

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: P526200

Luminaire Tested: **GLAN-SA1A-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526200  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1A-827-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3070 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

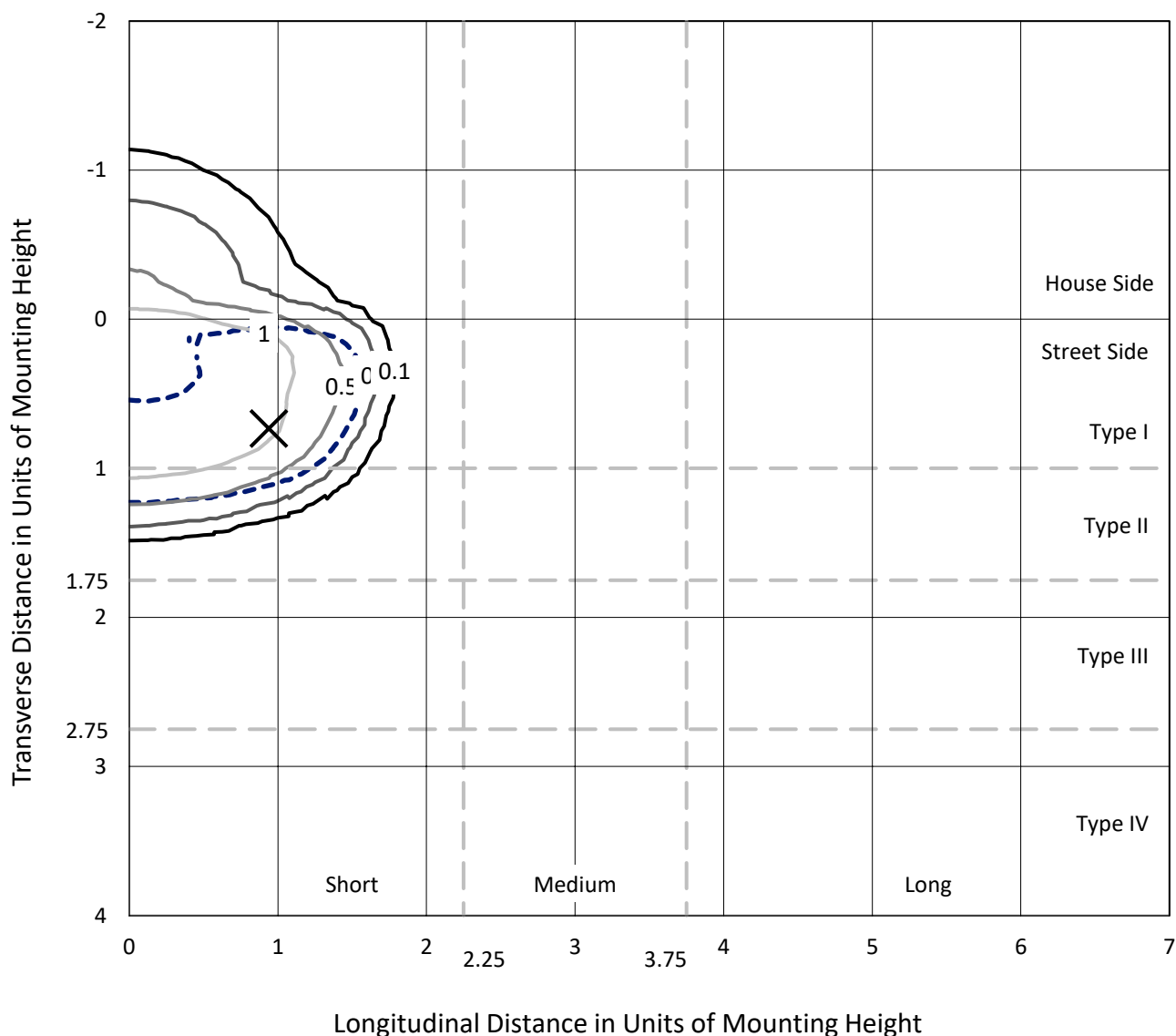
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

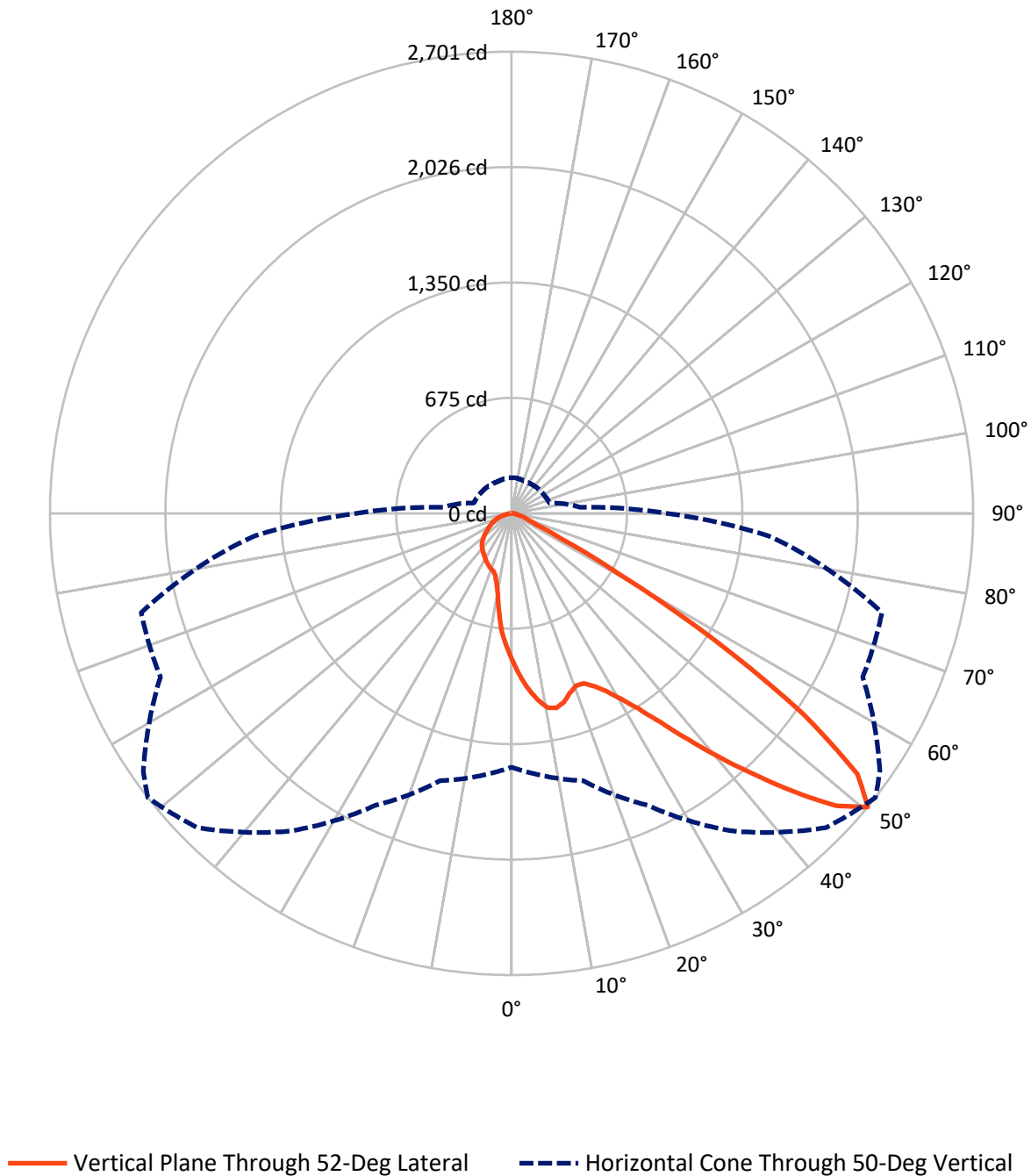
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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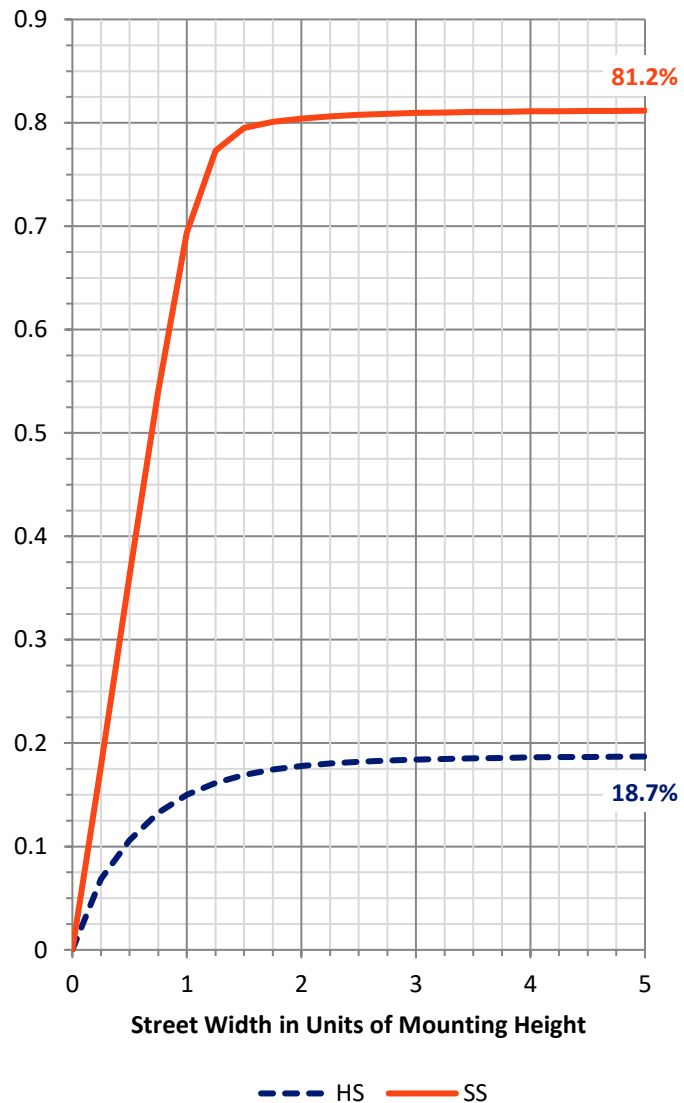
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 577.1    | 0.0    | 577.1  |
|                    | % Fixture | 18.8     | 0.0    | 18.8   |
| <b>Street Side</b> | Lumens    | 2492.9   | 0.0    | 2492.9 |
|                    | % Fixture | 81.2     | 0.0    | 81.2   |
| <b>Total</b>       | Lumens    | 3070.0   | 0.0    | 3070.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 79.8   | 2.6       |
| 10°-20°   | 213.8  | 7.0       |
| 20°-30°   | 360.1  | 11.7      |
| 30°-40°   | 604.3  | 19.7      |
| 40°-50°   | 924.4  | 30.1      |
| 50°-60°   | 674.0  | 22.0      |
| 60°-70°   | 150.0  | 4.9       |
| 70°-80°   | 54.1   | 1.8       |
| 80°-90°   | 9.6    | 0.3       |
| 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°    | 3070.0 | 100.0     |
| 0°-180°   | 3070.0 | 100.0     |

**Coefficient of Utilization**



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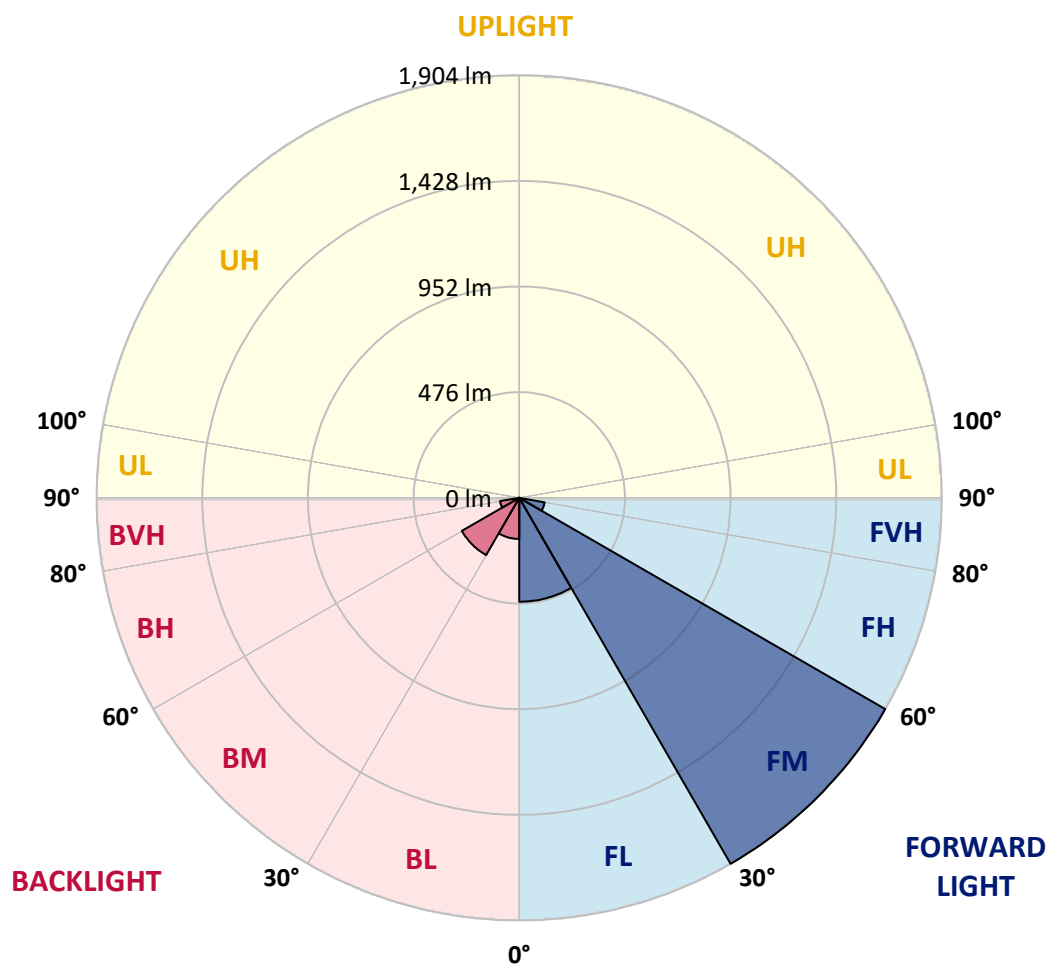
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 468.3  | 15.3      |                         |      |        |
| FM   | (30°-60°)   | 1904.2 | 62.0      |                         |      |        |
| FH   | (60°-80°)   | 116.2  | 3.8       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 4.3    | 0.1       |                         |      | G0/10  |
| BL   | (0°-30°)    | 185.4  | 6.0       | B1/500                  |      |        |
| BM   | (30°-60°)   | 298.5  | 9.7       | B1/1000                 |      |        |
| BH   | (60°-80°)   | 87.9   | 2.9       | B0/110                  |      | G0/110 |
| BVH  | (80°-90°)   | 5.3    | 0.2       |                         |      | G0/10  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B1-U0-G0**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 52°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 865.4  | 865.4  | 865.4  | 865.4  | 865.4  | 865.4  | 865.4  | 865.4  | 865.4  | 865.4  | 865.4  |
| 2.5°  | 1018.9 | 999.3  | 1001.5 | 987.5  | 972.3  | 967.9  | 952.3  | 937.5  | 926.4  | 902.8  | 880.9  |
| 5°    | 1113.6 | 1107.7 | 1098.8 | 1087.7 | 1076.3 | 1048.2 | 1032.2 | 1013.7 | 973.0  | 936.4  | 900.2  |
| 7.5°  | 1127.3 | 1126.2 | 1131.0 | 1131.0 | 1135.1 | 1124.4 | 1101.8 | 1088.8 | 1045.6 | 986.0  | 918.7  |
| 10°   | 1031.1 | 1034.5 | 1057.8 | 1088.1 | 1130.3 | 1159.5 | 1155.8 | 1152.5 | 1105.1 | 1023.7 | 940.5  |
| 12.5° | 954.5  | 947.1  | 960.8  | 986.7  | 1050.0 | 1120.7 | 1168.4 | 1168.8 | 1156.6 | 1084.0 | 956.4  |
| 15°   | 911.3  | 916.4  | 920.1  | 932.3  | 980.1  | 1061.8 | 1145.8 | 1170.6 | 1224.3 | 1126.6 | 981.6  |
| 17.5° | 939.0  | 921.6  | 920.9  | 923.8  | 948.3  | 1009.7 | 1104.0 | 1146.6 | 1261.3 | 1181.3 | 1012.6 |
| 20°   | 975.3  | 974.9  | 964.5  | 960.8  | 960.5  | 1015.2 | 1076.6 | 1134.4 | 1280.9 | 1252.4 | 1044.1 |
| 22.5° | 1038.9 | 1038.9 | 1021.9 | 1013.7 | 996.4  | 1041.1 | 1080.3 | 1119.6 | 1313.4 | 1301.2 | 1059.3 |
| 25°   | 1145.5 | 1128.1 | 1098.8 | 1078.9 | 1068.9 | 1084.8 | 1119.6 | 1154.7 | 1341.9 | 1353.0 | 1090.7 |
| 27.5° | 1243.9 | 1216.5 | 1202.1 | 1167.7 | 1154.3 | 1145.1 | 1176.9 | 1212.4 | 1375.2 | 1433.7 | 1107.7 |
| 30°   | 1355.6 | 1350.8 | 1324.9 | 1280.5 | 1247.6 | 1230.6 | 1259.8 | 1294.9 | 1436.3 | 1516.2 | 1146.9 |
| 32.5° | 1555.4 | 1511.7 | 1476.6 | 1422.2 | 1368.6 | 1332.3 | 1361.2 | 1384.5 | 1537.6 | 1602.4 | 1189.9 |
| 35°   | 1771.1 | 1757.0 | 1696.4 | 1598.3 | 1516.2 | 1483.6 | 1500.6 | 1518.0 | 1655.7 | 1734.1 | 1262.0 |
| 37.5° | 1983.1 | 1963.9 | 1913.9 | 1831.4 | 1731.5 | 1665.3 | 1677.5 | 1697.8 | 1788.1 | 1911.7 | 1350.1 |
| 40°   | 2135.5 | 2111.8 | 2086.7 | 2074.5 | 1975.3 | 1884.7 | 1877.6 | 1882.8 | 1967.2 | 2078.2 | 1447.7 |
| 42.5° | 2146.6 | 2175.8 | 2183.6 | 2232.8 | 2209.5 | 2135.2 | 2091.9 | 2093.0 | 2138.1 | 2242.8 | 1546.5 |
| 45°   | 2123.3 | 2096.3 | 2153.7 | 2288.0 | 2364.9 | 2399.7 | 2326.8 | 2317.6 | 2243.9 | 2338.3 | 1595.7 |
| 47.5° | 1878.8 | 1886.2 | 1983.1 | 2195.5 | 2417.8 | 2573.2 | 2556.2 | 2525.5 | 2300.5 | 2334.9 | 1588.0 |
| 50°   | 1485.1 | 1529.9 | 1619.8 | 1884.3 | 2269.8 | 2600.6 | 2700.9 | 2629.8 | 2266.9 | 2243.2 | 1508.8 |
| 52.5° | 989.0  | 1007.5 | 1066.7 | 1408.1 | 1825.1 | 2324.6 | 2534.4 | 2550.6 | 2235.8 | 2122.9 | 1408.5 |
| 55°   | 440.3  | 438.8  | 522.0  | 735.5  | 1145.1 | 1768.9 | 2070.8 | 2169.9 | 2116.3 | 2000.5 | 1310.8 |
| 57.5° | 186.5  | 192.8  | 226.8  | 317.8  | 563.1  | 1067.4 | 1403.0 | 1489.9 | 1627.5 | 1642.7 | 1005.6 |
| 60°   | 126.2  | 126.9  | 136.2  | 159.1  | 235.7  | 501.3  | 735.9  | 840.2  | 938.6  | 932.0  | 533.5  |
| 62.5° | 99.2   | 101.7  | 108.8  | 118.0  | 139.9  | 227.5  | 329.3  | 387.4  | 393.7  | 331.1  | 202.4  |
| 65°   | 84.7   | 85.1   | 92.1   | 99.9   | 109.5  | 132.5  | 158.7  | 161.7  | 163.5  | 157.6  | 148.7  |
| 67.5° | 69.9   | 70.7   | 76.2   | 85.1   | 94.0   | 101.4  | 108.8  | 112.5  | 121.0  | 137.6  | 135.4  |
| 70°   | 55.5   | 56.6   | 61.4   | 68.8   | 77.0   | 81.4   | 90.6   | 94.0   | 101.7  | 114.7  | 119.9  |
| 72.5° | 42.2   | 42.5   | 46.6   | 51.8   | 59.2   | 63.6   | 71.4   | 75.1   | 80.3   | 91.4   | 96.2   |
| 75°   | 30.3   | 31.4   | 34.4   | 37.0   | 38.1   | 41.1   | 48.5   | 52.5   | 59.9   | 64.7   | 65.1   |
| 77.5° | 15.9   | 16.6   | 17.4   | 17.4   | 21.1   | 26.6   | 31.4   | 33.7   | 38.8   | 42.5   | 40.7   |
| 80°   | 6.3    | 6.7    | 8.5    | 11.5   | 14.8   | 19.2   | 22.6   | 23.7   | 28.1   | 30.3   | 31.4   |
| 82.5° | 3.7    | 4.1    | 5.5    | 8.1    | 10.7   | 13.7   | 16.3   | 17.4   | 20.3   | 22.9   | 23.7   |
| 85°   | 1.8    | 2.2    | 3.3    | 5.2    | 7.0    | 8.5    | 8.1    | 7.8    | 7.8    | 7.4    | 7.8    |
| 87.5° | 0.7    | 0.7    | 1.1    | 1.1    | 1.1    | 1.5    | 1.8    | 1.8    | 1.8    | 2.2    | 2.2    |
| 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°    | 865.4 | 865.4 | 865.4 | 865.4 | 865.4 | 865.4 | 865.4 | 865.4 | 865.4 | 865.4 | 865.4 |
| 2.5°  | 866.5 | 851.7 | 838.0 | 812.8 | 785.5 | 777.7 | 745.9 | 734.4 | 726.3 | 716.7 | 713.7 |
| 5°    | 870.9 | 851.3 | 807.3 | 756.6 | 716.3 | 664.5 | 630.4 | 593.8 | 567.2 | 560.5 | 558.7 |
| 7.5°  | 880.2 | 846.5 | 770.7 | 694.1 | 611.6 | 541.3 | 487.6 | 458.8 | 433.2 | 431.8 | 429.2 |
| 10°   | 890.5 | 832.1 | 730.7 | 610.5 | 505.0 | 439.9 | 407.7 | 395.1 | 388.8 | 387.4 | 386.6 |
| 12.5° | 899.1 | 829.1 | 685.9 | 529.1 | 429.5 | 390.3 | 380.7 | 379.6 | 382.2 | 382.9 | 384.4 |
| 15°   | 902.8 | 817.3 | 631.9 | 456.2 | 382.6 | 368.1 | 372.2 | 376.6 | 378.5 | 383.3 | 379.6 |
| 17.5° | 909.8 | 802.1 | 565.3 | 398.5 | 356.3 | 358.9 | 365.9 | 371.1 | 374.0 | 377.4 | 372.6 |
| 20°   | 913.5 | 788.4 | 502.8 | 364.1 | 347.0 | 351.9 | 361.5 | 365.5 | 369.2 | 370.7 | 365.2 |
| 22.5° | 910.1 | 760.3 | 447.7 | 336.3 | 338.2 | 344.5 | 353.0 | 357.4 | 355.2 | 349.3 | 345.9 |
| 25°   | 901.3 | 720.7 | 390.3 | 318.6 | 325.6 | 336.7 | 343.3 | 340.0 | 335.9 | 332.6 | 331.5 |
| 27.5° | 900.9 | 672.3 | 348.9 | 302.3 | 314.9 | 330.0 | 327.8 | 324.8 | 326.7 | 324.1 | 321.1 |
| 30°   | 902.8 | 625.3 | 314.9 | 293.0 | 307.1 | 314.5 | 317.1 | 314.1 | 316.3 | 311.5 | 313.0 |
| 32.5° | 893.1 | 579.4 | 292.7 | 282.3 | 297.8 | 297.5 | 306.0 | 308.2 | 303.0 | 293.0 | 294.5 |
| 35°   | 897.2 | 542.4 | 273.8 | 277.5 | 287.5 | 287.5 | 294.1 | 291.5 | 277.9 | 271.9 | 273.4 |
| 37.5° | 925.3 | 506.1 | 264.5 | 270.8 | 277.5 | 280.4 | 278.2 | 267.1 | 263.8 | 263.8 | 264.5 |
| 40°   | 952.0 | 475.1 | 259.0 | 269.3 | 268.2 | 270.1 | 253.8 | 254.9 | 254.9 | 255.3 | 253.4 |
| 42.5° | 975.6 | 454.0 | 254.5 | 260.5 | 262.3 | 252.7 | 242.7 | 241.6 | 244.2 | 243.8 | 242.3 |
| 45°   | 984.1 | 436.6 | 248.3 | 250.5 | 252.0 | 236.0 | 231.2 | 229.0 | 232.0 | 233.1 | 234.6 |
| 47.5° | 951.6 | 422.1 | 241.2 | 236.8 | 233.8 | 223.5 | 217.2 | 213.1 | 216.8 | 223.1 | 224.6 |
| 50°   | 909.8 | 403.3 | 230.1 | 221.6 | 215.3 | 210.9 | 206.4 | 202.4 | 205.0 | 209.4 | 208.3 |
| 52.5° | 848.0 | 373.7 | 216.1 | 207.2 | 196.5 | 197.6 | 193.5 | 191.3 | 192.8 | 192.8 | 191.6 |
| 55°   | 759.9 | 307.1 | 192.4 | 186.1 | 177.2 | 180.2 | 180.9 | 178.0 | 175.0 | 177.6 | 175.4 |
| 57.5° | 518.7 | 216.8 | 171.7 | 171.7 | 162.8 | 166.9 | 166.5 | 159.5 | 152.4 | 153.2 | 151.7 |
| 60°   | 300.1 | 172.8 | 158.4 | 156.9 | 147.6 | 151.0 | 151.7 | 146.9 | 136.2 | 136.9 | 135.4 |
| 62.5° | 170.6 | 147.6 | 138.4 | 136.2 | 134.3 | 137.3 | 137.3 | 131.0 | 121.7 | 122.5 | 121.0 |
| 65°   | 145.0 | 136.9 | 123.6 | 123.2 | 122.5 | 123.2 | 120.2 | 113.6 | 105.4 | 102.1 | 102.5 |
| 67.5° | 131.7 | 126.5 | 113.6 | 110.3 | 108.0 | 107.7 | 102.1 | 95.8  | 92.1  | 89.2  | 88.8  |
| 70°   | 115.4 | 111.4 | 101.7 | 97.3  | 95.1  | 89.9  | 84.4  | 80.3  | 75.1  | 73.6  | 75.1  |
| 72.5° | 91.4  | 91.0  | 87.3  | 82.5  | 77.7  | 73.6  | 68.8  | 63.3  | 58.5  | 57.3  | 54.8  |
| 75°   | 63.3  | 64.0  | 64.7  | 64.0  | 59.9  | 54.8  | 49.2  | 44.8  | 38.8  | 35.5  | 34.8  |
| 77.5° | 41.4  | 42.5  | 43.7  | 42.2  | 39.6  | 34.8  | 31.1  | 25.5  | 21.1  | 18.5  | 18.1  |
| 80°   | 30.3  | 31.8  | 32.6  | 31.4  | 28.5  | 24.8  | 20.7  | 16.3  | 12.9  | 10.7  | 10.7  |
| 82.5° | 23.3  | 24.8  | 25.5  | 23.7  | 20.7  | 17.8  | 14.8  | 11.5  | 8.9   | 7.0   | 6.7   |
| 85°   | 8.1   | 7.8   | 9.2   | 9.6   | 11.5  | 10.7  | 8.9   | 6.7   | 5.2   | 3.7   | 3.3   |
| 87.5° | 2.2   | 2.2   | 2.6   | 2.6   | 2.2   | 1.8   | 1.8   | 1.8   | 1.5   | 1.1   | 1.1   |
| 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)