

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: P654218

Luminaire Tested: **GLAN-SA2B-840-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P654218  
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-SA2B-840-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5676.7 lumens  
Efficiency: N/A  
Efficacy: 69.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

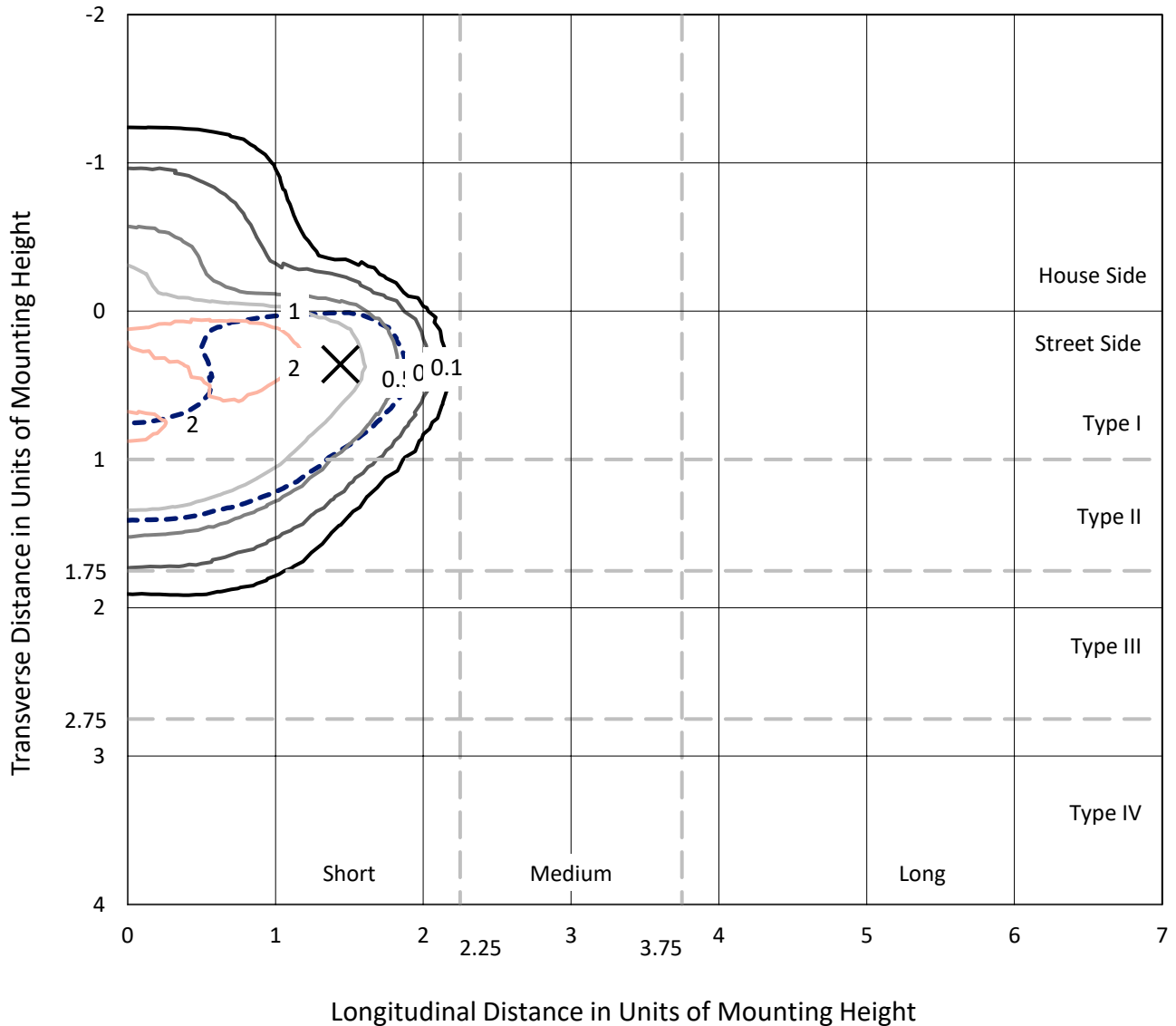
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

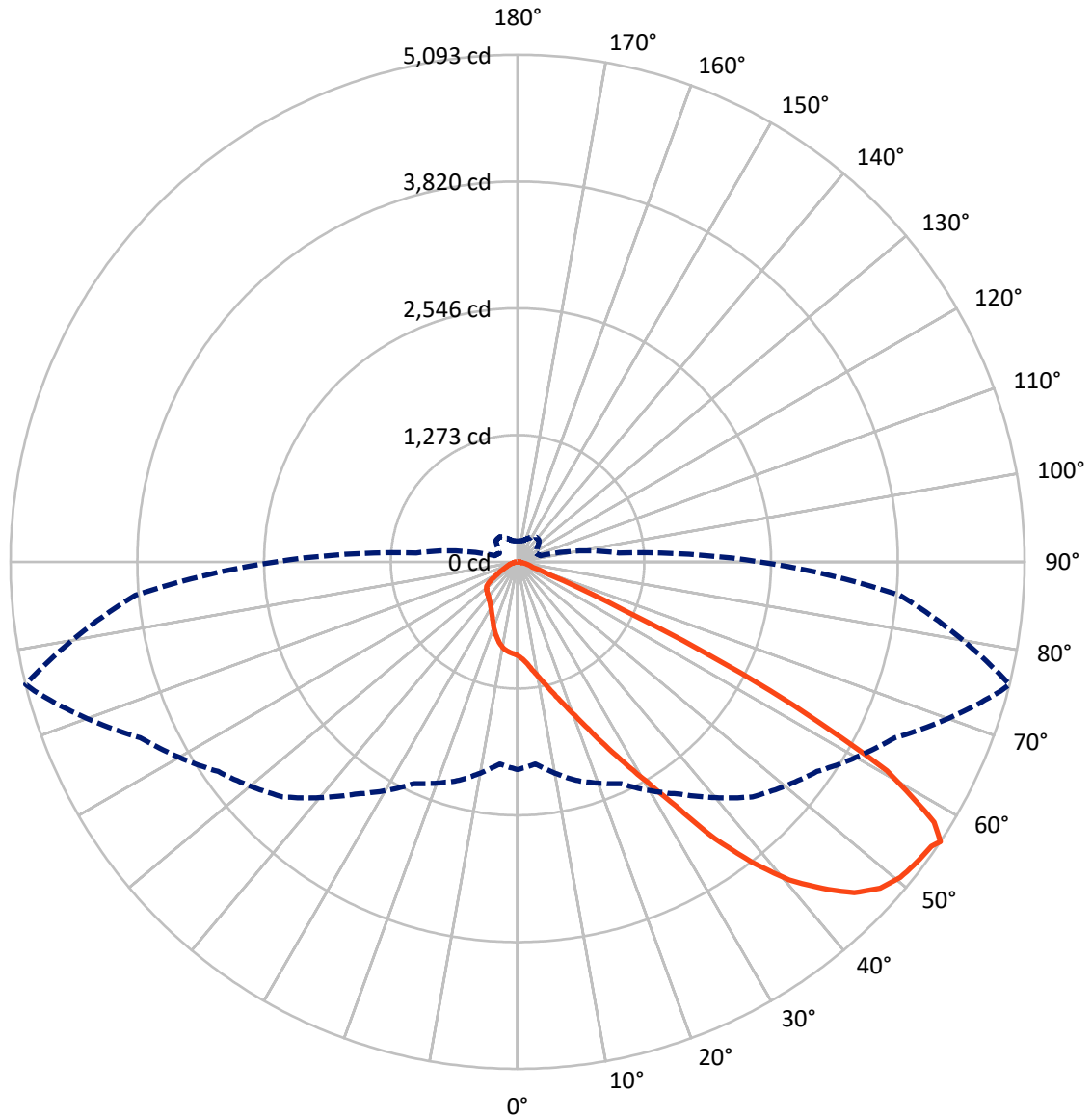
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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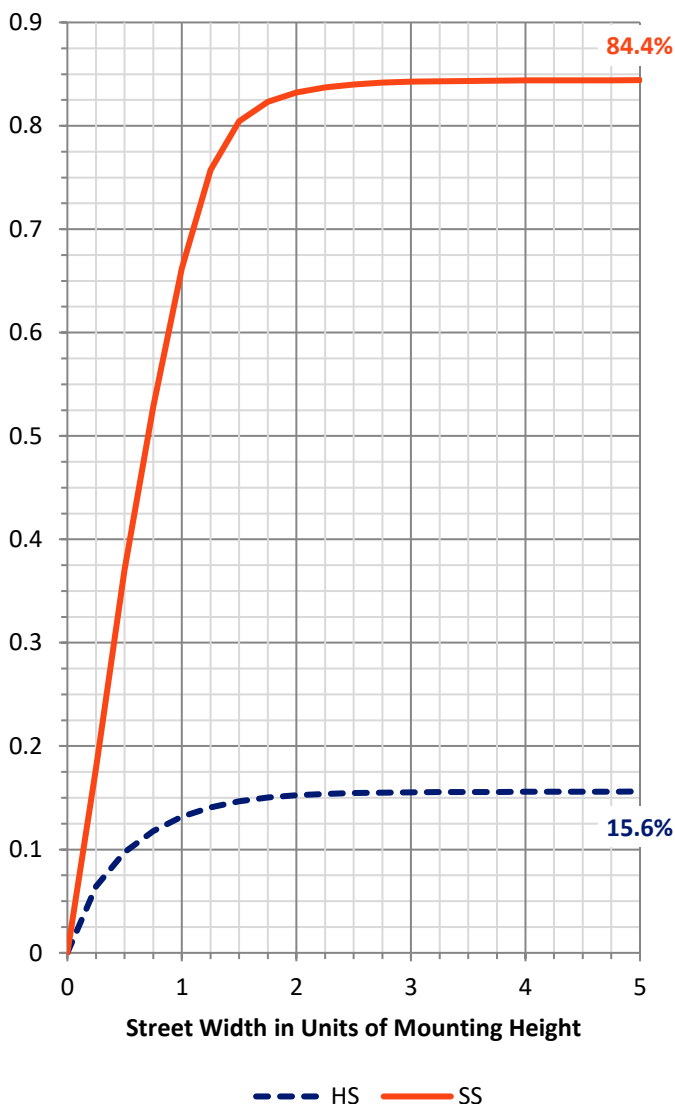
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 891.8    | 0.0    | 891.8  |
|                    | % Fixture | 15.7     | 0.0    | 15.7   |
| <b>Street Side</b> | Lumens    | 4785.0   | 0.0    | 4785.0 |
|                    | % Fixture | 84.3     | 0.0    | 84.3   |
| <b>Total</b>       | Lumens    | 5676.7   | 0.0    | 5676.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 95.2   | 1.7       |
| 10°-20°   | 305.8  | 5.4       |
| 20°-30°   | 554.5  | 9.8       |
| 30°-40°   | 956.3  | 16.8      |
| 40°-50°   | 1553.5 | 27.4      |
| 50°-60°   | 1637.4 | 28.8      |
| 60°-70°   | 500.3  | 8.8       |
| 70°-80°   | 64.1   | 1.1       |
| 80°-90°   | 9.7    | 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°    | 5676.7 | 100.0     |
| 0°-180°   | 5676.7 | 100.0     |

**Coefficient of Utilization**

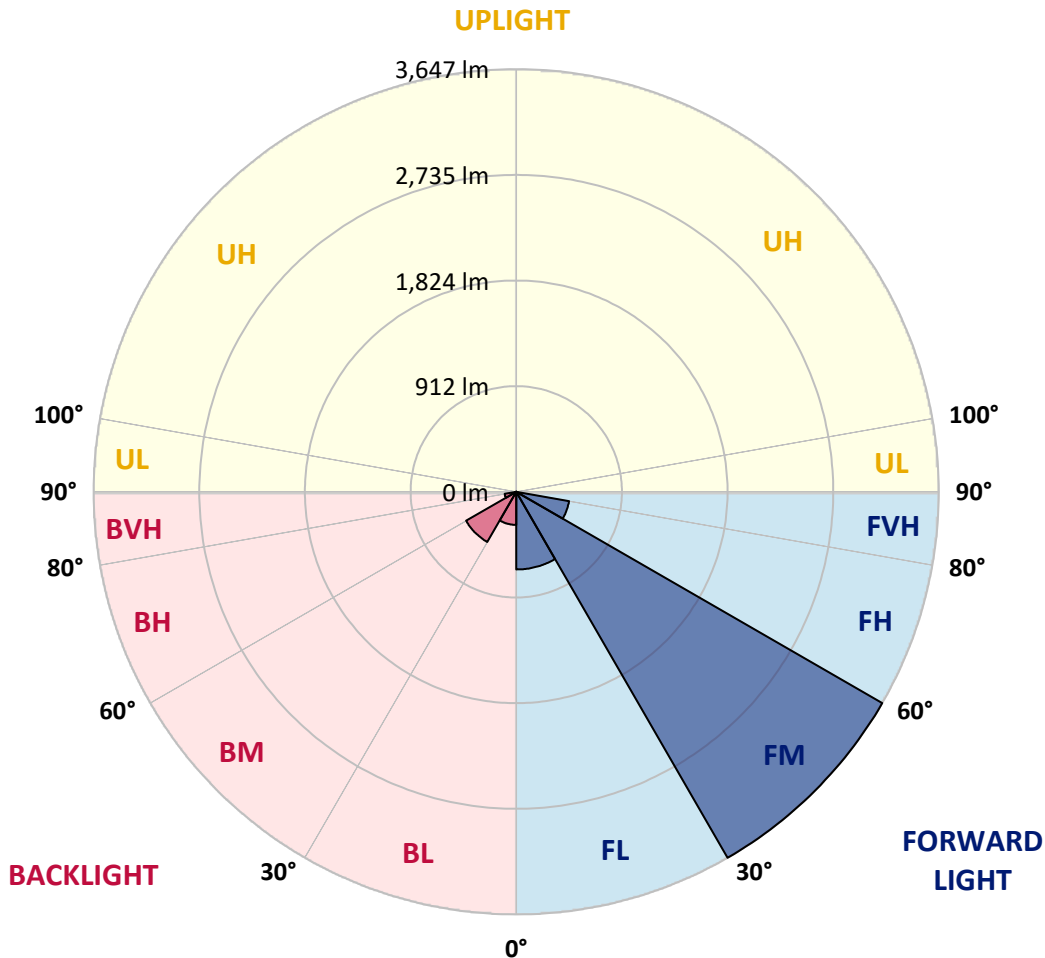


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 670.2  | 11.8      |                         |      |        |
| FM (30°-60°)   | 3647.3 | 64.2      |                         |      |        |
| FH (60°-80°)   | 462.7  | 8.2       |                         |      | G0/660 |
| FVH (80°-90°)  | 4.8    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 285.3  | 5.0       | B1/500                  |      |        |
| BM (30°-60°)   | 499.8  | 8.8       | B1/1000                 |      |        |
| BH (60°-80°)   | 101.7  | 1.8       | B0/110                  |      | G0/110 |
| BVH (80°-90°)  | 5.0    | 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°    | 944.9  | 944.9  | 944.9  | 944.9  | 944.9  | 944.9  | 944.9  | 944.9  | 944.9  | 944.9  | 944.9  |
| 2.5°  | 1088.3 | 1063.1 | 1064.2 | 1062.1 | 1059.0 | 1047.5 | 1012.9 | 1007.7 | 984.6  | 978.4  | 957.5  |
| 5°    | 1219.0 | 1197.1 | 1209.6 | 1190.8 | 1173.0 | 1162.5 | 1106.1 | 1079.9 | 1043.3 | 1029.6 | 1000.4 |
| 7.5°  | 1300.7 | 1290.2 | 1286.1 | 1287.1 | 1270.3 | 1244.2 | 1219.0 | 1161.5 | 1112.3 | 1101.9 | 1040.1 |
| 10°   | 1340.5 | 1334.2 | 1340.5 | 1337.3 | 1344.6 | 1347.8 | 1303.8 | 1269.3 | 1197.1 | 1179.3 | 1083.0 |
| 12.5° | 1349.9 | 1362.4 | 1367.6 | 1381.3 | 1399.0 | 1429.4 | 1426.3 | 1379.2 | 1282.9 | 1271.4 | 1149.0 |
| 15°   | 1372.8 | 1383.4 | 1378.1 | 1400.1 | 1433.6 | 1484.9 | 1512.0 | 1504.7 | 1401.1 | 1380.2 | 1225.3 |
| 17.5° | 1393.8 | 1375.0 | 1392.8 | 1436.7 | 1470.2 | 1548.7 | 1614.6 | 1644.9 | 1529.9 | 1505.8 | 1295.5 |
| 20°   | 1422.0 | 1416.8 | 1413.7 | 1435.7 | 1495.3 | 1599.9 | 1730.8 | 1786.2 | 1674.3 | 1649.1 | 1395.9 |
| 22.5° | 1507.8 | 1508.9 | 1506.8 | 1474.4 | 1517.2 | 1635.5 | 1832.3 | 1969.4 | 1846.9 | 1826.0 | 1509.9 |
| 25°   | 1620.9 | 1607.3 | 1596.8 | 1570.7 | 1565.4 | 1668.0 | 1934.8 | 2193.2 | 2054.1 | 2039.4 | 1633.5 |
| 27.5° | 1740.2 | 1740.2 | 1708.7 | 1684.7 | 1651.2 | 1748.5 | 2029.0 | 2410.9 | 2304.2 | 2284.3 | 1741.2 |
| 30°   | 1870.0 | 1877.3 | 1873.1 | 1821.8 | 1800.8 | 1836.4 | 2125.2 | 2689.3 | 2590.9 | 2565.8 | 1919.1 |
| 32.5° | 2061.5 | 2045.7 | 2063.5 | 2020.6 | 1958.9 | 1990.2 | 2277.0 | 2938.3 | 2963.4 | 2927.9 | 2152.5 |
| 35°   | 2314.7 | 2305.3 | 2293.7 | 2223.6 | 2150.4 | 2175.5 | 2491.5 | 3244.9 | 3431.2 | 3413.4 | 2387.9 |
| 37.5° | 2541.8 | 2536.5 | 2527.0 | 2478.9 | 2394.2 | 2424.5 | 2735.3 | 3564.1 | 3887.4 | 3828.8 | 2720.6 |
| 40°   | 2780.3 | 2808.5 | 2778.2 | 2735.3 | 2657.9 | 2724.8 | 3022.0 | 3753.5 | 4271.4 | 4200.3 | 2975.0 |
| 42.5° | 3103.6 | 3081.7 | 3095.3 | 3016.8 | 2975.0 | 3048.2 | 3309.8 | 3942.9 | 4569.7 | 4484.9 | 3244.9 |
| 45°   | 3447.9 | 3448.9 | 3412.4 | 3387.2 | 3278.4 | 3357.9 | 3486.6 | 4047.5 | 4807.2 | 4741.2 | 3448.9 |
| 47.5° | 3668.7 | 3667.7 | 3707.4 | 3747.2 | 3635.2 | 3556.8 | 3607.0 | 4146.9 | 4929.6 | 4899.2 | 3523.3 |
| 50°   | 3634.1 | 3644.6 | 3695.9 | 3844.5 | 3903.1 | 3797.4 | 3720.0 | 4117.6 | 4985.1 | 4981.9 | 3587.1 |
| 52.5° | 3161.2 | 3195.7 | 3281.5 | 3496.0 | 3791.1 | 3921.9 | 3838.2 | 4172.0 | 5012.3 | 5017.5 | 3682.3 |
| 55°   | 2406.7 | 2425.5 | 2588.8 | 2849.4 | 3175.9 | 3623.7 | 3791.1 | 4214.9 | 5033.2 | 5042.6 | 3797.4 |
| 56°   | 2087.6 | 2037.3 | 2272.8 | 2458.0 | 2848.3 | 3338.0 | 3671.8 | 4181.5 | 5020.7 | 5092.8 | 3855.0 |
| 57.5° | 1575.9 | 1542.4 | 1732.9 | 1964.1 | 2339.7 | 2856.7 | 3301.4 | 4023.4 | 4935.9 | 4934.8 | 3772.3 |
| 60°   | 958.5  | 925.0  | 1071.5 | 1207.6 | 1417.8 | 1759.0 | 2230.9 | 3204.1 | 4173.0 | 4260.9 | 3054.4 |
| 62.5° | 570.3  | 591.2  | 735.6  | 818.3  | 886.3  | 921.9  | 1154.2 | 1904.4 | 2784.5 | 2847.3 | 1895.0 |
| 65°   | 379.9  | 387.2  | 496.0  | 632.0  | 662.4  | 527.4  | 469.9  | 771.2  | 1207.6 | 1168.8 | 781.6  |
| 67.5° | 234.4  | 251.1  | 332.8  | 475.1  | 526.4  | 385.1  | 222.9  | 287.8  | 332.8  | 332.8  | 226.1  |
| 70°   | 142.3  | 150.7  | 221.9  | 323.4  | 361.0  | 248.0  | 162.2  | 162.2  | 160.1  | 156.9  | 135.0  |
| 72.5° | 68.0   | 73.3   | 113.0  | 166.3  | 169.5  | 130.8  | 125.6  | 137.1  | 134.0  | 132.9  | 111.9  |
| 75°   | 29.3   | 31.4   | 39.8   | 52.3   | 59.6   | 55.4   | 76.4   | 98.4   | 101.5  | 98.4   | 80.6   |
| 77.5° | 9.4    | 10.4   | 14.6   | 18.8   | 19.8   | 24.1   | 32.5   | 40.8   | 47.1   | 44.0   | 39.8   |
| 80°   | 1.0    | 2.1    | 4.2    | 9.4    | 14.6   | 18.8   | 24.1   | 27.2   | 30.4   | 30.4   | 28.3   |
| 82.5° | 1.0    | 1.0    | 4.2    | 8.4    | 13.6   | 17.8   | 23.0   | 26.2   | 30.4   | 31.4   | 29.3   |
| 85°   | 0.0    | 1.0    | 3.1    | 7.3    | 11.5   | 11.5   | 10.4   | 10.4   | 7.3    | 7.3    | 7.3    |
| 87.5° | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 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°    | 944.9  | 944.9  | 944.9 | 944.9 | 944.9 | 944.9 | 944.9 | 944.9 | 944.9 | 944.9 | 944.9 |
| 2.5°  | 953.3  | 951.2  | 922.9 | 905.2 | 895.7 | 876.9 | 865.4 | 857.0 | 850.8 | 843.4 | 844.4 |
| 5°    | 965.8  | 958.5  | 911.4 | 879.0 | 840.2 | 819.3 | 801.6 | 786.9 | 777.5 | 775.4 | 771.2 |
| 7.5°  | 1001.4 | 962.7  | 891.5 | 832.9 | 783.7 | 762.9 | 747.1 | 737.7 | 741.9 | 732.5 | 739.8 |
| 10°   | 1028.6 | 971.1  | 867.5 | 782.7 | 733.5 | 717.8 | 709.5 | 716.8 | 727.2 | 723.1 | 717.8 |
| 12.5° | 1062.1 | 979.4  | 828.7 | 734.6 | 688.5 | 677.0 | 691.6 | 705.3 | 726.2 | 734.6 | 724.1 |
| 15°   | 1099.8 | 988.8  | 779.6 | 679.1 | 649.8 | 659.3 | 684.3 | 708.4 | 729.3 | 739.8 | 746.1 |
| 17.5° | 1145.8 | 985.7  | 731.4 | 635.2 | 613.2 | 640.4 | 670.8 | 692.7 | 724.1 | 739.8 | 735.6 |
| 20°   | 1188.8 | 975.2  | 678.1 | 591.2 | 592.2 | 617.4 | 642.5 | 678.1 | 694.8 | 715.8 | 708.4 |
| 22.5° | 1229.5 | 956.4  | 622.6 | 560.9 | 560.9 | 599.5 | 612.2 | 635.2 | 649.8 | 660.3 | 659.3 |
| 25°   | 1287.1 | 920.8  | 576.6 | 531.6 | 544.1 | 569.3 | 579.7 | 587.0 | 580.8 | 589.1 | 590.2 |
| 27.5° | 1327.9 | 884.2  | 538.9 | 505.4 | 528.4 | 547.2 | 544.1 | 539.9 | 525.3 | 513.8 | 521.1 |
| 30°   | 1371.8 | 841.3  | 506.5 | 487.6 | 500.1 | 517.0 | 504.3 | 491.8 | 468.8 | 449.9 | 451.0 |
| 32.5° | 1434.7 | 821.4  | 478.2 | 466.7 | 483.4 | 485.5 | 472.0 | 453.1 | 430.1 | 412.3 | 411.2 |
| 35°   | 1551.8 | 808.9  | 454.1 | 453.1 | 456.2 | 457.3 | 443.7 | 420.7 | 411.2 | 396.6 | 401.8 |
| 37.5° | 1669.0 | 802.6  | 437.4 | 433.2 | 432.2 | 433.2 | 417.6 | 395.5 | 413.4 | 412.3 | 414.4 |
| 40°   | 1818.7 | 830.8  | 413.4 | 408.1 | 409.1 | 409.1 | 389.3 | 383.0 | 414.4 | 417.6 | 418.6 |
| 42.5° | 1970.4 | 866.4  | 397.6 | 380.9 | 385.1 | 385.1 | 374.6 | 367.3 | 389.3 | 368.4 | 365.2 |
| 45°   | 2102.2 | 918.7  | 380.9 | 353.7 | 364.2 | 369.4 | 366.3 | 353.7 | 340.1 | 304.5 | 304.5 |
| 47.5° | 2145.1 | 964.8  | 361.0 | 327.5 | 335.9 | 358.9 | 349.5 | 323.4 | 299.3 | 270.0 | 267.9 |
| 50°   | 2220.5 | 1015.0 | 345.3 | 297.2 | 315.0 | 343.2 | 333.8 | 307.6 | 280.5 | 259.5 | 260.5 |
| 52.5° | 2297.9 | 1072.5 | 316.0 | 261.6 | 283.6 | 330.7 | 330.7 | 301.3 | 259.5 | 244.9 | 242.8 |
| 55°   | 2414.1 | 1070.5 | 263.7 | 214.5 | 253.2 | 311.8 | 317.1 | 270.0 | 232.3 | 220.8 | 220.8 |
| 56°   | 2430.8 | 1022.3 | 237.5 | 200.9 | 239.6 | 306.6 | 307.6 | 261.6 | 221.9 | 209.2 | 209.2 |
| 57.5° | 2305.3 | 922.9  | 208.2 | 184.2 | 222.9 | 297.2 | 298.2 | 254.3 | 213.4 | 195.7 | 193.6 |
| 60°   | 1773.7 | 624.7  | 173.7 | 164.2 | 201.9 | 267.9 | 273.1 | 231.3 | 187.3 | 173.7 | 172.7 |
| 62.5° | 1001.4 | 346.3  | 152.8 | 148.6 | 173.7 | 228.1 | 243.8 | 201.9 | 159.0 | 151.7 | 153.8 |
| 65°   | 457.3  | 190.5  | 128.7 | 120.3 | 140.2 | 175.8 | 196.7 | 166.3 | 130.8 | 122.4 | 122.4 |
| 67.5° | 167.4  | 129.8  | 109.8 | 95.2  | 98.4  | 114.0 | 127.7 | 107.8 | 86.9  | 74.3  | 77.5  |
| 70°   | 119.3  | 108.8  | 96.3  | 82.7  | 76.4  | 74.3  | 73.3  | 60.7  | 42.9  | 33.5  | 35.6  |
| 72.5° | 96.3   | 90.0   | 80.6  | 70.1  | 59.6  | 50.2  | 42.9  | 31.4  | 19.8  | 13.6  | 12.5  |
| 75°   | 69.0   | 65.9   | 58.6  | 50.2  | 41.9  | 35.6  | 29.3  | 19.8  | 10.4  | 5.2   | 5.2   |
| 77.5° | 35.6   | 35.6   | 34.6  | 31.4  | 26.2  | 20.9  | 16.7  | 11.5  | 6.3   | 2.1   | 2.1   |
| 80°   | 27.2   | 29.3   | 30.4  | 27.2  | 24.1  | 18.8  | 13.6  | 8.4   | 4.2   | 1.0   | 1.0   |
| 82.5° | 26.2   | 30.4   | 32.5  | 28.3  | 24.1  | 17.8  | 13.6  | 8.4   | 4.2   | 1.0   | 1.0   |
| 85°   | 6.3    | 6.3    | 9.4   | 10.4  | 13.6  | 14.6  | 11.5  | 7.3   | 3.1   | 1.0   | 1.0   |
| 87.5° | 2.1    | 2.1    | 2.1   | 2.1   | 2.1   | 2.1   | 1.0   | 1.0   | 1.0   | 1.0   | 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)