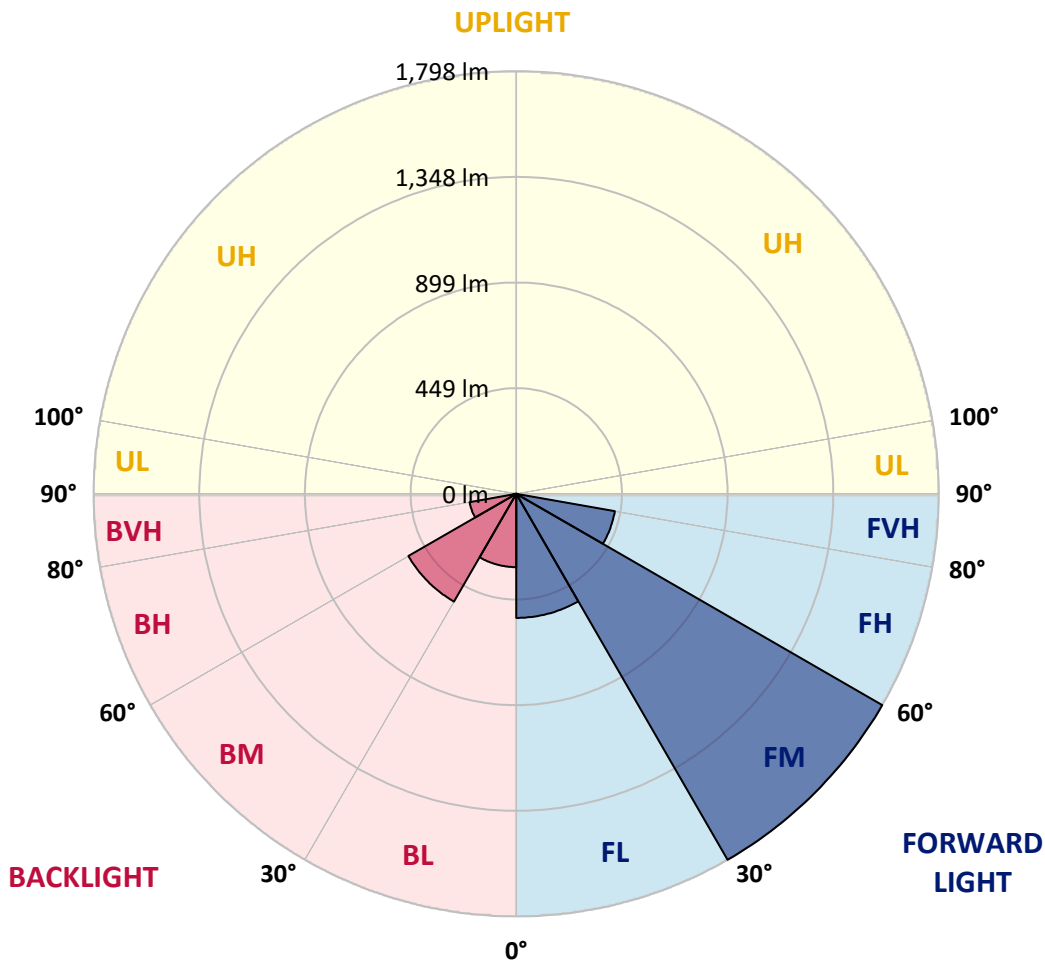


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 527.9  | 13.8      |                         |      |        |
| FM (30°-60°)   | 1797.8 | 47.1      |                         |      |        |
| FH (60°-80°)   | 425.7  | 11.2      |                         |      | G0/660 |
| FVH (80°-90°)  | 7.4    | 0.2       |                         |      | G0/10  |
| BL (0°-30°)    | 311.9  | 8.2       | B1/500                  |      |        |
| BM (30°-60°)   | 529.6  | 13.9      | B1/1000                 |      |        |
| BH (60°-80°)   | 201.6  | 5.3       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 12.1   | 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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 54°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1482.5 | 1482.5 | 1482.5 | 1482.5 | 1482.5 | 1482.5 | 1482.5 | 1482.5 | 1482.5 | 1482.5 | 1482.5 |
| 2.5°  | 1524.6 | 1518.7 | 1519.7 | 1527.6 | 1517.8 | 1513.9 | 1513.9 | 1494.7 | 1496.2 | 1482.9 | 1479.5 |
| 5°    | 1489.3 | 1475.6 | 1484.9 | 1496.7 | 1498.7 | 1502.6 | 1508.9 | 1504.0 | 1490.3 | 1476.1 | 1453.0 |
| 7.5°  | 1397.2 | 1409.4 | 1412.8 | 1421.1 | 1438.8 | 1455.0 | 1475.1 | 1461.4 | 1460.9 | 1446.7 | 1433.0 |
| 10°   | 1316.3 | 1308.9 | 1327.6 | 1339.8 | 1369.2 | 1396.2 | 1427.1 | 1425.6 | 1433.0 | 1416.8 | 1393.3 |
| 12.5° | 1235.9 | 1230.0 | 1238.8 | 1266.7 | 1307.9 | 1347.2 | 1384.0 | 1370.2 | 1409.4 | 1406.5 | 1356.0 |
| 15°   | 1150.5 | 1155.0 | 1167.8 | 1193.7 | 1247.6 | 1294.7 | 1341.3 | 1341.7 | 1376.6 | 1388.3 | 1320.7 |
| 17.5° | 1090.8 | 1085.9 | 1102.1 | 1140.8 | 1188.8 | 1245.2 | 1298.1 | 1308.9 | 1362.3 | 1369.2 | 1309.9 |
| 20°   | 1046.2 | 1053.0 | 1074.1 | 1093.7 | 1149.1 | 1217.3 | 1277.1 | 1281.0 | 1359.4 | 1378.0 | 1292.7 |
| 22.5° | 1035.4 | 1031.4 | 1038.3 | 1070.2 | 1115.8 | 1189.8 | 1265.8 | 1280.5 | 1358.9 | 1375.1 | 1260.4 |
| 25°   | 1024.1 | 1036.8 | 1036.4 | 1068.2 | 1101.5 | 1167.8 | 1275.1 | 1291.2 | 1384.9 | 1390.3 | 1264.8 |
| 27.5° | 1049.6 | 1048.1 | 1061.8 | 1064.3 | 1105.4 | 1173.6 | 1294.7 | 1307.0 | 1428.0 | 1423.7 | 1268.2 |
| 30°   | 1075.1 | 1067.7 | 1076.1 | 1105.0 | 1124.1 | 1207.5 | 1348.6 | 1347.6 | 1483.9 | 1481.0 | 1279.0 |
| 32.5° | 1106.5 | 1103.0 | 1108.4 | 1133.9 | 1166.3 | 1252.6 | 1394.2 | 1423.1 | 1540.8 | 1559.4 | 1316.3 |
| 35°   | 1112.3 | 1126.6 | 1139.3 | 1173.6 | 1219.7 | 1325.6 | 1480.0 | 1504.0 | 1606.5 | 1664.8 | 1387.3 |
| 37.5° | 1149.6 | 1155.0 | 1184.9 | 1245.7 | 1287.8 | 1423.1 | 1534.4 | 1549.6 | 1666.3 | 1732.5 | 1462.3 |
| 40°   | 1189.3 | 1195.6 | 1240.7 | 1304.5 | 1362.3 | 1486.8 | 1585.4 | 1590.3 | 1685.4 | 1784.5 | 1511.3 |
| 42.5° | 1243.2 | 1249.1 | 1293.8 | 1373.6 | 1451.1 | 1541.3 | 1630.5 | 1635.9 | 1683.9 | 1844.3 | 1589.3 |
| 45°   | 1299.1 | 1313.3 | 1365.8 | 1456.5 | 1526.1 | 1605.0 | 1640.8 | 1662.9 | 1697.7 | 1897.7 | 1652.6 |
| 47.5° | 1377.5 | 1390.8 | 1433.9 | 1522.6 | 1604.1 | 1660.9 | 1688.4 | 1709.9 | 1730.5 | 1944.3 | 1693.2 |
| 50°   | 1460.9 | 1463.3 | 1515.8 | 1596.2 | 1656.0 | 1724.2 | 1777.1 | 1784.5 | 1773.7 | 1998.2 | 1762.4 |
| 52.5° | 1522.2 | 1530.0 | 1570.7 | 1649.2 | 1738.3 | 1822.2 | 1894.7 | 1902.6 | 1881.5 | 2018.3 | 1785.9 |
| 55°   | 1420.7 | 1416.3 | 1482.5 | 1586.9 | 1793.8 | 1968.3 | 2073.7 | 2079.6 | 1959.9 | 2080.5 | 1862.8 |
| 57.5° | 1098.1 | 1119.2 | 1175.6 | 1301.6 | 1593.7 | 2033.0 | 2211.9 | 2190.8 | 2054.0 | 2111.9 | 1911.9 |
| 60°   | 798.1  | 793.2  | 830.9  | 915.2  | 1201.0 | 1752.1 | 2091.3 | 2112.9 | 1977.1 | 1903.6 | 1576.6 |
| 62.5° | 650.0  | 643.2  | 646.1  | 649.0  | 775.1  | 1162.8 | 1548.1 | 1547.7 | 1522.6 | 1368.2 | 1063.3 |
| 65°   | 519.7  | 535.8  | 537.3  | 559.4  | 575.5  | 694.7  | 897.1  | 945.2  | 823.1  | 675.0  | 489.8  |
| 67.5° | 391.7  | 385.8  | 405.4  | 483.9  | 514.3  | 501.5  | 489.8  | 495.2  | 352.0  | 253.9  | 239.2  |
| 70°   | 230.9  | 228.5  | 252.0  | 337.3  | 423.5  | 398.5  | 369.1  | 369.7  | 241.7  | 177.4  | 197.6  |
| 72.5° | 126.5  | 126.0  | 130.9  | 171.1  | 240.7  | 250.0  | 221.6  | 228.5  | 144.2  | 143.6  | 154.4  |
| 75°   | 70.6   | 69.1   | 67.7   | 75.5   | 86.8   | 91.7   | 93.6   | 94.6   | 99.0   | 110.8  | 115.2  |
| 77.5° | 26.0   | 25.0   | 25.0   | 28.9   | 36.8   | 46.1   | 58.3   | 59.4   | 70.1   | 80.4   | 84.8   |
| 80°   | 8.8    | 9.8    | 13.2   | 18.2   | 24.5   | 32.8   | 39.7   | 40.7   | 49.5   | 56.4   | 57.9   |
| 82.5° | 5.4    | 5.9    | 8.8    | 12.8   | 17.6   | 23.0   | 29.4   | 29.9   | 36.8   | 41.2   | 43.1   |
| 85°   | 2.4    | 3.0    | 4.9    | 7.8    | 11.3   | 15.2   | 15.7   | 15.7   | 15.2   | 15.7   | 14.7   |
| 87.5° | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.5    | 2.0    | 1.5    | 2.4    | 3.0    | 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°    | 1482.5 | 1482.5 | 1482.5 | 1482.5 | 1482.5 | 1482.5 | 1482.5 | 1482.5 | 1482.5 | 1482.5 | 1482.5 |
| 2.5°  | 1469.2 | 1463.8 | 1447.1 | 1432.4 | 1428.0 | 1408.5 | 1379.5 | 1382.9 | 1361.9 | 1371.7 | 1361.4 |
| 5°    | 1449.1 | 1431.0 | 1388.3 | 1370.2 | 1322.6 | 1301.0 | 1286.4 | 1249.6 | 1232.4 | 1229.0 | 1214.3 |
| 7.5°  | 1397.7 | 1386.4 | 1332.9 | 1283.9 | 1233.4 | 1190.3 | 1134.9 | 1097.1 | 1070.2 | 1062.8 | 1041.2 |
| 10°   | 1356.9 | 1332.0 | 1258.0 | 1183.4 | 1111.4 | 1036.4 | 964.3  | 907.9  | 880.5  | 848.6  | 837.8  |
| 12.5° | 1316.8 | 1279.0 | 1179.0 | 1083.4 | 990.3  | 895.7  | 808.4  | 739.8  | 680.0  | 665.7  | 660.9  |
| 15°   | 1291.8 | 1226.1 | 1108.4 | 993.2  | 860.8  | 737.3  | 650.0  | 604.9  | 568.1  | 553.0  | 563.8  |
| 17.5° | 1258.9 | 1182.4 | 1040.8 | 887.3  | 741.7  | 628.0  | 554.9  | 527.0  | 513.7  | 515.2  | 510.8  |
| 20°   | 1217.7 | 1141.2 | 952.0  | 791.2  | 635.3  | 544.7  | 503.0  | 492.7  | 494.6  | 498.1  | 496.6  |
| 22.5° | 1188.3 | 1091.3 | 887.8  | 693.2  | 549.0  | 498.5  | 481.4  | 474.0  | 480.4  | 483.3  | 480.9  |
| 25°   | 1165.7 | 1048.6 | 809.9  | 606.4  | 499.1  | 472.6  | 464.7  | 464.2  | 474.0  | 477.9  | 475.5  |
| 27.5° | 1145.2 | 1008.9 | 732.4  | 540.3  | 465.7  | 452.5  | 450.1  | 455.9  | 462.3  | 466.2  | 469.6  |
| 30°   | 1132.9 | 978.5  | 659.8  | 484.8  | 449.1  | 442.7  | 438.2  | 443.6  | 447.1  | 451.0  | 449.1  |
| 32.5° | 1144.7 | 956.9  | 589.8  | 453.4  | 435.3  | 428.9  | 434.8  | 431.4  | 437.3  | 440.8  | 435.3  |
| 35°   | 1181.5 | 937.8  | 539.7  | 436.8  | 419.6  | 422.1  | 423.1  | 421.6  | 424.1  | 421.1  | 427.5  |
| 37.5° | 1217.7 | 930.9  | 493.7  | 422.6  | 412.2  | 412.2  | 411.3  | 408.3  | 413.3  | 412.2  | 415.2  |
| 40°   | 1263.8 | 935.4  | 454.5  | 407.4  | 405.4  | 404.4  | 400.5  | 400.0  | 398.1  | 398.5  | 399.6  |
| 42.5° | 1304.0 | 945.2  | 431.9  | 397.6  | 399.0  | 401.0  | 393.7  | 387.7  | 390.2  | 385.3  | 385.3  |
| 45°   | 1346.7 | 954.0  | 411.8  | 390.7  | 389.2  | 388.8  | 382.9  | 379.4  | 377.5  | 378.0  | 382.4  |
| 47.5° | 1413.8 | 966.8  | 396.6  | 381.4  | 382.4  | 375.1  | 373.6  | 369.1  | 371.1  | 374.0  | 374.5  |
| 50°   | 1461.4 | 993.7  | 384.8  | 370.6  | 374.0  | 369.1  | 360.3  | 358.4  | 358.4  | 363.2  | 362.3  |
| 52.5° | 1494.7 | 1031.4 | 373.6  | 358.8  | 360.3  | 356.4  | 353.4  | 349.1  | 346.1  | 353.0  | 356.4  |
| 55°   | 1596.7 | 1094.2 | 370.6  | 349.1  | 348.6  | 344.6  | 339.3  | 334.8  | 333.3  | 334.3  | 341.2  |
| 57.5° | 1586.9 | 1074.6 | 361.3  | 331.9  | 330.9  | 325.5  | 320.1  | 318.7  | 318.1  | 319.2  | 321.1  |
| 60°   | 1288.3 | 793.6  | 322.6  | 312.3  | 310.8  | 309.8  | 304.4  | 298.6  | 295.6  | 298.6  | 296.1  |
| 62.5° | 852.5  | 531.4  | 284.3  | 288.8  | 289.7  | 287.3  | 278.4  | 272.6  | 273.6  | 276.9  | 271.6  |
| 65°   | 418.7  | 312.3  | 257.8  | 269.7  | 270.6  | 263.7  | 255.4  | 248.5  | 245.1  | 248.1  | 245.6  |
| 67.5° | 239.2  | 238.7  | 236.3  | 248.5  | 248.1  | 241.2  | 227.9  | 222.1  | 216.2  | 217.2  | 215.7  |
| 70°   | 203.0  | 206.9  | 211.8  | 219.2  | 218.6  | 210.8  | 195.1  | 190.7  | 182.4  | 181.4  | 178.9  |
| 72.5° | 159.8  | 166.7  | 177.4  | 182.8  | 178.4  | 168.7  | 158.3  | 151.0  | 143.6  | 139.2  | 140.7  |
| 75°   | 118.6  | 128.4  | 134.3  | 137.7  | 130.9  | 125.5  | 117.1  | 108.4  | 99.5   | 95.6   | 94.1   |
| 77.5° | 86.3   | 89.2   | 94.6   | 97.1   | 92.6   | 87.2   | 82.4   | 73.5   | 65.2   | 59.8   | 58.3   |
| 80°   | 60.3   | 62.2   | 66.2   | 66.2   | 66.2   | 63.7   | 57.4   | 48.5   | 43.1   | 38.2   | 37.3   |
| 82.5° | 42.1   | 44.1   | 48.1   | 46.1   | 45.6   | 42.7   | 38.8   | 31.9   | 26.0   | 22.6   | 21.5   |
| 85°   | 14.7   | 16.2   | 19.6   | 23.6   | 25.0   | 24.5   | 22.1   | 17.6   | 13.7   | 11.3   | 10.3   |
| 87.5° | 3.4    | 3.4    | 3.9    | 3.4    | 3.4    | 3.9    | 3.4    | 3.4    | 3.4    | 2.4    | 2.0    |
| 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)