

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: P454611

Luminaire Tested: **GLAN-SA5D-727-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454611  
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: STREETWORKS  
Catalog Number: GLAN-SA5D-727-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1200mA 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: 27928 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

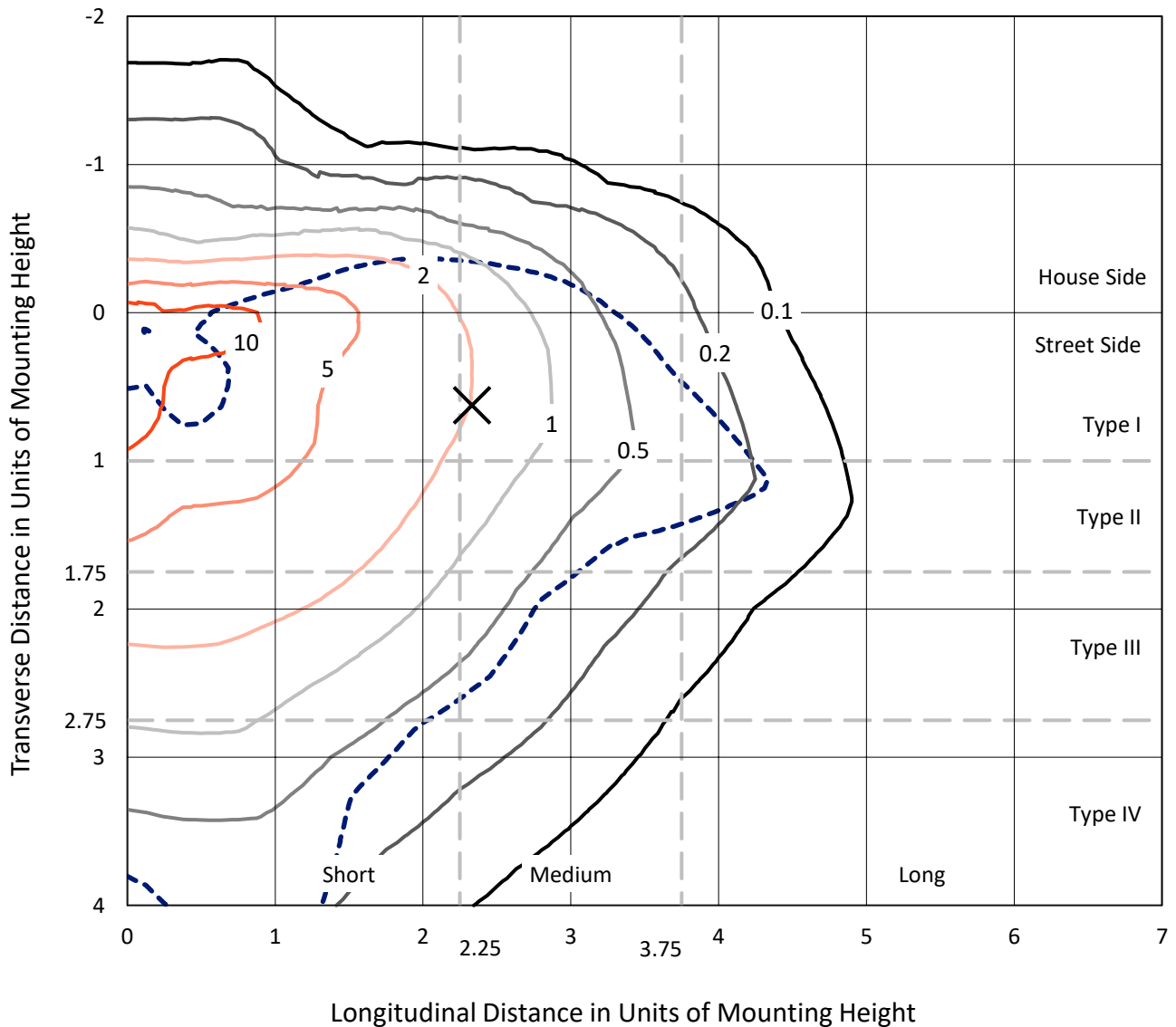
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

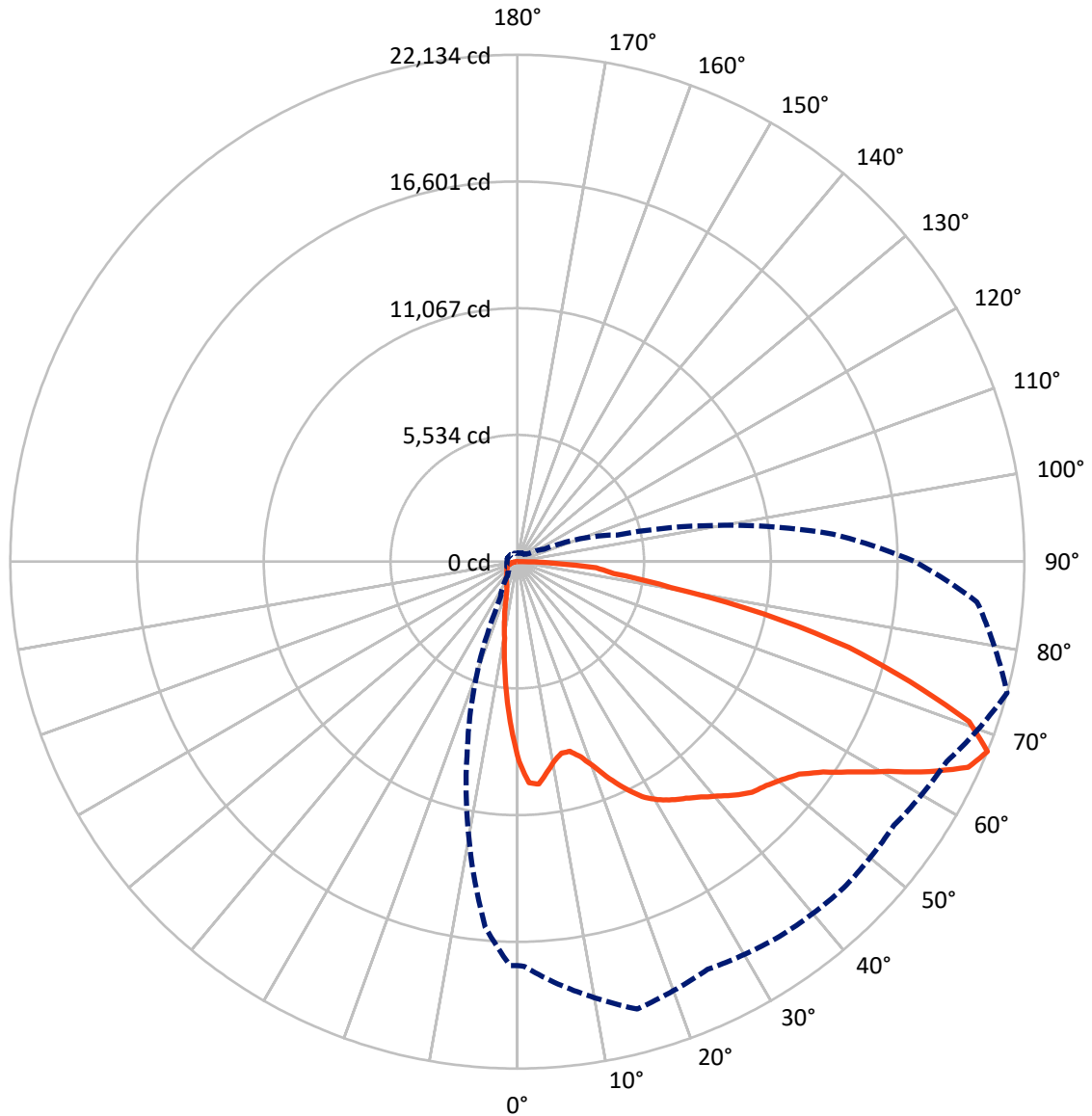
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 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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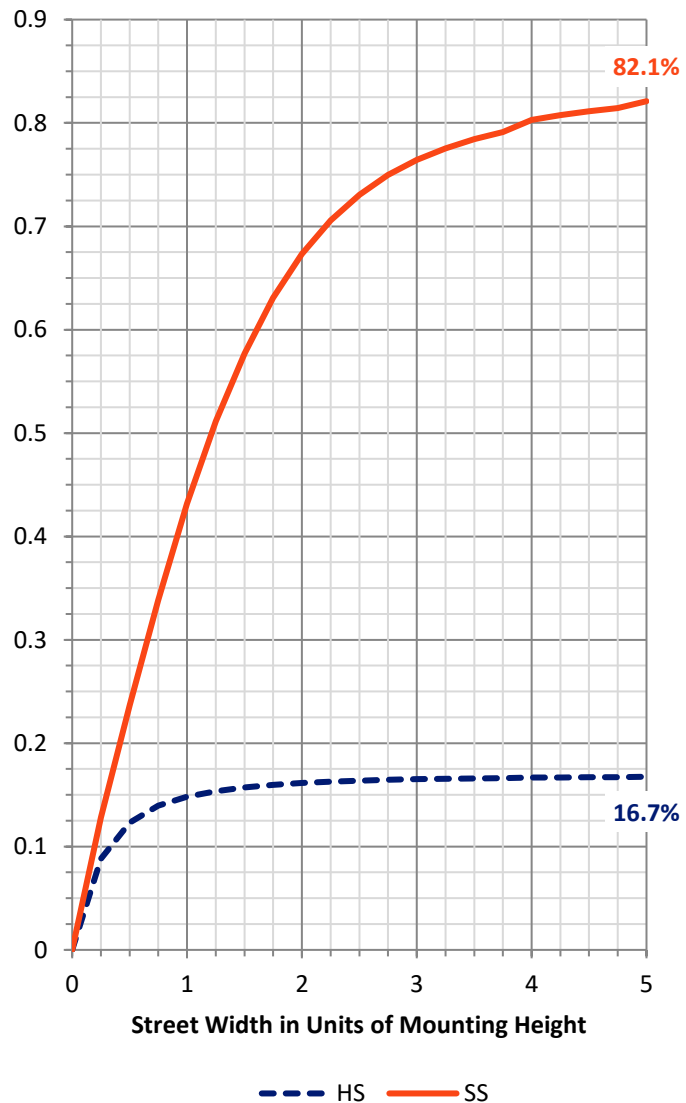
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4720.4   | 0.0    | 4720.4  |
|                    | % Fixture | 16.9     | 0.0    | 16.9    |
| <b>Street Side</b> | Lumens    | 23207.6  | 0.0    | 23207.6 |
|                    | % Fixture | 83.1     | 0.0    | 83.1    |
| <b>Total</b>       | Lumens    | 27928.0  | 0.0    | 27928.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 661.8   | 2.4       |
| 10°-20°   | 1380.2  | 4.9       |
| 20°-30°   | 1986.1  | 7.1       |
| 30°-40°   | 2860.6  | 10.2      |
| 40°-50°   | 4018.3  | 14.4      |
| 50°-60°   | 5604.1  | 20.1      |
| 60°-70°   | 6663.0  | 23.9      |
| 70°-80°   | 3924.1  | 14.1      |
| 80°-90°   | 829.8   | 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°    | 27928.0 | 100.0     |
| 0°-180°   | 27928.0 | 100.0     |

**Coefficient of Utilization**



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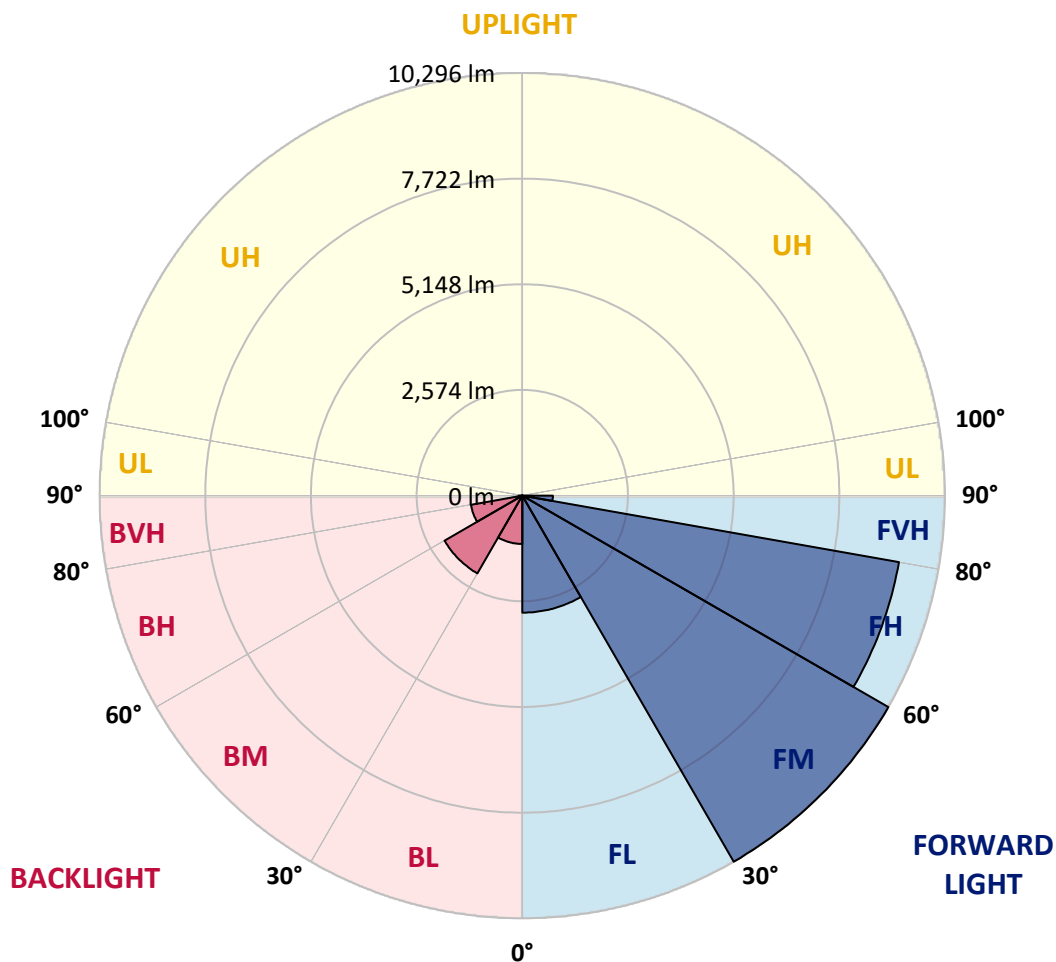
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2850.7  | 10.2      |                         |      |          |
| FM   | (30°-60°)   | 10296.0 | 36.9      |                         |      |          |
| FH   | (60°-80°)   | 9316.9  | 33.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 744.0   | 2.7       |                         |      | G4/750   |
| BL   | (0°-30°)    | 1177.4  | 4.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2187.0  | 7.8       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1270.2  | 4.5       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 85.8    | 0.3       |                         |      | 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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8725.4  | 8725.4  | 8725.4  | 8725.4  | 8725.4  | 8725.4  | 8725.4  | 8725.4  | 8725.4  | 8725.4  | 8725.4  |
| 2.5°  | 9407.7  | 9420.2  | 9500.8  | 9735.4  | 9896.6  | 9955.7  | 9996.9  | 9919.9  | 9844.7  | 9662.0  | 9386.2  |
| 5°    | 9379.1  | 9452.5  | 9662.0  | 10188.6 | 10604.0 | 10783.1 | 10836.9 | 10605.8 | 10224.4 | 9755.1  | 9191.0  |
| 7.5°  | 8831.0  | 8929.5  | 9251.9  | 10134.8 | 10867.3 | 11286.4 | 11230.9 | 10813.6 | 10125.9 | 9289.5  | 8501.5  |
| 10°   | 8180.9  | 8290.2  | 8678.8  | 9746.2  | 10690.0 | 11266.7 | 11266.7 | 10758.1 | 9844.7  | 8850.7  | 7942.7  |
| 12.5° | 7665.1  | 7779.8  | 8223.9  | 9346.8  | 10321.1 | 10867.3 | 10958.6 | 10521.7 | 9642.3  | 8573.1  | 7575.6  |
| 15°   | 7495.0  | 7606.0  | 8084.2  | 9105.0  | 9930.7  | 10263.8 | 10294.2 | 10150.9 | 9543.8  | 8592.8  | 7559.5  |
| 17.5° | 7706.3  | 7849.6  | 8333.2  | 9176.7  | 9572.5  | 9592.2  | 9615.5  | 9728.3  | 9554.6  | 8952.8  | 7885.4  |
| 20°   | 8317.0  | 8471.1  | 8976.1  | 9407.7  | 9259.1  | 9054.9  | 9067.4  | 9357.6  | 9681.7  | 9547.4  | 8664.5  |
| 22.5° | 9198.2  | 9332.5  | 9850.1  | 9814.2  | 9126.5  | 8705.7  | 8617.9  | 9022.7  | 9869.8  | 10288.8 | 9493.7  |
| 25°   | 10149.2 | 10306.8 | 10901.3 | 10417.8 | 9164.1  | 8497.9  | 8442.4  | 8825.7  | 10065.0 | 10981.9 | 10451.8 |
| 27.5° | 11238.0 | 11392.0 | 11861.3 | 11026.7 | 9361.1  | 8481.8  | 8415.5  | 8807.8  | 10240.5 | 11623.1 | 11367.0 |
| 30°   | 12047.5 | 12189.0 | 12507.8 | 11538.9 | 9602.9  | 8589.3  | 8506.9  | 8949.2  | 10390.9 | 12061.9 | 12258.9 |
| 32.5° | 12683.3 | 12830.2 | 13003.9 | 11857.7 | 9921.7  | 8784.5  | 8632.2  | 9207.1  | 10587.9 | 12396.8 | 12919.7 |
| 35°   | 13345.9 | 13519.7 | 13507.1 | 12140.7 | 10219.0 | 9010.1  | 8861.5  | 9579.6  | 10897.8 | 12688.7 | 13757.9 |
| 37.5° | 14185.9 | 14255.7 | 14166.2 | 12395.0 | 10575.4 | 9416.7  | 9334.3  | 10133.0 | 11338.3 | 13041.5 | 14737.5 |
| 40°   | 15038.4 | 15178.1 | 14717.8 | 12703.0 | 11008.8 | 10181.4 | 10172.4 | 10951.5 | 11861.3 | 13455.2 | 15686.7 |
| 42.5° | 15769.1 | 15887.3 | 15233.6 | 12971.6 | 11533.5 | 11114.5 | 11182.5 | 12049.3 | 12547.2 | 13935.2 | 16449.6 |
| 45°   | 16318.9 | 16424.5 | 15710.0 | 13231.3 | 12224.8 | 12192.6 | 12593.8 | 13226.0 | 13412.2 | 14366.8 | 16897.3 |
| 47.5° | 16786.3 | 16888.4 | 16041.3 | 13625.3 | 13079.1 | 13480.3 | 14178.7 | 14452.7 | 14151.9 | 14613.9 | 17398.8 |
| 50°   | 17180.3 | 17210.8 | 16268.7 | 14094.5 | 14139.3 | 15058.1 | 15735.0 | 15912.3 | 14882.6 | 14968.5 | 17834.0 |
| 52.5° | 17590.4 | 17551.0 | 16660.9 | 14685.6 | 15285.5 | 16555.3 | 17047.8 | 17232.2 | 15582.8 | 15405.5 | 18468.0 |
| 55°   | 18509.2 | 18546.8 | 17540.3 | 15430.6 | 16444.2 | 18025.6 | 18673.9 | 18496.6 | 16358.3 | 16209.6 | 19273.9 |
| 57.5° | 19619.5 | 19587.3 | 18777.8 | 16596.5 | 17624.5 | 19393.9 | 19877.4 | 19592.7 | 17393.4 | 17314.6 | 20090.6 |
| 60°   | 20051.2 | 20094.1 | 19813.0 | 17850.1 | 18788.6 | 20592.0 | 21086.3 | 20643.9 | 18634.5 | 18598.7 | 20706.6 |
| 62.5° | 19617.8 | 19859.5 | 20049.4 | 18965.9 | 19780.7 | 21473.1 | 21963.9 | 21458.8 | 19929.4 | 20189.1 | 21138.2 |
| 65°   | 18754.5 | 18806.5 | 19453.0 | 19911.5 | 20258.9 | 21618.2 | 21874.3 | 21605.7 | 21011.1 | 21637.9 | 21118.5 |
| 67.5° | 17633.4 | 17678.2 | 18435.7 | 20221.3 | 19642.8 | 19970.6 | 20149.7 | 20070.9 | 20676.2 | 22134.0 | 20146.1 |
| 70°   | 16566.0 | 16530.2 | 17330.7 | 19431.5 | 17099.7 | 16601.8 | 16750.5 | 16503.3 | 17841.2 | 20921.5 | 18238.7 |
| 72.5° | 14488.6 | 14617.5 | 15477.1 | 17235.8 | 13539.4 | 12729.9 | 13054.0 | 12414.7 | 13722.0 | 17918.2 | 14803.8 |
| 75°   | 11349.1 | 11379.5 | 12814.0 | 14465.3 | 10213.6 | 8936.7  | 9375.5  | 9108.6  | 10510.9 | 14947.0 | 10222.6 |
| 77.5° | 7858.6  | 7790.5  | 9332.5  | 11048.2 | 7283.7  | 6542.2  | 6549.4  | 6422.2  | 7339.2  | 11005.2 | 6945.2  |
| 80°   | 4991.3  | 4887.4  | 5842.0  | 6825.2  | 5005.6  | 5354.9  | 5179.3  | 5174.0  | 4778.2  | 6789.4  | 4199.7  |
| 82.5° | 2697.1  | 2811.7  | 3691.1  | 4278.5  | 3590.8  | 4138.8  | 3793.2  | 3682.1  | 3279.2  | 4249.9  | 2686.4  |
| 85°   | 1228.6  | 1336.0  | 1968.2  | 2910.2  | 2727.6  | 2758.0  | 1842.9  | 2174.2  | 2713.2  | 3451.1  | 1434.5  |
| 87.5° | 120.0   | 154.0   | 406.5   | 1373.6  | 931.3   | 734.3   | 274.0   | 528.3   | 682.3   | 1226.8  | 114.6   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8725.4  | 8725.4  | 8725.4 | 8725.4 | 8725.4 | 8725.4 | 8725.4 | 8725.4 | 8725.4 | 8725.4 | 8725.4 |
| 2.5°  | 9273.4  | 9180.3  | 8863.3 | 8601.8 | 8324.2 | 8112.9 | 7837.1 | 7652.6 | 7525.5 | 7333.8 | 7310.5 |
| 5°    | 8847.2  | 8619.7  | 8068.1 | 7505.8 | 7020.4 | 6655.1 | 6284.3 | 5944.1 | 5743.5 | 5680.8 | 5600.2 |
| 7.5°  | 8129.0  | 7745.7  | 7036.5 | 6391.8 | 5834.8 | 5290.4 | 4871.3 | 4574.0 | 4375.2 | 4258.8 | 4119.1 |
| 10°   | 7538.0  | 7093.8  | 6230.6 | 5440.8 | 4982.3 | 4643.9 | 4274.9 | 3956.1 | 3710.8 | 3501.3 | 3386.6 |
| 12.5° | 7140.4  | 6638.9  | 5668.3 | 5027.1 | 4672.5 | 4312.5 | 3880.9 | 3522.7 | 3161.0 | 2922.8 | 2820.7 |
| 15°   | 7020.4  | 6490.3  | 5494.5 | 4821.2 | 4312.5 | 3841.5 | 3358.0 | 2890.5 | 2532.4 | 2306.7 | 2231.5 |
| 17.5° | 7314.1  | 6673.0  | 5492.8 | 4547.1 | 3889.9 | 3327.5 | 2707.9 | 2269.1 | 1902.0 | 1733.6 | 1679.9 |
| 20°   | 7862.1  | 7024.0  | 5508.9 | 4276.7 | 3431.4 | 2639.8 | 1970.0 | 1610.0 | 1434.5 | 1362.9 | 1336.0 |
| 22.5° | 8626.9  | 7559.5  | 5557.2 | 4009.9 | 2929.9 | 2027.3 | 1475.7 | 1293.0 | 1230.4 | 1217.8 | 1212.5 |
| 25°   | 9568.9  | 8222.1  | 5720.2 | 3769.9 | 2507.3 | 1547.4 | 1233.9 | 1151.6 | 1115.7 | 1103.2 | 1101.4 |
| 27.5° | 10435.7 | 9078.2  | 5917.2 | 3563.9 | 2099.0 | 1334.2 | 1115.7 | 1045.9 | 1010.1 | 1008.3 | 1011.9 |
| 30°   | 11218.3 | 9794.5  | 6082.0 | 3332.9 | 1789.1 | 1185.6 | 1038.7 | 968.9  | 934.9  | 933.1  | 943.8  |
| 32.5° | 11895.3 | 10383.8 | 6203.8 | 3105.5 | 1617.2 | 1094.3 | 968.9  | 893.7  | 865.0  | 859.6  | 865.0  |
| 35°   | 12618.8 | 10971.2 | 6148.2 | 2928.2 | 1518.7 | 1019.0 | 917.0  | 843.5  | 809.5  | 793.4  | 793.4  |
| 37.5° | 13444.4 | 11576.5 | 6053.3 | 2781.3 | 1473.9 | 956.4  | 872.2  | 800.5  | 766.5  | 750.4  | 748.6  |
| 40°   | 14345.3 | 12181.8 | 5922.6 | 2650.6 | 1429.2 | 918.7  | 841.7  | 766.5  | 725.3  | 709.2  | 705.6  |
| 42.5° | 15140.4 | 12699.4 | 5815.1 | 2564.6 | 1355.7 | 925.9  | 814.9  | 741.4  | 689.5  | 668.0  | 666.2  |
| 45°   | 15831.7 | 13220.6 | 5795.4 | 2514.5 | 1294.8 | 915.2  | 807.7  | 721.7  | 660.8  | 637.6  | 634.0  |
| 47.5° | 16372.6 | 13763.2 | 5908.2 | 2485.8 | 1228.6 | 857.9  | 854.3  | 709.2  | 635.8  | 610.7  | 607.1  |
| 50°   | 17031.7 | 14533.3 | 6166.1 | 2426.7 | 1167.7 | 804.1  | 902.6  | 707.4  | 616.1  | 583.8  | 574.9  |
| 52.5° | 17909.2 | 15536.2 | 6515.4 | 2321.0 | 1079.9 | 754.0  | 861.4  | 707.4  | 592.8  | 560.6  | 549.8  |
| 55°   | 19236.3 | 16815.0 | 6857.4 | 2172.4 | 956.4  | 687.7  | 777.3  | 685.9  | 558.8  | 530.1  | 522.9  |
| 57.5° | 20115.6 | 17749.8 | 7075.9 | 1966.4 | 802.3  | 639.4  | 669.8  | 651.9  | 524.7  | 494.3  | 494.3  |
| 60°   | 20160.4 | 18000.5 | 6972.1 | 1706.7 | 705.6  | 594.6  | 582.0  | 657.3  | 494.3  | 462.1  | 458.5  |
| 62.5° | 19644.6 | 17386.3 | 6431.2 | 1473.9 | 653.7  | 546.2  | 526.5  | 576.7  | 463.8  | 431.6  | 426.2  |
| 65°   | 18838.7 | 15819.2 | 5492.8 | 1362.9 | 625.0  | 503.2  | 474.6  | 472.8  | 431.6  | 401.2  | 394.0  |
| 67.5° | 17357.6 | 13824.1 | 4513.1 | 1298.4 | 610.7  | 454.9  | 428.0  | 419.1  | 394.0  | 368.9  | 365.3  |
| 70°   | 15174.5 | 11578.3 | 3619.5 | 1271.6 | 603.5  | 404.7  | 383.3  | 372.5  | 351.0  | 331.3  | 329.5  |
| 72.5° | 11805.8 | 9391.6  | 2987.3 | 1253.6 | 600.0  | 358.2  | 334.9  | 320.6  | 308.0  | 290.1  | 290.1  |
| 75°   | 8480.0  | 6909.4  | 2279.8 | 1130.1 | 555.2  | 308.0  | 283.0  | 274.0  | 256.1  | 241.8  | 245.4  |
| 77.5° | 5345.9  | 4652.8  | 1500.8 | 831.0  | 429.8  | 247.1  | 225.7  | 220.3  | 206.0  | 186.3  | 198.8  |
| 80°   | 3610.5  | 3272.0  | 875.8  | 522.9  | 270.4  | 180.9  | 173.7  | 171.9  | 155.8  | 134.3  | 136.1  |
| 82.5° | 2457.1  | 2410.6  | 454.9  | 297.3  | 155.8  | 105.7  | 102.1  | 105.7  | 87.8   | 71.6   | 71.6   |
| 85°   | 959.9   | 1311.0  | 214.9  | 116.4  | 50.1   | 16.1   | 23.3   | 25.1   | 14.3   | 7.2    | 9.0    |
| 87.5° | 17.9    | 134.3   | 5.4    | 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°    | 8725.4 | 8725.4 | 8725.4 | 8725.4 | 8725.4 | 8725.4 | 8725.4 | 8725.4 | 8725.4 | 8725.4 | 8725.4 |
| 2.5°  | 7274.7 | 7258.6 | 7285.5 | 7170.8 | 7194.1 | 7237.1 | 7258.6 | 7271.1 | 7448.4 | 7407.3 | 7520.1 |
| 5°    | 5675.4 | 5659.3 | 5763.2 | 5777.5 | 5831.2 | 5820.5 | 5872.4 | 5885.0 | 5949.4 | 5972.7 | 6130.3 |
| 7.5°  | 4128.1 | 4197.9 | 4316.1 | 4377.0 | 4468.3 | 4497.0 | 4470.1 | 4536.4 | 4402.1 | 4498.8 | 4527.4 |
| 10°   | 3316.8 | 3232.6 | 3182.5 | 3322.2 | 3340.1 | 3472.6 | 3418.9 | 3375.9 | 3454.7 | 3458.3 | 3533.5 |
| 12.5° | 2761.6 | 2580.7 | 2460.7 | 2500.1 | 2543.1 | 2600.4 | 2609.4 | 2695.3 | 2752.6 | 2806.4 | 2851.1 |
| 15°   | 2165.2 | 2102.5 | 1993.3 | 1939.6 | 2000.5 | 2023.7 | 2079.3 | 2150.9 | 2211.8 | 2227.9 | 2288.8 |
| 17.5° | 1662.0 | 1672.7 | 1654.8 | 1622.6 | 1660.2 | 1678.1 | 1681.7 | 1683.5 | 1699.6 | 1688.8 | 1778.4 |
| 20°   | 1337.8 | 1375.4 | 1420.2 | 1427.4 | 1439.9 | 1448.9 | 1432.7 | 1371.8 | 1373.6 | 1411.2 | 1439.9 |
| 22.5° | 1210.7 | 1217.8 | 1268.0 | 1284.1 | 1323.5 | 1307.4 | 1260.8 | 1232.2 | 1228.6 | 1237.5 | 1251.9 |
| 25°   | 1110.4 | 1121.1 | 1156.9 | 1182.0 | 1212.5 | 1183.8 | 1149.8 | 1122.9 | 1119.3 | 1128.3 | 1142.6 |
| 27.5° | 1020.8 | 1036.9 | 1069.2 | 1094.3 | 1122.9 | 1096.0 | 1063.8 | 1040.5 | 1038.7 | 1036.9 | 1045.9 |
| 30°   | 949.2  | 967.1  | 990.4  | 1019.0 | 1038.7 | 1015.5 | 985.0  | 972.5  | 970.7  | 967.1  | 970.7  |
| 32.5° | 877.6  | 906.2  | 929.5  | 943.8  | 963.5  | 945.6  | 922.3  | 915.2  | 902.6  | 891.9  | 886.5  |
| 35°   | 797.0  | 827.4  | 863.2  | 881.1  | 900.8  | 882.9  | 866.8  | 836.4  | 814.9  | 813.1  | 816.7  |
| 37.5° | 750.4  | 762.9  | 791.6  | 822.0  | 841.7  | 832.8  | 802.3  | 771.9  | 766.5  | 766.5  | 770.1  |
| 40°   | 709.2  | 714.6  | 727.1  | 766.5  | 802.3  | 775.5  | 737.9  | 728.9  | 728.9  | 727.1  | 728.9  |
| 42.5° | 668.0  | 673.4  | 673.4  | 703.8  | 761.1  | 718.2  | 689.5  | 689.5  | 689.5  | 691.3  | 696.7  |
| 45°   | 630.4  | 632.2  | 630.4  | 651.9  | 705.6  | 669.8  | 650.1  | 655.5  | 659.1  | 662.6  | 666.2  |
| 47.5° | 598.2  | 600.0  | 598.2  | 616.1  | 642.9  | 628.6  | 617.9  | 625.0  | 632.2  | 637.6  | 641.1  |
| 50°   | 569.5  | 567.7  | 571.3  | 582.0  | 594.6  | 598.2  | 591.0  | 601.7  | 605.3  | 612.5  | 621.4  |
| 52.5° | 544.4  | 542.6  | 546.2  | 551.6  | 569.5  | 569.5  | 569.5  | 578.5  | 585.6  | 592.8  | 605.3  |
| 55°   | 515.8  | 517.6  | 522.9  | 530.1  | 553.4  | 549.8  | 551.6  | 558.8  | 565.9  | 576.7  | 583.8  |
| 57.5° | 488.9  | 492.5  | 499.7  | 510.4  | 533.7  | 531.9  | 533.7  | 537.3  | 546.2  | 551.6  | 558.8  |
| 60°   | 458.5  | 465.6  | 474.6  | 481.8  | 505.0  | 503.2  | 512.2  | 519.4  | 524.7  | 524.7  | 528.3  |
| 62.5° | 428.0  | 438.8  | 447.7  | 453.1  | 478.2  | 480.0  | 492.5  | 497.9  | 501.5  | 497.9  | 503.2  |
| 65°   | 397.6  | 413.7  | 417.3  | 424.4  | 449.5  | 451.3  | 465.6  | 478.2  | 474.6  | 471.0  | 480.0  |
| 67.5° | 367.1  | 386.8  | 385.0  | 394.0  | 419.1  | 422.7  | 435.2  | 456.7  | 449.5  | 445.9  | 453.1  |
| 70°   | 333.1  | 347.4  | 349.2  | 354.6  | 388.6  | 383.3  | 403.0  | 422.7  | 417.3  | 419.1  | 419.1  |
| 72.5° | 295.5  | 308.0  | 308.0  | 318.8  | 354.6  | 345.6  | 361.8  | 383.3  | 383.3  | 381.5  | 381.5  |
| 75°   | 250.7  | 257.9  | 265.1  | 281.2  | 318.8  | 308.0  | 318.8  | 338.5  | 342.1  | 338.5  | 338.5  |
| 77.5° | 202.4  | 213.1  | 216.7  | 238.2  | 265.1  | 263.3  | 274.0  | 283.0  | 290.1  | 286.5  | 286.5  |
| 80°   | 143.3  | 154.0  | 168.3  | 191.6  | 207.7  | 213.1  | 218.5  | 225.7  | 229.2  | 229.2  | 232.8  |
| 82.5° | 80.6   | 96.7   | 109.2  | 132.5  | 139.7  | 166.6  | 164.8  | 170.1  | 164.8  | 145.1  | 161.2  |
| 85°   | 17.9   | 34.0   | 48.4   | 60.9   | 69.8   | 96.7   | 102.1  | 114.6  | 94.9   | 87.8   | 87.8   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 14.3   | 28.7   | 39.4   | 34.0   | 28.7   | 28.7   |
| 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°    | 8725.4 | 8725.4 | 8725.4 | 8725.4 | 8725.4 | 8725.4 | 8725.4 | 8725.4  | 8725.4  | 8725.4  |
| 2.5°  | 7615.0 | 7770.8 | 7958.9 | 8283.0 | 8510.5 | 8755.8 | 9003.0 | 9266.2  | 9336.1  | 9407.7  |
| 5°    | 6173.3 | 6479.6 | 6646.1 | 7081.3 | 7538.0 | 8118.2 | 8592.8 | 9112.2  | 9328.9  | 9379.1  |
| 7.5°  | 4676.1 | 4883.8 | 5320.8 | 5761.4 | 6327.3 | 6936.2 | 7663.4 | 8472.8  | 8725.4  | 8831.0  |
| 10°   | 3707.2 | 3990.2 | 4373.4 | 4846.2 | 5342.3 | 5997.8 | 6818.0 | 7763.6  | 8121.8  | 8180.9  |
| 12.5° | 3155.6 | 3470.8 | 3888.1 | 4387.8 | 4857.0 | 5351.3 | 6178.7 | 7154.7  | 7538.0  | 7665.1  |
| 15°   | 2523.4 | 2904.9 | 3386.6 | 3913.2 | 4423.6 | 4964.4 | 5802.6 | 6904.0  | 7346.4  | 7495.0  |
| 17.5° | 1982.5 | 2290.6 | 2811.7 | 3383.1 | 3988.4 | 4672.5 | 5723.8 | 7024.0  | 7568.4  | 7706.3  |
| 20°   | 1516.9 | 1737.2 | 2176.0 | 2779.5 | 3488.7 | 4384.2 | 5743.5 | 7477.1  | 8129.0  | 8317.0  |
| 22.5° | 1311.0 | 1423.8 | 1690.6 | 2265.5 | 3058.9 | 4133.4 | 5824.1 | 8098.5  | 8884.8  | 9198.2  |
| 25°   | 1187.4 | 1246.5 | 1396.9 | 1773.0 | 2648.8 | 3889.9 | 6008.5 | 8934.9  | 9941.4  | 10149.2 |
| 27.5° | 1081.7 | 1124.7 | 1217.8 | 1488.3 | 2276.3 | 3664.2 | 6223.5 | 9862.6  | 10928.2 | 11238.0 |
| 30°   | 981.4  | 1038.7 | 1126.5 | 1321.7 | 2038.1 | 3458.3 | 6493.9 | 10614.8 | 11759.2 | 12047.5 |
| 32.5° | 904.4  | 961.7  | 1042.3 | 1205.3 | 1835.7 | 3241.6 | 6655.1 | 11275.6 | 12437.9 | 12683.3 |
| 35°   | 841.7  | 890.1  | 974.3  | 1112.2 | 1681.7 | 3076.8 | 6622.8 | 11800.4 | 13095.2 | 13345.9 |
| 37.5° | 797.0  | 838.2  | 922.3  | 1024.4 | 1565.3 | 2904.9 | 6606.7 | 12493.5 | 13895.8 | 14185.9 |
| 40°   | 755.8  | 798.8  | 875.8  | 967.1  | 1448.9 | 2702.5 | 6615.7 | 13181.2 | 14748.2 | 15038.4 |
| 42.5° | 723.5  | 771.9  | 834.6  | 951.0  | 1328.9 | 2539.5 | 6615.7 | 13779.3 | 15489.7 | 15769.1 |
| 45°   | 696.7  | 748.6  | 809.5  | 949.2  | 1233.9 | 2416.0 | 6570.9 | 14293.3 | 16080.7 | 16318.9 |
| 47.5° | 673.4  | 730.7  | 818.5  | 917.0  | 1210.7 | 2326.4 | 6531.5 | 14705.3 | 16562.4 | 16786.3 |
| 50°   | 657.3  | 725.3  | 870.4  | 879.3  | 1217.8 | 2299.5 | 6721.3 | 15224.6 | 16986.9 | 17180.3 |
| 52.5° | 644.7  | 727.1  | 868.6  | 823.8  | 1205.3 | 2317.5 | 7117.1 | 16035.9 | 17576.1 | 17590.4 |
| 55°   | 619.7  | 725.3  | 823.8  | 761.1  | 1153.4 | 2347.9 | 7625.7 | 17214.3 | 18498.4 | 18509.2 |
| 57.5° | 594.6  | 705.6  | 764.7  | 707.4  | 1047.7 | 2347.9 | 8238.2 | 18330.1 | 19610.6 | 19619.5 |
| 60°   | 569.5  | 734.3  | 671.6  | 660.8  | 909.8  | 2304.9 | 8884.8 | 18820.8 | 19959.8 | 20051.2 |
| 62.5° | 544.4  | 739.7  | 600.0  | 619.7  | 809.5  | 2201.0 | 9366.5 | 18278.1 | 19487.0 | 19617.8 |
| 65°   | 515.8  | 596.4  | 553.4  | 576.7  | 757.6  | 2027.3 | 9214.3 | 17284.2 | 18598.7 | 18754.5 |
| 67.5° | 481.8  | 505.0  | 503.2  | 531.9  | 739.7  | 1771.2 | 8412.0 | 16027.0 | 17642.4 | 17633.4 |
| 70°   | 440.6  | 453.1  | 458.5  | 488.9  | 705.6  | 1572.4 | 7009.7 | 14395.4 | 16365.4 | 16566.0 |
| 72.5° | 397.6  | 408.3  | 413.7  | 440.6  | 671.6  | 1459.6 | 5440.8 | 12147.8 | 14175.1 | 14488.6 |
| 75°   | 351.0  | 358.2  | 365.3  | 388.6  | 635.8  | 1293.0 | 3875.6 | 9273.4  | 10856.6 | 11349.1 |
| 77.5° | 302.7  | 302.7  | 311.6  | 334.9  | 535.5  | 1067.4 | 2600.4 | 6504.6  | 7355.3  | 7858.6  |
| 80°   | 245.4  | 247.1  | 243.6  | 268.6  | 394.0  | 730.7  | 1477.5 | 4344.8  | 4894.6  | 4991.3  |
| 82.5° | 188.0  | 182.7  | 184.5  | 197.0  | 293.7  | 497.9  | 788.0  | 2698.9  | 2750.9  | 2697.1  |
| 85°   | 118.2  | 118.2  | 114.6  | 128.9  | 188.0  | 259.7  | 429.8  | 1653.0  | 1291.3  | 1228.6  |
| 87.5° | 48.4   | 39.4   | 44.8   | 51.9   | 89.5   | 105.7  | 168.3  | 340.3   | 130.7   | 120.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |

(END OF REPORT)