

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: P324632

Luminaire Tested: **GAN-SA8A-830-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324632  
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 (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8A-830-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 615mA 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: 22000 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G4

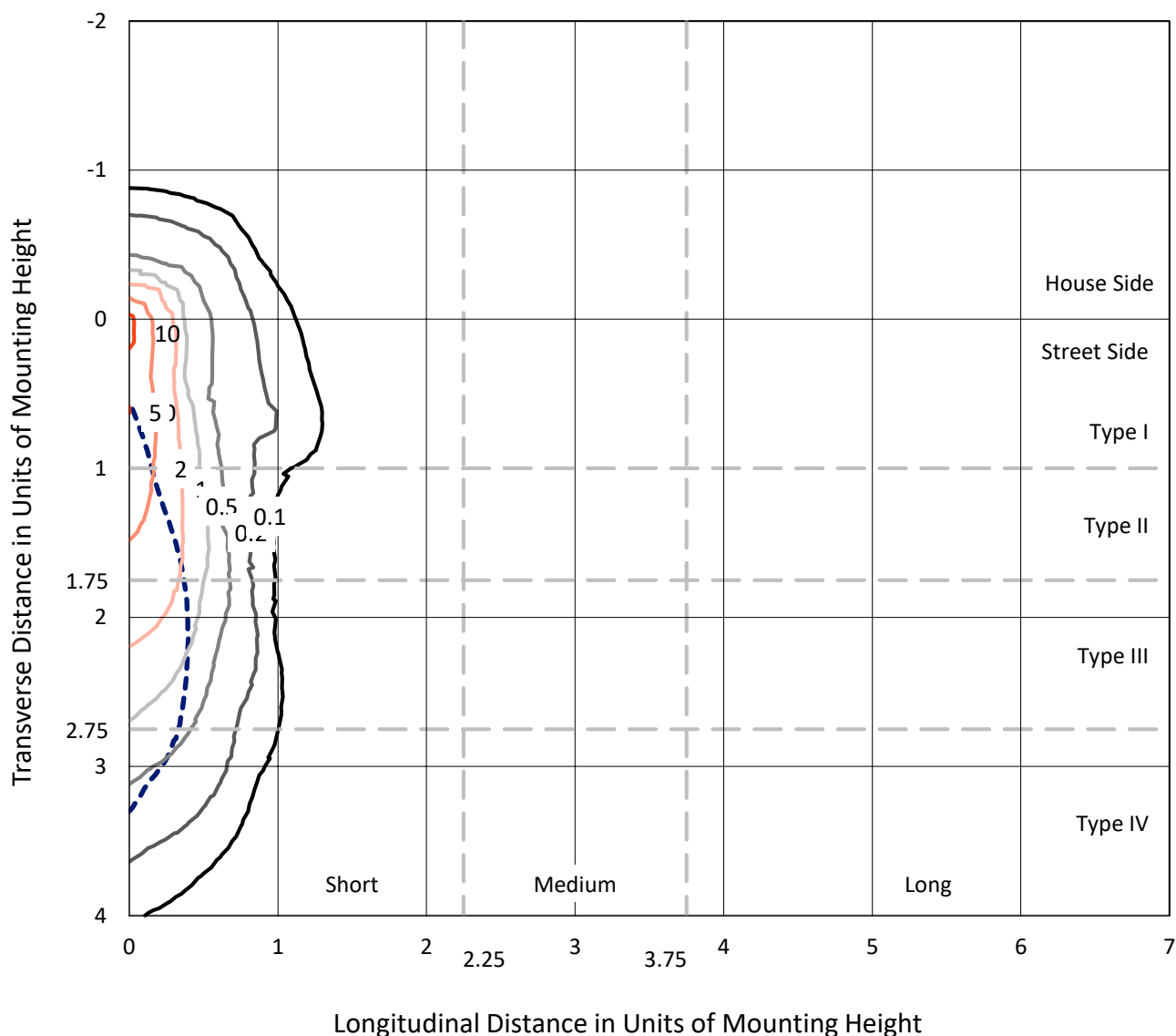
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

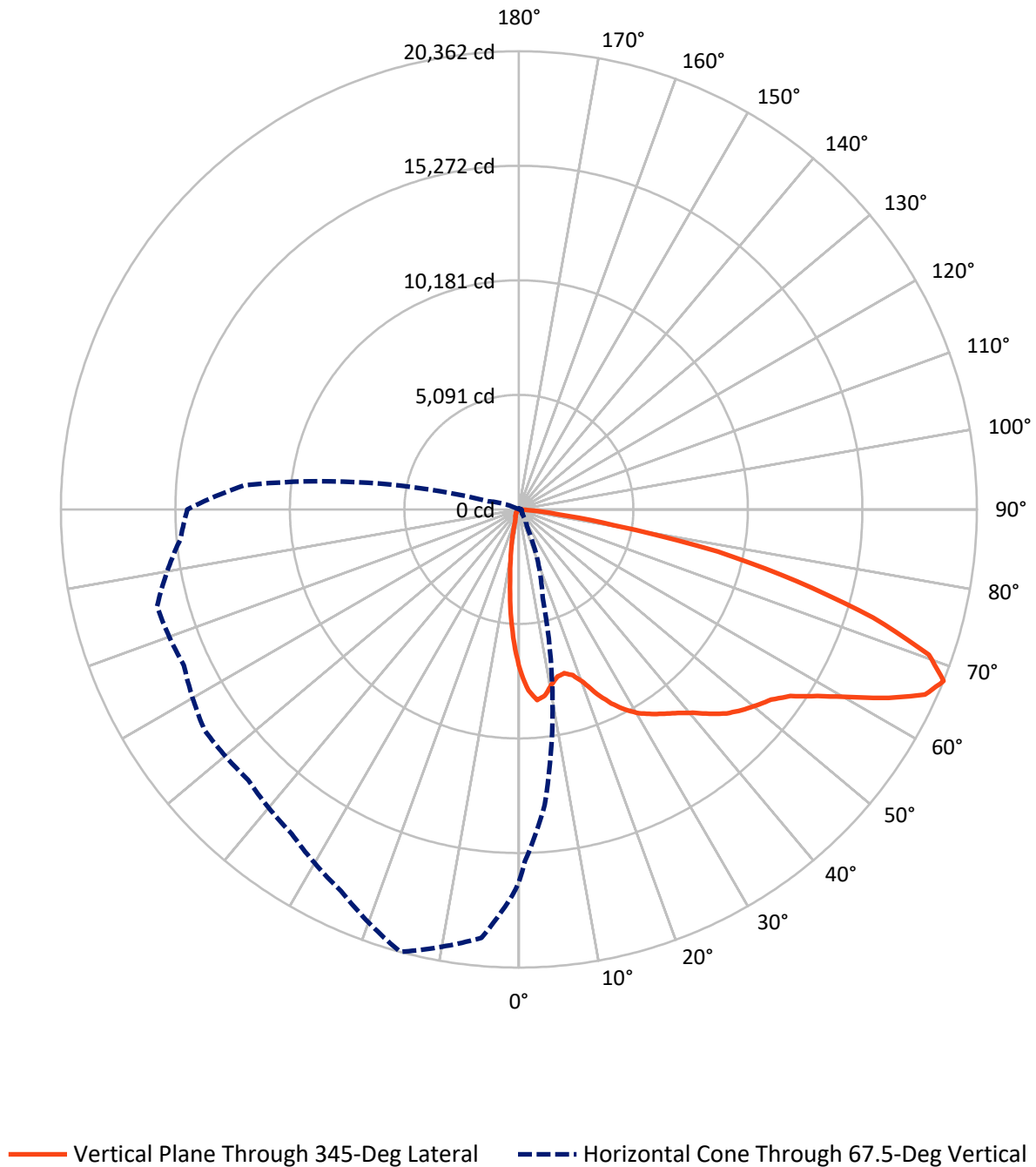
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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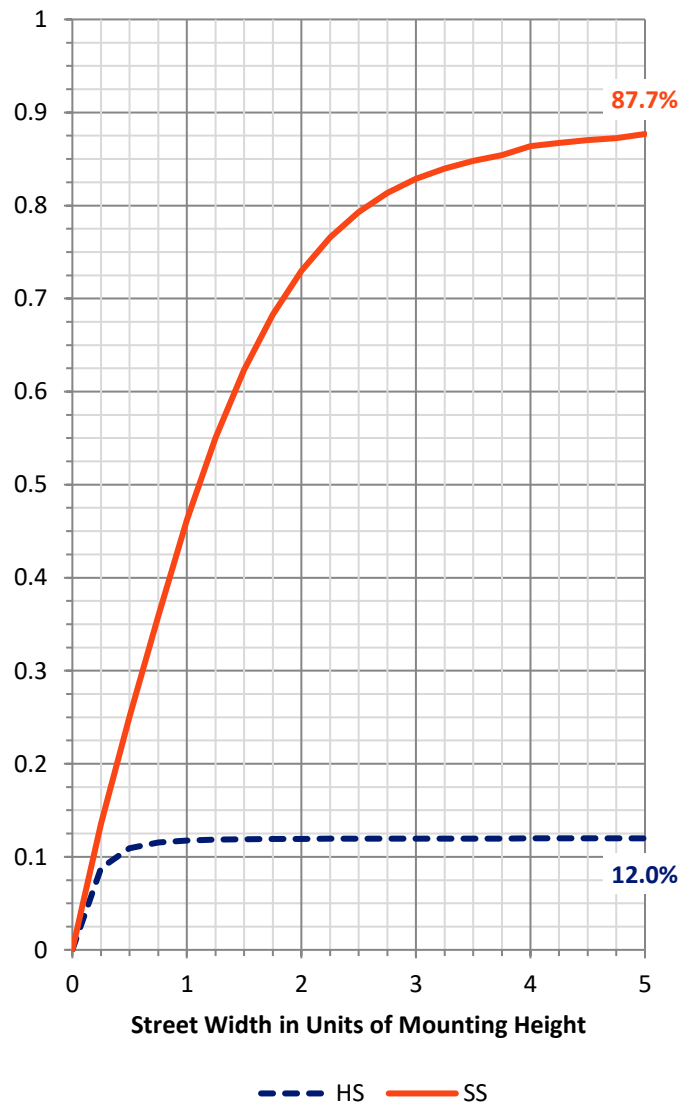
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2662.7   | 0.0    | 2662.7  |
|                    | % Fixture | 12.1     | 0.0    | 12.1    |
| <b>Street Side</b> | Lumens    | 19337.3  | 0.0    | 19337.3 |
|                    | % Fixture | 87.9     | 0.0    | 87.9    |
| <b>Total</b>       | Lumens    | 22000.0  | 0.0    | 22000.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 550.0   | 2.5       |
| 10°-20°   | 1094.8  | 5.0       |
| 20°-30°   | 1554.6  | 7.1       |
| 30°-40°   | 2296.3  | 10.4      |
| 40°-50°   | 3311.7  | 15.1      |
| 50°-60°   | 4648.9  | 21.1      |
| 60°-70°   | 5419.3  | 24.6      |
| 70°-80°   | 2770.5  | 12.6      |
| 80°-90°   | 353.8   | 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°    | 22000.0 | 100.0     |
| 0°-180°   | 22000.0 | 100.0     |

**Coefficient of Utilization**



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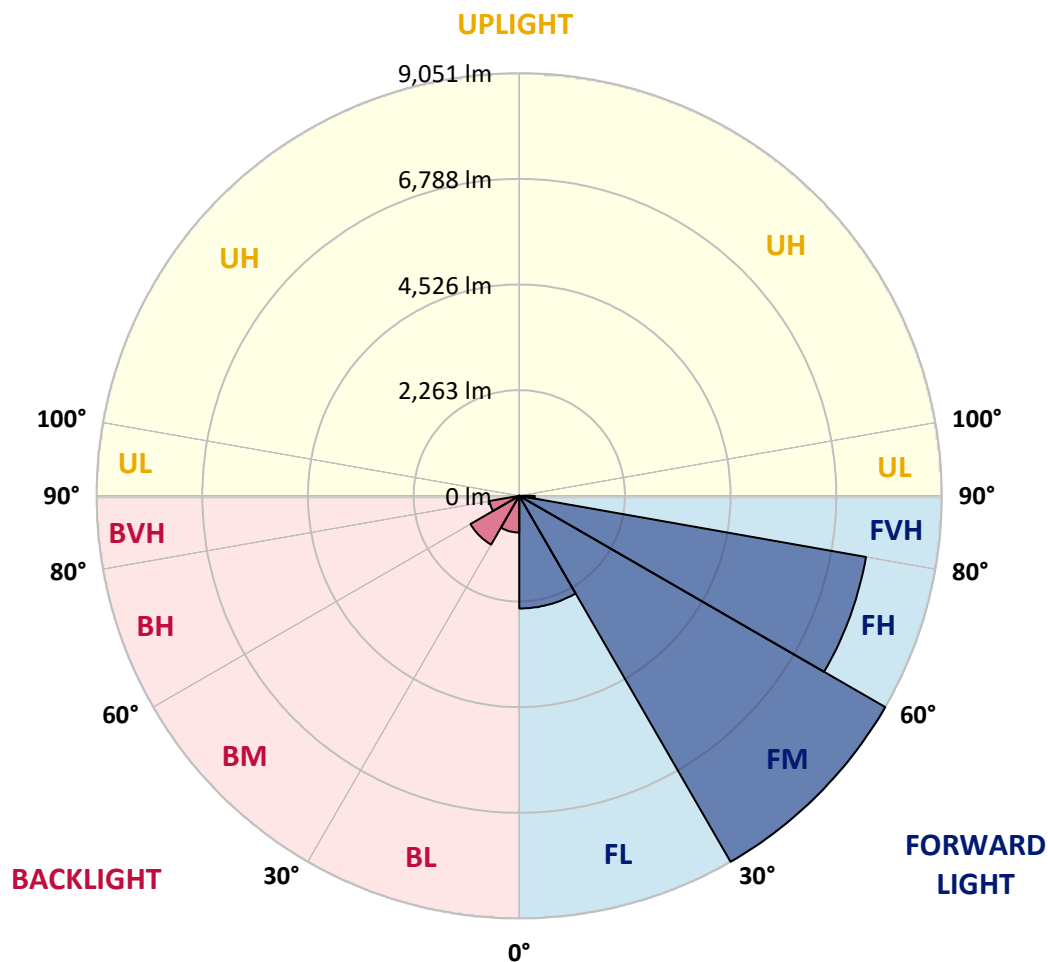
CATALOG NUMBER: GAN-SA8A-830-U-SLR-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2413.0 | 11.0      |                         |      |          |
| FM   | (30°-60°)   | 9051.2 | 41.1      |                         |      |          |
| FH   | (60°-80°)   | 7540.8 | 34.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 332.3  | 1.5       |                         |      | G3/500   |
| BL   | (0°-30°)    | 786.5  | 3.6       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1205.8 | 5.5       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 649.0  | 2.9       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 21.5   | 0.1       |                         |      | G1/100   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7166.5  | 7166.5  | 7166.5  | 7166.5 | 7166.5 | 7166.5 | 7166.5 | 7166.5 | 7166.5 | 7166.5 | 7166.5 |
| 2.5°  | 7847.0  | 7786.6  | 7719.9  | 7502.1 | 7299.9 | 7068.5 | 6879.8 | 6748.5 | 6583.8 | 6370.2 | 6316.0 |
| 5°    | 7790.8  | 7726.1  | 7516.7  | 7032.0 | 6607.8 | 6195.1 | 5797.0 | 5563.5 | 5273.7 | 4979.8 | 4906.9 |
| 7.5°  | 7224.8  | 7157.1  | 6854.8  | 6190.9 | 5619.8 | 5023.6 | 4506.7 | 4186.7 | 3859.4 | 3590.5 | 3447.7 |
| 10°   | 6636.0  | 6562.0  | 6222.2  | 5416.5 | 4713.0 | 4174.2 | 3794.8 | 3489.4 | 3179.9 | 2892.2 | 2662.9 |
| 12.5° | 6230.5  | 6133.6  | 5764.6  | 4851.6 | 4238.8 | 3873.0 | 3518.6 | 3152.8 | 2733.8 | 2425.3 | 2173.1 |
| 15°   | 6060.6  | 5950.2  | 5560.4  | 4633.8 | 4071.0 | 3641.6 | 3179.9 | 2730.7 | 2239.8 | 1886.5 | 1655.1 |
| 17.5° | 6192.0  | 6048.1  | 5630.2  | 4619.2 | 3860.5 | 3275.8 | 2692.1 | 2164.7 | 1632.2 | 1274.7 | 1110.0 |
| 20°   | 6638.0  | 6449.4  | 5918.9  | 4615.0 | 3605.1 | 2841.2 | 2101.2 | 1505.0 | 1075.6 | 865.1  | 778.6  |
| 22.5° | 7340.5  | 7091.4  | 6333.7  | 4648.4 | 3341.4 | 2384.7 | 1517.5 | 1022.4 | 807.7  | 698.3  | 647.2  |
| 25°   | 8188.9  | 7900.2  | 6930.9  | 4766.2 | 3110.1 | 1940.7 | 1102.7 | 807.7  | 681.6  | 601.4  | 558.6  |
| 27.5° | 8995.6  | 8761.1  | 7685.5  | 4936.1 | 2930.8 | 1582.1 | 895.3  | 684.8  | 582.6  | 529.5  | 495.1  |
| 30°   | 9801.2  | 9506.3  | 8459.9  | 5138.3 | 2715.0 | 1339.3 | 786.9  | 624.3  | 522.2  | 465.9  | 444.0  |
| 32.5° | 10387.0 | 10142.1 | 9066.5  | 5284.2 | 2484.7 | 1180.9 | 703.5  | 571.1  | 487.8  | 430.4  | 398.1  |
| 35°   | 11075.9 | 10798.7 | 9586.5  | 5316.5 | 2336.7 | 1080.8 | 632.6  | 513.8  | 423.2  | 372.1  | 337.7  |
| 37.5° | 11820.1 | 11475.1 | 10186.9 | 5245.6 | 2221.0 | 1031.8 | 579.5  | 487.8  | 395.0  | 342.9  | 306.4  |
| 40°   | 12643.4 | 12253.6 | 10763.2 | 5143.5 | 2107.4 | 1015.1 | 538.8  | 468.0  | 373.1  | 320.0  | 282.4  |
| 42.5° | 13510.6 | 13051.0 | 11262.5 | 5036.1 | 2035.5 | 957.8  | 534.7  | 448.2  | 356.4  | 299.1  | 261.6  |
| 45°   | 14239.1 | 13773.2 | 11775.3 | 5000.7 | 1984.4 | 895.3  | 552.4  | 434.6  | 345.0  | 282.4  | 246.0  |
| 47.5° | 14819.6 | 14378.8 | 12300.5 | 5079.9 | 1955.2 | 838.0  | 503.4  | 452.3  | 338.7  | 267.9  | 232.4  |
| 50°   | 15512.7 | 15013.5 | 13040.5 | 5316.5 | 1912.5 | 780.6  | 455.5  | 518.0  | 338.7  | 258.5  | 221.0  |
| 52.5° | 16382.0 | 15887.9 | 13866.0 | 5683.3 | 1827.1 | 701.4  | 409.6  | 519.0  | 341.9  | 246.0  | 206.4  |
| 55°   | 17475.3 | 17116.7 | 15044.8 | 6085.7 | 1690.5 | 584.7  | 354.4  | 446.1  | 329.3  | 223.0  | 192.8  |
| 57.5° | 18523.8 | 18230.9 | 16119.3 | 6360.8 | 1508.1 | 456.5  | 308.5  | 359.6  | 301.2  | 195.9  | 172.0  |
| 59°   | 18810.4 | 18490.4 | 16513.3 | 6373.3 | 1371.6 | 398.1  | 285.6  | 297.0  | 295.0  | 183.4  | 159.5  |
| 60°   | 18810.4 | 18470.6 | 16626.9 | 6306.6 | 1272.6 | 365.8  | 271.0  | 264.7  | 307.5  | 175.1  | 152.2  |
| 62.5° | 18469.6 | 17992.2 | 16257.9 | 5855.3 | 1038.1 | 311.6  | 236.6  | 218.9  | 276.2  | 157.4  | 134.4  |
| 65°   | 17760.9 | 17065.7 | 15001.0 | 5039.2 | 925.5  | 285.6  | 204.3  | 179.3  | 191.8  | 138.6  | 117.8  |
| 67.5° | 16579.0 | 15636.8 | 13188.5 | 4071.0 | 880.7  | 278.3  | 176.1  | 152.2  | 144.9  | 118.8  | 103.2  |
| 70°   | 14497.6 | 13452.2 | 10988.4 | 3200.7 | 842.1  | 275.2  | 148.0  | 128.2  | 116.7  | 100.1  | 87.5   |
| 72.5° | 10551.7 | 9461.5  | 7801.2  | 2502.4 | 819.2  | 281.4  | 118.8  | 107.4  | 95.9   | 78.2   | 67.7   |
| 75°   | 6035.6  | 5321.7  | 4384.7  | 1653.0 | 698.3  | 268.9  | 91.7   | 89.6   | 68.8   | 56.3   | 46.9   |
| 77.5° | 3118.4  | 3023.5  | 2627.5  | 634.7  | 334.6  | 117.8  | 60.5   | 52.1   | 40.6   | 34.4   | 28.1   |
| 80°   | 1345.5  | 1330.9  | 1151.7  | 183.4  | 88.6   | 65.7   | 34.4   | 21.9   | 18.8   | 14.6   | 11.5   |
| 82.5° | 464.8   | 464.8   | 409.6   | 61.5   | 39.6   | 32.3   | 4.2    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 93.8    | 105.3   | 74.0    | 0.0    | 13.5   | 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°    | 7166.5 | 7166.5 | 7166.5 | 7166.5 | 7166.5 | 7166.5 | 7166.5 | 7166.5 | 7166.5 | 7166.5 | 7166.5 |
| 2.5°  | 6250.3 | 6124.2 | 6115.9 | 6036.7 | 5937.7 | 5892.8 | 5866.8 | 5912.6 | 5968.9 | 5975.2 | 6059.6 |
| 5°    | 4851.6 | 4719.3 | 4774.5 | 4633.8 | 4662.0 | 4633.8 | 4588.0 | 4596.3 | 4621.3 | 4543.1 | 4640.1 |
| 7.5°  | 3407.1 | 3307.0 | 3370.6 | 3333.1 | 3383.1 | 3402.9 | 3374.8 | 3333.1 | 3210.1 | 3195.5 | 3279.9 |
| 10°   | 2568.1 | 2454.5 | 2386.7 | 2315.9 | 2331.5 | 2363.8 | 2353.4 | 2323.2 | 2245.0 | 2249.2 | 2330.5 |
| 12.5° | 2063.6 | 1936.5 | 1802.0 | 1628.0 | 1585.3 | 1609.2 | 1585.3 | 1567.5 | 1492.5 | 1498.7 | 1570.7 |
| 15°   | 1565.4 | 1461.2 | 1320.5 | 1180.9 | 1104.8 | 1112.1 | 1045.4 | 998.5  | 951.6  | 895.3  | 939.1  |
| 17.5° | 1056.8 | 993.3  | 951.6  | 909.9  | 819.2  | 798.4  | 713.9  | 623.3  | 587.8  | 561.8  | 580.5  |
| 20°   | 748.3  | 713.9  | 697.3  | 695.2  | 643.1  | 617.0  | 534.7  | 478.4  | 460.7  | 455.5  | 466.9  |
| 22.5° | 625.3  | 600.3  | 576.4  | 562.8  | 536.8  | 506.5  | 444.0  | 415.9  | 403.3  | 397.1  | 405.4  |
| 25°   | 544.1  | 525.3  | 500.3  | 477.3  | 466.9  | 434.6  | 389.8  | 369.0  | 360.6  | 354.4  | 358.5  |
| 27.5° | 483.6  | 466.9  | 437.7  | 423.2  | 414.8  | 386.7  | 348.1  | 331.4  | 324.1  | 322.1  | 321.0  |
| 30°   | 435.7  | 420.0  | 392.9  | 376.2  | 361.7  | 336.6  | 313.7  | 297.0  | 289.7  | 287.7  | 285.6  |
| 32.5° | 387.7  | 375.2  | 357.5  | 340.8  | 325.2  | 302.3  | 282.4  | 268.9  | 257.4  | 255.3  | 254.3  |
| 35°   | 327.3  | 314.8  | 305.4  | 304.3  | 289.7  | 267.9  | 253.3  | 235.5  | 226.2  | 223.0  | 224.1  |
| 37.5° | 290.8  | 274.1  | 253.3  | 260.6  | 256.4  | 240.8  | 221.0  | 203.2  | 193.9  | 191.8  | 191.8  |
| 40°   | 267.9  | 250.1  | 226.2  | 213.7  | 226.2  | 223.0  | 191.8  | 174.1  | 164.7  | 163.6  | 161.5  |
| 42.5° | 246.0  | 228.3  | 201.2  | 180.3  | 186.6  | 195.9  | 165.7  | 149.0  | 139.7  | 137.6  | 134.4  |
| 45°   | 230.3  | 211.6  | 181.4  | 157.4  | 144.9  | 164.7  | 141.7  | 120.9  | 115.7  | 111.5  | 109.4  |
| 47.5° | 215.7  | 198.0  | 163.6  | 136.5  | 115.7  | 118.8  | 113.6  | 99.0   | 92.8   | 88.6   | 87.5   |
| 50°   | 203.2  | 184.5  | 148.0  | 116.7  | 95.9   | 87.5   | 91.7   | 78.2   | 73.0   | 68.8   | 66.7   |
| 52.5° | 188.6  | 170.9  | 131.3  | 101.1  | 80.3   | 68.8   | 69.8   | 61.5   | 56.3   | 53.2   | 52.1   |
| 55°   | 177.2  | 159.5  | 117.8  | 88.6   | 70.9   | 56.3   | 50.0   | 47.9   | 44.8   | 42.7   | 41.7   |
| 57.5° | 161.5  | 144.9  | 104.2  | 75.0   | 60.5   | 45.9   | 38.6   | 38.6   | 37.5   | 35.4   | 34.4   |
| 59°   | 152.2  | 137.6  | 95.9   | 67.7   | 55.2   | 39.6   | 34.4   | 35.4   | 34.4   | 32.3   | 31.3   |
| 60°   | 144.9  | 131.3  | 89.6   | 62.5   | 52.1   | 36.5   | 31.3   | 33.4   | 32.3   | 30.2   | 29.2   |
| 62.5° | 128.2  | 118.8  | 77.1   | 52.1   | 45.9   | 29.2   | 26.1   | 28.1   | 28.1   | 27.1   | 26.1   |
| 65°   | 112.6  | 102.1  | 65.7   | 43.8   | 42.7   | 25.0   | 20.8   | 25.0   | 26.1   | 24.0   | 21.9   |
| 67.5° | 98.0   | 87.5   | 57.3   | 35.4   | 39.6   | 19.8   | 15.6   | 20.8   | 28.1   | 21.9   | 19.8   |
| 70°   | 83.4   | 73.0   | 44.8   | 28.1   | 41.7   | 13.5   | 12.5   | 18.8   | 33.4   | 24.0   | 18.8   |
| 72.5° | 64.6   | 56.3   | 31.3   | 20.8   | 44.8   | 9.4    | 9.4    | 15.6   | 37.5   | 26.1   | 17.7   |
| 75°   | 44.8   | 36.5   | 18.8   | 12.5   | 36.5   | 6.3    | 6.3    | 14.6   | 35.4   | 24.0   | 16.7   |
| 77.5° | 26.1   | 19.8   | 6.3    | 1.0    | 18.8   | 0.0    | 1.0    | 10.4   | 25.0   | 14.6   | 7.3    |
| 80°   | 9.4    | 4.2    | 0.0    | 0.0    | 11.5   | 0.0    | 0.0    | 0.0    | 2.1    | 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°    | 7166.5 | 7166.5 | 7166.5 | 7166.5 | 7166.5 | 7166.5 | 7166.5 | 7166.5 | 7166.5  | 7166.5  | 7166.5  |
| 2.5°  | 6081.5 | 6222.2 | 6348.3 | 6539.0 | 6765.2 | 7025.8 | 7249.8 | 7490.6 | 7716.8  | 7810.6  | 7875.2  |
| 5°    | 4659.9 | 4833.9 | 5037.2 | 5317.5 | 5690.6 | 6150.3 | 6580.7 | 7067.4 | 7590.7  | 7852.3  | 8098.2  |
| 7.5°  | 3294.5 | 3471.7 | 3723.9 | 4022.0 | 4473.3 | 5020.5 | 5583.3 | 6255.5 | 6964.3  | 7378.0  | 7785.6  |
| 10°   | 2369.0 | 2586.8 | 2822.4 | 3229.9 | 3688.5 | 4207.5 | 4787.0 | 5537.4 | 6327.5  | 6786.0  | 7276.9  |
| 12.5° | 1612.3 | 1860.4 | 2216.8 | 2673.4 | 3212.2 | 3720.8 | 4224.2 | 4940.2 | 5857.4  | 6311.8  | 6838.2  |
| 15°   | 967.2  | 1104.8 | 1482.1 | 2010.5 | 2671.3 | 3305.0 | 3856.3 | 4574.4 | 5552.0  | 6108.6  | 6655.8  |
| 17.5° | 596.2  | 659.7  | 865.1  | 1298.6 | 1992.8 | 2794.3 | 3549.9 | 4450.4 | 5595.8  | 6273.3  | 6859.0  |
| 20°   | 475.3  | 500.3  | 565.9  | 767.1  | 1320.5 | 2231.4 | 3204.9 | 4425.4 | 5953.3  | 6787.1  | 7415.6  |
| 22.5° | 412.7  | 436.7  | 480.5  | 557.6  | 830.7  | 1670.7 | 2877.6 | 4448.3 | 6466.1  | 7557.3  | 8291.0  |
| 25°   | 363.7  | 384.6  | 426.3  | 489.9  | 608.7  | 1176.7 | 2527.4 | 4550.4 | 7134.1  | 8513.0  | 9292.6  |
| 27.5° | 325.2  | 342.9  | 381.5  | 439.8  | 522.2  | 821.3  | 2130.3 | 4674.5 | 7926.3  | 9490.7  | 10259.8 |
| 30°   | 289.7  | 305.4  | 339.8  | 394.0  | 453.4  | 631.6  | 1694.7 | 4758.9 | 8719.4  | 10259.8 | 10950.8 |
| 32.5° | 259.5  | 271.0  | 302.3  | 348.1  | 394.0  | 503.4  | 1288.2 | 4745.3 | 9308.3  | 10899.8 | 11448.0 |
| 35°   | 228.3  | 239.7  | 266.8  | 306.4  | 342.9  | 415.9  | 1013.1 | 4492.1 | 9821.1  | 11563.7 | 12017.1 |
| 37.5° | 193.9  | 208.4  | 234.5  | 269.9  | 295.0  | 365.8  | 819.2  | 4186.7 | 10341.1 | 12322.4 | 12651.8 |
| 40°   | 164.7  | 179.3  | 202.2  | 240.8  | 256.4  | 347.1  | 629.5  | 3814.6 | 10925.8 | 13170.8 | 13348.0 |
| 42.5° | 136.5  | 150.1  | 174.1  | 207.4  | 241.8  | 299.1  | 465.9  | 3389.4 | 11487.6 | 13896.2 | 13982.7 |
| 45°   | 110.5  | 124.0  | 149.0  | 182.4  | 258.5  | 248.1  | 360.6  | 2933.9 | 11941.0 | 14499.7 | 14527.8 |
| 47.5° | 87.5   | 100.1  | 126.1  | 172.0  | 240.8  | 198.0  | 257.4  | 2576.4 | 12321.4 | 14970.8 | 14896.8 |
| 50°   | 67.7   | 78.2   | 105.3  | 197.0  | 210.5  | 163.6  | 194.9  | 2457.6 | 12662.2 | 15262.6 | 15070.8 |
| 52.5° | 53.2   | 62.5   | 86.5   | 184.5  | 163.6  | 135.5  | 163.6  | 2569.1 | 13129.1 | 15504.4 | 15168.8 |
| 55°   | 42.7   | 52.1   | 67.7   | 105.3  | 111.5  | 114.6  | 139.7  | 2673.4 | 13934.8 | 16071.4 | 15747.2 |
| 57.5° | 35.4   | 44.8   | 55.2   | 74.0   | 84.4   | 96.9   | 124.0  | 2684.8 | 14884.3 | 17013.6 | 16707.1 |
| 59°   | 32.3   | 40.6   | 50.0   | 65.7   | 74.0   | 88.6   | 116.7  | 2622.3 | 15218.8 | 17356.5 | 17203.3 |
| 60°   | 30.2   | 38.6   | 46.9   | 60.5   | 68.8   | 83.4   | 112.6  | 2562.9 | 15233.4 | 17344.0 | 17414.8 |
| 62.5° | 26.1   | 34.4   | 41.7   | 51.1   | 58.4   | 70.9   | 101.1  | 2343.0 | 14616.4 | 16775.9 | 17287.7 |
| 65°   | 22.9   | 30.2   | 37.5   | 43.8   | 50.0   | 63.6   | 91.7   | 1941.7 | 13562.7 | 15859.8 | 16417.4 |
| 67.5° | 20.8   | 26.1   | 34.4   | 38.6   | 44.8   | 56.3   | 81.3   | 1384.1 | 12246.3 | 14739.4 | 15101.1 |
| 70°   | 18.8   | 25.0   | 31.3   | 35.4   | 40.6   | 49.0   | 69.8   | 795.2  | 10341.1 | 13098.9 | 13356.3 |
| 72.5° | 17.7   | 24.0   | 28.1   | 33.4   | 36.5   | 43.8   | 63.6   | 374.2  | 7571.9  | 10493.3 | 11165.5 |
| 75°   | 15.6   | 21.9   | 26.1   | 31.3   | 34.4   | 39.6   | 54.2   | 179.3  | 5036.1  | 7593.8  | 8357.7  |
| 77.5° | 9.4    | 17.7   | 24.0   | 28.1   | 30.2   | 34.4   | 44.8   | 103.2  | 3214.3  | 5256.0  | 6190.9  |
| 80°   | 0.0    | 6.3    | 17.7   | 24.0   | 26.1   | 29.2   | 34.4   | 81.3   | 1719.7  | 3002.7  | 3604.1  |
| 82.5° | 0.0    | 0.0    | 12.5   | 18.8   | 17.7   | 19.8   | 26.1   | 51.1   | 775.4   | 1962.5  | 2211.6  |
| 85°   | 0.0    | 0.0    | 4.2    | 14.6   | 12.5   | 9.4    | 17.7   | 17.7   | 169.9   | 993.3   | 1239.2  |
| 87.5° | 0.0    | 0.0    | 0.0    | 1.0    | 6.3    | 4.2    | 7.3    | 2.1    | 1.0     | 74.0    | 300.2   |
| 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°    | 7166.5  | 7166.5  | 7166.5  | 7166.5  | 7166.5  | 7166.5  | 7166.5  | 7166.5  | 7166.5  | 7166.5  |
| 2.5°  | 8101.4  | 8178.5  | 8308.8  | 8370.2  | 8340.0  | 8211.8  | 8058.6  | 7902.3  | 7810.6  | 7847.0  |
| 5°    | 8599.5  | 8996.6  | 9225.9  | 9302.0  | 9174.9  | 8887.2  | 8511.0  | 8014.8  | 7838.7  | 7790.8  |
| 7.5°  | 8599.5  | 9346.8  | 9820.0  | 9903.4  | 9619.9  | 9056.0  | 8350.4  | 7576.1  | 7318.6  | 7224.8  |
| 10°   | 8297.3  | 9314.5  | 9974.3  | 10106.6 | 9710.6  | 8867.4  | 7922.1  | 7038.3  | 6732.9  | 6636.0  |
| 12.5° | 7956.5  | 9051.9  | 9747.1  | 9929.4  | 9604.3  | 8679.8  | 7625.0  | 6674.5  | 6314.9  | 6230.5  |
| 15°   | 7747.0  | 8728.8  | 9304.1  | 9436.5  | 9298.9  | 8570.4  | 7554.2  | 6565.1  | 6141.9  | 6060.6  |
| 17.5° | 7822.0  | 8478.6  | 8686.0  | 8763.2  | 8855.9  | 8531.8  | 7747.0  | 6804.8  | 6269.1  | 6192.0  |
| 20°   | 8104.5  | 8215.0  | 8107.6  | 8204.5  | 8454.7  | 8569.3  | 8206.6  | 7384.3  | 6741.2  | 6638.0  |
| 22.5° | 8583.9  | 8078.4  | 7777.2  | 7815.8  | 8120.1  | 8693.3  | 8909.1  | 8211.8  | 7469.8  | 7340.5  |
| 25°   | 9142.6  | 8188.9  | 7593.8  | 7559.4  | 7872.1  | 8857.0  | 9551.1  | 9112.3  | 8331.7  | 8188.9  |
| 27.5° | 9845.0  | 8437.0  | 7556.3  | 7521.9  | 7785.6  | 9010.2  | 10084.7 | 10002.4 | 9239.5  | 8995.6  |
| 30°   | 10387.0 | 8680.8  | 7667.8  | 7588.6  | 7872.1  | 9116.5  | 10513.1 | 10758.0 | 9962.8  | 9801.2  |
| 32.5° | 10775.7 | 8968.5  | 7849.1  | 7734.5  | 8115.9  | 9299.9  | 10843.5 | 11450.1 | 10631.9 | 10387.0 |
| 35°   | 11071.7 | 9281.2  | 8142.0  | 7953.4  | 8451.5  | 9578.2  | 11153.0 | 12186.9 | 11343.8 | 11075.9 |
| 37.5° | 11349.0 | 9720.0  | 8599.5  | 8374.4  | 8977.9  | 10026.4 | 11480.3 | 13022.8 | 12140.0 | 11820.1 |
| 40°   | 11735.7 | 10217.1 | 9305.1  | 9105.0  | 9862.7  | 10637.1 | 11888.9 | 13894.1 | 13045.7 | 12643.4 |
| 42.5° | 12122.3 | 10750.7 | 10027.4 | 10081.6 | 10966.5 | 11379.2 | 12416.2 | 14815.5 | 13940.0 | 13510.6 |
| 45°   | 12475.6 | 11301.0 | 11056.1 | 11306.2 | 11991.0 | 12193.2 | 12940.5 | 15348.1 | 14653.9 | 14239.1 |
| 47.5° | 12790.4 | 11988.9 | 12078.5 | 12744.5 | 13156.2 | 12930.1 | 13332.4 | 15807.7 | 15185.5 | 14819.6 |
| 50°   | 13156.2 | 12879.0 | 13426.2 | 14368.4 | 14497.6 | 13597.1 | 13688.8 | 16351.7 | 15806.6 | 15512.7 |
| 52.5° | 13556.4 | 13817.0 | 14918.7 | 15749.3 | 15707.6 | 14321.5 | 14047.3 | 16961.5 | 16658.2 | 16382.0 |
| 55°   | 14010.9 | 14574.7 | 16232.9 | 17041.7 | 17006.3 | 15130.2 | 14641.4 | 17715.0 | 17725.4 | 17475.3 |
| 57.5° | 14685.2 | 15227.2 | 17125.1 | 18087.1 | 18146.5 | 16064.1 | 15648.2 | 18559.2 | 18690.5 | 18523.8 |
| 59°   | 15168.8 | 15650.3 | 17478.4 | 18523.8 | 18765.6 | 16786.4 | 16384.1 | 19049.1 | 18962.6 | 18810.4 |
| 60°   | 15527.3 | 15919.2 | 17653.5 | 18752.0 | 19125.1 | 17276.2 | 16927.1 | 19336.7 | 18994.9 | 18810.4 |
| 62.5° | 16414.3 | 16505.0 | 17969.3 | 19010.5 | 19538.9 | 18364.3 | 18455.0 | 19826.6 | 18770.8 | 18469.6 |
| 65°   | 16828.0 | 16874.9 | 17965.1 | 18547.7 | 19138.7 | 19211.7 | 19841.2 | 19841.2 | 18223.6 | 17760.9 |
| 67.5° | 16655.0 | 16428.9 | 17074.0 | 17013.6 | 17603.5 | 18708.3 | 20362.3 | 19113.7 | 17177.2 | 16579.0 |
| 70°   | 15248.0 | 14377.7 | 14091.1 | 14117.2 | 14568.5 | 16272.5 | 19330.5 | 16972.9 | 15196.9 | 14497.6 |
| 72.5° | 12687.2 | 10599.6 | 9891.9  | 10699.7 | 10817.4 | 12505.9 | 16473.7 | 12782.1 | 11207.2 | 10551.7 |
| 75°   | 10204.6 | 7471.8  | 6321.2  | 7173.8  | 7373.9  | 9151.9  | 12743.5 | 7960.6  | 6546.3  | 6035.6  |
| 77.5° | 7331.1  | 5363.4  | 4535.8  | 4476.4  | 4734.9  | 5804.2  | 9042.5  | 4006.4  | 3341.4  | 3118.4  |
| 80°   | 4164.8  | 3530.1  | 3801.1  | 3586.4  | 3716.6  | 3629.1  | 4296.1  | 1757.2  | 1439.3  | 1345.5  |
| 82.5° | 2513.9  | 2086.6  | 2259.6  | 1881.2  | 2380.5  | 2073.0  | 1655.1  | 562.8   | 488.8   | 464.8   |
| 85°   | 1635.3  | 1140.2  | 594.1   | 398.1   | 820.2   | 1324.7  | 370.0   | 153.2   | 117.8   | 93.8    |
| 87.5° | 563.9   | 290.8   | 29.2    | 12.5    | 87.5    | 247.0   | 13.5    | 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)