

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: P531462

Luminaire Tested: **GLAN-SA6D-730-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531462  
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-SA6D-730-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1200mA 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: 31115 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G3

Input Watts (W): 368  
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

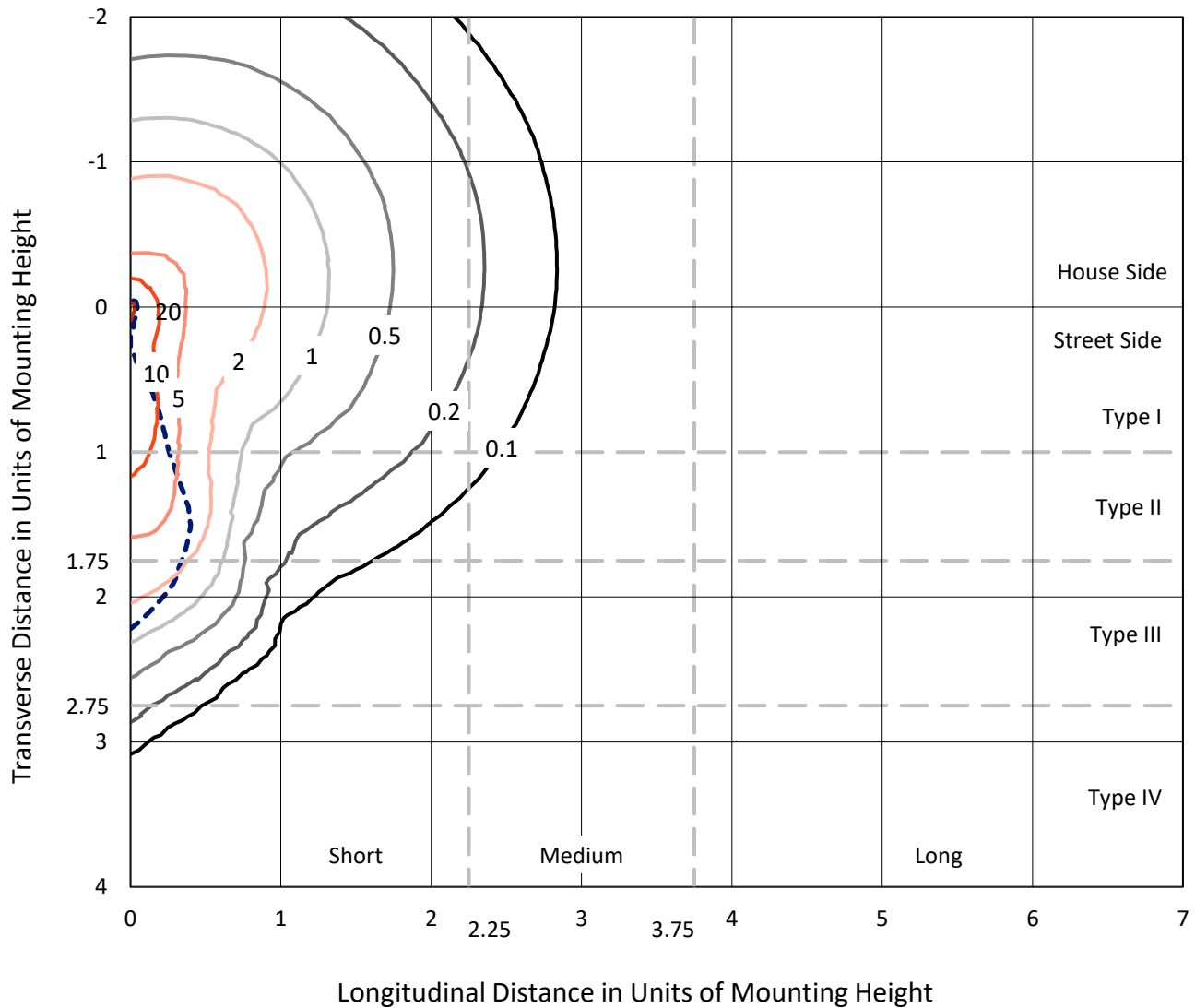


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## Iso-Footcandle Lines of Horizontal Illumination

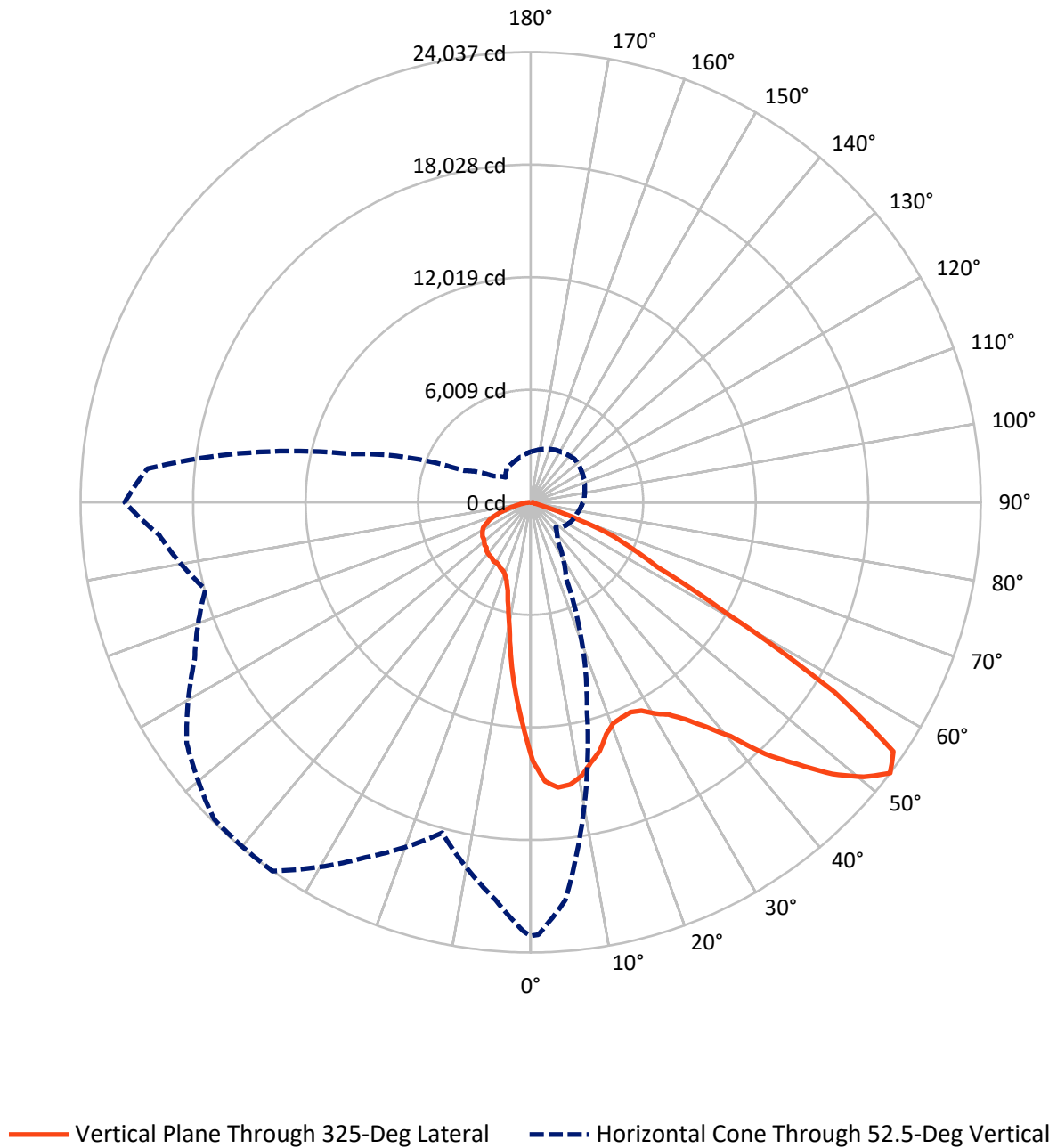
× Max cd  
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.1 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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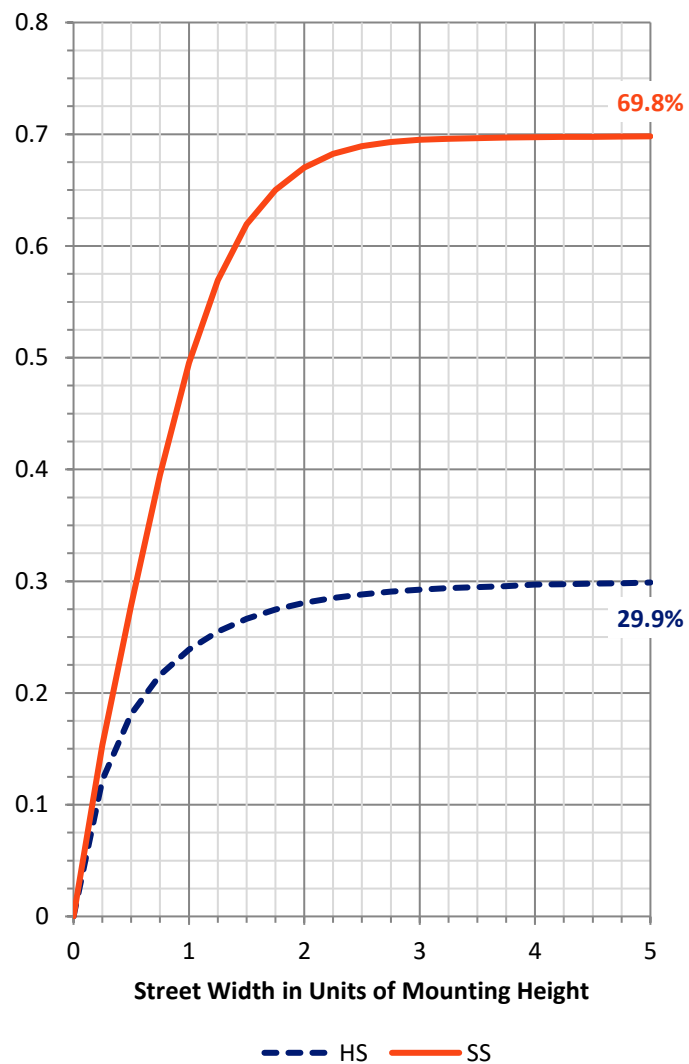
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9379.9   | 0.0    | 9379.9  |
|                    | % Fixture | 30.1     | 0.0    | 30.1    |
| <b>Street Side</b> | Lumens    | 21735.1  | 0.0    | 21735.1 |
|                    | % Fixture | 69.9     | 0.0    | 69.9    |
| <b>Total</b>       | Lumens    | 31115.0  | 0.0    | 31115.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1053.5  | 3.4       |
| 10°-20°   | 2283.9  | 7.3       |
| 20°-30°   | 3450.7  | 11.1      |
| 30°-40°   | 4986.4  | 16.0      |
| 40°-50°   | 6636.0  | 21.3      |
| 50°-60°   | 7422.6  | 23.9      |
| 60°-70°   | 4183.3  | 13.4      |
| 70°-80°   | 932.5   | 3.0       |
| 80°-90°   | 166.1   | 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°    | 31115.0 | 100.0     |
| 0°-180°   | 31115.0 | 100.0     |

**Coefficient of Utilization**



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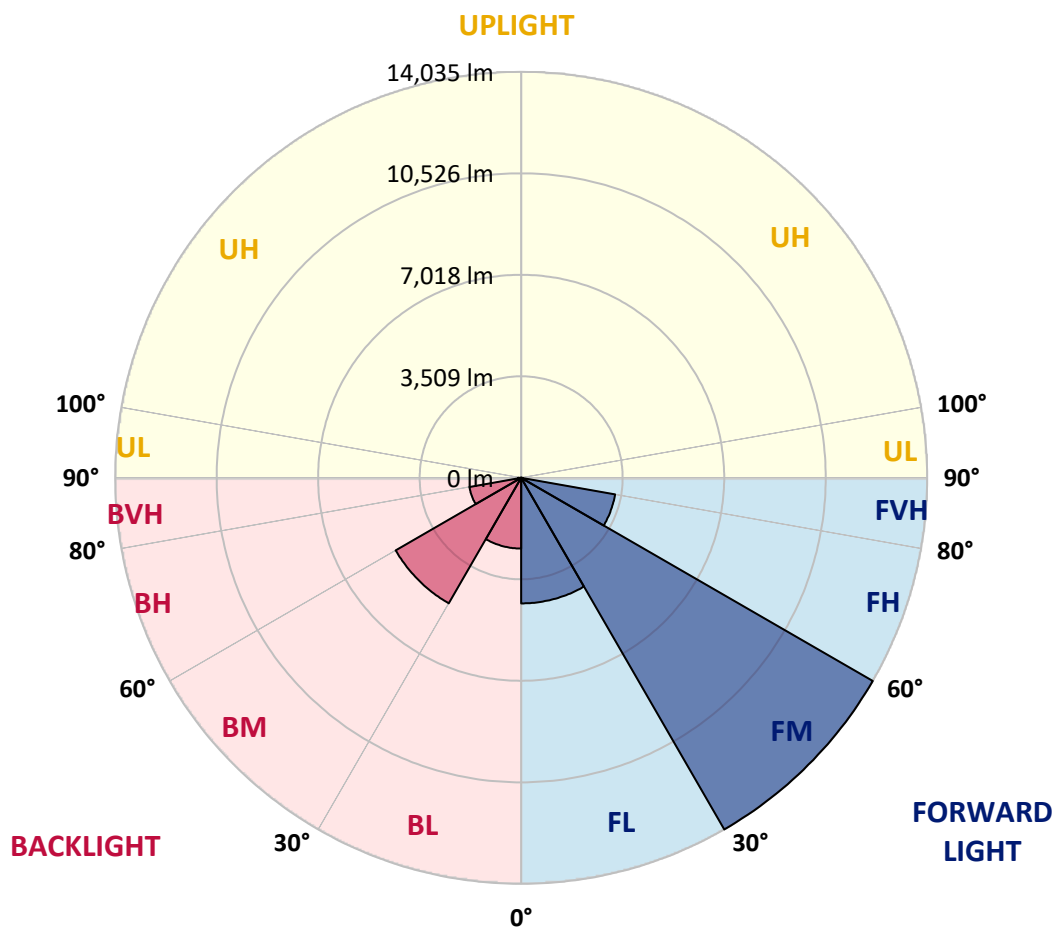
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4342.0  | 14.0      |                         |      |         |
| FM   | (30°-60°)   | 14035.2 | 45.1      |                         |      |         |
| FH   | (60°-80°)   | 3297.7  | 10.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 60.1    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 2446.0  | 7.9       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5009.8  | 16.1      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 1818.1  | 5.8       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 105.9   | 0.3       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 |
| 2.5°  | 14039.0 | 14264.5 | 14021.0 | 13588.0 | 13281.4 | 13001.8 | 12708.6 | 12650.0 | 12266.7 | 12199.0 | 11919.4 |
| 5°    | 13240.8 | 13191.2 | 12893.5 | 12325.3 | 11698.4 | 11130.2 | 10710.8 | 10304.9 | 10029.8 | 9709.6  | 9687.1  |
| 7.5°  | 12271.2 | 11982.6 | 11811.2 | 10949.8 | 10174.1 | 9281.2  | 8897.8  | 8280.0  | 8086.1  | 7797.5  | 7648.6  |
| 10°   | 11405.3 | 11193.3 | 10792.0 | 9930.6  | 8848.2  | 8257.5  | 7847.1  | 7513.3  | 7287.8  | 6990.2  | 6615.9  |
| 12.5° | 10976.9 | 10891.2 | 10440.2 | 9105.3  | 8302.6  | 7671.2  | 7382.6  | 7057.8  | 6674.5  | 6196.5  | 6011.6  |
| 15°   | 11053.5 | 10764.9 | 10422.2 | 8947.5  | 7838.0  | 7229.2  | 6769.2  | 6363.3  | 5871.8  | 5416.3  | 5150.2  |
| 17.5° | 11626.3 | 11405.3 | 10719.8 | 9046.7  | 7662.2  | 6782.7  | 5948.4  | 5348.6  | 4906.7  | 4496.3  | 4311.4  |
| 20°   | 12753.7 | 12433.5 | 11662.4 | 9172.9  | 7283.3  | 6160.4  | 5204.3  | 4464.7  | 3991.2  | 3774.7  | 3711.6  |
| 22.5° | 14002.9 | 13813.5 | 12582.4 | 9457.1  | 6981.2  | 5583.1  | 4415.1  | 3675.5  | 3499.6  | 3441.0  | 3558.2  |
| 25°   | 15522.8 | 15031.2 | 14012.0 | 9921.6  | 6746.7  | 5091.6  | 3747.6  | 3337.3  | 3247.1  | 3305.7  | 3441.0  |
| 27.5° | 16677.3 | 16546.5 | 15013.1 | 10359.0 | 6426.5  | 4500.8  | 3373.3  | 3102.7  | 3129.8  | 3188.4  | 3314.7  |
| 30°   | 18048.2 | 17385.3 | 15982.8 | 10661.2 | 6137.8  | 4094.9  | 3111.8  | 3039.6  | 3066.7  | 3165.9  | 3229.0  |
| 32.5° | 18873.5 | 18625.5 | 16591.6 | 11116.7 | 5804.1  | 3743.1  | 2908.8  | 2841.2  | 2881.8  | 3030.6  | 3179.4  |
| 35°   | 19924.3 | 19432.8 | 17344.7 | 11233.9 | 5569.6  | 3603.3  | 2764.5  | 2714.9  | 2809.6  | 2913.3  | 3080.2  |
| 37.5° | 21151.0 | 20812.8 | 18386.5 | 11152.8 | 5443.3  | 3459.0  | 2642.7  | 2620.2  | 2687.8  | 2832.2  | 3026.1  |
| 40°   | 21877.1 | 21773.3 | 18932.2 | 11202.4 | 5244.9  | 3332.7  | 2502.9  | 2530.0  | 2669.8  | 2782.6  | 2972.0  |
| 42.5° | 22576.1 | 21899.6 | 19739.4 | 11184.3 | 5118.6  | 3161.4  | 2516.5  | 2484.9  | 2593.1  | 2723.9  | 2904.3  |
| 45°   | 22729.4 | 22057.5 | 19928.8 | 11058.0 | 4965.3  | 2994.5  | 2412.7  | 2426.3  | 2557.1  | 2719.4  | 2836.7  |
| 47.5° | 22630.2 | 22134.1 | 20280.6 | 11022.0 | 4821.0  | 2877.3  | 2259.4  | 2421.8  | 2498.4  | 2629.2  | 2796.1  |
| 50°   | 22562.6 | 22535.5 | 20578.2 | 11193.3 | 4627.1  | 2692.4  | 2074.5  | 2363.1  | 2439.8  | 2570.6  | 2751.0  |
| 52.5° | 23157.9 | 23099.2 | 21322.4 | 11644.3 | 4473.7  | 2493.9  | 1885.1  | 2214.3  | 2399.2  | 2525.5  | 2701.4  |
| 55°   | 23518.6 | 23261.6 | 22598.6 | 12199.0 | 4216.7  | 2232.4  | 1754.3  | 2029.4  | 2300.0  | 2412.7  | 2593.1  |
| 57.5° | 21155.5 | 20979.6 | 20443.0 | 11387.3 | 3783.7  | 1889.6  | 1592.0  | 1840.0  | 2164.7  | 2340.6  | 2525.5  |
| 60°   | 17601.8 | 17326.7 | 15951.2 | 9678.0  | 2791.6  | 1470.2  | 1492.7  | 1691.2  | 2128.6  | 2196.3  | 2412.7  |
| 62.5° | 16596.1 | 15915.1 | 14043.5 | 7788.4  | 2142.2  | 1262.7  | 1339.4  | 1555.9  | 1939.2  | 2052.0  | 2268.4  |
| 65°   | 13168.6 | 12663.5 | 10047.8 | 5623.7  | 1434.1  | 1095.9  | 1222.2  | 1402.5  | 1673.1  | 1894.1  | 2092.6  |
| 67.5° | 8243.9  | 7761.4  | 5362.2  | 2660.8  | 1001.2  | 938.0   | 1091.4  | 1280.8  | 1501.8  | 1700.2  | 1921.2  |
| 70°   | 4306.9  | 3779.2  | 2475.9  | 960.6   | 690.0   | 766.7   | 911.0   | 1091.4  | 1307.8  | 1470.2  | 1641.6  |
| 72.5° | 1605.5  | 1303.3  | 807.3   | 414.9   | 478.0   | 586.3   | 739.6   | 870.4   | 1023.7  | 1222.2  | 1316.9  |
| 75°   | 248.0   | 212.0   | 207.5   | 252.5   | 324.7   | 423.9   | 527.6   | 658.4   | 793.7   | 920.0   | 983.1   |
| 77.5° | 117.3   | 112.7   | 126.3   | 166.9   | 216.5   | 302.2   | 383.3   | 509.6   | 617.8   | 699.0   | 735.1   |
| 80°   | 76.7    | 72.2    | 81.2    | 112.7   | 162.4   | 225.5   | 306.7   | 392.4   | 491.6   | 559.2   | 550.2   |
| 82.5° | 45.1    | 49.6    | 49.6    | 76.7    | 112.7   | 162.4   | 221.0   | 297.6   | 365.3   | 423.9   | 387.8   |
| 85°   | 27.1    | 22.5    | 22.5    | 45.1    | 76.7    | 130.8   | 184.9   | 126.3   | 130.8   | 130.8   | 148.8   |
| 87.5° | 9.0     | 9.0     | 9.0     | 4.5     | 9.0     | 9.0     | 13.5    | 22.5    | 27.1    | 31.6    | 40.6    |
| 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°    | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 |
| 2.5°  | 11910.4 | 12050.2 | 12000.6 | 11824.7 | 11960.0 | 11982.6 | 11892.4 | 12203.5 | 12262.2 | 12167.5 | 12194.5 |
| 5°    | 9655.5  | 9691.6  | 9772.8  | 9944.1  | 10065.9 | 10210.2 | 10210.2 | 10219.2 | 10097.5 | 10404.1 | 10313.9 |
| 7.5°  | 7522.4  | 7544.9  | 7639.6  | 8004.9  | 8108.6  | 8383.7  | 8501.0  | 8419.8  | 8176.3  | 8072.6  | 8158.2  |
| 10°   | 6494.1  | 6363.3  | 6331.8  | 6376.9  | 6611.4  | 6728.6  | 6827.8  | 6800.8  | 6760.2  | 6679.0  | 6588.8  |
| 12.5° | 5808.6  | 5713.9  | 5637.3  | 5529.0  | 5542.6  | 5655.3  | 5732.0  | 5668.8  | 5686.9  | 5704.9  | 5732.0  |
| 15°   | 5064.5  | 4996.9  | 4956.3  | 4793.9  | 4775.9  | 4852.6  | 4879.6  | 4915.7  | 4983.3  | 4987.8  | 4956.3  |
| 17.5° | 4275.3  | 4216.7  | 4306.9  | 4397.1  | 4333.9  | 4338.4  | 4388.0  | 4419.6  | 4401.6  | 4320.4  | 4279.8  |
| 20°   | 3734.1  | 3797.3  | 3887.5  | 3973.1  | 4040.8  | 4081.4  | 4099.4  | 4049.8  | 3991.2  | 3824.3  | 3819.8  |
| 22.5° | 3576.3  | 3657.5  | 3734.1  | 3864.9  | 3928.0  | 4031.8  | 3937.1  | 3824.3  | 3743.1  | 3662.0  | 3567.3  |
| 25°   | 3459.0  | 3526.7  | 3680.0  | 3729.6  | 3851.4  | 3937.1  | 3869.4  | 3756.7  | 3616.9  | 3499.6  | 3427.5  |
| 27.5° | 3373.3  | 3450.0  | 3549.2  | 3684.5  | 3779.2  | 3828.8  | 3761.2  | 3716.1  | 3571.8  | 3432.0  | 3328.2  |
| 30°   | 3319.2  | 3400.4  | 3580.8  | 3693.5  | 3774.7  | 3815.3  | 3698.0  | 3643.9  | 3540.2  | 3422.9  | 3332.7  |
| 32.5° | 3283.1  | 3355.3  | 3508.6  | 3652.9  | 3707.1  | 3707.1  | 3725.1  | 3662.0  | 3517.6  | 3319.2  | 3242.6  |
| 35°   | 3165.9  | 3265.1  | 3391.4  | 3558.2  | 3657.5  | 3716.1  | 3625.9  | 3553.7  | 3459.0  | 3256.1  | 3116.3  |
| 37.5° | 3098.2  | 3165.9  | 3328.2  | 3486.1  | 3571.8  | 3634.9  | 3598.8  | 3472.6  | 3346.3  | 3179.4  | 3066.7  |
| 40°   | 3026.1  | 3134.3  | 3278.6  | 3427.5  | 3522.2  | 3585.3  | 3558.2  | 3409.4  | 3256.1  | 3098.2  | 3021.6  |
| 42.5° | 2976.5  | 3048.6  | 3197.5  | 3364.3  | 3477.1  | 3598.8  | 3517.6  | 3332.7  | 3224.5  | 3008.0  | 2922.4  |
| 45°   | 2935.9  | 3053.1  | 3211.0  | 3278.6  | 3395.9  | 3522.2  | 3377.8  | 3265.1  | 3138.8  | 2981.0  | 2908.8  |
| 47.5° | 2886.3  | 2994.5  | 3098.2  | 3278.6  | 3332.7  | 3391.4  | 3364.3  | 3183.9  | 3075.7  | 2904.3  | 2854.7  |
| 50°   | 2868.2  | 2908.8  | 3098.2  | 3197.5  | 3274.1  | 3332.7  | 3260.6  | 3125.3  | 3021.6  | 2845.7  | 2737.5  |
| 52.5° | 2796.1  | 2872.7  | 2994.5  | 3125.3  | 3220.0  | 3292.2  | 3174.9  | 3089.2  | 2949.4  | 2764.5  | 2696.9  |
| 55°   | 2705.9  | 2751.0  | 2967.5  | 3102.7  | 3152.4  | 3202.0  | 3156.9  | 3017.1  | 2872.7  | 2683.3  | 2615.7  |
| 57.5° | 2588.6  | 2692.4  | 2868.2  | 3057.6  | 3120.8  | 3147.8  | 3075.7  | 2962.9  | 2782.6  | 2615.7  | 2507.5  |
| 60°   | 2466.9  | 2575.1  | 2769.0  | 2922.4  | 2985.5  | 3084.7  | 2976.5  | 2908.8  | 2701.4  | 2516.5  | 2399.2  |
| 62.5° | 2345.1  | 2466.9  | 2611.2  | 2805.1  | 2859.2  | 2899.8  | 2872.7  | 2778.0  | 2611.2  | 2403.7  | 2259.4  |
| 65°   | 2200.8  | 2291.0  | 2471.4  | 2570.6  | 2606.7  | 2701.4  | 2606.7  | 2570.6  | 2421.8  | 2223.3  | 2101.6  |
| 67.5° | 1984.3  | 2061.0  | 2218.8  | 2313.5  | 2340.6  | 2381.2  | 2376.7  | 2336.1  | 2169.2  | 2033.9  | 1925.7  |
| 70°   | 1736.3  | 1803.9  | 1903.1  | 2015.9  | 2029.4  | 2079.0  | 2033.9  | 2024.9  | 1916.7  | 1731.8  | 1673.1  |
| 72.5° | 1393.5  | 1456.7  | 1587.5  | 1637.1  | 1641.6  | 1659.6  | 1637.1  | 1605.5  | 1578.4  | 1384.5  | 1325.9  |
| 75°   | 1068.8  | 1104.9  | 1168.0  | 1213.1  | 1213.1  | 1235.7  | 1222.2  | 1190.6  | 1118.4  | 996.7   | 938.0   |
| 77.5° | 744.1   | 780.2   | 861.4   | 888.4   | 883.9   | 892.9   | 852.4   | 820.8   | 712.5   | 649.4   | 599.8   |
| 80°   | 541.2   | 563.7   | 604.3   | 622.4   | 626.9   | 640.4   | 590.8   | 563.7   | 500.6   | 428.4   | 405.9   |
| 82.5° | 392.4   | 405.9   | 410.4   | 432.9   | 432.9   | 410.4   | 396.9   | 369.8   | 324.7   | 279.6   | 261.6   |
| 85°   | 162.4   | 166.9   | 171.4   | 198.4   | 202.9   | 243.5   | 225.5   | 212.0   | 184.9   | 157.8   | 144.3   |
| 87.5° | 40.6    | 45.1    | 58.6    | 49.6    | 58.6    | 58.6    | 63.1    | 72.2    | 72.2    | 58.6    | 58.6    |
| 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):**

|       | 185°    | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 |
| 2.5°  | 12298.2 | 12334.3 | 12794.3 | 12852.9 | 13078.4 | 13308.4 | 13772.9 | 14106.7 | 14377.3 | 14553.1 | 14602.8 |
| 5°    | 10408.6 | 10638.6 | 10850.6 | 11193.3 | 11504.5 | 11946.5 | 12456.1 | 13087.5 | 13881.2 | 14287.1 | 14449.4 |
| 7.5°  | 8149.2  | 8419.8  | 8726.5  | 9060.2  | 9515.7  | 10309.4 | 10990.4 | 11721.0 | 12735.7 | 13155.1 | 13791.0 |
| 10°   | 6652.0  | 6954.1  | 7360.0  | 7617.1  | 8167.3  | 8924.9  | 9718.6  | 10562.0 | 11531.6 | 12135.9 | 12871.0 |
| 12.5° | 5880.8  | 6128.8  | 6503.1  | 7044.3  | 7454.7  | 7946.3  | 8537.1  | 9601.4  | 10990.4 | 11563.1 | 12068.2 |
| 15°   | 5028.4  | 5303.5  | 5736.5  | 6336.3  | 6827.8  | 7414.1  | 8077.1  | 9236.1  | 10715.3 | 11599.2 | 12027.7 |
| 17.5° | 4324.9  | 4523.3  | 4978.8  | 5497.5  | 6061.2  | 6701.6  | 7653.1  | 9218.0  | 11003.9 | 12135.9 | 12834.9 |
| 20°   | 3837.8  | 3864.9  | 4112.9  | 4554.9  | 5321.6  | 6155.9  | 7391.6  | 9127.8  | 11928.4 | 13060.4 | 13944.3 |
| 22.5° | 3531.2  | 3504.1  | 3508.6  | 3882.9  | 4419.6  | 5619.2  | 6981.2  | 9434.5  | 12979.2 | 14530.6 | 15125.9 |
| 25°   | 3377.8  | 3305.7  | 3260.6  | 3341.8  | 3828.8  | 4983.3  | 6670.0  | 9840.4  | 14111.2 | 15743.7 | 16474.3 |
| 27.5° | 3296.7  | 3170.4  | 3080.2  | 3093.7  | 3450.0  | 4663.1  | 6476.1  | 10016.3 | 15234.1 | 17434.9 | 17692.0 |
| 30°   | 3265.1  | 3107.3  | 2976.5  | 2931.4  | 3165.9  | 4216.7  | 6061.2  | 10318.4 | 16239.8 | 18363.9 | 18584.9 |
| 32.5° | 3152.4  | 2958.4  | 2832.2  | 2791.6  | 2886.3  | 3824.3  | 5763.5  | 10534.9 | 17128.2 | 19374.1 | 19297.5 |
| 35°   | 3021.6  | 2859.2  | 2701.4  | 2624.7  | 2692.4  | 3571.8  | 5524.5  | 10431.2 | 18174.5 | 20158.8 | 20118.2 |
| 37.5° | 3008.0  | 2796.1  | 2665.3  | 2539.0  | 2534.5  | 3260.6  | 5199.8  | 10530.4 | 18842.0 | 21565.9 | 21011.2 |
| 40°   | 2890.8  | 2755.5  | 2584.1  | 2480.4  | 2421.8  | 3102.7  | 4884.1  | 10295.9 | 19820.6 | 22134.1 | 21588.4 |
| 42.5° | 2895.3  | 2692.4  | 2543.5  | 2421.8  | 2363.1  | 2872.7  | 4667.6  | 10232.8 | 20163.3 | 23058.6 | 21859.0 |
| 45°   | 2823.1  | 2624.7  | 2498.4  | 2354.1  | 2322.6  | 2696.9  | 4460.2  | 9939.6  | 20767.7 | 23103.7 | 21520.8 |
| 47.5° | 2751.0  | 2575.1  | 2439.8  | 2268.4  | 2196.3  | 2633.7  | 4297.8  | 9696.1  | 20452.0 | 22679.8 | 21051.8 |
| 50°   | 2701.4  | 2498.4  | 2372.2  | 2250.4  | 2047.5  | 2525.5  | 4085.9  | 9637.5  | 20010.0 | 22107.1 | 20181.4 |
| 52.5° | 2615.7  | 2435.3  | 2304.5  | 2209.8  | 1885.1  | 2426.3  | 4004.7  | 9980.2  | 20551.2 | 21678.6 | 19928.8 |
| 55°   | 2534.5  | 2349.6  | 2182.7  | 1997.8  | 1749.8  | 2164.7  | 3779.2  | 10300.4 | 21340.4 | 22666.3 | 21074.3 |
| 57.5° | 2448.8  | 2272.9  | 2092.6  | 1871.6  | 1619.0  | 1894.1  | 3544.7  | 10359.0 | 19861.2 | 20948.1 | 20005.5 |
| 60°   | 2336.1  | 2110.6  | 1975.3  | 1686.7  | 1479.2  | 1569.4  | 2809.6  | 9132.4  | 15405.5 | 17493.5 | 17525.1 |
| 62.5° | 2209.8  | 1966.3  | 1849.0  | 1510.8  | 1334.9  | 1352.9  | 2291.0  | 7675.7  | 12496.7 | 14481.0 | 15342.4 |
| 65°   | 2042.9  | 1808.4  | 1668.6  | 1398.0  | 1231.2  | 1172.5  | 1677.6  | 5623.7  | 9493.1  | 11748.0 | 12726.7 |
| 67.5° | 1826.5  | 1605.5  | 1429.6  | 1217.6  | 1100.4  | 1005.7  | 1145.5  | 3165.9  | 5605.7  | 7887.7  | 8185.3  |
| 70°   | 1596.5  | 1407.1  | 1222.2  | 1046.3  | 915.5   | 847.8   | 838.8   | 1402.5  | 2678.8  | 4243.7  | 4830.0  |
| 72.5° | 1258.2  | 1122.9  | 974.1   | 843.3   | 757.6   | 658.4   | 599.8   | 581.8   | 906.5   | 1727.3  | 2385.7  |
| 75°   | 902.0   | 789.2   | 703.5   | 617.8   | 554.7   | 500.6   | 455.5   | 414.9   | 378.8   | 432.9   | 595.3   |
| 77.5° | 568.2   | 527.6   | 460.0   | 437.5   | 401.4   | 387.8   | 369.8   | 347.3   | 320.2   | 302.2   | 302.2   |
| 80°   | 383.3   | 356.3   | 333.7   | 329.2   | 315.7   | 311.2   | 315.7   | 293.1   | 266.1   | 243.5   | 252.5   |
| 82.5° | 257.1   | 252.5   | 248.0   | 243.5   | 248.0   | 252.5   | 261.6   | 257.1   | 234.5   | 221.0   | 225.5   |
| 85°   | 153.3   | 162.4   | 171.4   | 180.4   | 198.4   | 175.9   | 144.3   | 121.8   | 108.2   | 99.2    | 94.7    |
| 87.5° | 58.6    | 81.2    | 72.2    | 67.6    | 72.2    | 67.6    | 63.1    | 58.6    | 49.6    | 45.1    | 45.1    |
| 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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|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 | 13809.0 |
| 2.5°  | 14932.0 | 15022.2 | 15098.8 | 15080.8 | 14923.0 | 14711.0 | 14625.3 | 14187.9 | 14097.7 | 14039.0 |
| 5°    | 15134.9 | 15658.0 | 15770.8 | 15703.1 | 15292.8 | 14774.1 | 14269.0 | 13628.6 | 13254.3 | 13240.8 |
| 7.5°  | 14760.6 | 15405.5 | 15608.4 | 15761.8 | 15216.1 | 14314.1 | 13448.2 | 12487.7 | 12253.1 | 12271.2 |
| 10°   | 13809.0 | 14837.3 | 15337.9 | 15495.7 | 14868.8 | 14088.6 | 12889.0 | 11914.9 | 11414.3 | 11405.3 |
| 12.5° | 13281.4 | 14088.6 | 14228.4 | 14449.4 | 14264.5 | 13475.3 | 12564.3 | 11472.9 | 10985.9 | 10976.9 |
| 15°   | 12812.4 | 13344.5 | 13385.1 | 13696.3 | 13795.5 | 13263.3 | 12650.0 | 11486.5 | 11094.1 | 11053.5 |
| 17.5° | 13222.8 | 12852.9 | 12699.6 | 12740.2 | 13033.3 | 13227.3 | 13146.1 | 12253.1 | 11851.8 | 11626.3 |
| 20°   | 13497.9 | 12672.6 | 12208.0 | 12253.1 | 12600.4 | 13308.4 | 13885.7 | 13362.6 | 12726.7 | 12753.7 |
| 22.5° | 14233.0 | 12699.6 | 11973.5 | 11923.9 | 12474.1 | 13732.4 | 14720.0 | 14765.1 | 14151.8 | 14002.9 |
| 25°   | 15333.3 | 13010.8 | 11901.4 | 11887.9 | 12415.5 | 14187.9 | 15694.1 | 16424.7 | 15797.9 | 15522.8 |
| 27.5° | 16217.3 | 13497.9 | 12126.9 | 12172.0 | 12600.4 | 14557.7 | 16523.9 | 17493.5 | 17015.5 | 16677.3 |
| 30°   | 16993.0 | 14002.9 | 12442.6 | 12235.1 | 13096.5 | 14751.6 | 16880.2 | 18711.2 | 18327.9 | 18048.2 |
| 32.5° | 17313.1 | 14720.0 | 12943.1 | 12600.4 | 13506.9 | 14986.1 | 17619.8 | 19892.8 | 19563.5 | 18873.5 |
| 35°   | 17854.3 | 15121.4 | 13213.7 | 13186.7 | 14223.9 | 15549.8 | 17967.1 | 20673.0 | 20537.7 | 19924.3 |
| 37.5° | 18287.3 | 15527.3 | 14174.3 | 13876.7 | 15207.1 | 16496.9 | 18526.3 | 21750.8 | 21439.6 | 21151.0 |
| 40°   | 18621.0 | 16253.3 | 15071.8 | 15464.1 | 16415.7 | 17358.2 | 19040.4 | 21818.4 | 22715.9 | 21877.1 |
| 42.5° | 18314.3 | 16902.8 | 16546.5 | 17484.5 | 18386.5 | 18341.4 | 19099.0 | 22341.6 | 23013.5 | 22576.1 |
| 45°   | 18237.7 | 18003.1 | 18878.1 | 19730.4 | 19937.9 | 19157.7 | 18679.6 | 21764.3 | 22923.3 | 22729.4 |
| 47.5° | 18052.8 | 19085.5 | 20609.8 | 21998.8 | 21683.2 | 19703.3 | 18179.0 | 21660.6 | 22977.5 | 22630.2 |
| 50°   | 17989.6 | 19320.0 | 21890.6 | 23243.5 | 23054.1 | 20176.9 | 17944.5 | 20993.2 | 22594.1 | 22562.6 |
| 52.5° | 17985.1 | 19802.6 | 22422.8 | 23920.0 | 24037.3 | 20925.5 | 18264.7 | 21331.4 | 22891.8 | 23157.9 |
| 55°   | 18188.1 | 19649.2 | 22355.1 | 23545.7 | 23500.6 | 20591.8 | 18300.8 | 21556.9 | 23257.1 | 23518.6 |
| 57.5° | 17155.3 | 17601.8 | 18449.6 | 19392.2 | 19148.6 | 17056.1 | 16343.5 | 19928.8 | 21344.9 | 21155.5 |
| 60°   | 14814.7 | 13416.7 | 12460.6 | 12415.5 | 11942.0 | 11288.0 | 13376.1 | 17786.7 | 17786.7 | 17601.8 |
| 62.5° | 12974.7 | 8807.7  | 7567.5  | 7215.7  | 7553.9  | 8307.1  | 12902.6 | 17299.6 | 16808.0 | 16596.1 |
| 65°   | 11346.7 | 6724.1  | 5470.4  | 5371.2  | 5957.5  | 7093.9  | 11666.9 | 14738.0 | 13872.2 | 13168.6 |
| 67.5° | 7301.4  | 4924.7  | 4067.8  | 3892.0  | 4600.0  | 5208.8  | 7765.9  | 9064.7  | 8519.0  | 8243.9  |
| 70°   | 4708.2  | 3206.5  | 2263.9  | 2124.1  | 2399.2  | 3211.0  | 4960.8  | 5285.5  | 4491.8  | 4306.9  |
| 72.5° | 2227.8  | 1384.5  | 793.7   | 653.9   | 735.1   | 1226.7  | 1961.8  | 2110.6  | 1754.3  | 1605.5  |
| 75°   | 708.0   | 509.6   | 324.7   | 279.6   | 266.1   | 315.7   | 451.0   | 347.3   | 252.5   | 248.0   |
| 77.5° | 315.7   | 302.2   | 257.1   | 216.5   | 189.4   | 157.8   | 130.8   | 108.2   | 112.7   | 117.3   |
| 80°   | 261.6   | 239.0   | 212.0   | 189.4   | 157.8   | 121.8   | 94.7    | 72.2    | 72.2    | 76.7    |
| 82.5° | 230.0   | 207.5   | 184.9   | 157.8   | 135.3   | 99.2    | 72.2    | 49.6    | 45.1    | 45.1    |
| 85°   | 99.2    | 117.3   | 126.3   | 135.3   | 108.2   | 81.2    | 49.6    | 31.6    | 27.1    | 27.1    |
| 87.5° | 40.6    | 36.1    | 31.6    | 27.1    | 22.5    | 22.5    | 18.0    | 13.5    | 9.0     | 9.0     |
| 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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