

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: P456672

Luminaire Tested: **GLAN-SA8A-722-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456672  
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-SA8A-722-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2200K, 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: 23400 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



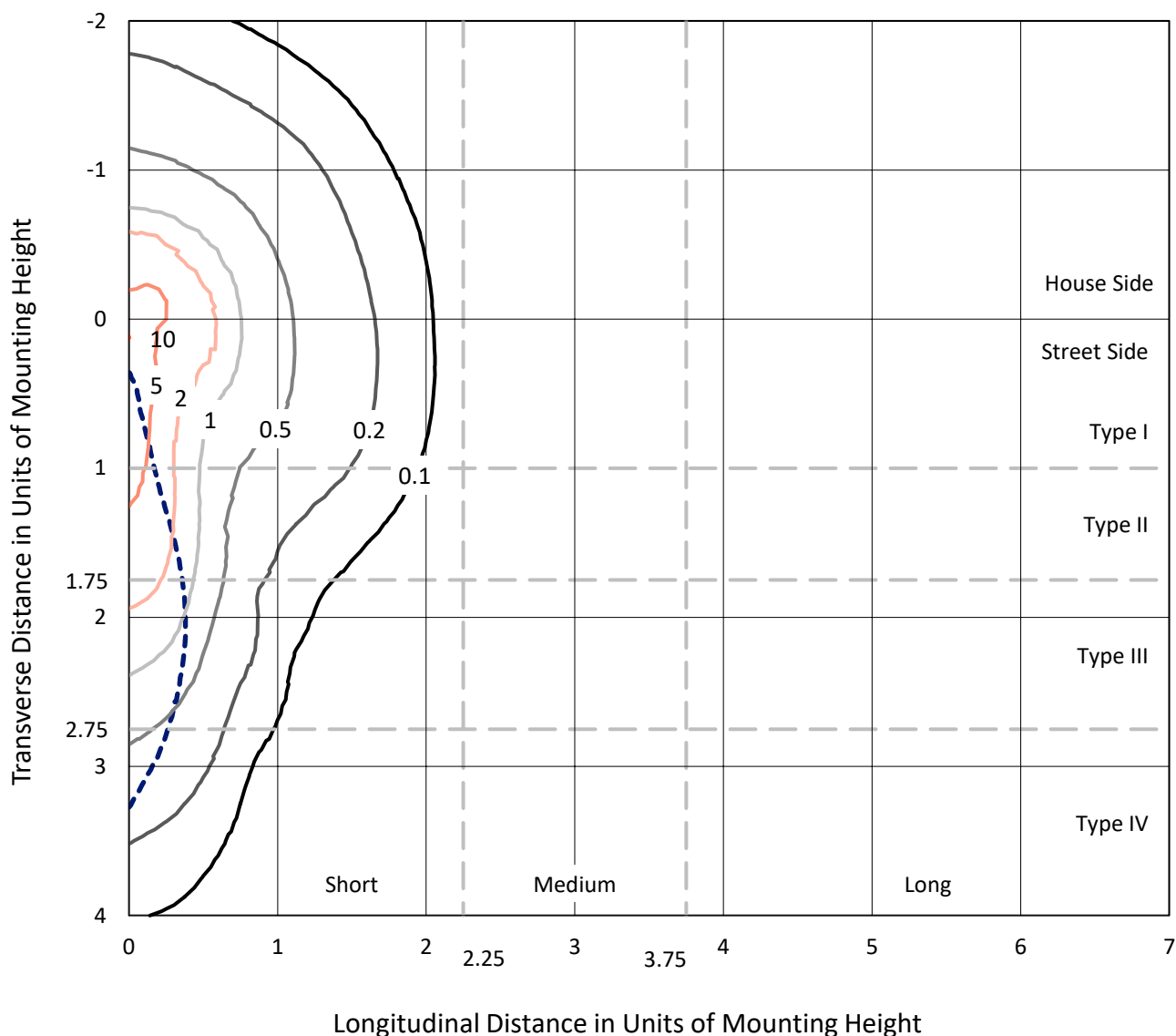
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



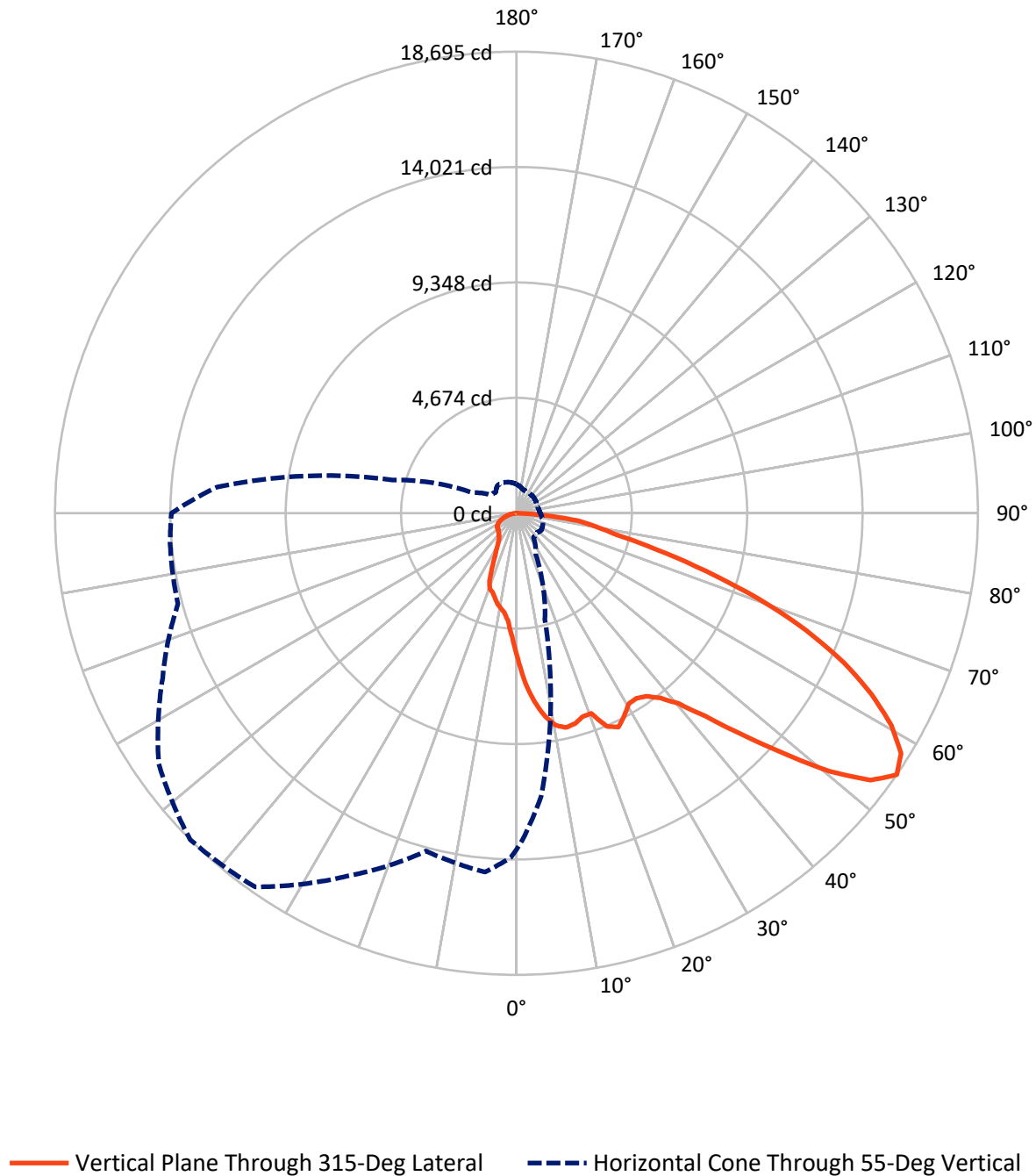
Based on 25 foot mounting height. Maximum calculated value = 10.1 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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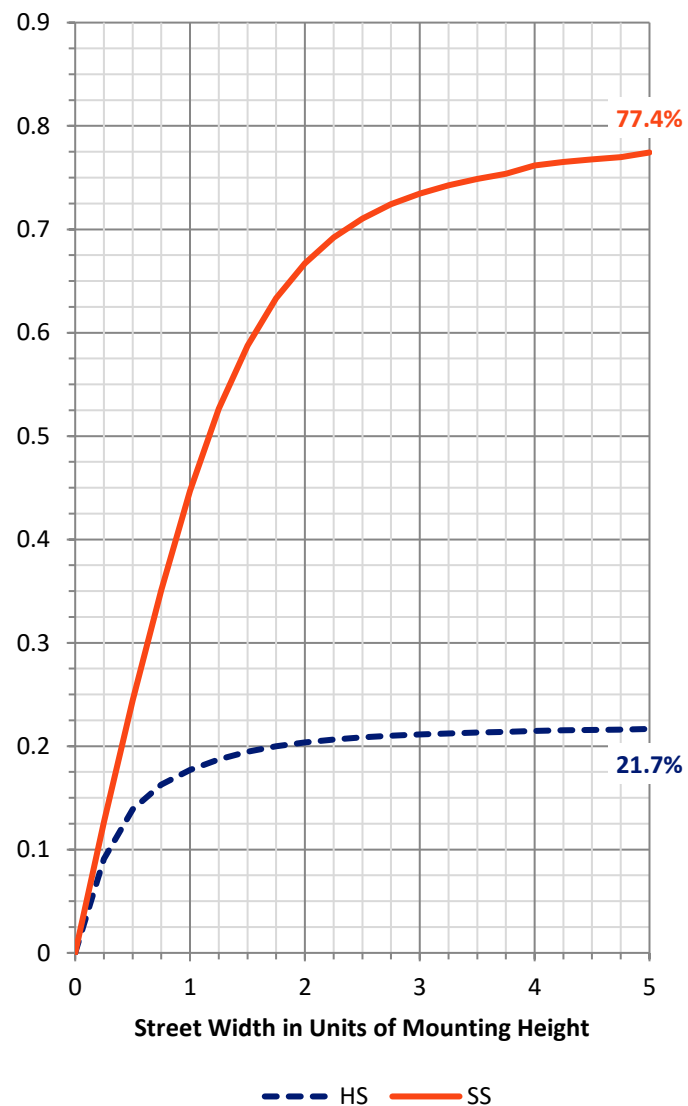
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5118.6   | 0.0    | 5118.6  |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 18281.4  | 0.0    | 18281.4 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 23400.0  | 0.0    | 23400.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 497.7   | 2.1       |
| 10°-20°   | 1320.4  | 5.6       |
| 20°-30°   | 2281.1  | 9.7       |
| 30°-40°   | 2651.0  | 11.3      |
| 40°-50°   | 3698.7  | 15.8      |
| 50°-60°   | 5018.7  | 21.4      |
| 60°-70°   | 4774.7  | 20.4      |
| 70°-80°   | 2579.4  | 11.0      |
| 80°-90°   | 578.1   | 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°    | 23400.0 | 100.0     |
| 0°-180°   | 23400.0 | 100.0     |

**Coefficient of Utilization**



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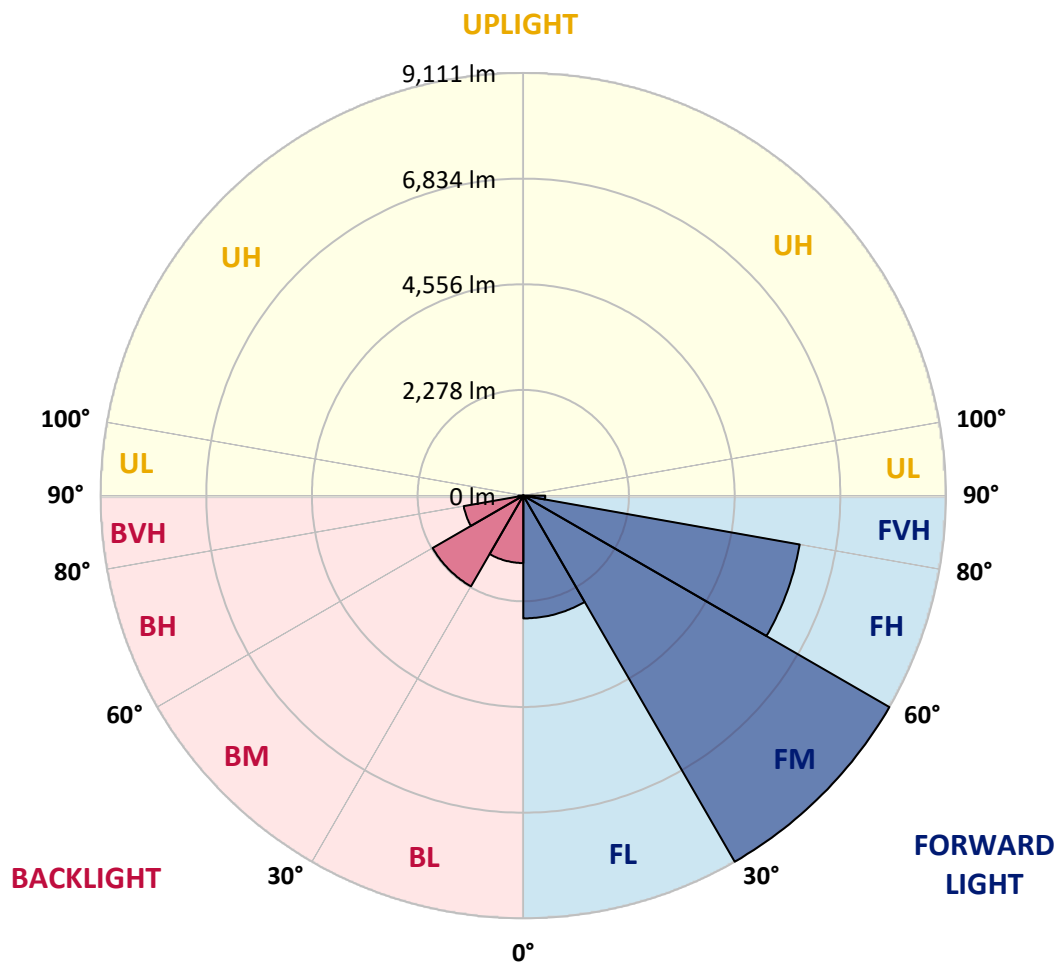
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2646.6 | 11.3      |                         |      |         |
| FM   | (30°-60°)   | 9111.5 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 6050.8 | 25.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 472.5  | 2.0       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1452.7 | 6.2       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2257.0 | 9.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1303.3 | 5.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 105.6  | 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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5872.5  | 5872.5  | 5872.5  | 5872.5 | 5872.5 | 5872.5 | 5872.5 | 5872.5 | 5872.5 | 5872.5 | 5872.5 |
| 2.5°  | 6524.0  | 6499.3  | 6429.8  | 6247.6 | 6063.9 | 5877.1 | 5733.5 | 5554.5 | 5367.7 | 5267.3 | 5139.2 |
| 5°    | 6613.5  | 6585.7  | 6422.1  | 6011.4 | 5639.4 | 5248.8 | 4937.0 | 4663.7 | 4552.6 | 4388.9 | 4257.7 |
| 7.5°  | 6403.5  | 6391.2  | 6145.7  | 5556.0 | 5046.6 | 4535.6 | 4182.1 | 3962.8 | 3763.7 | 3689.6 | 3705.0 |
| 10°   | 6212.1  | 6162.7  | 5855.5  | 5085.2 | 4490.8 | 4075.5 | 3822.4 | 3607.8 | 3467.3 | 3430.2 | 3438.0 |
| 12.5° | 6053.1  | 5986.7  | 5623.9  | 4768.7 | 4248.4 | 3916.5 | 3593.9 | 3370.0 | 3241.9 | 3277.4 | 3397.8 |
| 15°   | 6020.7  | 5931.1  | 5526.7  | 4660.6 | 4115.7 | 3688.1 | 3334.5 | 3076.7 | 2981.0 | 3058.2 | 3251.2 |
| 17.5° | 6230.6  | 6117.9  | 5693.4  | 4696.1 | 3989.1 | 3454.9 | 3021.2 | 2726.3 | 2646.0 | 2769.5 | 3021.2 |
| 20°   | 6905.3  | 6738.5  | 6213.7  | 4901.5 | 3976.7 | 3339.2 | 2839.0 | 2542.6 | 2576.5 | 2811.2 | 3073.6 |
| 22.5° | 8152.6  | 7902.5  | 7124.5  | 5200.9 | 4041.6 | 3309.8 | 2801.9 | 2647.6 | 2834.4 | 3033.5 | 3206.4 |
| 25°   | 8399.6  | 8203.6  | 7288.1  | 5268.9 | 4027.7 | 3289.8 | 2906.9 | 2984.1 | 3192.5 | 3291.3 | 3231.1 |
| 27.5° | 8538.6  | 8314.7  | 7277.3  | 4932.3 | 3601.6 | 2984.1 | 2778.8 | 2906.9 | 2959.4 | 2863.7 | 2700.0 |
| 30°   | 8862.8  | 8629.7  | 7461.0  | 4578.8 | 2965.6 | 2213.8 | 1940.5 | 1888.0 | 1923.5 | 1942.1 | 1883.4 |
| 32.5° | 9308.9  | 9078.9  | 7806.8  | 4347.2 | 2564.2 | 1830.9 | 1562.3 | 1488.2 | 1471.2 | 1451.1 | 1428.0 |
| 35°   | 9886.3  | 9532.8  | 8146.5  | 4199.0 | 2399.0 | 1693.5 | 1446.5 | 1389.4 | 1366.2 | 1338.4 | 1313.7 |
| 37.5° | 10472.9 | 10102.4 | 8575.6  | 4043.1 | 2289.4 | 1597.8 | 1369.3 | 1343.1 | 1302.9 | 1273.6 | 1238.1 |
| 40°   | 11096.6 | 10681.3 | 8966.2  | 3907.3 | 2182.9 | 1536.0 | 1313.7 | 1310.7 | 1258.2 | 1224.2 | 1182.5 |
| 42.5° | 11636.9 | 11209.3 | 9315.1  | 3823.9 | 2101.1 | 1471.2 | 1279.8 | 1289.0 | 1235.0 | 1184.1 | 1130.0 |
| 45°   | 12066.1 | 11646.2 | 9637.7  | 3823.9 | 2034.7 | 1406.4 | 1273.6 | 1267.4 | 1213.4 | 1150.1 | 1088.4 |
| 47.5° | 12442.8 | 12009.0 | 9952.7  | 3921.2 | 1993.0 | 1352.3 | 1239.6 | 1250.5 | 1194.9 | 1114.6 | 1054.4 |
| 50°   | 12734.5 | 12351.7 | 10377.2 | 4072.5 | 1951.3 | 1309.1 | 1196.4 | 1255.1 | 1179.4 | 1096.1 | 1026.6 |
| 52.5° | 13106.6 | 12763.9 | 10888.2 | 4279.3 | 1915.8 | 1261.3 | 1157.8 | 1255.1 | 1177.9 | 1097.6 | 1022.0 |
| 55°   | 13622.2 | 13261.0 | 11504.1 | 4450.7 | 1858.7 | 1216.5 | 1123.9 | 1219.6 | 1173.3 | 1089.9 | 1009.6 |
| 57.5° | 13983.4 | 13713.3 | 11939.5 | 4564.9 | 1776.9 | 1159.4 | 1093.0 | 1185.6 | 1153.2 | 1060.6 | 972.6  |
| 58°   | 14000.4 | 13736.4 | 12002.8 | 4591.2 | 1756.8 | 1148.6 | 1085.3 | 1170.2 | 1143.9 | 1048.2 | 960.2  |
| 60°   | 13805.9 | 13579.0 | 12015.1 | 4554.1 | 1642.6 | 1094.5 | 1045.1 | 1106.9 | 1094.5 | 975.7  | 893.8  |
| 62.5° | 13098.9 | 12856.5 | 11516.5 | 4253.1 | 1491.3 | 1028.1 | 983.4  | 1022.0 | 994.2  | 873.8  | 798.1  |
| 65°   | 12093.9 | 11647.7 | 10491.4 | 3780.7 | 1383.2 | 957.1  | 900.0  | 903.1  | 873.8  | 787.3  | 720.9  |
| 67.5° | 10755.4 | 10256.8 | 8882.8  | 3186.3 | 1301.4 | 878.4  | 801.2  | 793.5  | 758.0  | 702.4  | 648.4  |
| 70°   | 9108.2  | 8767.0  | 7218.6  | 2592.0 | 1210.3 | 792.0  | 690.1  | 685.4  | 663.8  | 622.1  | 574.3  |
| 72.5° | 7382.3  | 6948.5  | 5829.3  | 2074.8 | 1099.2 | 708.6  | 586.6  | 595.9  | 568.1  | 538.8  | 495.5  |
| 75°   | 5448.0  | 5163.9  | 4506.3  | 1664.2 | 949.4  | 617.5  | 489.4  | 492.5  | 480.1  | 449.2  | 415.3  |
| 77.5° | 3587.7  | 3502.8  | 3223.4  | 1093.0 | 730.2  | 490.9  | 399.8  | 402.9  | 393.7  | 365.9  | 330.4  |
| 80°   | 2414.5  | 2357.3  | 2184.4  | 704.0  | 487.8  | 355.1  | 308.8  | 311.8  | 310.3  | 281.0  | 233.1  |
| 82.5° | 1488.2  | 1463.5  | 1407.9  | 475.5  | 338.1  | 254.7  | 203.8  | 213.0  | 230.0  | 197.6  | 159.0  |
| 85°   | 702.4   | 704.0   | 850.6   | 259.4  | 199.1  | 163.6  | 111.2  | 118.9  | 118.9  | 118.9  | 89.5   |
| 87.5° | 91.1    | 95.7    | 117.3   | 109.6  | 72.6   | 61.8   | 40.1   | 34.0   | 29.3   | 38.6   | 27.8   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5872.5 | 5872.5 | 5872.5 | 5872.5 | 5872.5 | 5872.5 | 5872.5 | 5872.5 | 5872.5 | 5872.5 | 5872.5 |
| 2.5°  | 5094.4 | 5063.6 | 4997.2 | 4981.7 | 4972.5 | 4998.7 | 4929.2 | 4947.8 | 4916.9 | 5003.3 | 4989.5 |
| 5°    | 4265.4 | 4268.5 | 4322.5 | 4358.1 | 4370.4 | 4358.1 | 4311.7 | 4231.5 | 4169.7 | 4145.0 | 4151.2 |
| 7.5°  | 3675.7 | 3729.7 | 3822.4 | 3925.8 | 4020.0 | 4047.8 | 4021.5 | 3868.7 | 3702.0 | 3597.0 | 3563.0 |
| 10°   | 3479.6 | 3552.2 | 3658.7 | 3740.5 | 3823.9 | 3890.3 | 3904.2 | 3785.3 | 3587.7 | 3339.2 | 3241.9 |
| 12.5° | 3490.5 | 3589.3 | 3691.1 | 3717.4 | 3709.7 | 3735.9 | 3723.6 | 3703.5 | 3573.8 | 3257.3 | 3095.3 |
| 15°   | 3388.6 | 3505.9 | 3576.9 | 3563.0 | 3538.3 | 3515.2 | 3482.7 | 3431.8 | 3385.5 | 3163.2 | 2984.1 |
| 17.5° | 3153.9 | 3274.3 | 3333.0 | 3337.6 | 3337.6 | 3331.4 | 3252.7 | 3234.2 | 3228.0 | 3120.0 | 3010.3 |
| 20°   | 3197.1 | 3263.5 | 3237.3 | 3194.1 | 3206.4 | 3248.1 | 3201.8 | 3192.5 | 3228.0 | 3275.9 | 3255.8 |
| 22.5° | 3221.8 | 3198.7 | 3001.1 | 2809.7 | 2766.4 | 2896.1 | 2922.3 | 3025.8 | 3169.4 | 3342.3 | 3454.9 |
| 25°   | 3069.0 | 2882.2 | 2528.7 | 2312.6 | 2190.6 | 2311.0 | 2468.5 | 2659.9 | 2874.5 | 3096.8 | 3228.0 |
| 27.5° | 2565.7 | 2423.7 | 2170.5 | 1976.0 | 1869.5 | 1888.0 | 2022.3 | 2196.8 | 2395.9 | 2545.7 | 2641.4 |
| 30°   | 1932.8 | 1869.5 | 1738.3 | 1671.9 | 1607.1 | 1591.6 | 1648.7 | 1715.1 | 1803.1 | 1821.6 | 1846.3 |
| 32.5° | 1423.4 | 1414.1 | 1421.8 | 1400.2 | 1387.8 | 1386.3 | 1369.3 | 1384.8 | 1394.0 | 1404.8 | 1383.2 |
| 35°   | 1287.5 | 1275.2 | 1253.5 | 1247.4 | 1239.6 | 1242.7 | 1235.0 | 1227.3 | 1233.5 | 1242.7 | 1248.9 |
| 37.5° | 1218.0 | 1199.5 | 1168.6 | 1157.8 | 1157.8 | 1162.5 | 1150.1 | 1147.0 | 1157.8 | 1187.2 | 1202.6 |
| 40°   | 1164.0 | 1142.4 | 1106.9 | 1093.0 | 1102.2 | 1114.6 | 1097.6 | 1091.4 | 1117.7 | 1148.6 | 1173.3 |
| 42.5° | 1113.1 | 1096.1 | 1062.1 | 1046.7 | 1054.4 | 1077.5 | 1052.8 | 1048.2 | 1082.2 | 1116.1 | 1145.5 |
| 45°   | 1069.8 | 1052.8 | 1022.0 | 1014.3 | 1017.3 | 1039.0 | 1022.0 | 1022.0 | 1054.4 | 1091.4 | 1117.7 |
| 47.5° | 1035.9 | 1014.3 | 994.2  | 988.0  | 991.1  | 1003.4 | 1000.4 | 1000.4 | 1031.2 | 1069.8 | 1096.1 |
| 50°   | 1001.9 | 983.4  | 957.1  | 960.2  | 967.9  | 984.9  | 983.4  | 988.0  | 1018.9 | 1066.7 | 1094.5 |
| 52.5° | 986.5  | 958.7  | 929.3  | 932.4  | 955.6  | 975.7  | 969.5  | 974.1  | 1009.6 | 1099.2 | 1139.3 |
| 55°   | 969.5  | 932.4  | 898.5  | 903.1  | 929.3  | 958.7  | 951.0  | 957.1  | 998.8  | 1120.8 | 1176.3 |
| 57.5° | 937.1  | 893.8  | 856.8  | 859.9  | 898.5  | 929.3  | 917.0  | 924.7  | 974.1  | 1097.6 | 1156.3 |
| 58°   | 923.2  | 886.1  | 850.6  | 852.2  | 889.2  | 923.2  | 909.3  | 915.5  | 966.4  | 1091.4 | 1147.0 |
| 60°   | 864.5  | 842.9  | 812.0  | 813.6  | 849.1  | 878.4  | 870.7  | 876.9  | 926.3  | 1046.7 | 1088.4 |
| 62.5° | 784.2  | 771.9  | 764.2  | 764.2  | 785.8  | 813.6  | 821.3  | 829.0  | 873.8  | 946.3  | 983.4  |
| 65°   | 697.8  | 697.8  | 699.3  | 699.3  | 713.2  | 748.7  | 753.4  | 773.4  | 815.1  | 850.6  | 878.4  |
| 67.5° | 639.1  | 636.0  | 639.1  | 631.4  | 637.6  | 659.2  | 682.3  | 700.9  | 744.1  | 768.8  | 778.1  |
| 70°   | 563.5  | 561.9  | 563.5  | 552.7  | 560.4  | 578.9  | 594.3  | 625.2  | 670.0  | 688.5  | 693.2  |
| 72.5° | 489.4  | 489.4  | 492.5  | 484.7  | 484.7  | 504.8  | 515.6  | 549.6  | 591.3  | 602.1  | 603.6  |
| 75°   | 412.2  | 416.8  | 416.8  | 406.0  | 409.1  | 421.4  | 435.3  | 463.1  | 501.7  | 509.4  | 509.4  |
| 77.5° | 327.3  | 344.3  | 344.3  | 333.5  | 338.1  | 339.6  | 358.2  | 372.0  | 401.4  | 404.5  | 392.1  |
| 80°   | 237.7  | 254.7  | 268.6  | 259.4  | 267.1  | 257.8  | 268.6  | 277.9  | 307.2  | 293.3  | 273.2  |
| 82.5° | 169.8  | 182.2  | 193.0  | 194.5  | 186.8  | 169.8  | 183.7  | 185.3  | 199.1  | 180.6  | 169.8  |
| 85°   | 94.2   | 105.0  | 118.9  | 112.7  | 100.3  | 89.5   | 94.2   | 97.3   | 95.7   | 91.1   | 84.9   |
| 87.5° | 24.7   | 26.2   | 29.3   | 21.6   | 20.1   | 17.0   | 23.2   | 23.2   | 26.2   | 27.8   | 26.2   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°    | 270°    | 275°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 5872.5 | 5872.5 | 5872.5 | 5872.5 | 5872.5 | 5872.5 | 5872.5 | 5872.5 | 5872.5  | 5872.5  | 5872.5  |
| 2.5°  | 5000.3 | 5068.2 | 5214.8 | 5326.0 | 5461.8 | 5627.0 | 5821.5 | 6017.6 | 6229.1  | 6295.5  | 6388.1  |
| 5°    | 4137.3 | 4307.1 | 4378.1 | 4580.4 | 4781.0 | 5082.1 | 5403.2 | 5775.2 | 6182.8  | 6378.8  | 6567.2  |
| 7.5°  | 3535.2 | 3626.3 | 3700.4 | 3848.6 | 4089.4 | 4455.3 | 4858.2 | 5322.9 | 5900.3  | 6185.9  | 6462.2  |
| 10°   | 3211.0 | 3220.3 | 3311.4 | 3495.1 | 3705.0 | 4027.7 | 4409.0 | 4929.2 | 5573.0  | 5920.3  | 6244.5  |
| 12.5° | 2996.4 | 2956.3 | 3055.1 | 3246.5 | 3484.3 | 3782.2 | 4132.7 | 4628.2 | 5336.8  | 5693.4  | 6085.5  |
| 15°   | 2808.1 | 2744.8 | 2818.9 | 3015.0 | 3249.6 | 3600.1 | 3976.7 | 4501.6 | 5244.2  | 5659.4  | 6094.8  |
| 17.5° | 2812.7 | 2638.3 | 2664.5 | 2829.7 | 3062.8 | 3419.4 | 3876.4 | 4497.0 | 5384.7  | 5863.2  | 6378.8  |
| 20°   | 3160.1 | 2880.7 | 2761.8 | 2792.7 | 3018.1 | 3407.1 | 3922.7 | 4713.1 | 5846.2  | 6544.0  | 7095.1  |
| 22.5° | 3501.3 | 3333.0 | 3141.6 | 3078.3 | 3201.8 | 3609.3 | 4217.6 | 5224.1 | 6849.7  | 7901.0  | 8896.7  |
| 25°   | 3382.4 | 3526.0 | 3478.1 | 3388.6 | 3416.4 | 3754.4 | 4418.3 | 5644.0 | 7629.3  | 8813.4  | 9748.9  |
| 27.5° | 2706.2 | 2967.1 | 3019.6 | 3018.1 | 3028.9 | 3306.7 | 3973.7 | 5361.5 | 7726.5  | 8987.8  | 9881.6  |
| 30°   | 1901.9 | 1925.1 | 1952.9 | 2006.9 | 2056.3 | 2304.8 | 3109.1 | 4706.9 | 7683.3  | 9066.5  | 9961.9  |
| 32.5° | 1372.4 | 1403.3 | 1441.9 | 1516.0 | 1633.3 | 1949.8 | 2720.1 | 4498.5 | 7911.8  | 9392.3  | 10196.6 |
| 35°   | 1255.1 | 1290.6 | 1327.6 | 1412.5 | 1523.7 | 1817.0 | 2565.7 | 4412.1 | 8286.9  | 9920.2  | 10618.0 |
| 37.5° | 1218.0 | 1258.2 | 1290.6 | 1352.3 | 1441.9 | 1721.3 | 2425.3 | 4353.4 | 8671.3  | 10479.1 | 11183.0 |
| 40°   | 1191.8 | 1238.1 | 1264.3 | 1313.7 | 1375.5 | 1633.3 | 2300.2 | 4307.1 | 9043.4  | 10990.1 | 11636.9 |
| 42.5° | 1168.6 | 1216.5 | 1250.5 | 1286.0 | 1336.9 | 1554.6 | 2189.1 | 4260.8 | 9366.0  | 11485.6 | 12089.2 |
| 45°   | 1140.8 | 1201.0 | 1244.3 | 1272.1 | 1316.8 | 1488.2 | 2104.2 | 4223.7 | 9733.4  | 11925.6 | 12546.2 |
| 47.5° | 1117.7 | 1184.1 | 1238.1 | 1270.5 | 1287.5 | 1441.9 | 2036.2 | 4274.7 | 10175.0 | 12385.6 | 12970.7 |
| 50°   | 1119.2 | 1182.5 | 1250.5 | 1301.4 | 1256.6 | 1403.3 | 1994.5 | 4476.9 | 10749.2 | 12932.1 | 13305.7 |
| 52.5° | 1168.6 | 1245.8 | 1299.9 | 1312.2 | 1213.4 | 1357.0 | 1972.9 | 4830.4 | 11428.5 | 13415.3 | 13643.8 |
| 55°   | 1224.2 | 1304.5 | 1363.1 | 1355.4 | 1190.2 | 1298.3 | 1968.3 | 5207.1 | 12172.6 | 13978.8 | 14083.8 |
| 57.5° | 1204.1 | 1321.5 | 1411.0 | 1370.9 | 1191.8 | 1241.2 | 1948.2 | 5511.2 | 12794.7 | 14400.2 | 14519.1 |
| 58°   | 1198.0 | 1315.3 | 1417.2 | 1367.8 | 1187.2 | 1224.2 | 1943.6 | 5537.5 | 12881.2 | 14429.6 | 14580.9 |
| 60°   | 1137.8 | 1261.3 | 1412.5 | 1344.6 | 1160.9 | 1177.9 | 1892.7 | 5622.4 | 12858.0 | 14278.3 | 14617.9 |
| 62.5° | 1028.1 | 1130.0 | 1306.0 | 1231.9 | 1080.6 | 1116.1 | 1778.4 | 5517.4 | 12231.3 | 13549.6 | 14076.1 |
| 65°   | 904.6  | 980.3  | 1097.6 | 1083.7 | 966.4  | 1052.8 | 1622.5 | 5102.1 | 10976.2 | 12367.1 | 12921.3 |
| 67.5° | 812.0  | 873.8  | 947.9  | 927.8  | 869.1  | 967.9  | 1454.2 | 4399.7 | 9568.3  | 10946.8 | 11644.6 |
| 70°   | 717.9  | 765.7  | 802.8  | 788.9  | 770.3  | 884.6  | 1304.5 | 3570.7 | 8219.0  | 9597.6  | 10273.8 |
| 72.5° | 622.1  | 666.9  | 697.8  | 677.7  | 666.9  | 796.6  | 1182.5 | 2771.1 | 6491.5  | 7918.0  | 8787.1  |
| 75°   | 520.2  | 565.0  | 586.6  | 563.5  | 557.3  | 702.4  | 1001.9 | 2070.2 | 4870.6  | 6104.1  | 6854.3  |
| 77.5° | 402.9  | 450.8  | 478.6  | 470.8  | 473.9  | 577.4  | 808.9  | 1417.2 | 3482.7  | 4160.4  | 4950.9  |
| 80°   | 282.5  | 335.0  | 353.5  | 345.8  | 367.4  | 440.0  | 571.2  | 900.0  | 2402.1  | 2700.0  | 3257.3  |
| 82.5° | 174.4  | 223.8  | 226.9  | 234.7  | 250.1  | 325.7  | 430.7  | 548.0  | 1508.3  | 1559.2  | 1963.7  |
| 85°   | 88.0   | 106.5  | 114.2  | 126.6  | 140.5  | 199.1  | 245.5  | 339.6  | 971.0   | 734.8   | 1097.6  |
| 87.5° | 29.3   | 30.9   | 37.1   | 46.3   | 57.1   | 81.8   | 105.0  | 138.9  | 240.8   | 132.8   | 339.6   |
| 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°    | 5872.5  | 5872.5  | 5872.5  | 5872.5  | 5872.5  | 5872.5  | 5872.5  | 5872.5  | 5872.5  | 5872.5  |
| 2.5°  | 6574.9  | 6706.1  | 6801.8  | 6889.8  | 6804.9  | 6797.2  | 6713.8  | 6579.5  | 6524.0  | 6524.0  |
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| 12.5° | 6936.1  | 7808.4  | 8532.4  | 8907.5  | 8804.1  | 8185.0  | 7397.7  | 6528.6  | 6150.4  | 6053.1  |
| 15°   | 6985.5  | 7814.5  | 8456.8  | 8844.2  | 8910.6  | 8378.0  | 7527.4  | 6585.7  | 6124.1  | 6020.7  |
| 17.5° | 7297.4  | 7931.9  | 8348.7  | 8662.1  | 8895.2  | 8640.5  | 7896.4  | 6859.0  | 6358.8  | 6230.6  |
| 20°   | 7948.9  | 8212.8  | 8410.4  | 8652.8  | 9027.9  | 9176.1  | 8651.3  | 7609.2  | 7018.0  | 6905.3  |
| 22.5° | 9835.3  | 9787.5  | 9383.0  | 9378.4  | 9921.8  | 10516.1 | 10480.6 | 9134.5  | 8245.3  | 8152.6  |
| 25°   | 10542.4 | 10320.1 | 9735.0  | 9593.0  | 9832.2  | 10749.2 | 10616.5 | 9446.3  | 8625.0  | 8399.6  |
| 27.5° | 10266.0 | 9714.9  | 9330.5  | 9298.1  | 9219.4  | 10085.4 | 10405.0 | 9572.9  | 8757.8  | 8538.6  |
| 30°   | 10249.1 | 9438.6  | 8889.0  | 8953.8  | 9029.5  | 9856.9  | 10522.3 | 9969.6  | 9097.4  | 8862.8  |
| 32.5° | 10290.7 | 9477.2  | 8921.4  | 8933.8  | 9159.2  | 9890.9  | 10652.0 | 10401.9 | 9543.6  | 9308.9  |
| 35°   | 10459.0 | 9696.4  | 9128.3  | 9099.0  | 9450.9  | 10113.2 | 10872.7 | 11081.2 | 10153.3 | 9886.3  |
| 37.5° | 10730.7 | 10133.3 | 9506.5  | 9498.8  | 10009.8 | 10514.6 | 11147.5 | 11766.6 | 10760.0 | 10472.9 |
| 40°   | 11130.6 | 10644.3 | 10179.6 | 10137.9 | 10769.3 | 11167.6 | 11504.1 | 12496.8 | 11465.6 | 11096.6 |
| 42.5° | 11613.8 | 11257.1 | 11067.3 | 11232.4 | 11839.1 | 11900.9 | 12059.9 | 13171.4 | 12066.1 | 11636.9 |
| 45°   | 12061.4 | 12044.5 | 12308.4 | 12746.9 | 13100.4 | 12729.9 | 12640.4 | 13623.7 | 12532.3 | 12066.1 |
| 47.5° | 12594.0 | 13054.1 | 13850.7 | 14492.9 | 14863.4 | 13694.7 | 13135.9 | 13918.6 | 12871.9 | 12442.8 |
| 50°   | 13134.4 | 14262.9 | 15534.9 | 16430.3 | 16509.0 | 14743.0 | 13477.1 | 14196.5 | 13180.7 | 12734.5 |
| 52.5° | 13702.5 | 15227.7 | 16921.2 | 17961.7 | 17808.9 | 15655.3 | 13807.4 | 14384.8 | 13498.7 | 13106.6 |
| 55°   | 14196.5 | 15819.0 | 17696.2 | 18695.0 | 18471.2 | 16211.1 | 14164.1 | 14588.6 | 13952.6 | 13622.2 |
| 57.5° | 14472.8 | 15868.4 | 17503.2 | 18375.4 | 18133.1 | 16103.0 | 14327.7 | 14739.9 | 14242.8 | 13983.4 |
| 58°   | 14512.9 | 15802.0 | 17331.9 | 18190.2 | 17943.2 | 16011.9 | 14326.1 | 14733.7 | 14261.3 | 14000.4 |
| 60°   | 14477.4 | 15371.3 | 16694.3 | 17458.4 | 17199.1 | 15440.7 | 14267.5 | 14617.9 | 14026.7 | 13805.9 |
| 62.5° | 14148.6 | 14624.1 | 15593.6 | 16149.3 | 16075.2 | 14548.5 | 14026.7 | 14181.0 | 13311.9 | 13098.9 |
| 65°   | 13716.4 | 13605.2 | 14184.1 | 14577.8 | 14633.4 | 13880.0 | 13787.4 | 13236.2 | 12394.9 | 12093.9 |
| 67.5° | 13191.5 | 12450.5 | 12448.9 | 12672.8 | 12765.4 | 12851.9 | 13288.7 | 12209.6 | 11073.4 | 10755.4 |
| 70°   | 12300.7 | 10670.5 | 10179.6 | 10443.6 | 10366.4 | 11096.6 | 12398.0 | 10767.8 | 9480.3  | 9108.2  |
| 72.5° | 10667.4 | 8467.6  | 7681.8  | 8021.4  | 7826.9  | 8702.2  | 10848.0 | 8861.2  | 7839.2  | 7382.3  |
| 75°   | 8646.6  | 6334.1  | 5523.6  | 5835.4  | 5715.0  | 6601.1  | 9026.4  | 6436.0  | 5622.4  | 5448.0  |
| 77.5° | 6713.8  | 4589.6  | 4118.8  | 4075.5  | 4165.1  | 4912.3  | 6621.2  | 4345.7  | 3706.6  | 3587.7  |
| 80°   | 4313.3  | 3285.1  | 3312.9  | 3257.3  | 3303.7  | 3096.8  | 4020.0  | 2772.6  | 2510.2  | 2414.5  |
| 82.5° | 2839.0  | 2289.4  | 2729.4  | 2519.4  | 2392.8  | 2082.5  | 2636.8  | 1815.5  | 1540.7  | 1488.2  |
| 85°   | 1934.3  | 1685.8  | 1534.5  | 1173.3  | 1381.7  | 1604.0  | 1977.6  | 977.2   | 775.0   | 702.4   |
| 87.5° | 873.8   | 586.6   | 430.7   | 265.5   | 419.9   | 484.7   | 960.2   | 114.2   | 88.0    | 91.1    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

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