

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: P451162

Luminaire Tested: **GLAN-SA2A-730-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451162  
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-SA2A-730-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 615mA 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: 7219 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63  
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

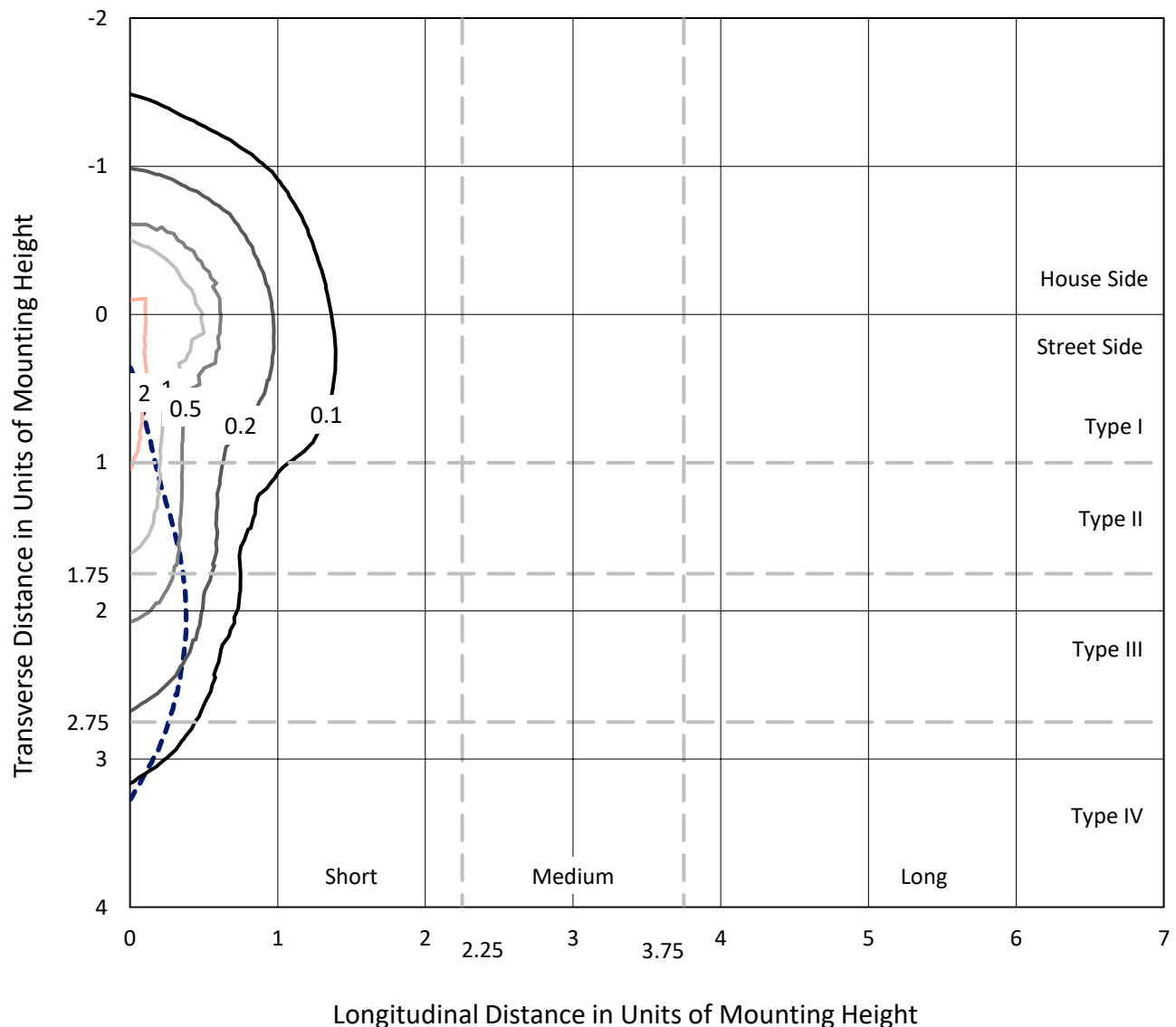


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd



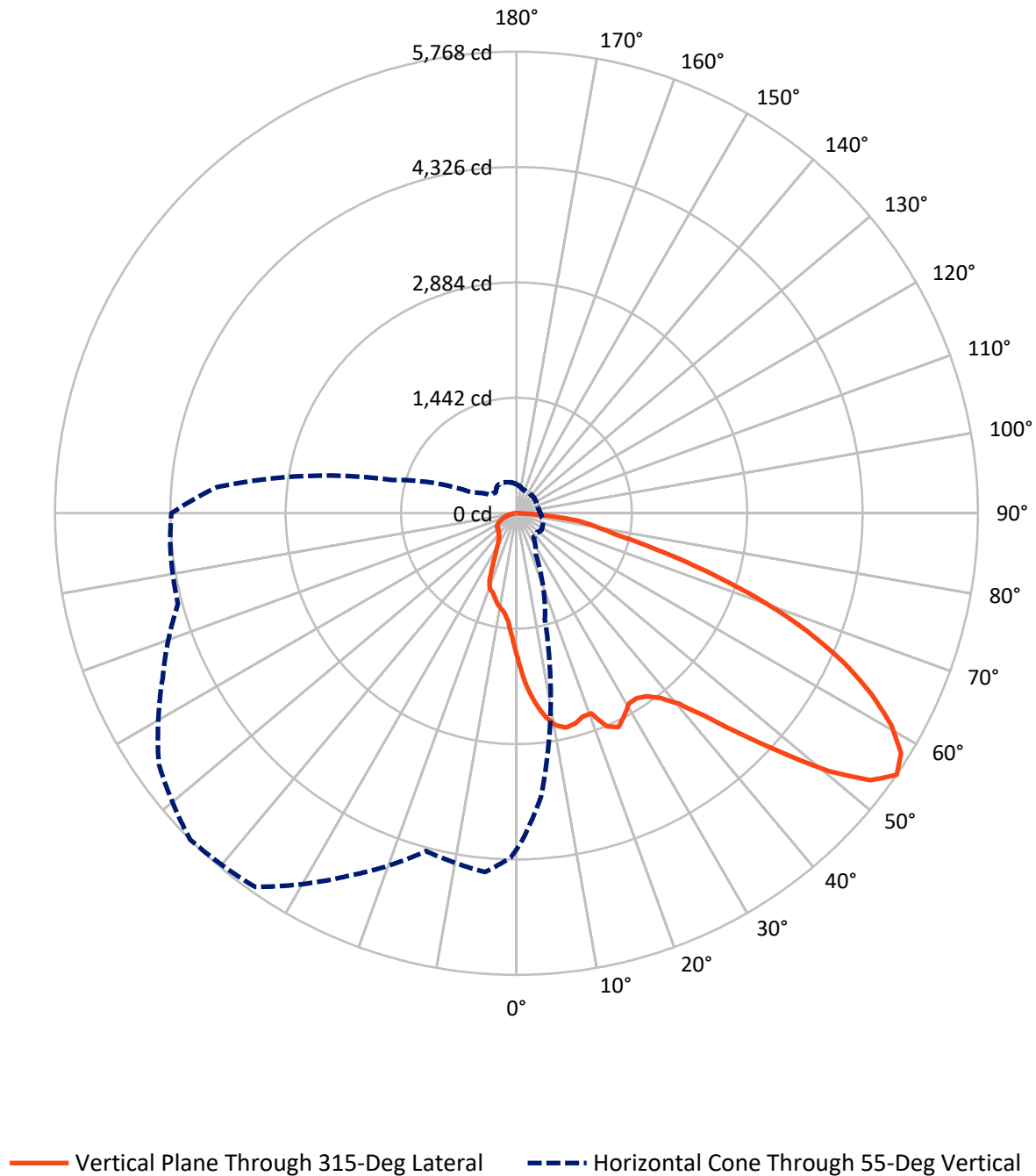
Based on 25 foot mounting height. Maximum calculated value = 3.1 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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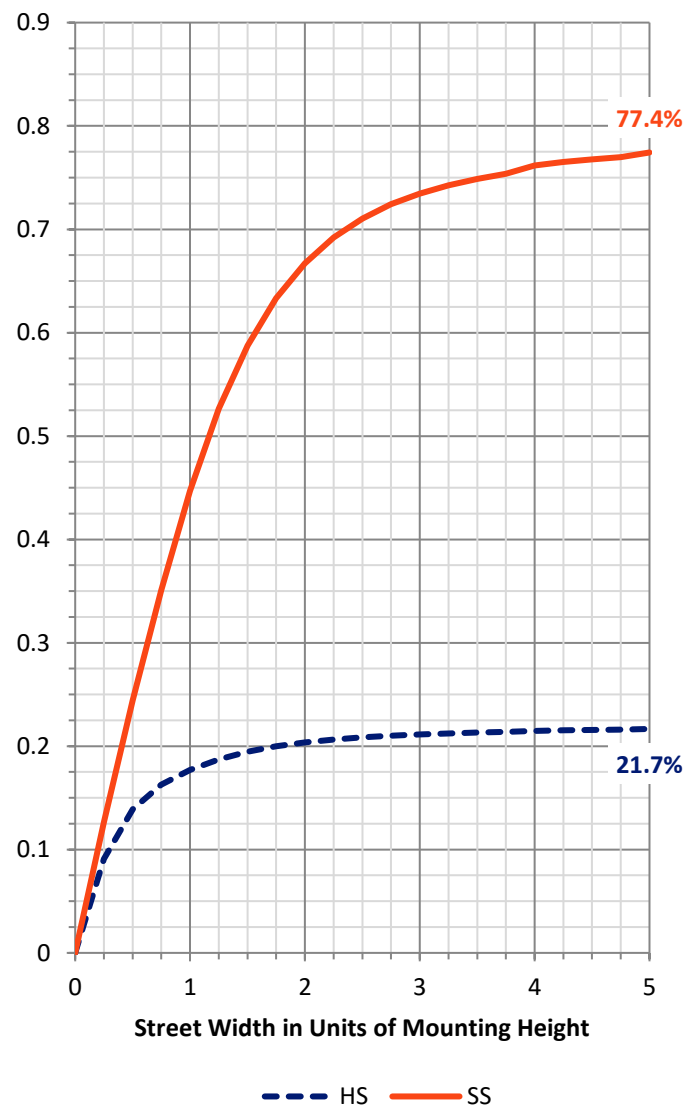
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1579.1   | 0.0    | 1579.1 |
|                    | % Fixture | 21.9     | 0.0    | 21.9   |
| <b>Street Side</b> | Lumens    | 5639.9   | 0.0    | 5639.9 |
|                    | % Fixture | 78.1     | 0.0    | 78.1   |
| <b>Total</b>       | Lumens    | 7219.0   | 0.0    | 7219.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 153.5  | 2.1       |
| 10°-20°   | 407.4  | 5.6       |
| 20°-30°   | 703.7  | 9.7       |
| 30°-40°   | 817.9  | 11.3      |
| 40°-50°   | 1141.1 | 15.8      |
| 50°-60°   | 1548.3 | 21.4      |
| 60°-70°   | 1473.0 | 20.4      |
| 70°-80°   | 795.8  | 11.0      |
| 80°-90°   | 178.3  | 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°    | 7219.0 | 100.0     |
| 0°-180°   | 7219.0 | 100.0     |

**Coefficient of Utilization**



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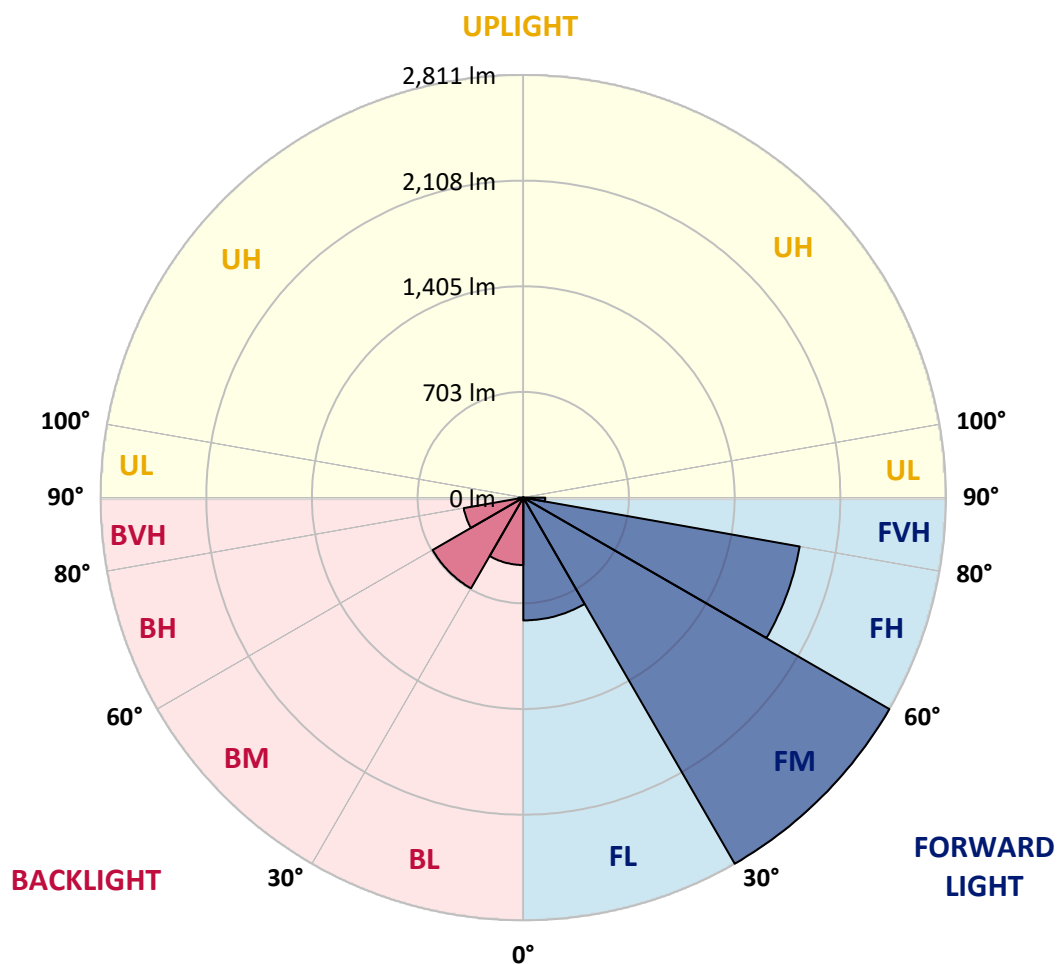
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 816.5  | 11.3      |                         |      |         |
| FM   | (30°-60°)   | 2810.9 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 1866.7 | 25.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 145.8  | 2.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 448.2  | 6.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 696.3  | 9.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 402.1  | 5.6       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 32.6   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 |
| 2.5°  | 2012.7 | 2005.0 | 1983.6 | 1927.4 | 1870.7 | 1813.1 | 1768.8 | 1713.6 | 1656.0 | 1625.0 | 1585.5 |
| 5°    | 2040.3 | 2031.7 | 1981.2 | 1854.6 | 1739.8 | 1619.3 | 1523.1 | 1438.8 | 1404.5 | 1354.0 | 1313.5 |
| 7.5°  | 1975.5 | 1971.7 | 1896.0 | 1714.1 | 1556.9 | 1399.2 | 1290.2 | 1222.6 | 1161.1 | 1138.3 | 1143.0 |
| 10°   | 1916.5 | 1901.2 | 1806.4 | 1568.8 | 1385.4 | 1257.3 | 1179.2 | 1113.0 | 1069.7 | 1058.2 | 1060.6 |
| 12.5° | 1867.4 | 1846.9 | 1735.0 | 1471.2 | 1310.7 | 1208.3 | 1108.7 | 1039.7 | 1000.1 | 1011.1 | 1048.2 |
| 15°   | 1857.4 | 1829.8 | 1705.0 | 1437.8 | 1269.7 | 1137.8 | 1028.7 | 949.2  | 919.7  | 943.5  | 1003.0 |
| 17.5° | 1922.2 | 1887.4 | 1756.4 | 1448.8 | 1230.7 | 1065.9 | 932.0  | 841.1  | 816.3  | 854.4  | 932.0  |
| 20°   | 2130.3 | 2078.9 | 1916.9 | 1512.1 | 1226.8 | 1030.1 | 875.8  | 784.4  | 794.9  | 867.3  | 948.2  |
| 22.5° | 2515.1 | 2438.0 | 2197.9 | 1604.5 | 1246.8 | 1021.1 | 864.4  | 816.8  | 874.4  | 935.8  | 989.2  |
| 25°   | 2591.3 | 2530.8 | 2248.4 | 1625.5 | 1242.6 | 1014.9 | 896.8  | 920.6  | 984.9  | 1015.4 | 996.8  |
| 27.5° | 2634.2 | 2565.1 | 2245.1 | 1521.6 | 1111.1 | 920.6  | 857.3  | 896.8  | 913.0  | 883.5  | 833.0  |
| 30°   | 2734.2 | 2662.3 | 2301.8 | 1412.6 | 914.9  | 683.0  | 598.7  | 582.5  | 593.4  | 599.1  | 581.0  |
| 32.5° | 2871.8 | 2800.9 | 2408.4 | 1341.1 | 791.1  | 564.8  | 482.0  | 459.1  | 453.9  | 447.7  | 440.5  |
| 35°   | 3050.0 | 2940.9 | 2513.2 | 1295.4 | 740.1  | 522.5  | 446.3  | 428.6  | 421.5  | 412.9  | 405.3  |
| 37.5° | 3230.9 | 3116.6 | 2645.6 | 1247.3 | 706.3  | 492.9  | 422.4  | 414.3  | 402.0  | 392.9  | 382.0  |
| 40°   | 3423.3 | 3295.2 | 2766.1 | 1205.4 | 673.4  | 473.9  | 405.3  | 404.3  | 388.2  | 377.7  | 364.8  |
| 42.5° | 3590.0 | 3458.1 | 2873.7 | 1179.7 | 648.2  | 453.9  | 394.8  | 397.7  | 381.0  | 365.3  | 348.6  |
| 45°   | 3722.4 | 3592.9 | 2973.3 | 1179.7 | 627.7  | 433.9  | 392.9  | 391.0  | 374.3  | 354.8  | 335.8  |
| 47.5° | 3838.6 | 3704.8 | 3070.4 | 1209.7 | 614.8  | 417.2  | 382.4  | 385.8  | 368.6  | 343.9  | 325.3  |
| 50°   | 3928.7 | 3810.5 | 3201.4 | 1256.4 | 602.0  | 403.9  | 369.1  | 387.2  | 363.9  | 338.1  | 316.7  |
| 52.5° | 4043.4 | 3937.7 | 3359.1 | 1320.2 | 591.0  | 389.1  | 357.2  | 387.2  | 363.4  | 338.6  | 315.3  |
| 55°   | 4202.5 | 4091.1 | 3549.1 | 1373.1 | 573.4  | 375.3  | 346.7  | 376.2  | 362.0  | 336.2  | 311.5  |
| 57.5° | 4313.9 | 4230.6 | 3683.4 | 1408.3 | 548.2  | 357.7  | 337.2  | 365.8  | 355.8  | 327.2  | 300.0  |
| 58°   | 4319.2 | 4237.7 | 3702.9 | 1416.4 | 542.0  | 354.3  | 334.8  | 361.0  | 352.9  | 323.4  | 296.2  |
| 60°   | 4259.2 | 4189.2 | 3706.7 | 1405.0 | 506.7  | 337.7  | 322.4  | 341.5  | 337.7  | 301.0  | 275.8  |
| 62.5° | 4041.1 | 3966.3 | 3552.9 | 1312.1 | 460.1  | 317.2  | 303.4  | 315.3  | 306.7  | 269.6  | 246.2  |
| 65°   | 3731.0 | 3593.4 | 3236.7 | 1166.4 | 426.7  | 295.3  | 277.7  | 278.6  | 269.6  | 242.9  | 222.4  |
| 67.5° | 3318.1 | 3164.3 | 2740.4 | 983.0  | 401.5  | 271.0  | 247.2  | 244.8  | 233.8  | 216.7  | 200.0  |
| 70°   | 2809.9 | 2704.7 | 2227.0 | 799.6  | 373.4  | 244.3  | 212.9  | 211.5  | 204.8  | 191.9  | 177.2  |
| 72.5° | 2277.5 | 2143.6 | 1798.4 | 640.1  | 339.1  | 218.6  | 181.0  | 183.8  | 175.3  | 166.2  | 152.9  |
| 75°   | 1680.7 | 1593.1 | 1390.2 | 513.4  | 292.9  | 190.5  | 151.0  | 151.9  | 148.1  | 138.6  | 128.1  |
| 77.5° | 1106.8 | 1080.6 | 994.4  | 337.2  | 225.3  | 151.5  | 123.4  | 124.3  | 121.4  | 112.9  | 101.9  |
| 80°   | 744.9  | 727.2  | 673.9  | 217.2  | 150.5  | 109.5  | 95.3   | 96.2   | 95.7   | 86.7   | 71.9   |
| 82.5° | 459.1  | 451.5  | 434.3  | 146.7  | 104.3  | 78.6   | 62.9   | 65.7   | 71.0   | 61.0   | 49.1   |
| 85°   | 216.7  | 217.2  | 262.4  | 80.0   | 61.4   | 50.5   | 34.3   | 36.7   | 36.7   | 36.7   | 27.6   |
| 87.5° | 28.1   | 29.5   | 36.2   | 33.8   | 22.4   | 19.1   | 12.4   | 10.5   | 9.0    | 11.9   | 8.6    |
| 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°    | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 |
| 2.5°  | 1571.7 | 1562.1 | 1541.6 | 1536.9 | 1534.0 | 1542.1 | 1520.7 | 1526.4 | 1516.9 | 1543.6 | 1539.3 |
| 5°    | 1315.9 | 1316.9 | 1333.5 | 1344.5 | 1348.3 | 1344.5 | 1330.2 | 1305.4 | 1286.4 | 1278.8 | 1280.7 |
| 7.5°  | 1134.0 | 1150.6 | 1179.2 | 1211.1 | 1240.2 | 1248.7 | 1240.7 | 1193.5 | 1142.1 | 1109.7 | 1099.2 |
| 10°   | 1073.5 | 1095.9 | 1128.7 | 1154.0 | 1179.7 | 1200.2 | 1204.5 | 1167.8 | 1106.8 | 1030.1 | 1000.1 |
| 12.5° | 1076.8 | 1107.3 | 1138.7 | 1146.8 | 1144.4 | 1152.5 | 1148.7 | 1142.5 | 1102.5 | 1004.9 | 954.9  |
| 15°   | 1045.4 | 1081.6 | 1103.5 | 1099.2 | 1091.6 | 1084.4 | 1074.4 | 1058.7 | 1044.4 | 975.9  | 920.6  |
| 17.5° | 973.0  | 1010.1 | 1028.2 | 1029.7 | 1029.7 | 1027.8 | 1003.5 | 997.8  | 995.9  | 962.5  | 928.7  |
| 20°   | 986.3  | 1006.8 | 998.7  | 985.4  | 989.2  | 1002.0 | 987.8  | 984.9  | 995.9  | 1010.6 | 1004.4 |
| 22.5° | 994.0  | 986.8  | 925.8  | 866.8  | 853.5  | 893.5  | 901.6  | 933.5  | 977.8  | 1031.1 | 1065.9 |
| 25°   | 946.8  | 889.2  | 780.1  | 713.4  | 675.8  | 713.0  | 761.5  | 820.6  | 886.8  | 955.4  | 995.9  |
| 27.5° | 791.5  | 747.7  | 669.6  | 609.6  | 576.7  | 582.5  | 623.9  | 677.7  | 739.2  | 785.4  | 814.9  |
| 30°   | 596.3  | 576.7  | 536.3  | 515.8  | 495.8  | 491.0  | 508.6  | 529.1  | 556.3  | 562.0  | 569.6  |
| 32.5° | 439.1  | 436.3  | 438.6  | 432.0  | 428.2  | 427.7  | 422.4  | 427.2  | 430.1  | 433.4  | 426.7  |
| 35°   | 397.2  | 393.4  | 386.7  | 384.8  | 382.4  | 383.4  | 381.0  | 378.6  | 380.5  | 383.4  | 385.3  |
| 37.5° | 375.8  | 370.1  | 360.5  | 357.2  | 357.2  | 358.6  | 354.8  | 353.9  | 357.2  | 366.2  | 371.0  |
| 40°   | 359.1  | 352.4  | 341.5  | 337.2  | 340.0  | 343.9  | 338.6  | 336.7  | 344.8  | 354.3  | 362.0  |
| 42.5° | 343.4  | 338.1  | 327.7  | 322.9  | 325.3  | 332.4  | 324.8  | 323.4  | 333.9  | 344.3  | 353.4  |
| 45°   | 330.0  | 324.8  | 315.3  | 312.9  | 313.9  | 320.5  | 315.3  | 315.3  | 325.3  | 336.7  | 344.8  |
| 47.5° | 319.6  | 312.9  | 306.7  | 304.8  | 305.8  | 309.6  | 308.6  | 308.6  | 318.1  | 330.0  | 338.1  |
| 50°   | 309.1  | 303.4  | 295.3  | 296.2  | 298.6  | 303.9  | 303.4  | 304.8  | 314.3  | 329.1  | 337.7  |
| 52.5° | 304.3  | 295.8  | 286.7  | 287.7  | 294.8  | 301.0  | 299.1  | 300.5  | 311.5  | 339.1  | 351.5  |
| 55°   | 299.1  | 287.7  | 277.2  | 278.6  | 286.7  | 295.8  | 293.4  | 295.3  | 308.1  | 345.8  | 362.9  |
| 57.5° | 289.1  | 275.8  | 264.3  | 265.3  | 277.2  | 286.7  | 282.9  | 285.3  | 300.5  | 338.6  | 356.7  |
| 58°   | 284.8  | 273.4  | 262.4  | 262.9  | 274.3  | 284.8  | 280.5  | 282.4  | 298.1  | 336.7  | 353.9  |
| 60°   | 266.7  | 260.0  | 250.5  | 251.0  | 261.9  | 271.0  | 268.6  | 270.5  | 285.8  | 322.9  | 335.8  |
| 62.5° | 241.9  | 238.1  | 235.7  | 235.7  | 242.4  | 251.0  | 253.4  | 255.8  | 269.6  | 291.9  | 303.4  |
| 65°   | 215.3  | 215.3  | 215.7  | 215.7  | 220.0  | 231.0  | 232.4  | 238.6  | 251.5  | 262.4  | 271.0  |
| 67.5° | 197.2  | 196.2  | 197.2  | 194.8  | 196.7  | 203.4  | 210.5  | 216.2  | 229.6  | 237.2  | 240.0  |
| 70°   | 173.8  | 173.4  | 173.8  | 170.5  | 172.9  | 178.6  | 183.4  | 192.9  | 206.7  | 212.4  | 213.8  |
| 72.5° | 151.0  | 151.0  | 151.9  | 149.5  | 149.5  | 155.7  | 159.1  | 169.5  | 182.4  | 185.7  | 186.2  |
| 75°   | 127.2  | 128.6  | 128.6  | 125.3  | 126.2  | 130.0  | 134.3  | 142.9  | 154.8  | 157.2  | 157.2  |
| 77.5° | 101.0  | 106.2  | 106.2  | 102.9  | 104.3  | 104.8  | 110.5  | 114.8  | 123.8  | 124.8  | 121.0  |
| 80°   | 73.3   | 78.6   | 82.9   | 80.0   | 82.4   | 79.5   | 82.9   | 85.7   | 94.8   | 90.5   | 84.3   |
| 82.5° | 52.4   | 56.2   | 59.5   | 60.0   | 57.6   | 52.4   | 56.7   | 57.2   | 61.4   | 55.7   | 52.4   |
| 85°   | 29.1   | 32.4   | 36.7   | 34.8   | 31.0   | 27.6   | 29.1   | 30.0   | 29.5   | 28.1   | 26.2   |
| 87.5° | 7.6    | 8.1    | 9.0    | 6.7    | 6.2    | 5.2    | 7.1    | 7.1    | 8.1    | 8.6    | 8.1    |
| 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°    | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 |
| 2.5°  | 1542.6 | 1563.6 | 1608.8 | 1643.1 | 1685.0 | 1736.0 | 1796.0 | 1856.5 | 1921.7 | 1942.2 | 1970.8 |
| 5°    | 1276.4 | 1328.8 | 1350.7 | 1413.1 | 1475.0 | 1567.8 | 1666.9 | 1781.7 | 1907.4 | 1967.9 | 2026.0 |
| 7.5°  | 1090.6 | 1118.7 | 1141.6 | 1187.3 | 1261.6 | 1374.5 | 1498.8 | 1642.1 | 1820.3 | 1908.4 | 1993.6 |
| 10°   | 990.6  | 993.5  | 1021.6 | 1078.2 | 1143.0 | 1242.6 | 1360.2 | 1520.7 | 1719.3 | 1826.5 | 1926.5 |
| 12.5° | 924.4  | 912.0  | 942.5  | 1001.6 | 1074.9 | 1166.8 | 1274.9 | 1427.8 | 1646.4 | 1756.4 | 1877.4 |
| 15°   | 866.3  | 846.8  | 869.6  | 930.1  | 1002.5 | 1110.6 | 1226.8 | 1388.8 | 1617.8 | 1746.0 | 1880.3 |
| 17.5° | 867.7  | 813.9  | 822.0  | 873.0  | 944.9  | 1054.9 | 1195.9 | 1387.3 | 1661.2 | 1808.8 | 1967.9 |
| 20°   | 974.9  | 888.7  | 852.0  | 861.6  | 931.1  | 1051.1 | 1210.2 | 1454.0 | 1803.6 | 2018.9 | 2188.9 |
| 22.5° | 1080.2 | 1028.2 | 969.2  | 949.7  | 987.8  | 1113.5 | 1301.1 | 1611.7 | 2113.2 | 2437.5 | 2744.7 |
| 25°   | 1043.5 | 1087.8 | 1073.0 | 1045.4 | 1054.0 | 1158.3 | 1363.1 | 1741.2 | 2353.7 | 2719.0 | 3007.6 |
| 27.5° | 834.9  | 915.4  | 931.6  | 931.1  | 934.4  | 1020.1 | 1225.9 | 1654.0 | 2383.7 | 2772.8 | 3048.5 |
| 30°   | 586.8  | 593.9  | 602.5  | 619.1  | 634.4  | 711.1  | 959.2  | 1452.1 | 2370.3 | 2797.1 | 3073.3 |
| 32.5° | 423.4  | 432.9  | 444.8  | 467.7  | 503.9  | 601.5  | 839.2  | 1387.8 | 2440.8 | 2897.6 | 3145.7 |
| 35°   | 387.2  | 398.2  | 409.6  | 435.8  | 470.1  | 560.6  | 791.5  | 1361.1 | 2556.6 | 3060.4 | 3275.7 |
| 37.5° | 375.8  | 388.2  | 398.2  | 417.2  | 444.8  | 531.0  | 748.2  | 1343.0 | 2675.1 | 3232.8 | 3450.0 |
| 40°   | 367.7  | 382.0  | 390.1  | 405.3  | 424.3  | 503.9  | 709.6  | 1328.8 | 2789.9 | 3390.5 | 3590.0 |
| 42.5° | 360.5  | 375.3  | 385.8  | 396.7  | 412.4  | 479.6  | 675.3  | 1314.5 | 2889.5 | 3543.4 | 3729.6 |
| 45°   | 352.0  | 370.5  | 383.9  | 392.4  | 406.2  | 459.1  | 649.1  | 1303.0 | 3002.8 | 3679.1 | 3870.6 |
| 47.5° | 344.8  | 365.3  | 382.0  | 392.0  | 397.2  | 444.8  | 628.2  | 1318.8 | 3139.0 | 3821.0 | 4001.5 |
| 50°   | 345.3  | 364.8  | 385.8  | 401.5  | 387.7  | 432.9  | 615.3  | 1381.1 | 3316.2 | 3989.6 | 4104.9 |
| 52.5° | 360.5  | 384.3  | 401.0  | 404.8  | 374.3  | 418.6  | 608.7  | 1490.2 | 3525.7 | 4138.7 | 4209.2 |
| 55°   | 377.7  | 402.4  | 420.5  | 418.2  | 367.2  | 400.5  | 607.2  | 1606.4 | 3755.3 | 4312.5 | 4344.9 |
| 57.5° | 371.5  | 407.7  | 435.3  | 422.9  | 367.7  | 382.9  | 601.0  | 1700.2 | 3947.2 | 4442.5 | 4479.2 |
| 58°   | 369.6  | 405.8  | 437.2  | 422.0  | 366.2  | 377.7  | 599.6  | 1708.3 | 3973.9 | 4451.6 | 4498.3 |
| 60°   | 351.0  | 389.1  | 435.8  | 414.8  | 358.1  | 363.4  | 583.9  | 1734.5 | 3966.8 | 4404.9 | 4509.7 |
| 62.5° | 317.2  | 348.6  | 402.9  | 380.1  | 333.4  | 344.3  | 548.6  | 1702.1 | 3773.4 | 4180.1 | 4342.5 |
| 65°   | 279.1  | 302.4  | 338.6  | 334.3  | 298.1  | 324.8  | 500.5  | 1574.0 | 3386.2 | 3815.3 | 3986.3 |
| 67.5° | 250.5  | 269.6  | 292.4  | 286.2  | 268.1  | 298.6  | 448.6  | 1357.3 | 2951.8 | 3377.1 | 3592.4 |
| 70°   | 221.5  | 236.2  | 247.7  | 243.4  | 237.7  | 272.9  | 402.4  | 1101.6 | 2535.6 | 2960.9 | 3169.5 |
| 72.5° | 191.9  | 205.7  | 215.3  | 209.1  | 205.7  | 245.7  | 364.8  | 854.9  | 2002.7 | 2442.7 | 2710.9 |
| 75°   | 160.5  | 174.3  | 181.0  | 173.8  | 171.9  | 216.7  | 309.1  | 638.7  | 1502.6 | 1883.1 | 2114.6 |
| 77.5° | 124.3  | 139.1  | 147.6  | 145.3  | 146.2  | 178.1  | 249.6  | 437.2  | 1074.4 | 1283.5 | 1527.4 |
| 80°   | 87.2   | 103.3  | 109.1  | 106.7  | 113.3  | 135.7  | 176.2  | 277.7  | 741.1  | 833.0  | 1004.9 |
| 82.5° | 53.8   | 69.1   | 70.0   | 72.4   | 77.2   | 100.5  | 132.9  | 169.1  | 465.3  | 481.0  | 605.8  |
| 85°   | 27.1   | 32.9   | 35.2   | 39.1   | 43.3   | 61.4   | 75.7   | 104.8  | 299.6  | 226.7  | 338.6  |
| 87.5° | 9.0    | 9.5    | 11.4   | 14.3   | 17.6   | 25.2   | 32.4   | 42.9   | 74.3   | 41.0   | 104.8  |
| 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°    | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 | 1811.7 |
| 2.5°  | 2028.4 | 2068.9 | 2098.4 | 2125.5 | 2099.3 | 2097.0 | 2071.2 | 2029.8 | 2012.7 | 2012.7 |
| 5°    | 2147.9 | 2242.7 | 2319.4 | 2368.4 | 2347.5 | 2297.0 | 2213.6 | 2107.4 | 2050.3 | 2040.3 |
| 7.5°  | 2180.8 | 2368.0 | 2510.4 | 2560.8 | 2525.6 | 2414.2 | 2254.6 | 2075.5 | 1993.6 | 1975.5 |
| 10°   | 2160.8 | 2404.2 | 2613.2 | 2693.2 | 2644.2 | 2475.6 | 2257.9 | 2038.4 | 1937.4 | 1916.5 |
| 12.5° | 2139.8 | 2408.9 | 2632.3 | 2748.0 | 2716.1 | 2525.1 | 2282.2 | 2014.1 | 1897.4 | 1867.4 |
| 15°   | 2155.1 | 2410.8 | 2608.9 | 2728.5 | 2749.0 | 2584.7 | 2322.2 | 2031.7 | 1889.3 | 1857.4 |
| 17.5° | 2251.3 | 2447.0 | 2575.6 | 2672.3 | 2744.2 | 2665.6 | 2436.1 | 2116.0 | 1961.7 | 1922.2 |
| 20°   | 2452.3 | 2533.7 | 2594.7 | 2669.4 | 2785.2 | 2830.9 | 2669.0 | 2347.5 | 2165.1 | 2130.3 |
| 22.5° | 3034.2 | 3019.5 | 2894.7 | 2893.3 | 3060.9 | 3244.3 | 3233.3 | 2818.0 | 2543.7 | 2515.1 |
| 25°   | 3252.4 | 3183.8 | 3003.3 | 2959.5 | 3033.3 | 3316.2 | 3275.2 | 2914.2 | 2660.9 | 2591.3 |
| 27.5° | 3167.1 | 2997.1 | 2878.5 | 2868.5 | 2844.2 | 3111.4 | 3210.0 | 2953.3 | 2701.8 | 2634.2 |
| 30°   | 3161.9 | 2911.8 | 2742.3 | 2762.3 | 2785.6 | 3040.9 | 3246.2 | 3075.7 | 2806.6 | 2734.2 |
| 32.5° | 3174.7 | 2923.8 | 2752.3 | 2756.1 | 2825.6 | 3051.4 | 3286.2 | 3209.0 | 2944.2 | 2871.8 |
| 35°   | 3226.7 | 2991.4 | 2816.1 | 2807.1 | 2915.7 | 3120.0 | 3354.3 | 3418.6 | 3132.4 | 3050.0 |
| 37.5° | 3310.5 | 3126.2 | 2932.8 | 2930.4 | 3088.1 | 3243.8 | 3439.1 | 3630.0 | 3319.5 | 3230.9 |
| 40°   | 3433.8 | 3283.8 | 3140.4 | 3127.6 | 3322.4 | 3445.3 | 3549.1 | 3855.3 | 3537.2 | 3423.3 |
| 42.5° | 3582.9 | 3472.9 | 3414.3 | 3465.3 | 3652.4 | 3671.5 | 3720.5 | 4063.4 | 3722.4 | 3590.0 |
| 45°   | 3721.0 | 3715.8 | 3797.2 | 3932.5 | 4041.5 | 3927.2 | 3899.6 | 4203.0 | 3866.3 | 3722.4 |
| 47.5° | 3885.3 | 4027.2 | 4273.0 | 4471.1 | 4585.4 | 4224.9 | 4052.5 | 4293.9 | 3971.0 | 3838.6 |
| 50°   | 4052.0 | 4400.2 | 4792.6 | 5068.8 | 5093.1 | 4548.3 | 4157.7 | 4379.7 | 4066.3 | 3928.7 |
| 52.5° | 4227.3 | 4697.8 | 5220.3 | 5541.3 | 5494.1 | 4829.7 | 4259.7 | 4437.8 | 4164.4 | 4043.4 |
| 55°   | 4379.7 | 4880.2 | 5459.4 | 5767.5 | 5698.4 | 5001.2 | 4369.7 | 4500.6 | 4304.4 | 4202.5 |
| 57.5° | 4464.9 | 4895.5 | 5399.8 | 5668.9 | 5594.1 | 4967.9 | 4420.2 | 4547.3 | 4394.0 | 4313.9 |
| 58°   | 4477.3 | 4875.0 | 5347.0 | 5611.8 | 5535.6 | 4939.8 | 4419.7 | 4545.4 | 4399.7 | 4319.2 |
| 60°   | 4466.4 | 4742.1 | 5150.3 | 5386.0 | 5306.0 | 4763.5 | 4401.6 | 4509.7 | 4327.3 | 4259.2 |
| 62.5° | 4364.9 | 4511.6 | 4810.7 | 4982.1 | 4959.3 | 4488.3 | 4327.3 | 4374.9 | 4106.8 | 4041.1 |
| 65°   | 4231.6 | 4197.3 | 4375.9 | 4497.3 | 4514.5 | 4282.0 | 4253.5 | 4083.4 | 3823.9 | 3731.0 |
| 67.5° | 4069.6 | 3841.0 | 3840.5 | 3909.6 | 3938.2 | 3964.9 | 4099.6 | 3766.7 | 3416.2 | 3318.1 |
| 70°   | 3794.8 | 3291.9 | 3140.4 | 3221.9 | 3198.1 | 3423.3 | 3824.8 | 3321.9 | 2924.7 | 2809.9 |
| 72.5° | 3290.9 | 2612.3 | 2369.9 | 2474.6 | 2414.6 | 2684.7 | 3346.7 | 2733.7 | 2418.4 | 2277.5 |
| 75°   | 2667.5 | 1954.1 | 1704.1 | 1800.3 | 1763.1 | 2036.5 | 2784.7 | 1985.5 | 1734.5 | 1680.7 |
| 77.5° | 2071.2 | 1415.9 | 1270.7 | 1257.3 | 1284.9 | 1515.5 | 2042.7 | 1340.7 | 1143.5 | 1106.8 |
| 80°   | 1330.7 | 1013.5 | 1022.1 | 1004.9 | 1019.2 | 955.4  | 1240.2 | 855.4  | 774.4  | 744.9  |
| 82.5° | 875.8  | 706.3  | 842.0  | 777.3  | 738.2  | 642.5  | 813.4  | 560.1  | 475.3  | 459.1  |
| 85°   | 596.8  | 520.1  | 473.4  | 362.0  | 426.3  | 494.8  | 610.1  | 301.5  | 239.1  | 216.7  |
| 87.5° | 269.6  | 181.0  | 132.9  | 81.9   | 129.5  | 149.5  | 296.2  | 35.2   | 27.1   | 28.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)