

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: P452030

Luminaire Tested: **GLAN-SA3A-722-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452030  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3A-722-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8651 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3

Input Watts (W): 93  
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

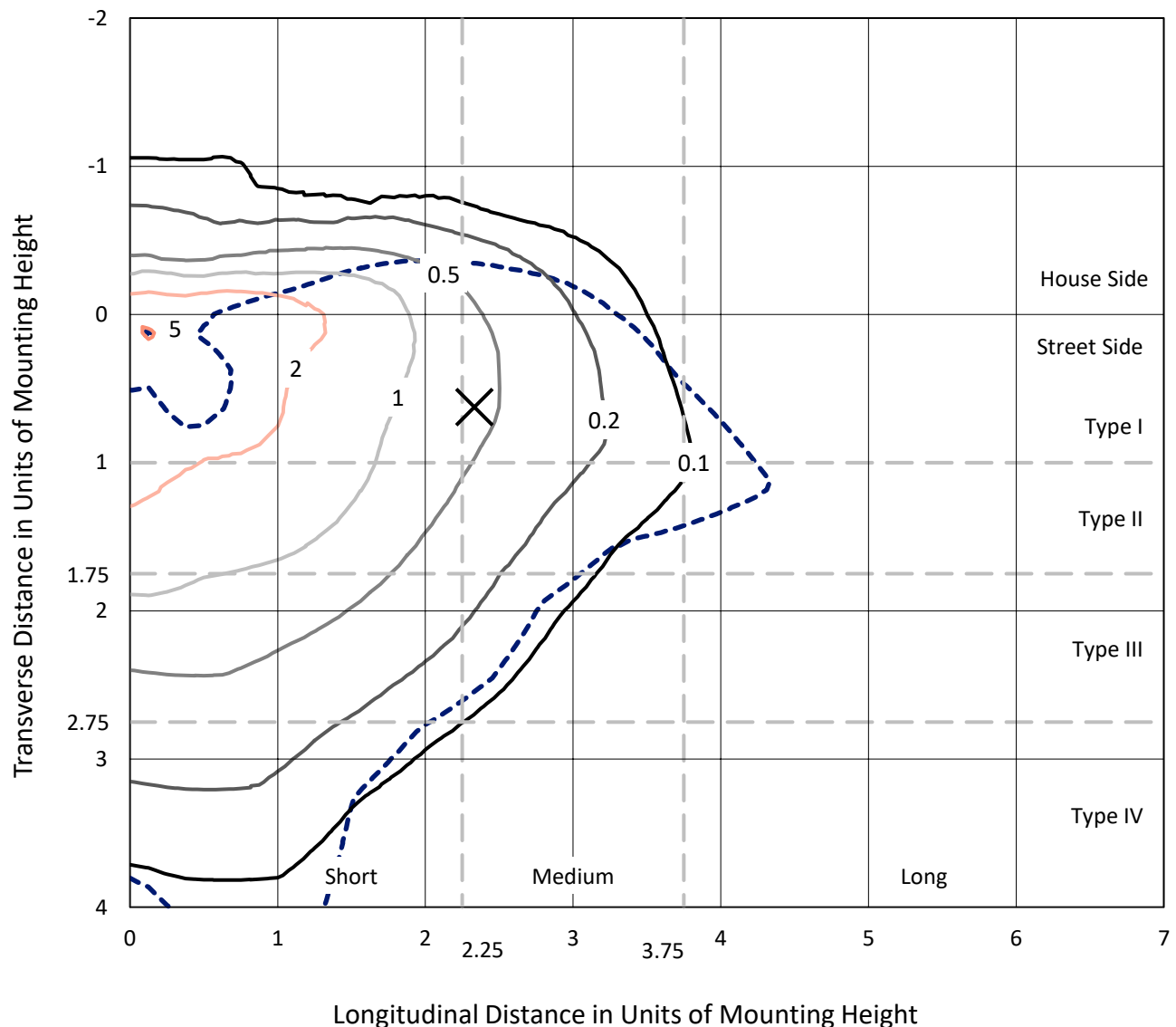


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

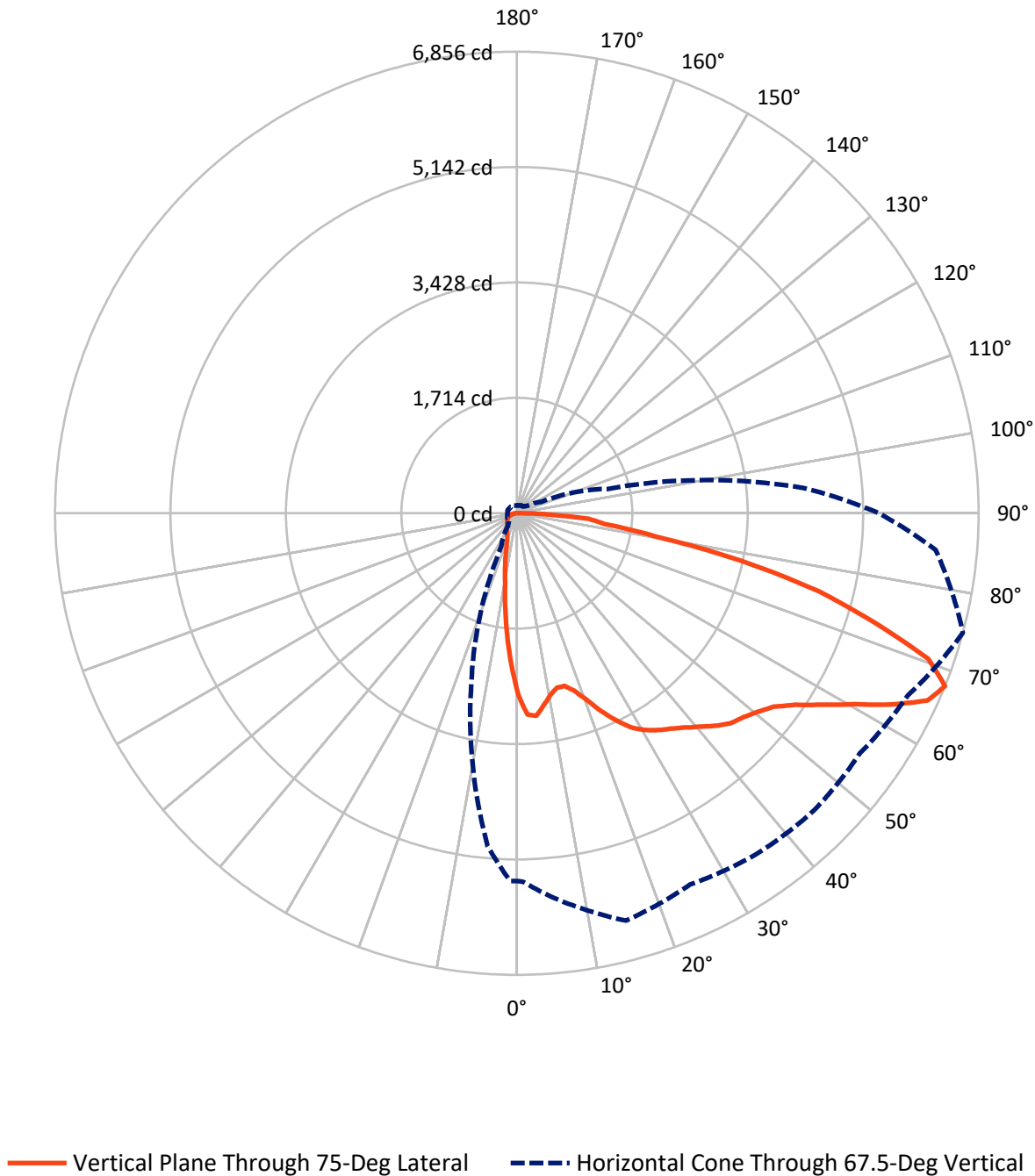


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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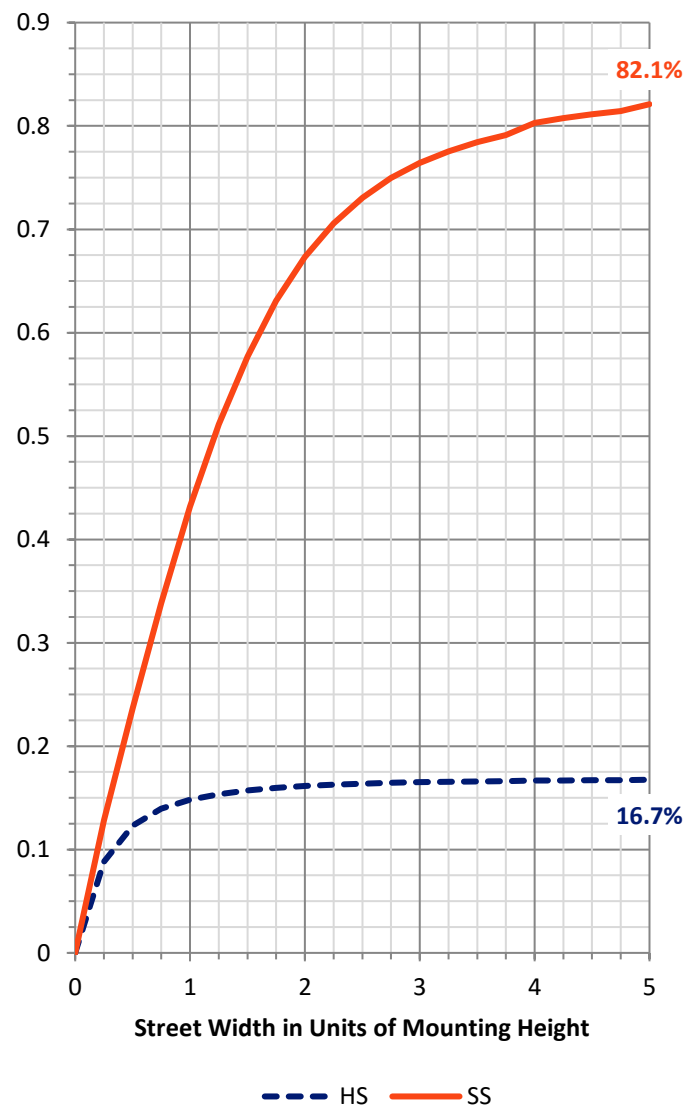
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1462.2   | 0.0    | 1462.2 |
|                    | % Fixture | 16.9     | 0.0    | 16.9   |
| <b>Street Side</b> | Lumens    | 7188.8   | 0.0    | 7188.8 |
|                    | % Fixture | 83.1     | 0.0    | 83.1   |
| <b>Total</b>       | Lumens    | 8651.0   | 0.0    | 8651.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 205.0  | 2.4       |
| 10°-20°   | 427.5  | 4.9       |
| 20°-30°   | 615.2  | 7.1       |
| 30°-40°   | 886.1  | 10.2      |
| 40°-50°   | 1244.7 | 14.4      |
| 50°-60°   | 1735.9 | 20.1      |
| 60°-70°   | 2063.9 | 23.9      |
| 70°-80°   | 1215.5 | 14.1      |
| 80°-90°   | 257.0  | 3.0       |
| 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°    | 8651.0 | 100.0     |
| 0°-180°   | 8651.0 | 100.0     |

**Coefficient of Utilization**



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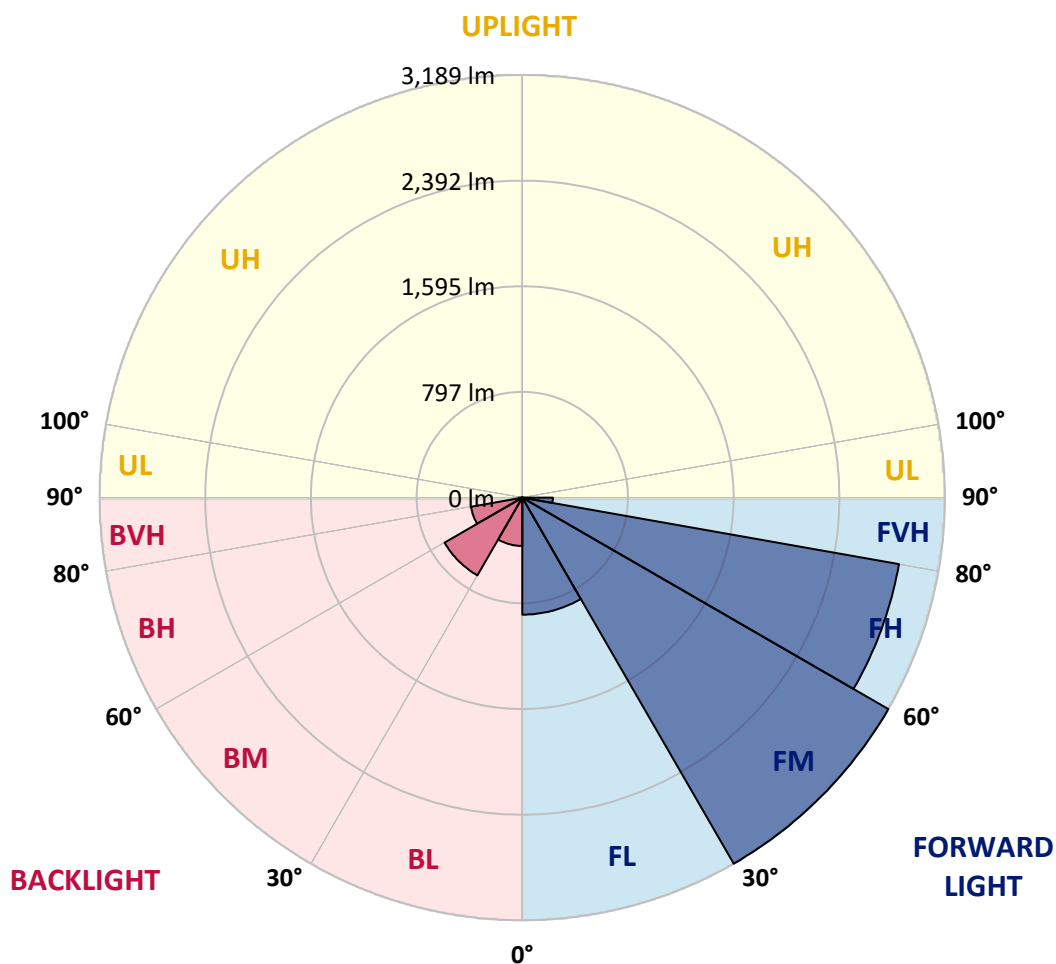
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 883.0  | 10.2      |                         |      |         |
| FM   | (30°-60°)   | 3189.3 | 36.9      |                         |      |         |
| FH   | (60°-80°)   | 2886.0 | 33.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 230.5  | 2.7       |                         |      | G3/500  |
| BL   | (0°-30°)    | 364.7  | 4.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 677.4  | 7.8       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 393.5  | 4.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 26.6   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 |
| 2.5°  | 2914.1 | 2918.0 | 2943.0 | 3015.7 | 3065.6 | 3083.9 | 3096.7 | 3072.8 | 3049.5 | 2992.9 | 2907.5 |
| 5°    | 2905.3 | 2928.0 | 2992.9 | 3156.0 | 3284.7 | 3340.2 | 3356.8 | 3285.3 | 3167.1 | 3021.8 | 2847.0 |
| 7.5°  | 2735.5 | 2766.0 | 2865.9 | 3139.4 | 3366.3 | 3496.1 | 3478.9 | 3349.6 | 3136.6 | 2877.5 | 2633.4 |
| 10°   | 2534.1 | 2568.0 | 2688.4 | 3019.0 | 3311.3 | 3490.0 | 3490.0 | 3332.4 | 3049.5 | 2741.6 | 2460.3 |
| 12.5° | 2374.4 | 2409.9 | 2547.4 | 2895.3 | 3197.1 | 3366.3 | 3394.6 | 3259.2 | 2986.8 | 2655.6 | 2346.6 |
| 15°   | 2321.7 | 2356.1 | 2504.2 | 2820.4 | 3076.1 | 3179.3 | 3188.7 | 3144.4 | 2956.3 | 2661.7 | 2341.6 |
| 17.5° | 2387.1 | 2431.5 | 2581.3 | 2842.6 | 2965.2 | 2971.3 | 2978.5 | 3013.4 | 2959.6 | 2773.2 | 2442.6 |
| 20°   | 2576.3 | 2624.0 | 2780.4 | 2914.1 | 2868.1 | 2804.9 | 2808.7 | 2898.6 | 2999.0 | 2957.4 | 2683.9 |
| 22.5° | 2849.2 | 2890.8 | 3051.2 | 3040.1 | 2827.0 | 2696.7 | 2669.5 | 2794.9 | 3057.3 | 3187.1 | 2940.8 |
| 25°   | 3143.8 | 3192.6 | 3376.8 | 3227.0 | 2838.7 | 2632.3 | 2615.1 | 2733.8 | 3117.7 | 3401.8 | 3237.6 |
| 27.5° | 3481.1 | 3528.8 | 3674.2 | 3415.6 | 2899.7 | 2627.3 | 2606.8 | 2728.3 | 3172.1 | 3600.4 | 3521.0 |
| 30°   | 3731.9 | 3775.7 | 3874.4 | 3574.3 | 2974.6 | 2660.6 | 2635.1 | 2772.1 | 3218.7 | 3736.3 | 3797.3 |
| 32.5° | 3928.8 | 3974.3 | 4028.1 | 3673.0 | 3073.4 | 2721.1 | 2673.9 | 2852.0 | 3279.7 | 3840.0 | 4002.0 |
| 35°   | 4134.1 | 4187.9 | 4184.0 | 3760.7 | 3165.4 | 2791.0 | 2744.9 | 2967.4 | 3375.7 | 3930.5 | 4261.6 |
| 37.5° | 4394.2 | 4415.9 | 4388.1 | 3839.5 | 3275.8 | 2916.9 | 2891.4 | 3138.8 | 3512.2 | 4039.7 | 4565.1 |
| 40°   | 4658.3 | 4701.6 | 4559.0 | 3934.9 | 3410.1 | 3153.8 | 3151.0 | 3392.3 | 3674.2 | 4167.9 | 4859.1 |
| 42.5° | 4884.6 | 4921.3 | 4718.8 | 4018.1 | 3572.6 | 3442.8 | 3463.9 | 3732.4 | 3886.6 | 4316.6 | 5095.4 |
| 45°   | 5054.9 | 5087.7 | 4866.3 | 4098.5 | 3786.8 | 3776.8 | 3901.1 | 4096.9 | 4154.6 | 4450.3 | 5234.1 |
| 47.5° | 5199.7 | 5231.4 | 4969.0 | 4220.6 | 4051.4 | 4175.7 | 4392.0 | 4476.9 | 4383.7 | 4526.8 | 5389.5 |
| 50°   | 5321.8 | 5331.2 | 5039.4 | 4365.9 | 4379.8 | 4664.4 | 4874.1 | 4929.0 | 4610.0 | 4636.7 | 5524.3 |
| 52.5° | 5448.8 | 5436.6 | 5160.9 | 4549.0 | 4734.9 | 5128.2 | 5280.7 | 5337.9 | 4826.9 | 4772.0 | 5720.7 |
| 55°   | 5733.4 | 5745.1 | 5433.3 | 4779.8 | 5093.8 | 5583.6 | 5784.5 | 5729.5 | 5067.2 | 5021.1 | 5970.3 |
| 57.5° | 6077.4 | 6067.4 | 5816.6 | 5140.9 | 5459.4 | 6007.5 | 6157.3 | 6069.0 | 5387.8 | 5363.4 | 6223.3 |
| 60°   | 6211.1 | 6224.4 | 6137.3 | 5529.3 | 5820.0 | 6378.6 | 6531.7 | 6394.7 | 5772.2 | 5761.2 | 6414.1 |
| 62.5° | 6076.8 | 6151.7 | 6210.5 | 5874.9 | 6127.3 | 6651.5 | 6803.5 | 6647.1 | 6173.3 | 6253.8 | 6547.8 |
| 65°   | 5809.4 | 5825.5 | 6025.8 | 6167.8 | 6275.4 | 6696.5 | 6775.8 | 6692.6 | 6508.4 | 6702.6 | 6541.7 |
| 67.5° | 5462.1 | 5476.0 | 5710.7 | 6263.8 | 6084.6 | 6186.1 | 6241.6 | 6217.2 | 6404.7 | 6856.2 | 6240.5 |
| 70°   | 5131.5 | 5120.4 | 5368.4 | 6019.1 | 5296.8 | 5142.6 | 5188.6 | 5112.1 | 5526.5 | 6480.7 | 5649.6 |
| 72.5° | 4488.0 | 4527.9 | 4794.2 | 5339.0 | 4194.0 | 3943.2 | 4043.6 | 3845.6 | 4250.5 | 5550.3 | 4585.6 |
| 75°   | 3515.5 | 3524.9 | 3969.3 | 4480.8 | 3163.8 | 2768.2 | 2904.2 | 2821.5 | 3255.9 | 4630.0 | 3166.6 |
| 77.5° | 2434.3 | 2413.2 | 2890.8 | 3422.3 | 2256.2 | 2026.5 | 2028.7 | 1989.4 | 2273.4 | 3409.0 | 2151.3 |
| 80°   | 1546.1 | 1513.9 | 1809.6 | 2114.2 | 1550.5 | 1658.7 | 1604.4 | 1602.7 | 1480.1 | 2103.1 | 1300.9 |
| 82.5° | 835.5  | 871.0  | 1143.4 | 1325.3 | 1112.3 | 1282.0 | 1175.0 | 1140.6 | 1015.8 | 1316.4 | 832.1  |
| 85°   | 380.6  | 413.8  | 609.7  | 901.5  | 844.9  | 854.3  | 570.8  | 673.5  | 840.5  | 1069.0 | 444.4  |
| 87.5° | 37.2   | 47.7   | 125.9  | 425.5  | 288.5  | 227.5  | 84.9   | 163.7  | 211.4  | 380.0  | 35.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 |
| 2.5°  | 2872.5 | 2843.7 | 2745.5 | 2664.5 | 2578.5 | 2513.1 | 2427.6 | 2370.5 | 2331.1 | 2271.7 | 2264.5 |
| 5°    | 2740.5 | 2670.0 | 2499.2 | 2325.0 | 2174.6 | 2061.5 | 1946.6 | 1841.2 | 1779.1 | 1759.7 | 1734.7 |
| 7.5°  | 2518.0 | 2399.3 | 2179.6 | 1979.9 | 1807.4 | 1638.8 | 1508.9 | 1416.8 | 1355.3 | 1319.2 | 1275.9 |
| 10°   | 2335.0 | 2197.4 | 1930.0 | 1685.4 | 1543.3 | 1438.5 | 1324.2 | 1225.5 | 1149.5 | 1084.6 | 1049.0 |
| 12.5° | 2211.8 | 2056.5 | 1755.8 | 1557.2 | 1447.4 | 1335.9 | 1202.2 | 1091.2 | 979.1  | 905.4  | 873.7  |
| 15°   | 2174.6 | 2010.4 | 1702.0 | 1493.4 | 1335.9 | 1190.0 | 1040.2 | 895.4  | 784.4  | 714.5  | 691.2  |
| 17.5° | 2265.6 | 2067.0 | 1701.4 | 1408.5 | 1204.9 | 1030.7 | 838.8  | 702.9  | 589.2  | 537.0  | 520.4  |
| 20°   | 2435.4 | 2175.8 | 1706.4 | 1324.8 | 1062.9 | 817.7  | 610.2  | 498.7  | 444.4  | 422.2  | 413.8  |
| 22.5° | 2672.3 | 2341.6 | 1721.4 | 1242.1 | 907.6  | 628.0  | 457.1  | 400.5  | 381.1  | 377.2  | 375.6  |
| 25°   | 2964.1 | 2546.9 | 1771.9 | 1167.8 | 776.7  | 479.3  | 382.2  | 356.7  | 345.6  | 341.7  | 341.2  |
| 27.5° | 3232.6 | 2812.1 | 1832.9 | 1104.0 | 650.2  | 413.3  | 345.6  | 324.0  | 312.9  | 312.3  | 313.4  |
| 30°   | 3475.0 | 3034.0 | 1884.0 | 1032.4 | 554.2  | 367.2  | 321.8  | 300.1  | 289.6  | 289.0  | 292.4  |
| 32.5° | 3684.7 | 3216.5 | 1921.7 | 961.9  | 500.9  | 339.0  | 300.1  | 276.8  | 267.9  | 266.3  | 267.9  |
| 35°   | 3908.8 | 3398.4 | 1904.5 | 907.0  | 470.4  | 315.7  | 284.0  | 261.3  | 250.8  | 245.8  | 245.8  |
| 37.5° | 4164.6 | 3586.0 | 1875.1 | 861.5  | 456.6  | 296.2  | 270.2  | 248.0  | 237.4  | 232.4  | 231.9  |
| 40°   | 4443.6 | 3773.5 | 1834.6 | 821.0  | 442.7  | 284.6  | 260.7  | 237.4  | 224.7  | 219.7  | 218.6  |
| 42.5° | 4689.9 | 3933.8 | 1801.3 | 794.4  | 420.0  | 286.8  | 252.4  | 229.7  | 213.6  | 206.9  | 206.4  |
| 45°   | 4904.1 | 4095.2 | 1795.2 | 778.9  | 401.1  | 283.5  | 250.2  | 223.6  | 204.7  | 197.5  | 196.4  |
| 47.5° | 5071.6 | 4263.3 | 1830.1 | 770.0  | 380.6  | 265.7  | 264.6  | 219.7  | 196.9  | 189.2  | 188.1  |
| 50°   | 5275.7 | 4501.9 | 1910.0 | 751.7  | 361.7  | 249.1  | 279.6  | 219.1  | 190.8  | 180.9  | 178.1  |
| 52.5° | 5547.6 | 4812.5 | 2018.2 | 719.0  | 334.5  | 233.6  | 266.8  | 219.1  | 183.6  | 173.6  | 170.3  |
| 55°   | 5958.6 | 5208.6 | 2124.2 | 672.9  | 296.2  | 213.0  | 240.8  | 212.5  | 173.1  | 164.2  | 162.0  |
| 57.5° | 6231.0 | 5498.2 | 2191.8 | 609.1  | 248.5  | 198.0  | 207.5  | 201.9  | 162.5  | 153.1  | 153.1  |
| 60°   | 6244.9 | 5575.9 | 2159.7 | 528.7  | 218.6  | 184.2  | 180.3  | 203.6  | 153.1  | 143.1  | 142.0  |
| 62.5° | 6085.1 | 5385.6 | 1992.1 | 456.6  | 202.5  | 169.2  | 163.1  | 178.6  | 143.7  | 133.7  | 132.0  |
| 65°   | 5835.5 | 4900.2 | 1701.4 | 422.2  | 193.6  | 155.9  | 147.0  | 146.5  | 133.7  | 124.3  | 122.0  |
| 67.5° | 5376.7 | 4282.2 | 1398.0 | 402.2  | 189.2  | 140.9  | 132.6  | 129.8  | 122.0  | 114.3  | 113.2  |
| 70°   | 4700.5 | 3586.5 | 1121.2 | 393.9  | 187.0  | 125.4  | 118.7  | 115.4  | 108.7  | 102.6  | 102.1  |
| 72.5° | 3657.0 | 2909.1 | 925.3  | 388.3  | 185.8  | 111.0  | 103.7  | 99.3   | 95.4   | 89.9   | 89.9   |
| 75°   | 2626.8 | 2140.3 | 706.2  | 350.1  | 172.0  | 95.4   | 87.7   | 84.9   | 79.3   | 74.9   | 76.0   |
| 77.5° | 1656.0 | 1441.3 | 464.9  | 257.4  | 133.1  | 76.6   | 69.9   | 68.2   | 63.8   | 57.7   | 61.6   |
| 80°   | 1118.4 | 1013.5 | 271.3  | 162.0  | 83.8   | 56.0   | 53.8   | 53.3   | 48.3   | 41.6   | 42.2   |
| 82.5° | 761.1  | 746.7  | 140.9  | 92.1   | 48.3   | 32.7   | 31.6   | 32.7   | 27.2   | 22.2   | 22.2   |
| 85°   | 297.3  | 406.1  | 66.6   | 36.1   | 15.5   | 5.0    | 7.2    | 7.8    | 4.4    | 2.2    | 2.8    |
| 87.5° | 5.5    | 41.6   | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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°    | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 |
| 2.5°  | 2253.4 | 2248.4 | 2256.8 | 2221.2 | 2228.5 | 2241.8 | 2248.4 | 2252.3 | 2307.2 | 2294.5 | 2329.4 |
| 5°    | 1758.0 | 1753.0 | 1785.2 | 1789.6 | 1806.3 | 1803.0 | 1819.0 | 1822.9 | 1842.9 | 1850.1 | 1898.9 |
| 7.5°  | 1278.7 | 1300.4 | 1337.0 | 1355.8 | 1384.1 | 1393.0 | 1384.7 | 1405.2 | 1363.6 | 1393.6 | 1402.4 |
| 10°   | 1027.4 | 1001.3 | 985.8  | 1029.1 | 1034.6 | 1075.7 | 1059.0 | 1045.7 | 1070.1 | 1071.2 | 1094.5 |
| 12.5° | 855.4  | 799.4  | 762.2  | 774.4  | 787.8  | 805.5  | 808.3  | 834.9  | 852.7  | 869.3  | 883.2  |
| 15°   | 670.7  | 651.3  | 617.4  | 600.8  | 619.7  | 626.9  | 644.1  | 666.3  | 685.1  | 690.1  | 709.0  |
| 17.5° | 514.8  | 518.1  | 512.6  | 502.6  | 514.3  | 519.8  | 520.9  | 521.5  | 526.5  | 523.1  | 550.9  |
| 20°   | 414.4  | 426.1  | 439.9  | 442.1  | 446.0  | 448.8  | 443.8  | 424.9  | 425.5  | 437.1  | 446.0  |
| 22.5° | 375.0  | 377.2  | 392.8  | 397.8  | 410.0  | 405.0  | 390.5  | 381.7  | 380.6  | 383.3  | 387.8  |
| 25°   | 343.9  | 347.3  | 358.4  | 366.1  | 375.6  | 366.7  | 356.2  | 347.8  | 346.7  | 349.5  | 353.9  |
| 27.5° | 316.2  | 321.2  | 331.2  | 339.0  | 347.8  | 339.5  | 329.5  | 322.3  | 321.8  | 321.2  | 324.0  |
| 30°   | 294.0  | 299.6  | 306.8  | 315.7  | 321.8  | 314.5  | 305.1  | 301.2  | 300.7  | 299.6  | 300.7  |
| 32.5° | 271.8  | 280.7  | 287.9  | 292.4  | 298.5  | 292.9  | 285.7  | 283.5  | 279.6  | 276.3  | 274.6  |
| 35°   | 246.9  | 256.3  | 267.4  | 272.9  | 279.0  | 273.5  | 268.5  | 259.1  | 252.4  | 251.9  | 253.0  |
| 37.5° | 232.4  | 236.3  | 245.2  | 254.6  | 260.7  | 258.0  | 248.5  | 239.1  | 237.4  | 237.4  | 238.5  |
| 40°   | 219.7  | 221.3  | 225.2  | 237.4  | 248.5  | 240.2  | 228.6  | 225.8  | 225.8  | 225.2  | 225.8  |
| 42.5° | 206.9  | 208.6  | 208.6  | 218.0  | 235.8  | 222.5  | 213.6  | 213.6  | 213.6  | 214.1  | 215.8  |
| 45°   | 195.3  | 195.8  | 195.3  | 201.9  | 218.6  | 207.5  | 201.4  | 203.0  | 204.2  | 205.3  | 206.4  |
| 47.5° | 185.3  | 185.8  | 185.3  | 190.8  | 199.2  | 194.7  | 191.4  | 193.6  | 195.8  | 197.5  | 198.6  |
| 50°   | 176.4  | 175.9  | 177.0  | 180.3  | 184.2  | 185.3  | 183.1  | 186.4  | 187.5  | 189.7  | 192.5  |
| 52.5° | 168.6  | 168.1  | 169.2  | 170.9  | 176.4  | 176.4  | 176.4  | 179.2  | 181.4  | 183.6  | 187.5  |
| 55°   | 159.8  | 160.3  | 162.0  | 164.2  | 171.4  | 170.3  | 170.9  | 173.1  | 175.3  | 178.6  | 180.9  |
| 57.5° | 151.4  | 152.6  | 154.8  | 158.1  | 165.3  | 164.8  | 165.3  | 166.4  | 169.2  | 170.9  | 173.1  |
| 60°   | 142.0  | 144.2  | 147.0  | 149.2  | 156.4  | 155.9  | 158.7  | 160.9  | 162.5  | 162.5  | 163.7  |
| 62.5° | 132.6  | 135.9  | 138.7  | 140.4  | 148.1  | 148.7  | 152.6  | 154.2  | 155.3  | 154.2  | 155.9  |
| 65°   | 123.2  | 128.1  | 129.3  | 131.5  | 139.2  | 139.8  | 144.2  | 148.1  | 147.0  | 145.9  | 148.7  |
| 67.5° | 113.7  | 119.8  | 119.3  | 122.0  | 129.8  | 130.9  | 134.8  | 141.5  | 139.2  | 138.1  | 140.4  |
| 70°   | 103.2  | 107.6  | 108.2  | 109.8  | 120.4  | 118.7  | 124.8  | 130.9  | 129.3  | 129.8  | 129.8  |
| 72.5° | 91.5   | 95.4   | 95.4   | 98.7   | 109.8  | 107.1  | 112.1  | 118.7  | 118.7  | 118.2  | 118.2  |
| 75°   | 77.7   | 79.9   | 82.1   | 87.1   | 98.7   | 95.4   | 98.7   | 104.8  | 106.0  | 104.8  | 104.8  |
| 77.5° | 62.7   | 66.0   | 67.1   | 73.8   | 82.1   | 81.5   | 84.9   | 87.7   | 89.9   | 88.8   | 88.8   |
| 80°   | 44.4   | 47.7   | 52.1   | 59.4   | 64.4   | 66.0   | 67.7   | 69.9   | 71.0   | 71.0   | 72.1   |
| 82.5° | 25.0   | 30.0   | 33.8   | 41.1   | 43.3   | 51.6   | 51.0   | 52.7   | 51.0   | 44.9   | 49.9   |
| 85°   | 5.5    | 10.5   | 15.0   | 18.9   | 21.6   | 30.0   | 31.6   | 35.5   | 29.4   | 27.2   | 27.2   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 4.4    | 8.9    | 12.2   | 10.5   | 8.9    | 8.9    |
| 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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|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 359°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 |
| 2.5°  | 2358.8 | 2407.1 | 2465.3 | 2565.8 | 2636.2 | 2712.2 | 2788.8 | 2870.3 | 2891.9 | 2914.1 |
| 5°    | 1912.2 | 2007.1 | 2058.7 | 2193.5 | 2335.0 | 2514.7 | 2661.7 | 2822.6 | 2889.7 | 2905.3 |
| 7.5°  | 1448.5 | 1512.8 | 1648.2 | 1784.7 | 1960.0 | 2148.6 | 2373.8 | 2624.6 | 2702.8 | 2735.5 |
| 10°   | 1148.3 | 1236.0 | 1354.7 | 1501.2 | 1654.8 | 1857.9 | 2112.0 | 2404.9 | 2515.8 | 2534.1 |
| 12.5° | 977.5  | 1075.1 | 1204.4 | 1359.2 | 1504.5 | 1657.6 | 1913.9 | 2216.3 | 2335.0 | 2374.4 |
| 15°   | 781.7  | 899.8  | 1049.0 | 1212.1 | 1370.3 | 1537.8 | 1797.4 | 2138.6 | 2275.6 | 2321.7 |
| 17.5° | 614.1  | 709.5  | 871.0  | 1047.9 | 1235.4 | 1447.4 | 1773.0 | 2175.8 | 2344.4 | 2387.1 |
| 20°   | 469.9  | 538.1  | 674.0  | 861.0  | 1080.7 | 1358.0 | 1779.1 | 2316.1 | 2518.0 | 2576.3 |
| 22.5° | 406.1  | 441.0  | 523.7  | 701.8  | 947.5  | 1280.4 | 1804.1 | 2508.6 | 2752.2 | 2849.2 |
| 25°   | 367.8  | 386.1  | 432.7  | 549.2  | 820.5  | 1204.9 | 1861.2 | 2767.7 | 3079.5 | 3143.8 |
| 27.5° | 335.1  | 348.4  | 377.2  | 461.0  | 705.1  | 1135.0 | 1927.8 | 3055.0 | 3385.1 | 3481.1 |
| 30°   | 304.0  | 321.8  | 348.9  | 409.4  | 631.3  | 1071.2 | 2011.5 | 3288.0 | 3642.5 | 3731.9 |
| 32.5° | 280.2  | 297.9  | 322.9  | 373.4  | 568.6  | 1004.1 | 2061.5 | 3492.8 | 3852.8 | 3928.8 |
| 35°   | 260.7  | 275.7  | 301.8  | 344.5  | 520.9  | 953.1  | 2051.5 | 3655.3 | 4056.4 | 4134.1 |
| 37.5° | 246.9  | 259.6  | 285.7  | 317.3  | 484.9  | 899.8  | 2046.5 | 3870.0 | 4304.4 | 4394.2 |
| 40°   | 234.1  | 247.4  | 271.3  | 299.6  | 448.8  | 837.1  | 2049.3 | 4083.0 | 4568.4 | 4658.3 |
| 42.5° | 224.1  | 239.1  | 258.5  | 294.6  | 411.6  | 786.6  | 2049.3 | 4268.3 | 4798.1 | 4884.6 |
| 45°   | 215.8  | 231.9  | 250.8  | 294.0  | 382.2  | 748.4  | 2035.4 | 4427.5 | 4981.2 | 5054.9 |
| 47.5° | 208.6  | 226.3  | 253.5  | 284.0  | 375.0  | 720.6  | 2023.2 | 4555.1 | 5130.4 | 5199.7 |
| 50°   | 203.6  | 224.7  | 269.6  | 272.4  | 377.2  | 712.3  | 2082.0 | 4716.0 | 5261.9 | 5321.8 |
| 52.5° | 199.7  | 225.2  | 269.1  | 255.2  | 373.4  | 717.9  | 2204.6 | 4967.3 | 5444.4 | 5448.8 |
| 55°   | 191.9  | 224.7  | 255.2  | 235.8  | 357.3  | 727.3  | 2362.2 | 5332.3 | 5730.1 | 5733.4 |
| 57.5° | 184.2  | 218.6  | 236.9  | 219.1  | 324.5  | 727.3  | 2551.9 | 5677.9 | 6074.6 | 6077.4 |
| 60°   | 176.4  | 227.5  | 208.0  | 204.7  | 281.8  | 714.0  | 2752.2 | 5829.9 | 6182.8 | 6211.1 |
| 62.5° | 168.6  | 229.1  | 185.8  | 191.9  | 250.8  | 681.8  | 2901.4 | 5661.9 | 6036.3 | 6076.8 |
| 65°   | 159.8  | 184.7  | 171.4  | 178.6  | 234.7  | 628.0  | 2854.2 | 5354.0 | 5761.2 | 5809.4 |
| 67.5° | 149.2  | 156.4  | 155.9  | 164.8  | 229.1  | 548.7  | 2605.7 | 4964.5 | 5464.9 | 5462.1 |
| 70°   | 136.5  | 140.4  | 142.0  | 151.4  | 218.6  | 487.1  | 2171.3 | 4459.1 | 5069.4 | 5131.5 |
| 72.5° | 123.2  | 126.5  | 128.1  | 136.5  | 208.0  | 452.1  | 1685.4 | 3762.9 | 4390.9 | 4488.0 |
| 75°   | 108.7  | 111.0  | 113.2  | 120.4  | 196.9  | 400.5  | 1200.5 | 2872.5 | 3362.9 | 3515.5 |
| 77.5° | 93.8   | 93.8   | 96.5   | 103.7  | 165.9  | 330.6  | 805.5  | 2014.9 | 2278.4 | 2434.3 |
| 80°   | 76.0   | 76.6   | 75.4   | 83.2   | 122.0  | 226.3  | 457.7  | 1345.8 | 1516.2 | 1546.1 |
| 82.5° | 58.2   | 56.6   | 57.1   | 61.0   | 91.0   | 154.2  | 244.1  | 836.0  | 852.1  | 835.5  |
| 85°   | 36.6   | 36.6   | 35.5   | 39.9   | 58.2   | 80.4   | 133.1  | 512.0  | 400.0  | 380.6  |
| 87.5° | 15.0   | 12.2   | 13.9   | 16.1   | 27.7   | 32.7   | 52.1   | 105.4  | 40.5   | 37.2   |
| 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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