

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386924

Luminaire Tested: GAW-SA2C-827-U-SLR-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386924  
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  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2C-827-U-SLR-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 2700K, 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: 8044 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

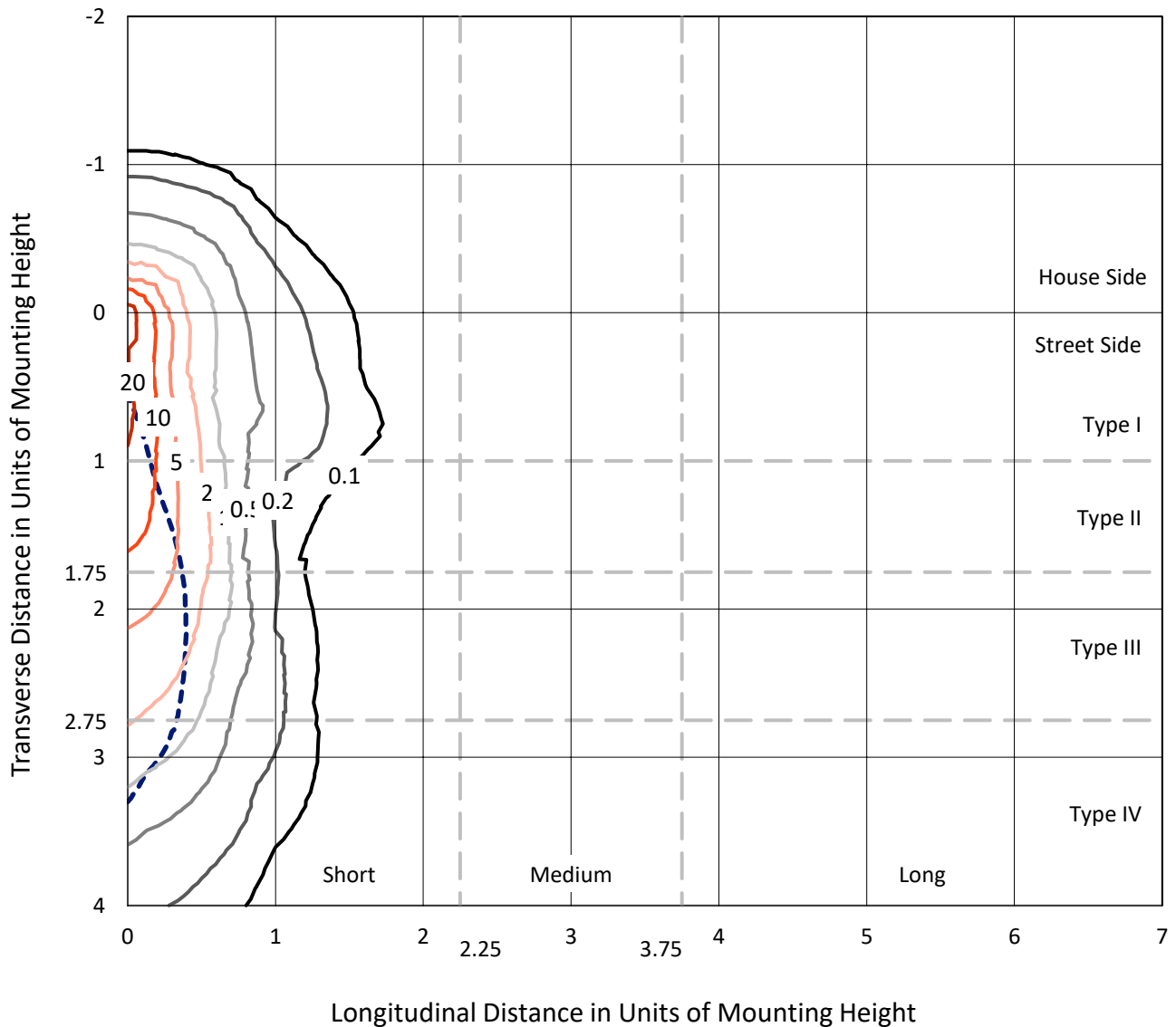
Input Watts (W): 111  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

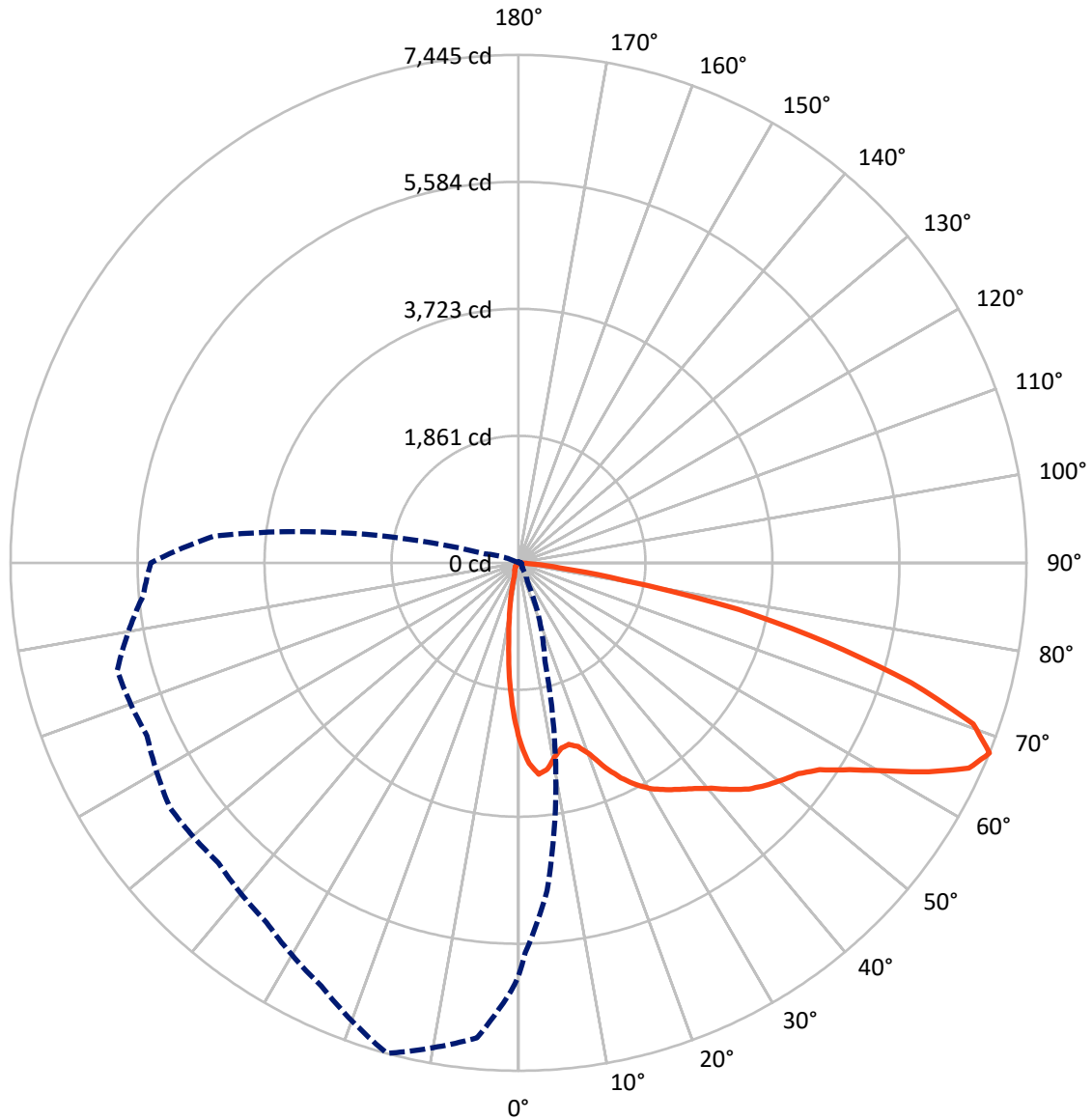
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26.2 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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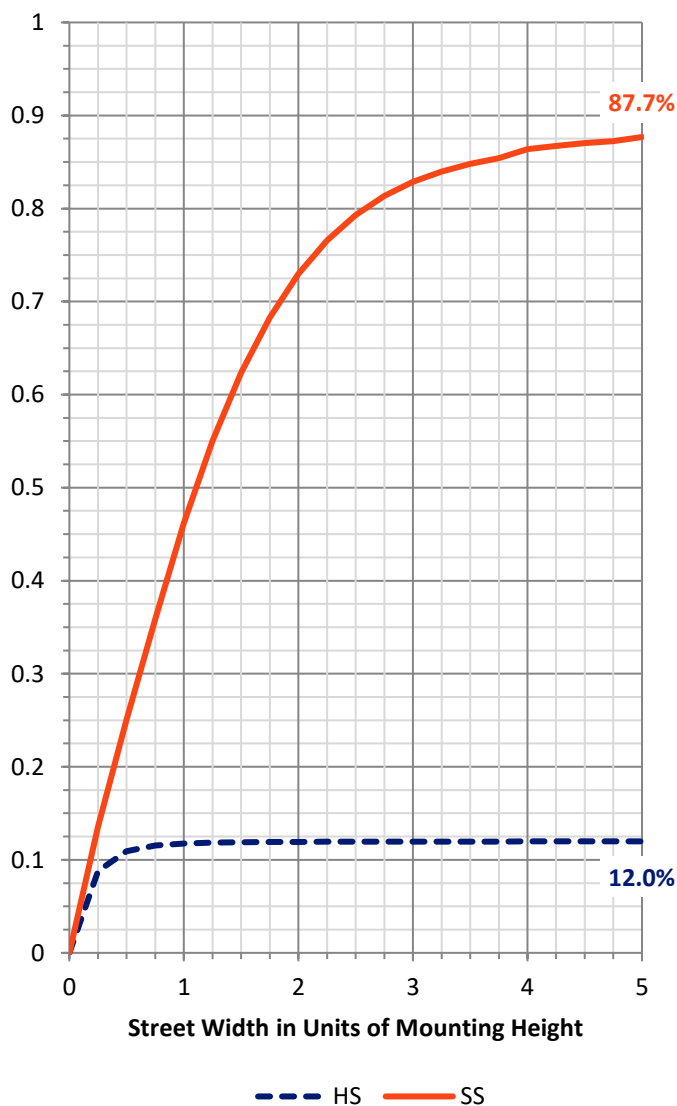
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 973.6    | 0.0    | 973.6  |
|                    | % Fixture | 12.1     | 0.0    | 12.1   |
| <b>Street Side</b> | Lumens    | 7070.4   | 0.0    | 7070.4 |
|                    | % Fixture | 87.9     | 0.0    | 87.9   |
| <b>Total</b>       | Lumens    | 8044.0   | 0.0    | 8044.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 201.1  | 2.5       |
| 10°-20°   | 400.3  | 5.0       |
| 20°-30°   | 568.4  | 7.1       |
| 30°-40°   | 839.6  | 10.4      |
| 40°-50°   | 1210.9 | 15.1      |
| 50°-60°   | 1699.8 | 21.1      |
| 60°-70°   | 1981.5 | 24.6      |
| 70°-80°   | 1013.0 | 12.6      |
| 80°-90°   | 129.4  | 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°    | 8044.0 | 100.0     |
| 0°-180°   | 8044.0 | 100.0     |

**Coefficient of Utilization**

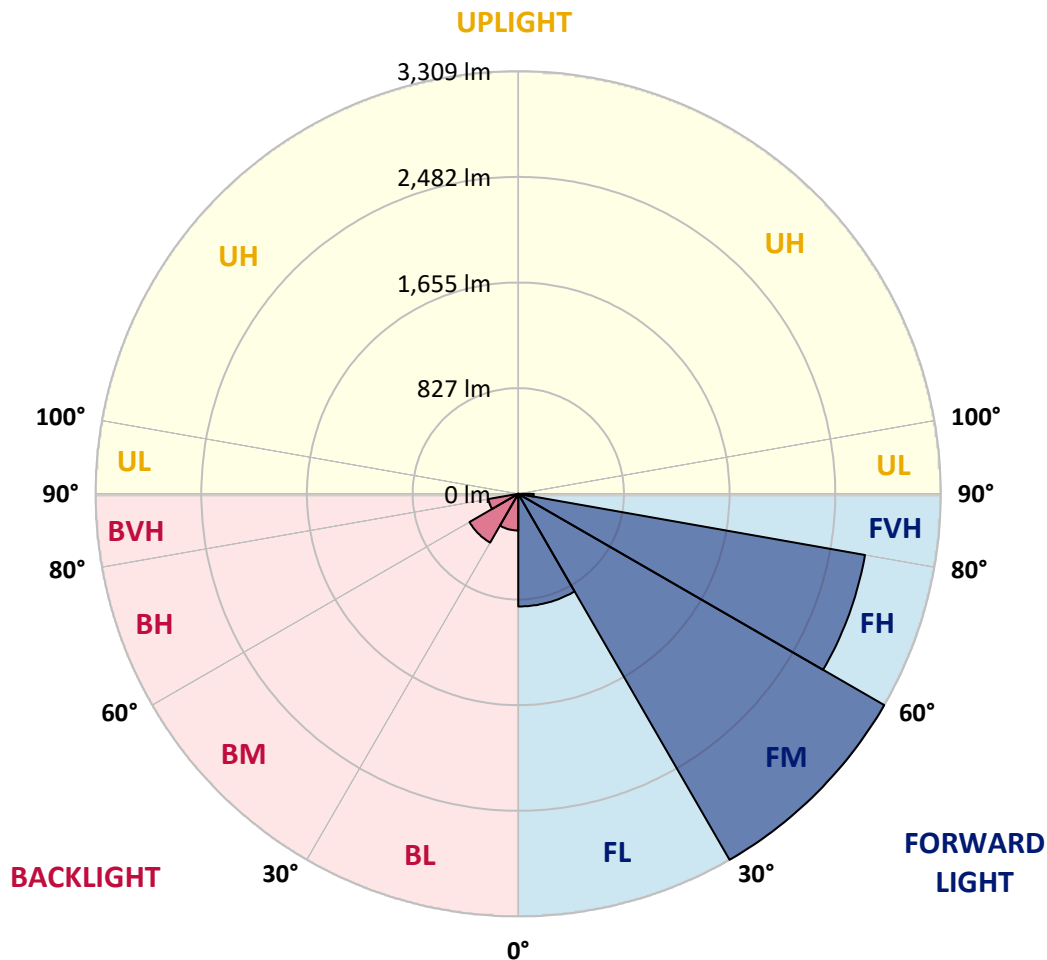


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 882.3  | 11.0      |                         |      |         |
| FM (30°-60°)   | 3309.4 | 41.1      |                         |      |         |
| FH (60°-80°)   | 2757.2 | 34.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 121.5  | 1.5       |                         |      | G2/225  |
| BL (0°-30°)    | 287.6  | 3.6       | B1/500                  |      |         |
| BM (30°-60°)   | 440.9  | 5.5       | B1/1000                 |      |         |
| BH (60°-80°)   | 237.3  | 2.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 7.9    | 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°    | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 |
| 2.5°  | 2869.2 | 2847.1 | 2822.7 | 2743.0 | 2669.1 | 2584.5 | 2515.5 | 2467.5 | 2407.3 | 2329.2 | 2309.4 |
| 5°    | 2848.6 | 2825.0 | 2748.4 | 2571.2 | 2416.1 | 2265.1 | 2119.6 | 2034.2 | 1928.3 | 1820.8 | 1794.1 |
| 7.5°  | 2641.7 | 2616.9 | 2506.4 | 2263.6 | 2054.8 | 1836.8 | 1647.8 | 1530.8 | 1411.1 | 1312.8 | 1260.6 |
| 10°   | 2426.3 | 2399.3 | 2275.1 | 1980.5 | 1723.3 | 1526.2 | 1387.5 | 1275.9 | 1162.7 | 1057.5 | 973.7  |
| 12.5° | 2278.1 | 2242.7 | 2107.8 | 1773.9 | 1549.9 | 1416.1 | 1286.5 | 1152.8 | 999.6  | 886.8  | 794.6  |
| 15°   | 2216.0 | 2175.6 | 2033.1 | 1694.3 | 1488.5 | 1331.5 | 1162.7 | 998.4  | 818.9  | 689.8  | 605.2  |
| 17.5° | 2264.0 | 2211.4 | 2058.6 | 1689.0 | 1411.5 | 1197.7 | 984.3  | 791.5  | 596.8  | 466.1  | 405.9  |
| 20°   | 2427.1 | 2358.1 | 2164.2 | 1687.4 | 1318.2 | 1038.8 | 768.3  | 550.3  | 393.3  | 316.3  | 284.7  |
| 22.5° | 2684.0 | 2592.9 | 2315.8 | 1699.6 | 1221.7 | 871.9  | 554.9  | 373.8  | 295.3  | 255.3  | 236.7  |
| 25°   | 2994.2 | 2888.6 | 2534.2 | 1742.7 | 1137.1 | 709.6  | 403.2  | 295.3  | 249.2  | 219.9  | 204.3  |
| 27.5° | 3289.1 | 3203.4 | 2810.1 | 1804.8 | 1071.6 | 578.5  | 327.3  | 250.4  | 213.0  | 193.6  | 181.0  |
| 30°   | 3583.7 | 3475.8 | 3093.2 | 1878.7 | 992.7  | 489.7  | 287.7  | 228.3  | 190.9  | 170.3  | 162.3  |
| 32.5° | 3797.9 | 3708.3 | 3315.0 | 1932.1 | 908.5  | 431.8  | 257.2  | 208.8  | 178.3  | 157.4  | 145.6  |
| 35°   | 4049.8 | 3948.4 | 3505.2 | 1943.9 | 854.4  | 395.2  | 231.3  | 187.9  | 154.7  | 136.0  | 123.5  |
| 37.5° | 4321.8 | 4195.7 | 3724.7 | 1918.0 | 812.1  | 377.3  | 211.9  | 178.3  | 144.4  | 125.4  | 112.0  |
| 40°   | 4622.9 | 4480.4 | 3935.4 | 1880.6 | 770.5  | 371.2  | 197.0  | 171.1  | 136.4  | 117.0  | 103.3  |
| 42.5° | 4940.0 | 4771.9 | 4118.0 | 1841.4 | 744.3  | 350.2  | 195.5  | 163.9  | 130.3  | 109.4  | 95.7   |
| 45°   | 5206.3 | 5036.0 | 4305.5 | 1828.4 | 725.6  | 327.3  | 202.0  | 158.9  | 126.1  | 103.3  | 89.9   |
| 47.5° | 5418.6 | 5257.4 | 4497.5 | 1857.4 | 714.9  | 306.4  | 184.1  | 165.4  | 123.9  | 97.9   | 85.0   |
| 50°   | 5672.0 | 5489.5 | 4768.1 | 1943.9 | 699.3  | 285.4  | 166.5  | 189.4  | 123.9  | 94.5   | 80.8   |
| 52.5° | 5989.8 | 5809.2 | 5069.9 | 2078.0 | 668.0  | 256.5  | 149.8  | 189.8  | 125.0  | 89.9   | 75.5   |
| 55°   | 6389.6 | 6258.5 | 5500.9 | 2225.1 | 618.1  | 213.8  | 129.6  | 163.1  | 120.4  | 81.6   | 70.5   |
| 57.5° | 6773.0 | 6665.9 | 5893.8 | 2325.7 | 551.4  | 166.9  | 112.8  | 131.5  | 110.1  | 71.6   | 62.9   |
| 59°   | 6877.8 | 6760.8 | 6037.9 | 2330.3 | 501.5  | 145.6  | 104.4  | 108.6  | 107.8  | 67.1   | 58.3   |
| 60°   | 6877.8 | 6753.5 | 6079.4 | 2305.9 | 465.3  | 133.8  | 99.1   | 96.8   | 112.4  | 64.0   | 55.6   |
| 62.5° | 6753.1 | 6578.6 | 5944.5 | 2140.9 | 379.6  | 113.9  | 86.5   | 80.0   | 101.0  | 57.5   | 49.2   |
| 65°   | 6494.0 | 6239.8 | 5484.9 | 1842.5 | 338.4  | 104.4  | 74.7   | 65.5   | 70.1   | 50.7   | 43.1   |
| 67.5° | 6061.9 | 5717.4 | 4822.2 | 1488.5 | 322.0  | 101.7  | 64.4   | 55.6   | 53.0   | 43.4   | 37.7   |
| 70°   | 5300.8 | 4918.6 | 4017.7 | 1170.3 | 307.9  | 100.6  | 54.1   | 46.9   | 42.7   | 36.6   | 32.0   |
| 72.5° | 3858.1 | 3459.5 | 2852.4 | 915.0  | 299.5  | 102.9  | 43.4   | 39.3   | 35.1   | 28.6   | 24.8   |
| 75°   | 2206.8 | 1945.8 | 1603.2 | 604.4  | 255.3  | 98.3   | 33.5   | 32.8   | 25.2   | 20.6   | 17.1   |
| 77.5° | 1140.2 | 1105.5 | 960.7  | 232.1  | 122.3  | 43.1   | 22.1   | 19.1   | 14.9   | 12.6   | 10.3   |
| 80°   | 492.0  | 486.6  | 421.1  | 67.1   | 32.4   | 24.0   | 12.6   | 8.0    | 6.9    | 5.3    | 4.2    |
| 82.5° | 170.0  | 170.0  | 149.8  | 22.5   | 14.5   | 11.8   | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 34.3   | 38.5   | 27.1   | 0.0    | 5.0    | 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 |
| 2.5°  | 2285.3 | 2239.2 | 2236.2 | 2207.2 | 2171.0 | 2154.6 | 2145.1 | 2161.9 | 2182.5 | 2184.7 | 2215.6 |
| 5°    | 1773.9 | 1725.5 | 1745.7 | 1694.3 | 1704.6 | 1694.3 | 1677.5 | 1680.6 | 1689.7 | 1661.1 | 1696.6 |
| 7.5°  | 1245.8 | 1209.2 | 1232.4 | 1218.7 | 1237.0 | 1244.2 | 1233.9 | 1218.7 | 1173.7 | 1168.4 | 1199.3 |
| 10°   | 939.0  | 897.4  | 872.7  | 846.8  | 852.5  | 864.3  | 860.5  | 849.4  | 820.9  | 822.4  | 852.1  |
| 12.5° | 754.5  | 708.0  | 658.9  | 595.2  | 579.6  | 588.4  | 579.6  | 573.1  | 545.7  | 548.0  | 574.3  |
| 15°   | 572.4  | 534.3  | 482.8  | 431.8  | 403.9  | 406.6  | 382.2  | 365.1  | 347.9  | 327.3  | 343.4  |
| 17.5° | 386.4  | 363.2  | 347.9  | 332.7  | 299.5  | 291.9  | 261.0  | 227.9  | 214.9  | 205.4  | 212.3  |
| 20°   | 273.6  | 261.0  | 254.9  | 254.2  | 235.1  | 225.6  | 195.5  | 174.9  | 168.4  | 166.5  | 170.7  |
| 22.5° | 228.6  | 219.5  | 210.7  | 205.8  | 196.3  | 185.2  | 162.3  | 152.1  | 147.5  | 145.2  | 148.2  |
| 25°   | 198.9  | 192.1  | 182.9  | 174.5  | 170.7  | 158.9  | 142.5  | 134.9  | 131.9  | 129.6  | 131.1  |
| 27.5° | 176.8  | 170.7  | 160.1  | 154.7  | 151.7  | 141.4  | 127.3  | 121.2  | 118.5  | 117.8  | 117.4  |
| 30°   | 159.3  | 153.6  | 143.7  | 137.6  | 132.2  | 123.1  | 114.7  | 108.6  | 105.9  | 105.2  | 104.4  |
| 32.5° | 141.8  | 137.2  | 130.7  | 124.6  | 118.9  | 110.5  | 103.3  | 98.3   | 94.1   | 93.4   | 93.0   |
| 35°   | 119.7  | 115.1  | 111.7  | 111.3  | 105.9  | 97.9   | 92.6   | 86.1   | 82.7   | 81.6   | 81.9   |
| 37.5° | 106.3  | 100.2  | 92.6   | 95.3   | 93.7   | 88.0   | 80.8   | 74.3   | 70.9   | 70.1   | 70.1   |
| 40°   | 97.9   | 91.5   | 82.7   | 78.1   | 82.7   | 81.6   | 70.1   | 63.6   | 60.2   | 59.8   | 59.1   |
| 42.5° | 89.9   | 83.5   | 73.5   | 65.9   | 68.2   | 71.6   | 60.6   | 54.5   | 51.1   | 50.3   | 49.2   |
| 45°   | 84.2   | 77.4   | 66.3   | 57.5   | 53.0   | 60.2   | 51.8   | 44.2   | 42.3   | 40.8   | 40.0   |
| 47.5° | 78.9   | 72.4   | 59.8   | 49.9   | 42.3   | 43.4   | 41.5   | 36.2   | 33.9   | 32.4   | 32.0   |
| 50°   | 74.3   | 67.5   | 54.1   | 42.7   | 35.1   | 32.0   | 33.5   | 28.6   | 26.7   | 25.2   | 24.4   |
| 52.5° | 69.0   | 62.5   | 48.0   | 37.0   | 29.3   | 25.2   | 25.5   | 22.5   | 20.6   | 19.4   | 19.1   |
| 55°   | 64.8   | 58.3   | 43.1   | 32.4   | 25.9   | 20.6   | 18.3   | 17.5   | 16.4   | 15.6   | 15.2   |
| 57.5° | 59.1   | 53.0   | 38.1   | 27.4   | 22.1   | 16.8   | 14.1   | 14.1   | 13.7   | 13.0   | 12.6   |
| 59°   | 55.6   | 50.3   | 35.1   | 24.8   | 20.2   | 14.5   | 12.6   | 13.0   | 12.6   | 11.8   | 11.4   |
| 60°   | 53.0   | 48.0   | 32.8   | 22.9   | 19.1   | 13.3   | 11.4   | 12.2   | 11.8   | 11.1   | 10.7   |
| 62.5° | 46.9   | 43.4   | 28.2   | 19.1   | 16.8   | 10.7   | 9.5    | 10.3   | 10.3   | 9.9    | 9.5    |
| 65°   | 41.2   | 37.3   | 24.0   | 16.0   | 15.6   | 9.1    | 7.6    | 9.1    | 9.5    | 8.8    | 8.0    |
| 67.5° | 35.8   | 32.0   | 21.0   | 13.0   | 14.5   | 7.2    | 5.7    | 7.6    | 10.3   | 8.0    | 7.2    |
| 70°   | 30.5   | 26.7   | 16.4   | 10.3   | 15.2   | 5.0    | 4.6    | 6.9    | 12.2   | 8.8    | 6.9    |
| 72.5° | 23.6   | 20.6   | 11.4   | 7.6    | 16.4   | 3.4    | 3.4    | 5.7    | 13.7   | 9.5    | 6.5    |
| 75°   | 16.4   | 13.3   | 6.9    | 4.6    | 13.3   | 2.3    | 2.3    | 5.3    | 13.0   | 8.8    | 6.1    |
| 77.5° | 9.5    | 7.2    | 2.3    | 0.4    | 6.9    | 0.0    | 0.4    | 3.8    | 9.1    | 5.3    | 2.7    |
| 80°   | 3.4    | 1.5    | 0.0    | 0.0    | 4.2    | 0.0    | 0.0    | 0.0    | 0.8    | 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°    | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 |
| 2.5°  | 2223.6 | 2275.1 | 2321.2 | 2390.9 | 2473.6 | 2568.9 | 2650.8 | 2738.8 | 2821.5 | 2855.8 | 2879.5 |
| 5°    | 1703.8 | 1767.5 | 1841.8 | 1944.3 | 2080.7 | 2248.8 | 2406.2 | 2584.1 | 2775.4 | 2871.1 | 2961.0 |
| 7.5°  | 1204.6 | 1269.4 | 1361.6 | 1470.6 | 1635.6 | 1835.7 | 2041.5 | 2287.3 | 2546.4 | 2697.7 | 2846.7 |
| 10°   | 866.2  | 945.8  | 1032.0 | 1181.0 | 1348.6 | 1538.4 | 1750.3 | 2024.7 | 2313.5 | 2481.2 | 2660.7 |
| 12.5° | 589.5  | 680.2  | 810.6  | 977.5  | 1174.5 | 1360.5 | 1544.5 | 1806.3 | 2141.7 | 2307.8 | 2500.3 |
| 15°   | 353.6  | 403.9  | 541.9  | 735.1  | 976.7  | 1208.4 | 1410.0 | 1672.6 | 2030.0 | 2233.5 | 2433.6 |
| 17.5° | 218.0  | 241.2  | 316.3  | 474.8  | 728.6  | 1021.7 | 1298.0 | 1627.2 | 2046.0 | 2293.7 | 2507.9 |
| 20°   | 173.8  | 182.9  | 206.9  | 280.5  | 482.8  | 815.9  | 1171.8 | 1618.1 | 2176.7 | 2481.6 | 2711.4 |
| 22.5° | 150.9  | 159.7  | 175.7  | 203.9  | 303.7  | 610.9  | 1052.2 | 1626.5 | 2364.2 | 2763.2 | 3031.5 |
| 25°   | 133.0  | 140.6  | 155.9  | 179.1  | 222.6  | 430.2  | 924.1  | 1663.8 | 2608.5 | 3112.7 | 3397.7 |
| 27.5° | 118.9  | 125.4  | 139.5  | 160.8  | 190.9  | 300.3  | 778.9  | 1709.2 | 2898.1 | 3470.1 | 3751.4 |
| 30°   | 105.9  | 111.7  | 124.2  | 144.0  | 165.8  | 230.9  | 619.6  | 1740.0 | 3188.1 | 3751.4 | 4004.0 |
| 32.5° | 94.9   | 99.1   | 110.5  | 127.3  | 144.0  | 184.1  | 471.0  | 1735.1 | 3403.4 | 3985.4 | 4185.8 |
| 35°   | 83.5   | 87.6   | 97.6   | 112.0  | 125.4  | 152.1  | 370.4  | 1642.5 | 3590.9 | 4228.1 | 4393.9 |
| 37.5° | 70.9   | 76.2   | 85.7   | 98.7   | 107.8  | 133.8  | 299.5  | 1530.8 | 3781.1 | 4505.5 | 4626.0 |
| 40°   | 60.2   | 65.5   | 73.9   | 88.0   | 93.7   | 126.9  | 230.2  | 1394.8 | 3994.9 | 4815.7 | 4880.5 |
| 42.5° | 49.9   | 54.9   | 63.6   | 75.8   | 88.4   | 109.4  | 170.3  | 1239.3 | 4200.3 | 5081.0 | 5112.6 |
| 45°   | 40.4   | 45.3   | 54.5   | 66.7   | 94.5   | 90.7   | 131.9  | 1072.7 | 4366.1 | 5301.6 | 5311.9 |
| 47.5° | 32.0   | 36.6   | 46.1   | 62.9   | 88.0   | 72.4   | 94.1   | 942.0  | 4505.1 | 5473.9 | 5446.8 |
| 50°   | 24.8   | 28.6   | 38.5   | 72.0   | 77.0   | 59.8   | 71.3   | 898.6  | 4629.8 | 5580.6 | 5510.4 |
| 52.5° | 19.4   | 22.9   | 31.6   | 67.5   | 59.8   | 49.5   | 59.8   | 939.4  | 4800.5 | 5669.0 | 5546.3 |
| 55°   | 15.6   | 19.1   | 24.8   | 38.5   | 40.8   | 41.9   | 51.1   | 977.5  | 5095.1 | 5876.3 | 5757.8 |
| 57.5° | 13.0   | 16.4   | 20.2   | 27.1   | 30.9   | 35.4   | 45.3   | 981.7  | 5442.2 | 6220.8 | 6108.7 |
| 59°   | 11.8   | 14.9   | 18.3   | 24.0   | 27.1   | 32.4   | 42.7   | 958.8  | 5564.6 | 6346.2 | 6290.1 |
| 60°   | 11.1   | 14.1   | 17.1   | 22.1   | 25.2   | 30.5   | 41.2   | 937.1  | 5569.9 | 6341.6 | 6367.5 |
| 62.5° | 9.5    | 12.6   | 15.2   | 18.7   | 21.3   | 25.9   | 37.0   | 856.7  | 5344.3 | 6133.9 | 6321.0 |
| 65°   | 8.4    | 11.1   | 13.7   | 16.0   | 18.3   | 23.2   | 33.5   | 710.0  | 4959.0 | 5798.9 | 6002.8 |
| 67.5° | 7.6    | 9.5    | 12.6   | 14.1   | 16.4   | 20.6   | 29.7   | 506.1  | 4477.7 | 5389.3 | 5521.5 |
| 70°   | 6.9    | 9.1    | 11.4   | 13.0   | 14.9   | 17.9   | 25.5   | 290.8  | 3781.1 | 4789.4 | 4883.6 |
| 72.5° | 6.5    | 8.8    | 10.3   | 12.2   | 13.3   | 16.0   | 23.2   | 136.8  | 2768.6 | 3836.7 | 4082.5 |
| 75°   | 5.7    | 8.0    | 9.5    | 11.4   | 12.6   | 14.5   | 19.8   | 65.5   | 1841.4 | 2776.6 | 3055.9 |
| 77.5° | 3.4    | 6.5    | 8.8    | 10.3   | 11.1   | 12.6   | 16.4   | 37.7   | 1175.3 | 1921.8 | 2263.6 |
| 80°   | 0.0    | 2.3    | 6.5    | 8.8    | 9.5    | 10.7   | 12.6   | 29.7   | 628.8  | 1097.9 | 1317.8 |
| 82.5° | 0.0    | 0.0    | 4.6    | 6.9    | 6.5    | 7.2    | 9.5    | 18.7   | 283.5  | 717.6  | 808.7  |
| 85°   | 0.0    | 0.0    | 1.5    | 5.3    | 4.6    | 3.4    | 6.5    | 6.5    | 62.1   | 363.2  | 453.1  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.4    | 2.3    | 1.5    | 2.7    | 0.8    | 0.4    | 27.1   | 109.8  |
| 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):**

|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 359°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 | 2620.3 |
| 2.5°  | 2962.1 | 2990.3 | 3038.0 | 3060.5 | 3049.4 | 3002.5 | 2946.5 | 2889.4 | 2855.8 | 2869.2 |
| 5°    | 3144.3 | 3289.5 | 3373.3 | 3401.2 | 3354.7 | 3249.5 | 3111.9 | 2930.5 | 2866.1 | 2848.6 |
| 7.5°  | 3144.3 | 3417.5 | 3590.6 | 3621.0 | 3517.4 | 3311.2 | 3053.2 | 2770.1 | 2676.0 | 2641.7 |
| 10°   | 3033.8 | 3405.7 | 3647.0 | 3695.3 | 3550.5 | 3242.2 | 2896.6 | 2573.4 | 2461.8 | 2426.3 |
| 12.5° | 2909.2 | 3309.7 | 3563.9 | 3630.6 | 3511.7 | 3173.6 | 2788.0 | 2440.4 | 2309.0 | 2278.1 |
| 15°   | 2832.6 | 3191.6 | 3401.9 | 3450.3 | 3400.0 | 3133.6 | 2762.1 | 2400.4 | 2245.7 | 2216.0 |
| 17.5° | 2860.0 | 3100.1 | 3175.9 | 3204.1 | 3238.1 | 3119.5 | 2832.6 | 2488.1 | 2292.2 | 2264.0 |
| 20°   | 2963.3 | 3003.7 | 2964.4 | 2999.9 | 3091.3 | 3133.3 | 3000.6 | 2700.0 | 2464.8 | 2427.1 |
| 22.5° | 3138.6 | 2953.8 | 2843.6 | 2857.7 | 2969.0 | 3178.6 | 3257.5 | 3002.5 | 2731.2 | 2684.0 |
| 25°   | 3342.8 | 2994.2 | 2776.6 | 2764.0 | 2878.3 | 3238.4 | 3492.2 | 3331.8 | 3046.4 | 2994.2 |
| 27.5° | 3599.7 | 3084.9 | 2762.8 | 2750.3 | 2846.7 | 3294.5 | 3687.3 | 3657.2 | 3378.3 | 3289.1 |
| 30°   | 3797.9 | 3174.0 | 2803.6 | 2774.7 | 2878.3 | 3333.3 | 3844.0 | 3933.5 | 3642.8 | 3583.7 |
| 32.5° | 3940.0 | 3279.2 | 2869.9 | 2828.0 | 2967.5 | 3400.4 | 3964.8 | 4186.6 | 3887.4 | 3797.9 |
| 35°   | 4048.2 | 3393.5 | 2977.0 | 2908.0 | 3090.2 | 3502.1 | 4078.0 | 4456.0 | 4147.7 | 4049.8 |
| 37.5° | 4149.6 | 3554.0 | 3144.3 | 3062.0 | 3282.6 | 3666.0 | 4197.6 | 4761.6 | 4438.8 | 4321.8 |
| 40°   | 4291.0 | 3735.7 | 3402.3 | 3329.1 | 3606.2 | 3889.3 | 4347.0 | 5080.2 | 4770.0 | 4622.9 |
| 42.5° | 4432.4 | 3930.9 | 3666.4 | 3686.2 | 4009.7 | 4160.7 | 4539.8 | 5417.1 | 5097.0 | 4940.0 |
| 45°   | 4561.5 | 4132.1 | 4042.5 | 4134.0 | 4384.3 | 4458.3 | 4731.5 | 5611.8 | 5358.0 | 5206.3 |
| 47.5° | 4676.6 | 4383.6 | 4416.4 | 4659.9 | 4810.4 | 4727.7 | 4874.8 | 5779.9 | 5552.4 | 5418.6 |
| 50°   | 4810.4 | 4709.0 | 4909.1 | 5253.6 | 5300.8 | 4971.6 | 5005.1 | 5978.8 | 5779.5 | 5672.0 |
| 52.5° | 4956.7 | 5052.0 | 5454.8 | 5758.5 | 5743.3 | 5236.4 | 5136.2 | 6201.7 | 6090.8 | 5989.8 |
| 55°   | 5122.9 | 5329.0 | 5935.3 | 6231.1 | 6218.1 | 5532.2 | 5353.4 | 6477.2 | 6481.1 | 6389.6 |
| 57.5° | 5369.4 | 5567.6 | 6261.6 | 6613.3 | 6635.0 | 5873.6 | 5721.6 | 6785.9 | 6833.9 | 6773.0 |
| 59°   | 5546.3 | 5722.3 | 6390.7 | 6773.0 | 6861.4 | 6137.7 | 5990.6 | 6965.0 | 6933.4 | 6877.8 |
| 60°   | 5677.4 | 5820.6 | 6454.8 | 6856.4 | 6992.9 | 6316.8 | 6189.1 | 7070.2 | 6945.2 | 6877.8 |
| 62.5° | 6001.7 | 6034.8 | 6570.2 | 6950.9 | 7144.1 | 6714.7 | 6747.8 | 7249.3 | 6863.3 | 6753.1 |
| 65°   | 6152.9 | 6170.1 | 6568.7 | 6781.7 | 6997.8 | 7024.5 | 7254.7 | 7254.7 | 6663.2 | 6494.0 |
| 67.5° | 6089.7 | 6007.0 | 6242.9 | 6220.8 | 6436.5 | 6840.4 | 7445.2 | 6988.7 | 6280.6 | 6061.9 |
| 70°   | 5575.2 | 5257.0 | 5152.2 | 5161.8 | 5326.8 | 5949.8 | 7067.9 | 6205.9 | 5556.6 | 5300.8 |
| 72.5° | 4638.9 | 3875.6 | 3616.8 | 3912.2 | 3955.2 | 4572.6 | 6023.4 | 4673.6 | 4097.8 | 3858.1 |
| 75°   | 3731.2 | 2732.0 | 2311.3 | 2623.0 | 2696.2 | 3346.3 | 4659.5 | 2910.7 | 2393.6 | 2206.8 |
| 77.5° | 2680.5 | 1961.0 | 1658.5 | 1636.7 | 1731.3 | 2122.2 | 3306.3 | 1464.9 | 1221.7 | 1140.2 |
| 80°   | 1522.8 | 1290.7 | 1389.8 | 1311.3 | 1358.9 | 1326.9 | 1570.8 | 642.5  | 526.3  | 492.0  |
| 82.5° | 919.2  | 762.9  | 826.2  | 687.9  | 870.4  | 758.0  | 605.2  | 205.8  | 178.7  | 170.0  |
| 85°   | 597.9  | 416.9  | 217.2  | 145.6  | 299.9  | 484.4  | 135.3  | 56.0   | 43.1   | 34.3   |
| 87.5° | 206.2  | 106.3  | 10.7   | 4.6    | 32.0   | 90.3   | 5.0    | 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    |

(END OF REPORT)