

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: P454671

Luminaire Tested: **GLAN-SA5D-740-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454671  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5D-740-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33394 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 309  
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



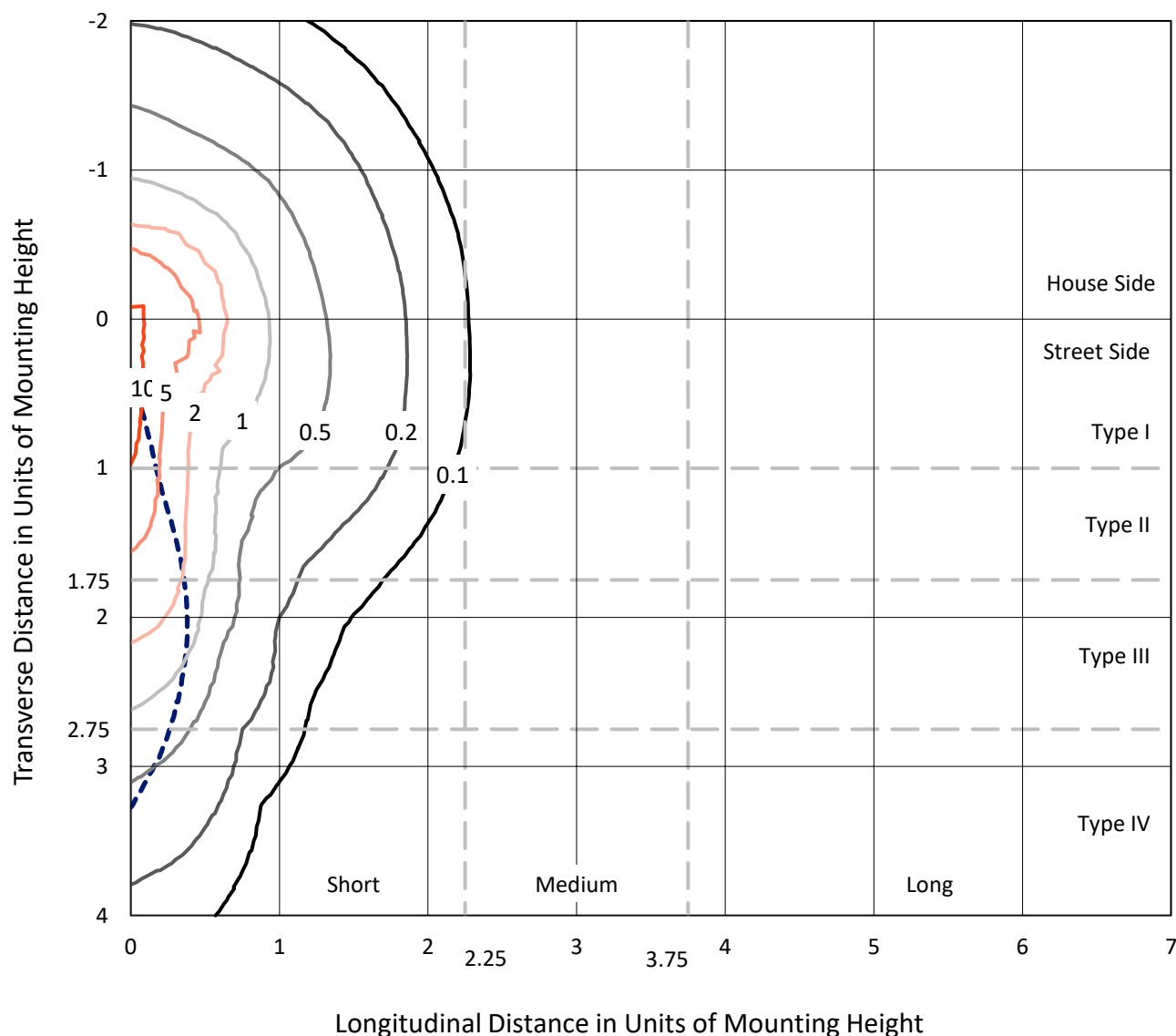
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



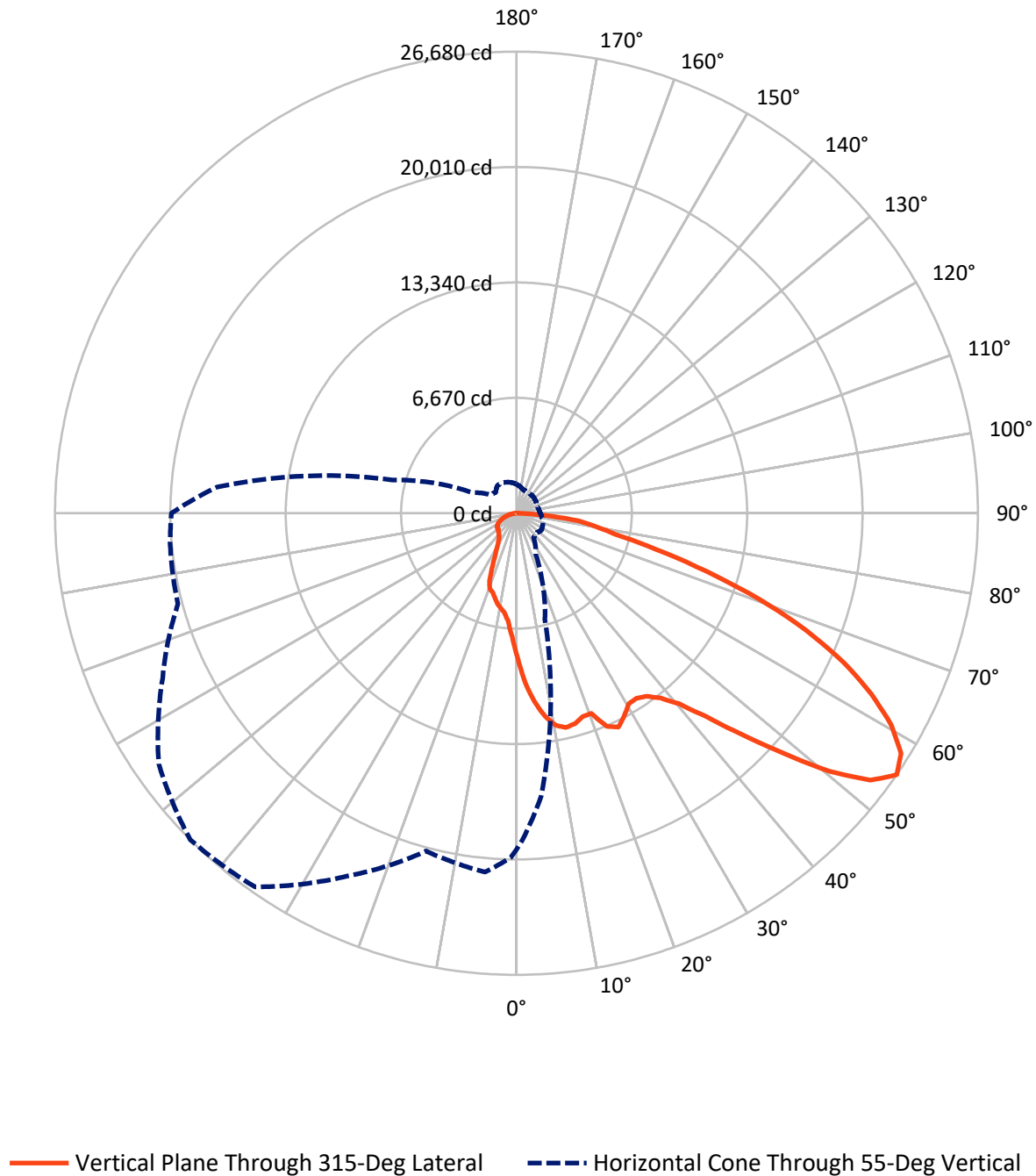
Based on 25 foot mounting height. Maximum calculated value = 14.4 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7304.8   | 0.0    | 7304.8  |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 26089.2  | 0.0    | 26089.2 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 33394.0  | 0.0    | 33394.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 710.3   | 2.1       |
| 10°-20°   | 1884.4  | 5.6       |
| 20°-30°   | 3255.4  | 9.7       |
| 30°-40°   | 3783.3  | 11.3      |
| 40°-50°   | 5278.4  | 15.8      |
| 50°-60°   | 7162.2  | 21.4      |
| 60°-70°   | 6814.0  | 20.4      |
| 70°-80°   | 3681.1  | 11.0      |
| 80°-90°   | 825.0   | 2.5       |
| 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°    | 33394.0 | 100.0     |
| 0°-180°   | 33394.0 | 100.0     |

**Coefficient of Utilization**



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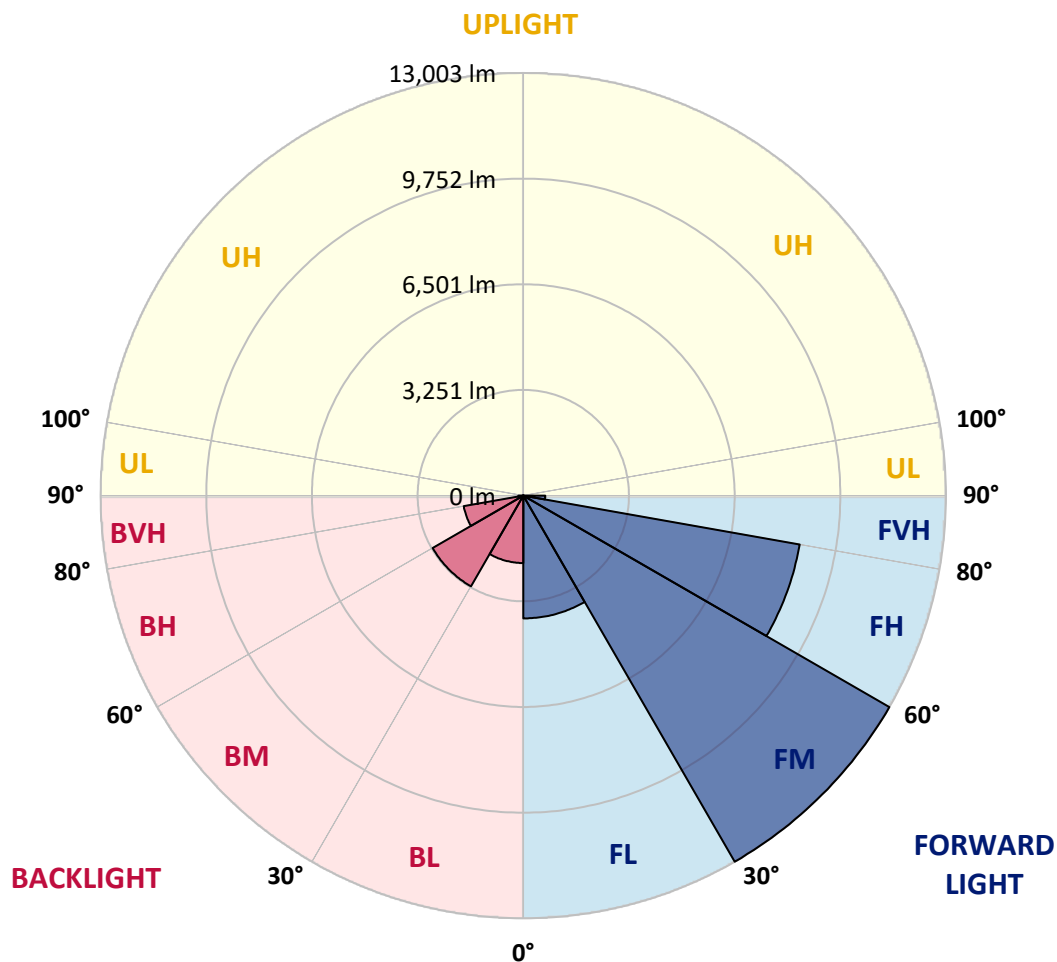
CATALOG NUMBER: GLAN-SA5D-740-U-SLR

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3776.9  | 11.3      |                         |      |          |
| FM   | (30°-60°)   | 13002.9 | 38.9      |                         |      |          |
| FH   | (60°-80°)   | 8635.1  | 25.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 674.2   | 2.0       |                         |      | G4/750   |
| BL   | (0°-30°)    | 2073.1  | 6.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3220.9  | 9.6       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1860.0  | 5.6       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 150.8   | 0.5       |                         |      | G2/225   |
| 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8380.6  | 8380.6  | 8380.6  | 8380.6 | 8380.6 | 8380.6 | 8380.6 | 8380.6 | 8380.6 | 8380.6 | 8380.6 |
| 2.5°  | 9310.3  | 9275.0  | 9175.9  | 8915.9 | 8653.8 | 8387.2 | 8182.3 | 7926.8 | 7660.2 | 7517.0 | 7334.1 |
| 5°    | 9438.1  | 9398.4  | 9164.9  | 8578.9 | 8047.9 | 7490.5 | 7045.5 | 6655.6 | 6496.9 | 6263.4 | 6076.1 |
| 7.5°  | 9138.5  | 9120.8  | 8770.5  | 7929.0 | 7201.9 | 6472.7 | 5968.2 | 5655.4 | 5371.2 | 5265.4 | 5287.4 |
| 10°   | 8865.3  | 8794.8  | 8356.4  | 7257.0 | 6408.8 | 5816.2 | 5454.9 | 5148.6 | 4948.2 | 4895.3 | 4906.3 |
| 12.5° | 8638.4  | 8543.6  | 8025.9  | 6805.4 | 6062.9 | 5589.3 | 5128.8 | 4809.4 | 4626.5 | 4677.2 | 4849.0 |
| 15°   | 8592.1  | 8464.3  | 7887.1  | 6651.2 | 5873.5 | 5263.2 | 4758.7 | 4390.8 | 4254.2 | 4364.3 | 4639.7 |
| 17.5° | 8891.7  | 8730.9  | 8125.0  | 6701.8 | 5692.8 | 4930.5 | 4311.5 | 3890.7 | 3776.1 | 3952.4 | 4311.5 |
| 20°   | 9854.5  | 9616.5  | 8867.5  | 6994.8 | 5675.2 | 4765.3 | 4051.5 | 3628.5 | 3677.0 | 4011.8 | 4386.4 |
| 22.5° | 11634.6 | 11277.7 | 10167.3 | 7422.2 | 5767.7 | 4723.4 | 3998.6 | 3778.3 | 4044.9 | 4329.1 | 4575.8 |
| 25°   | 11987.1 | 11707.3 | 10400.8 | 7519.2 | 5747.9 | 4694.8 | 4148.4 | 4258.6 | 4556.0 | 4697.0 | 4611.1 |
| 27.5° | 12185.3 | 11865.9 | 10385.4 | 7038.9 | 5139.8 | 4258.6 | 3965.6 | 4148.4 | 4223.3 | 4086.7 | 3853.2 |
| 30°   | 12648.0 | 12315.3 | 10647.6 | 6534.4 | 4232.2 | 3159.2 | 2769.3 | 2694.4 | 2745.1 | 2771.5 | 2687.8 |
| 32.5° | 13284.7 | 12956.4 | 11141.1 | 6203.9 | 3659.3 | 2612.9 | 2229.5 | 2123.8 | 2099.6 | 2070.9 | 2037.9 |
| 35°   | 14108.6 | 13604.1 | 11625.8 | 5992.4 | 3423.6 | 2416.8 | 2064.3 | 1982.8 | 1949.7 | 1910.1 | 1874.8 |
| 37.5° | 14945.8 | 14417.1 | 12238.2 | 5769.9 | 3267.2 | 2280.2 | 1954.1 | 1916.7 | 1859.4 | 1817.6 | 1766.9 |
| 40°   | 15835.9 | 15243.2 | 12795.6 | 5576.0 | 3115.2 | 2192.1 | 1874.8 | 1870.4 | 1795.5 | 1747.1 | 1687.6 |
| 42.5° | 16607.0 | 15996.7 | 13293.5 | 5457.1 | 2998.4 | 2099.6 | 1826.4 | 1839.6 | 1762.5 | 1689.8 | 1612.7 |
| 45°   | 17219.4 | 16620.2 | 13753.9 | 5457.1 | 2903.7 | 2007.0 | 1817.6 | 1808.7 | 1731.6 | 1641.3 | 1553.2 |
| 47.5° | 17757.0 | 17137.9 | 14203.4 | 5595.9 | 2844.2 | 1929.9 | 1769.1 | 1784.5 | 1705.2 | 1590.6 | 1504.7 |
| 50°   | 18173.4 | 17627.0 | 14809.2 | 5811.8 | 2784.7 | 1868.2 | 1707.4 | 1791.1 | 1683.2 | 1564.2 | 1465.1 |
| 52.5° | 18704.3 | 18215.2 | 15538.5 | 6107.0 | 2734.0 | 1799.9 | 1652.3 | 1791.1 | 1681.0 | 1566.4 | 1458.5 |
| 55°   | 19440.1 | 18924.6 | 16417.5 | 6351.5 | 2652.5 | 1736.0 | 1603.9 | 1740.4 | 1674.4 | 1555.4 | 1440.8 |
| 57.5° | 19955.7 | 19570.1 | 17038.8 | 6514.6 | 2535.8 | 1654.5 | 1559.8 | 1692.0 | 1645.7 | 1513.5 | 1388.0 |
| 58°   | 19979.9 | 19603.2 | 17129.1 | 6552.0 | 2507.1 | 1639.1 | 1548.8 | 1669.9 | 1632.5 | 1495.9 | 1370.3 |
| 60°   | 19702.3 | 19378.5 | 17146.7 | 6499.1 | 2344.1 | 1562.0 | 1491.5 | 1579.6 | 1562.0 | 1392.4 | 1275.6 |
| 62.5° | 18693.3 | 18347.4 | 16435.1 | 6069.5 | 2128.2 | 1467.3 | 1403.4 | 1458.5 | 1418.8 | 1247.0 | 1139.0 |
| 65°   | 17259.1 | 16622.4 | 14972.3 | 5395.4 | 1974.0 | 1365.9 | 1284.4 | 1288.8 | 1247.0 | 1123.6 | 1028.8 |
| 67.5° | 15349.0 | 14637.4 | 12676.6 | 4547.2 | 1857.2 | 1253.6 | 1143.4 | 1132.4 | 1081.7 | 1002.4 | 925.3  |
| 70°   | 12998.3 | 12511.4 | 10301.7 | 3699.0 | 1727.2 | 1130.2 | 984.8  | 978.2  | 947.3  | 887.8  | 819.6  |
| 72.5° | 10535.2 | 9916.1  | 8318.9  | 2961.0 | 1568.6 | 1011.2 | 837.2  | 850.4  | 810.7  | 768.9  | 707.2  |
| 75°   | 7774.7  | 7369.4  | 6430.8  | 2374.9 | 1354.9 | 881.2  | 698.4  | 702.8  | 685.2  | 641.1  | 592.6  |
| 77.5° | 5120.0  | 4998.8  | 4600.1  | 1559.8 | 1042.1 | 700.6  | 570.6  | 575.0  | 561.8  | 522.1  | 471.5  |
| 80°   | 3445.6  | 3364.1  | 3117.4  | 1004.6 | 696.2  | 506.7  | 440.6  | 445.0  | 442.8  | 401.0  | 332.7  |
| 82.5° | 2123.8  | 2088.5  | 2009.2  | 678.6  | 482.5  | 363.5  | 290.8  | 304.0  | 328.3  | 282.0  | 226.9  |
| 85°   | 1002.4  | 1004.6  | 1213.9  | 370.1  | 284.2  | 233.5  | 158.6  | 169.6  | 169.6  | 169.6  | 127.8  |
| 87.5° | 130.0   | 136.6   | 167.4   | 156.4  | 103.5  | 88.1   | 57.3   | 48.5   | 41.9   | 55.1   | 39.7   |
| 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°    | 8380.6 | 8380.6 | 8380.6 | 8380.6 | 8380.6 | 8380.6 | 8380.6 | 8380.6 | 8380.6 | 8380.6 | 8380.6 |
| 2.5°  | 7270.2 | 7226.2 | 7131.4 | 7109.4 | 7096.2 | 7133.6 | 7034.5 | 7060.9 | 7016.9 | 7140.2 | 7120.4 |
| 5°    | 6087.2 | 6091.6 | 6168.7 | 6219.3 | 6237.0 | 6219.3 | 6153.3 | 6038.7 | 5950.6 | 5915.3 | 5924.1 |
| 7.5°  | 5245.6 | 5322.7 | 5454.9 | 5602.5 | 5736.9 | 5776.5 | 5739.1 | 5521.0 | 5283.0 | 5133.2 | 5084.8 |
| 10°   | 4965.8 | 5069.3 | 5221.3 | 5338.1 | 5457.1 | 5551.8 | 5571.6 | 5402.0 | 5120.0 | 4765.3 | 4626.5 |
| 12.5° | 4981.2 | 5122.2 | 5267.6 | 5305.1 | 5294.0 | 5331.5 | 5313.9 | 5285.2 | 5100.2 | 4648.5 | 4417.2 |
| 15°   | 4835.8 | 5003.2 | 5104.6 | 5084.8 | 5049.5 | 5016.5 | 4970.2 | 4897.5 | 4831.4 | 4514.2 | 4258.6 |
| 17.5° | 4500.9 | 4672.8 | 4756.5 | 4763.1 | 4763.1 | 4754.3 | 4641.9 | 4615.5 | 4606.7 | 4452.5 | 4296.0 |
| 20°   | 4562.6 | 4657.4 | 4619.9 | 4558.2 | 4575.8 | 4635.3 | 4569.2 | 4556.0 | 4606.7 | 4675.0 | 4646.3 |
| 22.5° | 4597.9 | 4564.8 | 4282.8 | 4009.6 | 3948.0 | 4133.0 | 4170.5 | 4318.1 | 4523.0 | 4769.7 | 4930.5 |
| 25°   | 4379.8 | 4113.2 | 3608.7 | 3300.2 | 3126.2 | 3298.0 | 3522.8 | 3795.9 | 4102.2 | 4419.4 | 4606.7 |
| 27.5° | 3661.6 | 3458.9 | 3097.6 | 2820.0 | 2668.0 | 2694.4 | 2886.1 | 3135.0 | 3419.2 | 3632.9 | 3769.5 |
| 30°   | 2758.3 | 2668.0 | 2480.7 | 2386.0 | 2293.4 | 2271.4 | 2352.9 | 2447.6 | 2573.2 | 2599.7 | 2634.9 |
| 32.5° | 2031.3 | 2018.0 | 2029.1 | 1998.2 | 1980.6 | 1978.4 | 1954.1 | 1976.2 | 1989.4 | 2004.8 | 1974.0 |
| 35°   | 1837.4 | 1819.8 | 1788.9 | 1780.1 | 1769.1 | 1773.5 | 1762.5 | 1751.5 | 1760.3 | 1773.5 | 1782.3 |
| 37.5° | 1738.2 | 1711.8 | 1667.7 | 1652.3 | 1652.3 | 1658.9 | 1641.3 | 1636.9 | 1652.3 | 1694.2 | 1716.2 |
| 40°   | 1661.1 | 1630.3 | 1579.6 | 1559.8 | 1573.0 | 1590.6 | 1566.4 | 1557.6 | 1595.0 | 1639.1 | 1674.4 |
| 42.5° | 1588.4 | 1564.2 | 1515.7 | 1493.7 | 1504.7 | 1537.8 | 1502.5 | 1495.9 | 1544.4 | 1592.8 | 1634.7 |
| 45°   | 1526.7 | 1502.5 | 1458.5 | 1447.4 | 1451.8 | 1482.7 | 1458.5 | 1458.5 | 1504.7 | 1557.6 | 1595.0 |
| 47.5° | 1478.3 | 1447.4 | 1418.8 | 1410.0 | 1414.4 | 1432.0 | 1427.6 | 1427.6 | 1471.7 | 1526.7 | 1564.2 |
| 50°   | 1429.8 | 1403.4 | 1365.9 | 1370.3 | 1381.3 | 1405.6 | 1403.4 | 1410.0 | 1454.0 | 1522.3 | 1562.0 |
| 52.5° | 1407.8 | 1368.1 | 1326.3 | 1330.7 | 1363.7 | 1392.4 | 1383.5 | 1390.2 | 1440.8 | 1568.6 | 1625.9 |
| 55°   | 1383.5 | 1330.7 | 1282.2 | 1288.8 | 1326.3 | 1368.1 | 1357.1 | 1365.9 | 1425.4 | 1599.5 | 1678.8 |
| 57.5° | 1337.3 | 1275.6 | 1222.7 | 1227.1 | 1282.2 | 1326.3 | 1308.6 | 1319.7 | 1390.2 | 1566.4 | 1650.1 |
| 58°   | 1317.5 | 1264.6 | 1213.9 | 1216.1 | 1269.0 | 1317.5 | 1297.6 | 1306.4 | 1379.1 | 1557.6 | 1636.9 |
| 60°   | 1233.7 | 1202.9 | 1158.8 | 1161.0 | 1211.7 | 1253.6 | 1242.5 | 1251.4 | 1321.9 | 1493.7 | 1553.2 |
| 62.5° | 1119.2 | 1101.5 | 1090.5 | 1090.5 | 1121.4 | 1161.0 | 1172.0 | 1183.1 | 1247.0 | 1350.5 | 1403.4 |
| 65°   | 995.8  | 995.8  | 998.0  | 998.0  | 1017.8 | 1068.5 | 1075.1 | 1103.8 | 1163.2 | 1213.9 | 1253.6 |
| 67.5° | 912.1  | 907.7  | 912.1  | 901.1  | 909.9  | 940.7  | 973.8  | 1000.2 | 1061.9 | 1097.1 | 1110.4 |
| 70°   | 804.1  | 801.9  | 804.1  | 788.7  | 799.7  | 826.2  | 848.2  | 892.3  | 956.1  | 982.6  | 989.2  |
| 72.5° | 698.4  | 698.4  | 702.8  | 691.8  | 691.8  | 720.4  | 735.8  | 784.3  | 843.8  | 859.2  | 861.4  |
| 75°   | 588.2  | 594.8  | 594.8  | 579.4  | 583.8  | 601.4  | 621.3  | 660.9  | 716.0  | 727.0  | 727.0  |
| 77.5° | 467.1  | 491.3  | 491.3  | 475.9  | 482.5  | 484.7  | 511.1  | 530.9  | 572.8  | 577.2  | 559.6  |
| 80°   | 339.3  | 363.5  | 383.3  | 370.1  | 381.1  | 367.9  | 383.3  | 396.6  | 438.4  | 418.6  | 389.9  |
| 82.5° | 242.3  | 260.0  | 275.4  | 277.6  | 266.6  | 242.3  | 262.2  | 264.4  | 284.2  | 257.8  | 242.3  |
| 85°   | 134.4  | 149.8  | 169.6  | 160.8  | 143.2  | 127.8  | 134.4  | 138.8  | 136.6  | 130.0  | 121.2  |
| 87.5° | 35.2   | 37.5   | 41.9   | 30.8   | 28.6   | 24.2   | 33.0   | 33.0   | 37.5   | 39.7   | 37.5   |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°    | 270°    | 275°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 8380.6 | 8380.6 | 8380.6 | 8380.6 | 8380.6 | 8380.6 | 8380.6 | 8380.6 | 8380.6  | 8380.6  | 8380.6  |
| 2.5°  | 7135.8 | 7232.8 | 7442.1 | 7600.7 | 7794.6 | 8030.3 | 8307.9 | 8587.7 | 8889.5  | 8984.2  | 9116.4  |
| 5°    | 5904.3 | 6146.6 | 6248.0 | 6536.6 | 6823.0 | 7252.6 | 7710.8 | 8241.8 | 8823.4  | 9103.2  | 9372.0  |
| 7.5°  | 5045.1 | 5175.1 | 5280.8 | 5492.3 | 5836.0 | 6358.1 | 6933.2 | 7596.3 | 8420.2  | 8827.8  | 9222.2  |
| 10°   | 4582.4 | 4595.7 | 4725.6 | 4987.8 | 5287.4 | 5747.9 | 6292.1 | 7034.5 | 7953.2  | 8448.9  | 8911.5  |
| 12.5° | 4276.2 | 4218.9 | 4359.9 | 4633.1 | 4972.4 | 5397.6 | 5897.7 | 6604.9 | 7616.1  | 8125.0  | 8684.6  |
| 15°   | 4007.4 | 3917.1 | 4022.9 | 4302.7 | 4637.5 | 5137.6 | 5675.2 | 6424.2 | 7483.9  | 8076.6  | 8697.8  |
| 17.5° | 4014.0 | 3765.1 | 3802.5 | 4038.3 | 4370.9 | 4879.9 | 5532.0 | 6417.6 | 7684.4  | 8367.4  | 9103.2  |
| 20°   | 4509.7 | 4111.0 | 3941.3 | 3985.4 | 4307.1 | 4862.2 | 5598.1 | 6726.1 | 8343.1  | 9338.9  | 10125.4 |
| 22.5° | 4996.6 | 4756.5 | 4483.3 | 4393.0 | 4569.2 | 5150.8 | 6018.9 | 7455.3 | 9775.2  | 11275.5 | 12696.5 |
| 25°   | 4827.0 | 5031.9 | 4963.6 | 4835.8 | 4875.5 | 5357.9 | 6305.3 | 8054.5 | 10887.7 | 12577.5 | 13912.6 |
| 27.5° | 3862.0 | 4234.4 | 4309.3 | 4307.1 | 4322.5 | 4719.0 | 5670.8 | 7651.4 | 11026.5 | 12826.4 | 14102.0 |
| 30°   | 2714.2 | 2747.3 | 2786.9 | 2864.0 | 2934.5 | 3289.2 | 4437.0 | 6717.2 | 10964.8 | 12938.8 | 14216.6 |
| 32.5° | 1958.6 | 2002.6 | 2057.7 | 2163.4 | 2330.9 | 2782.5 | 3881.9 | 6419.8 | 11290.9 | 13403.7 | 14551.5 |
| 35°   | 1791.1 | 1841.8 | 1894.7 | 2015.8 | 2174.5 | 2593.0 | 3661.6 | 6296.5 | 11826.2 | 14157.1 | 15152.9 |
| 37.5° | 1738.2 | 1795.5 | 1841.8 | 1929.9 | 2057.7 | 2456.5 | 3461.1 | 6212.7 | 12374.8 | 14954.6 | 15959.3 |
| 40°   | 1700.8 | 1766.9 | 1804.3 | 1874.8 | 1963.0 | 2330.9 | 3282.6 | 6146.6 | 12905.8 | 15683.9 | 16607.0 |
| 42.5° | 1667.7 | 1736.0 | 1784.5 | 1835.2 | 1907.9 | 2218.5 | 3124.0 | 6080.6 | 13366.2 | 16391.1 | 17252.5 |
| 45°   | 1628.1 | 1714.0 | 1775.7 | 1815.4 | 1879.2 | 2123.8 | 3002.8 | 6027.7 | 13890.5 | 17018.9 | 17904.6 |
| 47.5° | 1595.0 | 1689.8 | 1766.9 | 1813.2 | 1837.4 | 2057.7 | 2905.9 | 6100.4 | 14520.6 | 17675.5 | 18510.4 |
| 50°   | 1597.2 | 1687.6 | 1784.5 | 1857.2 | 1793.3 | 2002.6 | 2846.4 | 6389.0 | 15340.2 | 18455.4 | 18988.5 |
| 52.5° | 1667.7 | 1777.9 | 1855.0 | 1872.6 | 1731.6 | 1936.5 | 2815.6 | 6893.5 | 16309.5 | 19144.9 | 19471.0 |
| 55°   | 1747.1 | 1861.6 | 1945.3 | 1934.3 | 1698.6 | 1852.8 | 2809.0 | 7431.1 | 17371.4 | 19949.1 | 20098.9 |
| 57.5° | 1718.4 | 1885.9 | 2013.6 | 1956.4 | 1700.8 | 1771.3 | 2780.3 | 7865.1 | 18259.3 | 20550.5 | 20720.1 |
| 58°   | 1709.6 | 1877.0 | 2022.4 | 1951.9 | 1694.2 | 1747.1 | 2773.7 | 7902.5 | 18382.7 | 20592.4 | 20808.3 |
| 60°   | 1623.7 | 1799.9 | 2015.8 | 1918.9 | 1656.7 | 1681.0 | 2701.0 | 8023.7 | 18349.6 | 20376.5 | 20861.1 |
| 62.5° | 1467.3 | 1612.7 | 1863.8 | 1758.1 | 1542.2 | 1592.8 | 2538.0 | 7873.9 | 17455.2 | 19336.6 | 20087.9 |
| 65°   | 1291.0 | 1399.0 | 1566.4 | 1546.6 | 1379.1 | 1502.5 | 2315.5 | 7281.2 | 15664.0 | 17649.0 | 18439.9 |
| 67.5° | 1158.8 | 1247.0 | 1352.7 | 1324.1 | 1240.3 | 1381.3 | 2075.3 | 6278.8 | 13654.8 | 15622.2 | 16618.0 |
| 70°   | 1024.4 | 1092.7 | 1145.6 | 1125.8 | 1099.3 | 1262.4 | 1861.6 | 5095.8 | 11729.3 | 13696.7 | 14661.6 |
| 72.5° | 887.8  | 951.7  | 995.8  | 967.2  | 951.7  | 1136.8 | 1687.6 | 3954.6 | 9264.0  | 11299.7 | 12540.0 |
| 75°   | 742.4  | 806.3  | 837.2  | 804.1  | 795.3  | 1002.4 | 1429.8 | 2954.4 | 6950.8  | 8711.1  | 9781.8  |
| 77.5° | 575.0  | 643.3  | 683.0  | 671.9  | 676.4  | 824.0  | 1154.4 | 2022.4 | 4970.2  | 5937.4  | 7065.3  |
| 80°   | 403.2  | 478.1  | 504.5  | 493.5  | 524.3  | 627.9  | 815.1  | 1284.4 | 3428.0  | 3853.2  | 4648.5  |
| 82.5° | 249.0  | 319.4  | 323.9  | 334.9  | 356.9  | 464.9  | 614.7  | 782.1  | 2152.4  | 2225.1  | 2802.3  |
| 85°   | 125.6  | 152.0  | 163.0  | 180.7  | 200.5  | 284.2  | 350.3  | 484.7  | 1385.7  | 1048.7  | 1566.4  |
| 87.5° | 41.9   | 44.1   | 52.9   | 66.1   | 81.5   | 116.8  | 149.8  | 198.3  | 343.7   | 189.5   | 484.7   |
| 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°    | 8380.6  | 8380.6  | 8380.6  | 8380.6  | 8380.6  | 8380.6  | 8380.6  | 8380.6  | 8380.6  | 8380.6  |
| 2.5°  | 9383.0  | 9570.3  | 9706.9  | 9832.4  | 9711.3  | 9700.2  | 9581.3  | 9389.6  | 9310.3  | 9310.3  |
| 5°    | 9936.0  | 10374.4 | 10729.1 | 10956.0 | 10859.1 | 10625.5 | 10240.0 | 9748.7  | 9484.3  | 9438.1  |
| 7.5°  | 10088.0 | 10953.8 | 11612.5 | 11846.1 | 11683.0 | 11167.5 | 10429.5 | 9601.1  | 9222.2  | 9138.5  |
| 10°   | 9995.5  | 11121.2 | 12088.4 | 12458.5 | 12231.6 | 11451.7 | 10444.9 | 9429.3  | 8962.2  | 8865.3  |
| 12.5° | 9898.5  | 11143.3 | 12176.5 | 12711.9 | 12564.3 | 11680.8 | 10557.3 | 9316.9  | 8777.1  | 8638.4  |
| 15°   | 9969.0  | 11152.1 | 12068.6 | 12621.6 | 12716.3 | 11956.2 | 10742.3 | 9398.4  | 8739.7  | 8592.1  |
| 17.5° | 10414.1 | 11319.5 | 11914.4 | 12361.6 | 12694.3 | 12330.7 | 11268.9 | 9788.4  | 9074.6  | 8891.7  |
| 20°   | 11343.8 | 11720.5 | 12002.5 | 12348.4 | 12883.7 | 13095.2 | 12346.2 | 10859.1 | 10015.3 | 9854.5  |
| 22.5° | 14035.9 | 13967.6 | 13390.4 | 13383.8 | 14159.3 | 15007.5 | 14956.8 | 13035.7 | 11766.8 | 11634.6 |
| 25°   | 15045.0 | 14727.7 | 13892.7 | 13690.1 | 14031.5 | 15340.2 | 15150.7 | 13480.8 | 12308.7 | 11987.1 |
| 27.5° | 14650.6 | 13864.1 | 13315.5 | 13269.3 | 13156.9 | 14392.8 | 14848.9 | 13661.4 | 12498.2 | 12185.3 |
| 30°   | 14626.4 | 13469.7 | 12685.4 | 12778.0 | 12885.9 | 14066.8 | 15016.3 | 14227.6 | 12982.9 | 12648.0 |
| 32.5° | 14685.9 | 13524.8 | 12731.7 | 12749.3 | 13071.0 | 14115.3 | 15201.4 | 14844.5 | 13619.6 | 13284.7 |
| 35°   | 14926.0 | 13837.7 | 13026.9 | 12985.1 | 13487.4 | 14432.5 | 15516.4 | 15813.8 | 14489.8 | 14108.6 |
| 37.5° | 15313.7 | 14461.1 | 13566.7 | 13555.7 | 14284.9 | 15005.3 | 15908.6 | 16792.0 | 15355.6 | 14945.8 |
| 40°   | 15884.3 | 15190.4 | 14527.2 | 14467.8 | 15368.8 | 15937.2 | 16417.5 | 17834.1 | 16362.4 | 15835.9 |
| 42.5° | 16573.9 | 16065.0 | 15794.0 | 16029.8 | 16895.6 | 16983.7 | 17210.6 | 18796.8 | 17219.4 | 16607.0 |
| 45°   | 17212.8 | 17188.6 | 17565.3 | 18191.0 | 18695.5 | 18166.8 | 18039.0 | 19442.4 | 17884.8 | 17219.4 |
| 47.5° | 17972.9 | 18629.4 | 19766.2 | 20682.7 | 21211.4 | 19543.7 | 18746.2 | 19863.1 | 18369.4 | 17757.0 |
| 50°   | 18744.0 | 20354.4 | 22169.8 | 23447.6 | 23559.9 | 21039.6 | 19233.1 | 20259.7 | 18810.1 | 18173.4 |
| 52.5° | 19554.7 | 21731.4 | 24148.2 | 25633.1 | 25415.0 | 22341.6 | 19704.5 | 20528.5 | 19263.9 | 18704.3 |
| 55°   | 20259.7 | 22575.2 | 25254.1 | 26679.5 | 26360.1 | 23134.7 | 20213.4 | 20819.3 | 19911.6 | 19440.1 |
| 57.5° | 20654.1 | 22645.7 | 24978.7 | 26223.5 | 25877.6 | 22980.5 | 20447.0 | 21035.2 | 20325.8 | 19955.7 |
| 58°   | 20711.3 | 22550.9 | 24734.2 | 25959.1 | 25606.6 | 22850.5 | 20444.8 | 21026.4 | 20352.2 | 19979.9 |
| 60°   | 20660.7 | 21936.3 | 23824.3 | 24914.8 | 24544.7 | 22035.4 | 20361.0 | 20861.1 | 20017.4 | 19702.3 |
| 62.5° | 20191.4 | 20870.0 | 22253.5 | 23046.6 | 22940.9 | 20762.0 | 20017.4 | 20237.7 | 18997.3 | 18693.3 |
| 65°   | 19574.5 | 19415.9 | 20242.1 | 20803.9 | 20883.2 | 19808.1 | 19675.9 | 18889.4 | 17688.7 | 17259.1 |
| 67.5° | 18825.5 | 17768.0 | 17765.8 | 18085.2 | 18217.4 | 18340.8 | 18964.3 | 17424.3 | 15802.8 | 15349.0 |
| 70°   | 17554.3 | 15227.8 | 14527.2 | 14904.0 | 14793.8 | 15835.9 | 17693.1 | 15366.6 | 13529.2 | 12998.3 |
| 72.5° | 15223.4 | 12084.0 | 10962.6 | 11447.3 | 11169.7 | 12418.9 | 15481.2 | 12645.8 | 11187.3 | 10535.2 |
| 75°   | 12339.6 | 9039.3  | 7882.7  | 8327.7  | 8155.9  | 9420.5  | 12881.5 | 9184.7  | 8023.7  | 7774.7  |
| 77.5° | 9581.3  | 6549.8  | 5877.9  | 5816.2  | 5944.0  | 7010.3  | 9449.1  | 6201.7  | 5289.6  | 5120.0  |
| 80°   | 6155.5  | 4688.2  | 4727.9  | 4648.5  | 4714.6  | 4419.4  | 5736.9  | 3956.8  | 3582.2  | 3445.6  |
| 82.5° | 4051.5  | 3267.2  | 3895.1  | 3595.5  | 3414.8  | 2972.0  | 3762.9  | 2590.8  | 2198.7  | 2123.8  |
| 85°   | 2760.5  | 2405.8  | 2189.9  | 1674.4  | 1971.8  | 2289.0  | 2822.2  | 1394.6  | 1106.0  | 1002.4  |
| 87.5° | 1247.0  | 837.2   | 614.7   | 378.9   | 599.2   | 691.8   | 1370.3  | 163.0   | 125.6   | 130.0   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)