

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: P324450

Luminaire Tested: **GAN-SA6C-730-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324450  
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-SA6C-730-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1050mA 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: 28557 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

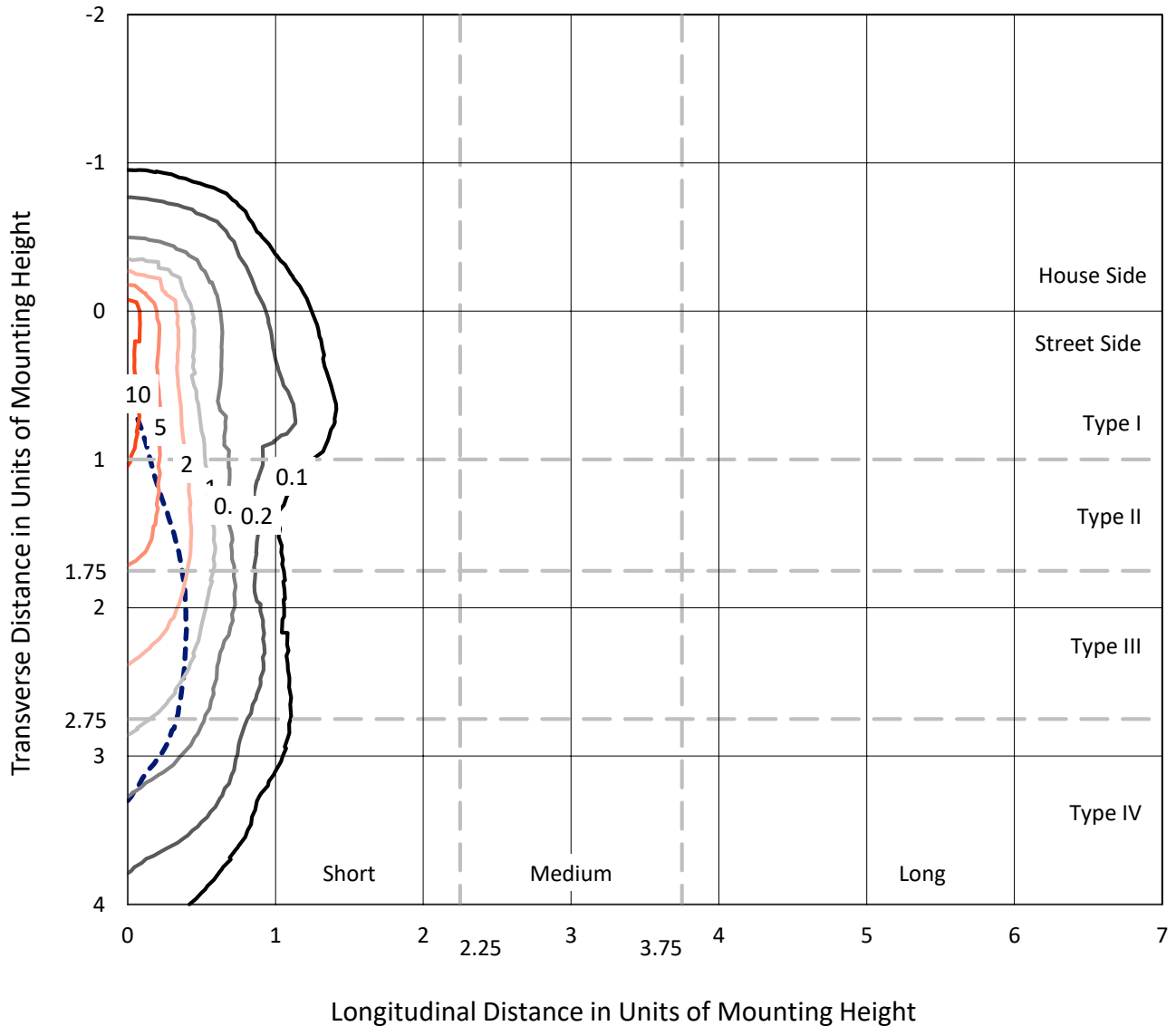
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

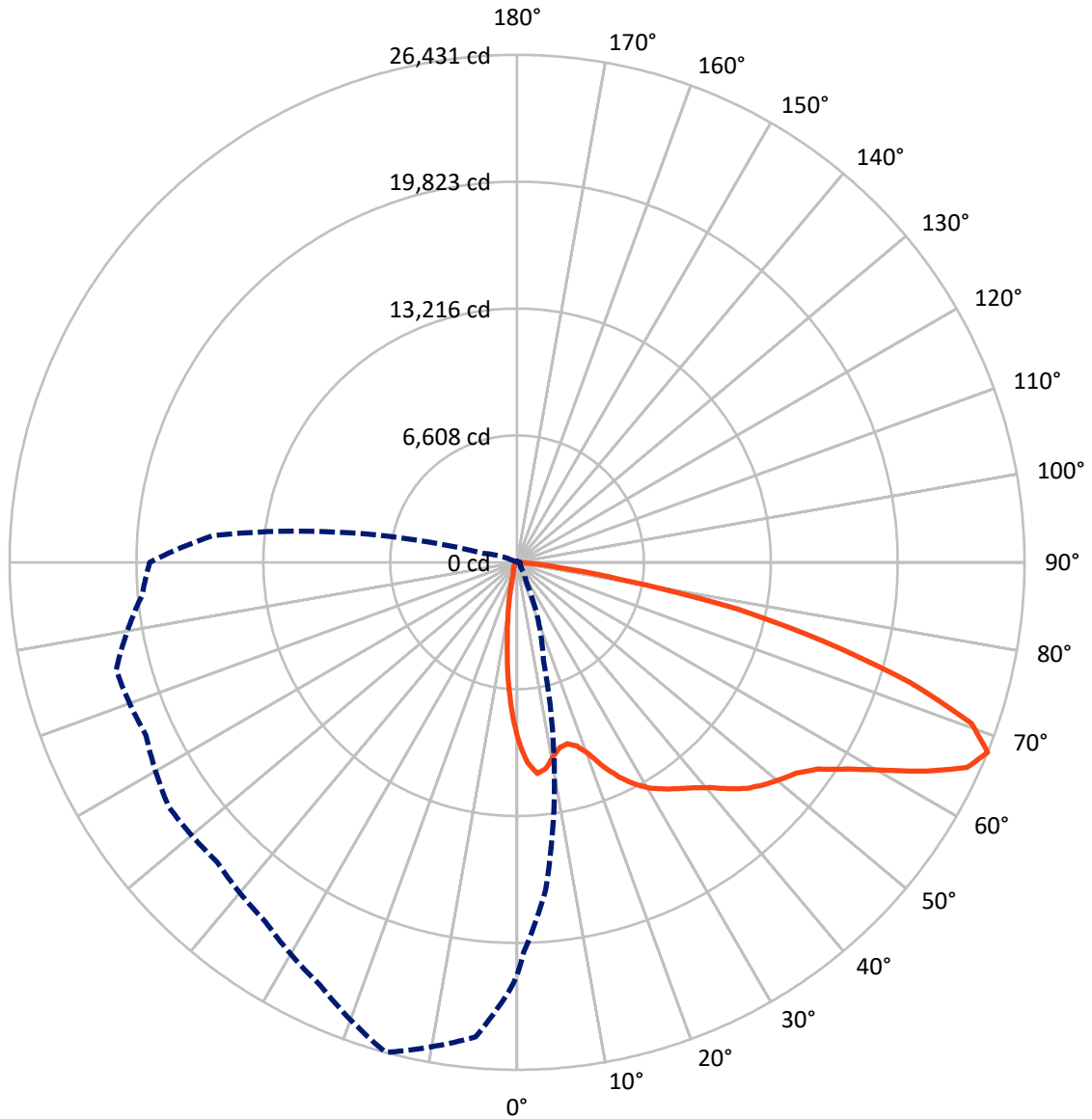
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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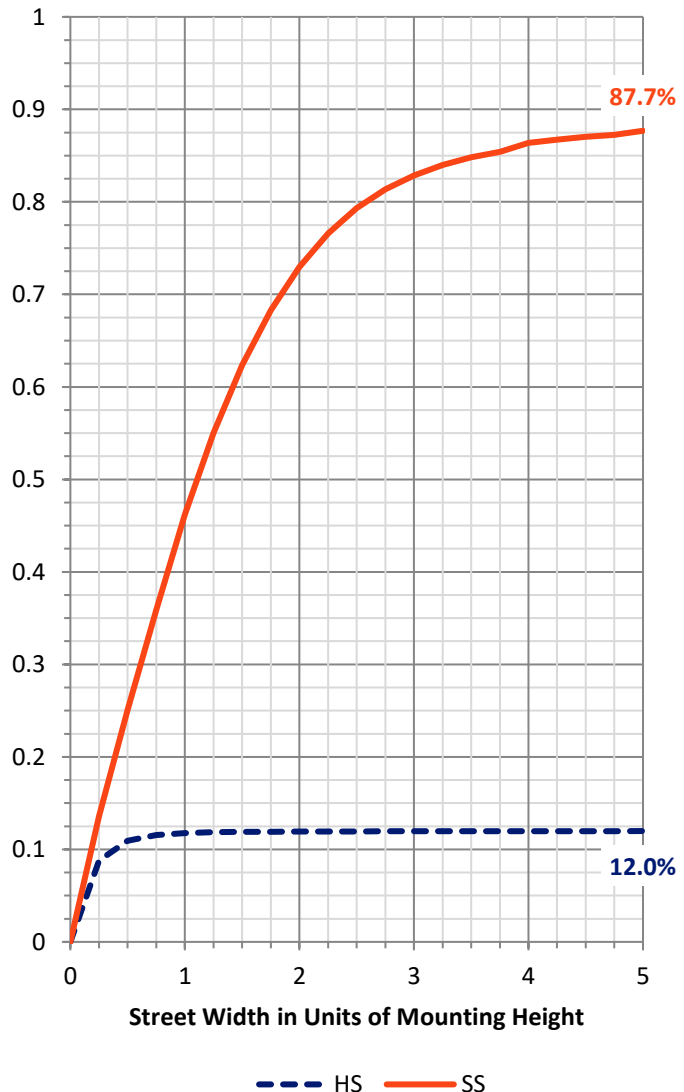
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3456.3   | 0.0    | 3456.3  |
|                    | % Fixture | 12.1     | 0.0    | 12.1    |
| <b>Street Side</b> | Lumens    | 25100.7  | 0.0    | 25100.7 |
|                    | % Fixture | 87.9     | 0.0    | 87.9    |
| <b>Total</b>       | Lumens    | 28557.0  | 0.0    | 28557.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 714.0   | 2.5       |
| 10°-20°   | 1421.1  | 5.0       |
| 20°-30°   | 2018.0  | 7.1       |
| 30°-40°   | 2980.7  | 10.4      |
| 40°-50°   | 4298.7  | 15.1      |
| 50°-60°   | 6034.5  | 21.1      |
| 60°-70°   | 7034.5  | 24.6      |
| 70°-80°   | 3596.2  | 12.6      |
| 80°-90°   | 459.3   | 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°    | 28557.0 | 100.0     |
| 0°-180°   | 28557.0 | 100.0     |

**Coefficient of Utilization**

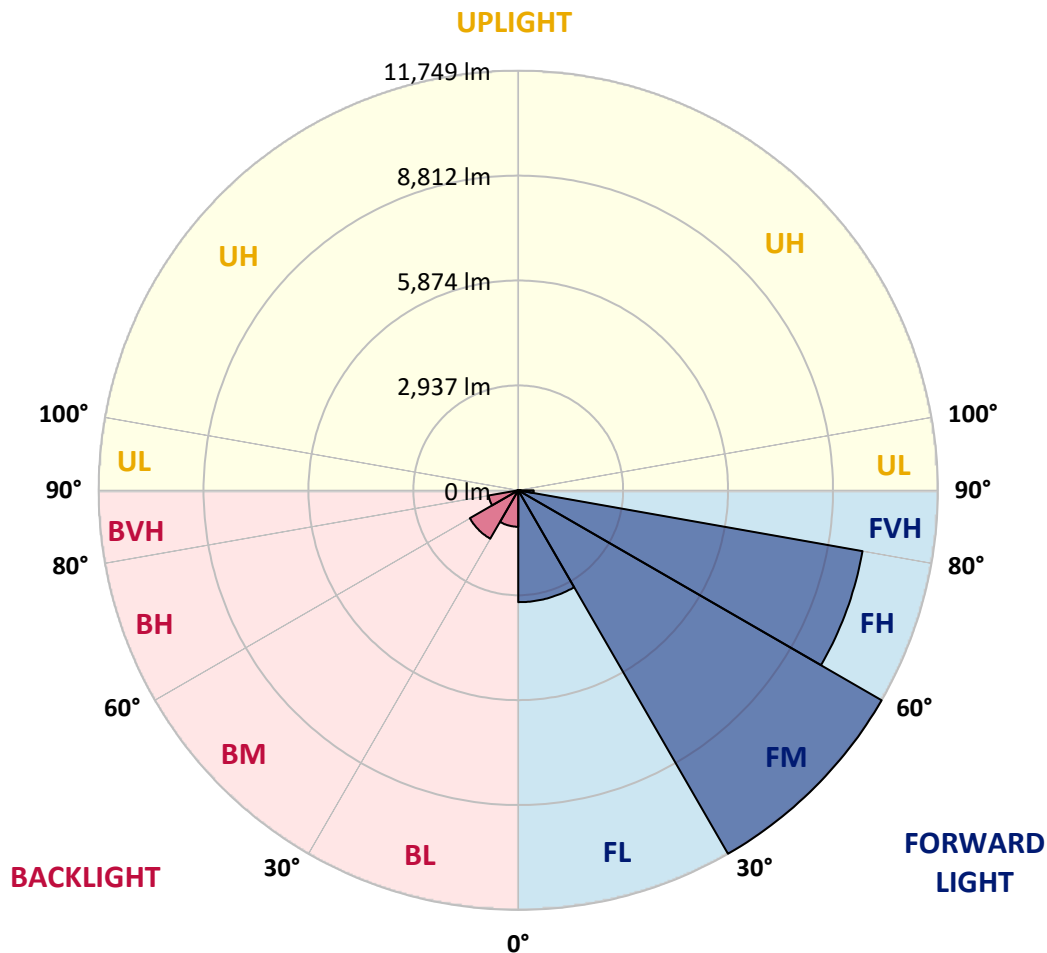


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3132.1  | 11.0      |                         |      |          |
| FM (30°-60°)   | 11748.8 | 41.1      |                         |      |          |
| FH (60°-80°)   | 9788.3  | 34.3      |                         |      | G4/12000 |
| FVH (80°-90°)  | 431.4   | 1.5       |                         |      | G3/500   |
| BL (0°-30°)    | 1020.9  | 3.6       | B3/2500                 |      |          |
| BM (30°-60°)   | 1565.1  | 5.5       | B2/2500                 |      |          |
| BH (60°-80°)   | 842.4   | 2.9       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 27.9    | 0.1       |                         |      | G1/100   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 9302.4  | 9302.4  | 9302.4  | 9302.4 | 9302.4 | 9302.4 | 9302.4 | 9302.4 | 9302.4 | 9302.4 | 9302.4 |
| 2.5°  | 10185.8 | 10107.4 | 10020.8 | 9738.0 | 9475.6 | 9175.2 | 8930.3 | 8759.9 | 8546.1 | 8268.8 | 8198.4 |
| 5°    | 10112.8 | 10028.9 | 9757.0  | 9127.9 | 8577.2 | 8041.5 | 7524.7 | 7221.7 | 6845.6 | 6464.1 | 6369.4 |
| 7.5°  | 9378.2  | 9290.2  | 8897.9  | 8036.1 | 7294.7 | 6520.9 | 5849.8 | 5434.5 | 5009.7 | 4660.7 | 4475.3 |
| 10°   | 8613.8  | 8517.7  | 8076.7  | 7030.9 | 6117.7 | 5418.3 | 4925.8 | 4529.4 | 4127.6 | 3754.2 | 3456.6 |
| 12.5° | 8087.5  | 7961.7  | 7482.8  | 6297.6 | 5502.2 | 5027.3 | 4567.3 | 4092.5 | 3548.6 | 3148.1 | 2820.8 |
| 15°   | 7867.0  | 7723.6  | 7217.6  | 6014.9 | 5284.3 | 4727.0 | 4127.6 | 3544.5 | 2907.3 | 2448.7 | 2148.4 |
| 17.5° | 8037.4  | 7850.8  | 7308.2  | 5996.0 | 5011.1 | 4252.1 | 3494.5 | 2809.9 | 2118.6 | 1654.6 | 1440.8 |
| 20°   | 8616.5  | 8371.6  | 7683.0  | 5990.5 | 4679.6 | 3687.9 | 2727.4 | 1953.6 | 1396.2 | 1122.9 | 1010.6 |
| 22.5° | 9528.3  | 9205.0  | 8221.4  | 6033.8 | 4337.3 | 3095.4 | 1969.8 | 1327.2 | 1048.5 | 906.4  | 840.1  |
| 25°   | 10629.6 | 10254.8 | 8996.6  | 6186.7 | 4037.0 | 2519.1 | 1431.3 | 1048.5 | 884.8  | 780.6  | 725.1  |
| 27.5° | 11676.7 | 11372.3 | 9976.1  | 6407.2 | 3804.3 | 2053.7 | 1162.1 | 888.8  | 756.3  | 687.3  | 642.6  |
| 30°   | 12722.5 | 12339.6 | 10981.3 | 6669.7 | 3524.2 | 1738.4 | 1021.4 | 810.4  | 677.8  | 604.7  | 576.3  |
| 32.5° | 13482.8 | 13164.9 | 11768.7 | 6859.1 | 3225.3 | 1532.8 | 913.2  | 741.4  | 633.1  | 558.7  | 516.8  |
| 35°   | 14377.0 | 14017.2 | 12443.8 | 6901.0 | 3033.2 | 1402.9 | 821.2  | 667.0  | 549.3  | 483.0  | 438.3  |
| 37.5° | 15343.0 | 14895.2 | 13223.0 | 6809.0 | 2883.0 | 1339.3 | 752.2  | 633.1  | 512.7  | 445.1  | 397.7  |
| 40°   | 16411.8 | 15905.8 | 13971.2 | 6676.5 | 2735.5 | 1317.7 | 699.4  | 607.4  | 484.3  | 415.3  | 366.6  |
| 42.5° | 17537.4 | 16940.7 | 14619.2 | 6537.1 | 2642.2 | 1243.3 | 694.0  | 581.7  | 462.7  | 388.3  | 339.6  |
| 45°   | 18483.0 | 17878.3 | 15284.8 | 6491.1 | 2575.9 | 1162.1 | 717.0  | 564.2  | 447.8  | 366.6  | 319.3  |
| 47.5° | 19236.6 | 18664.3 | 15966.7 | 6593.9 | 2538.0 | 1087.7 | 653.4  | 587.1  | 439.7  | 347.7  | 301.7  |
| 50°   | 20136.2 | 19488.2 | 16927.2 | 6901.0 | 2482.5 | 1013.3 | 591.2  | 672.4  | 439.7  | 335.5  | 286.8  |
| 52.5° | 21264.5 | 20623.3 | 17998.7 | 7377.2 | 2371.6 | 910.5  | 531.7  | 673.7  | 443.7  | 319.3  | 267.9  |
| 55°   | 22683.7 | 22218.3 | 19528.8 | 7899.5 | 2194.4 | 759.0  | 460.0  | 579.0  | 427.5  | 289.5  | 250.3  |
| 57.5° | 24044.7 | 23664.5 | 20923.6 | 8256.6 | 1957.6 | 592.6  | 400.5  | 466.7  | 391.0  | 254.3  | 223.2  |
| 59°   | 24416.7 | 24001.4 | 21435.0 | 8272.8 | 1780.4 | 516.8  | 370.7  | 385.6  | 382.9  | 238.1  | 207.0  |
| 60°   | 24416.7 | 23975.7 | 21582.5 | 8186.3 | 1651.9 | 474.9  | 351.7  | 343.6  | 399.1  | 227.3  | 197.5  |
| 62.5° | 23974.4 | 23354.7 | 21103.5 | 7600.5 | 1347.5 | 404.5  | 307.1  | 284.1  | 358.5  | 204.3  | 174.5  |
| 65°   | 23054.4 | 22152.0 | 19472.0 | 6541.2 | 1201.4 | 370.7  | 265.2  | 232.7  | 248.9  | 179.9  | 152.9  |
| 67.5° | 21520.2 | 20297.2 | 17119.3 | 5284.3 | 1143.2 | 361.2  | 228.6  | 197.5  | 188.1  | 154.2  | 133.9  |
| 70°   | 18818.5 | 17461.6 | 14263.4 | 4154.7 | 1093.1 | 357.2  | 192.1  | 166.4  | 151.5  | 129.9  | 113.6  |
| 72.5° | 13696.5 | 12281.4 | 10126.3 | 3248.3 | 1063.4 | 365.3  | 154.2  | 139.3  | 124.5  | 101.5  | 87.9   |
| 75°   | 7834.5  | 6907.8  | 5691.6  | 2145.7 | 906.4  | 349.0  | 119.1  | 116.3  | 89.3   | 73.1   | 60.9   |
| 77.5° | 4047.8  | 3924.7  | 3410.6  | 823.9  | 434.3  | 152.9  | 78.5   | 67.6   | 52.8   | 44.6   | 36.5   |
| 80°   | 1746.6  | 1727.6  | 1494.9  | 238.1  | 115.0  | 85.2   | 44.6   | 28.4   | 24.4   | 18.9   | 14.9   |
| 82.5° | 603.4   | 603.4   | 531.7   | 79.8   | 51.4   | 41.9   | 5.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 121.8   | 136.6   | 96.1    | 0.0    | 17.6   | 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°    | 9302.4 | 9302.4 | 9302.4 | 9302.4 | 9302.4 | 9302.4 | 9302.4 | 9302.4 | 9302.4 | 9302.4 | 9302.4 |
| 2.5°  | 8113.2 | 7949.5 | 7938.7 | 7835.9 | 7707.3 | 7649.2 | 7615.4 | 7674.9 | 7747.9 | 7756.1 | 7865.6 |
| 5°    | 6297.6 | 6125.8 | 6197.5 | 6014.9 | 6051.4 | 6014.9 | 5955.4 | 5966.2 | 5998.7 | 5897.2 | 6023.0 |
| 7.5°  | 4422.6 | 4292.7 | 4375.2 | 4326.5 | 4391.4 | 4417.1 | 4380.6 | 4326.5 | 4166.9 | 4147.9 | 4257.5 |
| 10°   | 3333.5 | 3186.0 | 3098.1 | 3006.1 | 3026.4 | 3068.3 | 3054.8 | 3015.6 | 2914.1 | 2919.5 | 3025.0 |
| 12.5° | 2678.7 | 2513.6 | 2339.1 | 2113.2 | 2057.7 | 2088.8 | 2057.7 | 2034.7 | 1937.3 | 1945.4 | 2038.8 |
| 15°   | 2032.0 | 1896.7 | 1714.1 | 1532.8 | 1434.1 | 1443.5 | 1356.9 | 1296.1 | 1235.2 | 1162.1 | 1218.9 |
| 17.5° | 1371.8 | 1289.3 | 1235.2 | 1181.1 | 1063.4 | 1036.3 | 926.7  | 809.0  | 763.0  | 729.2  | 753.6  |
| 20°   | 971.4  | 926.7  | 905.1  | 902.4  | 834.7  | 800.9  | 694.0  | 621.0  | 598.0  | 591.2  | 606.1  |
| 22.5° | 811.7  | 779.3  | 748.1  | 730.6  | 696.7  | 657.5  | 576.3  | 539.8  | 523.6  | 515.4  | 526.3  |
| 25°   | 706.2  | 681.9  | 649.4  | 619.6  | 606.1  | 564.2  | 506.0  | 478.9  | 468.1  | 460.0  | 465.4  |
| 27.5° | 627.7  | 606.1  | 568.2  | 549.3  | 538.4  | 501.9  | 451.9  | 430.2  | 420.7  | 418.0  | 416.7  |
| 30°   | 565.5  | 545.2  | 510.0  | 488.4  | 469.4  | 437.0  | 407.2  | 385.6  | 376.1  | 373.4  | 370.7  |
| 32.5° | 503.3  | 487.0  | 464.0  | 442.4  | 422.1  | 392.3  | 366.6  | 349.0  | 334.2  | 331.5  | 330.1  |
| 35°   | 424.8  | 408.6  | 396.4  | 395.0  | 376.1  | 347.7  | 328.7  | 305.8  | 293.6  | 289.5  | 290.9  |
| 37.5° | 377.5  | 355.8  | 328.7  | 338.2  | 332.8  | 312.5  | 286.8  | 263.8  | 251.6  | 248.9  | 248.9  |
| 40°   | 347.7  | 324.7  | 293.6  | 277.3  | 293.6  | 289.5  | 248.9  | 225.9  | 213.8  | 212.4  | 209.7  |
| 42.5° | 319.3  | 296.3  | 261.1  | 234.0  | 242.2  | 254.3  | 215.1  | 193.5  | 181.3  | 178.6  | 174.5  |
| 45°   | 299.0  | 274.6  | 235.4  | 204.3  | 188.1  | 213.8  | 184.0  | 156.9  | 150.2  | 144.8  | 142.1  |
| 47.5° | 280.0  | 257.0  | 212.4  | 177.2  | 150.2  | 154.2  | 147.5  | 128.5  | 120.4  | 115.0  | 113.6  |
| 50°   | 263.8  | 239.5  | 192.1  | 151.5  | 124.5  | 113.6  | 119.1  | 101.5  | 94.7   | 89.3   | 86.6   |
| 52.5° | 244.9  | 221.9  | 170.5  | 131.2  | 104.2  | 89.3   | 90.6   | 79.8   | 73.1   | 69.0   | 67.6   |
| 55°   | 230.0  | 207.0  | 152.9  | 115.0  | 92.0   | 73.1   | 64.9   | 62.2   | 58.2   | 55.5   | 54.1   |
| 57.5° | 209.7  | 188.1  | 135.3  | 97.4   | 78.5   | 59.5   | 50.1   | 50.1   | 48.7   | 46.0   | 44.6   |
| 59°   | 197.5  | 178.6  | 124.5  | 87.9   | 71.7   | 51.4   | 44.6   | 46.0   | 44.6   | 41.9   | 40.6   |
| 60°   | 188.1  | 170.5  | 116.3  | 81.2   | 67.6   | 47.4   | 40.6   | 43.3   | 41.9   | 39.2   | 37.9   |
| 62.5° | 166.4  | 154.2  | 100.1  | 67.6   | 59.5   | 37.9   | 33.8   | 36.5   | 36.5   | 35.2   | 33.8   |
| 65°   | 146.1  | 132.6  | 85.2   | 56.8   | 55.5   | 32.5   | 27.1   | 32.5   | 33.8   | 31.1   | 28.4   |
| 67.5° | 127.2  | 113.6  | 74.4   | 46.0   | 51.4   | 25.7   | 20.3   | 27.1   | 36.5   | 28.4   | 25.7   |
| 70°   | 108.2  | 94.7   | 58.2   | 36.5   | 54.1   | 17.6   | 16.2   | 24.4   | 43.3   | 31.1   | 24.4   |
| 72.5° | 83.9   | 73.1   | 40.6   | 27.1   | 58.2   | 12.2   | 12.2   | 20.3   | 48.7   | 33.8   | 23.0   |
| 75°   | 58.2   | 47.4   | 24.4   | 16.2   | 47.4   | 8.1    | 8.1    | 18.9   | 46.0   | 31.1   | 21.6   |
| 77.5° | 33.8   | 25.7   | 8.1    | 1.4    | 24.4   | 0.0    | 1.4    | 13.5   | 32.5   | 18.9   | 9.5    |
| 80°   | 12.2   | 5.4    | 0.0    | 0.0    | 14.9   | 0.0    | 0.0    | 0.0    | 2.7    | 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°    | 9302.4 | 9302.4 | 9302.4 | 9302.4 | 9302.4 | 9302.4 | 9302.4 | 9302.4 | 9302.4  | 9302.4  | 9302.4  |
| 2.5°  | 7894.0 | 8076.7 | 8240.4 | 8488.0 | 8781.5 | 9119.8 | 9410.6 | 9723.1 | 10016.7 | 10138.5 | 10222.3 |
| 5°    | 6048.7 | 6274.6 | 6538.5 | 6902.4 | 7386.7 | 7983.3 | 8542.1 | 9173.9 | 9853.0  | 10192.6 | 10511.9 |
| 7.5°  | 4276.4 | 4506.4 | 4833.8 | 5220.8 | 5806.6 | 6516.8 | 7247.4 | 8120.0 | 9039.9  | 9577.0  | 10106.0 |
| 10°   | 3075.1 | 3357.8 | 3663.6 | 4192.6 | 4787.8 | 5461.6 | 6213.8 | 7187.8 | 8213.3  | 8808.6  | 9445.8  |
| 12.5° | 2092.9 | 2414.9 | 2877.6 | 3470.1 | 4169.6 | 4829.8 | 5483.2 | 6412.6 | 7603.2  | 8193.0  | 8876.2  |
| 15°   | 1255.5 | 1434.1 | 1923.8 | 2609.7 | 3467.4 | 4290.0 | 5005.6 | 5937.8 | 7206.8  | 7929.2  | 8639.5  |
| 17.5° | 773.8  | 856.4  | 1122.9 | 1685.7 | 2586.7 | 3627.1 | 4607.9 | 5776.8 | 7263.6  | 8143.0  | 8903.3  |
| 20°   | 616.9  | 649.4  | 734.6  | 995.7  | 1714.1 | 2896.5 | 4160.1 | 5744.3 | 7727.6  | 8809.9  | 9625.7  |
| 22.5° | 535.7  | 566.9  | 623.7  | 723.8  | 1078.2 | 2168.7 | 3735.3 | 5774.1 | 8393.3  | 9809.7  | 10762.1 |
| 25°   | 472.2  | 499.2  | 553.3  | 635.9  | 790.1  | 1527.4 | 3280.7 | 5906.7 | 9260.5  | 11050.3 | 12062.3 |
| 27.5° | 422.1  | 445.1  | 495.2  | 570.9  | 677.8  | 1066.1 | 2765.3 | 6067.7 | 10288.6 | 12319.3 | 13317.7 |
| 30°   | 376.1  | 396.4  | 441.0  | 511.4  | 588.5  | 819.8  | 2199.8 | 6177.2 | 11318.2 | 13317.7 | 14214.7 |
| 32.5° | 336.9  | 351.7  | 392.3  | 451.9  | 511.4  | 653.4  | 1672.2 | 6159.7 | 12082.6 | 14148.4 | 14860.0 |
| 35°   | 296.3  | 311.2  | 346.3  | 397.7  | 445.1  | 539.8  | 1315.0 | 5830.9 | 12748.2 | 15010.2 | 15598.7 |
| 37.5° | 251.6  | 270.6  | 304.4  | 350.4  | 382.9  | 474.9  | 1063.4 | 5434.5 | 13423.3 | 15995.1 | 16422.6 |
| 40°   | 213.8  | 232.7  | 262.5  | 312.5  | 332.8  | 450.5  | 817.1  | 4951.5 | 14182.2 | 17096.3 | 17326.3 |
| 42.5° | 177.2  | 194.8  | 225.9  | 269.2  | 313.9  | 388.3  | 604.7  | 4399.6 | 14911.4 | 18037.9 | 18150.2 |
| 45°   | 143.4  | 161.0  | 193.5  | 236.8  | 335.5  | 322.0  | 468.1  | 3808.4 | 15499.9 | 18821.2 | 18857.8 |
| 47.5° | 113.6  | 129.9  | 163.7  | 223.2  | 312.5  | 257.0  | 334.2  | 3344.3 | 15993.7 | 19432.7 | 19336.7 |
| 50°   | 87.9   | 101.5  | 136.6  | 255.7  | 273.3  | 212.4  | 253.0  | 3190.1 | 16436.1 | 19811.5 | 19562.6 |
| 52.5° | 69.0   | 81.2   | 112.3  | 239.5  | 212.4  | 175.9  | 212.4  | 3334.8 | 17042.2 | 20125.4 | 19689.8 |
| 55°   | 55.5   | 67.6   | 87.9   | 136.6  | 144.8  | 148.8  | 181.3  | 3470.1 | 18088.0 | 20861.4 | 20440.6 |
| 57.5° | 46.0   | 58.2   | 71.7   | 96.1   | 109.6  | 125.8  | 161.0  | 3485.0 | 19320.5 | 22084.4 | 21686.6 |
| 59°   | 41.9   | 52.8   | 64.9   | 85.2   | 96.1   | 115.0  | 151.5  | 3403.8 | 19754.7 | 22529.5 | 22330.6 |
| 60°   | 39.2   | 50.1   | 60.9   | 78.5   | 89.3   | 108.2  | 146.1  | 3326.7 | 19773.7 | 22513.2 | 22605.2 |
| 62.5° | 33.8   | 44.6   | 54.1   | 66.3   | 75.8   | 92.0   | 131.2  | 3041.3 | 18972.8 | 21775.9 | 22440.2 |
| 65°   | 29.8   | 39.2   | 48.7   | 56.8   | 64.9   | 82.5   | 119.1  | 2520.4 | 17605.0 | 20586.7 | 21310.5 |
| 67.5° | 27.1   | 33.8   | 44.6   | 50.1   | 58.2   | 73.1   | 105.5  | 1796.6 | 15896.3 | 19132.4 | 19601.9 |
| 70°   | 24.4   | 32.5   | 40.6   | 46.0   | 52.8   | 63.6   | 90.6   | 1032.2 | 13423.3 | 17003.0 | 17337.1 |
| 72.5° | 23.0   | 31.1   | 36.5   | 43.3   | 47.4   | 56.8   | 82.5   | 485.7  | 9828.7  | 13620.8 | 14493.4 |
| 75°   | 20.3   | 28.4   | 33.8   | 40.6   | 44.6   | 51.4   | 70.3   | 232.7  | 6537.1  | 9857.1  | 10848.7 |
| 77.5° | 12.2   | 23.0   | 31.1   | 36.5   | 39.2   | 44.6   | 58.2   | 133.9  | 4172.3  | 6822.6  | 8036.1  |
| 80°   | 0.0    | 8.1    | 23.0   | 31.1   | 33.8   | 37.9   | 44.6   | 105.5  | 2232.2  | 3897.6  | 4678.3  |
| 82.5° | 0.0    | 0.0    | 16.2   | 24.4   | 23.0   | 25.7   | 33.8   | 66.3   | 1006.5  | 2547.5  | 2870.8  |
| 85°   | 0.0    | 0.0    | 5.4    | 18.9   | 16.2   | 12.2   | 23.0   | 23.0   | 220.5   | 1289.3  | 1608.6  |
| 87.5° | 0.0    | 0.0    | 0.0    | 1.4    | 8.1    | 5.4    | 9.5    | 2.7    | 1.4     | 96.1    | 389.6   |
| 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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|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9302.4  | 9302.4  | 9302.4  | 9302.4  | 9302.4  | 9302.4  | 9302.4  | 9302.4  | 9302.4  | 9302.4  |
| 2.5°  | 10515.9 | 10616.0 | 10785.1 | 10865.0 | 10825.7 | 10659.3 | 10460.5 | 10257.5 | 10138.5 | 10185.8 |
| 5°    | 11162.6 | 11678.0 | 11975.7 | 12074.4 | 11909.4 | 11536.0 | 11047.6 | 10403.6 | 10175.0 | 10112.8 |
| 7.5°  | 11162.6 | 12132.6 | 12746.8 | 12855.0 | 12487.1 | 11755.2 | 10839.3 | 9834.1  | 9499.9  | 9378.2  |
| 10°   | 10770.3 | 12090.7 | 12947.0 | 13118.9 | 12604.8 | 11510.3 | 10283.2 | 9136.0  | 8739.6  | 8613.8  |
| 12.5° | 10327.9 | 11749.7 | 12652.1 | 12888.9 | 12466.8 | 11266.8 | 9897.7  | 8663.8  | 8197.1  | 8087.5  |
| 15°   | 10055.9 | 11330.4 | 12077.1 | 12249.0 | 12070.4 | 11124.7 | 9805.7  | 8521.8  | 7972.5  | 7867.0  |
| 17.5° | 10153.4 | 11005.7 | 11274.9 | 11375.0 | 11495.4 | 11074.7 | 10055.9 | 8832.9  | 8137.6  | 8037.4  |
| 20°   | 10520.0 | 10663.4 | 10524.0 | 10649.9 | 10974.5 | 11123.4 | 10652.6 | 9585.1  | 8750.4  | 8616.5  |
| 22.5° | 11142.3 | 10486.2 | 10095.2 | 10145.2 | 10540.3 | 11284.4 | 11564.4 | 10659.3 | 9696.1  | 9528.3  |
| 25°   | 11867.4 | 10629.6 | 9857.1  | 9812.4  | 10218.3 | 11496.8 | 12397.8 | 11828.2 | 10814.9 | 10629.6 |
| 27.5° | 12779.3 | 10951.5 | 9808.4  | 9763.7  | 10106.0 | 11695.6 | 13090.4 | 12983.6 | 11993.3 | 11676.7 |
| 30°   | 13482.8 | 11268.1 | 9953.1  | 9850.3  | 10218.3 | 11833.6 | 13646.5 | 13964.4 | 12932.2 | 12722.5 |
| 32.5° | 13987.4 | 11641.5 | 10188.5 | 10039.7 | 10534.9 | 12071.7 | 14075.3 | 14862.7 | 13800.7 | 13482.8 |
| 35°   | 14371.6 | 12047.4 | 10568.7 | 10323.8 | 10970.5 | 12432.9 | 14477.1 | 15819.2 | 14724.7 | 14377.0 |
| 37.5° | 14731.5 | 12616.9 | 11162.6 | 10870.4 | 11653.7 | 13014.7 | 14902.0 | 16904.2 | 15758.3 | 15343.0 |
| 40°   | 15233.4 | 13262.3 | 12078.5 | 11818.7 | 12802.3 | 13807.5 | 15432.3 | 18035.2 | 16934.0 | 16411.8 |
| 42.5° | 15735.3 | 13954.9 | 13016.0 | 13086.4 | 14235.0 | 14770.7 | 16116.8 | 19231.2 | 18094.7 | 17537.4 |
| 45°   | 16194.0 | 14669.3 | 14351.3 | 14676.0 | 15564.9 | 15827.3 | 16797.3 | 19922.5 | 19021.5 | 18483.0 |
| 47.5° | 16602.5 | 15562.2 | 15678.5 | 16543.0 | 17077.4 | 16783.8 | 17306.0 | 20519.1 | 19711.4 | 19236.6 |
| 50°   | 17077.4 | 16717.5 | 17427.8 | 18650.8 | 18818.5 | 17649.6 | 17768.7 | 21225.3 | 20517.7 | 20136.2 |
| 52.5° | 17596.9 | 17935.1 | 19365.1 | 20443.3 | 20389.2 | 18589.9 | 18234.1 | 22016.7 | 21623.1 | 21264.5 |
| 55°   | 18186.7 | 18918.6 | 21071.1 | 22120.9 | 22074.9 | 19639.7 | 19005.2 | 22994.9 | 23008.4 | 22683.7 |
| 57.5° | 19062.1 | 19765.5 | 22229.1 | 23477.8 | 23555.0 | 20851.9 | 20312.1 | 24090.7 | 24261.2 | 24044.7 |
| 59°   | 19689.8 | 20314.8 | 22687.8 | 24044.7 | 24358.6 | 21789.5 | 21267.2 | 24726.6 | 24614.3 | 24416.7 |
| 60°   | 20155.2 | 20663.9 | 22915.0 | 24341.0 | 24825.3 | 22425.3 | 21972.1 | 25099.9 | 24656.2 | 24416.7 |
| 62.5° | 21306.5 | 21424.2 | 23325.0 | 24676.5 | 25362.4 | 23837.7 | 23955.4 | 25735.8 | 24365.3 | 23974.4 |
| 65°   | 21843.6 | 21904.4 | 23319.6 | 24075.8 | 24842.9 | 24937.6 | 25754.7 | 25754.7 | 23655.1 | 23054.4 |
| 67.5° | 21619.0 | 21325.4 | 22162.8 | 22084.4 | 22850.1 | 24284.2 | 26431.2 | 24810.4 | 22296.8 | 21520.2 |
| 70°   | 19792.6 | 18663.0 | 18290.9 | 18324.7 | 18910.5 | 21122.5 | 25091.8 | 22031.6 | 19726.3 | 18818.5 |
| 72.5° | 16468.6 | 13758.8 | 12840.2 | 13888.6 | 14041.5 | 16233.2 | 21383.6 | 16591.7 | 14547.5 | 13696.5 |
| 75°   | 13246.0 | 9698.8  | 8205.2  | 9311.9  | 9571.6  | 11879.6 | 16541.6 | 10333.3 | 8497.4  | 7834.5  |
| 77.5° | 9516.1  | 6961.9  | 5887.7  | 5810.6  | 6146.1  | 7534.2  | 11737.6 | 5200.5  | 4337.3  | 4047.8  |
| 80°   | 5406.1  | 4582.2  | 4933.9  | 4655.3  | 4824.4  | 4710.7  | 5576.6  | 2281.0  | 1868.3  | 1746.6  |
| 82.5° | 3263.1  | 2708.5  | 2933.0  | 2441.9  | 3090.0  | 2690.9  | 2148.4  | 730.6   | 634.5   | 603.4   |
| 85°   | 2122.7  | 1480.0  | 771.1   | 516.8   | 1064.7  | 1719.5  | 480.3   | 198.9   | 152.9   | 121.8   |
| 87.5° | 731.9   | 377.5   | 37.9    | 16.2    | 113.6   | 320.6   | 17.6    | 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)