

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: McGRAW-EDISON

Report Number: P451307

Luminaire Tested: **GALN-SA2A-830-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451307  
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: MCGRAW-EDISON  
Catalog Number: GALN-SA2A-830-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 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: 6299 lumens  
Efficiency: N/A  
Efficacy: 100.0 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



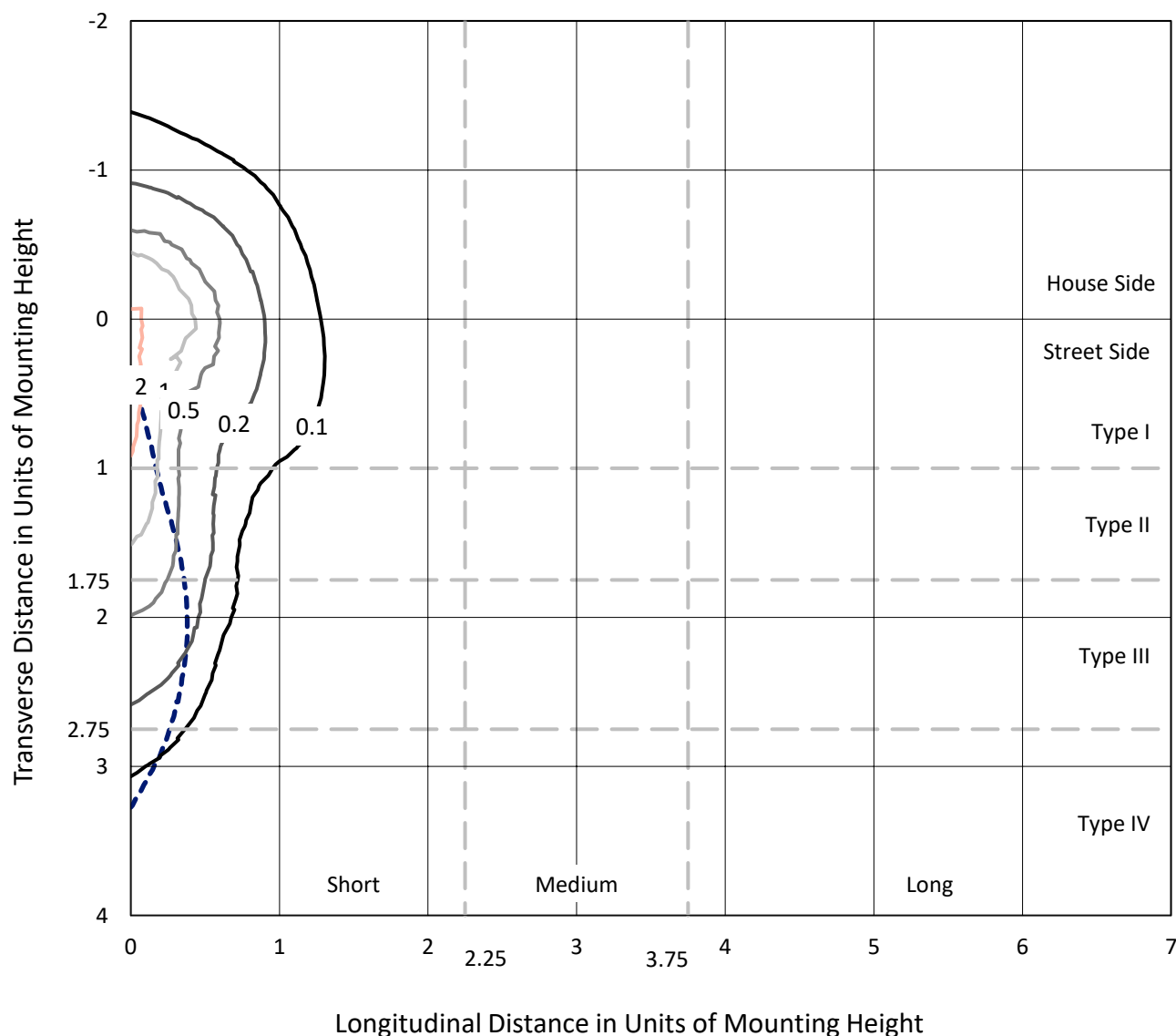
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

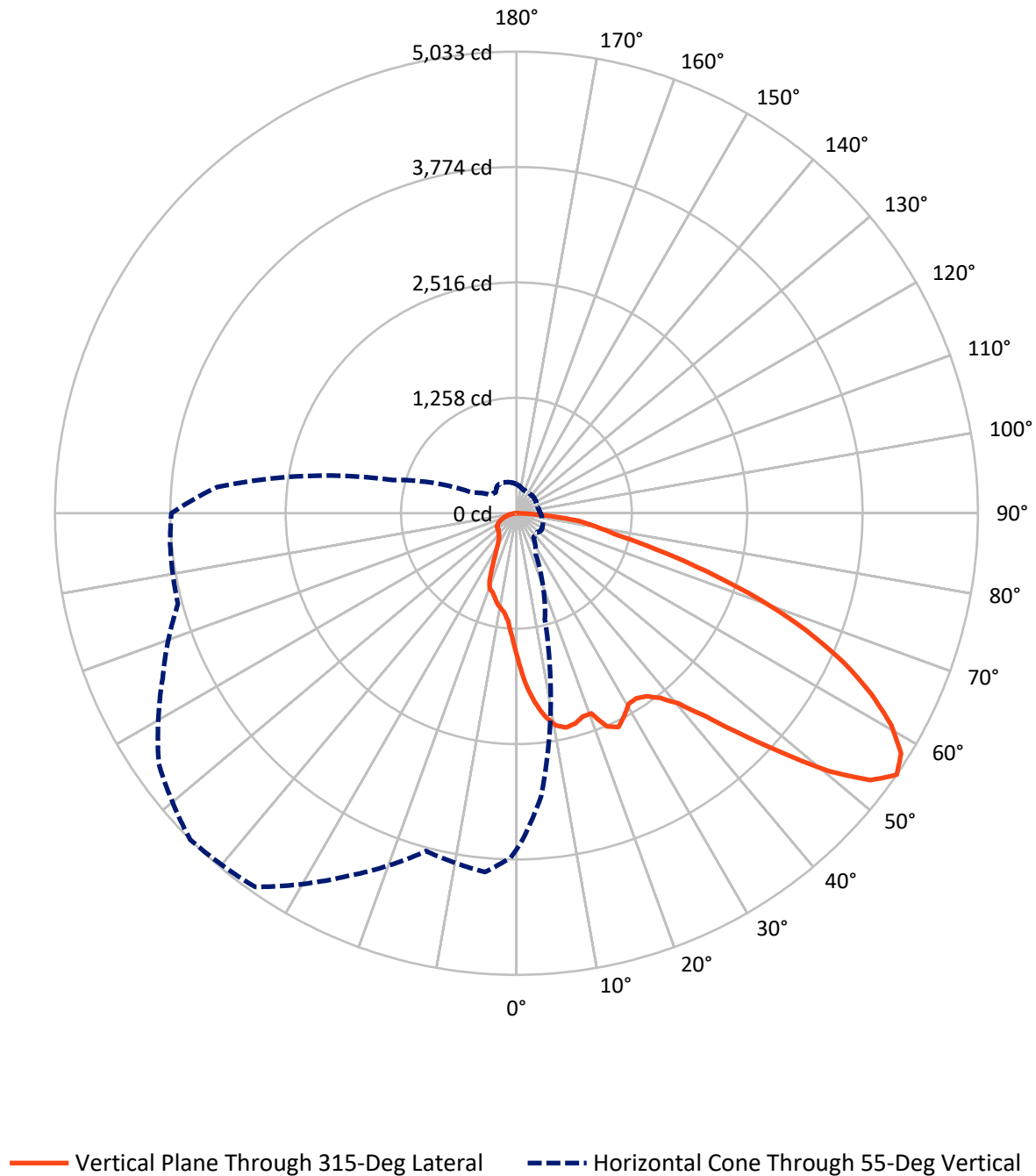


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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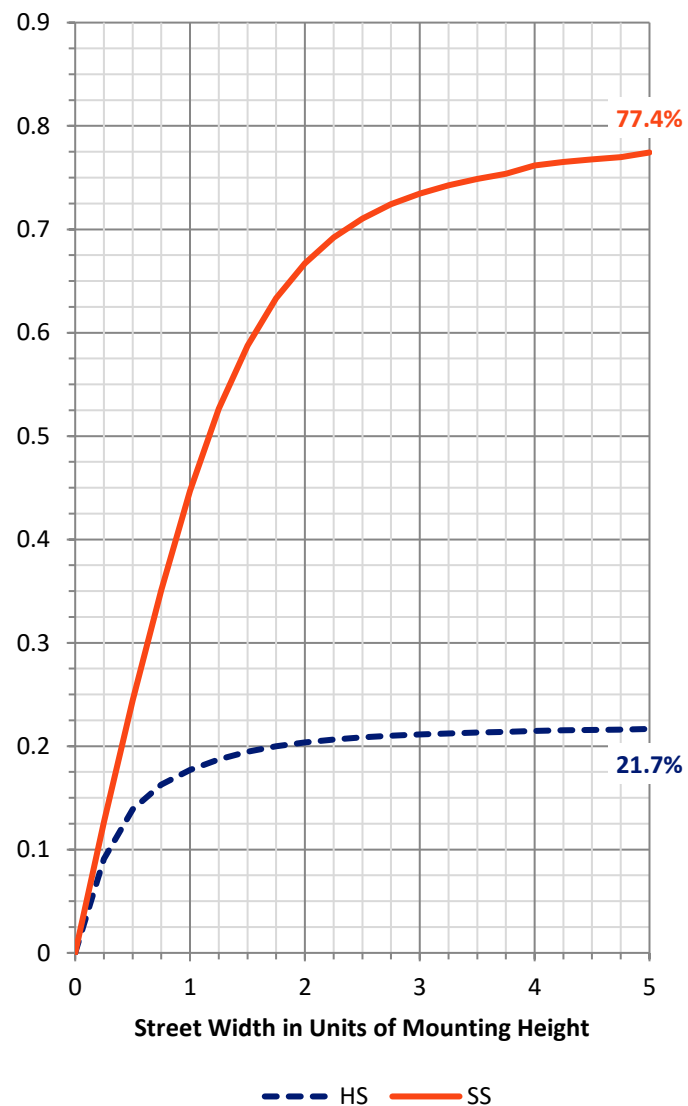
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1377.9   | 0.0    | 1377.9 |
|                    | % Fixture | 21.9     | 0.0    | 21.9   |
| <b>Street Side</b> | Lumens    | 4921.1   | 0.0    | 4921.1 |
|                    | % Fixture | 78.1     | 0.0    | 78.1   |
| <b>Total</b>       | Lumens    | 6299.0   | 0.0    | 6299.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 134.0  | 2.1       |
| 10°-20°   | 355.4  | 5.6       |
| 20°-30°   | 614.0  | 9.7       |
| 30°-40°   | 713.6  | 11.3      |
| 40°-50°   | 995.6  | 15.8      |
| 50°-60°   | 1351.0 | 21.4      |
| 60°-70°   | 1285.3 | 20.4      |
| 70°-80°   | 694.4  | 11.0      |
| 80°-90°   | 155.6  | 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°    | 6299.0 | 100.0     |
| 0°-180°   | 6299.0 | 100.0     |

**Coefficient of Utilization**



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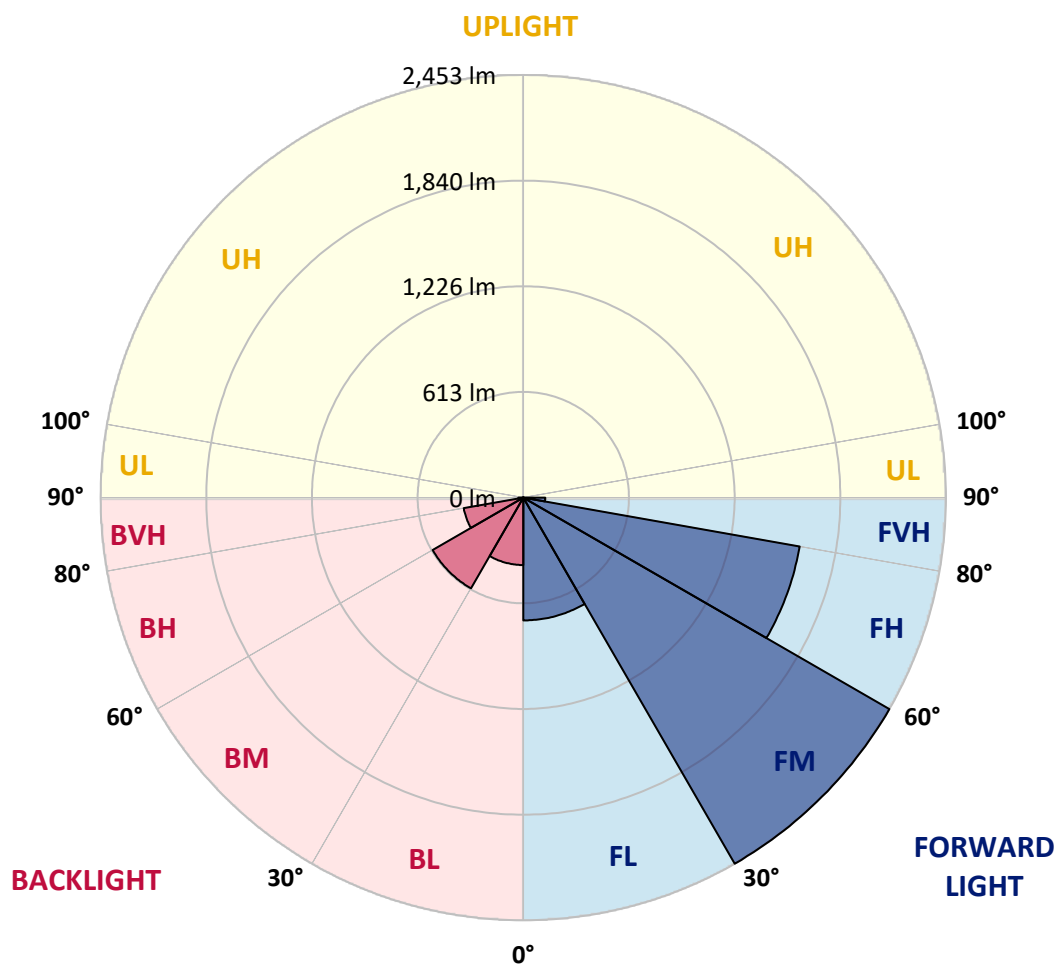
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 712.4  | 11.3      |                         |      |         |
| FM   | (30°-60°)   | 2452.7 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 1628.8 | 25.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 127.2  | 2.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 391.0  | 6.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 607.6  | 9.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 350.8  | 5.6       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 28.4   | 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°    | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 |
| 2.5°  | 1756.2 | 1749.5 | 1730.8 | 1681.8 | 1632.3 | 1582.0 | 1543.4 | 1495.2 | 1444.9 | 1417.9 | 1383.4 |
| 5°    | 1780.3 | 1772.8 | 1728.7 | 1618.2 | 1518.1 | 1412.9 | 1329.0 | 1255.4 | 1225.5 | 1181.4 | 1146.1 |
| 7.5°  | 1723.8 | 1720.4 | 1654.4 | 1495.6 | 1358.5 | 1220.9 | 1125.8 | 1066.8 | 1013.1 | 993.2  | 997.4  |
| 10°   | 1672.2 | 1658.9 | 1576.2 | 1368.9 | 1208.9 | 1097.1 | 1028.9 | 971.2  | 933.4  | 923.4  | 925.5  |
| 12.5° | 1629.4 | 1611.6 | 1513.9 | 1283.7 | 1143.6 | 1054.3 | 967.4  | 907.2  | 872.7  | 882.2  | 914.7  |
| 15°   | 1620.7 | 1596.6 | 1487.7 | 1254.6 | 1107.9 | 992.8  | 897.6  | 828.2  | 802.5  | 823.2  | 875.2  |
| 17.5° | 1677.2 | 1646.9 | 1532.6 | 1264.1 | 1073.8 | 930.0  | 813.3  | 733.9  | 712.3  | 745.5  | 813.3  |
| 20°   | 1858.8 | 1813.9 | 1672.6 | 1319.4 | 1070.5 | 898.9  | 764.2  | 684.4  | 693.6  | 756.7  | 827.4  |
| 22.5° | 2194.6 | 2127.3 | 1917.8 | 1400.0 | 1087.9 | 891.0  | 754.2  | 712.7  | 763.0  | 816.6  | 863.1  |
| 25°   | 2261.1 | 2208.3 | 1961.9 | 1418.3 | 1084.2 | 885.6  | 782.5  | 803.3  | 859.4  | 886.0  | 869.8  |
| 27.5° | 2298.5 | 2238.2 | 1959.0 | 1327.7 | 969.5  | 803.3  | 748.0  | 782.5  | 796.6  | 770.9  | 726.8  |
| 30°   | 2385.7 | 2323.0 | 2008.4 | 1232.6 | 798.3  | 595.9  | 522.4  | 508.2  | 517.8  | 522.8  | 507.0  |
| 32.5° | 2505.8 | 2443.9 | 2101.5 | 1170.2 | 690.3  | 492.9  | 420.6  | 400.6  | 396.0  | 390.6  | 384.4  |
| 35°   | 2661.3 | 2566.1 | 2192.9 | 1130.3 | 645.8  | 455.9  | 389.4  | 374.0  | 367.8  | 360.3  | 353.6  |
| 37.5° | 2819.2 | 2719.4 | 2308.5 | 1088.4 | 616.3  | 430.1  | 368.6  | 361.5  | 350.7  | 342.8  | 333.3  |
| 40°   | 2987.1 | 2875.3 | 2413.6 | 1051.8 | 587.6  | 413.5  | 353.6  | 352.8  | 338.7  | 329.5  | 318.3  |
| 42.5° | 3132.5 | 3017.4 | 2507.5 | 1029.4 | 565.6  | 396.0  | 344.5  | 347.0  | 332.5  | 318.7  | 304.2  |
| 45°   | 3248.0 | 3135.0 | 2594.4 | 1029.4 | 547.7  | 378.6  | 342.8  | 341.2  | 326.6  | 309.6  | 293.0  |
| 47.5° | 3349.4 | 3232.7 | 2679.1 | 1055.5 | 536.5  | 364.0  | 333.7  | 336.6  | 321.6  | 300.0  | 283.8  |
| 50°   | 3428.0 | 3324.9 | 2793.4 | 1096.3 | 525.3  | 352.4  | 322.1  | 337.9  | 317.5  | 295.0  | 276.3  |
| 52.5° | 3528.1 | 3435.9 | 2931.0 | 1151.9 | 515.7  | 339.5  | 311.7  | 337.9  | 317.1  | 295.5  | 275.1  |
| 55°   | 3666.9 | 3569.7 | 3096.8 | 1198.1 | 500.3  | 327.5  | 302.5  | 328.3  | 315.8  | 293.4  | 271.8  |
| 57.5° | 3764.2 | 3691.4 | 3214.0 | 1228.8 | 478.3  | 312.1  | 294.2  | 319.2  | 310.4  | 285.5  | 261.8  |
| 58°   | 3768.7 | 3697.7 | 3231.0 | 1235.9 | 472.9  | 309.2  | 292.1  | 315.0  | 307.9  | 282.2  | 258.5  |
| 60°   | 3716.4 | 3655.3 | 3234.3 | 1225.9 | 442.2  | 294.6  | 281.3  | 298.0  | 294.6  | 262.6  | 240.6  |
| 62.5° | 3526.1 | 3460.8 | 3100.1 | 1144.9 | 401.4  | 276.8  | 264.7  | 275.1  | 267.6  | 235.2  | 214.8  |
| 65°   | 3255.5 | 3135.4 | 2824.2 | 1017.7 | 372.3  | 257.6  | 242.3  | 243.1  | 235.2  | 211.9  | 194.1  |
| 67.5° | 2895.2 | 2761.0 | 2391.2 | 857.7  | 350.3  | 236.5  | 215.7  | 213.6  | 204.0  | 189.1  | 174.5  |
| 70°   | 2451.8 | 2360.0 | 1943.2 | 697.7  | 325.8  | 213.2  | 185.8  | 184.5  | 178.7  | 167.5  | 154.6  |
| 72.5° | 1987.2 | 1870.5 | 1569.2 | 558.5  | 295.9  | 190.7  | 157.9  | 160.4  | 152.9  | 145.0  | 133.4  |
| 75°   | 1466.5 | 1390.1 | 1213.0 | 448.0  | 255.6  | 166.2  | 131.7  | 132.6  | 129.2  | 120.9  | 111.8  |
| 77.5° | 965.8  | 942.9  | 867.7  | 294.2  | 196.6  | 132.1  | 107.6  | 108.5  | 106.0  | 98.5   | 88.9   |
| 80°   | 649.9  | 634.6  | 588.0  | 189.5  | 131.3  | 95.6   | 83.1   | 83.9   | 83.5   | 75.6   | 62.8   |
| 82.5° | 400.6  | 394.0  | 379.0  | 128.0  | 91.0   | 68.6   | 54.9   | 57.3   | 61.9   | 53.2   | 42.8   |
| 85°   | 189.1  | 189.5  | 229.0  | 69.8   | 53.6   | 44.0   | 29.9   | 32.0   | 32.0   | 32.0   | 24.1   |
| 87.5° | 24.5   | 25.8   | 31.6   | 29.5   | 19.5   | 16.6   | 10.8   | 9.1    | 7.9    | 10.4   | 7.5    |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 |
| 2.5°  | 1371.4 | 1363.0 | 1345.2 | 1341.0 | 1338.5 | 1345.6 | 1326.9 | 1331.9 | 1323.6 | 1346.8 | 1343.1 |
| 5°    | 1148.2 | 1149.0 | 1163.6 | 1173.1 | 1176.5 | 1173.1 | 1160.7 | 1139.1 | 1122.4 | 1115.8 | 1117.4 |
| 7.5°  | 989.5  | 1004.0 | 1028.9 | 1056.8 | 1082.1 | 1089.6 | 1082.5 | 1041.4 | 996.5  | 968.3  | 959.1  |
| 10°   | 936.7  | 956.2  | 984.9  | 1006.9 | 1029.4 | 1047.2 | 1051.0 | 1019.0 | 965.8  | 898.9  | 872.7  |
| 12.5° | 939.6  | 966.2  | 993.6  | 1000.7 | 998.6  | 1005.7 | 1002.3 | 996.9  | 962.0  | 876.8  | 833.2  |
| 15°   | 912.2  | 943.7  | 962.9  | 959.1  | 952.5  | 946.2  | 937.5  | 923.8  | 911.3  | 851.5  | 803.3  |
| 17.5° | 849.0  | 881.4  | 897.2  | 898.4  | 898.4  | 896.8  | 875.6  | 870.6  | 868.9  | 839.9  | 810.3  |
| 20°   | 860.6  | 878.5  | 871.4  | 859.8  | 863.1  | 874.3  | 861.9  | 859.4  | 868.9  | 881.8  | 876.4  |
| 22.5° | 867.3  | 861.0  | 807.9  | 756.3  | 744.7  | 779.6  | 786.7  | 814.5  | 853.2  | 899.7  | 930.0  |
| 25°   | 826.1  | 775.9  | 680.7  | 622.5  | 589.7  | 622.1  | 664.5  | 716.0  | 773.8  | 833.6  | 868.9  |
| 27.5° | 690.7  | 652.4  | 584.3  | 531.9  | 503.2  | 508.2  | 544.4  | 591.3  | 645.0  | 685.3  | 711.0  |
| 30°   | 520.3  | 503.2  | 467.9  | 450.1  | 432.6  | 428.4  | 443.8  | 461.7  | 485.4  | 490.4  | 497.0  |
| 32.5° | 383.1  | 380.7  | 382.7  | 376.9  | 373.6  | 373.2  | 368.6  | 372.8  | 375.3  | 378.2  | 372.3  |
| 35°   | 346.6  | 343.3  | 337.4  | 335.8  | 333.7  | 334.5  | 332.5  | 330.4  | 332.0  | 334.5  | 336.2  |
| 37.5° | 327.9  | 322.9  | 314.6  | 311.7  | 311.7  | 312.9  | 309.6  | 308.8  | 311.7  | 319.6  | 323.7  |
| 40°   | 313.3  | 307.5  | 298.0  | 294.2  | 296.7  | 300.0  | 295.5  | 293.8  | 300.9  | 309.2  | 315.8  |
| 42.5° | 299.6  | 295.0  | 285.9  | 281.8  | 283.8  | 290.1  | 283.4  | 282.2  | 291.3  | 300.5  | 308.3  |
| 45°   | 288.0  | 283.4  | 275.1  | 273.0  | 273.9  | 279.7  | 275.1  | 275.1  | 283.8  | 293.8  | 300.9  |
| 47.5° | 278.8  | 273.0  | 267.6  | 266.0  | 266.8  | 270.1  | 269.3  | 269.3  | 277.6  | 288.0  | 295.0  |
| 50°   | 269.7  | 264.7  | 257.6  | 258.5  | 260.6  | 265.1  | 264.7  | 266.0  | 274.3  | 287.2  | 294.6  |
| 52.5° | 265.5  | 258.1  | 250.2  | 251.0  | 257.2  | 262.6  | 261.0  | 262.2  | 271.8  | 295.9  | 306.7  |
| 55°   | 261.0  | 251.0  | 241.9  | 243.1  | 250.2  | 258.1  | 256.0  | 257.6  | 268.9  | 301.7  | 316.7  |
| 57.5° | 252.2  | 240.6  | 230.6  | 231.5  | 241.9  | 250.2  | 246.8  | 248.9  | 262.2  | 295.5  | 311.3  |
| 58°   | 248.5  | 238.5  | 229.0  | 229.4  | 239.4  | 248.5  | 244.8  | 246.4  | 260.1  | 293.8  | 308.8  |
| 60°   | 232.7  | 226.9  | 218.6  | 219.0  | 228.6  | 236.5  | 234.4  | 236.0  | 249.3  | 281.8  | 293.0  |
| 62.5° | 211.1  | 207.8  | 205.7  | 205.7  | 211.5  | 219.0  | 221.1  | 223.2  | 235.2  | 254.7  | 264.7  |
| 65°   | 187.8  | 187.8  | 188.3  | 188.3  | 192.0  | 201.5  | 202.8  | 208.2  | 219.4  | 229.0  | 236.5  |
| 67.5° | 172.0  | 171.2  | 172.0  | 170.0  | 171.6  | 177.4  | 183.7  | 188.7  | 200.3  | 207.0  | 209.4  |
| 70°   | 151.7  | 151.3  | 151.7  | 148.8  | 150.8  | 155.8  | 160.0  | 168.3  | 180.4  | 185.3  | 186.6  |
| 72.5° | 131.7  | 131.7  | 132.6  | 130.5  | 130.5  | 135.9  | 138.8  | 147.9  | 159.2  | 162.1  | 162.5  |
| 75°   | 111.0  | 112.2  | 112.2  | 109.3  | 110.1  | 113.4  | 117.2  | 124.7  | 135.1  | 137.1  | 137.1  |
| 77.5° | 88.1   | 92.7   | 92.7   | 89.8   | 91.0   | 91.4   | 96.4   | 100.2  | 108.0  | 108.9  | 105.6  |
| 80°   | 64.0   | 68.6   | 72.3   | 69.8   | 71.9   | 69.4   | 72.3   | 74.8   | 82.7   | 79.0   | 73.6   |
| 82.5° | 45.7   | 49.0   | 51.9   | 52.4   | 50.3   | 45.7   | 49.5   | 49.9   | 53.6   | 48.6   | 45.7   |
| 85°   | 25.3   | 28.3   | 32.0   | 30.3   | 27.0   | 24.1   | 25.3   | 26.2   | 25.8   | 24.5   | 22.9   |
| 87.5° | 6.6    | 7.1    | 7.9    | 5.8    | 5.4    | 4.6    | 6.2    | 6.2    | 7.1    | 7.5    | 7.1    |
| 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°    | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 |
| 2.5°  | 1346.0 | 1364.3 | 1403.8 | 1433.7 | 1470.3 | 1514.7 | 1567.1 | 1619.9 | 1676.8 | 1694.7 | 1719.6 |
| 5°    | 1113.7 | 1159.4 | 1178.5 | 1233.0 | 1287.0 | 1368.0 | 1454.5 | 1554.6 | 1664.3 | 1717.1 | 1767.8 |
| 7.5°  | 951.6  | 976.2  | 996.1  | 1036.0 | 1100.8 | 1199.3 | 1307.8 | 1432.9 | 1588.3 | 1665.2 | 1739.5 |
| 10°   | 864.4  | 866.9  | 891.4  | 940.8  | 997.4  | 1084.2 | 1186.8 | 1326.9 | 1500.2 | 1593.7 | 1681.0 |
| 12.5° | 806.6  | 795.8  | 822.4  | 873.9  | 937.9  | 1018.1 | 1112.5 | 1245.9 | 1436.6 | 1532.6 | 1638.2 |
| 15°   | 755.9  | 738.9  | 758.8  | 811.6  | 874.8  | 969.1  | 1070.5 | 1211.8 | 1411.7 | 1523.5 | 1640.6 |
| 17.5° | 757.2  | 710.2  | 717.3  | 761.7  | 824.5  | 920.5  | 1043.5 | 1210.5 | 1449.5 | 1578.3 | 1717.1 |
| 20°   | 850.7  | 775.4  | 743.4  | 751.8  | 812.4  | 917.1  | 1055.9 | 1268.7 | 1573.7 | 1761.6 | 1909.9 |
| 22.5° | 942.5  | 897.2  | 845.7  | 828.6  | 861.9  | 971.6  | 1135.3 | 1406.3 | 1843.9 | 2126.9 | 2394.9 |
| 25°   | 910.5  | 949.1  | 936.3  | 912.2  | 919.6  | 1010.7 | 1189.3 | 1519.3 | 2053.7 | 2372.5 | 2624.3 |
| 27.5° | 728.5  | 798.7  | 812.8  | 812.4  | 815.3  | 890.1  | 1069.7 | 1443.3 | 2079.9 | 2419.4 | 2660.0 |
| 30°   | 512.0  | 518.2  | 525.7  | 540.2  | 553.5  | 620.4  | 836.9  | 1267.1 | 2068.3 | 2440.6 | 2681.6 |
| 32.5° | 369.4  | 377.7  | 388.1  | 408.1  | 439.7  | 524.9  | 732.2  | 1211.0 | 2129.8 | 2528.3 | 2744.8 |
| 35°   | 337.9  | 347.4  | 357.4  | 380.2  | 410.2  | 489.1  | 690.7  | 1187.7 | 2230.7 | 2670.4 | 2858.2 |
| 37.5° | 327.9  | 338.7  | 347.4  | 364.0  | 388.1  | 463.4  | 652.9  | 1171.9 | 2334.2 | 2820.8 | 3010.3 |
| 40°   | 320.8  | 333.3  | 340.3  | 353.6  | 370.3  | 439.7  | 619.2  | 1159.4 | 2434.4 | 2958.4 | 3132.5 |
| 42.5° | 314.6  | 327.5  | 336.6  | 346.2  | 359.9  | 418.5  | 589.3  | 1147.0 | 2521.2 | 3091.8 | 3254.3 |
| 45°   | 307.1  | 323.3  | 334.9  | 342.4  | 354.5  | 400.6  | 566.4  | 1137.0 | 2620.1 | 3210.2 | 3377.3 |
| 47.5° | 300.9  | 318.7  | 333.3  | 342.0  | 346.6  | 388.1  | 548.1  | 1150.7 | 2739.0 | 3334.1 | 3491.6 |
| 50°   | 301.3  | 318.3  | 336.6  | 350.3  | 338.3  | 377.7  | 536.9  | 1205.1 | 2893.6 | 3481.2 | 3581.7 |
| 52.5° | 314.6  | 335.4  | 349.9  | 353.2  | 326.6  | 365.3  | 531.1  | 1300.3 | 3076.4 | 3611.2 | 3672.7 |
| 55°   | 329.5  | 351.2  | 366.9  | 364.9  | 320.4  | 349.5  | 529.8  | 1401.7 | 3276.7 | 3762.9 | 3791.2 |
| 57.5° | 324.1  | 355.7  | 379.8  | 369.0  | 320.8  | 334.1  | 524.4  | 1483.6 | 3444.2 | 3876.4 | 3908.4 |
| 58°   | 322.5  | 354.1  | 381.5  | 368.2  | 319.6  | 329.5  | 523.2  | 1490.6 | 3467.5 | 3884.3 | 3925.0 |
| 60°   | 306.3  | 339.5  | 380.2  | 362.0  | 312.5  | 317.1  | 509.5  | 1513.5 | 3461.2 | 3843.5 | 3935.0 |
| 62.5° | 276.8  | 304.2  | 351.6  | 331.6  | 290.9  | 300.5  | 478.7  | 1485.2 | 3292.5 | 3647.4 | 3789.1 |
| 65°   | 243.5  | 263.9  | 295.5  | 291.7  | 260.1  | 283.4  | 436.8  | 1373.4 | 2954.7 | 3329.1 | 3478.3 |
| 67.5° | 218.6  | 235.2  | 255.2  | 249.8  | 234.0  | 260.6  | 391.5  | 1184.4 | 2575.7 | 2946.8 | 3134.6 |
| 70°   | 193.2  | 206.1  | 216.1  | 212.4  | 207.4  | 238.1  | 351.2  | 961.2  | 2212.5 | 2583.6 | 2765.6 |
| 72.5° | 167.5  | 179.5  | 187.8  | 182.4  | 179.5  | 214.4  | 318.3  | 745.9  | 1747.4 | 2131.4 | 2365.4 |
| 75°   | 140.0  | 152.1  | 157.9  | 151.7  | 150.0  | 189.1  | 269.7  | 557.3  | 1311.1 | 1643.1 | 1845.1 |
| 77.5° | 108.5  | 121.3  | 128.8  | 126.7  | 127.6  | 155.4  | 217.8  | 381.5  | 937.5  | 1119.9 | 1332.7 |
| 80°   | 76.0   | 90.2   | 95.2   | 93.1   | 98.9   | 118.4  | 153.8  | 242.3  | 646.6  | 726.8  | 876.8  |
| 82.5° | 47.0   | 60.3   | 61.1   | 63.2   | 67.3   | 87.7   | 115.9  | 147.5  | 406.0  | 419.7  | 528.6  |
| 85°   | 23.7   | 28.7   | 30.8   | 34.1   | 37.8   | 53.6   | 66.1   | 91.4   | 261.4  | 197.8  | 295.5  |
| 87.5° | 7.9    | 8.3    | 10.0   | 12.5   | 15.4   | 22.0   | 28.3   | 37.4   | 64.8   | 35.7   | 91.4   |
| 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°    | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 | 1580.8 |
| 2.5°  | 1769.9 | 1805.2 | 1831.0 | 1854.7 | 1831.8 | 1829.7 | 1807.3 | 1771.1 | 1756.2 | 1756.2 |
| 5°    | 1874.2 | 1956.9 | 2023.8 | 2066.6 | 2048.3 | 2004.3 | 1931.5 | 1838.9 | 1789.0 | 1780.3 |
| 7.5°  | 1902.9 | 2066.2 | 2190.4 | 2234.5 | 2203.7 | 2106.5 | 1967.3 | 1811.0 | 1739.5 | 1723.8 |
| 10°   | 1885.4 | 2097.8 | 2280.2 | 2350.0 | 2307.2 | 2160.1 | 1970.2 | 1778.6 | 1690.5 | 1672.2 |
| 12.5° | 1867.1 | 2101.9 | 2296.8 | 2397.8 | 2370.0 | 2203.3 | 1991.4 | 1757.4 | 1655.6 | 1629.4 |
| 15°   | 1880.4 | 2103.6 | 2276.5 | 2380.8 | 2398.6 | 2255.3 | 2026.3 | 1772.8 | 1648.5 | 1620.7 |
| 17.5° | 1964.4 | 2135.2 | 2247.4 | 2331.7 | 2394.5 | 2325.9 | 2125.6 | 1846.3 | 1711.7 | 1677.2 |
| 20°   | 2139.7 | 2210.8 | 2264.0 | 2329.2 | 2430.2 | 2470.1 | 2328.8 | 2048.3 | 1889.2 | 1858.8 |
| 22.5° | 2647.6 | 2634.7 | 2525.8 | 2524.5 | 2670.8 | 2830.8 | 2821.3 | 2458.9 | 2219.5 | 2194.6 |
| 25°   | 2837.9 | 2778.0 | 2620.5 | 2582.3 | 2646.7 | 2893.6 | 2857.8 | 2542.8 | 2321.8 | 2261.1 |
| 27.5° | 2763.5 | 2615.1 | 2511.7 | 2502.9 | 2481.7 | 2714.9 | 2800.9 | 2576.9 | 2357.5 | 2298.5 |
| 30°   | 2758.9 | 2540.8 | 2392.8 | 2410.3 | 2430.6 | 2653.4 | 2832.5 | 2683.7 | 2448.9 | 2385.7 |
| 32.5° | 2770.1 | 2551.1 | 2401.5 | 2404.9 | 2465.5 | 2662.5 | 2867.4 | 2800.1 | 2569.0 | 2505.8 |
| 35°   | 2815.4 | 2610.2 | 2457.2 | 2449.3 | 2544.1 | 2722.4 | 2926.8 | 2982.9 | 2733.2 | 2661.3 |
| 37.5° | 2888.6 | 2727.8 | 2559.0 | 2557.0 | 2694.5 | 2830.4 | 3000.8 | 3167.4 | 2896.5 | 2819.2 |
| 40°   | 2996.2 | 2865.3 | 2740.2 | 2729.0 | 2899.0 | 3006.2 | 3096.8 | 3364.0 | 3086.4 | 2987.1 |
| 42.5° | 3126.3 | 3030.3 | 2979.2 | 3023.6 | 3187.0 | 3203.6 | 3246.4 | 3545.6 | 3248.0 | 3132.5 |
| 45°   | 3246.8 | 3242.2 | 3313.3 | 3431.3 | 3526.5 | 3426.7 | 3402.6 | 3667.3 | 3373.5 | 3248.0 |
| 47.5° | 3390.2 | 3514.0 | 3728.4 | 3901.3 | 4001.0 | 3686.5 | 3536.0 | 3746.7 | 3465.0 | 3349.4 |
| 50°   | 3535.6 | 3839.4 | 4181.8 | 4422.8 | 4444.0 | 3968.6 | 3627.9 | 3821.5 | 3548.1 | 3428.0 |
| 52.5° | 3688.5 | 4099.1 | 4555.0 | 4835.1 | 4793.9 | 4214.2 | 3716.8 | 3872.2 | 3633.7 | 3528.1 |
| 55°   | 3821.5 | 4258.3 | 4763.6 | 5032.5 | 4972.2 | 4363.8 | 3812.8 | 3927.1 | 3755.9 | 3666.9 |
| 57.5° | 3895.9 | 4271.6 | 4711.7 | 4946.5 | 4881.2 | 4334.7 | 3856.8 | 3967.8 | 3834.0 | 3764.2 |
| 58°   | 3906.7 | 4253.7 | 4665.5 | 4896.6 | 4830.1 | 4310.2 | 3856.4 | 3966.1 | 3839.0 | 3768.7 |
| 60°   | 3897.2 | 4137.8 | 4493.9 | 4699.6 | 4629.8 | 4156.5 | 3840.6 | 3935.0 | 3775.8 | 3716.4 |
| 62.5° | 3808.6 | 3936.6 | 4197.6 | 4347.2 | 4327.3 | 3916.3 | 3775.8 | 3817.4 | 3583.4 | 3526.1 |
| 65°   | 3692.3 | 3662.4 | 3818.2 | 3924.2 | 3939.1 | 3736.3 | 3711.4 | 3563.0 | 3336.6 | 3255.5 |
| 67.5° | 3551.0 | 3351.5 | 3351.1 | 3411.4 | 3436.3 | 3459.6 | 3577.2 | 3286.7 | 2980.8 | 2895.2 |
| 70°   | 3311.2 | 2872.4 | 2740.2 | 2811.3 | 2790.5 | 2987.1 | 3337.4 | 2898.6 | 2552.0 | 2451.8 |
| 72.5° | 2871.5 | 2279.4 | 2067.8 | 2159.3 | 2106.9 | 2342.5 | 2920.2 | 2385.3 | 2110.2 | 1987.2 |
| 75°   | 2327.6 | 1705.1 | 1486.9 | 1570.8 | 1538.4 | 1776.9 | 2429.8 | 1732.5 | 1513.5 | 1466.5 |
| 77.5° | 1807.3 | 1235.5 | 1108.7 | 1097.1 | 1121.2 | 1322.3 | 1782.4 | 1169.8 | 997.8  | 965.8  |
| 80°   | 1161.1 | 884.3  | 891.8  | 876.8  | 889.3  | 833.6  | 1082.1 | 746.4  | 675.7  | 649.9  |
| 82.5° | 764.2  | 616.3  | 734.7  | 678.2  | 644.1  | 560.6  | 709.8  | 488.7  | 414.7  | 400.6  |
| 85°   | 520.7  | 453.8  | 413.1  | 315.8  | 371.9  | 431.8  | 532.3  | 263.1  | 208.6  | 189.1  |
| 87.5° | 235.2  | 157.9  | 115.9  | 71.5   | 113.0  | 130.5  | 258.5  | 30.8   | 23.7   | 24.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)