

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: P652678

Luminaire Tested: **GLAN-SA1C-840-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652678  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1C-840-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3528.8 lumens  
Efficiency: N/A  
Efficacy: 61.9 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

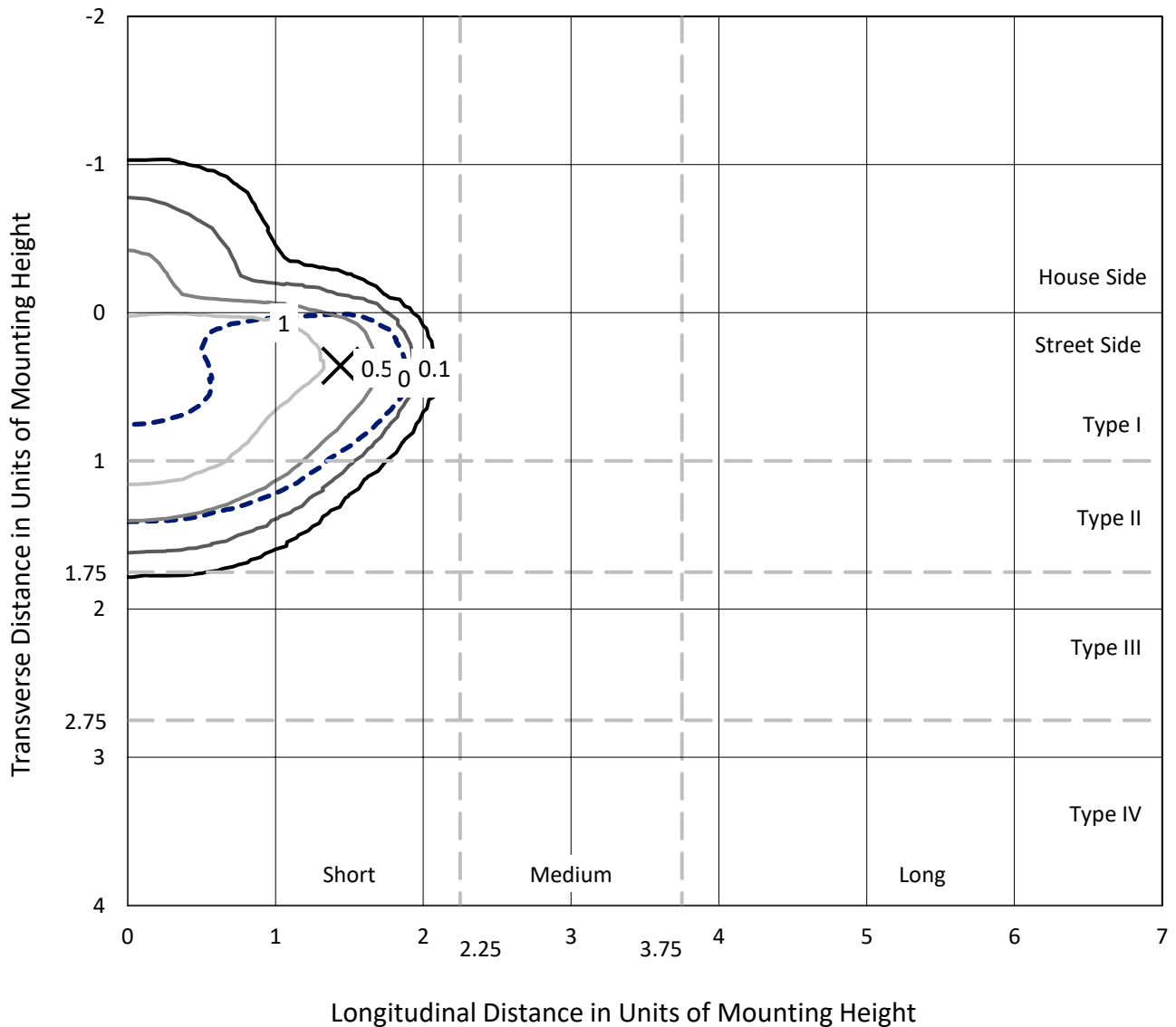
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

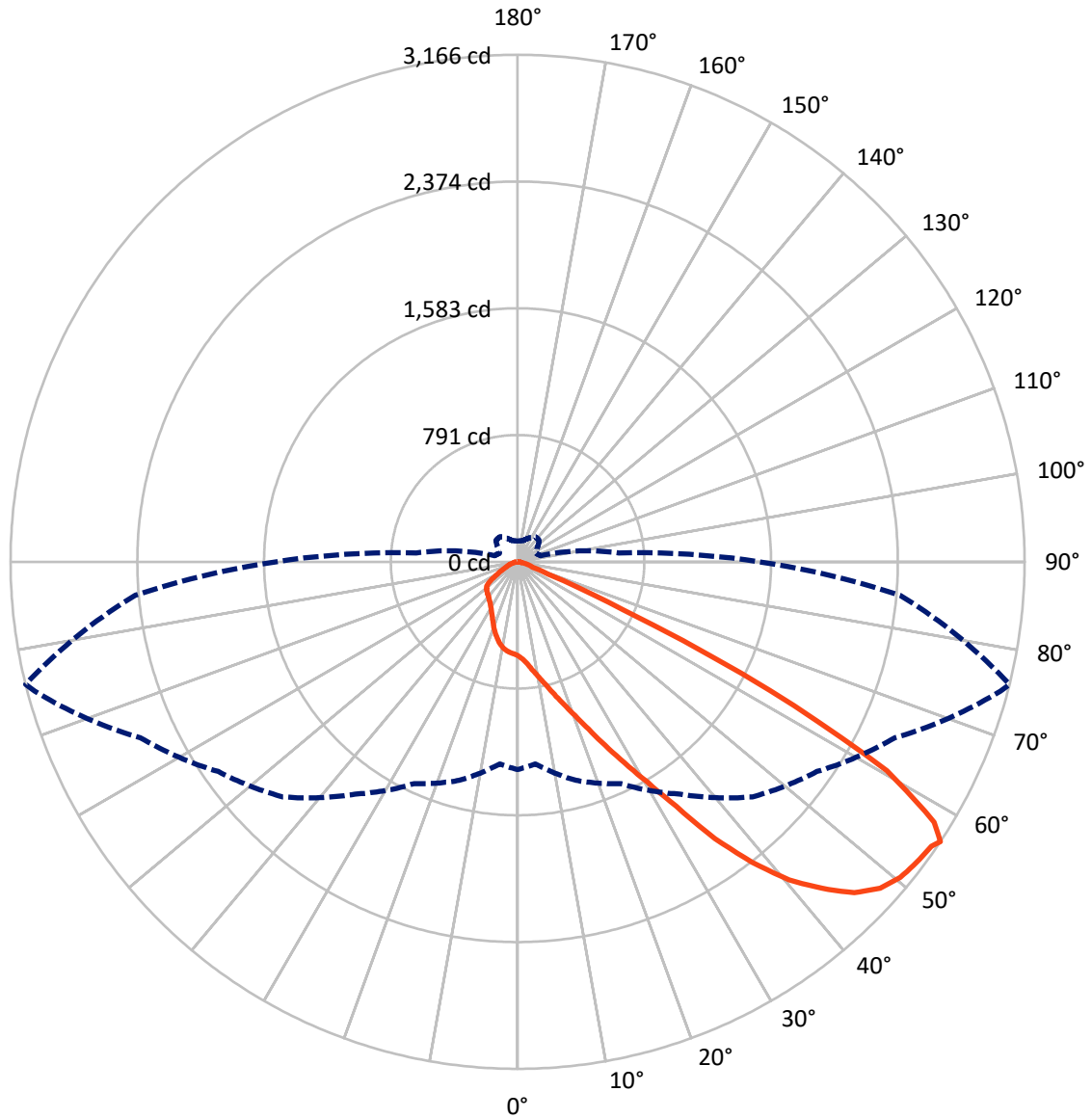
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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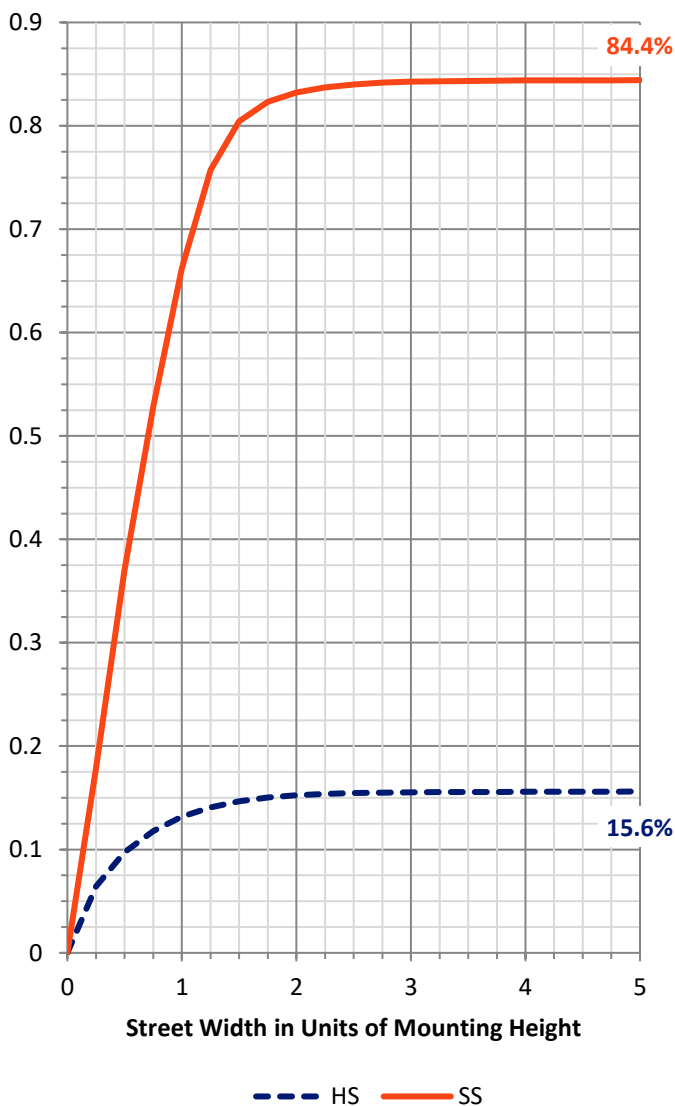
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 554.4    | 0.0    | 554.4  |
|                    | % Fixture | 15.7     | 0.0    | 15.7   |
| <b>Street Side</b> | Lumens    | 2974.5   | 0.0    | 2974.5 |
|                    | % Fixture | 84.3     | 0.0    | 84.3   |
| <b>Total</b>       | Lumens    | 3528.8   | 0.0    | 3528.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.2   | 1.7       |
| 10°-20°   | 190.1  | 5.4       |
| 20°-30°   | 344.7  | 9.8       |
| 30°-40°   | 594.4  | 16.8      |
| 40°-50°   | 965.7  | 27.4      |
| 50°-60°   | 1017.9 | 28.8      |
| 60°-70°   | 311.0  | 8.8       |
| 70°-80°   | 39.9   | 1.1       |
| 80°-90°   | 6.1    | 0.2       |
| 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°    | 3528.8 | 100.0     |
| 0°-180°   | 3528.8 | 100.0     |

**Coefficient of Utilization**

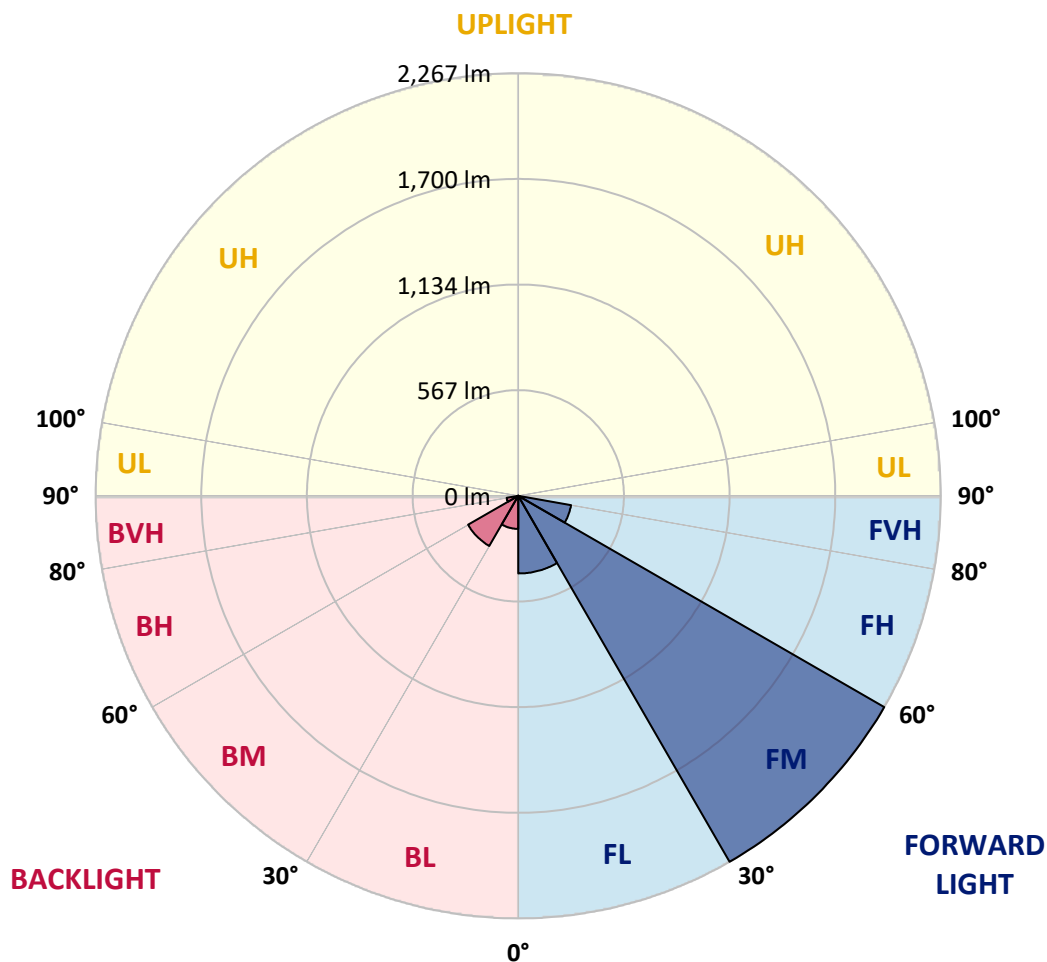


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 416.6  | 11.8      |                         |      |        |
| FM (30°-60°)   | 2267.3 | 64.2      |                         |      |        |
| FH (60°-80°)   | 287.6  | 8.2       |                         |      | G0/660 |
| FVH (80°-90°)  | 3.0    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 177.3  | 5.0       | B1/500                  |      |        |
| BM (30°-60°)   | 310.7  | 8.8       | B1/1000                 |      |        |
| BH (60°-80°)   | 63.2   | 1.8       | B0/110                  |      | G0/110 |
| BVH (80°-90°)  | 3.1    | 0.1       |                         |      | 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°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 587.4  | 587.4  | 587.4  | 587.4  | 587.4  | 587.4  | 587.4  | 587.4  | 587.4  | 587.4  | 587.4  |
| 2.5°  | 676.5  | 660.9  | 661.5  | 660.3  | 658.3  | 651.1  | 629.7  | 626.4  | 612.1  | 608.2  | 595.2  |
| 5°    | 757.8  | 744.1  | 751.9  | 740.2  | 729.1  | 722.7  | 687.5  | 671.3  | 648.5  | 640.1  | 621.8  |
| 7.5°  | 808.5  | 802.1  | 799.5  | 800.1  | 789.7  | 773.4  | 757.8  | 722.0  | 691.5  | 684.9  | 646.6  |
| 10°   | 833.3  | 829.4  | 833.3  | 831.3  | 835.9  | 837.8  | 810.5  | 789.0  | 744.1  | 733.1  | 673.2  |
| 12.5° | 839.1  | 846.9  | 850.2  | 858.7  | 869.7  | 888.5  | 886.6  | 857.3  | 797.5  | 790.3  | 714.3  |
| 15°   | 853.4  | 859.9  | 856.6  | 870.4  | 891.1  | 923.0  | 939.9  | 935.4  | 871.0  | 858.0  | 761.7  |
| 17.5° | 866.4  | 854.7  | 865.8  | 893.1  | 913.9  | 962.7  | 1003.6 | 1022.6 | 951.0  | 936.0  | 805.3  |
| 20°   | 884.0  | 880.8  | 878.8  | 892.5  | 929.6  | 994.6  | 1075.9 | 1110.4 | 1040.7 | 1025.2 | 867.7  |
| 22.5° | 937.3  | 938.0  | 936.7  | 916.5  | 943.2  | 1016.7 | 1139.0 | 1224.2 | 1148.0 | 1135.1 | 938.6  |
| 25°   | 1007.6 | 999.1  | 992.6  | 976.4  | 973.1  | 1036.9 | 1202.7 | 1363.4 | 1276.9 | 1267.8 | 1015.4 |
| 27.5° | 1081.8 | 1081.8 | 1062.3 | 1047.3 | 1026.4 | 1086.9 | 1261.2 | 1498.7 | 1432.3 | 1420.0 | 1082.4 |
| 30°   | 1162.4 | 1167.0 | 1164.4 | 1132.5 | 1119.5 | 1141.6 | 1321.1 | 1671.7 | 1610.6 | 1595.0 | 1193.0 |
| 32.5° | 1281.4 | 1271.7 | 1282.8 | 1256.0 | 1217.7 | 1237.2 | 1415.4 | 1826.6 | 1842.1 | 1820.0 | 1338.0 |
| 35°   | 1438.9 | 1433.0 | 1425.8 | 1382.3 | 1336.8 | 1352.3 | 1548.8 | 2017.1 | 2132.9 | 2121.8 | 1484.4 |
| 37.5° | 1580.0 | 1576.8 | 1570.9 | 1541.0 | 1488.3 | 1507.2 | 1700.3 | 2215.5 | 2416.5 | 2380.1 | 1691.3 |
| 40°   | 1728.3 | 1745.9 | 1727.0 | 1700.3 | 1652.2 | 1693.9 | 1878.5 | 2333.3 | 2655.2 | 2611.1 | 1849.3 |
| 42.5° | 1929.3 | 1915.6 | 1924.1 | 1875.3 | 1849.3 | 1894.9 | 2057.4 | 2451.0 | 2840.6 | 2787.9 | 2017.1 |
| 45°   | 2143.3 | 2144.0 | 2121.2 | 2105.6 | 2037.9 | 2087.4 | 2167.4 | 2516.0 | 2988.3 | 2947.3 | 2144.0 |
| 47.5° | 2280.5 | 2280.0 | 2304.7 | 2329.3 | 2259.8 | 2211.0 | 2242.2 | 2577.8 | 3064.4 | 3045.5 | 2190.1 |
| 50°   | 2259.1 | 2265.6 | 2297.4 | 2389.9 | 2426.3 | 2360.6 | 2312.4 | 2559.6 | 3098.8 | 3096.9 | 2229.8 |
| 52.5° | 1965.1 | 1986.5 | 2039.9 | 2173.2 | 2356.7 | 2438.0 | 2385.9 | 2593.5 | 3115.8 | 3119.0 | 2289.0 |
| 55°   | 1496.1 | 1507.8 | 1609.3 | 1771.2 | 1974.2 | 2252.6 | 2356.7 | 2620.1 | 3128.8 | 3134.7 | 2360.6 |
| 56°   | 1297.7 | 1266.5 | 1412.8 | 1527.9 | 1770.6 | 2075.0 | 2282.6 | 2599.3 | 3121.0 | 3165.9 | 2396.3 |
| 57.5° | 979.6  | 958.8  | 1077.2 | 1221.0 | 1454.4 | 1775.8 | 2052.3 | 2501.0 | 3068.3 | 3067.6 | 2345.0 |
| 60°   | 595.8  | 575.0  | 666.1  | 750.7  | 881.4  | 1093.5 | 1386.8 | 1991.7 | 2594.1 | 2648.7 | 1898.7 |
| 62.5° | 354.5  | 367.5  | 457.3  | 508.6  | 550.9  | 573.1  | 717.5  | 1183.9 | 1730.9 | 1770.0 | 1178.0 |
| 65°   | 236.2  | 240.7  | 308.3  | 392.9  | 411.8  | 327.8  | 292.1  | 479.4  | 750.7  | 726.6  | 485.9  |
| 67.5° | 145.7  | 156.1  | 206.9  | 295.3  | 327.1  | 239.3  | 138.5  | 178.9  | 206.9  | 206.9  | 140.5  |
| 70°   | 88.5   | 93.7   | 137.9  | 201.0  | 224.4  | 154.2  | 100.8  | 100.8  | 99.5   | 97.6   | 83.9   |
| 72.5° | 42.3   | 45.5   | 70.2   | 103.4  | 105.4  | 81.3   | 78.0   | 85.2   | 83.3   | 82.6   | 69.6   |
| 75°   | 18.2   | 19.5   | 24.7   | 32.5   | 37.1   | 34.5   | 47.5   | 61.1   | 63.1   | 61.1   | 50.1   |
| 77.5° | 5.9    | 6.5    | 9.1    | 11.7   | 12.4   | 15.0   | 20.2   | 25.4   | 29.3   | 27.3   | 24.7   |
| 80°   | 0.7    | 1.3    | 2.6    | 5.9    | 9.1    | 11.7   | 15.0   | 16.9   | 18.8   | 18.8   | 17.6   |
| 82.5° | 0.7    | 0.7    | 2.6    | 5.2    | 8.5    | 11.0   | 14.3   | 16.2   | 18.8   | 19.5   | 18.2   |
| 85°   | 0.0    | 0.7    | 1.9    | 4.5    | 7.1    | 7.1    | 6.5    | 6.5    | 4.5    | 4.5    | 4.5    |
| 87.5° | 0.0    | 0.0    | 0.7    | 0.7    | 0.7    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 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°    | 587.4  | 587.4 | 587.4 | 587.4 | 587.4 | 587.4 | 587.4 | 587.4 | 587.4 | 587.4 | 587.4 |
| 2.5°  | 592.6  | 591.3 | 573.7 | 562.6 | 556.8 | 545.1 | 537.9 | 532.8 | 528.8 | 524.3 | 525.0 |
| 5°    | 600.4  | 595.8 | 566.6 | 546.4 | 522.3 | 509.3 | 498.3 | 489.1 | 483.3 | 482.0 | 479.4 |
| 7.5°  | 622.5  | 598.5 | 554.2 | 517.8 | 487.2 | 474.2 | 464.4 | 458.6 | 461.2 | 455.3 | 459.9 |
| 10°   | 639.4  | 603.7 | 539.2 | 486.5 | 456.0 | 446.2 | 441.0 | 445.6 | 452.1 | 449.5 | 446.2 |
| 12.5° | 660.3  | 608.9 | 515.2 | 456.7 | 428.0 | 420.8 | 430.0 | 438.4 | 451.4 | 456.7 | 450.1 |
| 15°   | 683.6  | 614.7 | 484.6 | 422.2 | 403.9 | 409.8 | 425.4 | 440.3 | 453.4 | 459.9 | 463.8 |
| 17.5° | 712.2  | 612.8 | 454.6 | 394.8 | 381.1 | 398.1 | 417.0 | 430.6 | 450.1 | 459.9 | 457.3 |
| 20°   | 738.9  | 606.3 | 421.5 | 367.5 | 368.2 | 383.7 | 399.4 | 421.5 | 431.9 | 444.9 | 440.3 |
| 22.5° | 764.3  | 594.5 | 387.0 | 348.7 | 348.7 | 372.7 | 380.6 | 394.8 | 403.9 | 410.5 | 409.8 |
| 25°   | 800.1  | 572.4 | 358.4 | 330.4 | 338.3 | 353.9 | 360.4 | 364.9 | 361.0 | 366.3 | 366.8 |
| 27.5° | 825.4  | 549.7 | 335.0 | 314.2 | 328.5 | 340.2 | 338.3 | 335.6 | 326.6 | 319.4 | 324.0 |
| 30°   | 852.8  | 523.0 | 314.9 | 303.1 | 310.9 | 321.3 | 313.5 | 305.7 | 291.4 | 279.7 | 280.4 |
| 32.5° | 891.8  | 510.7 | 297.3 | 290.1 | 300.5 | 301.8 | 293.3 | 281.7 | 267.4 | 256.3 | 255.7 |
| 35°   | 964.6  | 502.8 | 282.3 | 281.7 | 283.6 | 284.3 | 275.8 | 261.5 | 255.7 | 246.5 | 249.8 |
| 37.5° | 1037.5 | 498.9 | 271.9 | 269.3 | 268.6 | 269.3 | 259.5 | 245.9 | 256.9 | 256.3 | 257.6 |
| 40°   | 1130.6 | 516.5 | 256.9 | 253.6 | 254.3 | 254.3 | 242.0 | 238.1 | 257.6 | 259.5 | 260.2 |
| 42.5° | 1224.8 | 538.6 | 247.2 | 236.7 | 239.3 | 239.3 | 232.9 | 228.3 | 242.0 | 229.0 | 227.0 |
| 45°   | 1306.8 | 571.1 | 236.7 | 219.8 | 226.4 | 229.6 | 227.7 | 219.8 | 211.4 | 189.3 | 189.3 |
| 47.5° | 1333.5 | 599.7 | 224.4 | 203.6 | 208.8 | 223.1 | 217.2 | 201.0 | 186.0 | 167.9 | 166.5 |
| 50°   | 1380.3 | 631.0 | 214.6 | 184.8 | 195.8 | 213.4 | 207.5 | 191.2 | 174.3 | 161.3 | 162.0 |
| 52.5° | 1428.4 | 666.7 | 196.5 | 162.6 | 176.3 | 205.5 | 205.5 | 187.4 | 161.3 | 152.2 | 150.9 |
| 55°   | 1500.7 | 665.4 | 163.9 | 133.4 | 157.4 | 193.9 | 197.1 | 167.9 | 144.4 | 137.3 | 137.3 |
| 56°   | 1511.0 | 635.5 | 147.7 | 124.9 | 148.9 | 190.6 | 191.2 | 162.6 | 137.9 | 130.1 | 130.1 |
| 57.5° | 1433.0 | 573.7 | 129.4 | 114.5 | 138.5 | 184.8 | 185.4 | 158.0 | 132.7 | 121.6 | 120.3 |
| 60°   | 1102.6 | 388.4 | 108.0 | 102.1 | 125.6 | 166.5 | 169.8 | 143.7 | 116.4 | 108.0 | 107.3 |
| 62.5° | 622.5  | 215.3 | 94.9  | 92.3  | 108.0 | 141.8 | 151.5 | 125.6 | 98.9  | 94.4  | 95.6  |
| 65°   | 284.3  | 118.4 | 80.0  | 74.8  | 87.1  | 109.2 | 122.3 | 103.4 | 81.3  | 76.1  | 76.1  |
| 67.5° | 104.1  | 80.7  | 68.3  | 59.2  | 61.1  | 70.9  | 79.4  | 67.0  | 54.0  | 46.2  | 48.1  |
| 70°   | 74.2   | 67.6  | 59.9  | 51.4  | 47.5  | 46.2  | 45.5  | 37.8  | 26.7  | 20.9  | 22.1  |
| 72.5° | 59.9   | 55.9  | 50.1  | 43.6  | 37.1  | 31.2  | 26.7  | 19.5  | 12.4  | 8.5   | 7.8   |
| 75°   | 42.9   | 41.0  | 36.4  | 31.2  | 26.0  | 22.1  | 18.2  | 12.4  | 6.5   | 3.3   | 3.3   |
| 77.5° | 22.1   | 22.1  | 21.4  | 19.5  | 16.2  | 13.0  | 10.4  | 7.1   | 3.9   | 1.3   | 1.3   |
| 80°   | 16.9   | 18.2  | 18.8  | 16.9  | 15.0  | 11.7  | 8.5   | 5.2   | 2.6   | 0.7   | 0.7   |
| 82.5° | 16.2   | 18.8  | 20.2  | 17.6  | 15.0  | 11.0  | 8.5   | 5.2   | 2.6   | 0.7   | 0.7   |
| 85°   | 3.9    | 3.9   | 5.9   | 6.5   | 8.5   | 9.1   | 7.1   | 4.5   | 1.9   | 0.7   | 0.7   |
| 87.5° | 1.3    | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 0.7   | 0.7   | 0.7   | 0.7   | 0.0   |
| 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)