

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: P533932

Luminaire Tested: **GLAN-SA9B-827-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533932  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9B-827-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28242 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 364  
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



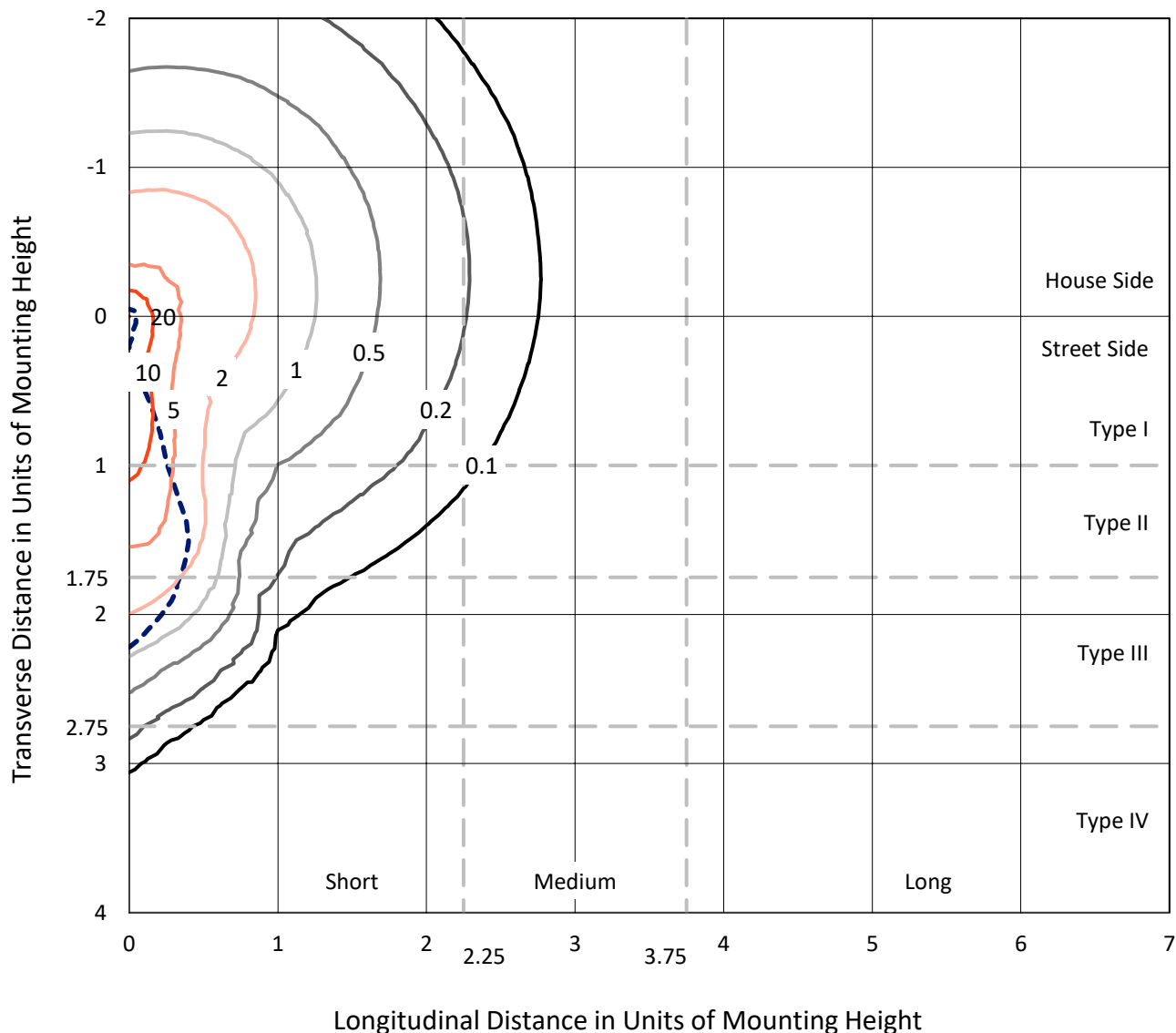
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

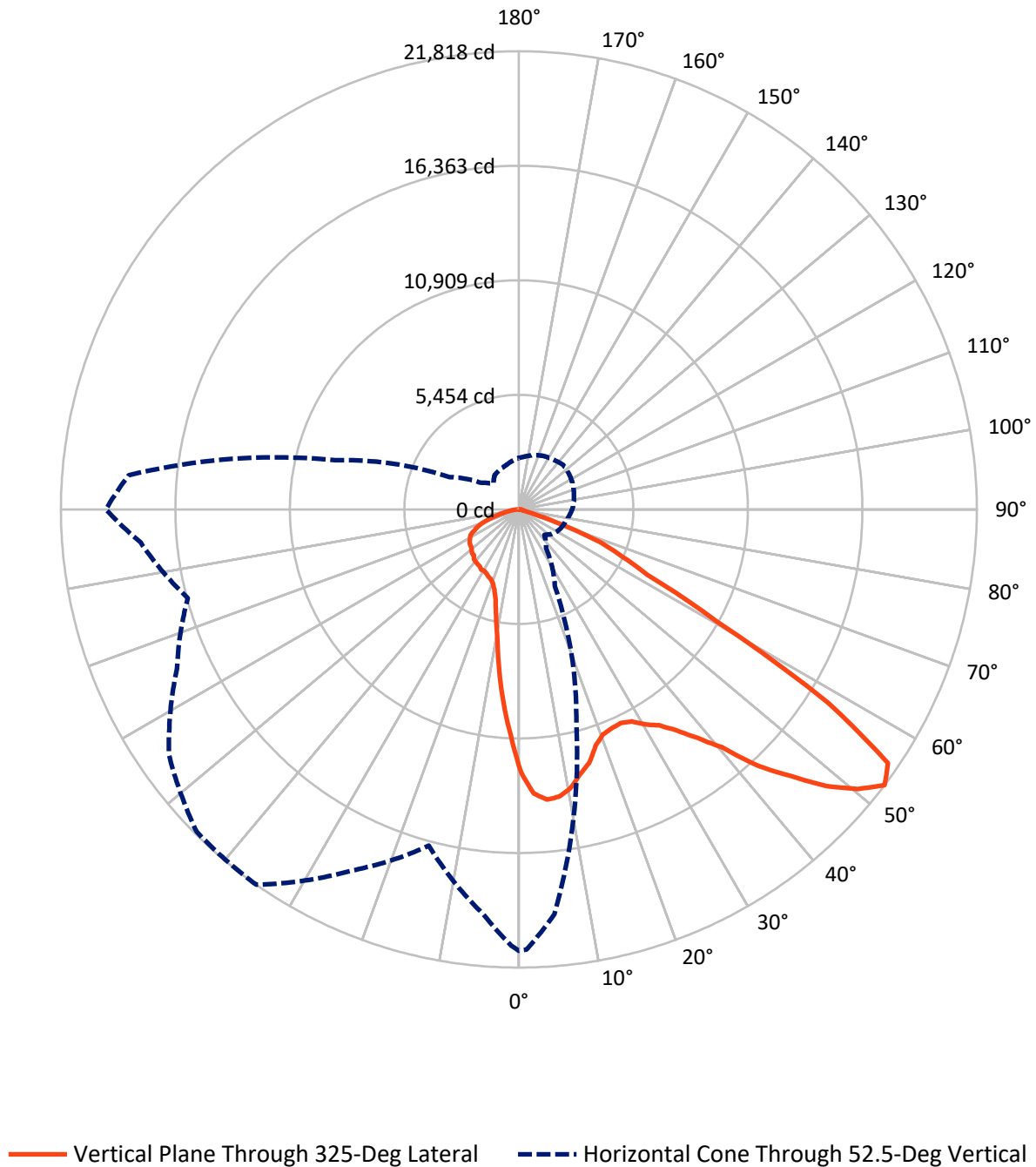


Based on 25 foot mounting height. Maximum calculated value = 20.1 fc

Type III - Short - N/A

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## Luminous Intensity Polar Plot



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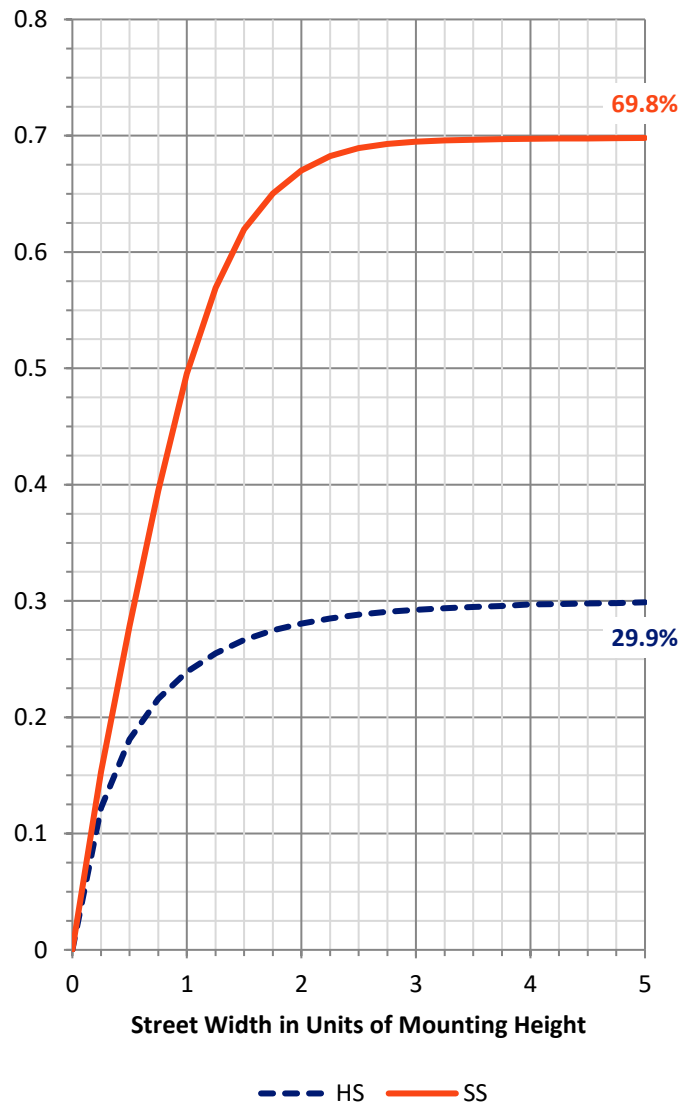
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8513.8   | 0.0    | 8513.8  |
|                    | % Fixture | 30.1     | 0.0    | 30.1    |
| <b>Street Side</b> | Lumens    | 19728.2  | 0.0    | 19728.2 |
|                    | % Fixture | 69.9     | 0.0    | 69.9    |
| <b>Total</b>       | Lumens    | 28242.0  | 0.0    | 28242.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 956.2   | 3.4       |
| 10°-20°   | 2073.0  | 7.3       |
| 20°-30°   | 3132.1  | 11.1      |
| 30°-40°   | 4526.0  | 16.0      |
| 40°-50°   | 6023.3  | 21.3      |
| 50°-60°   | 6737.2  | 23.9      |
| 60°-70°   | 3797.0  | 13.4      |
| 70°-80°   | 846.4   | 3.0       |
| 80°-90°   | 150.7   | 0.5       |
| 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°    | 28242.0 | 100.0     |
| 0°-180°   | 28242.0 | 100.0     |

**Coefficient of Utilization**



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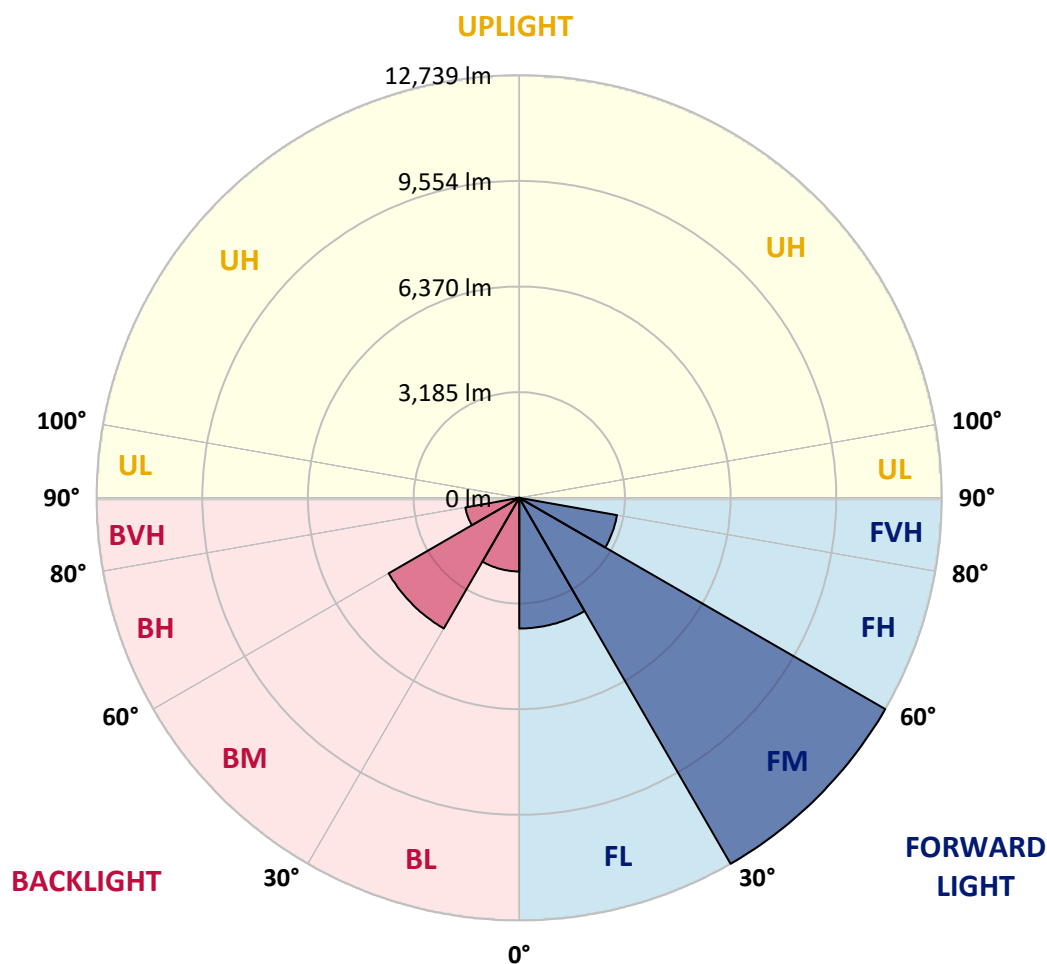
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3941.1  | 14.0      |                         |      |         |
| FM   | (30°-60°)   | 12739.3 | 45.1      |                         |      |         |
| FH   | (60°-80°)   | 2993.2  | 10.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 54.6    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 2220.2  | 7.9       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4547.2  | 16.1      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1650.2  | 5.8       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 96.1    | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 |
| 2.5°  | 12742.7 | 12947.4 | 12726.4 | 12333.4 | 12055.0 | 11801.3 | 11535.2 | 11482.0 | 11134.0 | 11072.6 | 10818.8 |
| 5°    | 12018.2 | 11973.2 | 11703.0 | 11187.2 | 10618.3 | 10102.5 | 9721.8  | 9353.4  | 9103.7  | 8813.1  | 8792.6  |
| 7.5°  | 11138.1 | 10876.1 | 10720.6 | 9938.8  | 9234.7  | 8424.2  | 8076.3  | 7515.5  | 7339.5  | 7077.5  | 6942.4  |
| 10°   | 10352.2 | 10159.8 | 9795.5  | 9013.7  | 8031.2  | 7495.0  | 7122.5  | 6819.6  | 6614.9  | 6344.8  | 6005.0  |
| 12.5° | 9963.3  | 9885.5  | 9476.2  | 8264.6  | 7535.9  | 6962.9  | 6700.9  | 6406.2  | 6058.2  | 5624.3  | 5456.5  |
| 15°   | 10032.9 | 9770.9  | 9459.8  | 8121.3  | 7114.3  | 6561.7  | 6144.2  | 5775.8  | 5329.6  | 4916.2  | 4674.7  |
| 17.5° | 10552.8 | 10352.2 | 9730.0  | 8211.3  | 6954.7  | 6156.5  | 5399.2  | 4854.8  | 4453.6  | 4081.1  | 3913.3  |
| 20°   | 11576.1 | 11285.5 | 10585.5 | 8326.0  | 6610.8  | 5591.6  | 4723.8  | 4052.5  | 3622.7  | 3426.2  | 3368.9  |
| 22.5° | 12710.0 | 12538.1 | 11420.6 | 8583.8  | 6336.6  | 5067.6  | 4007.4  | 3336.1  | 3176.5  | 3123.3  | 3229.7  |
| 25°   | 14089.5 | 13643.3 | 12718.2 | 9005.5  | 6123.7  | 4621.4  | 3401.6  | 3029.1  | 2947.2  | 3000.5  | 3123.3  |
| 27.5° | 15137.4 | 15018.7 | 13626.9 | 9402.5  | 5833.1  | 4085.2  | 3061.9  | 2816.3  | 2840.8  | 2894.0  | 3008.6  |
| 30°   | 16381.8 | 15780.0 | 14507.0 | 9676.8  | 5571.1  | 3716.8  | 2824.4  | 2758.9  | 2783.5  | 2873.6  | 2930.9  |
| 32.5° | 17130.9 | 16905.7 | 15059.6 | 10090.2 | 5268.2  | 3397.5  | 2640.2  | 2578.8  | 2615.7  | 2750.8  | 2885.8  |
| 35°   | 18084.6 | 17638.4 | 15743.2 | 10196.6 | 5055.3  | 3270.6  | 2509.3  | 2464.2  | 2550.2  | 2644.3  | 2795.8  |
| 37.5° | 19198.0 | 18891.0 | 16688.8 | 10123.0 | 4940.7  | 3139.6  | 2398.7  | 2378.3  | 2439.7  | 2570.7  | 2746.7  |
| 40°   | 19857.1 | 19762.9 | 17184.1 | 10168.0 | 4760.6  | 3025.0  | 2271.8  | 2296.4  | 2423.3  | 2525.6  | 2697.5  |
| 42.5° | 20491.5 | 19877.5 | 17916.8 | 10151.6 | 4646.0  | 2869.5  | 2284.1  | 2255.5  | 2353.7  | 2472.4  | 2636.1  |
| 45°   | 20630.7 | 20020.8 | 18088.7 | 10037.0 | 4506.8  | 2718.0  | 2190.0  | 2202.2  | 2321.0  | 2468.3  | 2574.7  |
| 47.5° | 20540.7 | 20090.4 | 18408.0 | 10004.3 | 4375.8  | 2611.6  | 2050.8  | 2198.2  | 2267.7  | 2386.4  | 2537.9  |
| 50°   | 20479.3 | 20454.7 | 18678.2 | 10159.8 | 4199.8  | 2443.8  | 1883.0  | 2144.9  | 2214.5  | 2333.2  | 2497.0  |
| 52.5° | 21019.6 | 20966.4 | 19353.6 | 10569.1 | 4060.6  | 2263.6  | 1711.0  | 2009.9  | 2177.7  | 2292.3  | 2451.9  |
| 55°   | 21347.1 | 21113.7 | 20512.0 | 11072.6 | 3827.3  | 2026.2  | 1592.3  | 1842.0  | 2087.6  | 2190.0  | 2353.7  |
| 57.5° | 19202.1 | 19042.5 | 18555.4 | 10335.8 | 3434.4  | 1715.1  | 1445.0  | 1670.1  | 1964.8  | 2124.5  | 2292.3  |
| 60°   | 15976.5 | 15726.8 | 14478.3 | 8784.4  | 2533.8  | 1334.4  | 1354.9  | 1535.0  | 1932.1  | 1993.5  | 2190.0  |
| 62.5° | 15063.7 | 14445.6 | 12746.8 | 7069.3  | 1944.4  | 1146.2  | 1215.7  | 1412.2  | 1760.2  | 1862.5  | 2059.0  |
| 65°   | 11952.7 | 11494.3 | 9120.1  | 5104.5  | 1301.7  | 994.7   | 1109.3  | 1273.0  | 1518.6  | 1719.2  | 1899.3  |
| 67.5° | 7482.7  | 7044.7  | 4867.0  | 2415.1  | 908.7   | 851.4   | 990.6   | 1162.5  | 1363.1  | 1543.2  | 1743.8  |
| 70°   | 3909.2  | 3430.3  | 2247.3  | 871.9   | 626.3   | 695.9   | 826.9   | 990.6   | 1187.1  | 1334.4  | 1490.0  |
| 72.5° | 1457.2  | 1183.0  | 732.7   | 376.6   | 433.9   | 532.1   | 671.3   | 790.0   | 929.2   | 1109.3  | 1195.3  |
| 75°   | 225.1   | 192.4   | 188.3   | 229.2   | 294.7   | 384.8   | 478.9   | 597.6   | 720.4   | 835.1   | 892.4   |
| 77.5° | 106.4   | 102.3   | 114.6   | 151.5   | 196.5   | 274.3   | 347.9   | 462.6   | 560.8   | 634.5   | 667.2   |
| 80°   | 69.6    | 65.5    | 73.7    | 102.3   | 147.4   | 204.7   | 278.4   | 356.1   | 446.2   | 507.6   | 499.4   |
| 82.5° | 40.9    | 45.0    | 45.0    | 69.6    | 102.3   | 147.4   | 200.6   | 270.2   | 331.6   | 384.8   | 352.0   |
| 85°   | 24.6    | 20.5    | 20.5    | 40.9    | 69.6    | 118.7   | 167.8   | 114.6   | 118.7   | 118.7   | 135.1   |
| 87.5° | 8.2     | 8.2     | 8.2     | 4.1     | 8.2     | 8.2     | 12.3    | 20.5    | 24.6    | 28.7    | 36.8    |
| 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°    | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 |
| 2.5°  | 10810.7 | 10937.5 | 10892.5 | 10732.9 | 10855.7 | 10876.1 | 10794.3 | 11076.7 | 11129.9 | 11044.0 | 11068.5 |
| 5°    | 8764.0  | 8796.7  | 8870.4  | 9025.9  | 9136.5  | 9267.4  | 9267.4  | 9275.6  | 9165.1  | 9443.5  | 9361.6  |
| 7.5°  | 6827.8  | 6848.2  | 6934.2  | 7265.8  | 7359.9  | 7609.6  | 7716.0  | 7642.4  | 7421.3  | 7327.2  | 7405.0  |
| 10°   | 5894.5  | 5775.8  | 5747.1  | 5788.1  | 6000.9  | 6107.3  | 6197.4  | 6172.8  | 6136.0  | 6062.3  | 5980.4  |
| 12.5° | 5272.3  | 5186.3  | 5116.7  | 5018.5  | 5030.8  | 5133.1  | 5202.7  | 5145.4  | 5161.8  | 5178.1  | 5202.7  |
| 15°   | 4596.9  | 4535.5  | 4498.6  | 4351.3  | 4334.9  | 4404.5  | 4429.1  | 4461.8  | 4523.2  | 4527.3  | 4498.6  |
| 17.5° | 3880.5  | 3827.3  | 3909.2  | 3991.1  | 3933.8  | 3937.8  | 3982.9  | 4011.5  | 3995.2  | 3921.5  | 3884.6  |
| 20°   | 3389.3  | 3446.6  | 3528.5  | 3606.3  | 3667.7  | 3704.5  | 3720.9  | 3675.9  | 3622.7  | 3471.2  | 3467.1  |
| 22.5° | 3246.1  | 3319.7  | 3389.3  | 3508.0  | 3565.3  | 3659.5  | 3573.5  | 3471.2  | 3397.5  | 3323.8  | 3237.9  |
| 25°   | 3139.6  | 3201.0  | 3340.2  | 3385.2  | 3495.8  | 3573.5  | 3512.1  | 3409.8  | 3282.9  | 3176.5  | 3111.0  |
| 27.5° | 3061.9  | 3131.4  | 3221.5  | 3344.3  | 3430.3  | 3475.3  | 3413.9  | 3373.0  | 3242.0  | 3115.1  | 3020.9  |
| 30°   | 3012.7  | 3086.4  | 3250.2  | 3352.5  | 3426.2  | 3463.0  | 3356.6  | 3307.5  | 3213.3  | 3106.9  | 3025.0  |
| 32.5° | 2980.0  | 3045.5  | 3184.7  | 3315.6  | 3364.8  | 3364.8  | 3381.1  | 3323.8  | 3192.8  | 3012.7  | 2943.2  |
| 35°   | 2873.6  | 2963.6  | 3078.2  | 3229.7  | 3319.7  | 3373.0  | 3291.1  | 3225.6  | 3139.6  | 2955.4  | 2828.5  |
| 37.5° | 2812.2  | 2873.6  | 3020.9  | 3164.2  | 3242.0  | 3299.3  | 3266.5  | 3151.9  | 3037.3  | 2885.8  | 2783.5  |
| 40°   | 2746.7  | 2844.9  | 2975.9  | 3111.0  | 3196.9  | 3254.2  | 3229.7  | 3094.6  | 2955.4  | 2812.2  | 2742.6  |
| 42.5° | 2701.6  | 2767.1  | 2902.2  | 3053.7  | 3156.0  | 3266.5  | 3192.8  | 3025.0  | 2926.8  | 2730.3  | 2652.5  |
| 45°   | 2664.8  | 2771.2  | 2914.5  | 2975.9  | 3082.3  | 3196.9  | 3066.0  | 2963.6  | 2849.0  | 2705.7  | 2640.2  |
| 47.5° | 2619.8  | 2718.0  | 2812.2  | 2975.9  | 3025.0  | 3078.2  | 3053.7  | 2889.9  | 2791.7  | 2636.1  | 2591.1  |
| 50°   | 2603.4  | 2640.2  | 2812.2  | 2902.2  | 2971.8  | 3025.0  | 2959.5  | 2836.7  | 2742.6  | 2582.9  | 2484.7  |
| 52.5° | 2537.9  | 2607.5  | 2718.0  | 2836.7  | 2922.7  | 2988.2  | 2881.7  | 2804.0  | 2677.1  | 2509.3  | 2447.8  |
| 55°   | 2456.0  | 2497.0  | 2693.5  | 2816.3  | 2861.3  | 2906.3  | 2865.4  | 2738.5  | 2607.5  | 2435.6  | 2374.2  |
| 57.5° | 2349.6  | 2443.8  | 2603.4  | 2775.3  | 2832.6  | 2857.2  | 2791.7  | 2689.4  | 2525.6  | 2374.2  | 2275.9  |
| 60°   | 2239.1  | 2337.3  | 2513.3  | 2652.5  | 2709.8  | 2799.9  | 2701.6  | 2640.2  | 2451.9  | 2284.1  | 2177.7  |
| 62.5° | 2128.6  | 2239.1  | 2370.1  | 2546.1  | 2595.2  | 2632.1  | 2607.5  | 2521.5  | 2370.1  | 2181.8  | 2050.8  |
| 65°   | 1997.6  | 2079.4  | 2243.2  | 2333.2  | 2366.0  | 2451.9  | 2366.0  | 2333.2  | 2198.2  | 2018.0  | 1907.5  |
| 67.5° | 1801.1  | 1870.7  | 2013.9  | 2099.9  | 2124.5  | 2161.3  | 2157.2  | 2120.4  | 1968.9  | 1846.1  | 1747.9  |
| 70°   | 1576.0  | 1637.4  | 1727.4  | 1829.7  | 1842.0  | 1887.1  | 1846.1  | 1837.9  | 1739.7  | 1571.9  | 1518.6  |
| 72.5° | 1264.9  | 1322.2  | 1440.9  | 1485.9  | 1490.0  | 1506.4  | 1485.9  | 1457.2  | 1432.7  | 1256.7  | 1203.5  |
| 75°   | 970.1   | 1002.9  | 1060.2  | 1101.1  | 1101.1  | 1121.6  | 1109.3  | 1080.7  | 1015.2  | 904.6   | 851.4   |
| 77.5° | 675.4   | 708.2   | 781.8   | 806.4   | 802.3   | 810.5   | 773.7   | 745.0   | 646.8   | 589.4   | 544.4   |
| 80°   | 491.2   | 511.7   | 548.5   | 564.9   | 569.0   | 581.3   | 536.2   | 511.7   | 454.4   | 388.9   | 368.4   |
| 82.5° | 356.1   | 368.4   | 372.5   | 393.0   | 393.0   | 372.5   | 360.2   | 335.7   | 294.7   | 253.8   | 237.4   |
| 85°   | 147.4   | 151.5   | 155.5   | 180.1   | 184.2   | 221.0   | 204.7   | 192.4   | 167.8   | 143.3   | 131.0   |
| 87.5° | 36.8    | 40.9    | 53.2    | 45.0    | 53.2    | 53.2    | 57.3    | 65.5    | 65.5    | 53.2    | 53.2    |
| 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°    | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 |
| 2.5°  | 11162.7 | 11195.4 | 11613.0 | 11666.2 | 11870.8 | 12079.6 | 12501.2 | 12804.1 | 13049.7 | 13209.4 | 13254.4 |
| 5°    | 9447.6  | 9656.3  | 9848.7  | 10159.8 | 10442.2 | 10843.4 | 11306.0 | 11879.0 | 12599.5 | 12967.9 | 13115.2 |
| 7.5°  | 7396.8  | 7642.4  | 7920.7  | 8223.6  | 8637.1  | 9357.5  | 9975.6  | 10638.7 | 11559.7 | 11940.4 | 12517.6 |
| 10°   | 6037.8  | 6312.0  | 6680.4  | 6913.7  | 7413.1  | 8100.8  | 8821.3  | 9586.7  | 10466.8 | 11015.3 | 11682.5 |
| 12.5° | 5337.8  | 5562.9  | 5902.7  | 6393.9  | 6766.4  | 7212.6  | 7748.8  | 8714.8  | 9975.6  | 10495.5 | 10953.9 |
| 15°   | 4564.1  | 4813.8  | 5206.8  | 5751.2  | 6197.4  | 6729.5  | 7331.3  | 8383.3  | 9725.9  | 10528.2 | 10917.1 |
| 17.5° | 3925.6  | 4105.7  | 4519.1  | 4989.8  | 5501.5  | 6082.8  | 6946.5  | 8366.9  | 9987.9  | 11015.3 | 11649.8 |
| 20°   | 3483.5  | 3508.0  | 3733.2  | 4134.3  | 4830.2  | 5587.5  | 6709.1  | 8285.0  | 10827.0 | 11854.5 | 12656.8 |
| 22.5° | 3205.1  | 3180.6  | 3184.7  | 3524.4  | 4011.5  | 5100.4  | 6336.6  | 8563.4  | 11780.8 | 13188.9 | 13729.2 |
| 25°   | 3066.0  | 3000.5  | 2959.5  | 3033.2  | 3475.3  | 4523.2  | 6054.1  | 8931.8  | 12808.2 | 14290.0 | 14953.2 |
| 27.5° | 2992.3  | 2877.7  | 2795.8  | 2808.1  | 3131.4  | 4232.6  | 5878.1  | 9091.4  | 13827.5 | 15825.1 | 16058.4 |
| 30°   | 2963.6  | 2820.3  | 2701.6  | 2660.7  | 2873.6  | 3827.3  | 5501.5  | 9365.7  | 14740.3 | 16668.3 | 16868.9 |
| 32.5° | 2861.3  | 2685.3  | 2570.7  | 2533.8  | 2619.8  | 3471.2  | 5231.4  | 9562.2  | 15546.7 | 17585.2 | 17515.6 |
| 35°   | 2742.6  | 2595.2  | 2451.9  | 2382.4  | 2443.8  | 3242.0  | 5014.4  | 9468.0  | 16496.4 | 18297.5 | 18260.6 |
| 37.5° | 2730.3  | 2537.9  | 2419.2  | 2304.6  | 2300.5  | 2959.5  | 4719.7  | 9558.1  | 17102.2 | 19574.6 | 19071.1 |
| 40°   | 2623.9  | 2501.1  | 2345.5  | 2251.4  | 2198.2  | 2816.3  | 4433.1  | 9345.2  | 17990.5 | 20090.4 | 19595.1 |
| 42.5° | 2628.0  | 2443.8  | 2308.7  | 2198.2  | 2144.9  | 2607.5  | 4236.7  | 9287.9  | 18301.6 | 20929.5 | 19840.7 |
| 45°   | 2562.5  | 2382.4  | 2267.7  | 2136.8  | 2108.1  | 2447.8  | 4048.4  | 9021.8  | 18850.1 | 20970.5 | 19533.7 |
| 47.5° | 2497.0  | 2337.3  | 2214.5  | 2059.0  | 1993.5  | 2390.5  | 3901.0  | 8800.8  | 18563.5 | 20585.7 | 19108.0 |
| 50°   | 2451.9  | 2267.7  | 2153.1  | 2042.6  | 1858.4  | 2292.3  | 3708.6  | 8747.6  | 18162.4 | 20065.8 | 18317.9 |
| 52.5° | 2374.2  | 2210.4  | 2091.7  | 2005.8  | 1711.0  | 2202.2  | 3634.9  | 9058.7  | 18653.6 | 19676.9 | 18088.7 |
| 55°   | 2300.5  | 2132.7  | 1981.2  | 1813.4  | 1588.2  | 1964.8  | 3430.3  | 9349.3  | 19369.9 | 20573.4 | 19128.4 |
| 57.5° | 2222.7  | 2063.1  | 1899.3  | 1698.8  | 1469.5  | 1719.2  | 3217.4  | 9402.5  | 18027.3 | 19013.8 | 18158.3 |
| 60°   | 2120.4  | 1915.7  | 1792.9  | 1530.9  | 1342.6  | 1424.5  | 2550.2  | 8289.1  | 13983.0 | 15878.3 | 15906.9 |
| 62.5° | 2005.8  | 1784.7  | 1678.3  | 1371.3  | 1211.6  | 1228.0  | 2079.4  | 6967.0  | 11342.8 | 13143.9 | 13925.7 |
| 65°   | 1854.3  | 1641.5  | 1514.6  | 1269.0  | 1117.5  | 1064.3  | 1522.7  | 5104.5  | 8616.6  | 10663.3 | 11551.6 |
| 67.5° | 1657.8  | 1457.2  | 1297.6  | 1105.2  | 998.8   | 912.8   | 1039.7  | 2873.6  | 5088.1  | 7159.3  | 7429.5  |
| 70°   | 1449.1  | 1277.1  | 1109.3  | 949.7   | 831.0   | 769.6   | 761.4   | 1273.0  | 2431.5  | 3851.9  | 4384.0  |
| 72.5° | 1142.1  | 1019.3  | 884.2   | 765.5   | 687.7   | 597.6   | 544.4   | 528.0   | 822.8   | 1567.8  | 2165.4  |
| 75°   | 818.7   | 716.3   | 638.6   | 560.8   | 503.5   | 454.4   | 413.4   | 376.6   | 343.8   | 393.0   | 540.3   |
| 77.5° | 515.8   | 478.9   | 417.5   | 397.1   | 364.3   | 352.0   | 335.7   | 315.2   | 290.6   | 274.3   | 274.3   |
| 80°   | 347.9   | 323.4   | 302.9   | 298.8   | 286.5   | 282.4   | 286.5   | 266.1   | 241.5   | 221.0   | 229.2   |
| 82.5° | 233.3   | 229.2   | 225.1   | 221.0   | 225.1   | 229.2   | 237.4   | 233.3   | 212.9   | 200.6   | 204.7   |
| 85°   | 139.2   | 147.4   | 155.5   | 163.7   | 180.1   | 159.6   | 131.0   | 110.5   | 98.2    | 90.1    | 86.0    |
| 87.5° | 53.2    | 73.7    | 65.5    | 61.4    | 65.5    | 61.4    | 57.3    | 53.2    | 45.0    | 40.9    | 40.9    |
| 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°    | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 | 12534.0 |
| 2.5°  | 13553.2 | 13635.1 | 13704.7 | 13688.3 | 13545.0 | 13352.7 | 13274.9 | 12877.8 | 12796.0 | 12742.7 |
| 5°    | 13737.4 | 14212.3 | 14314.6 | 14253.2 | 13880.7 | 13410.0 | 12951.5 | 12370.2 | 12030.5 | 12018.2 |
| 7.5°  | 13397.7 | 13983.0 | 14167.2 | 14306.4 | 13811.1 | 12992.4 | 12206.5 | 11334.6 | 11121.8 | 11138.1 |
| 10°   | 12534.0 | 13467.3 | 13921.6 | 14064.9 | 13495.9 | 12787.8 | 11698.9 | 10814.7 | 10360.4 | 10352.2 |
| 12.5° | 12055.0 | 12787.8 | 12914.7 | 13115.2 | 12947.4 | 12231.1 | 11404.2 | 10413.6 | 9971.5  | 9963.3  |
| 15°   | 11629.3 | 12112.4 | 12149.2 | 12431.6 | 12521.7 | 12038.7 | 11482.0 | 10425.9 | 10069.7 | 10032.9 |
| 17.5° | 12001.8 | 11666.2 | 11527.0 | 11563.8 | 11829.9 | 12005.9 | 11932.2 | 11121.8 | 10757.4 | 10552.8 |
| 20°   | 12251.5 | 11502.4 | 11080.8 | 11121.8 | 11436.9 | 12079.6 | 12603.6 | 12128.7 | 11551.6 | 11576.1 |
| 22.5° | 12918.8 | 11527.0 | 10868.0 | 10822.9 | 11322.3 | 12464.4 | 13360.8 | 13401.8 | 12845.1 | 12710.0 |
| 25°   | 13917.5 | 11809.4 | 10802.5 | 10790.2 | 11269.1 | 12877.8 | 14245.0 | 14908.1 | 14339.2 | 14089.5 |
| 27.5° | 14719.8 | 12251.5 | 11007.1 | 11048.1 | 11436.9 | 13213.5 | 14998.2 | 15878.3 | 15444.4 | 15137.4 |
| 30°   | 15423.9 | 12710.0 | 11293.7 | 11105.4 | 11887.2 | 13389.5 | 15321.6 | 16983.5 | 16635.6 | 16381.8 |
| 32.5° | 15714.5 | 13360.8 | 11748.0 | 11436.9 | 12259.7 | 13602.3 | 15992.9 | 18056.0 | 17757.1 | 17130.9 |
| 35°   | 16205.7 | 13725.2 | 11993.6 | 11969.1 | 12910.6 | 14114.0 | 16308.1 | 18764.1 | 18641.3 | 18084.6 |
| 37.5° | 16598.7 | 14093.6 | 12865.5 | 12595.4 | 13802.9 | 14973.6 | 16815.7 | 19742.4 | 19460.0 | 19198.0 |
| 40°   | 16901.6 | 14752.6 | 13680.1 | 14036.2 | 14900.0 | 15755.5 | 17282.3 | 19803.8 | 20618.4 | 19857.1 |
| 42.5° | 16623.3 | 15342.0 | 15018.7 | 15870.1 | 16688.8 | 16647.8 | 17335.5 | 20278.7 | 20888.6 | 20491.5 |
| 45°   | 16553.7 | 16340.8 | 17134.9 | 17908.6 | 18096.9 | 17388.7 | 16954.8 | 19754.7 | 20806.7 | 20630.7 |
| 47.5° | 16385.9 | 17323.2 | 18706.8 | 19967.6 | 19681.0 | 17884.0 | 16500.5 | 19660.6 | 20855.8 | 20540.7 |
| 50°   | 16328.5 | 17536.1 | 19869.3 | 21097.4 | 20925.4 | 18313.8 | 16287.6 | 19054.8 | 20507.9 | 20479.3 |
| 52.5° | 16324.5 | 17974.1 | 20352.4 | 21711.4 | 21817.8 | 18993.3 | 16578.2 | 19361.8 | 20778.1 | 21019.6 |
| 55°   | 16508.7 | 17834.9 | 20291.0 | 21371.6 | 21330.7 | 18690.4 | 16611.0 | 19566.4 | 21109.6 | 21347.1 |
| 57.5° | 15571.3 | 15976.5 | 16746.1 | 17601.6 | 17380.6 | 15481.2 | 14834.5 | 18088.7 | 19374.0 | 19202.1 |
| 60°   | 13446.8 | 12177.8 | 11310.0 | 11269.1 | 10839.3 | 10245.8 | 12141.0 | 16144.3 | 16144.3 | 15976.5 |
| 62.5° | 11776.7 | 7994.4  | 6868.7  | 6549.4  | 6856.4  | 7540.0  | 11711.2 | 15702.3 | 15256.1 | 15063.7 |
| 65°   | 10299.0 | 6103.3  | 4965.3  | 4875.2  | 5407.4  | 6438.9  | 10589.6 | 13377.2 | 12591.3 | 11952.7 |
| 67.5° | 6627.2  | 4470.0  | 3692.2  | 3532.6  | 4175.3  | 4727.9  | 7048.8  | 8227.7  | 7732.4  | 7482.7  |
| 70°   | 4273.5  | 2910.4  | 2054.9  | 1928.0  | 2177.7  | 2914.5  | 4502.7  | 4797.5  | 4077.0  | 3909.2  |
| 72.5° | 2022.1  | 1256.7  | 720.4   | 593.5   | 667.2   | 1113.4  | 1780.6  | 1915.7  | 1592.3  | 1457.2  |
| 75°   | 642.7   | 462.6   | 294.7   | 253.8   | 241.5   | 286.5   | 409.3   | 315.2   | 229.2   | 225.1   |
| 77.5° | 286.5   | 274.3   | 233.3   | 196.5   | 171.9   | 143.3   | 118.7   | 98.2    | 102.3   | 106.4   |
| 80°   | 237.4   | 216.9   | 192.4   | 171.9   | 143.3   | 110.5   | 86.0    | 65.5    | 65.5    | 69.6    |
| 82.5° | 208.8   | 188.3   | 167.8   | 143.3   | 122.8   | 90.1    | 65.5    | 45.0    | 40.9    | 40.9    |
| 85°   | 90.1    | 106.4   | 114.6   | 122.8   | 98.2    | 73.7    | 45.0    | 28.7    | 24.6    | 24.6    |
| 87.5° | 36.8    | 32.7    | 28.7    | 24.6    | 20.5    | 20.5    | 16.4    | 12.3    | 8.2     | 8.2     |
| 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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