

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: McGRAW-EDISON

Report Number: P458990

Luminaire Tested: **GALN-SA5A-735-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458990  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5A-735-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18390 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

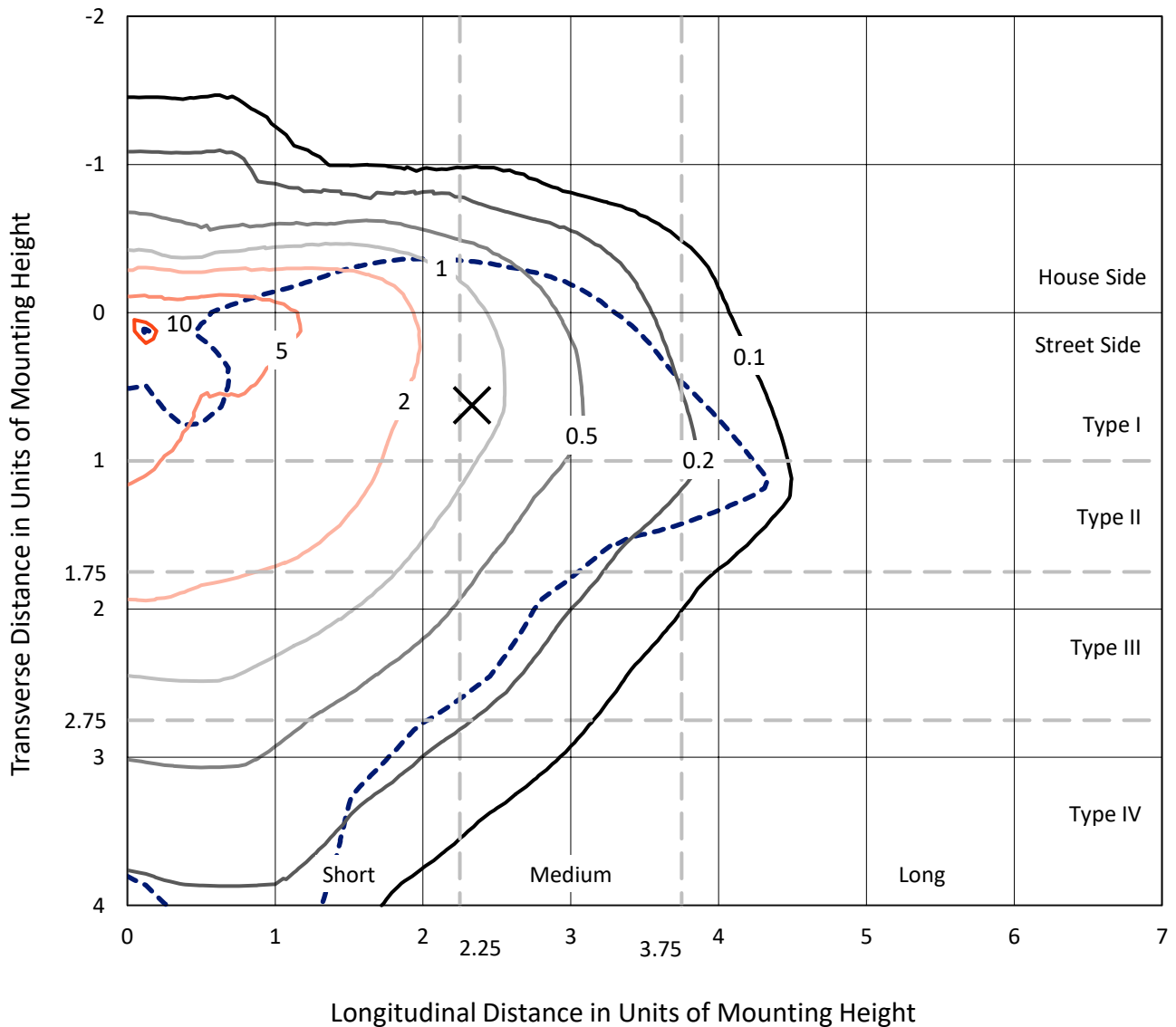
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

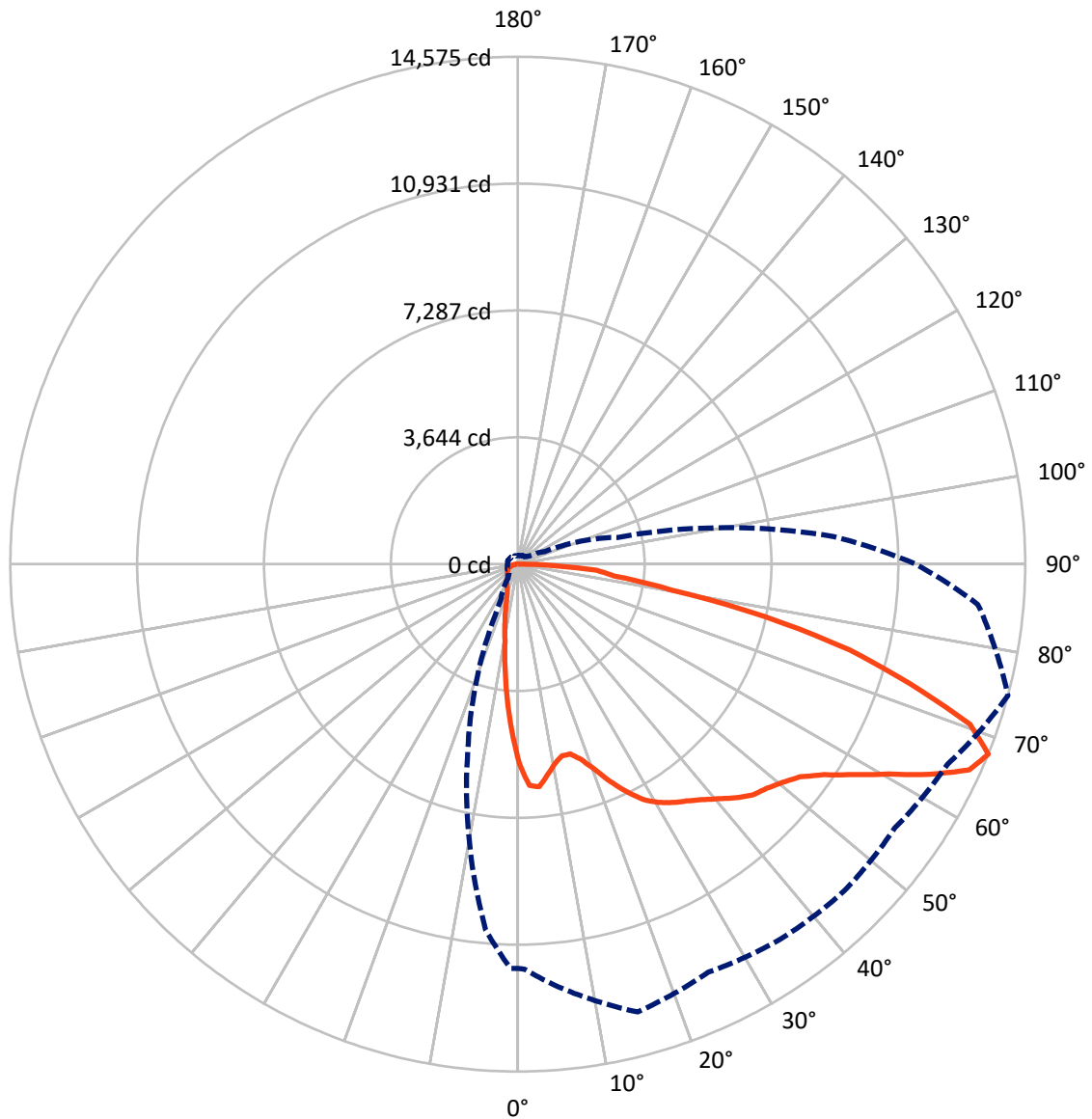
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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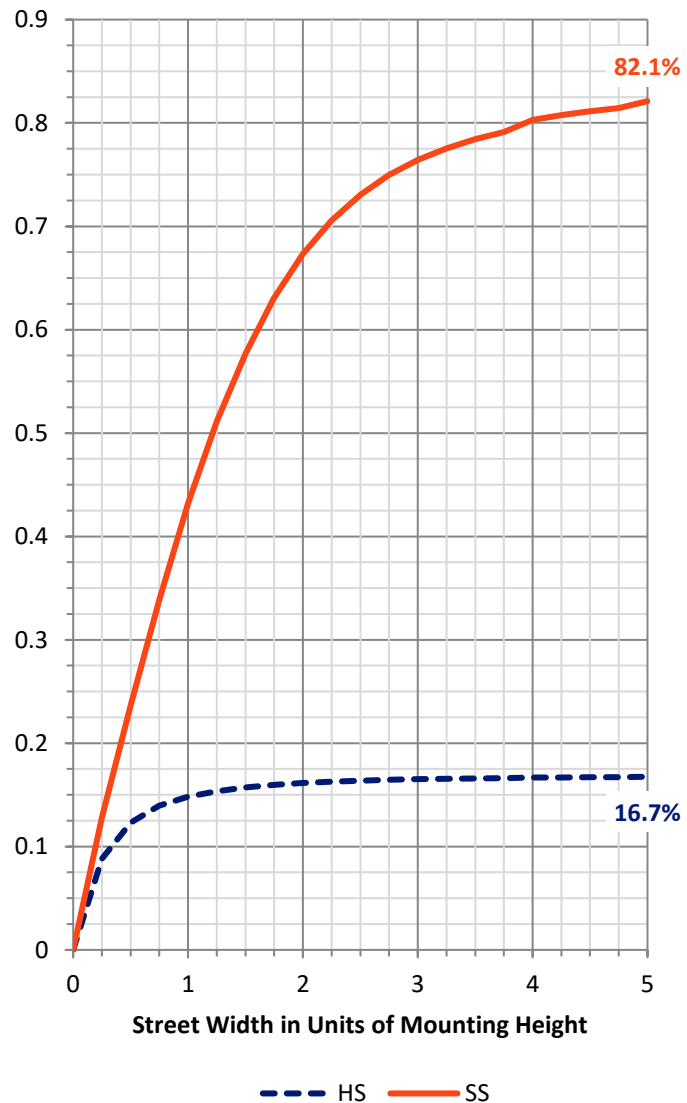
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3108.3   | 0.0    | 3108.3  |
|                    | % Fixture | 16.9     | 0.0    | 16.9    |
| <b>Street Side</b> | Lumens    | 15281.7  | 0.0    | 15281.7 |
|                    | % Fixture | 83.1     | 0.0    | 83.1    |
| <b>Total</b>       | Lumens    | 18390.0  | 0.0    | 18390.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 435.8   | 2.4       |
| 10°-20°   | 908.8   | 4.9       |
| 20°-30°   | 1307.8  | 7.1       |
| 30°-40°   | 1883.6  | 10.2      |
| 40°-50°   | 2646.0  | 14.4      |
| 50°-60°   | 3690.2  | 20.1      |
| 60°-70°   | 4387.4  | 23.9      |
| 70°-80°   | 2583.9  | 14.1      |
| 80°-90°   | 546.4   | 3.0       |
| 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°    | 18390.0 | 100.0     |
| 0°-180°   | 18390.0 | 100.0     |



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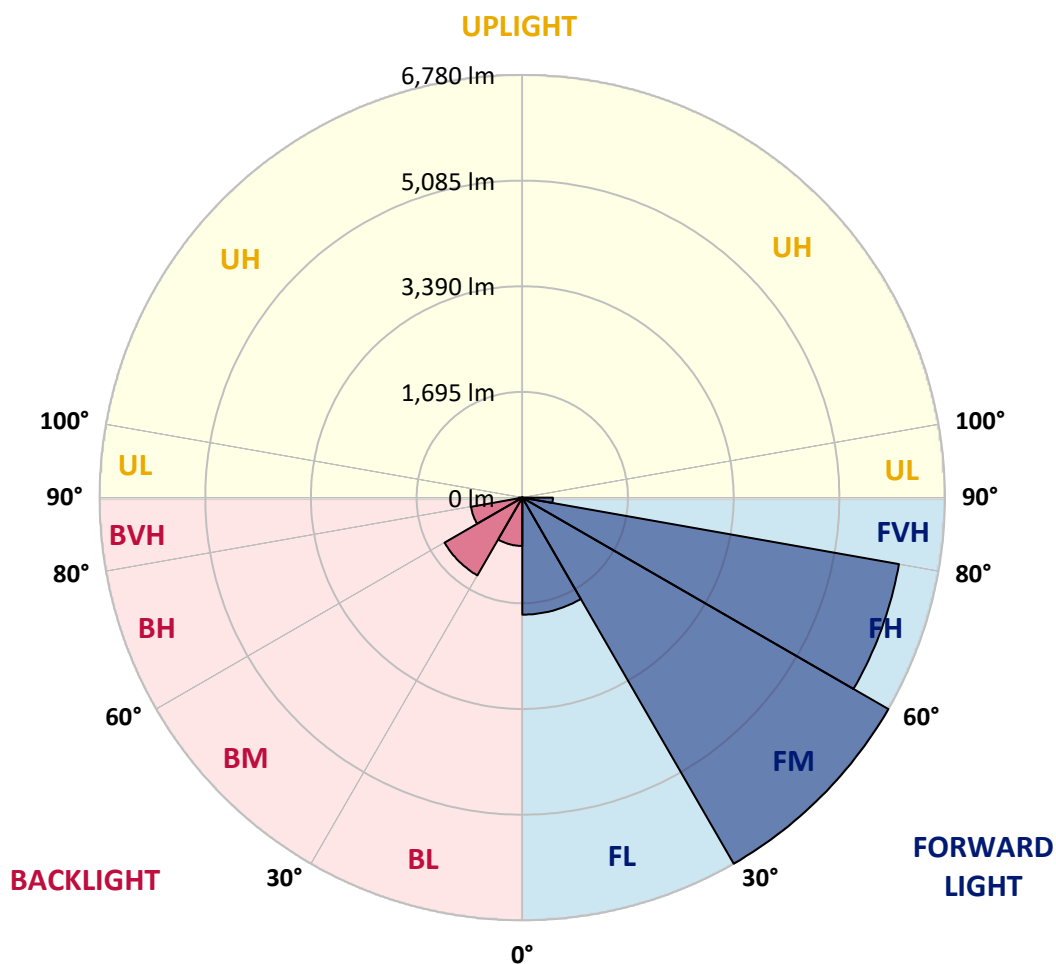
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1877.1 | 10.2      |                         |      |         |
| FM   | (30°-60°)   | 6779.7 | 36.9      |                         |      |         |
| FH   | (60°-80°)   | 6135.0 | 33.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 489.9  | 2.7       |                         |      | G3/500  |
| BL   | (0°-30°)    | 775.3  | 4.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1440.1 | 7.8       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 836.4  | 4.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 56.5   | 0.3       |                         |      | 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°    | 5745.5  | 5745.5  | 5745.5  | 5745.5  | 5745.5  | 5745.5  | 5745.5  | 5745.5  | 5745.5  | 5745.5  | 5745.5  |
| 2.5°  | 6194.8  | 6203.0  | 6256.1  | 6410.6  | 6516.7  | 6555.6  | 6582.8  | 6532.1  | 6482.5  | 6362.2  | 6180.6  |
| 5°    | 6175.9  | 6224.3  | 6362.2  | 6708.9  | 6982.5  | 7100.5  | 7135.8  | 6983.7  | 6732.5  | 6423.6  | 6052.1  |
| 7.5°  | 5815.0  | 5879.9  | 6092.2  | 6673.6  | 7155.9  | 7431.8  | 7395.3  | 7120.5  | 6667.7  | 6116.9  | 5598.1  |
| 10°   | 5387.0  | 5458.9  | 5714.8  | 6417.7  | 7039.1  | 7418.9  | 7418.9  | 7084.0  | 6482.5  | 5828.0  | 5230.1  |
| 12.5° | 5047.3  | 5122.8  | 5415.3  | 6154.7  | 6796.2  | 7155.9  | 7216.0  | 6928.3  | 6349.3  | 5645.2  | 4988.4  |
| 15°   | 4935.3  | 5008.4  | 5323.3  | 5995.5  | 6539.1  | 6758.5  | 6778.5  | 6684.2  | 6284.4  | 5658.2  | 4977.8  |
| 17.5° | 5074.5  | 5168.8  | 5487.2  | 6042.7  | 6303.3  | 6316.2  | 6331.6  | 6405.9  | 6291.5  | 5895.2  | 5192.4  |
| 20°   | 5476.6  | 5578.0  | 5910.6  | 6194.8  | 6096.9  | 5962.5  | 5970.7  | 6161.8  | 6375.2  | 6286.8  | 5705.4  |
| 22.5° | 6056.8  | 6145.2  | 6486.1  | 6462.5  | 6009.6  | 5732.5  | 5674.7  | 5941.2  | 6499.0  | 6775.0  | 6251.4  |
| 25°   | 6683.0  | 6786.8  | 7178.3  | 6859.9  | 6034.4  | 5595.7  | 5559.1  | 5811.5  | 6627.6  | 7231.4  | 6882.3  |
| 27.5° | 7400.0  | 7501.4  | 7810.4  | 7260.9  | 6164.1  | 5585.1  | 5541.5  | 5799.7  | 6743.1  | 7653.6  | 7484.9  |
| 30°   | 7933.0  | 8026.2  | 8236.1  | 7598.1  | 6323.3  | 5655.8  | 5601.6  | 5892.9  | 6842.2  | 7942.5  | 8072.2  |
| 32.5° | 8351.7  | 8448.4  | 8562.8  | 7808.0  | 6533.2  | 5784.4  | 5684.1  | 6062.7  | 6971.9  | 8163.0  | 8507.4  |
| 35°   | 8788.0  | 8902.4  | 8894.2  | 7994.4  | 6729.0  | 5933.0  | 5835.1  | 6308.0  | 7175.9  | 8355.2  | 9059.3  |
| 37.5° | 9341.1  | 9387.1  | 9328.1  | 8161.8  | 6963.7  | 6200.7  | 6146.4  | 6672.4  | 7466.0  | 8587.5  | 9704.3  |
| 40°   | 9902.4  | 9994.4  | 9691.4  | 8364.7  | 7249.1  | 6704.2  | 6698.3  | 7211.3  | 7810.4  | 8860.0  | 10329.3 |
| 42.5° | 10383.6 | 10461.4 | 10031.0 | 8541.6  | 7594.6  | 7318.6  | 7363.4  | 7934.2  | 8262.1  | 9176.0  | 10831.7 |
| 45°   | 10745.6 | 10815.2 | 10344.7 | 8712.5  | 8049.8  | 8028.6  | 8292.7  | 8709.0  | 8831.7  | 9460.2  | 11126.5 |
| 47.5° | 11053.4 | 11120.6 | 10562.8 | 8972.0  | 8612.3  | 8876.5  | 9336.4  | 9516.8  | 9318.7  | 9623.0  | 11456.7 |
| 50°   | 11312.9 | 11332.9 | 10712.6 | 9281.0  | 9310.4  | 9915.4  | 10361.2 | 10477.9 | 9799.8  | 9856.5  | 11743.3 |
| 52.5° | 11582.9 | 11557.0 | 10970.9 | 9670.1  | 10065.2 | 10901.3 | 11225.6 | 11347.1 | 10260.9 | 10144.2 | 12160.8 |
| 55°   | 12187.9 | 12212.7 | 11549.9 | 10160.7 | 10828.2 | 11869.5 | 12296.4 | 12179.6 | 10771.6 | 10673.7 | 12691.5 |
| 57.5° | 12919.1 | 12897.8 | 12364.8 | 10928.4 | 11605.3 | 12770.5 | 13088.9 | 12901.4 | 11453.2 | 11401.3 | 13229.2 |
| 60°   | 13203.3 | 13231.6 | 13046.4 | 11753.9 | 12371.9 | 13559.4 | 13884.9 | 13593.6 | 12270.4 | 12246.9 | 13634.9 |
| 62.5° | 12917.9 | 13077.1 | 13202.1 | 12488.6 | 13025.2 | 14139.6 | 14462.7 | 14130.2 | 13123.1 | 13294.1 | 13919.1 |
| 65°   | 12349.5 | 12383.7 | 12809.4 | 13111.3 | 13340.1 | 14235.1 | 14403.8 | 14226.9 | 13835.4 | 14248.1 | 13906.1 |
| 67.5° | 11611.2 | 11640.7 | 12139.5 | 13315.3 | 12934.4 | 13150.2 | 13268.1 | 13216.2 | 13614.8 | 14574.8 | 13265.8 |
| 70°   | 10908.4 | 10884.8 | 11411.9 | 12795.2 | 11259.8 | 10932.0 | 11029.8 | 10867.1 | 11748.0 | 13776.4 | 12009.8 |
| 72.5° | 9540.4  | 9625.3  | 10191.4 | 11349.4 | 8915.4  | 8382.4  | 8595.8  | 8174.8  | 9035.7  | 11798.7 | 9748.0  |
| 75°   | 7473.1  | 7493.2  | 8437.8  | 9525.1  | 6725.5  | 5884.6  | 6173.6  | 5997.8  | 6921.2  | 9842.3  | 6731.4  |
| 77.5° | 5174.7  | 5129.9  | 6145.2  | 7275.0  | 4796.1  | 4307.9  | 4312.6  | 4228.9  | 4832.7  | 7246.7  | 4573.3  |
| 80°   | 3286.7  | 3218.3  | 3846.8  | 4494.3  | 3296.1  | 3526.1  | 3410.5  | 3407.0  | 3146.3  | 4470.7  | 2765.4  |
| 82.5° | 1776.0  | 1851.5  | 2430.5  | 2817.3  | 2364.5  | 2725.3  | 2497.7  | 2424.6  | 2159.3  | 2798.4  | 1768.9  |
| 85°   | 809.0   | 879.7   | 1296.0  | 1916.3  | 1796.0  | 1816.1  | 1213.5  | 1431.7  | 1786.6  | 2272.5  | 944.6   |
| 87.5° | 79.0    | 101.4   | 267.7   | 904.5   | 613.2   | 483.5   | 180.4   | 347.9   | 449.3   | 807.8   | 75.5    |
| 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°    | 5745.5  | 5745.5  | 5745.5 | 5745.5 | 5745.5 | 5745.5 | 5745.5 | 5745.5 | 5745.5 | 5745.5 | 5745.5 |
| 2.5°  | 6106.3  | 6045.0  | 5836.3 | 5664.1 | 5481.3 | 5342.2 | 5160.5 | 5039.1 | 4955.4 | 4829.2 | 4813.8 |
| 5°    | 5825.7  | 5675.9  | 5312.7 | 4942.4 | 4622.8 | 4382.2 | 4138.1 | 3914.0 | 3782.0 | 3740.7 | 3687.6 |
| 7.5°  | 5352.8  | 5100.4  | 4633.4 | 4208.9 | 3842.1 | 3483.6 | 3207.7 | 3011.9 | 2881.0 | 2804.3 | 2712.4 |
| 10°   | 4963.6  | 4671.1  | 4102.7 | 3582.7 | 3280.8 | 3057.9 | 2815.0 | 2605.0 | 2443.5 | 2305.5 | 2230.0 |
| 12.5° | 4701.8  | 4371.6  | 3732.4 | 3310.2 | 3076.8 | 2839.7 | 2555.5 | 2319.7 | 2081.4 | 1924.6 | 1857.4 |
| 15°   | 4622.8  | 4273.7  | 3618.0 | 3174.6 | 2839.7 | 2529.6 | 2211.2 | 1903.4 | 1667.5 | 1518.9 | 1469.4 |
| 17.5° | 4816.2  | 4394.0  | 3616.9 | 2994.2 | 2561.4 | 2191.1 | 1783.1 | 1494.2 | 1252.4 | 1141.5 | 1106.2 |
| 20°   | 5177.1  | 4625.2  | 3627.5 | 2816.1 | 2259.5 | 1738.3 | 1297.2 | 1060.2 | 944.6  | 897.4  | 879.7  |
| 22.5° | 5680.6  | 4977.8  | 3659.3 | 2640.4 | 1929.3 | 1334.9 | 971.7  | 851.4  | 810.2  | 801.9  | 798.4  |
| 25°   | 6300.9  | 5414.1  | 3766.6 | 2482.4 | 1651.0 | 1018.9 | 812.5  | 758.3  | 734.7  | 726.4  | 725.3  |
| 27.5° | 6871.7  | 5977.8  | 3896.4 | 2346.8 | 1382.1 | 878.6  | 734.7  | 688.7  | 665.1  | 663.9  | 666.3  |
| 30°   | 7387.0  | 6449.5  | 4004.8 | 2194.6 | 1178.1 | 780.7  | 684.0  | 638.0  | 615.6  | 614.4  | 621.5  |
| 32.5° | 7832.8  | 6837.5  | 4085.0 | 2044.9 | 1064.9 | 720.5  | 638.0  | 588.5  | 569.6  | 566.1  | 569.6  |
| 35°   | 8309.2  | 7224.3  | 4048.5 | 1928.1 | 1000.0 | 671.0  | 603.8  | 555.4  | 533.0  | 522.4  | 522.4  |
| 37.5° | 8852.9  | 7622.9  | 3986.0 | 1831.4 | 970.6  | 629.7  | 574.3  | 527.1  | 504.7  | 494.1  | 492.9  |
| 40°   | 9446.1  | 8021.5  | 3899.9 | 1745.3 | 941.1  | 605.0  | 554.3  | 504.7  | 477.6  | 467.0  | 464.6  |
| 42.5° | 9969.7  | 8362.3  | 3829.1 | 1688.7 | 892.7  | 609.7  | 536.6  | 488.2  | 454.0  | 439.9  | 438.7  |
| 45°   | 10424.9 | 8705.5  | 3816.2 | 1655.7 | 852.6  | 602.6  | 531.9  | 475.3  | 435.2  | 419.8  | 417.5  |
| 47.5° | 10781.0 | 9062.8  | 3890.5 | 1636.8 | 809.0  | 564.9  | 562.5  | 467.0  | 418.6  | 402.1  | 399.8  |
| 50°   | 11215.0 | 9569.9  | 4060.3 | 1597.9 | 768.9  | 529.5  | 594.4  | 465.8  | 405.7  | 384.4  | 378.6  |
| 52.5° | 11792.8 | 10230.3 | 4290.2 | 1528.4 | 711.1  | 496.5  | 567.2  | 465.8  | 390.3  | 369.1  | 362.0  |
| 55°   | 12666.7 | 11072.3 | 4515.5 | 1430.5 | 629.7  | 452.8  | 511.8  | 451.7  | 367.9  | 349.1  | 344.4  |
| 57.5° | 13245.7 | 11687.9 | 4659.4 | 1294.9 | 528.3  | 421.0  | 441.1  | 429.3  | 345.5  | 325.5  | 325.5  |
| 60°   | 13275.2 | 11853.0 | 4591.0 | 1123.9 | 464.6  | 391.5  | 383.3  | 432.8  | 325.5  | 304.3  | 301.9  |
| 62.5° | 12935.6 | 11448.5 | 4234.8 | 970.6  | 430.4  | 359.7  | 346.7  | 379.7  | 305.4  | 284.2  | 280.7  |
| 65°   | 12404.9 | 10416.6 | 3616.9 | 897.4  | 411.6  | 331.4  | 312.5  | 311.3  | 284.2  | 264.2  | 259.4  |
| 67.5° | 11429.6 | 9102.9  | 2971.8 | 855.0  | 402.1  | 299.5  | 281.8  | 276.0  | 259.4  | 242.9  | 240.6  |
| 70°   | 9992.1  | 7624.1  | 2383.3 | 837.3  | 397.4  | 266.5  | 252.4  | 245.3  | 231.1  | 218.2  | 217.0  |
| 72.5° | 7773.8  | 6184.2  | 1967.0 | 825.5  | 395.1  | 235.9  | 220.5  | 211.1  | 202.8  | 191.0  | 191.0  |
| 75°   | 5583.9  | 4549.7  | 1501.2 | 744.1  | 365.6  | 202.8  | 186.3  | 180.4  | 168.6  | 159.2  | 161.6  |
| 77.5° | 3520.2  | 3063.8  | 988.2  | 547.2  | 283.0  | 162.7  | 148.6  | 145.1  | 135.6  | 122.6  | 130.9  |
| 80°   | 2377.4  | 2154.6  | 576.7  | 344.4  | 178.1  | 119.1  | 114.4  | 113.2  | 102.6  | 88.4   | 89.6   |
| 82.5° | 1618.0  | 1587.3  | 299.5  | 195.8  | 102.6  | 69.6   | 67.2   | 69.6   | 57.8   | 47.2   | 47.2   |
| 85°   | 632.1   | 863.2   | 141.5  | 76.7   | 33.0   | 10.6   | 15.3   | 16.5   | 9.4    | 4.7    | 5.9    |
| 87.5° | 11.8    | 88.4    | 3.5    | 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°    | 5745.5 | 5745.5 | 5745.5 | 5745.5 | 5745.5 | 5745.5 | 5745.5 | 5745.5 | 5745.5 | 5745.5 | 5745.5 |
| 2.5°  | 4790.3 | 4779.6 | 4797.3 | 4721.9 | 4737.2 | 4765.5 | 4779.6 | 4787.9 | 4904.6 | 4877.5 | 4951.8 |
| 5°    | 3737.2 | 3726.5 | 3794.9 | 3804.4 | 3839.7 | 3832.7 | 3866.9 | 3875.1 | 3917.6 | 3932.9 | 4036.7 |
| 7.5°  | 2718.2 | 2764.2 | 2842.1 | 2882.2 | 2942.3 | 2961.2 | 2943.5 | 2987.1 | 2898.7 | 2962.4 | 2981.2 |
| 10°   | 2184.0 | 2128.6 | 2095.6 | 2187.6 | 2199.4 | 2286.6 | 2251.3 | 2223.0 | 2274.8 | 2277.2 | 2326.7 |
| 12.5° | 1818.5 | 1699.3 | 1620.3 | 1646.3 | 1674.6 | 1712.3 | 1718.2 | 1774.8 | 1812.6 | 1847.9 | 1877.4 |
| 15°   | 1425.8 | 1384.5 | 1312.5 | 1277.2 | 1317.3 | 1332.6 | 1369.1 | 1416.3 | 1456.4 | 1467.0 | 1507.1 |
| 17.5° | 1094.4 | 1101.5 | 1089.7 | 1068.4 | 1093.2 | 1105.0 | 1107.3 | 1108.5 | 1119.1 | 1112.1 | 1171.0 |
| 20°   | 880.9  | 905.7  | 935.2  | 939.9  | 948.1  | 954.0  | 943.4  | 903.3  | 904.5  | 929.3  | 948.1  |
| 22.5° | 797.2  | 801.9  | 834.9  | 845.5  | 871.5  | 860.9  | 830.2  | 811.3  | 809.0  | 814.9  | 824.3  |
| 25°   | 731.2  | 738.2  | 761.8  | 778.3  | 798.4  | 779.5  | 757.1  | 739.4  | 737.1  | 742.9  | 752.4  |
| 27.5° | 672.2  | 682.8  | 704.0  | 720.5  | 739.4  | 721.7  | 700.5  | 685.2  | 684.0  | 682.8  | 688.7  |
| 30°   | 625.0  | 636.8  | 652.1  | 671.0  | 684.0  | 668.7  | 648.6  | 640.4  | 639.2  | 636.8  | 639.2  |
| 32.5° | 577.8  | 596.7  | 612.0  | 621.5  | 634.5  | 622.7  | 607.3  | 602.6  | 594.4  | 587.3  | 583.7  |
| 35°   | 524.8  | 544.8  | 568.4  | 580.2  | 593.2  | 581.4  | 570.8  | 550.7  | 536.6  | 535.4  | 537.8  |
| 37.5° | 494.1  | 502.4  | 521.2  | 541.3  | 554.3  | 548.4  | 528.3  | 508.3  | 504.7  | 504.7  | 507.1  |
| 40°   | 467.0  | 470.5  | 478.8  | 504.7  | 528.3  | 510.6  | 485.9  | 480.0  | 480.0  | 478.8  | 480.0  |
| 42.5° | 439.9  | 443.4  | 443.4  | 463.5  | 501.2  | 472.9  | 454.0  | 454.0  | 454.0  | 455.2  | 458.7  |
| 45°   | 415.1  | 416.3  | 415.1  | 429.3  | 464.6  | 441.1  | 428.1  | 431.6  | 434.0  | 436.3  | 438.7  |
| 47.5° | 393.9  | 395.1  | 393.9  | 405.7  | 423.4  | 413.9  | 406.9  | 411.6  | 416.3  | 419.8  | 422.2  |
| 50°   | 375.0  | 373.8  | 376.2  | 383.3  | 391.5  | 393.9  | 389.2  | 396.2  | 398.6  | 403.3  | 409.2  |
| 52.5° | 358.5  | 357.3  | 359.7  | 363.2  | 375.0  | 375.0  | 375.0  | 380.9  | 385.6  | 390.3  | 398.6  |
| 55°   | 339.6  | 340.8  | 344.4  | 349.1  | 364.4  | 362.0  | 363.2  | 367.9  | 372.7  | 379.7  | 384.4  |
| 57.5° | 321.9  | 324.3  | 329.0  | 336.1  | 351.4  | 350.2  | 351.4  | 353.8  | 359.7  | 363.2  | 367.9  |
| 60°   | 301.9  | 306.6  | 312.5  | 317.2  | 332.6  | 331.4  | 337.3  | 342.0  | 345.5  | 345.5  | 347.9  |
| 62.5° | 281.8  | 288.9  | 294.8  | 298.4  | 314.9  | 316.0  | 324.3  | 327.8  | 330.2  | 327.8  | 331.4  |
| 65°   | 261.8  | 272.4  | 274.8  | 279.5  | 296.0  | 297.2  | 306.6  | 314.9  | 312.5  | 310.2  | 316.0  |
| 67.5° | 241.8  | 254.7  | 253.5  | 259.4  | 276.0  | 278.3  | 286.6  | 300.7  | 296.0  | 293.6  | 298.4  |
| 70°   | 219.3  | 228.8  | 230.0  | 233.5  | 255.9  | 252.4  | 265.3  | 278.3  | 274.8  | 276.0  | 276.0  |
| 72.5° | 194.6  | 202.8  | 202.8  | 209.9  | 233.5  | 227.6  | 238.2  | 252.4  | 252.4  | 251.2  | 251.2  |
| 75°   | 165.1  | 169.8  | 174.5  | 185.1  | 209.9  | 202.8  | 209.9  | 222.9  | 225.2  | 222.9  | 222.9  |
| 77.5° | 133.3  | 140.3  | 142.7  | 156.8  | 174.5  | 173.4  | 180.4  | 186.3  | 191.0  | 188.7  | 188.7  |
| 80°   | 94.3   | 101.4  | 110.9  | 126.2  | 136.8  | 140.3  | 143.9  | 148.6  | 150.9  | 150.9  | 153.3  |
| 82.5° | 53.1   | 63.7   | 71.9   | 87.3   | 92.0   | 109.7  | 108.5  | 112.0  | 108.5  | 95.5   | 106.1  |
| 85°   | 11.8   | 22.4   | 31.8   | 40.1   | 46.0   | 63.7   | 67.2   | 75.5   | 62.5   | 57.8   | 57.8   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 9.4    | 18.9   | 25.9   | 22.4   | 18.9   | 18.9   |
| 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°    | 5745.5 | 5745.5 | 5745.5 | 5745.5 | 5745.5 | 5745.5 | 5745.5 | 5745.5  | 5745.5  | 5745.5  |
| 2.5°  | 5014.3 | 5116.9 | 5240.7 | 5454.2 | 5604.0 | 5765.5 | 5928.3 | 6101.6  | 6147.6  | 6194.8  |
| 5°    | 4065.0 | 4266.6 | 4376.3 | 4662.9 | 4963.6 | 5345.7 | 5658.2 | 6000.2  | 6142.9  | 6175.9  |
| 7.5°  | 3079.1 | 3215.9 | 3503.7 | 3793.8 | 4166.4 | 4567.4 | 5046.2 | 5579.2  | 5745.5  | 5815.0  |
| 10°   | 2441.1 | 2627.4 | 2879.8 | 3191.1 | 3517.8 | 3949.4 | 4489.5 | 5112.2  | 5348.1  | 5387.0  |
| 12.5° | 2077.9 | 2285.5 | 2560.2 | 2889.2 | 3198.2 | 3523.7 | 4068.5 | 4711.2  | 4963.6  | 5047.3  |
| 15°   | 1661.6 | 1912.8 | 2230.0 | 2576.7 | 2912.8 | 3269.0 | 3820.9 | 4546.1  | 4837.4  | 4935.3  |
| 17.5° | 1305.5 | 1508.3 | 1851.5 | 2227.7 | 2626.3 | 3076.8 | 3769.0 | 4625.2  | 4983.7  | 5074.5  |
| 20°   | 998.9  | 1143.9 | 1432.8 | 1830.2 | 2297.2 | 2886.9 | 3782.0 | 4923.5  | 5352.8  | 5476.6  |
| 22.5° | 863.2  | 937.5  | 1113.2 | 1491.8 | 2014.2 | 2721.8 | 3835.0 | 5332.7  | 5850.4  | 6056.8  |
| 25°   | 781.9  | 820.8  | 919.8  | 1167.5 | 1744.2 | 2561.4 | 3956.5 | 5883.4  | 6546.2  | 6683.0  |
| 27.5° | 712.3  | 740.6  | 801.9  | 980.0  | 1498.9 | 2412.8 | 4098.0 | 6494.3  | 7196.0  | 7400.0  |
| 30°   | 646.2  | 684.0  | 741.8  | 870.3  | 1342.0 | 2277.2 | 4276.1 | 6989.6  | 7743.2  | 7933.0  |
| 32.5° | 595.5  | 633.3  | 686.3  | 793.7  | 1208.8 | 2134.5 | 4382.2 | 7424.8  | 8190.1  | 8351.7  |
| 35°   | 554.3  | 586.1  | 641.5  | 732.3  | 1107.3 | 2026.0 | 4361.0 | 7770.3  | 8622.9  | 8788.0  |
| 37.5° | 524.8  | 551.9  | 607.3  | 674.6  | 1030.7 | 1912.8 | 4350.4 | 8226.7  | 9150.1  | 9341.1  |
| 40°   | 497.7  | 526.0  | 576.7  | 636.8  | 954.0  | 1779.5 | 4356.3 | 8679.5  | 9711.4  | 9902.4  |
| 42.5° | 476.4  | 508.3  | 549.5  | 626.2  | 875.0  | 1672.2 | 4356.3 | 9073.4  | 10199.6 | 10383.6 |
| 45°   | 458.7  | 492.9  | 533.0  | 625.0  | 812.5  | 1590.9 | 4326.8 | 9411.9  | 10588.8 | 10745.6 |
| 47.5° | 443.4  | 481.1  | 538.9  | 603.8  | 797.2  | 1531.9 | 4300.8 | 9683.1  | 10906.0 | 11053.4 |
| 50°   | 432.8  | 477.6  | 573.1  | 579.0  | 801.9  | 1514.2 | 4425.9 | 10025.1 | 11185.5 | 11312.9 |
| 52.5° | 424.5  | 478.8  | 572.0  | 542.5  | 793.7  | 1526.0 | 4686.5 | 10559.3 | 11573.5 | 11582.9 |
| 55°   | 408.0  | 477.6  | 542.5  | 501.2  | 759.5  | 1546.0 | 5021.4 | 11335.3 | 12180.8 | 12187.9 |
| 57.5° | 391.5  | 464.6  | 503.6  | 465.8  | 689.9  | 1546.0 | 5424.7 | 12070.0 | 12913.2 | 12919.1 |
| 60°   | 375.0  | 483.5  | 442.2  | 435.2  | 599.1  | 1517.7 | 5850.4 | 12393.1 | 13143.1 | 13203.3 |
| 62.5° | 358.5  | 487.0  | 395.1  | 408.0  | 533.0  | 1449.3 | 6167.7 | 12035.8 | 12831.8 | 12917.9 |
| 65°   | 339.6  | 392.7  | 364.4  | 379.7  | 498.8  | 1334.9 | 6067.4 | 11381.3 | 12246.9 | 12349.5 |
| 67.5° | 317.2  | 332.6  | 331.4  | 350.2  | 487.0  | 1166.3 | 5539.1 | 10553.4 | 11617.1 | 11611.2 |
| 70°   | 290.1  | 298.4  | 301.9  | 321.9  | 464.6  | 1035.4 | 4615.7 | 9479.1  | 10776.3 | 10908.4 |
| 72.5° | 261.8  | 268.9  | 272.4  | 290.1  | 442.2  | 961.1  | 3582.7 | 7999.1  | 9334.0  | 9540.4  |
| 75°   | 231.1  | 235.9  | 240.6  | 255.9  | 418.6  | 851.4  | 2552.0 | 6106.3  | 7148.8  | 7473.1  |
| 77.5° | 199.3  | 199.3  | 205.2  | 220.5  | 352.6  | 702.9  | 1712.3 | 4283.2  | 4843.3  | 5174.7  |
| 80°   | 161.6  | 162.7  | 160.4  | 176.9  | 259.4  | 481.1  | 972.9  | 2860.9  | 3223.0  | 3286.7  |
| 82.5° | 123.8  | 120.3  | 121.5  | 129.7  | 193.4  | 327.8  | 518.9  | 1777.2  | 1811.4  | 1776.0  |
| 85°   | 77.8   | 77.8   | 75.5   | 84.9   | 123.8  | 171.0  | 283.0  | 1088.5  | 850.3   | 809.0   |
| 87.5° | 31.8   | 25.9   | 29.5   | 34.2   | 59.0   | 69.6   | 110.9  | 224.1   | 86.1    | 79.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |

(END OF REPORT)