

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: P531695

Luminaire Tested: **GLAN-SA7A-730-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531695  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7A-730-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16037 lumens  
Efficiency: N/A  
Efficacy: 74.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G1

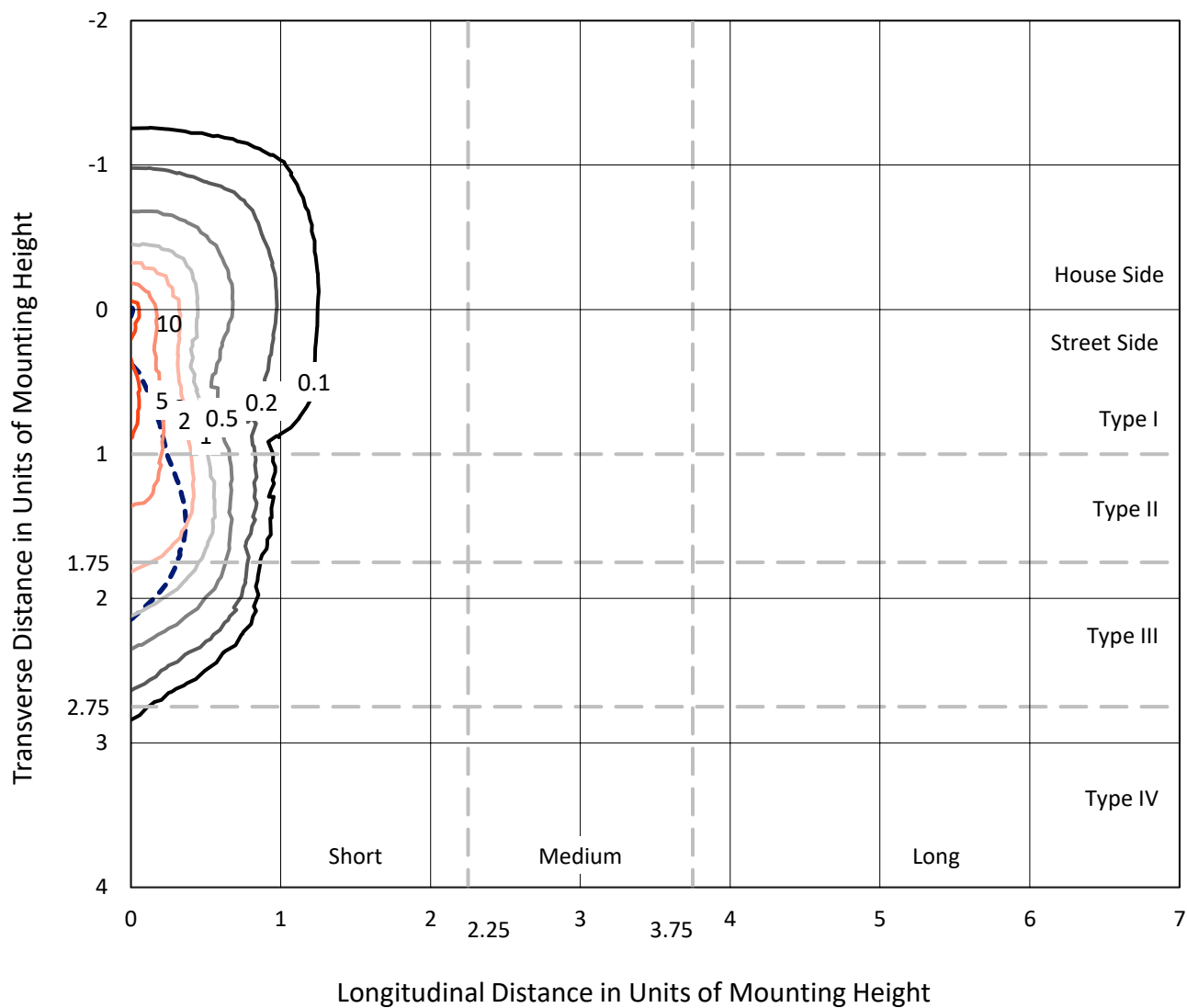
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

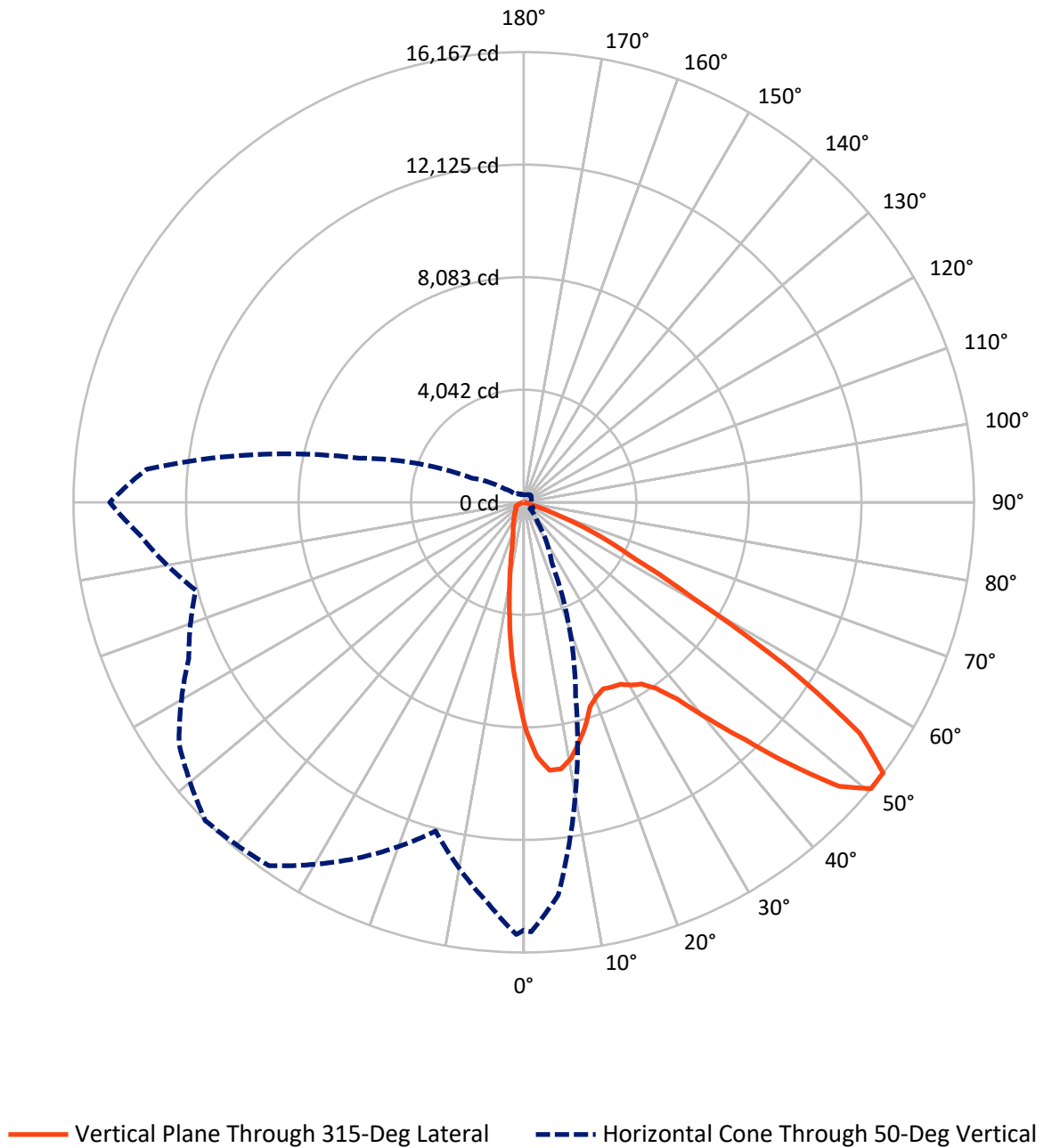


Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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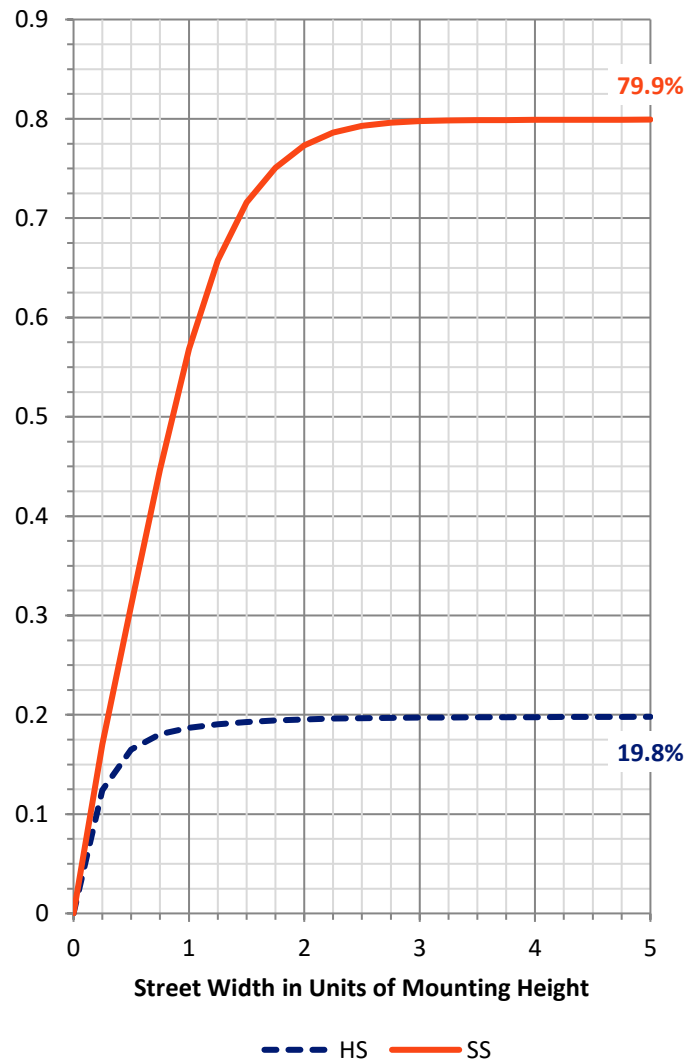
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3212.2   | 0.0    | 3212.2  |
|                    | % Fixture | 20.0     | 0.0    | 20.0    |
| <b>Street Side</b> | Lumens    | 12824.8  | 0.0    | 12824.8 |
|                    | % Fixture | 80.0     | 0.0    | 80.0    |
| <b>Total</b>       | Lumens    | 16037.0  | 0.0    | 16037.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 592.8   | 3.7       |
| 10°-20°   | 1178.2  | 7.3       |
| 20°-30°   | 1769.9  | 11.0      |
| 30°-40°   | 2656.6  | 16.6      |
| 40°-50°   | 3733.7  | 23.3      |
| 50°-60°   | 4027.5  | 25.1      |
| 60°-70°   | 1869.9  | 11.7      |
| 70°-80°   | 175.9   | 1.1       |
| 80°-90°   | 32.4    | 0.2       |
| 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°    | 16037.0 | 100.0     |
| 0°-180°   | 16037.0 | 100.0     |

**Coefficient of Utilization**



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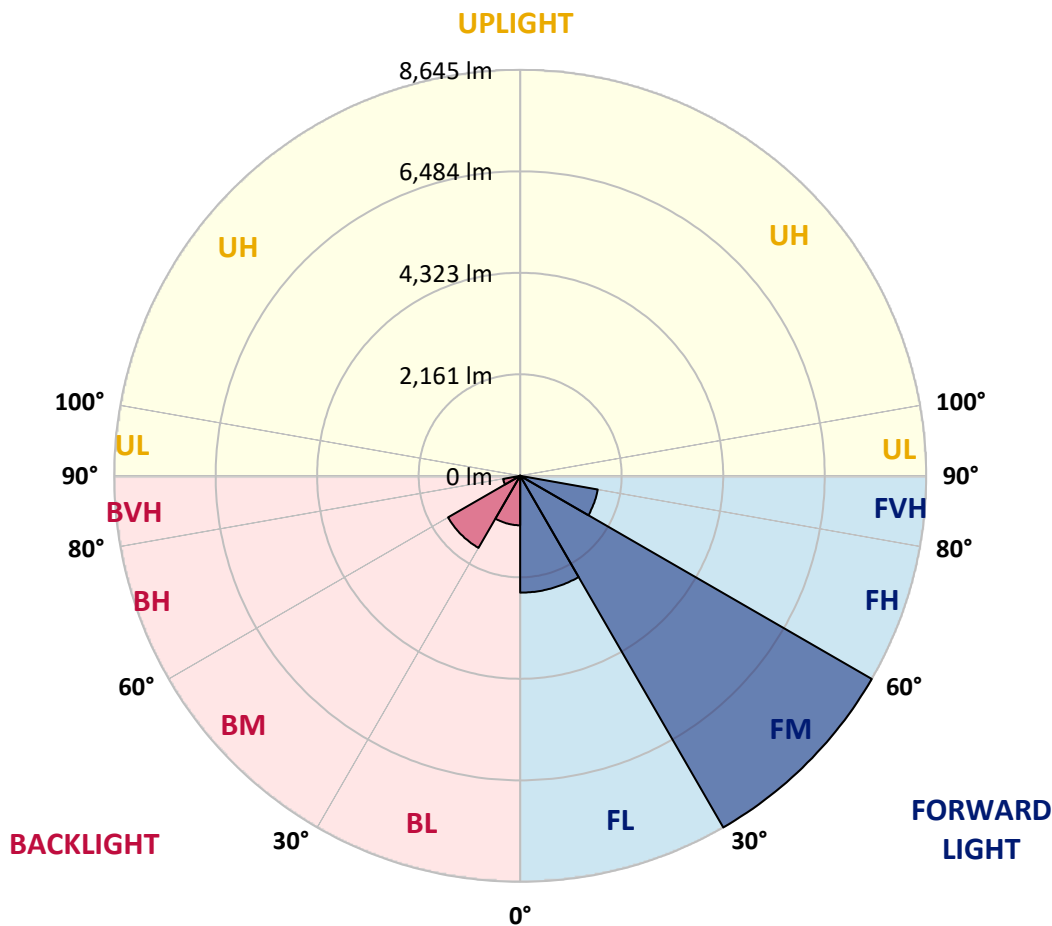
CATALOG NUMBER: GLAN-SA7A-730-U-SLR-GRSBK

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2488.0 | 15.5      |                         |      |         |
| FM   | (30°-60°)   | 8645.1 | 53.9      |                         |      |         |
| FH   | (60°-80°)   | 1677.0 | 10.5      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 14.6   | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1052.9 | 6.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1772.7 | 11.1      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 368.8  | 2.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 17.8   | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8132.8  | 8132.8  | 8132.8  | 8132.8 | 8132.8 | 8132.8 | 8132.8 | 8132.8 | 8132.8 | 8132.8 | 8132.8 |
| 2.5°  | 8454.1  | 8323.7  | 8158.2  | 8021.4 | 7817.8 | 7407.3 | 7296.0 | 7162.3 | 7051.0 | 6901.4 | 6691.4 |
| 5°    | 7687.3  | 7646.0  | 7569.6  | 7054.1 | 6681.9 | 6185.5 | 5778.2 | 5606.4 | 5380.5 | 5195.9 | 5062.3 |
| 7.5°  | 7101.9  | 6936.4  | 6694.6  | 6175.9 | 5580.9 | 5049.6 | 4597.8 | 4333.7 | 4034.6 | 3932.8 | 3751.4 |
| 10°   | 6475.0  | 6513.2  | 6156.9  | 5428.2 | 4709.1 | 4279.6 | 3999.6 | 3745.0 | 3474.6 | 3296.4 | 3038.7 |
| 12.5° | 6274.6  | 6150.5  | 5876.9  | 4976.4 | 4362.3 | 3961.4 | 3620.9 | 3305.9 | 3019.6 | 2733.2 | 2485.0 |
| 15°   | 6405.0  | 6214.1  | 5832.3  | 4880.9 | 4095.0 | 3595.5 | 3169.1 | 2742.7 | 2478.7 | 2112.7 | 1855.0 |
| 17.5° | 6872.8  | 6720.0  | 6207.8  | 4982.8 | 3958.2 | 3245.5 | 2612.3 | 2173.2 | 1769.1 | 1438.2 | 1307.7 |
| 20°   | 7652.3  | 7436.0  | 6793.2  | 5113.2 | 3754.6 | 2822.3 | 2119.1 | 1578.2 | 1196.4 | 1056.4 | 983.2  |
| 22.5° | 8416.0  | 8298.2  | 7486.9  | 5364.6 | 3573.2 | 2446.8 | 1590.9 | 1062.7 | 894.1  | 868.6  | 820.9  |
| 25°   | 9870.1  | 9516.9  | 8546.4  | 5819.6 | 3433.2 | 2093.7 | 1199.6 | 855.9  | 757.3  | 738.2  | 744.6  |
| 27.5° | 10735.5 | 10439.6 | 9526.4  | 6121.9 | 3277.3 | 1823.2 | 1015.0 | 785.9  | 719.1  | 677.7  | 661.8  |
| 30°   | 11566.0 | 11222.3 | 10013.2 | 6300.0 | 2943.2 | 1536.8 | 900.5  | 754.1  | 738.2  | 677.7  | 658.6  |
| 32.5° | 12205.5 | 11868.3 | 10716.4 | 6567.3 | 2806.4 | 1352.3 | 741.4  | 588.6  | 547.3  | 540.9  | 598.2  |
| 35°   | 13185.5 | 12826.0 | 11317.8 | 6713.7 | 2701.4 | 1256.8 | 642.7  | 525.0  | 477.3  | 458.2  | 461.4  |
| 37.5° | 14098.7 | 13853.7 | 11874.6 | 6771.0 | 2590.0 | 1228.2 | 575.9  | 470.9  | 429.5  | 416.8  | 413.6  |
| 40°   | 14862.4 | 14315.1 | 12402.8 | 6831.4 | 2542.3 | 1174.1 | 534.5  | 429.5  | 400.9  | 381.8  | 381.8  |
| 42.5° | 15212.4 | 14655.6 | 12994.6 | 6796.4 | 2529.6 | 1088.2 | 534.5  | 394.5  | 372.3  | 353.2  | 350.0  |
| 45°   | 15136.0 | 14910.1 | 13258.7 | 6780.5 | 2529.6 | 1002.3 | 486.8  | 385.0  | 353.2  | 327.7  | 321.4  |
| 47.5° | 15333.3 | 15037.4 | 13589.6 | 6847.3 | 2478.7 | 941.8  | 410.5  | 404.1  | 334.1  | 302.3  | 295.9  |
| 50°   | 15368.3 | 15425.6 | 14165.5 | 7194.1 | 2367.3 | 865.5  | 321.4  | 397.7  | 321.4  | 273.6  | 267.3  |
| 52°   | 15597.4 | 15241.0 | 14340.5 | 7378.7 | 2249.6 | 808.2  | 270.5  | 340.5  | 308.6  | 254.5  | 248.2  |
| 52.5° | 15282.4 | 15514.6 | 14381.9 | 7445.5 | 2262.3 | 770.0  | 260.9  | 334.1  | 302.3  | 254.5  | 238.6  |
| 55°   | 14929.2 | 15151.9 | 14213.3 | 7588.7 | 2074.6 | 604.5  | 203.6  | 241.8  | 273.6  | 222.7  | 213.2  |
| 57.5° | 12975.5 | 13201.5 | 12351.9 | 6949.1 | 1689.6 | 426.4  | 168.6  | 181.4  | 241.8  | 206.8  | 197.3  |
| 60°   | 11534.2 | 11371.9 | 10366.4 | 5797.3 | 1199.6 | 238.6  | 133.6  | 140.0  | 264.1  | 190.9  | 187.7  |
| 62.5° | 10541.4 | 10194.6 | 8664.1  | 4476.8 | 731.8  | 159.1  | 105.0  | 108.2  | 203.6  | 178.2  | 178.2  |
| 65°   | 7798.7  | 7410.5  | 5755.9  | 2707.7 | 359.5  | 111.4  | 79.5   | 85.9   | 127.3  | 152.7  | 152.7  |
| 67.5° | 4451.4  | 4301.8  | 2780.9  | 1221.8 | 149.5  | 70.0   | 60.5   | 66.8   | 98.6   | 124.1  | 117.7  |
| 70°   | 2045.9  | 1835.9  | 1069.1  | 257.7  | 70.0   | 47.7   | 47.7   | 54.1   | 79.5   | 92.3   | 85.9   |
| 72.5° | 598.2   | 566.4   | 260.9   | 41.4   | 28.6   | 28.6   | 31.8   | 41.4   | 60.5   | 70.0   | 63.6   |
| 75°   | 44.5    | 28.6    | 19.1    | 12.7   | 12.7   | 19.1   | 25.5   | 41.4   | 60.5   | 66.8   | 54.1   |
| 77.5° | 3.2     | 6.4     | 3.2     | 3.2    | 9.5    | 19.1   | 28.6   | 50.9   | 79.5   | 82.7   | 60.5   |
| 80°   | 3.2     | 3.2     | 0.0     | 3.2    | 9.5    | 19.1   | 31.8   | 57.3   | 89.1   | 95.5   | 50.9   |
| 82.5° | 0.0     | 0.0     | 0.0     | 3.2    | 12.7   | 25.5   | 38.2   | 60.5   | 82.7   | 101.8  | 54.1   |
| 85°   | 0.0     | 0.0     | 0.0     | 3.2    | 19.1   | 35.0   | 44.5   | 15.9   | 9.5    | 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°    | 8132.8 | 8132.8 | 8132.8 | 8132.8 | 8132.8 | 8132.8 | 8132.8 | 8132.8 | 8132.8 | 8132.8 | 8132.8 |
| 2.5°  | 6841.0 | 6758.2 | 6726.4 | 6755.0 | 6745.5 | 6736.0 | 6911.0 | 6872.8 | 6866.4 | 6923.7 | 6911.0 |
| 5°    | 5135.5 | 4989.1 | 5390.0 | 5227.8 | 5396.4 | 5498.2 | 5517.3 | 5526.9 | 5644.6 | 5520.5 | 5682.8 |
| 7.5°  | 3659.1 | 3697.3 | 3694.1 | 3802.3 | 3996.4 | 4168.2 | 4270.0 | 4190.5 | 4184.1 | 4168.2 | 4098.2 |
| 10°   | 2924.1 | 2857.3 | 2844.6 | 2819.1 | 2879.6 | 3025.9 | 3150.0 | 3051.4 | 2981.4 | 3076.8 | 3048.2 |
| 12.5° | 2389.6 | 2297.3 | 2246.4 | 2144.6 | 2147.7 | 2246.4 | 2246.4 | 2246.4 | 2316.4 | 2370.5 | 2411.8 |
| 15°   | 1832.7 | 1756.4 | 1756.4 | 1654.6 | 1632.3 | 1635.5 | 1686.4 | 1692.7 | 1804.1 | 1835.9 | 1851.8 |
| 17.5° | 1282.3 | 1240.9 | 1288.6 | 1330.0 | 1304.6 | 1310.9 | 1330.0 | 1336.4 | 1352.3 | 1339.6 | 1371.4 |
| 20°   | 986.4  | 980.0  | 992.7  | 1065.9 | 1120.0 | 1151.8 | 1129.6 | 1097.7 | 1078.6 | 1034.1 | 1034.1 |
| 22.5° | 836.8  | 849.6  | 871.8  | 932.3  | 1002.3 | 1021.4 | 995.9  | 922.7  | 865.5  | 859.1  | 862.3  |
| 25°   | 744.6  | 757.3  | 792.3  | 830.5  | 868.6  | 900.5  | 875.0  | 820.9  | 789.1  | 760.5  | 760.5  |
| 27.5° | 687.3  | 693.6  | 712.7  | 741.4  | 773.2  | 798.6  | 789.1  | 760.5  | 725.5  | 712.7  | 684.1  |
| 30°   | 642.7  | 652.3  | 674.5  | 680.9  | 709.6  | 722.3  | 706.4  | 700.0  | 677.7  | 661.8  | 652.3  |
| 32.5° | 620.5  | 617.3  | 633.2  | 639.5  | 642.7  | 652.3  | 633.2  | 642.7  | 639.5  | 614.1  | 604.5  |
| 35°   | 467.7  | 493.2  | 534.5  | 569.5  | 579.1  | 591.8  | 588.6  | 575.9  | 540.9  | 512.3  | 477.3  |
| 37.5° | 420.0  | 435.9  | 458.2  | 486.8  | 525.0  | 540.9  | 534.5  | 502.7  | 461.4  | 442.3  | 435.9  |
| 40°   | 388.2  | 397.7  | 416.8  | 435.9  | 474.1  | 502.7  | 480.5  | 451.8  | 420.0  | 404.1  | 394.5  |
| 42.5° | 359.5  | 362.7  | 372.3  | 391.4  | 420.0  | 464.5  | 426.4  | 388.2  | 375.5  | 365.9  | 359.5  |
| 45°   | 327.7  | 327.7  | 340.5  | 350.0  | 381.8  | 423.2  | 385.0  | 350.0  | 343.6  | 337.3  | 334.1  |
| 47.5° | 302.3  | 305.5  | 311.8  | 324.5  | 350.0  | 378.6  | 353.2  | 324.5  | 308.6  | 305.5  | 299.1  |
| 50°   | 270.5  | 273.6  | 286.4  | 299.1  | 330.9  | 346.8  | 330.9  | 299.1  | 283.2  | 273.6  | 273.6  |
| 52°   | 245.0  | 254.5  | 267.3  | 292.7  | 315.0  | 340.5  | 321.4  | 286.4  | 267.3  | 257.7  | 251.4  |
| 52.5° | 241.8  | 248.2  | 260.9  | 289.5  | 315.0  | 337.3  | 318.2  | 283.2  | 260.9  | 254.5  | 248.2  |
| 55°   | 216.4  | 225.9  | 248.2  | 283.2  | 311.8  | 337.3  | 311.8  | 280.0  | 248.2  | 232.3  | 225.9  |
| 57.5° | 206.8  | 213.2  | 241.8  | 286.4  | 308.6  | 337.3  | 311.8  | 280.0  | 248.2  | 219.5  | 213.2  |
| 60°   | 197.3  | 210.0  | 241.8  | 276.8  | 305.5  | 340.5  | 315.0  | 276.8  | 241.8  | 206.8  | 206.8  |
| 62.5° | 187.7  | 197.3  | 238.6  | 270.5  | 292.7  | 327.7  | 302.3  | 270.5  | 232.3  | 197.3  | 194.1  |
| 65°   | 162.3  | 178.2  | 210.0  | 225.9  | 251.4  | 283.2  | 257.7  | 235.5  | 203.6  | 175.0  | 171.8  |
| 67.5° | 124.1  | 130.5  | 155.9  | 175.0  | 190.9  | 219.5  | 206.8  | 178.2  | 155.9  | 133.6  | 133.6  |
| 70°   | 85.9   | 92.3   | 111.4  | 120.9  | 136.8  | 152.7  | 143.2  | 120.9  | 105.0  | 92.3   | 89.1   |
| 72.5° | 60.5   | 63.6   | 70.0   | 76.4   | 82.7   | 89.1   | 85.9   | 70.0   | 60.5   | 57.3   | 54.1   |
| 75°   | 47.7   | 54.1   | 57.3   | 54.1   | 50.9   | 47.7   | 47.7   | 41.4   | 35.0   | 31.8   | 31.8   |
| 77.5° | 47.7   | 50.9   | 47.7   | 41.4   | 35.0   | 31.8   | 28.6   | 25.5   | 19.1   | 15.9   | 19.1   |
| 80°   | 41.4   | 41.4   | 41.4   | 35.0   | 31.8   | 28.6   | 25.5   | 22.3   | 19.1   | 15.9   | 15.9   |
| 82.5° | 44.5   | 44.5   | 41.4   | 35.0   | 35.0   | 28.6   | 28.6   | 25.5   | 22.3   | 15.9   | 15.9   |
| 85°   | 0.0    | 0.0    | 0.0    | 6.4    | 15.9   | 28.6   | 28.6   | 25.5   | 22.3   | 19.1   | 19.1   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 3.2    | 6.4    | 12.7   | 15.9   | 19.1   | 19.1   | 19.1   |
| 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°    | 8132.8 | 8132.8 | 8132.8 | 8132.8 | 8132.8 | 8132.8 | 8132.8 | 8132.8 | 8132.8  | 8132.8  | 8132.8  |
| 2.5°  | 7025.5 | 7146.4 | 7375.5 | 7604.6 | 7744.6 | 7910.1 | 8209.1 | 8368.2 | 8575.1  | 8676.9  | 8877.3  |
| 5°    | 5660.5 | 5946.9 | 6048.7 | 6309.6 | 6589.6 | 6869.6 | 7315.0 | 7805.1 | 8212.3  | 8492.3  | 8855.1  |
| 7.5°  | 4130.0 | 4196.8 | 4591.4 | 4766.4 | 5224.6 | 5733.7 | 6341.4 | 6958.7 | 7474.1  | 7932.3  | 8209.1  |
| 10°   | 3095.9 | 3340.9 | 3589.1 | 3923.2 | 4292.3 | 4817.3 | 5399.6 | 6080.5 | 6748.7  | 7206.9  | 7556.9  |
| 12.5° | 2488.2 | 2682.3 | 3013.2 | 3372.7 | 3827.8 | 4174.6 | 4760.0 | 5434.6 | 6300.0  | 6748.7  | 7210.0  |
| 15°   | 1883.6 | 2131.8 | 2507.3 | 2879.6 | 3360.0 | 3725.9 | 4317.8 | 5167.3 | 6281.0  | 6898.2  | 7296.0  |
| 17.5° | 1396.8 | 1565.5 | 1902.7 | 2319.6 | 2809.6 | 3325.0 | 4123.7 | 5138.7 | 6494.1  | 7229.1  | 7639.6  |
| 20°   | 1069.1 | 1126.4 | 1339.6 | 1711.8 | 2243.2 | 2917.7 | 3808.7 | 5262.8 | 7124.1  | 8034.1  | 8451.0  |
| 22.5° | 865.5  | 890.9  | 973.6  | 1231.4 | 1746.8 | 2561.4 | 3659.1 | 5348.7 | 7833.7  | 8998.2  | 9555.1  |
| 25°   | 754.1  | 747.7  | 801.8  | 913.2  | 1365.0 | 2227.3 | 3468.2 | 5673.2 | 8702.3  | 10131.0 | 10630.5 |
| 27.5° | 687.3  | 687.3  | 712.7  | 792.3  | 1132.7 | 2010.9 | 3347.3 | 5905.5 | 9577.3  | 11126.9 | 11397.3 |
| 30°   | 652.3  | 658.6  | 731.8  | 757.3  | 941.8  | 1753.2 | 3146.8 | 6140.9 | 10414.2 | 11763.3 | 12135.5 |
| 32.5° | 604.5  | 579.1  | 563.2  | 626.8  | 792.3  | 1520.9 | 2946.4 | 6239.6 | 11091.9 | 12542.8 | 12861.0 |
| 35°   | 464.5  | 451.8  | 470.9  | 518.6  | 680.9  | 1323.6 | 2723.7 | 6351.0 | 11871.4 | 13446.5 | 13510.1 |
| 37.5° | 420.0  | 416.8  | 429.5  | 470.9  | 572.7  | 1151.8 | 2564.6 | 6322.3 | 12466.4 | 14194.2 | 14022.4 |
| 40°   | 388.2  | 388.2  | 397.7  | 432.7  | 512.3  | 1030.9 | 2399.1 | 6296.9 | 13042.4 | 15034.2 | 14531.5 |
| 42.5° | 362.7  | 362.7  | 378.6  | 400.9  | 486.8  | 951.4  | 2275.0 | 6261.9 | 13526.0 | 15549.6 | 14830.6 |
| 45°   | 327.7  | 337.3  | 362.7  | 385.0  | 493.2  | 897.3  | 2182.7 | 6128.2 | 13691.5 | 15543.3 | 14687.4 |
| 47.5° | 302.3  | 315.0  | 340.5  | 372.3  | 445.5  | 881.4  | 2119.1 | 6010.5 | 13634.2 | 15161.5 | 14238.7 |
| 50°   | 273.6  | 289.5  | 324.5  | 378.6  | 378.6  | 849.6  | 2052.3 | 6115.5 | 13592.8 | 14865.6 | 13809.2 |
| 52°   | 254.5  | 267.3  | 311.8  | 369.1  | 330.9  | 782.7  | 2010.9 | 6319.1 | 13761.5 | 14827.4 | 13618.3 |
| 52.5° | 251.4  | 260.9  | 302.3  | 362.7  | 315.0  | 770.0  | 1982.3 | 6366.9 | 13815.5 | 14731.9 | 13748.7 |
| 55°   | 222.7  | 235.5  | 276.8  | 283.2  | 257.7  | 633.2  | 1890.0 | 6475.0 | 13548.3 | 14544.2 | 13624.6 |
| 57.5° | 210.0  | 216.4  | 245.0  | 232.3  | 222.7  | 477.3  | 1625.9 | 6306.4 | 12033.7 | 12918.3 | 12676.4 |
| 60°   | 194.1  | 200.5  | 229.1  | 181.4  | 187.7  | 334.1  | 1221.8 | 5475.9 | 9663.2  | 10764.2 | 11200.1 |
| 62.5° | 187.7  | 184.5  | 216.4  | 146.4  | 159.1  | 241.8  | 862.3  | 4451.4 | 7445.5  | 8861.4  | 9615.5  |
| 65°   | 165.5  | 162.3  | 155.9  | 124.1  | 136.8  | 187.7  | 515.5  | 2905.0 | 5246.9  | 6704.1  | 7117.8  |
| 67.5° | 127.3  | 133.6  | 114.5  | 98.6   | 114.5  | 146.4  | 286.4  | 1301.4 | 2752.3  | 4021.8  | 4355.9  |
| 70°   | 89.1   | 95.5   | 92.3   | 85.9   | 101.8  | 120.9  | 165.5  | 445.5  | 1139.1  | 2112.7  | 2329.1  |
| 72.5° | 54.1   | 66.8   | 70.0   | 73.2   | 89.1   | 105.0  | 117.7  | 143.2  | 302.3   | 747.7   | 929.1   |
| 75°   | 31.8   | 44.5   | 54.1   | 63.6   | 73.2   | 89.1   | 98.6   | 101.8  | 105.0   | 140.0   | 225.9   |
| 77.5° | 22.3   | 31.8   | 47.7   | 60.5   | 73.2   | 89.1   | 105.0  | 111.4  | 105.0   | 98.6    | 105.0   |
| 80°   | 19.1   | 31.8   | 44.5   | 57.3   | 76.4   | 92.3   | 105.0  | 105.0  | 101.8   | 89.1    | 95.5    |
| 82.5° | 19.1   | 31.8   | 47.7   | 60.5   | 73.2   | 89.1   | 101.8  | 105.0  | 95.5    | 89.1    | 92.3    |
| 85°   | 22.3   | 35.0   | 50.9   | 63.6   | 79.5   | 73.2   | 66.8   | 54.1   | 50.9    | 41.4    | 44.5    |
| 87.5° | 22.3   | 31.8   | 31.8   | 35.0   | 38.2   | 38.2   | 38.2   | 35.0   | 28.6    | 25.5    | 25.5    |
| 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):**

|       | 285°    | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 359°    | 360°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8132.8  | 8132.8  | 8132.8  | 8132.8  | 8132.8  | 8132.8  | 8132.8  | 8132.8  | 8132.8  | 8132.8  |
| 2.5°  | 8886.9  | 9141.4  | 9131.9  | 9138.2  | 9100.1  | 8842.3  | 8718.2  | 8403.2  | 8492.3  | 8454.1  |
| 5°    | 9227.3  | 9478.7  | 9695.1  | 9669.6  | 9376.9  | 9026.9  | 8508.2  | 8018.2  | 7884.6  | 7687.3  |
| 7.5°  | 8886.9  | 9491.4  | 9691.9  | 9663.2  | 9230.5  | 8781.9  | 7954.6  | 7464.6  | 7232.3  | 7101.9  |
| 10°   | 8346.0  | 9046.0  | 9294.2  | 9345.1  | 9052.3  | 8371.4  | 7611.0  | 6825.0  | 6701.0  | 6475.0  |
| 12.5° | 8037.3  | 8546.4  | 8699.1  | 8836.0  | 8734.1  | 8225.1  | 7350.0  | 6596.0  | 6424.1  | 6274.6  |
| 15°   | 7786.0  | 8088.2  | 8151.9  | 8307.8  | 8368.2  | 8094.6  | 7486.9  | 6844.1  | 6421.0  | 6405.0  |
| 17.5° | 8018.2  | 7894.1  | 7661.9  | 7709.6  | 7900.5  | 8097.8  | 7840.1  | 7334.1  | 6923.7  | 6872.8  |
| 20°   | 8403.2  | 7856.0  | 7331.0  | 7448.7  | 7607.8  | 8212.3  | 8374.6  | 8018.2  | 7782.8  | 7652.3  |
| 22.5° | 8845.5  | 7922.8  | 7226.0  | 7283.2  | 7585.5  | 8470.1  | 9240.1  | 9042.8  | 8603.7  | 8416.0  |
| 25°   | 9663.2  | 8107.3  | 7308.7  | 7346.9  | 7760.5  | 8829.6  | 10022.8 | 10169.2 | 9908.2  | 9870.1  |
| 27.5° | 10461.9 | 8584.6  | 7490.0  | 7404.1  | 7849.6  | 9179.6  | 10496.9 | 11282.8 | 10824.6 | 10735.5 |
| 30°   | 10869.2 | 8972.8  | 7760.5  | 7614.1  | 8218.7  | 9392.8  | 10783.3 | 12008.3 | 11607.3 | 11566.0 |
| 32.5° | 11492.8 | 9326.0  | 7970.5  | 7782.8  | 8425.5  | 9656.9  | 11317.8 | 12800.5 | 12412.4 | 12205.5 |
| 35°   | 11753.7 | 9711.0  | 8431.9  | 8212.3  | 9017.3  | 10026.0 | 11591.4 | 13506.9 | 13386.0 | 13185.5 |
| 37.5° | 12256.4 | 10124.6 | 8976.0  | 8963.2  | 9733.2  | 10506.4 | 12084.6 | 14467.8 | 14445.5 | 14098.7 |
| 40°   | 12297.8 | 10576.4 | 9835.1  | 10236.0 | 10840.5 | 11343.3 | 12517.4 | 14735.1 | 15097.8 | 14862.4 |
| 42.5° | 12361.4 | 11368.7 | 11321.0 | 11651.9 | 12170.5 | 12062.4 | 12533.3 | 14798.7 | 15352.4 | 15212.4 |
| 45°   | 12390.1 | 12161.0 | 12832.4 | 13443.3 | 13659.6 | 13004.2 | 12383.7 | 14677.8 | 15486.0 | 15136.0 |
| 47.5° | 12161.0 | 12841.9 | 14054.2 | 15234.6 | 15298.3 | 13583.3 | 12320.1 | 14553.7 | 15565.6 | 15333.3 |
| 50°   | 12192.8 | 13268.3 | 15110.6 | 16166.9 | 15934.6 | 14095.5 | 12221.4 | 14477.4 | 15524.2 | 15368.3 |
| 52°   | 12116.4 | 13277.8 | 15260.1 | 16147.8 | 15985.6 | 13812.4 | 12052.8 | 14184.6 | 15486.0 | 15597.4 |
| 52.5° | 12202.4 | 13220.5 | 15104.2 | 16160.6 | 15950.6 | 13952.4 | 12030.5 | 14346.9 | 15508.3 | 15282.4 |
| 55°   | 11906.4 | 12539.6 | 14191.0 | 14639.6 | 14607.8 | 12663.7 | 11346.4 | 13809.2 | 14926.0 | 14929.2 |
| 57.5° | 10761.0 | 10869.2 | 11130.1 | 11120.5 | 10974.2 | 9956.0  | 9704.6  | 12698.7 | 13306.5 | 12975.5 |
| 60°   | 9481.9  | 7957.8  | 7254.6  | 6968.2  | 6806.0  | 6640.5  | 8584.6  | 11616.9 | 11674.2 | 11534.2 |
| 62.5° | 8193.2  | 5517.3  | 4581.8  | 4502.3  | 4540.5  | 5145.0  | 8298.2  | 11187.3 | 10843.7 | 10541.4 |
| 65°   | 6611.9  | 4021.8  | 3328.2  | 3223.2  | 3595.5  | 4247.8  | 6716.9  | 8578.2  | 8050.1  | 7798.7  |
| 67.5° | 4152.3  | 2933.7  | 2249.6  | 2052.3  | 2500.9  | 2924.1  | 4413.2  | 5390.0  | 4798.2  | 4451.4  |
| 70°   | 2462.7  | 1638.6  | 1018.2  | 913.2   | 1027.7  | 1559.1  | 2472.3  | 2688.7  | 2224.1  | 2045.9  |
| 72.5° | 970.5   | 601.4   | 283.2   | 241.8   | 251.4   | 547.3   | 910.0   | 887.7   | 671.4   | 598.2   |
| 75°   | 260.9   | 181.4   | 98.6    | 79.5    | 66.8    | 101.8   | 146.4   | 95.5    | 35.0    | 44.5    |
| 77.5° | 120.9   | 108.2   | 85.9    | 66.8    | 50.9    | 38.2    | 19.1    | 6.4     | 6.4     | 3.2     |
| 80°   | 105.0   | 92.3    | 79.5    | 66.8    | 50.9    | 31.8    | 15.9    | 3.2     | 3.2     | 3.2     |
| 82.5° | 98.6    | 85.9    | 73.2    | 60.5    | 47.7    | 31.8    | 15.9    | 3.2     | 0.0     | 0.0     |
| 85°   | 41.4    | 54.1    | 60.5    | 57.3    | 50.9    | 31.8    | 15.9    | 3.2     | 0.0     | 0.0     |
| 87.5° | 22.3    | 19.1    | 15.9    | 12.7    | 9.5     | 6.4     | 6.4     | 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)