

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: P457078

Luminaire Tested: **GLAN-SA8B-827-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457078  
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-SA8B-827-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 800mA 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: 29116 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 325  
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



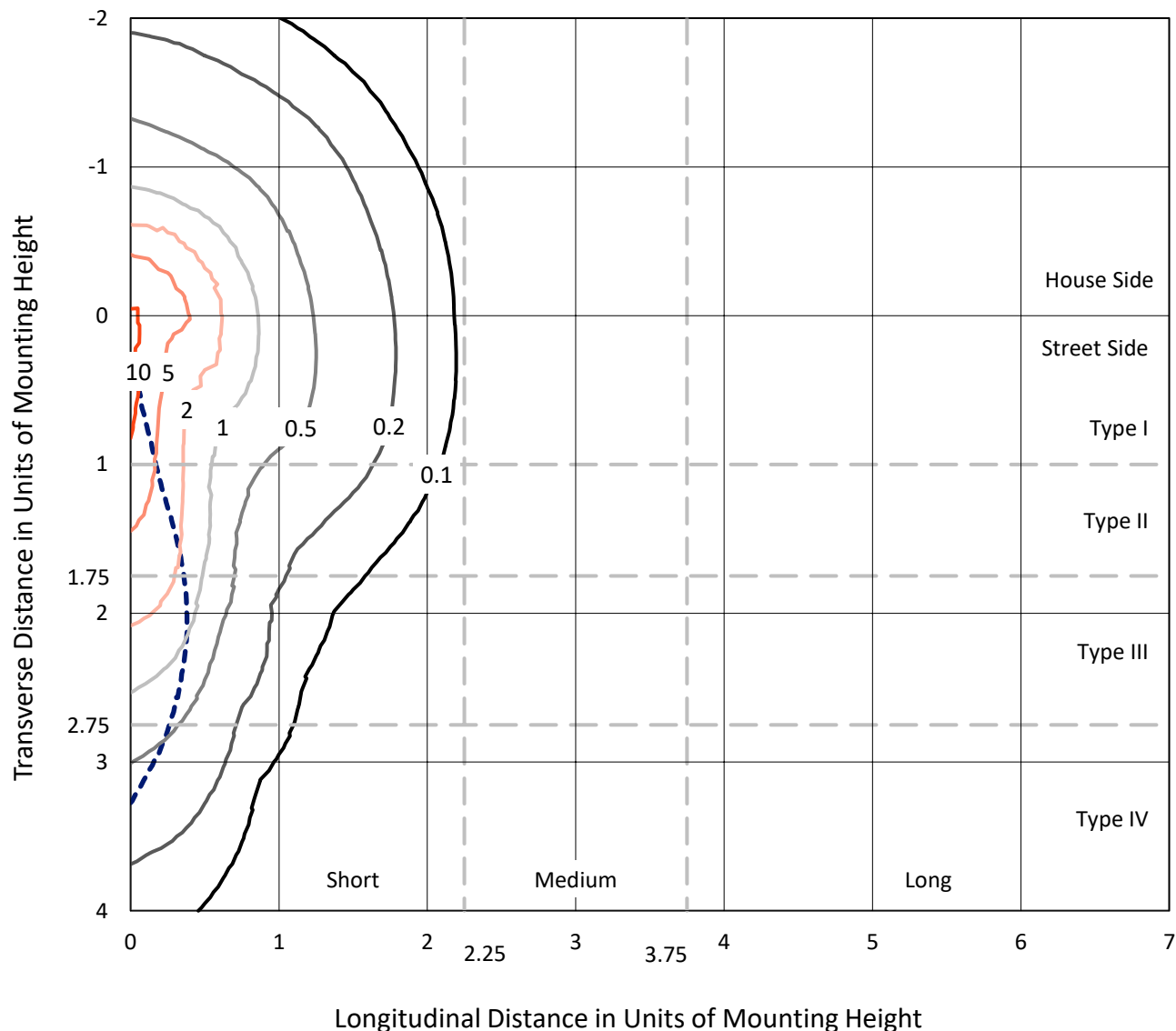
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



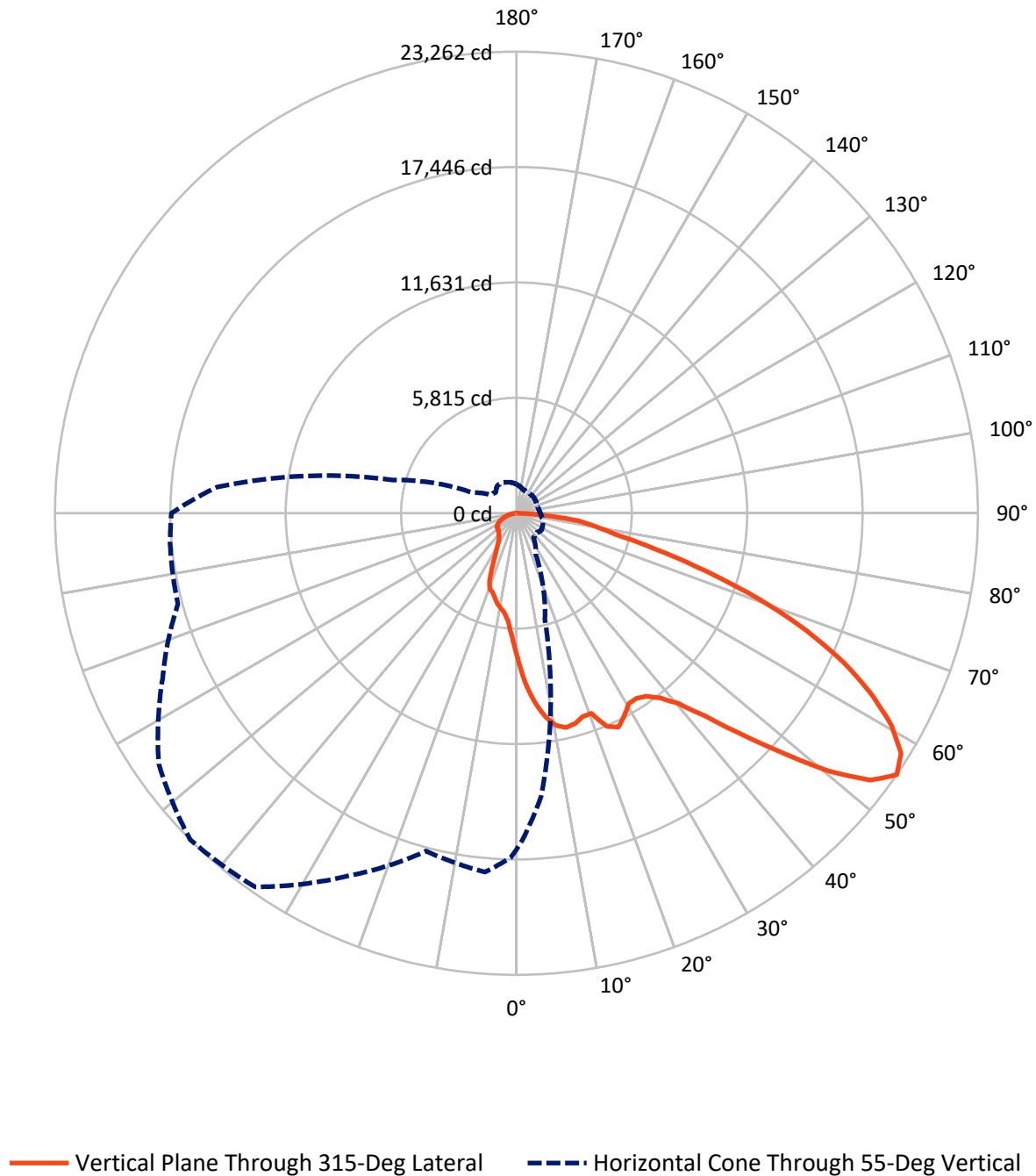
Based on 25 foot mounting height. Maximum calculated value = 12.5 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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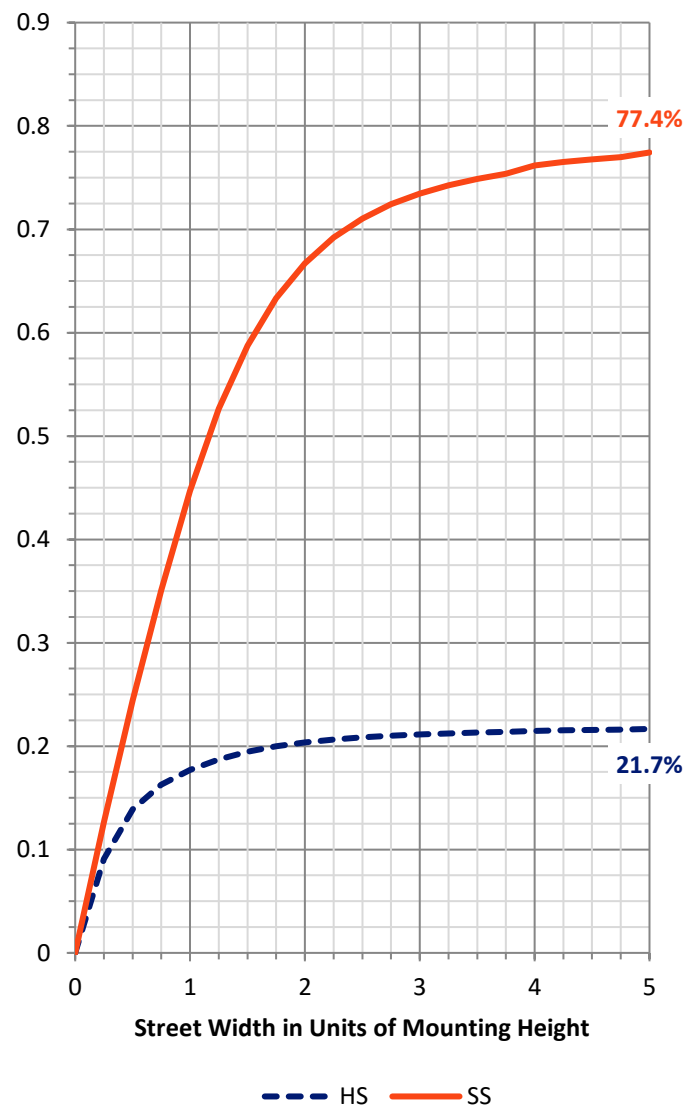
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6369.0   | 0.0    | 6369.0  |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 22747.0  | 0.0    | 22747.0 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 29116.0  | 0.0    | 29116.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 619.3   | 2.1       |
| 10°-20°   | 1643.0  | 5.6       |
| 20°-30°   | 2838.3  | 9.7       |
| 30°-40°   | 3298.6  | 11.3      |
| 40°-50°   | 4602.2  | 15.8      |
| 50°-60°   | 6244.7  | 21.4      |
| 60°-70°   | 5941.1  | 20.4      |
| 70°-80°   | 3209.5  | 11.0      |
| 80°-90°   | 719.3   | 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°    | 29116.0 | 100.0     |
| 0°-180°   | 29116.0 | 100.0     |

**Coefficient of Utilization**



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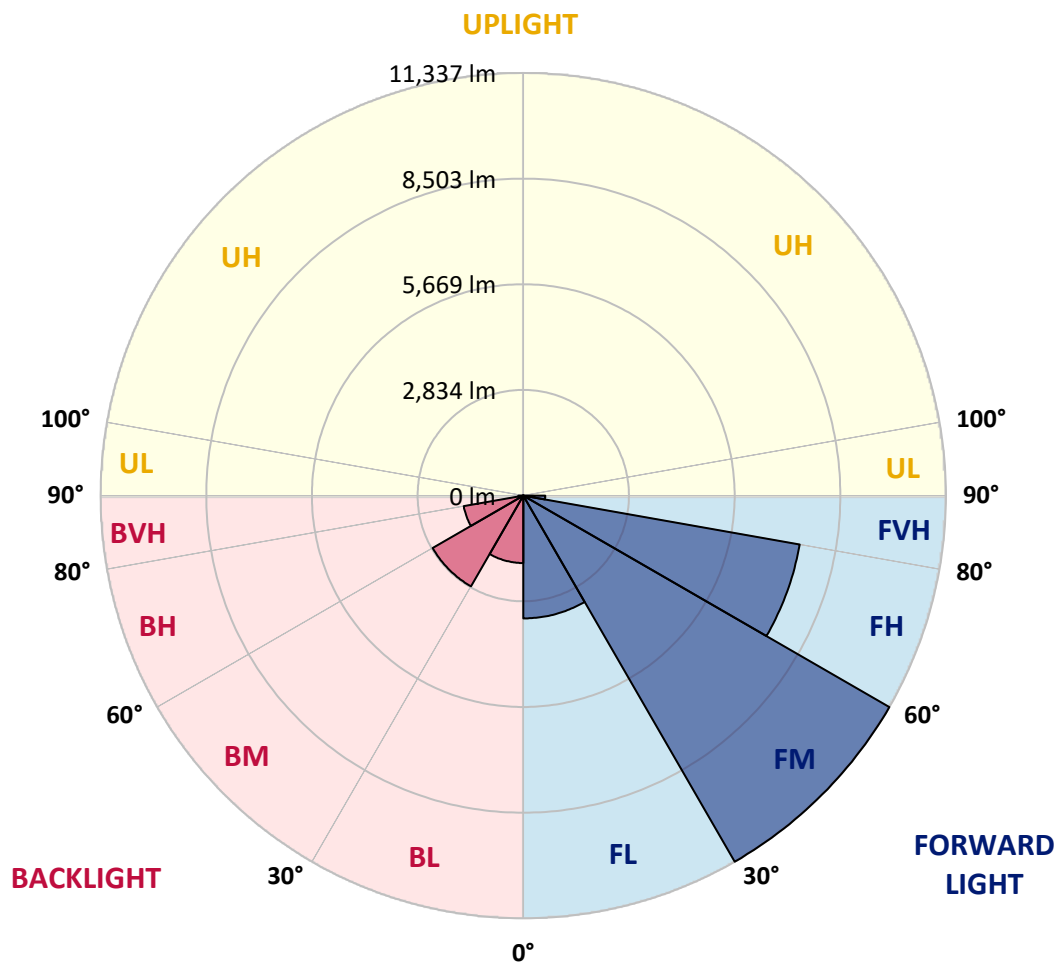
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3293.1  | 11.3      |                         |      |          |
| FM   | (30°-60°)   | 11337.2 | 38.9      |                         |      |          |
| FH   | (60°-80°)   | 7528.9  | 25.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 587.9   | 2.0       |                         |      | G4/750   |
| BL   | (0°-30°)    | 1807.5  | 6.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2808.3  | 9.6       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1621.7  | 5.6       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 131.4   | 0.5       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7307.0  | 7307.0  | 7307.0  | 7307.0 | 7307.0 | 7307.0 | 7307.0 | 7307.0 | 7307.0 | 7307.0 | 7307.0 |
| 2.5°  | 8117.6  | 8086.9  | 8000.4  | 7773.7 | 7545.2 | 7312.7 | 7134.1 | 6911.3 | 6678.9 | 6554.0 | 6394.6 |
| 5°    | 8229.0  | 8194.4  | 7990.8  | 7479.9 | 7016.9 | 6530.9 | 6142.9 | 5802.9 | 5664.6 | 5461.0 | 5297.8 |
| 7.5°  | 7967.8  | 7952.4  | 7647.0  | 6913.2 | 6279.3 | 5643.5 | 5203.6 | 4930.9 | 4683.1 | 4590.9 | 4610.1 |
| 10°   | 7729.6  | 7668.1  | 7285.8  | 6327.3 | 5587.8 | 5071.1 | 4756.1 | 4489.1 | 4314.3 | 4268.2 | 4277.8 |
| 12.5° | 7531.7  | 7449.1  | 6997.7  | 5933.6 | 5286.2 | 4873.2 | 4471.8 | 4193.3 | 4033.8 | 4078.0 | 4227.8 |
| 15°   | 7491.4  | 7380.0  | 6876.7  | 5799.1 | 5121.0 | 4589.0 | 4149.1 | 3828.3 | 3709.2 | 3805.2 | 4045.3 |
| 17.5° | 7752.6  | 7612.4  | 7084.2  | 5843.3 | 4963.5 | 4298.9 | 3759.1 | 3392.3 | 3292.4 | 3446.0 | 3759.1 |
| 20°   | 8592.0  | 8384.6  | 7731.5  | 6098.8 | 4948.2 | 4154.8 | 3532.5 | 3163.7 | 3205.9 | 3497.9 | 3824.4 |
| 22.5° | 10144.1 | 9832.9  | 8864.8  | 6471.4 | 5028.8 | 4118.3 | 3486.4 | 3294.3 | 3526.7 | 3774.5 | 3989.6 |
| 25°   | 10451.4 | 10207.5 | 9068.4  | 6555.9 | 5011.5 | 4093.4 | 3617.0 | 3713.0 | 3972.4 | 4095.3 | 4020.4 |
| 27.5° | 10624.3 | 10345.8 | 9055.0  | 6137.2 | 4481.4 | 3713.0 | 3457.6 | 3617.0 | 3682.3 | 3563.2 | 3359.6 |
| 30°   | 11027.7 | 10737.6 | 9283.6  | 5697.3 | 3690.0 | 2754.5 | 2414.5 | 2349.2 | 2393.4 | 2416.5 | 2343.5 |
| 32.5° | 11582.8 | 11296.6 | 9713.8  | 5409.2 | 3190.6 | 2278.1 | 1943.9 | 1851.7 | 1830.6 | 1805.6 | 1776.8 |
| 35°   | 12301.2 | 11861.4 | 10136.4 | 5224.8 | 2985.0 | 2107.2 | 1799.9 | 1728.8 | 1700.0 | 1665.4 | 1634.7 |
| 37.5° | 13031.2 | 12570.2 | 10670.4 | 5030.8 | 2848.6 | 1988.1 | 1703.8 | 1671.2 | 1621.2 | 1584.7 | 1540.5 |
| 40°   | 13807.2 | 13290.5 | 11156.4 | 4861.7 | 2716.1 | 1911.3 | 1634.7 | 1630.8 | 1565.5 | 1523.2 | 1471.4 |
| 42.5° | 14479.5 | 13947.4 | 11590.5 | 4758.0 | 2614.3 | 1830.6 | 1592.4 | 1603.9 | 1536.7 | 1473.3 | 1406.1 |
| 45°   | 15013.5 | 14491.0 | 11992.0 | 4758.0 | 2531.7 | 1749.9 | 1584.7 | 1577.0 | 1509.8 | 1431.0 | 1354.2 |
| 47.5° | 15482.2 | 14942.4 | 12383.8 | 4879.0 | 2479.8 | 1682.7 | 1542.5 | 1555.9 | 1486.8 | 1386.9 | 1312.0 |
| 50°   | 15845.2 | 15368.9 | 12912.1 | 5067.2 | 2428.0 | 1628.9 | 1488.7 | 1561.7 | 1467.5 | 1363.8 | 1277.4 |
| 52.5° | 16308.2 | 15881.7 | 13547.9 | 5324.6 | 2383.8 | 1569.3 | 1440.7 | 1561.7 | 1465.6 | 1365.7 | 1271.6 |
| 55°   | 16949.7 | 16500.2 | 14314.3 | 5537.9 | 2312.7 | 1513.6 | 1398.4 | 1517.5 | 1459.9 | 1356.1 | 1256.2 |
| 57.5° | 17399.2 | 17063.1 | 14856.0 | 5680.0 | 2210.9 | 1442.6 | 1360.0 | 1475.2 | 1434.9 | 1319.6 | 1210.1 |
| 58°   | 17420.3 | 17091.9 | 14934.7 | 5712.7 | 2185.9 | 1429.1 | 1350.4 | 1456.0 | 1423.4 | 1304.3 | 1194.8 |
| 60°   | 17178.3 | 16895.9 | 14950.1 | 5666.6 | 2043.8 | 1361.9 | 1300.4 | 1377.3 | 1361.9 | 1214.0 | 1112.2 |
| 62.5° | 16298.6 | 15997.0 | 14329.7 | 5292.0 | 1855.6 | 1279.3 | 1223.6 | 1271.6 | 1237.0 | 1087.2 | 993.1  |
| 65°   | 15048.1 | 14492.9 | 13054.2 | 4704.2 | 1721.1 | 1190.9 | 1119.9 | 1123.7 | 1087.2 | 979.6  | 897.0  |
| 67.5° | 13382.7 | 12762.2 | 11052.7 | 3964.7 | 1619.3 | 1093.0 | 996.9  | 987.3  | 943.1  | 874.0  | 806.8  |
| 70°   | 11333.1 | 10908.6 | 8982.0  | 3225.1 | 1506.0 | 985.4  | 858.6  | 852.9  | 826.0  | 774.1  | 714.6  |
| 72.5° | 9185.6  | 8645.8  | 7253.2  | 2581.6 | 1367.7 | 881.7  | 729.9  | 741.5  | 706.9  | 670.4  | 616.6  |
| 75°   | 6778.7  | 6425.3  | 5607.0  | 2070.7 | 1181.3 | 768.3  | 608.9  | 612.8  | 597.4  | 559.0  | 516.7  |
| 77.5° | 4464.1  | 4358.4  | 4010.8  | 1360.0 | 908.6  | 610.8  | 497.5  | 501.3  | 489.8  | 455.2  | 411.1  |
| 80°   | 3004.2  | 2933.2  | 2718.0  | 875.9  | 607.0  | 441.8  | 384.2  | 388.0  | 386.1  | 349.6  | 290.1  |
| 82.5° | 1851.7  | 1821.0  | 1751.8  | 591.6  | 420.7  | 316.9  | 253.6  | 265.1  | 286.2  | 245.9  | 197.8  |
| 85°   | 874.0   | 875.9   | 1058.4  | 322.7  | 247.8  | 203.6  | 138.3  | 147.9  | 147.9  | 147.9  | 111.4  |
| 87.5° | 113.3   | 119.1   | 146.0   | 136.4  | 90.3   | 76.8   | 49.9   | 42.3   | 36.5   | 48.0   | 34.6   |
| 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°    | 7307.0 | 7307.0 | 7307.0 | 7307.0 | 7307.0 | 7307.0 | 7307.0 | 7307.0 | 7307.0 | 7307.0 | 7307.0 |
| 2.5°  | 6338.9 | 6300.4 | 6217.8 | 6198.6 | 6187.1 | 6219.8 | 6133.3 | 6156.4 | 6118.0 | 6225.5 | 6208.2 |
| 5°    | 5307.4 | 5311.2 | 5378.4 | 5422.6 | 5438.0 | 5422.6 | 5365.0 | 5265.1 | 5188.3 | 5157.5 | 5165.2 |
| 7.5°  | 4573.6 | 4640.8 | 4756.1 | 4884.8 | 5001.9 | 5036.5 | 5003.9 | 4813.7 | 4606.2 | 4475.6 | 4433.4 |
| 10°   | 4329.6 | 4419.9 | 4552.5 | 4654.3 | 4758.0 | 4840.6 | 4857.9 | 4710.0 | 4464.1 | 4154.8 | 4033.8 |
| 12.5° | 4343.1 | 4466.0 | 4592.8 | 4625.4 | 4615.8 | 4648.5 | 4633.1 | 4608.2 | 4446.8 | 4053.0 | 3851.3 |
| 15°   | 4216.3 | 4362.3 | 4450.6 | 4433.4 | 4402.6 | 4373.8 | 4333.5 | 4270.1 | 4212.5 | 3935.9 | 3713.0 |
| 17.5° | 3924.3 | 4074.2 | 4147.2 | 4152.9 | 4152.9 | 4145.2 | 4047.3 | 4024.2 | 4016.5 | 3882.1 | 3745.7 |
| 20°   | 3978.1 | 4060.7 | 4028.1 | 3974.3 | 3989.6 | 4041.5 | 3983.9 | 3972.4 | 4016.5 | 4076.1 | 4051.1 |
| 22.5° | 4008.8 | 3980.0 | 3734.2 | 3496.0 | 3442.2 | 3603.5 | 3636.2 | 3764.9 | 3943.5 | 4158.7 | 4298.9 |
| 25°   | 3818.7 | 3586.3 | 3146.4 | 2877.5 | 2725.7 | 2875.5 | 3071.5 | 3309.7 | 3576.7 | 3853.3 | 4016.5 |
| 27.5° | 3192.5 | 3015.8 | 2700.7 | 2458.7 | 2326.2 | 2349.2 | 2516.3 | 2733.4 | 2981.2 | 3167.5 | 3286.6 |
| 30°   | 2404.9 | 2326.2 | 2162.9 | 2080.3 | 1999.6 | 1980.4 | 2051.5 | 2134.1 | 2243.6 | 2266.6 | 2297.4 |
| 32.5° | 1771.0 | 1759.5 | 1769.1 | 1742.2 | 1726.9 | 1724.9 | 1703.8 | 1723.0 | 1734.5 | 1748.0 | 1721.1 |
| 35°   | 1602.0 | 1586.6 | 1559.7 | 1552.1 | 1542.5 | 1546.3 | 1536.7 | 1527.1 | 1534.8 | 1546.3 | 1554.0 |
| 37.5° | 1515.6 | 1492.5 | 1454.1 | 1440.7 | 1440.7 | 1446.4 | 1431.0 | 1427.2 | 1440.7 | 1477.1 | 1496.4 |
| 40°   | 1448.3 | 1421.4 | 1377.3 | 1360.0 | 1371.5 | 1386.9 | 1365.7 | 1358.1 | 1390.7 | 1429.1 | 1459.9 |
| 42.5° | 1384.9 | 1363.8 | 1321.6 | 1302.3 | 1312.0 | 1340.8 | 1310.0 | 1304.3 | 1346.5 | 1388.8 | 1425.3 |
| 45°   | 1331.2 | 1310.0 | 1271.6 | 1262.0 | 1265.9 | 1292.7 | 1271.6 | 1271.6 | 1312.0 | 1358.1 | 1390.7 |
| 47.5° | 1288.9 | 1262.0 | 1237.0 | 1229.4 | 1233.2 | 1248.6 | 1244.7 | 1244.7 | 1283.1 | 1331.2 | 1363.8 |
| 50°   | 1246.6 | 1223.6 | 1190.9 | 1194.8 | 1204.4 | 1225.5 | 1223.6 | 1229.4 | 1267.8 | 1327.3 | 1361.9 |
| 52.5° | 1227.4 | 1192.9 | 1156.4 | 1160.2 | 1189.0 | 1214.0 | 1206.3 | 1212.1 | 1256.2 | 1367.7 | 1417.6 |
| 55°   | 1206.3 | 1160.2 | 1117.9 | 1123.7 | 1156.4 | 1192.9 | 1183.3 | 1190.9 | 1242.8 | 1394.5 | 1463.7 |
| 57.5° | 1166.0 | 1112.2 | 1066.1 | 1069.9 | 1117.9 | 1156.4 | 1141.0 | 1150.6 | 1212.1 | 1365.7 | 1438.7 |
| 58°   | 1148.7 | 1102.6 | 1058.4 | 1060.3 | 1106.4 | 1148.7 | 1131.4 | 1139.1 | 1202.5 | 1358.1 | 1427.2 |
| 60°   | 1075.7 | 1048.8 | 1010.4 | 1012.3 | 1056.5 | 1093.0 | 1083.4 | 1091.1 | 1152.5 | 1302.3 | 1354.2 |
| 62.5° | 975.8  | 960.4  | 950.8  | 950.8  | 977.7  | 1012.3 | 1021.9 | 1031.5 | 1087.2 | 1177.5 | 1223.6 |
| 65°   | 868.2  | 868.2  | 870.2  | 870.2  | 887.4  | 931.6  | 937.4  | 962.4  | 1014.2 | 1058.4 | 1093.0 |
| 67.5° | 795.2  | 791.4  | 795.2  | 785.6  | 793.3  | 820.2  | 849.0  | 872.1  | 925.9  | 956.6  | 968.1  |
| 70°   | 701.1  | 699.2  | 701.1  | 687.7  | 697.3  | 720.3  | 739.5  | 778.0  | 833.7  | 856.7  | 862.5  |
| 72.5° | 608.9  | 608.9  | 612.8  | 603.2  | 603.2  | 628.1  | 641.6  | 683.8  | 735.7  | 749.1  | 751.1  |
| 75°   | 512.9  | 518.6  | 518.6  | 505.2  | 509.0  | 524.4  | 541.7  | 576.3  | 624.3  | 633.9  | 633.9  |
| 77.5° | 407.2  | 428.4  | 428.4  | 414.9  | 420.7  | 422.6  | 445.6  | 462.9  | 499.4  | 503.3  | 487.9  |
| 80°   | 295.8  | 316.9  | 334.2  | 322.7  | 332.3  | 320.8  | 334.2  | 345.8  | 382.3  | 365.0  | 340.0  |
| 82.5° | 211.3  | 226.7  | 240.1  | 242.0  | 232.4  | 211.3  | 228.6  | 230.5  | 247.8  | 224.7  | 211.3  |
| 85°   | 117.2  | 130.6  | 147.9  | 140.2  | 124.9  | 111.4  | 117.2  | 121.0  | 119.1  | 113.3  | 105.6  |
| 87.5° | 30.7   | 32.7   | 36.5   | 26.9   | 25.0   | 21.1   | 28.8   | 28.8   | 32.7   | 34.6   | 32.7   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°    | 270°    | 275°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 7307.0 | 7307.0 | 7307.0 | 7307.0 | 7307.0 | 7307.0 | 7307.0 | 7307.0 | 7307.0  | 7307.0  | 7307.0  |
| 2.5°  | 6221.7 | 6306.2 | 6488.7 | 6627.0 | 6796.0 | 7001.6 | 7243.6 | 7487.5 | 7750.7  | 7833.3  | 7948.5  |
| 5°    | 5147.9 | 5359.2 | 5447.6 | 5699.2 | 5948.9 | 6323.5 | 6723.0 | 7186.0 | 7693.1  | 7937.0  | 8171.4  |
| 7.5°  | 4398.8 | 4512.1 | 4604.3 | 4788.7 | 5088.4 | 5543.6 | 6045.0 | 6623.1 | 7341.6  | 7696.9  | 8040.7  |
| 10°   | 3995.4 | 4006.9 | 4120.3 | 4348.8 | 4610.1 | 5011.5 | 5486.0 | 6133.3 | 6934.3  | 7366.5  | 7769.9  |
| 12.5° | 3728.4 | 3678.5 | 3801.4 | 4039.6 | 4335.4 | 4706.1 | 5142.2 | 5758.8 | 6640.4  | 7084.2  | 7572.1  |
| 15°   | 3494.1 | 3415.3 | 3507.5 | 3751.5 | 4043.4 | 4479.5 | 4948.2 | 5601.2 | 6525.2  | 7041.9  | 7583.6  |
| 17.5° | 3499.8 | 3282.8 | 3315.4 | 3520.9 | 3811.0 | 4254.7 | 4823.3 | 5595.5 | 6700.0  | 7295.5  | 7937.0  |
| 20°   | 3932.0 | 3584.3 | 3436.4 | 3474.8 | 3755.3 | 4239.4 | 4880.9 | 5864.4 | 7274.3  | 8142.6  | 8828.3  |
| 22.5° | 4356.5 | 4147.2 | 3909.0 | 3830.2 | 3983.9 | 4491.0 | 5247.8 | 6500.2 | 8522.9  | 9831.0  | 11070.0 |
| 25°   | 4208.6 | 4387.3 | 4327.7 | 4216.3 | 4250.9 | 4671.5 | 5497.5 | 7022.7 | 9492.9  | 10966.2 | 12130.3 |
| 27.5° | 3367.3 | 3691.9 | 3757.2 | 3755.3 | 3768.7 | 4114.5 | 4944.3 | 6671.2 | 9613.9  | 11183.3 | 12295.5 |
| 30°   | 2366.5 | 2395.3 | 2429.9 | 2497.1 | 2558.6 | 2867.9 | 3868.6 | 5856.7 | 9560.2  | 11281.3 | 12395.4 |
| 32.5° | 1707.7 | 1746.1 | 1794.1 | 1886.3 | 2032.3 | 2426.1 | 3384.6 | 5597.4 | 9844.4  | 11686.6 | 12687.3 |
| 35°   | 1561.7 | 1605.8 | 1651.9 | 1757.6 | 1895.9 | 2260.9 | 3192.5 | 5489.8 | 10311.2 | 12343.5 | 13211.7 |
| 37.5° | 1515.6 | 1565.5 | 1605.8 | 1682.7 | 1794.1 | 2141.8 | 3017.7 | 5416.8 | 10789.5 | 13038.8 | 13914.8 |
| 40°   | 1482.9 | 1540.5 | 1573.2 | 1634.7 | 1711.5 | 2032.3 | 2862.1 | 5359.2 | 11252.4 | 13674.7 | 14479.5 |
| 42.5° | 1454.1 | 1513.6 | 1555.9 | 1600.1 | 1663.5 | 1934.3 | 2723.8 | 5301.6 | 11653.9 | 14291.3 | 15042.3 |
| 45°   | 1419.5 | 1494.4 | 1548.2 | 1582.8 | 1638.5 | 1851.7 | 2618.1 | 5255.5 | 12111.1 | 14838.7 | 15610.9 |
| 47.5° | 1390.7 | 1473.3 | 1540.5 | 1580.9 | 1602.0 | 1794.1 | 2533.6 | 5318.9 | 12660.4 | 15411.1 | 16139.1 |
| 50°   | 1392.6 | 1471.4 | 1555.9 | 1619.3 | 1563.6 | 1746.1 | 2481.8 | 5570.5 | 13375.0 | 16091.1 | 16556.0 |
| 52.5° | 1454.1 | 1550.1 | 1617.4 | 1632.7 | 1509.8 | 1688.4 | 2454.9 | 6010.4 | 14220.2 | 16692.3 | 16976.6 |
| 55°   | 1523.2 | 1623.1 | 1696.1 | 1686.5 | 1481.0 | 1615.4 | 2449.1 | 6479.1 | 15146.0 | 17393.5 | 17524.1 |
| 57.5° | 1498.3 | 1644.3 | 1755.7 | 1705.7 | 1482.9 | 1544.4 | 2424.1 | 6857.5 | 15920.1 | 17917.8 | 18065.8 |
| 58°   | 1490.6 | 1636.6 | 1763.4 | 1701.9 | 1477.1 | 1523.2 | 2418.4 | 6890.2 | 16027.7 | 17954.3 | 18142.6 |
| 60°   | 1415.7 | 1569.3 | 1757.6 | 1673.1 | 1444.5 | 1465.6 | 2355.0 | 6995.8 | 15998.9 | 17766.1 | 18188.7 |
| 62.5° | 1279.3 | 1406.1 | 1625.1 | 1532.9 | 1344.6 | 1388.8 | 2212.8 | 6865.2 | 15219.0 | 16859.5 | 17514.5 |
| 65°   | 1125.6 | 1219.8 | 1365.7 | 1348.4 | 1202.5 | 1310.0 | 2018.8 | 6348.5 | 13657.4 | 15388.1 | 16077.7 |
| 67.5° | 1010.4 | 1087.2 | 1179.4 | 1154.4 | 1081.4 | 1204.4 | 1809.5 | 5474.5 | 11905.5 | 13620.9 | 14489.1 |
| 70°   | 893.2  | 952.8  | 998.9  | 981.6  | 958.5  | 1100.7 | 1623.1 | 4443.0 | 10226.7 | 11942.0 | 12783.4 |
| 72.5° | 774.1  | 829.8  | 868.2  | 843.3  | 829.8  | 991.2  | 1471.4 | 3448.0 | 8077.2  | 9852.1  | 10933.6 |
| 75°   | 647.3  | 703.0  | 729.9  | 701.1  | 693.4  | 874.0  | 1246.6 | 2575.9 | 6060.3  | 7595.1  | 8528.7  |
| 77.5° | 501.3  | 560.9  | 595.5  | 585.9  | 589.7  | 718.4  | 1006.5 | 1763.4 | 4333.5  | 5176.7  | 6160.2  |
| 80°   | 351.5  | 416.8  | 439.9  | 430.3  | 457.2  | 547.4  | 710.7  | 1119.9 | 2988.9  | 3359.6  | 4053.0  |
| 82.5° | 217.1  | 278.5  | 282.4  | 292.0  | 311.2  | 405.3  | 535.9  | 681.9  | 1876.7  | 1940.1  | 2443.3  |
| 85°   | 109.5  | 132.5  | 142.1  | 157.5  | 174.8  | 247.8  | 305.4  | 422.6  | 1208.2  | 914.3   | 1365.7  |
| 87.5° | 36.5   | 38.4   | 46.1   | 57.6   | 71.1   | 101.8  | 130.6  | 172.9  | 299.7   | 165.2   | 422.6   |
| 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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|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7307.0  | 7307.0  | 7307.0  | 7307.0  | 7307.0  | 7307.0  | 7307.0  | 7307.0  | 7307.0  | 7307.0  |
| 2.5°  | 8181.0  | 8344.2  | 8463.3  | 8572.8  | 8467.2  | 8457.6  | 8353.9  | 8186.7  | 8117.6  | 8117.6  |
| 5°    | 8663.1  | 9045.4  | 9354.6  | 9552.5  | 9468.0  | 9264.3  | 8928.2  | 8499.8  | 8269.3  | 8229.0  |
| 7.5°  | 8795.7  | 9550.6  | 10124.9 | 10328.5 | 10186.4 | 9736.9  | 9093.4  | 8371.1  | 8040.7  | 7967.8  |
| 10°   | 8715.0  | 9696.5  | 10539.8 | 10862.5 | 10664.7 | 9984.7  | 9106.8  | 8221.3  | 7814.1  | 7729.6  |
| 12.5° | 8630.5  | 9715.7  | 10616.6 | 11083.4 | 10954.7 | 10184.4 | 9204.8  | 8123.3  | 7652.7  | 7531.7  |
| 15°   | 8691.9  | 9723.4  | 10522.5 | 11004.6 | 11087.2 | 10424.5 | 9366.1  | 8194.4  | 7620.1  | 7491.4  |
| 17.5° | 9079.9  | 9869.4  | 10388.0 | 10778.0 | 11068.0 | 10751.1 | 9825.2  | 8534.4  | 7912.1  | 7752.6  |
| 20°   | 9890.5  | 10219.0 | 10464.9 | 10766.5 | 11233.2 | 11417.6 | 10764.5 | 9468.0  | 8732.3  | 8592.0  |
| 22.5° | 12237.8 | 12178.3 | 11675.0 | 11669.3 | 12345.4 | 13084.9 | 13040.8 | 11365.8 | 10259.4 | 10144.1 |
| 25°   | 13117.6 | 12841.0 | 12113.0 | 11936.3 | 12234.0 | 13375.0 | 13209.8 | 11753.8 | 10731.9 | 10451.4 |
| 27.5° | 12773.8 | 12088.0 | 11609.7 | 11569.4 | 11471.4 | 12549.0 | 12946.6 | 11911.3 | 10897.1 | 10624.3 |
| 30°   | 12752.6 | 11744.2 | 11060.4 | 11141.0 | 11235.2 | 12264.7 | 13092.6 | 12405.0 | 11319.7 | 11027.7 |
| 32.5° | 12804.5 | 11792.2 | 11100.7 | 11116.1 | 11396.5 | 12307.0 | 13254.0 | 12942.8 | 11874.8 | 11582.8 |
| 35°   | 13013.9 | 12065.0 | 11358.1 | 11321.6 | 11759.5 | 12583.6 | 13528.7 | 13788.0 | 12633.5 | 12301.2 |
| 37.5° | 13351.9 | 12608.6 | 11828.7 | 11819.1 | 12454.9 | 13083.0 | 13870.6 | 14640.8 | 13388.4 | 13031.2 |
| 40°   | 13849.5 | 13244.4 | 12666.2 | 12614.3 | 13400.0 | 13895.6 | 14314.3 | 15549.4 | 14266.3 | 13807.2 |
| 42.5° | 14450.7 | 14007.0 | 13770.7 | 13976.2 | 14731.1 | 14808.0 | 15005.8 | 16388.8 | 15013.5 | 14479.5 |
| 45°   | 15007.7 | 14986.6 | 15315.1 | 15860.6 | 16300.5 | 15839.5 | 15728.1 | 16951.7 | 15593.6 | 15013.5 |
| 47.5° | 15670.4 | 16242.9 | 17234.0 | 18033.1 | 18494.1 | 17040.0 | 16344.7 | 17318.5 | 16016.2 | 15482.2 |
| 50°   | 16342.7 | 17746.9 | 19329.7 | 20443.8 | 20541.8 | 18344.3 | 16769.2 | 17664.3 | 16400.4 | 15845.2 |
| 52.5° | 17049.6 | 18947.4 | 21054.6 | 22349.3 | 22159.1 | 19479.5 | 17180.2 | 17898.6 | 16796.1 | 16308.2 |
| 55°   | 17664.3 | 19683.1 | 22018.9 | 23261.7 | 22983.2 | 20171.0 | 17624.0 | 18152.2 | 17360.8 | 16949.7 |
| 57.5° | 18008.1 | 19744.6 | 21778.8 | 22864.1 | 22562.5 | 20036.6 | 17827.6 | 18340.4 | 17721.9 | 17399.2 |
| 58°   | 18058.1 | 19662.0 | 21565.6 | 22633.6 | 22326.2 | 19923.2 | 17825.6 | 18332.8 | 17745.0 | 17420.3 |
| 60°   | 18013.9 | 19126.1 | 20772.3 | 21723.1 | 21400.4 | 19212.5 | 17752.7 | 18188.7 | 17453.0 | 17178.3 |
| 62.5° | 17604.7 | 18196.4 | 19402.7 | 20094.2 | 20002.0 | 18102.3 | 17453.0 | 17645.1 | 16563.6 | 16298.6 |
| 65°   | 17066.9 | 16928.6 | 17648.9 | 18138.7 | 18207.9 | 17270.5 | 17155.3 | 16469.5 | 15422.6 | 15048.1 |
| 67.5° | 16413.8 | 15491.8 | 15489.9 | 15768.4 | 15883.7 | 15991.2 | 16534.8 | 15192.1 | 13778.4 | 13382.7 |
| 70°   | 15305.5 | 13277.0 | 12666.2 | 12994.7 | 12898.6 | 13807.2 | 15426.5 | 13398.0 | 11796.0 | 11333.1 |
| 72.5° | 13273.2 | 10536.0 | 9558.2  | 9980.8  | 9738.8  | 10827.9 | 13497.9 | 11025.8 | 9754.2  | 9185.6  |
| 75°   | 10758.8 | 7881.3  | 6872.9  | 7260.9  | 7111.1  | 8213.6  | 11231.3 | 8008.1  | 6995.8  | 6778.7  |
| 77.5° | 8353.9  | 5710.7  | 5124.9  | 5071.1  | 5182.5  | 6112.2  | 8238.6  | 5407.2  | 4612.0  | 4464.1  |
| 80°   | 5366.9  | 4087.6  | 4122.2  | 4053.0  | 4110.7  | 3853.3  | 5001.9  | 3449.9  | 3123.3  | 3004.2  |
| 82.5° | 3532.5  | 2848.6  | 3396.1  | 3134.9  | 2977.3  | 2591.2  | 3280.8  | 2258.9  | 1917.0  | 1851.7  |
| 85°   | 2406.8  | 2097.6  | 1909.3  | 1459.9  | 1719.2  | 1995.8  | 2460.6  | 1215.9  | 964.3   | 874.0   |
| 87.5° | 1087.2  | 729.9   | 535.9   | 330.4   | 522.5   | 603.2   | 1194.8  | 142.1   | 109.5   | 113.3   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)