

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: P324080

Luminaire Tested: **GAN-SA6B-727-U-SLL-HSS**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P324080  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6B-727-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 21191 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

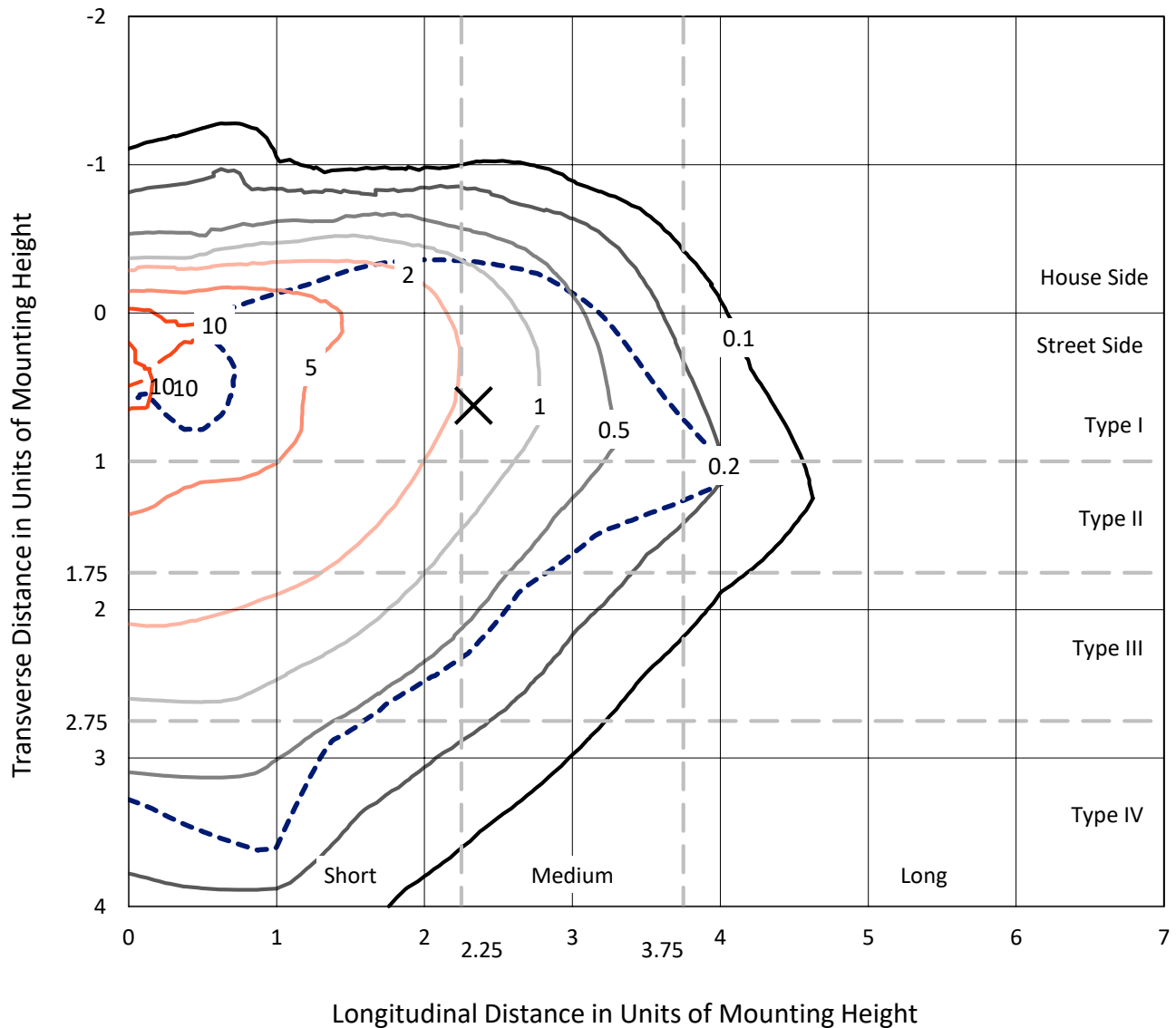
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

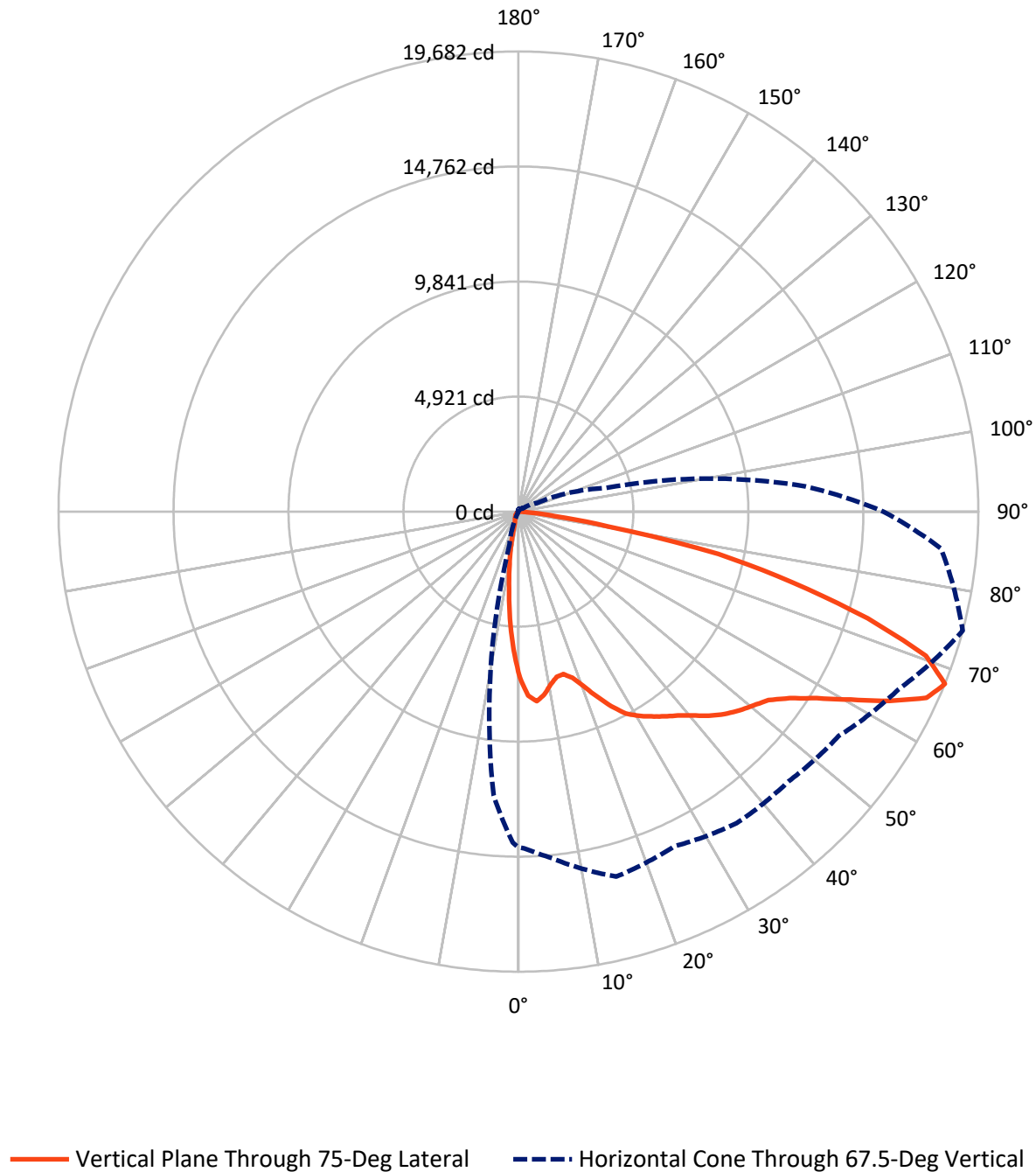
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc  
Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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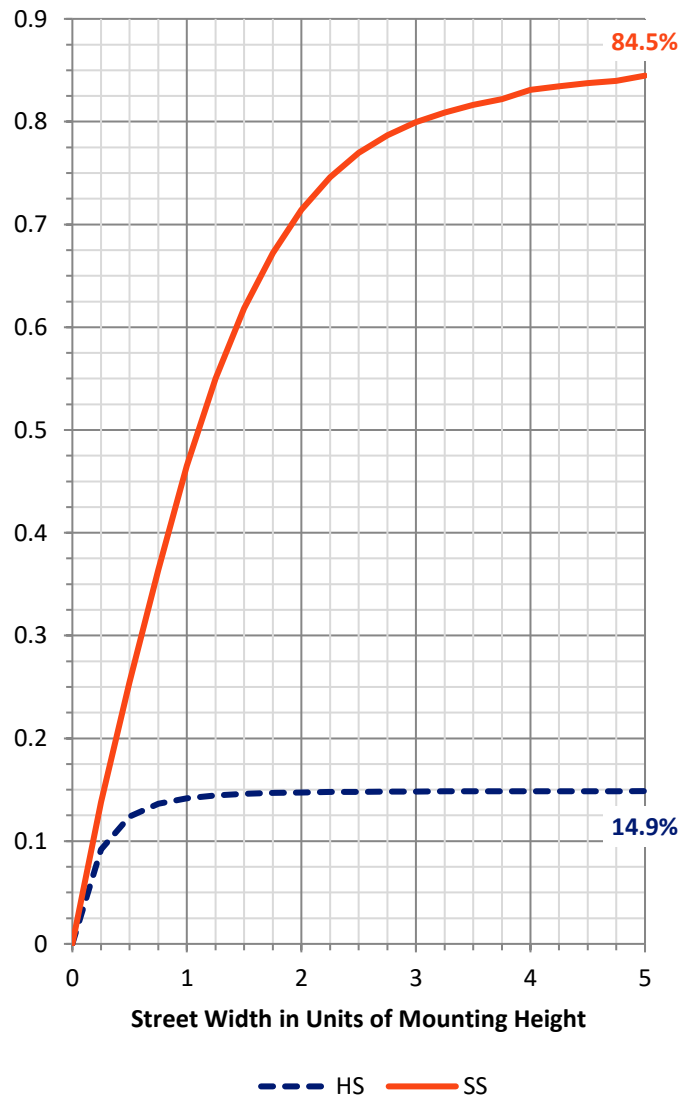
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3179.9   | 0.0    | 3179.9  |
|                    | % Fixture | 15.0     | 0.0    | 15.0    |
| <b>Street Side</b> | Lumens    | 18011.1  | 0.0    | 18011.1 |
|                    | % Fixture | 85.0     | 0.0    | 85.0    |
| <b>Total</b>       | Lumens    | 21191.0  | 0.0    | 21191.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 539.3   | 2.5       |
| 10°-20°   | 1061.8  | 5.0       |
| 20°-30°   | 1502.2  | 7.1       |
| 30°-40°   | 2208.6  | 10.4      |
| 40°-50°   | 3174.5  | 15.0      |
| 50°-60°   | 4468.9  | 21.1      |
| 60°-70°   | 5219.3  | 24.6      |
| 70°-80°   | 2662.7  | 12.6      |
| 80°-90°   | 353.7   | 1.7       |
| 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°    | 21191.0 | 100.0     |
| 0°-180°   | 21191.0 | 100.0     |

**Coefficient of Utilization**



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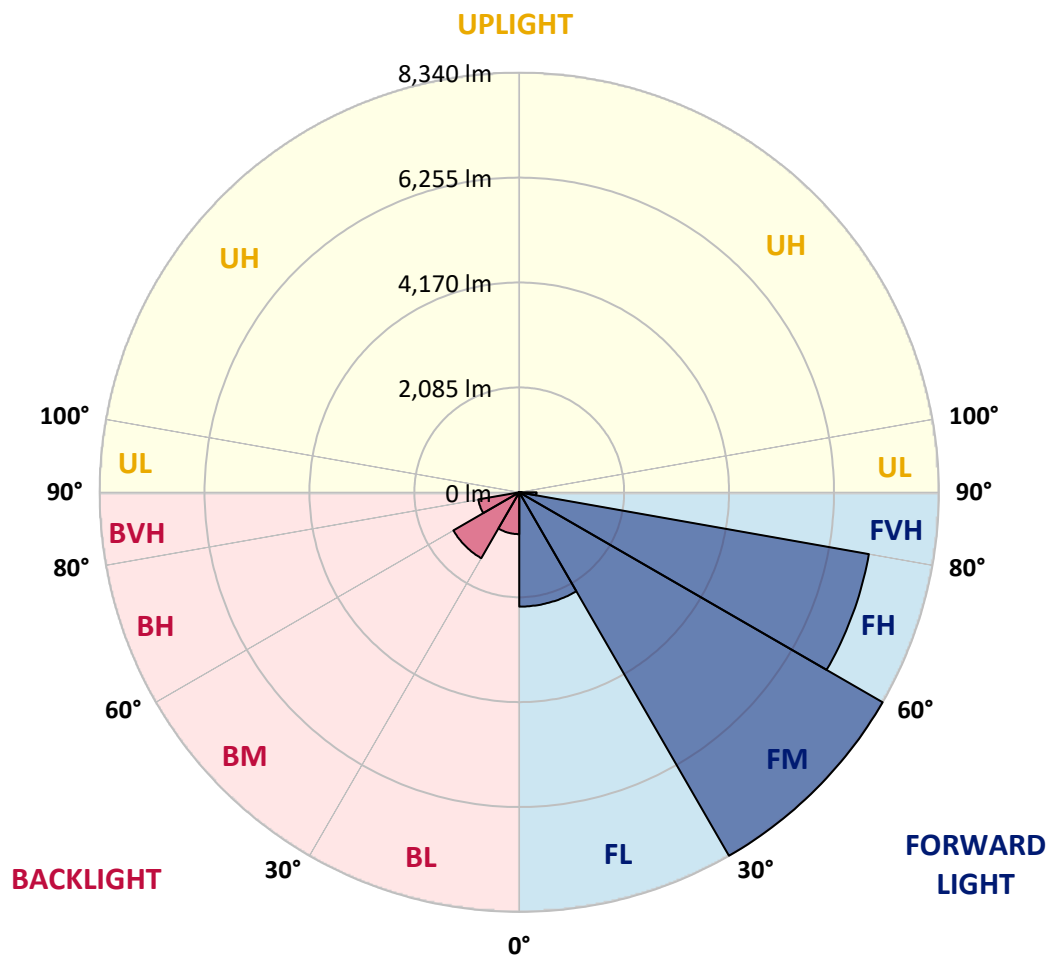
CATALOG NUMBER: GAN-SA6B-727-U-SLL-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2271.7 | 10.7      |                         |      |         |
| FM   | (30°-60°)   | 8340.4 | 39.4      |                         |      |         |
| FH   | (60°-80°)   | 7056.0 | 33.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 343.0  | 1.6       |                         |      | G3/500  |
| BL   | (0°-30°)    | 831.6  | 3.9       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1511.6 | 7.1       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 826.0  | 3.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 10.7   | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7109.2  | 7109.2  | 7109.2  | 7109.2  | 7109.2  | 7109.2  | 7109.2  | 7109.2  | 7109.2  | 7109.2  | 7109.2  |
| 2.5°  | 7706.5  | 7718.6  | 7780.8  | 7925.3  | 8082.9  | 8095.0  | 8201.4  | 8092.0  | 8054.8  | 7878.2  | 7695.5  |
| 5°    | 7764.7  | 7810.9  | 8024.7  | 8449.3  | 8817.8  | 8936.2  | 9020.5  | 8805.7  | 8579.8  | 8148.2  | 7687.4  |
| 7.5°  | 7295.9  | 7373.2  | 7709.5  | 8506.6  | 9165.1  | 9456.2  | 9511.4  | 9175.1  | 8622.0  | 7911.3  | 7218.6  |
| 10°   | 6695.6  | 6784.0  | 7189.5  | 8169.3  | 9073.7  | 9572.6  | 9648.9  | 9208.3  | 8413.2  | 7527.8  | 6711.7  |
| 12.5° | 6209.8  | 6313.2  | 6727.8  | 7789.8  | 8759.5  | 9311.7  | 9462.2  | 9096.8  | 8232.5  | 7255.8  | 6365.4  |
| 15°   | 5985.9  | 6104.4  | 6540.0  | 7544.9  | 8411.2  | 8845.9  | 8970.3  | 8812.7  | 8132.1  | 7212.6  | 6285.1  |
| 17.5° | 6114.4  | 6242.9  | 6692.6  | 7566.0  | 8083.9  | 8269.7  | 8370.0  | 8434.3  | 8132.1  | 7472.6  | 6520.0  |
| 20°   | 6641.4  | 6780.0  | 7255.8  | 7779.8  | 7812.9  | 7743.6  | 7851.1  | 8076.9  | 8226.5  | 7966.5  | 7084.1  |
| 22.5° | 7370.2  | 7532.8  | 8069.9  | 8146.2  | 7680.4  | 7418.4  | 7432.5  | 7786.8  | 8398.2  | 8592.9  | 7867.1  |
| 25°   | 8258.6  | 8457.4  | 9003.5  | 8692.3  | 7735.6  | 7224.7  | 7219.6  | 7547.9  | 8565.8  | 9220.3  | 8739.5  |
| 27.5° | 9141.0  | 9359.8  | 9839.7  | 9358.8  | 7963.5  | 7189.5  | 7179.5  | 7475.6  | 8729.4  | 9778.4  | 9692.1  |
| 30°   | 9880.8  | 10093.6 | 10507.2 | 9841.7  | 8209.4  | 7271.8  | 7223.7  | 7552.9  | 8826.8  | 10140.8 | 10386.8 |
| 32.5° | 10483.1 | 10653.8 | 10988.1 | 10174.0 | 8472.4  | 7431.5  | 7327.1  | 7759.7  | 8992.4  | 10447.0 | 11025.2 |
| 35°   | 11145.7 | 11325.4 | 11458.9 | 10490.2 | 8767.6  | 7661.3  | 7511.8  | 8088.0  | 9247.4  | 10758.2 | 11724.9 |
| 37.5° | 11901.6 | 12080.2 | 12064.2 | 10779.3 | 9142.0  | 8041.8  | 7946.4  | 8608.0  | 9643.9  | 11066.4 | 12505.9 |
| 40°   | 12641.4 | 12824.1 | 12693.6 | 11095.5 | 9581.7  | 8669.2  | 8598.9  | 9388.9  | 10175.0 | 11460.9 | 13421.4 |
| 42.5° | 13334.1 | 13531.8 | 13252.7 | 11394.6 | 10105.7 | 9460.2  | 9580.7  | 10394.8 | 10839.5 | 11946.7 | 14210.4 |
| 45°   | 13892.2 | 14094.0 | 13721.5 | 11685.7 | 10657.8 | 10419.9 | 10782.3 | 11509.1 | 11638.6 | 12357.3 | 14743.4 |
| 47.5° | 14297.7 | 14488.5 | 14046.8 | 11976.9 | 11364.5 | 11593.4 | 12224.8 | 12677.5 | 12360.3 | 12713.7 | 15121.9 |
| 50°   | 14556.7 | 14705.3 | 14142.1 | 12341.2 | 12292.1 | 12962.6 | 13727.6 | 13948.4 | 13039.9 | 13034.9 | 15581.7 |
| 52.5° | 14721.4 | 14788.6 | 14212.4 | 12721.7 | 13259.8 | 14453.3 | 15199.2 | 15268.5 | 13739.6 | 13388.3 | 16201.0 |
| 55°   | 15288.5 | 15342.7 | 14710.3 | 13182.5 | 14059.8 | 15759.3 | 16530.3 | 16466.0 | 14531.6 | 14079.9 | 16931.8 |
| 57.5° | 16256.2 | 16313.5 | 15739.3 | 13845.0 | 14707.3 | 16566.4 | 17495.0 | 17610.4 | 15460.2 | 15051.6 | 17714.8 |
| 60°   | 16742.1 | 16848.5 | 16643.7 | 14684.2 | 15334.7 | 17082.4 | 18152.5 | 18520.9 | 16620.6 | 16332.5 | 18473.7 |
| 62.5° | 16301.4 | 16456.0 | 16753.1 | 15614.8 | 15958.1 | 17366.5 | 18357.3 | 18847.2 | 17809.2 | 17825.2 | 18941.5 |
| 65°   | 15422.0 | 15545.5 | 16049.4 | 16124.7 | 16319.5 | 17331.4 | 17851.3 | 18391.4 | 18537.0 | 19196.5 | 18916.4 |
| 67.5° | 14360.0 | 14406.2 | 14833.8 | 16164.9 | 15795.5 | 16275.3 | 16331.5 | 16731.1 | 17961.8 | 19682.4 | 18156.5 |
| 70°   | 12831.1 | 12856.2 | 13229.7 | 14820.7 | 13574.0 | 13679.4 | 13596.1 | 13677.4 | 15442.1 | 18498.8 | 16238.2 |
| 72.5° | 10326.5 | 10389.8 | 10920.8 | 12308.1 | 9888.9  | 9584.7  | 10239.2 | 10203.1 | 11892.5 | 15628.8 | 12060.2 |
| 75°   | 7603.1  | 7712.5  | 8514.6  | 9914.0  | 6940.6  | 6278.0  | 6755.9  | 6883.4  | 8454.4  | 12089.3 | 7541.9  |
| 77.5° | 5323.4  | 5404.7  | 6181.7  | 7287.9  | 5023.2  | 4489.2  | 4316.5  | 4468.1  | 5580.4  | 8745.5  | 3799.5  |
| 80°   | 3066.7  | 3096.9  | 3592.8  | 4208.1  | 3385.0  | 3872.8  | 3508.4  | 3612.8  | 3343.8  | 3890.9  | 1634.3  |
| 82.5° | 2006.7  | 2011.7  | 2205.4  | 2504.6  | 2108.1  | 2449.4  | 1812.9  | 2317.9  | 2056.9  | 1563.0  | 532.0   |
| 85°   | 1084.2  | 1090.2  | 1278.9  | 1777.8  | 1193.6  | 674.6   | 396.5   | 814.1   | 1271.9  | 358.4   | 145.6   |
| 87.5° | 119.5   | 109.4   | 385.5   | 646.5   | 331.3   | 61.2    | 21.1    | 91.3    | 203.8   | 23.1    | 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°    | 7109.2  | 7109.2  | 7109.2 | 7109.2 | 7109.2 | 7109.2 | 7109.2 | 7109.2 | 7109.2 | 7109.2 | 7109.2 |
| 2.5°  | 7602.1  | 7518.8  | 7311.0 | 7091.1 | 6914.5 | 6748.8 | 6582.2 | 6378.4 | 6220.8 | 6188.7 | 6136.5 |
| 5°    | 7439.5  | 7175.5  | 6739.8 | 6302.1 | 5949.8 | 5505.1 | 5223.0 | 5003.2 | 4788.3 | 4775.3 | 4732.1 |
| 7.5°  | 6871.3  | 6524.0  | 5910.6 | 5305.3 | 4809.4 | 4385.8 | 3958.2 | 3672.1 | 3447.2 | 3367.9 | 3320.7 |
| 10°   | 6325.2  | 5934.7  | 5168.8 | 4478.1 | 4035.4 | 3661.0 | 3359.9 | 3060.7 | 2789.7 | 2603.0 | 2518.6 |
| 12.5° | 5943.8  | 5512.1  | 4667.9 | 4072.6 | 3755.4 | 3400.0 | 3032.6 | 2659.2 | 2347.0 | 2122.1 | 1984.6 |
| 15°   | 5796.2  | 5335.4  | 4500.2 | 3912.0 | 3520.5 | 3070.8 | 2601.0 | 2174.3 | 1828.0 | 1624.2 | 1500.7 |
| 17.5° | 5971.9  | 5435.8  | 4487.2 | 3716.2 | 3169.1 | 2610.0 | 2091.0 | 1587.1 | 1260.8 | 1106.2 | 1026.9 |
| 20°   | 6417.6  | 5755.0  | 4482.2 | 3476.3 | 2751.5 | 2063.9 | 1416.4 | 1044.0 | 846.2  | 759.9  | 722.8  |
| 22.5° | 7048.0  | 6162.6  | 4522.3 | 3239.4 | 2316.9 | 1474.6 | 977.7  | 766.9  | 665.5  | 619.4  | 598.3  |
| 25°   | 7859.1  | 6734.8  | 4635.7 | 3024.6 | 1908.3 | 1100.2 | 761.9  | 642.5  | 571.2  | 535.0  | 520.0  |
| 27.5° | 8723.4  | 7393.3  | 4812.4 | 2837.9 | 1576.0 | 877.4  | 652.5  | 550.1  | 498.9  | 473.8  | 459.8  |
| 30°   | 9436.1  | 8156.2  | 4991.1 | 2630.1 | 1335.1 | 764.9  | 597.3  | 501.9  | 442.7  | 426.6  | 413.6  |
| 32.5° | 10059.5 | 8733.4  | 5117.6 | 2442.4 | 1177.5 | 679.6  | 540.1  | 448.7  | 408.6  | 377.4  | 363.4  |
| 35°   | 10705.0 | 9214.3  | 5113.6 | 2310.8 | 1069.1 | 615.4  | 491.9  | 401.5  | 353.4  | 317.2  | 306.2  |
| 37.5° | 11403.7 | 9757.4  | 5026.2 | 2198.4 | 1021.9 | 564.2  | 464.8  | 376.4  | 328.3  | 292.1  | 278.1  |
| 40°   | 12221.8 | 10327.5 | 4936.9 | 2093.0 | 1008.9 | 523.0  | 445.7  | 356.4  | 305.2  | 270.0  | 256.0  |
| 42.5° | 13018.8 | 10841.5 | 4858.6 | 2014.7 | 952.6  | 522.0  | 428.6  | 341.3  | 287.1  | 253.0  | 236.9  |
| 45°   | 13656.3 | 11320.3 | 4843.5 | 1967.5 | 893.4  | 540.1  | 419.6  | 331.3  | 273.0  | 238.9  | 223.9  |
| 47.5° | 14186.3 | 11840.3 | 4939.9 | 1934.4 | 837.2  | 492.9  | 441.7  | 324.2  | 260.0  | 226.9  | 209.8  |
| 50°   | 14816.7 | 12478.8 | 5166.8 | 1880.2 | 778.0  | 443.7  | 505.9  | 326.2  | 249.0  | 214.8  | 196.8  |
| 52.5° | 15696.1 | 13362.2 | 5500.1 | 1788.8 | 696.7  | 398.5  | 497.9  | 328.3  | 236.9  | 201.8  | 183.7  |
| 55°   | 16681.9 | 14465.4 | 5858.4 | 1637.3 | 583.2  | 339.3  | 426.6  | 314.2  | 213.8  | 187.7  | 170.7  |
| 57.5° | 17717.8 | 15466.2 | 6071.2 | 1456.6 | 463.8  | 293.1  | 341.3  | 286.1  | 188.7  | 168.6  | 157.6  |
| 60°   | 17880.5 | 15846.7 | 5973.9 | 1234.7 | 368.4  | 255.0  | 253.0  | 291.1  | 168.6  | 148.6  | 140.5  |
| 62.5° | 17475.9 | 15368.8 | 5503.1 | 1037.0 | 308.2  | 223.9  | 207.8  | 254.0  | 152.6  | 132.5  | 124.5  |
| 65°   | 16697.9 | 14076.9 | 4740.1 | 934.6  | 286.1  | 191.7  | 172.7  | 178.7  | 133.5  | 115.4  | 108.4  |
| 67.5° | 15615.8 | 12352.3 | 3891.9 | 876.4  | 283.1  | 164.6  | 147.6  | 135.5  | 115.4  | 100.4  | 94.4   |
| 70°   | 13403.3 | 10290.4 | 3104.9 | 844.2  | 275.1  | 138.5  | 124.5  | 110.4  | 96.4   | 85.3   | 80.3   |
| 72.5° | 9864.8  | 7291.9  | 2415.2 | 809.1  | 277.1  | 110.4  | 108.4  | 91.3   | 77.3   | 66.3   | 64.2   |
| 75°   | 5699.8  | 4165.9  | 1584.1 | 655.5  | 264.0  | 85.3   | 90.3   | 64.2   | 54.2   | 46.2   | 46.2   |
| 77.5° | 3037.6  | 2540.7  | 603.3  | 273.0  | 96.4   | 54.2   | 51.2   | 38.1   | 34.1   | 28.1   | 27.1   |
| 80°   | 1324.1  | 1118.3  | 181.7  | 76.3   | 53.2   | 29.1   | 19.1   | 17.1   | 15.1   | 12.0   | 11.0   |
| 82.5° | 468.8   | 404.5   | 59.2   | 37.1   | 23.1   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 106.4   | 76.3    | 0.0    | 9.0    | 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°    | 7109.2 | 7109.2 | 7109.2 | 7109.2 | 7109.2 | 7109.2 | 7109.2 | 7109.2 | 7109.2 | 7109.2 | 7109.2 |
| 2.5°  | 6030.1 | 6008.0 | 5877.5 | 5882.5 | 5905.6 | 5938.7 | 5860.4 | 5896.6 | 5993.9 | 6087.3 | 6122.4 |
| 5°    | 4662.9 | 4667.9 | 4588.6 | 4637.8 | 4681.9 | 4712.0 | 4585.6 | 4587.6 | 4664.9 | 4770.3 | 4825.5 |
| 7.5°  | 3285.6 | 3277.5 | 3281.6 | 3399.0 | 3482.3 | 3422.1 | 3469.3 | 3305.7 | 3315.7 | 3391.0 | 3334.8 |
| 10°   | 2442.4 | 2331.9 | 2269.7 | 2358.0 | 2449.4 | 2416.3 | 2334.9 | 2281.7 | 2318.9 | 2402.2 | 2396.2 |
| 12.5° | 1919.3 | 1760.7 | 1667.4 | 1604.1 | 1679.4 | 1617.2 | 1615.2 | 1569.0 | 1518.8 | 1527.8 | 1661.4 |
| 15°   | 1443.5 | 1328.1 | 1217.7 | 1116.3 | 1114.3 | 1093.2 | 985.8  | 865.3  | 855.3  | 861.3  | 930.6  |
| 17.5° | 992.8  | 953.7  | 908.5  | 821.1  | 798.1  | 709.7  | 605.3  | 557.1  | 533.0  | 544.1  | 567.2  |
| 20°   | 697.7  | 682.6  | 687.6  | 640.5  | 607.3  | 523.0  | 461.8  | 442.7  | 438.7  | 449.7  | 460.8  |
| 22.5° | 578.2  | 551.1  | 548.1  | 527.0  | 493.9  | 432.7  | 399.5  | 388.5  | 383.5  | 393.5  | 401.5  |
| 25°   | 505.9  | 478.8  | 467.8  | 454.7  | 419.6  | 377.4  | 357.4  | 347.3  | 342.3  | 348.3  | 353.4  |
| 27.5° | 445.7  | 420.6  | 410.6  | 401.5  | 367.4  | 337.3  | 321.2  | 312.2  | 308.2  | 310.2  | 315.2  |
| 30°   | 400.5  | 378.4  | 365.4  | 354.4  | 325.2  | 304.2  | 290.1  | 281.1  | 277.1  | 277.1  | 282.1  |
| 32.5° | 353.4  | 341.3  | 329.3  | 315.2  | 288.1  | 274.0  | 260.0  | 250.0  | 245.9  | 246.9  | 251.0  |
| 35°   | 294.1  | 290.1  | 293.1  | 280.1  | 257.0  | 244.9  | 230.9  | 219.8  | 216.8  | 217.8  | 221.8  |
| 37.5° | 261.0  | 242.9  | 254.0  | 246.9  | 233.9  | 217.8  | 199.8  | 189.7  | 184.7  | 187.7  | 189.7  |
| 40°   | 239.9  | 217.8  | 209.8  | 216.8  | 214.8  | 188.7  | 172.7  | 162.6  | 158.6  | 159.6  | 161.6  |
| 42.5° | 221.8  | 195.7  | 177.7  | 176.7  | 188.7  | 164.6  | 147.6  | 138.5  | 133.5  | 133.5  | 135.5  |
| 45°   | 204.8  | 176.7  | 154.6  | 137.5  | 158.6  | 139.5  | 123.5  | 115.4  | 109.4  | 109.4  | 110.4  |
| 47.5° | 191.7  | 160.6  | 134.5  | 112.4  | 119.5  | 114.4  | 101.4  | 93.4   | 87.3   | 87.3   | 88.3   |
| 50°   | 179.7  | 144.6  | 116.4  | 94.4   | 89.3   | 94.4   | 82.3   | 73.3   | 69.3   | 68.3   | 70.3   |
| 52.5° | 166.6  | 128.5  | 99.4   | 80.3   | 70.3   | 71.3   | 64.2   | 58.2   | 53.2   | 53.2   | 55.2   |
| 55°   | 153.6  | 115.4  | 86.3   | 68.3   | 58.2   | 53.2   | 51.2   | 47.2   | 43.2   | 43.2   | 45.2   |
| 57.5° | 140.5  | 101.4  | 73.3   | 56.2   | 46.2   | 42.2   | 42.2   | 39.1   | 36.1   | 36.1   | 38.1   |
| 60°   | 128.5  | 87.3   | 60.2   | 46.2   | 36.1   | 35.1   | 36.1   | 33.1   | 31.1   | 31.1   | 33.1   |
| 62.5° | 114.4  | 74.3   | 49.2   | 38.1   | 29.1   | 28.1   | 31.1   | 29.1   | 27.1   | 27.1   | 29.1   |
| 65°   | 97.4   | 63.2   | 39.1   | 29.1   | 22.1   | 22.1   | 26.1   | 24.1   | 22.1   | 22.1   | 24.1   |
| 67.5° | 82.3   | 53.2   | 30.1   | 21.1   | 16.1   | 17.1   | 22.1   | 20.1   | 19.1   | 19.1   | 21.1   |
| 70°   | 68.3   | 41.2   | 21.1   | 13.0   | 9.0    | 13.0   | 17.1   | 17.1   | 17.1   | 17.1   | 19.1   |
| 72.5° | 51.2   | 28.1   | 12.0   | 5.0    | 4.0    | 9.0    | 14.1   | 16.1   | 15.1   | 15.1   | 18.1   |
| 75°   | 33.1   | 16.1   | 4.0    | 0.0    | 0.0    | 5.0    | 11.0   | 13.0   | 13.0   | 12.0   | 15.1   |
| 77.5° | 19.1   | 5.0    | 0.0    | 0.0    | 0.0    | 0.0    | 7.0    | 6.0    | 5.0    | 4.0    | 7.0    |
| 80°   | 5.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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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|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°    | 359°    | 360°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 7109.2 | 7109.2 | 7109.2 | 7109.2 | 7109.2 | 7109.2 | 7109.2 | 7109.2  | 7109.2  | 7109.2  |
| 2.5°  | 6264.0 | 6382.4 | 6549.1 | 6725.7 | 6997.8 | 7213.6 | 7425.4 | 7607.1  | 7677.4  | 7706.5  |
| 5°    | 4958.0 | 5131.6 | 5375.6 | 5688.8 | 6179.7 | 6621.4 | 7069.1 | 7519.8  | 7715.5  | 7764.7  |
| 7.5°  | 3557.6 | 3779.5 | 4089.7 | 4482.2 | 5057.4 | 5629.6 | 6254.9 | 6916.5  | 7219.6  | 7295.9  |
| 10°   | 2633.1 | 2904.1 | 3259.5 | 3673.1 | 4222.2 | 4810.4 | 5492.0 | 6247.9  | 6594.2  | 6695.6  |
| 12.5° | 1868.2 | 2234.6 | 2710.4 | 3213.3 | 3689.1 | 4214.1 | 4903.8 | 5737.0  | 6100.4  | 6209.8  |
| 15°   | 1097.2 | 1451.6 | 2014.7 | 2688.3 | 3297.6 | 3829.7 | 4530.3 | 5475.0  | 5875.5  | 5985.9  |
| 17.5° | 629.4  | 806.1  | 1231.7 | 1982.6 | 2809.8 | 3546.6 | 4412.9 | 5540.2  | 6012.0  | 6114.4  |
| 20°   | 480.8  | 537.1  | 709.7  | 1276.9 | 2239.6 | 3268.5 | 4412.9 | 5909.6  | 6490.9  | 6641.4  |
| 22.5° | 420.6  | 461.8  | 532.0  | 761.9  | 1648.3 | 2970.4 | 4464.1 | 6443.7  | 7203.6  | 7370.2  |
| 25°   | 373.4  | 410.6  | 470.8  | 573.2  | 1124.3 | 2616.0 | 4585.6 | 7099.2  | 8042.8  | 8258.6  |
| 27.5° | 334.3  | 369.4  | 423.6  | 501.9  | 768.9  | 2188.4 | 4749.2 | 7868.1  | 8968.3  | 9141.0  |
| 30°   | 299.1  | 332.3  | 381.5  | 436.7  | 593.3  | 1703.5 | 4888.7 | 8592.9  | 9695.1  | 9880.8  |
| 32.5° | 266.0  | 296.1  | 340.3  | 381.5  | 485.9  | 1259.8 | 4903.8 | 9167.1  | 10298.4 | 10483.1 |
| 35°   | 234.9  | 262.0  | 302.2  | 334.3  | 402.5  | 994.8  | 4669.9 | 9665.0  | 10901.7 | 11145.7 |
| 37.5° | 204.8  | 230.9  | 266.0  | 290.1  | 354.4  | 811.1  | 4312.5 | 10220.1 | 11675.7 | 11901.6 |
| 40°   | 176.7  | 199.8  | 235.9  | 252.0  | 335.3  | 623.4  | 3924.0 | 10802.4 | 12434.6 | 12641.4 |
| 42.5° | 150.6  | 172.7  | 207.8  | 238.9  | 294.1  | 465.8  | 3504.4 | 11348.4 | 13117.2 | 13334.1 |
| 45°   | 125.5  | 148.6  | 183.7  | 253.0  | 243.9  | 348.3  | 3055.7 | 11710.8 | 13656.3 | 13892.2 |
| 47.5° | 101.4  | 127.5  | 175.7  | 240.9  | 194.7  | 256.0  | 2700.3 | 12054.2 | 14064.8 | 14297.7 |
| 50°   | 81.3   | 107.4  | 197.8  | 214.8  | 159.6  | 195.7  | 2551.8 | 12361.3 | 14332.9 | 14556.7 |
| 52.5° | 66.3   | 90.3   | 186.7  | 164.6  | 133.5  | 161.6  | 2632.1 | 12859.2 | 14580.8 | 14721.4 |
| 55°   | 55.2   | 71.3   | 112.4  | 114.4  | 113.4  | 137.5  | 2731.5 | 13574.0 | 15222.3 | 15288.5 |
| 57.5° | 48.2   | 57.2   | 78.3   | 88.3   | 95.4   | 122.5  | 2733.5 | 14599.9 | 16215.1 | 16256.2 |
| 60°   | 41.2   | 50.2   | 65.2   | 71.3   | 82.3   | 109.4  | 2634.1 | 14958.3 | 16605.6 | 16742.1 |
| 62.5° | 36.1   | 44.2   | 54.2   | 59.2   | 69.3   | 98.4   | 2401.2 | 14439.3 | 16069.5 | 16301.4 |
| 65°   | 32.1   | 40.2   | 45.2   | 50.2   | 61.2   | 88.3   | 2017.7 | 13401.3 | 15180.1 | 15422.0 |
| 67.5° | 28.1   | 35.1   | 40.2   | 45.2   | 55.2   | 78.3   | 1485.7 | 12195.7 | 14159.2 | 14360.0 |
| 70°   | 25.1   | 31.1   | 36.1   | 40.2   | 48.2   | 66.3   | 901.5  | 10348.6 | 12747.8 | 12831.1 |
| 72.5° | 24.1   | 28.1   | 33.1   | 36.1   | 42.2   | 58.2   | 456.7  | 7605.1  | 10191.0 | 10326.5 |
| 75°   | 21.1   | 25.1   | 30.1   | 32.1   | 37.1   | 50.2   | 185.7  | 4995.1  | 7385.3  | 7603.1  |
| 77.5° | 17.1   | 23.1   | 27.1   | 29.1   | 32.1   | 41.2   | 94.4   | 3192.2  | 5182.8  | 5323.4  |
| 80°   | 6.0    | 17.1   | 23.1   | 24.1   | 27.1   | 30.1   | 62.2   | 1747.7  | 3006.5  | 3066.7  |
| 82.5° | 0.0    | 11.0   | 18.1   | 17.1   | 19.1   | 23.1   | 40.2   | 831.2   | 1984.6  | 2006.7  |
| 85°   | 0.0    | 5.0    | 14.1   | 11.0   | 8.0    | 16.1   | 14.1   | 181.7   | 1041.0  | 1084.2  |
| 87.5° | 0.0    | 0.0    | 1.0    | 5.0    | 4.0    | 6.0    | 2.0    | 1.0     | 94.4    | 119.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |

(END OF REPORT)