

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: P324596

Luminaire Tested: **GAN-SA2B-827-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324596  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2B-827-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6372 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

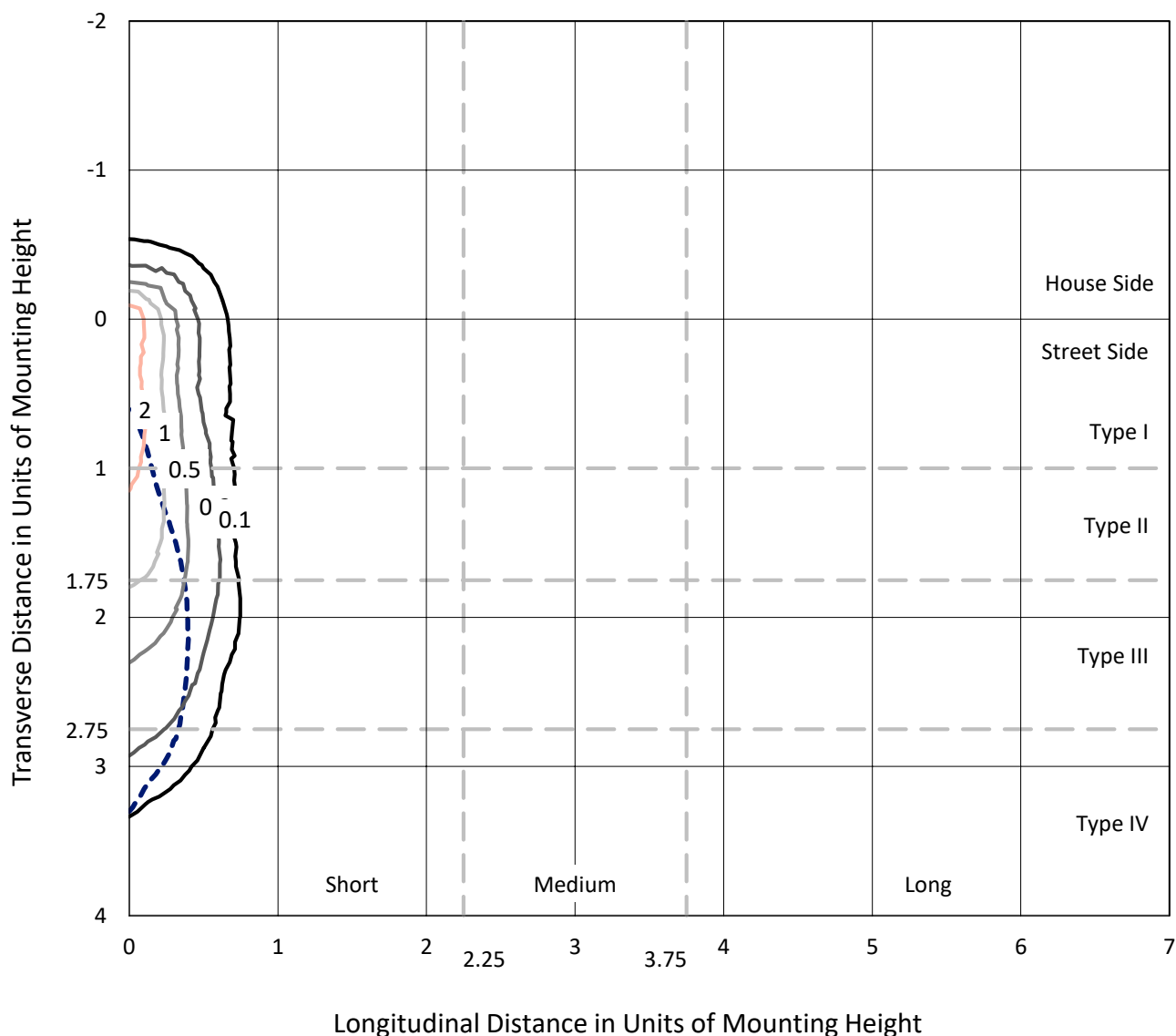
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

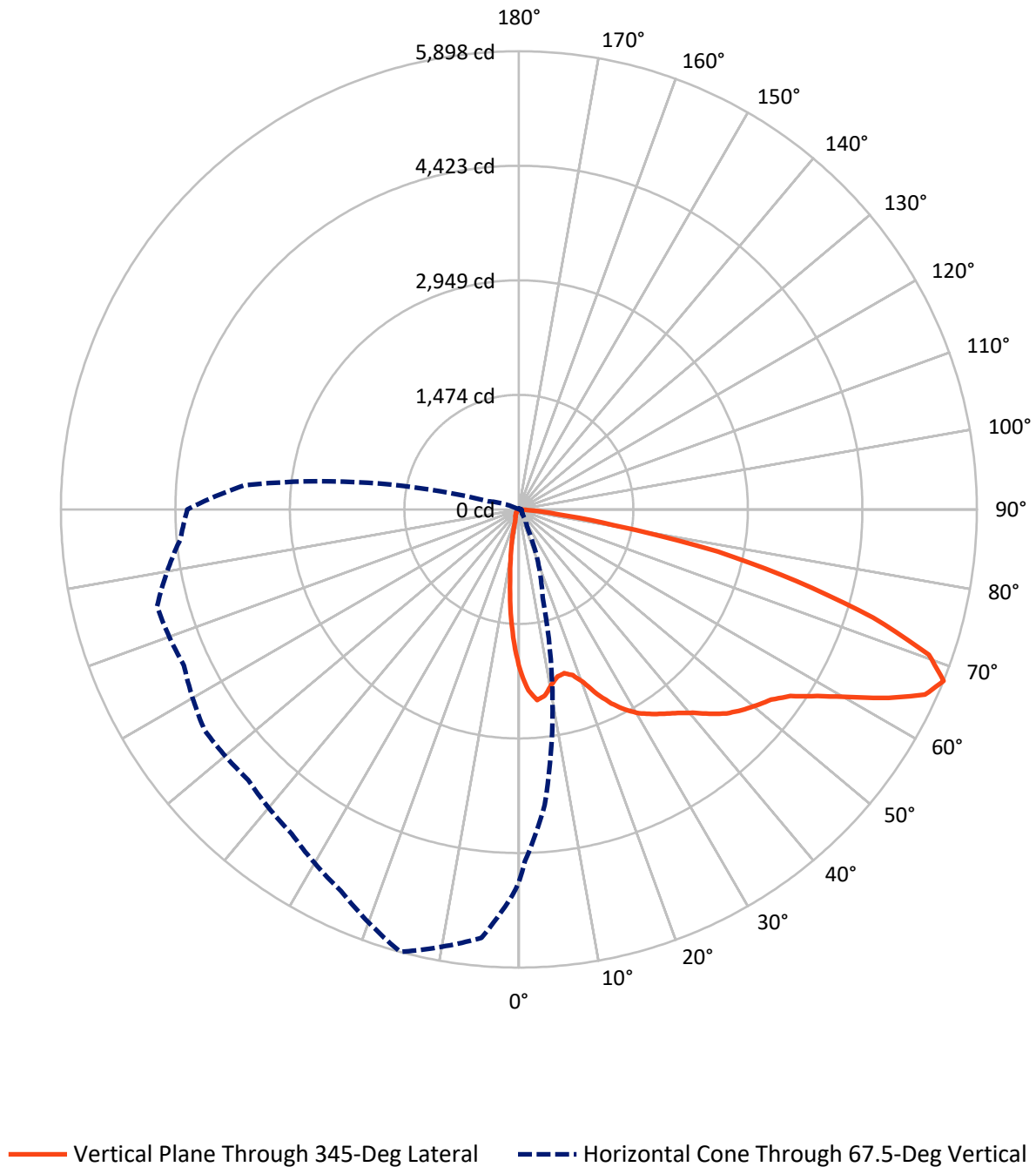
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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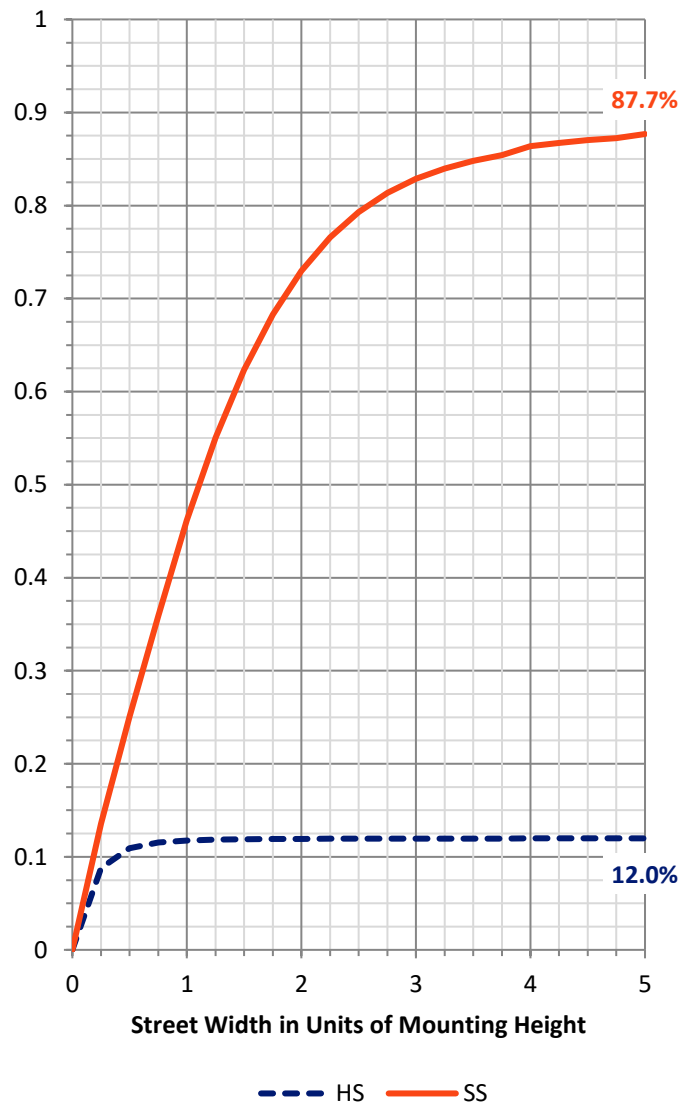
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 771.2    | 0.0    | 771.2  |
|                    | % Fixture | 12.1     | 0.0    | 12.1   |
| <b>Street Side</b> | Lumens    | 5600.8   | 0.0    | 5600.8 |
|                    | % Fixture | 87.9     | 0.0    | 87.9   |
| <b>Total</b>       | Lumens    | 6372.0   | 0.0    | 6372.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 159.3  | 2.5       |
| 10°-20°   | 317.1  | 5.0       |
| 20°-30°   | 450.3  | 7.1       |
| 30°-40°   | 665.1  | 10.4      |
| 40°-50°   | 959.2  | 15.1      |
| 50°-60°   | 1346.5 | 21.1      |
| 60°-70°   | 1569.6 | 24.6      |
| 70°-80°   | 802.4  | 12.6      |
| 80°-90°   | 102.5  | 1.6       |
| 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°    | 6372.0 | 100.0     |
| 0°-180°   | 6372.0 | 100.0     |

**Coefficient of Utilization**



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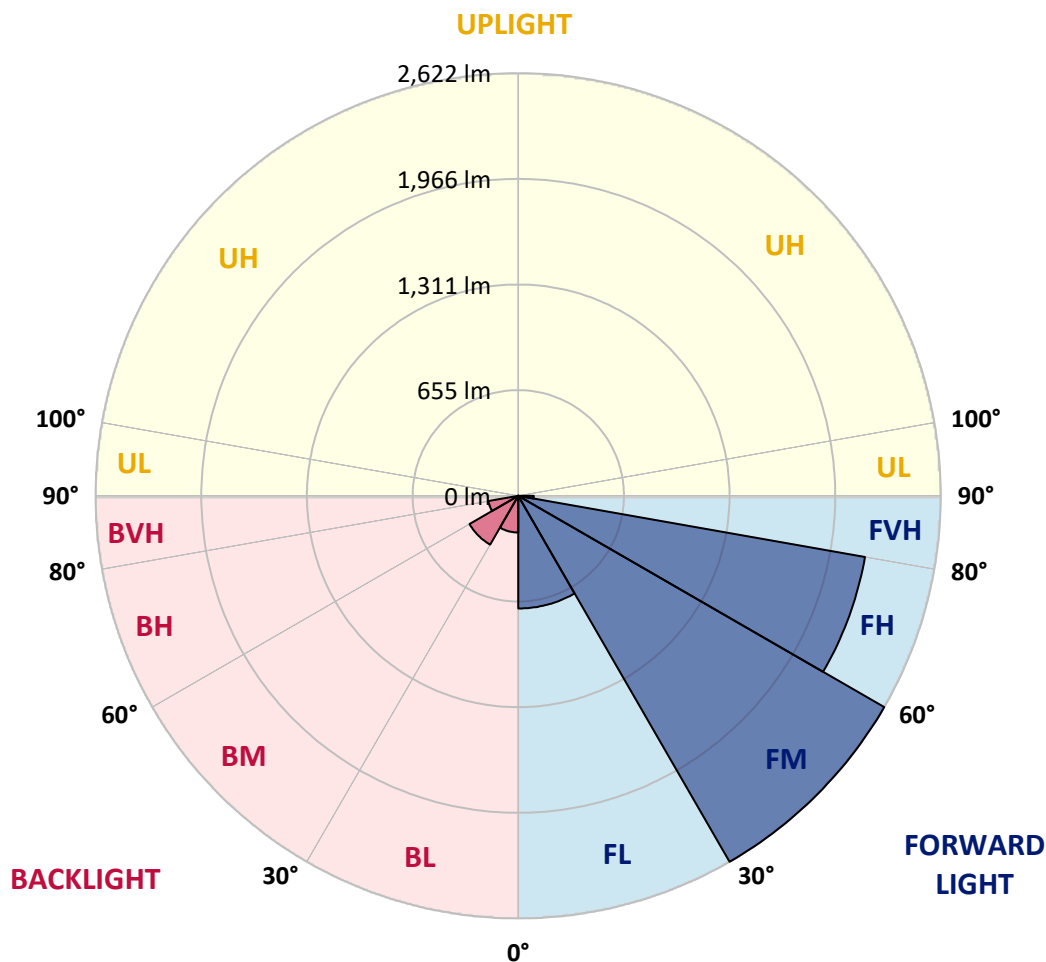
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 698.9  | 11.0      |                         |      |         |
| FM   | (30°-60°)   | 2621.5 | 41.1      |                         |      |         |
| FH   | (60°-80°)   | 2184.1 | 34.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 96.3   | 1.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 227.8  | 3.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 349.2  | 5.5       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 188.0  | 2.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 6.2    | 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-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 |
| 2.5°  | 2272.8 | 2255.3 | 2236.0 | 2172.9 | 2114.3 | 2047.3 | 1992.7 | 1954.6 | 1906.9 | 1845.0 | 1829.3 |
| 5°    | 2256.5 | 2237.8 | 2177.1 | 2036.7 | 1913.9 | 1794.3 | 1679.0 | 1611.4 | 1527.5 | 1442.3 | 1421.2 |
| 7.5°  | 2092.6 | 2073.0 | 1985.4 | 1793.1 | 1627.7 | 1455.0 | 1305.3 | 1212.6 | 1117.8 | 1039.9 | 998.6  |
| 10°   | 1922.0 | 1900.6 | 1802.2 | 1568.8 | 1365.1 | 1209.0 | 1099.1 | 1010.7 | 921.0  | 837.7  | 771.3  |
| 12.5° | 1804.6 | 1776.5 | 1669.7 | 1405.2 | 1227.7 | 1121.8 | 1019.1 | 913.2  | 791.8  | 702.5  | 629.4  |
| 15°   | 1755.4 | 1723.4 | 1610.5 | 1342.1 | 1179.1 | 1054.7 | 921.0  | 790.9  | 648.7  | 546.4  | 479.4  |
| 17.5° | 1793.4 | 1751.8 | 1630.7 | 1337.9 | 1118.1 | 948.8  | 779.7  | 627.0  | 472.7  | 369.2  | 321.5  |
| 20°   | 1922.6 | 1868.0 | 1714.3 | 1336.7 | 1044.2 | 822.9  | 608.6  | 435.9  | 311.5  | 250.6  | 225.5  |
| 22.5° | 2126.1 | 2053.9 | 1834.5 | 1346.3 | 967.8  | 690.7  | 439.5  | 296.1  | 234.0  | 202.3  | 187.5  |
| 25°   | 2371.8 | 2288.2 | 2007.4 | 1380.5 | 900.8  | 562.1  | 319.4  | 234.0  | 197.4  | 174.2  | 161.8  |
| 27.5° | 2605.5 | 2537.5 | 2226.0 | 1429.7 | 848.9  | 458.2  | 259.3  | 198.3  | 168.7  | 153.4  | 143.4  |
| 30°   | 2838.8 | 2753.4 | 2450.3 | 1488.2 | 786.4  | 387.9  | 227.9  | 180.8  | 151.2  | 134.9  | 128.6  |
| 32.5° | 3008.4 | 2937.5 | 2626.0 | 1530.5 | 719.7  | 342.0  | 203.8  | 165.4  | 141.3  | 124.7  | 115.3  |
| 35°   | 3208.0 | 3127.7 | 2776.6 | 1539.8 | 676.8  | 313.0  | 183.2  | 148.8  | 122.6  | 107.8  | 97.8   |
| 37.5° | 3423.5 | 3323.6 | 2950.5 | 1519.3 | 643.3  | 298.9  | 167.8  | 141.3  | 114.4  | 99.3   | 88.8   |
| 40°   | 3662.0 | 3549.1 | 3117.4 | 1489.7 | 610.4  | 294.0  | 156.1  | 135.5  | 108.1  | 92.7   | 81.8   |
| 42.5° | 3913.2 | 3780.0 | 3262.0 | 1458.6 | 589.6  | 277.4  | 154.9  | 129.8  | 103.2  | 86.6   | 75.8   |
| 45°   | 4124.2 | 3989.2 | 3410.5 | 1448.4 | 574.8  | 259.3  | 160.0  | 125.9  | 99.9   | 81.8   | 71.2   |
| 47.5° | 4292.3 | 4164.6 | 3562.7 | 1471.3 | 566.3  | 242.7  | 145.8  | 131.0  | 98.1   | 77.6   | 67.3   |
| 50°   | 4493.1 | 4348.5 | 3777.0 | 1539.8 | 553.9  | 226.1  | 131.9  | 150.0  | 98.1   | 74.9   | 64.0   |
| 52.5° | 4744.8 | 4601.7 | 4016.1 | 1646.1 | 529.2  | 203.2  | 118.6  | 150.3  | 99.0   | 71.2   | 59.8   |
| 55°   | 5061.5 | 4957.6 | 4357.5 | 1762.6 | 489.6  | 169.3  | 102.6  | 129.2  | 95.4   | 64.6   | 55.8   |
| 57.5° | 5365.2 | 5280.3 | 4668.7 | 1842.3 | 436.8  | 132.2  | 89.4   | 104.1  | 87.2   | 56.8   | 49.8   |
| 59°   | 5448.2 | 5355.5 | 4782.8 | 1845.9 | 397.3  | 115.3  | 82.7   | 86.0   | 85.4   | 53.1   | 46.2   |
| 60°   | 5448.2 | 5349.8 | 4815.8 | 1826.6 | 368.6  | 106.0  | 78.5   | 76.7   | 89.1   | 50.7   | 44.1   |
| 62.5° | 5349.5 | 5211.2 | 4708.9 | 1695.9 | 300.7  | 90.3   | 68.5   | 63.4   | 80.0   | 45.6   | 38.9   |
| 65°   | 5144.2 | 4942.8 | 4344.8 | 1459.5 | 268.1  | 82.7   | 59.2   | 51.9   | 55.5   | 40.1   | 34.1   |
| 67.5° | 4801.9 | 4529.0 | 3819.9 | 1179.1 | 255.1  | 80.6   | 51.0   | 44.1   | 42.0   | 34.4   | 29.9   |
| 70°   | 4199.0 | 3896.3 | 3182.6 | 927.0  | 243.9  | 79.7   | 42.9   | 37.1   | 33.8   | 29.0   | 25.4   |
| 72.5° | 3056.1 | 2740.4 | 2259.5 | 724.8  | 237.3  | 81.5   | 34.4   | 31.1   | 27.8   | 22.6   | 19.6   |
| 75°   | 1748.1 | 1541.4 | 1270.0 | 478.8  | 202.3  | 77.9   | 26.6   | 26.0   | 19.9   | 16.3   | 13.6   |
| 77.5° | 903.2  | 875.7  | 761.0  | 183.8  | 96.9   | 34.1   | 17.5   | 15.1   | 11.8   | 10.0   | 8.2    |
| 80°   | 389.7  | 385.5  | 333.6  | 53.1   | 25.7   | 19.0   | 10.0   | 6.3    | 5.4    | 4.2    | 3.3    |
| 82.5° | 134.6  | 134.6  | 118.6  | 17.8   | 11.5   | 9.4    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 27.2   | 30.5   | 21.4   | 0.0    | 3.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 |
| 2.5°  | 1810.3 | 1773.8 | 1771.4 | 1748.4 | 1719.8 | 1706.8 | 1699.2 | 1712.5 | 1728.8 | 1730.6 | 1755.1 |
| 5°    | 1405.2 | 1366.9 | 1382.9 | 1342.1 | 1350.3 | 1342.1 | 1328.8 | 1331.3 | 1338.5 | 1315.9 | 1343.9 |
| 7.5°  | 986.8  | 957.8  | 976.3  | 965.4  | 979.9  | 985.6  | 977.5  | 965.4  | 929.8  | 925.5  | 950.0  |
| 10°   | 743.8  | 710.9  | 691.3  | 670.8  | 675.3  | 684.6  | 681.6  | 672.9  | 650.2  | 651.4  | 675.0  |
| 12.5° | 597.7  | 560.9  | 521.9  | 471.5  | 459.1  | 466.1  | 459.1  | 454.0  | 432.3  | 434.1  | 454.9  |
| 15°   | 453.4  | 423.2  | 382.5  | 342.0  | 320.0  | 322.1  | 302.8  | 289.2  | 275.6  | 259.3  | 272.0  |
| 17.5° | 306.1  | 287.7  | 275.6  | 263.5  | 237.3  | 231.2  | 206.8  | 180.5  | 170.3  | 162.7  | 168.1  |
| 20°   | 216.7  | 206.8  | 202.0  | 201.3  | 186.3  | 178.7  | 154.9  | 138.6  | 133.4  | 131.9  | 135.2  |
| 22.5° | 181.1  | 173.9  | 166.9  | 163.0  | 155.5  | 146.7  | 128.6  | 120.4  | 116.8  | 115.0  | 117.4  |
| 25°   | 157.6  | 152.1  | 144.9  | 138.3  | 135.2  | 125.9  | 112.9  | 106.9  | 104.4  | 102.6  | 103.8  |
| 27.5° | 140.1  | 135.2  | 126.8  | 122.6  | 120.1  | 112.0  | 100.8  | 96.0   | 93.9   | 93.3   | 93.0   |
| 30°   | 126.2  | 121.7  | 113.8  | 109.0  | 104.7  | 97.5   | 90.9   | 86.0   | 83.9   | 83.3   | 82.7   |
| 32.5° | 112.3  | 108.7  | 103.5  | 98.7   | 94.2   | 87.5   | 81.8   | 77.9   | 74.6   | 74.0   | 73.7   |
| 35°   | 94.8   | 91.2   | 88.4   | 88.1   | 83.9   | 77.6   | 73.4   | 68.2   | 65.5   | 64.6   | 64.9   |
| 37.5° | 84.2   | 79.4   | 73.4   | 75.5   | 74.3   | 69.7   | 64.0   | 58.9   | 56.1   | 55.5   | 55.5   |
| 40°   | 77.6   | 72.4   | 65.5   | 61.9   | 65.5   | 64.6   | 55.5   | 50.4   | 47.7   | 47.4   | 46.8   |
| 42.5° | 71.2   | 66.1   | 58.3   | 52.2   | 54.0   | 56.8   | 48.0   | 43.2   | 40.5   | 39.8   | 38.9   |
| 45°   | 66.7   | 61.3   | 52.5   | 45.6   | 42.0   | 47.7   | 41.1   | 35.0   | 33.5   | 32.3   | 31.7   |
| 47.5° | 62.5   | 57.4   | 47.4   | 39.5   | 33.5   | 34.4   | 32.9   | 28.7   | 26.9   | 25.7   | 25.4   |
| 50°   | 58.9   | 53.4   | 42.9   | 33.8   | 27.8   | 25.4   | 26.6   | 22.6   | 21.1   | 19.9   | 19.3   |
| 52.5° | 54.6   | 49.5   | 38.0   | 29.3   | 23.2   | 19.9   | 20.2   | 17.8   | 16.3   | 15.4   | 15.1   |
| 55°   | 51.3   | 46.2   | 34.1   | 25.7   | 20.5   | 16.3   | 14.5   | 13.9   | 13.0   | 12.4   | 12.1   |
| 57.5° | 46.8   | 42.0   | 30.2   | 21.7   | 17.5   | 13.3   | 11.2   | 11.2   | 10.9   | 10.3   | 10.0   |
| 59°   | 44.1   | 39.8   | 27.8   | 19.6   | 16.0   | 11.5   | 10.0   | 10.3   | 10.0   | 9.4    | 9.1    |
| 60°   | 42.0   | 38.0   | 26.0   | 18.1   | 15.1   | 10.6   | 9.1    | 9.7    | 9.4    | 8.8    | 8.5    |
| 62.5° | 37.1   | 34.4   | 22.3   | 15.1   | 13.3   | 8.5    | 7.5    | 8.2    | 8.2    | 7.8    | 7.5    |
| 65°   | 32.6   | 29.6   | 19.0   | 12.7   | 12.4   | 7.2    | 6.0    | 7.2    | 7.5    | 6.9    | 6.3    |
| 67.5° | 28.4   | 25.4   | 16.6   | 10.3   | 11.5   | 5.7    | 4.5    | 6.0    | 8.2    | 6.3    | 5.7    |
| 70°   | 24.1   | 21.1   | 13.0   | 8.2    | 12.1   | 3.9    | 3.6    | 5.4    | 9.7    | 6.9    | 5.4    |
| 72.5° | 18.7   | 16.3   | 9.1    | 6.0    | 13.0   | 2.7    | 2.7    | 4.5    | 10.9   | 7.5    | 5.1    |
| 75°   | 13.0   | 10.6   | 5.4    | 3.6    | 10.6   | 1.8    | 1.8    | 4.2    | 10.3   | 6.9    | 4.8    |
| 77.5° | 7.5    | 5.7    | 1.8    | 0.3    | 5.4    | 0.0    | 0.3    | 3.0    | 7.2    | 4.2    | 2.1    |
| 80°   | 2.7    | 1.2    | 0.0    | 0.0    | 3.3    | 0.0    | 0.0    | 0.0    | 0.6    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 |
| 2.5°  | 1761.4 | 1802.2 | 1838.7 | 1893.9 | 1959.4 | 2034.9 | 2099.8 | 2169.5 | 2235.1 | 2262.2 | 2280.9 |
| 5°    | 1349.7 | 1400.1 | 1458.9 | 1540.1 | 1648.2 | 1781.3 | 1906.0 | 2047.0 | 2198.5 | 2274.3 | 2345.5 |
| 7.5°  | 954.2  | 1005.5 | 1078.6 | 1164.9 | 1295.6 | 1454.1 | 1617.1 | 1811.8 | 2017.1 | 2136.9 | 2255.0 |
| 10°   | 686.2  | 749.2  | 817.5  | 935.5  | 1068.3 | 1218.7 | 1386.5 | 1603.8 | 1832.7 | 1965.5 | 2107.7 |
| 12.5° | 467.0  | 538.8  | 642.1  | 774.3  | 930.4  | 1077.7 | 1223.5 | 1430.9 | 1696.5 | 1828.1 | 1980.6 |
| 15°   | 280.1  | 320.0  | 429.3  | 582.3  | 773.7  | 957.2  | 1116.9 | 1324.9 | 1608.1 | 1769.3 | 1927.8 |
| 17.5° | 172.7  | 191.1  | 250.6  | 376.1  | 577.2  | 809.3  | 1028.2 | 1289.0 | 1620.7 | 1817.0 | 1986.6 |
| 20°   | 137.7  | 144.9  | 163.9  | 222.2  | 382.5  | 646.3  | 928.3  | 1281.7 | 1724.3 | 1965.8 | 2147.8 |
| 22.5° | 119.5  | 126.5  | 139.2  | 161.5  | 240.6  | 483.9  | 833.5  | 1288.4 | 1872.8 | 2188.9 | 2401.4 |
| 25°   | 105.4  | 111.4  | 123.5  | 141.9  | 176.3  | 340.8  | 732.0  | 1318.0 | 2066.3 | 2465.7 | 2691.5 |
| 27.5° | 94.2   | 99.3   | 110.5  | 127.4  | 151.2  | 237.9  | 617.0  | 1353.9 | 2295.7 | 2748.8 | 2971.6 |
| 30°   | 83.9   | 88.4   | 98.4   | 114.1  | 131.3  | 182.9  | 490.8  | 1378.3 | 2525.5 | 2971.6 | 3171.8 |
| 32.5° | 75.2   | 78.5   | 87.5   | 100.8  | 114.1  | 145.8  | 373.1  | 1374.4 | 2696.0 | 3157.0 | 3315.8 |
| 35°   | 66.1   | 69.4   | 77.3   | 88.8   | 99.3   | 120.4  | 293.4  | 1301.1 | 2844.5 | 3349.3 | 3480.6 |
| 37.5° | 56.1   | 60.4   | 67.9   | 78.2   | 85.4   | 106.0  | 237.3  | 1212.6 | 2995.2 | 3569.0 | 3664.4 |
| 40°   | 47.7   | 51.9   | 58.6   | 69.7   | 74.3   | 100.5  | 182.3  | 1104.8 | 3164.5 | 3814.7 | 3866.1 |
| 42.5° | 39.5   | 43.5   | 50.4   | 60.1   | 70.0   | 86.6   | 134.9  | 981.7  | 3327.2 | 4024.9 | 4049.9 |
| 45°   | 32.0   | 35.9   | 43.2   | 52.8   | 74.9   | 71.8   | 104.4  | 849.8  | 3458.5 | 4199.6 | 4207.8 |
| 47.5° | 25.4   | 29.0   | 36.5   | 49.8   | 69.7   | 57.4   | 74.6   | 746.2  | 3568.7 | 4336.1 | 4314.6 |
| 50°   | 19.6   | 22.6   | 30.5   | 57.1   | 61.0   | 47.4   | 56.4   | 711.8  | 3667.4 | 4420.6 | 4365.1 |
| 52.5° | 15.4   | 18.1   | 25.1   | 53.4   | 47.4   | 39.2   | 47.4   | 744.1  | 3802.7 | 4490.6 | 4393.4 |
| 55°   | 12.4   | 15.1   | 19.6   | 30.5   | 32.3   | 33.2   | 40.5   | 774.3  | 4036.0 | 4654.9 | 4561.0 |
| 57.5° | 10.3   | 13.0   | 16.0   | 21.4   | 24.5   | 28.1   | 35.9   | 777.6  | 4311.0 | 4927.7 | 4839.0 |
| 59°   | 9.4    | 11.8   | 14.5   | 19.0   | 21.4   | 25.7   | 33.8   | 759.5  | 4407.9 | 5027.1 | 4982.7 |
| 60°   | 8.8    | 11.2   | 13.6   | 17.5   | 19.9   | 24.1   | 32.6   | 742.3  | 4412.2 | 5023.4 | 5044.0 |
| 62.5° | 7.5    | 10.0   | 12.1   | 14.8   | 16.9   | 20.5   | 29.3   | 678.6  | 4233.4 | 4858.9 | 5007.1 |
| 65°   | 6.6    | 8.8    | 10.9   | 12.7   | 14.5   | 18.4   | 26.6   | 562.4  | 3928.3 | 4593.6 | 4755.1 |
| 67.5° | 6.0    | 7.5    | 10.0   | 11.2   | 13.0   | 16.3   | 23.5   | 400.9  | 3547.0 | 4269.1 | 4373.8 |
| 70°   | 5.4    | 7.2    | 9.1    | 10.3   | 11.8   | 14.2   | 20.2   | 230.3  | 2995.2 | 3793.9 | 3868.5 |
| 72.5° | 5.1    | 6.9    | 8.2    | 9.7    | 10.6   | 12.7   | 18.4   | 108.4  | 2193.1 | 3039.2 | 3233.9 |
| 75°   | 4.5    | 6.3    | 7.5    | 9.1    | 10.0   | 11.5   | 15.7   | 51.9   | 1458.6 | 2199.4 | 2420.7 |
| 77.5° | 2.7    | 5.1    | 6.9    | 8.2    | 8.8    | 10.0   | 13.0   | 29.9   | 931.0  | 1522.3 | 1793.1 |
| 80°   | 0.0    | 1.8    | 5.1    | 6.9    | 7.5    | 8.5    | 10.0   | 23.5   | 498.1  | 869.7  | 1043.9 |
| 82.5° | 0.0    | 0.0    | 3.6    | 5.4    | 5.1    | 5.7    | 7.5    | 14.8   | 224.6  | 568.4  | 640.6  |
| 85°   | 0.0    | 0.0    | 1.2    | 4.2    | 3.6    | 2.7    | 5.1    | 5.1    | 49.2   | 287.7  | 358.9  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.3    | 1.8    | 1.2    | 2.1    | 0.6    | 0.3    | 21.4   | 86.9   |
| 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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|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 359°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 | 2075.7 |
| 2.5°  | 2346.4 | 2368.8 | 2406.5 | 2424.3 | 2415.6 | 2378.4 | 2334.1 | 2288.8 | 2262.2 | 2272.8 |
| 5°    | 2490.7 | 2605.8 | 2672.2 | 2694.2 | 2657.4 | 2574.1 | 2465.1 | 2321.4 | 2270.4 | 2256.5 |
| 7.5°  | 2490.7 | 2707.2 | 2844.2 | 2868.4 | 2786.3 | 2623.0 | 2418.6 | 2194.3 | 2119.7 | 2092.6 |
| 10°   | 2403.2 | 2697.8 | 2888.9 | 2927.2 | 2812.5 | 2568.3 | 2294.5 | 2038.5 | 1950.1 | 1922.0 |
| 12.5° | 2304.5 | 2621.8 | 2823.1 | 2875.9 | 2781.7 | 2514.0 | 2208.5 | 1933.2 | 1829.0 | 1804.6 |
| 15°   | 2243.8 | 2528.2 | 2694.8 | 2733.1 | 2693.3 | 2482.3 | 2188.0 | 1901.5 | 1778.9 | 1755.4 |
| 17.5° | 2265.5 | 2455.7 | 2515.8 | 2538.1 | 2565.0 | 2471.1 | 2243.8 | 1970.9 | 1815.8 | 1793.4 |
| 20°   | 2347.4 | 2379.3 | 2348.3 | 2376.3 | 2448.8 | 2482.0 | 2376.9 | 2138.8 | 1952.5 | 1922.6 |
| 22.5° | 2486.2 | 2339.8 | 2252.6 | 2263.7 | 2351.9 | 2517.9 | 2580.4 | 2378.4 | 2163.5 | 2126.1 |
| 25°   | 2648.0 | 2371.8 | 2199.4 | 2189.5 | 2280.0 | 2565.3 | 2766.3 | 2639.3 | 2413.2 | 2371.8 |
| 27.5° | 2851.5 | 2443.6 | 2188.6 | 2178.6 | 2255.0 | 2609.7 | 2920.9 | 2897.1 | 2676.1 | 2605.5 |
| 30°   | 3008.4 | 2514.3 | 2220.9 | 2197.9 | 2280.0 | 2640.5 | 3045.0 | 3115.9 | 2885.6 | 2838.8 |
| 32.5° | 3121.0 | 2597.6 | 2273.4 | 2240.2 | 2350.7 | 2693.6 | 3140.7 | 3316.4 | 3079.4 | 3008.4 |
| 35°   | 3206.8 | 2688.2 | 2358.2 | 2303.6 | 2447.9 | 2774.2 | 3230.3 | 3529.8 | 3285.6 | 3208.0 |
| 37.5° | 3287.1 | 2815.3 | 2490.7 | 2425.5 | 2600.3 | 2904.0 | 3325.1 | 3771.9 | 3516.2 | 3423.5 |
| 40°   | 3399.1 | 2959.2 | 2695.1 | 2637.1 | 2856.6 | 3080.9 | 3443.4 | 4024.2 | 3778.5 | 3662.0 |
| 42.5° | 3511.1 | 3113.8 | 2904.3 | 2920.0 | 3176.3 | 3295.8 | 3596.2 | 4291.1 | 4037.5 | 3913.2 |
| 45°   | 3613.4 | 3273.2 | 3202.3 | 3274.7 | 3473.0 | 3531.6 | 3748.0 | 4445.4 | 4244.3 | 4124.2 |
| 47.5° | 3704.6 | 3472.4 | 3498.4 | 3691.3 | 3810.5 | 3745.0 | 3861.5 | 4578.5 | 4398.3 | 4292.3 |
| 50°   | 3810.5 | 3730.2 | 3888.7 | 4161.6 | 4199.0 | 3938.2 | 3964.8 | 4736.1 | 4578.2 | 4493.1 |
| 52.5° | 3926.4 | 4001.9 | 4321.0 | 4561.6 | 4549.5 | 4148.0 | 4068.6 | 4912.7 | 4824.8 | 4744.8 |
| 55°   | 4058.1 | 4221.4 | 4701.6 | 4935.9 | 4925.6 | 4382.3 | 4240.7 | 5130.9 | 5133.9 | 5061.5 |
| 57.5° | 4253.4 | 4410.3 | 4960.0 | 5238.7 | 5255.9 | 4652.7 | 4532.3 | 5375.4 | 5413.5 | 5365.2 |
| 59°   | 4393.4 | 4532.9 | 5062.4 | 5365.2 | 5435.2 | 4861.9 | 4745.4 | 5517.3 | 5492.2 | 5448.2 |
| 60°   | 4497.3 | 4610.8 | 5113.1 | 5431.3 | 5539.3 | 5003.8 | 4902.7 | 5600.6 | 5501.6 | 5448.2 |
| 62.5° | 4754.2 | 4780.4 | 5204.6 | 5506.1 | 5659.2 | 5319.0 | 5345.2 | 5742.5 | 5436.7 | 5349.5 |
| 65°   | 4874.0 | 4887.6 | 5203.4 | 5372.1 | 5543.3 | 5564.4 | 5746.7 | 5746.7 | 5278.2 | 5144.2 |
| 67.5° | 4823.9 | 4758.4 | 4945.3 | 4927.7 | 5098.6 | 5418.6 | 5897.7 | 5536.0 | 4975.1 | 4801.9 |
| 70°   | 4416.4 | 4164.3 | 4081.3 | 4088.8 | 4219.6 | 4713.1 | 5598.8 | 4916.0 | 4401.6 | 4199.0 |
| 72.5° | 3674.7 | 3070.0 | 2865.1 | 3099.0 | 3133.1 | 3622.2 | 4771.4 | 3702.1 | 3246.0 | 3056.1 |
| 75°   | 2955.6 | 2164.1 | 1830.8 | 2077.8 | 2135.7 | 2650.7 | 3691.0 | 2305.7 | 1896.1 | 1748.1 |
| 77.5° | 2123.4 | 1553.4 | 1313.7 | 1296.5 | 1371.4 | 1681.1 | 2619.0 | 1160.4 | 967.8  | 903.2  |
| 80°   | 1206.3 | 1022.4 | 1100.9 | 1038.7 | 1076.5 | 1051.1 | 1244.3 | 509.0  | 416.9  | 389.7  |
| 82.5° | 728.1  | 604.3  | 654.5  | 544.9  | 689.5  | 600.4  | 479.4  | 163.0  | 141.6  | 134.6  |
| 85°   | 473.6  | 330.2  | 172.1  | 115.3  | 237.6  | 383.7  | 107.2  | 44.4   | 34.1   | 27.2   |
| 87.5° | 163.3  | 84.2   | 8.5    | 3.6    | 25.4   | 71.5   | 3.9    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)