

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: P654145

Luminaire Tested: **GLAN-SA1B-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P654145  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1B-840-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4104.1 lumens  
Efficiency: N/A  
Efficacy: 93.3 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

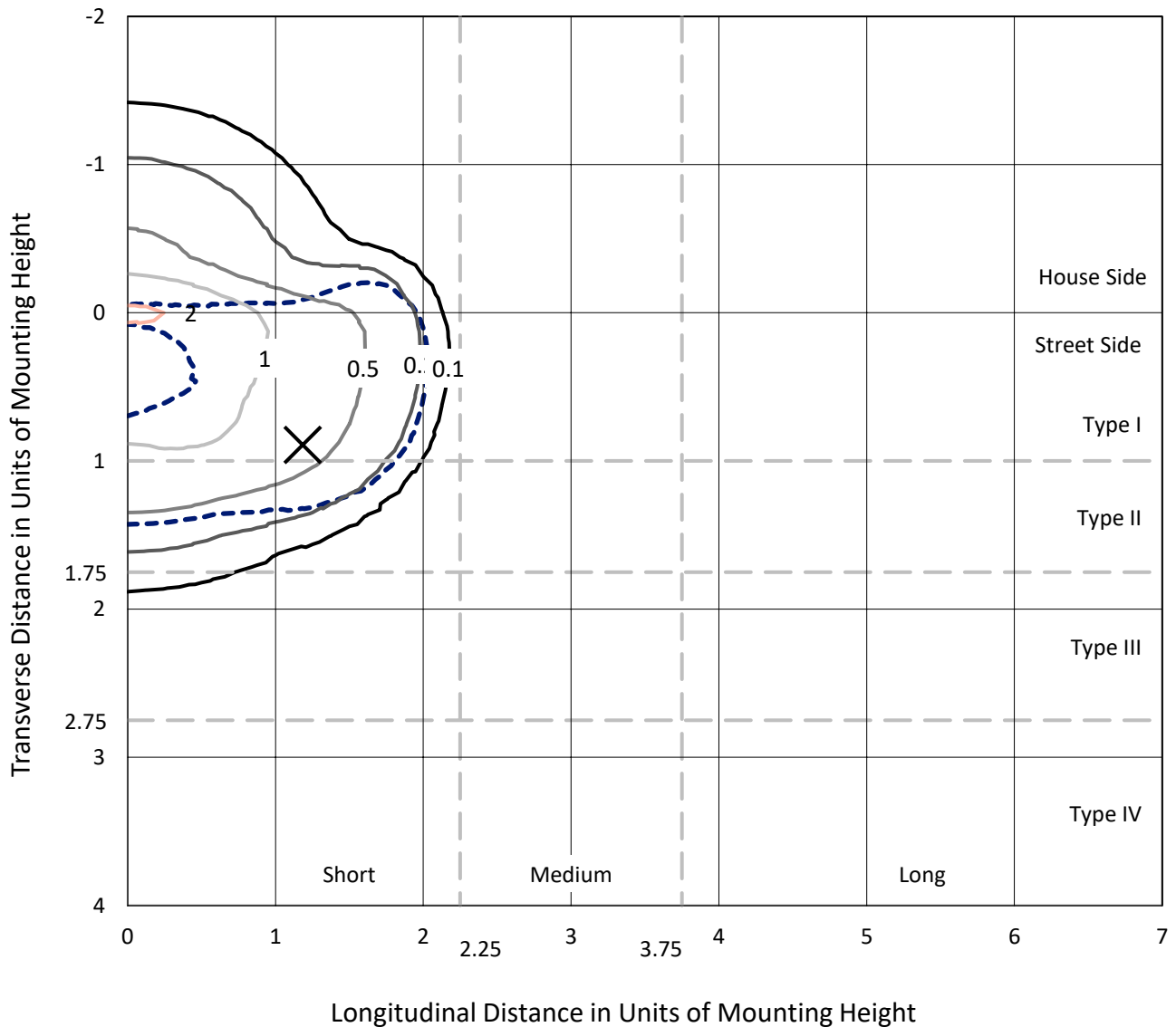
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

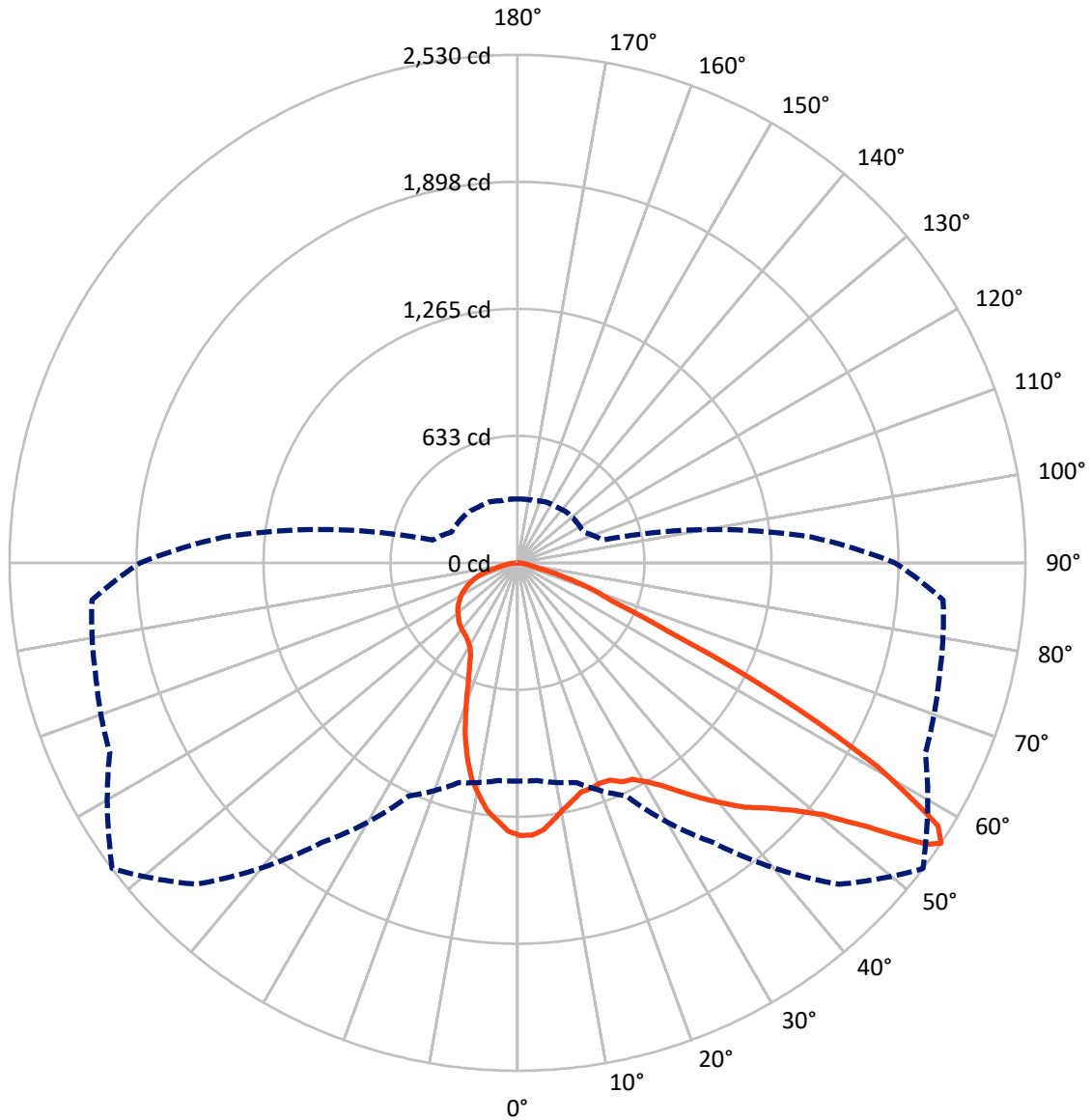
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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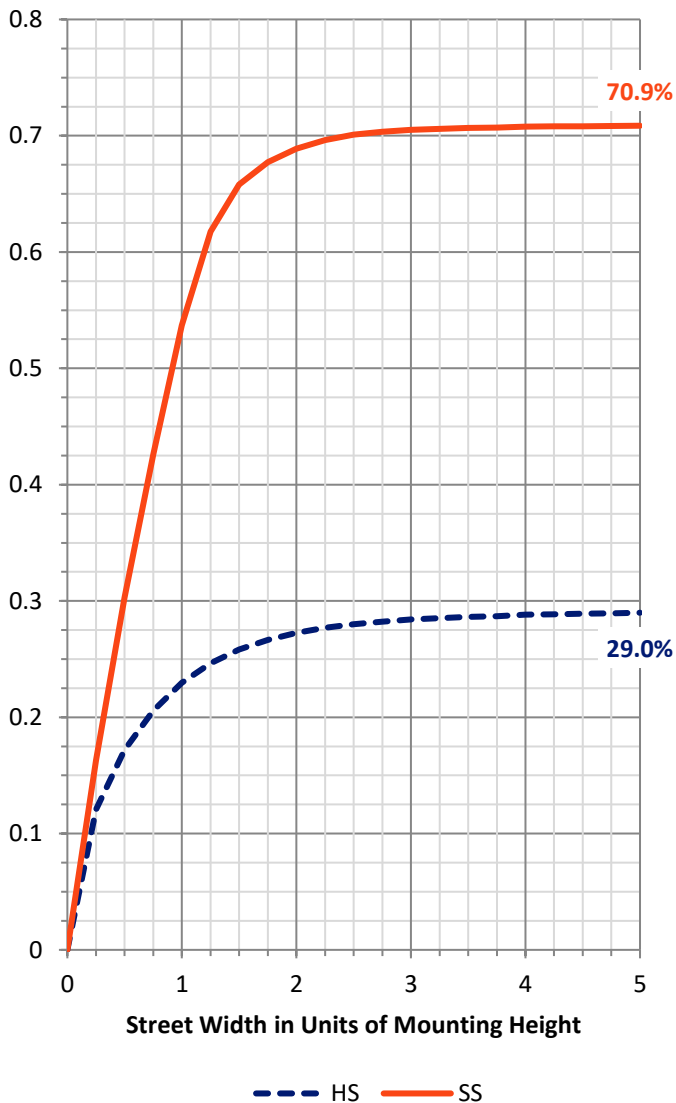
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1197.7   | 0.0    | 1197.7 |
|                    | % Fixture | 29.2     | 0.0    | 29.2   |
| <b>Street Side</b> | Lumens    | 2906.4   | 0.0    | 2906.4 |
|                    | % Fixture | 70.8     | 0.0    | 70.8   |
| <b>Total</b>       | Lumens    | 4104.1   | 0.0    | 4104.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 120.2  | 2.9       |
| 10°-20°   | 300.2  | 7.3       |
| 20°-30°   | 442.7  | 10.8      |
| 30°-40°   | 632.5  | 15.4      |
| 40°-50°   | 870.6  | 21.2      |
| 50°-60°   | 1028.8 | 25.1      |
| 60°-70°   | 548.3  | 13.4      |
| 70°-80°   | 139.1  | 3.4       |
| 80°-90°   | 21.7   | 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°    | 4104.1 | 100.0     |
| 0°-180°   | 4104.1 | 100.0     |

**Coefficient of Utilization**



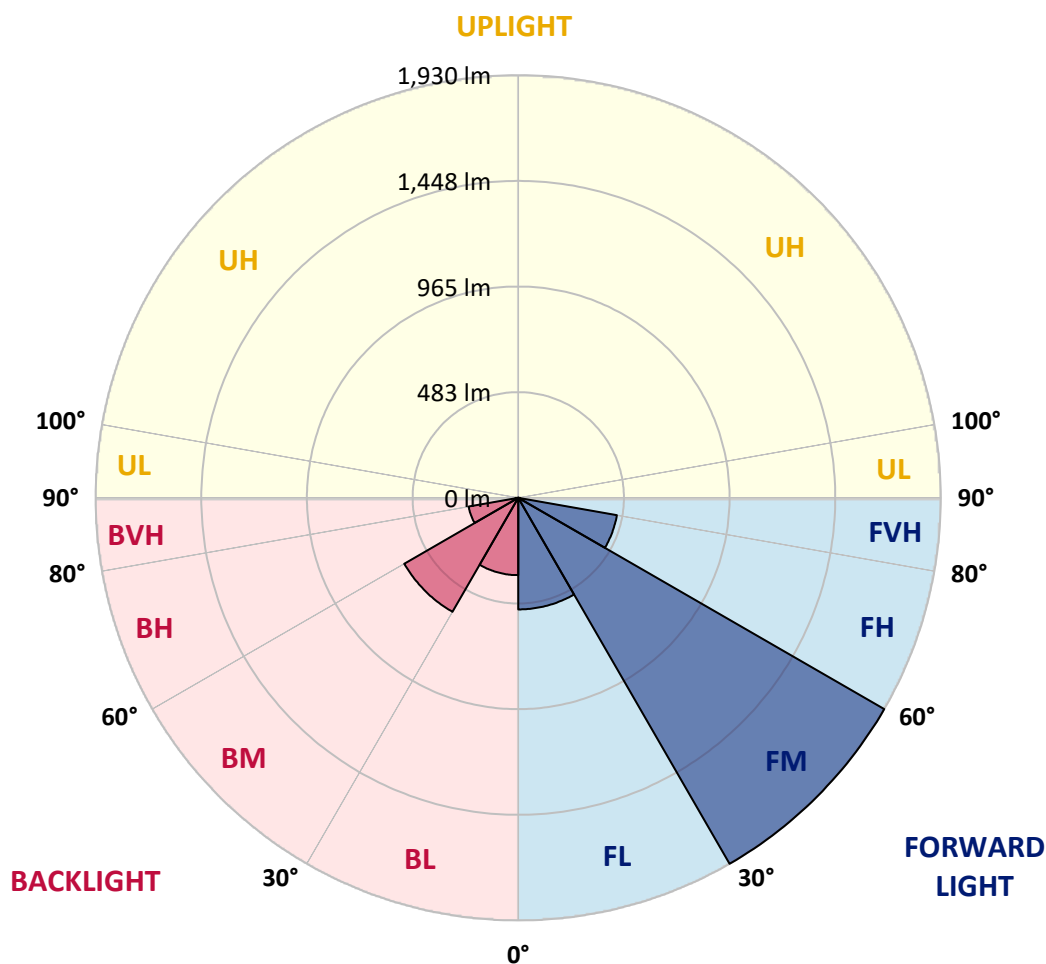
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 509.9  | 12.4      |                         |      |        |
| FM (30°-60°)   | 1930.5 | 47.0      |                         |      |        |
| FH (60°-80°)   | 457.4  | 11.1      |                         |      | G0/660 |
| FVH (80°-90°)  | 8.7    | 0.2       |                         |      | G0/10  |
| BL (0°-30°)    | 353.2  | 8.6       | B1/500                  |      |        |
| BM (30°-60°)   | 601.4  | 14.7      | B1/1000                 |      |        |
| BH (60°-80°)   | 230.0  | 5.6       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 13.0   | 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°    | 53°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1357.8 | 1357.8 | 1357.8 | 1357.8 | 1357.8 | 1357.8 | 1357.8 | 1357.8 | 1357.8 | 1357.8 | 1357.8 |
| 2.5°  | 1341.0 | 1329.4 | 1336.2 | 1333.6 | 1355.2 | 1361.5 | 1358.3 | 1361.0 | 1373.1 | 1367.3 | 1355.2 |
| 5°    | 1253.0 | 1269.3 | 1272.5 | 1280.4 | 1293.0 | 1317.8 | 1337.3 | 1342.5 | 1348.3 | 1375.2 | 1372.5 |
| 7.5°  | 1173.0 | 1184.0 | 1178.2 | 1201.5 | 1228.8 | 1268.8 | 1292.5 | 1296.7 | 1349.9 | 1364.6 | 1375.7 |
| 10°   | 1122.5 | 1111.4 | 1137.7 | 1144.0 | 1175.1 | 1220.9 | 1249.3 | 1266.7 | 1315.2 | 1373.6 | 1380.4 |
| 12.5° | 1075.6 | 1071.9 | 1087.7 | 1105.6 | 1140.4 | 1187.7 | 1216.7 | 1223.6 | 1298.3 | 1359.9 | 1392.0 |
| 15°   | 1040.8 | 1036.6 | 1052.4 | 1065.6 | 1106.2 | 1148.2 | 1185.1 | 1204.6 | 1279.8 | 1352.0 | 1382.0 |
| 17.5° | 1013.5 | 1013.0 | 1021.9 | 1045.6 | 1087.2 | 1122.5 | 1181.9 | 1183.0 | 1270.4 | 1364.1 | 1390.4 |
| 20°   | 1011.9 | 1011.4 | 1013.0 | 1039.3 | 1077.2 | 1120.4 | 1171.9 | 1181.4 | 1270.4 | 1355.7 | 1390.9 |
| 22.5° | 1025.1 | 1016.6 | 1026.1 | 1042.9 | 1070.3 | 1124.0 | 1175.6 | 1196.7 | 1300.9 | 1397.2 | 1414.6 |
| 25°   | 1046.1 | 1048.2 | 1053.5 | 1059.2 | 1075.1 | 1132.5 | 1208.3 | 1225.7 | 1336.8 | 1433.1 | 1447.3 |
| 27.5° | 1084.6 | 1083.5 | 1085.6 | 1088.8 | 1102.5 | 1140.4 | 1221.5 | 1266.2 | 1411.5 | 1496.8 | 1482.6 |
| 30°   | 1140.9 | 1137.2 | 1145.6 | 1156.7 | 1144.0 | 1165.6 | 1265.1 | 1298.8 | 1481.0 | 1561.0 | 1522.0 |
| 32.5° | 1191.9 | 1205.7 | 1221.5 | 1226.2 | 1210.9 | 1215.1 | 1323.1 | 1357.3 | 1538.9 | 1640.0 | 1570.5 |
| 35°   | 1255.6 | 1266.7 | 1287.7 | 1302.5 | 1299.8 | 1287.2 | 1402.0 | 1447.3 | 1622.6 | 1697.9 | 1621.5 |
| 37.5° | 1317.8 | 1331.0 | 1365.7 | 1409.3 | 1385.1 | 1379.4 | 1486.2 | 1523.6 | 1648.4 | 1728.9 | 1659.0 |
| 40°   | 1417.8 | 1417.3 | 1477.3 | 1499.9 | 1521.5 | 1511.5 | 1573.7 | 1586.3 | 1662.1 | 1722.1 | 1660.0 |
| 42.5° | 1535.2 | 1527.8 | 1588.9 | 1624.2 | 1652.1 | 1653.2 | 1664.8 | 1660.6 | 1668.4 | 1687.4 | 1648.9 |
| 45°   | 1646.8 | 1662.7 | 1724.2 | 1787.4 | 1815.3 | 1818.5 | 1741.6 | 1733.7 | 1679.5 | 1677.4 | 1627.8 |
| 47.5° | 1783.2 | 1786.9 | 1837.4 | 1920.6 | 1985.3 | 1963.2 | 1841.1 | 1823.7 | 1727.9 | 1744.2 | 1663.2 |
| 50°   | 1791.1 | 1818.5 | 1863.7 | 1961.6 | 2160.7 | 2154.9 | 1970.1 | 1937.4 | 1805.8 | 1839.0 | 1761.6 |
| 52.5° | 1625.7 | 1619.4 | 1673.2 | 1833.2 | 2147.5 | 2345.5 | 2183.8 | 2105.9 | 1973.2 | 1948.0 | 1921.1 |
| 55°   | 1238.8 | 1253.5 | 1300.9 | 1462.6 | 1864.8 | 2348.1 | 2475.0 | 2411.3 | 2152.3 | 2109.1 | 2078.0 |
| 56°   | 1086.7 | 1088.8 | 1133.5 | 1280.9 | 1701.6 | 2264.4 | 2530.2 | 2478.7 | 2241.3 | 2175.4 | 2128.1 |
| 57.5° | 900.8  | 888.7  | 911.9  | 992.4  | 1436.3 | 2087.5 | 2469.7 | 2520.2 | 2345.5 | 2247.0 | 2181.2 |
| 60°   | 709.1  | 706.5  | 697.0  | 711.8  | 907.7  | 1572.6 | 2055.9 | 2169.6 | 2335.0 | 2179.6 | 2089.0 |
| 62.5° | 579.1  | 566.0  | 584.9  | 605.9  | 630.8  | 975.6  | 1444.7 | 1511.5 | 1853.7 | 1740.0 | 1569.5 |
| 65°   | 449.1  | 442.8  | 466.5  | 534.9  | 549.7  | 619.6  | 822.9  | 874.5  | 1094.6 | 1075.1 | 946.6  |
| 67.5° | 309.1  | 310.1  | 330.6  | 434.9  | 509.6  | 503.3  | 503.8  | 530.7  | 571.2  | 424.4  | 369.6  |
| 70°   | 195.9  | 195.4  | 206.4  | 280.1  | 410.2  | 414.4  | 393.3  | 385.3  | 365.4  | 221.1  | 234.3  |
| 72.5° | 125.8  | 122.1  | 127.9  | 154.7  | 212.2  | 245.3  | 252.7  | 257.4  | 211.7  | 173.8  | 188.5  |
| 75°   | 71.1   | 67.4   | 65.3   | 72.2   | 83.7   | 96.9   | 106.4  | 109.5  | 122.7  | 131.6  | 139.5  |
| 77.5° | 21.6   | 19.5   | 23.7   | 31.6   | 41.6   | 55.8   | 68.0   | 70.1   | 82.7   | 93.2   | 101.1  |
| 80°   | 9.5    | 10.5   | 14.7   | 21.0   | 29.5   | 39.5   | 47.9   | 51.0   | 59.5   | 67.4   | 69.5   |
| 82.5° | 5.8    | 6.3    | 10.0   | 14.2   | 20.5   | 27.9   | 34.2   | 35.2   | 43.7   | 50.0   | 51.6   |
| 85°   | 2.1    | 2.6    | 5.3    | 8.4    | 13.2   | 17.9   | 17.9   | 19.5   | 17.9   | 17.9   | 19.5   |
| 87.5° | 0.0    | 0.0    | 0.5    | 1.1    | 1.1    | 1.6    | 2.1    | 2.1    | 2.6    | 3.2    | 3.7    |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1357.8 | 1357.8 | 1357.8 | 1357.8 | 1357.8 | 1357.8 | 1357.8 | 1357.8 | 1357.8 | 1357.8 | 1357.8 |
| 2.5°  | 1361.5 | 1358.8 | 1354.6 | 1339.4 | 1337.8 | 1333.1 | 1306.7 | 1302.5 | 1306.7 | 1294.0 | 1295.1 |
| 5°    | 1358.8 | 1366.7 | 1335.2 | 1319.9 | 1291.4 | 1270.9 | 1247.2 | 1235.1 | 1213.6 | 1199.9 | 1215.1 |
| 7.5°  | 1370.4 | 1367.3 | 1327.8 | 1294.6 | 1252.0 | 1199.9 | 1158.2 | 1134.6 | 1096.7 | 1086.2 | 1094.1 |
| 10°   | 1366.2 | 1349.4 | 1303.0 | 1259.3 | 1178.8 | 1133.0 | 1065.6 | 1000.3 | 964.5  | 946.1  | 943.4  |
| 12.5° | 1360.4 | 1355.7 | 1278.3 | 1203.0 | 1118.3 | 1021.9 | 927.1  | 865.6  | 807.1  | 781.8  | 785.5  |
| 15°   | 1367.3 | 1327.3 | 1232.0 | 1136.7 | 1024.0 | 897.7  | 795.5  | 716.0  | 675.5  | 659.2  | 659.2  |
| 17.5° | 1364.1 | 1313.6 | 1209.9 | 1062.4 | 919.8  | 770.3  | 658.1  | 610.2  | 593.3  | 593.3  | 598.1  |
| 20°   | 1365.7 | 1322.6 | 1165.1 | 988.2  | 796.6  | 648.7  | 567.0  | 549.7  | 557.0  | 559.7  | 562.3  |
| 22.5° | 1374.6 | 1293.0 | 1121.4 | 906.6  | 682.3  | 554.9  | 514.9  | 515.4  | 528.6  | 542.8  | 540.2  |
| 25°   | 1385.7 | 1281.4 | 1068.2 | 825.5  | 594.9  | 509.1  | 496.4  | 494.9  | 504.9  | 512.3  | 513.3  |
| 27.5° | 1376.2 | 1261.4 | 1014.0 | 724.4  | 523.4  | 478.5  | 475.9  | 477.0  | 480.1  | 494.9  | 490.1  |
| 30°   | 1407.2 | 1267.2 | 946.1  | 639.7  | 483.8  | 468.6  | 465.4  | 463.8  | 468.6  | 472.8  | 469.1  |
| 32.5° | 1445.7 | 1246.7 | 895.6  | 558.1  | 464.3  | 461.2  | 454.9  | 452.8  | 455.4  | 451.2  | 453.3  |
| 35°   | 1462.6 | 1243.0 | 829.7  | 499.6  | 449.1  | 446.5  | 442.8  | 442.3  | 442.8  | 439.1  | 435.9  |
| 37.5° | 1472.0 | 1260.4 | 754.5  | 472.8  | 439.6  | 442.3  | 433.8  | 432.8  | 423.3  | 425.4  | 427.0  |
| 40°   | 1488.3 | 1233.6 | 693.4  | 447.0  | 433.8  | 428.6  | 421.2  | 419.6  | 413.3  | 409.6  | 413.3  |
| 42.5° | 1464.7 | 1225.7 | 633.4  | 435.9  | 425.4  | 419.6  | 414.4  | 405.4  | 403.3  | 400.1  | 398.0  |
| 45°   | 1445.7 | 1180.3 | 579.6  | 422.3  | 415.4  | 412.3  | 402.3  | 392.7  | 384.8  | 388.0  | 383.2  |
| 47.5° | 1459.9 | 1164.5 | 526.5  | 410.7  | 401.7  | 398.0  | 388.0  | 380.6  | 372.7  | 369.0  | 368.0  |
| 50°   | 1516.8 | 1194.1 | 481.7  | 402.3  | 390.1  | 388.0  | 374.8  | 366.4  | 359.0  | 356.4  | 357.5  |
| 52.5° | 1652.6 | 1274.6 | 451.2  | 384.8  | 379.0  | 369.6  | 362.2  | 351.7  | 346.9  | 338.5  | 343.8  |
| 55°   | 1824.8 | 1405.7 | 443.3  | 368.5  | 365.4  | 356.9  | 346.9  | 339.1  | 330.1  | 323.3  | 321.7  |
| 56°   | 1880.1 | 1468.4 | 437.0  | 362.2  | 356.9  | 352.2  | 339.1  | 334.3  | 320.1  | 318.5  | 317.5  |
| 57.5° | 1924.8 | 1523.6 | 438.0  | 350.1  | 344.8  | 340.6  | 332.7  | 321.2  | 311.7  | 305.9  | 308.5  |
| 60°   | 1823.7 | 1426.3 | 418.1  | 331.7  | 330.6  | 322.7  | 311.7  | 306.4  | 294.9  | 288.0  | 286.4  |
| 62.5° | 1355.7 | 968.2  | 339.1  | 308.0  | 307.5  | 299.1  | 286.4  | 280.6  | 278.5  | 269.0  | 269.0  |
| 65°   | 780.8  | 607.0  | 293.3  | 288.5  | 284.3  | 275.8  | 263.2  | 258.5  | 253.2  | 250.1  | 247.4  |
| 67.5° | 333.3  | 314.9  | 266.4  | 265.8  | 261.1  | 250.6  | 238.0  | 230.6  | 223.8  | 217.4  | 220.6  |
| 70°   | 241.6  | 245.3  | 240.6  | 238.0  | 232.2  | 219.0  | 208.0  | 199.0  | 188.5  | 184.3  | 187.5  |
| 72.5° | 191.7  | 199.6  | 206.4  | 206.9  | 200.1  | 184.8  | 172.7  | 160.5  | 149.0  | 143.2  | 145.8  |
| 75°   | 145.3  | 150.5  | 157.4  | 159.0  | 149.0  | 138.4  | 126.9  | 114.2  | 105.3  | 98.5   | 99.5   |
| 77.5° | 104.8  | 103.7  | 110.0  | 109.0  | 104.3  | 96.9   | 86.4   | 74.8   | 64.8   | 58.4   | 59.0   |
| 80°   | 71.6   | 73.2   | 76.9   | 76.4   | 70.6   | 65.9   | 57.9   | 48.4   | 41.0   | 35.8   | 34.7   |
| 82.5° | 50.0   | 52.6   | 55.8   | 53.2   | 48.4   | 43.7   | 37.9   | 31.0   | 25.2   | 21.0   | 20.0   |
| 85°   | 17.9   | 20.5   | 23.7   | 25.2   | 26.8   | 25.8   | 21.6   | 17.4   | 12.6   | 10.5   | 10.0   |
| 87.5° | 3.7    | 4.2    | 4.7    | 4.7    | 4.7    | 4.2    | 3.7    | 3.7    | 3.2    | 1.6    | 1.6    |
| 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)