

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: LUMARK

Report Number: P969367

Luminaire Tested: **NAV-SB5D-750-U-SLL-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P969367  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB5D-750-U-SLL-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 42542.6 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 364.9  
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



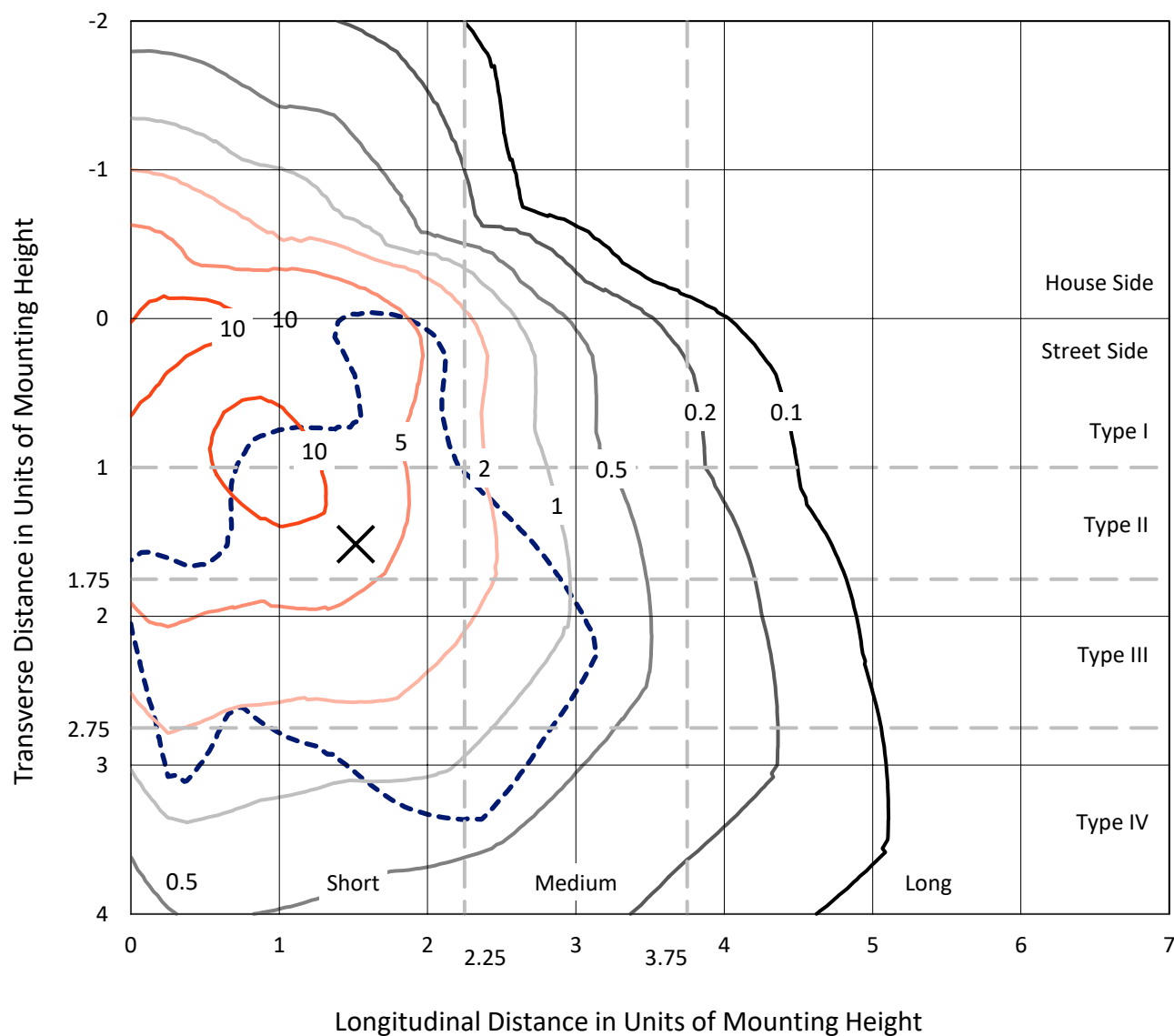
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

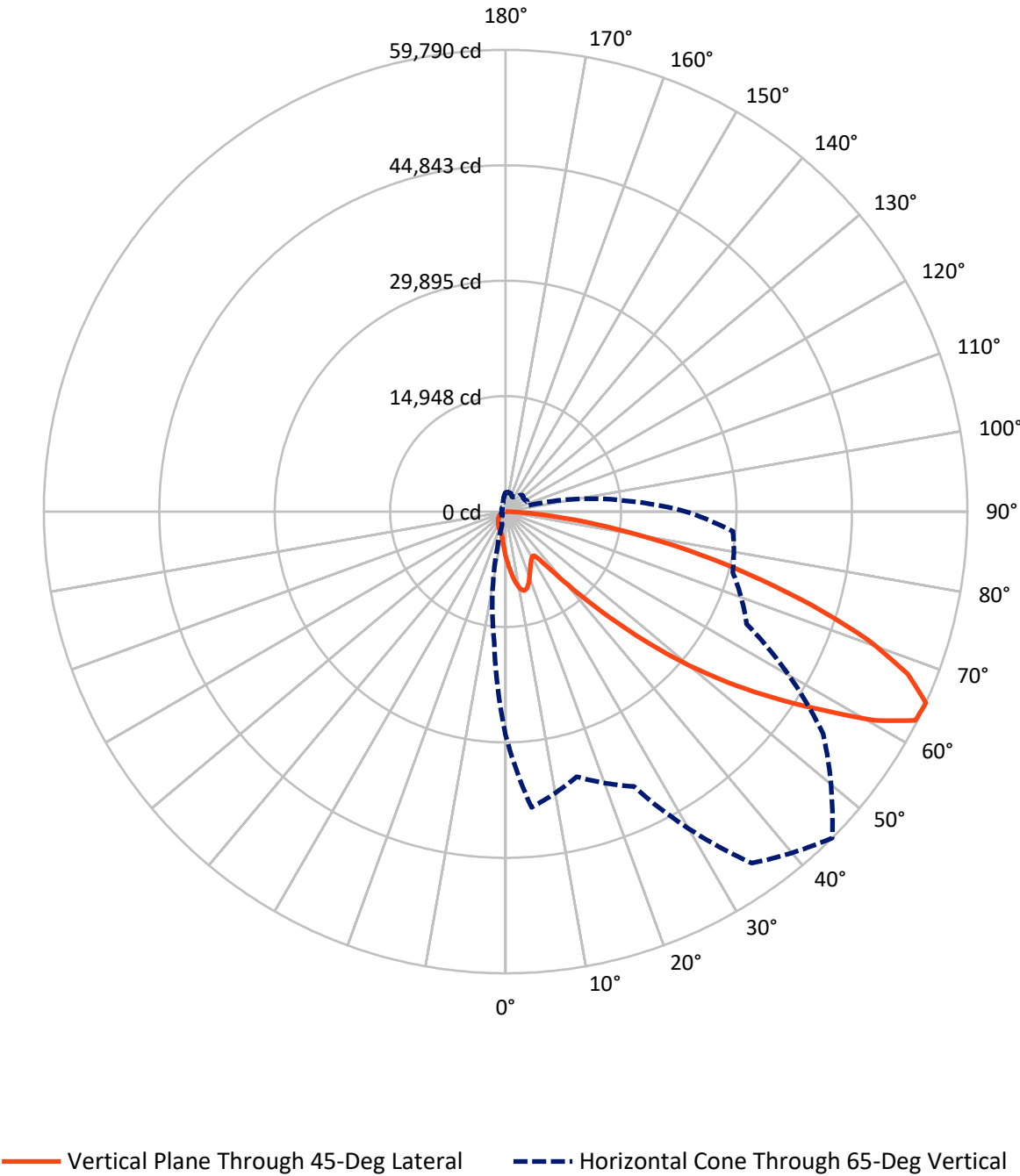


Based on 25 foot mounting height. Maximum calculated value = 15.5 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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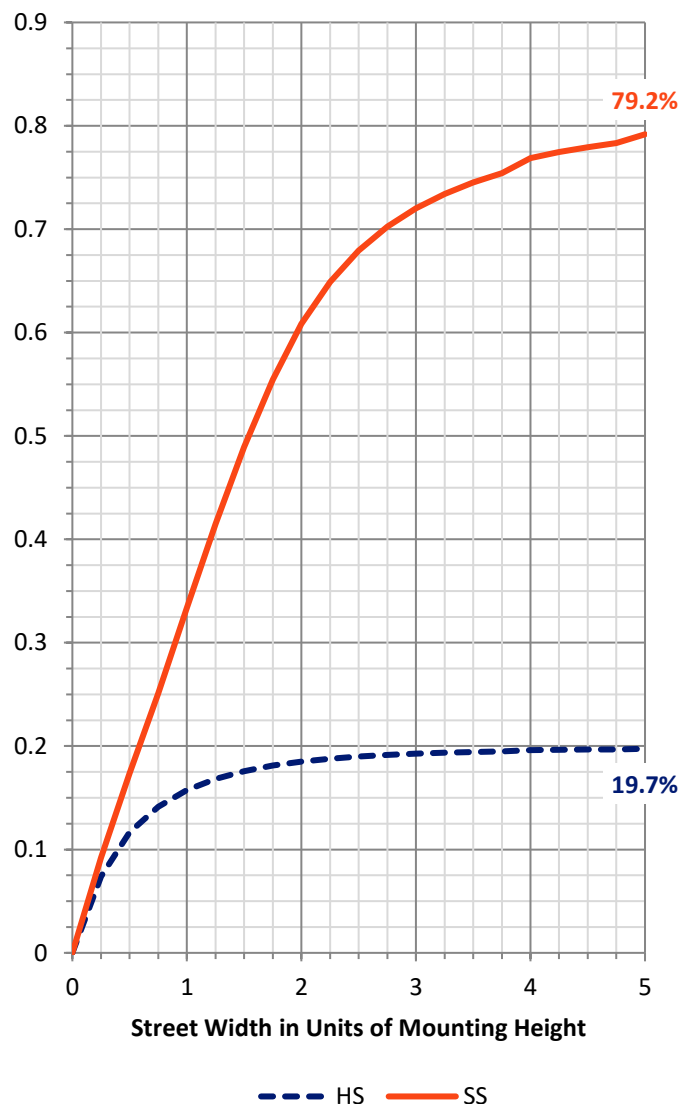
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8456.2   | 0.0    | 8456.2  |
|                    | % Fixture | 19.9     | 0.0    | 19.9    |
| <b>Street Side</b> | Lumens    | 34086.5  | 0.0    | 34086.5 |
|                    | % Fixture | 80.1     | 0.0    | 80.1    |
| <b>Total</b>       | Lumens    | 42542.6  | 0.0    | 42542.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 580.0   | 1.4       |
| 10°-20°   | 1738.6  | 4.1       |
| 20°-30°   | 2561.3  | 6.0       |
| 30°-40°   | 3290.5  | 7.7       |
| 40°-50°   | 5321.8  | 12.5      |
| 50°-60°   | 9332.2  | 21.9      |
| 60°-70°   | 11677.2 | 27.4      |
| 70°-80°   | 6823.6  | 16.0      |
| 80°-90°   | 1217.4  | 2.9       |
| 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°    | 42542.6 | 100.0     |
| 0°-180°   | 42542.6 | 100.0     |

**Coefficient of Utilization**



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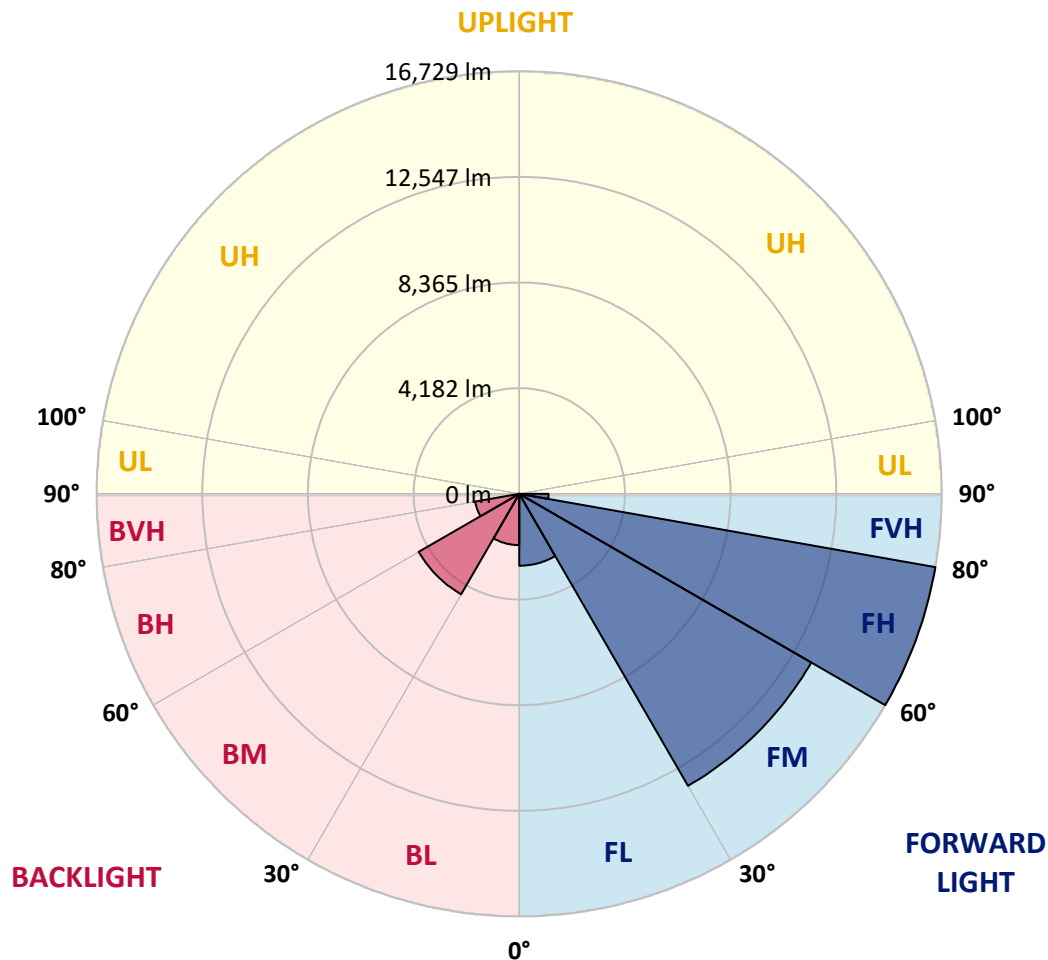
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2846.6  | 6.7       |                         |      |         |
| FM   | (30°-60°)   | 13350.4 | 31.4      |                         |      |         |
| FH   | (60°-80°)   | 16729.1 | 39.3      |                         |      | G5      |
| FVH  | (80°-90°)   | 1160.4  | 2.7       |                         |      | G5      |
| BL   | (0°-30°)    | 2033.2  | 4.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4594.2  | 10.8      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1771.7  | 4.2       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 57.1    | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5890.8  | 5890.8  | 5890.8  | 5890.8  | 5890.8  | 5890.8  | 5890.8  | 5890.8  | 5890.8  | 5890.8  | 5890.8  |
| 2.5°  | 6600.1  | 6649.9  | 6761.2  | 6819.8  | 6910.7  | 6916.6  | 6916.6  | 6837.5  | 6834.5  | 6673.3  | 6655.7  |
| 5°    | 7376.7  | 7493.9  | 7757.7  | 8030.3  | 8088.9  | 8103.5  | 8074.2  | 7916.0  | 7798.7  | 7485.2  | 7417.7  |
| 7.5°  | 8147.4  | 8373.1  | 8774.6  | 9138.1  | 9255.2  | 9255.2  | 9184.9  | 8927.0  | 8686.7  | 8232.5  | 8062.4  |
| 10°   | 8786.4  | 9070.6  | 9615.7  | 10023.2 | 10158.0 | 10128.6 | 9985.0  | 9659.7  | 9328.5  | 8777.6  | 8554.9  |
| 12.5° | 9208.4  | 9527.9  | 10125.7 | 10454.0 | 10591.7 | 10515.5 | 10351.4 | 10034.9 | 9686.1  | 9105.8  | 8853.7  |
| 15°   | 9419.4  | 9753.5  | 10272.2 | 10445.2 | 10407.0 | 10327.9 | 10307.4 | 10155.0 | 9891.2  | 9349.0  | 9073.6  |
| 17.5° | 9510.3  | 9820.9  | 10181.4 | 10073.0 | 9750.6  | 9689.0  | 9894.2  | 10087.6 | 10023.2 | 9560.1  | 9302.2  |
| 20°   | 9595.2  | 9856.1  | 9964.5  | 9483.9  | 8921.2  | 8865.5  | 9258.2  | 9809.1  | 10090.5 | 9756.5  | 9519.1  |
| 22.5° | 9712.5  | 9873.7  | 9650.9  | 8862.6  | 8255.9  | 8126.9  | 8560.7  | 9390.1  | 10111.1 | 10005.5 | 9768.1  |
| 25°   | 9873.7  | 9917.6  | 9305.2  | 8273.5  | 7663.9  | 7535.0  | 7939.3  | 8924.1  | 10075.9 | 10275.2 | 10073.0 |
| 27.5° | 10067.1 | 9976.2  | 8974.0  | 7781.1  | 7192.0  | 7071.9  | 7476.4  | 8475.7  | 9976.2  | 10544.8 | 10401.2 |
| 30°   | 10319.2 | 10052.5 | 8645.7  | 7400.1  | 6855.0  | 6767.0  | 7156.9  | 8088.9  | 9853.1  | 10887.8 | 10808.6 |
| 32.5° | 10574.1 | 10084.7 | 8340.9  | 7177.4  | 6778.8  | 6811.0  | 7130.5  | 7880.8  | 9718.3  | 11216.0 | 11254.1 |
| 35°   | 10849.6 | 10187.3 | 8191.4  | 7397.2  | 7414.7  | 7696.1  | 7828.0  | 8074.2  | 9697.8  | 11661.4 | 11810.9 |
| 37.5° | 11224.8 | 10415.8 | 8370.2  | 8490.4  | 9099.9  | 9683.2  | 9574.7  | 9020.8  | 9935.2  | 12326.8 | 12605.1 |
| 40°   | 11764.0 | 10817.3 | 9149.8  | 10351.4 | 11602.8 | 12549.5 | 12136.2 | 10741.2 | 10662.0 | 13285.0 | 13701.2 |
| 42.5° | 12549.5 | 11456.3 | 10533.1 | 12625.6 | 14747.5 | 16306.6 | 15198.8 | 12959.8 | 11934.0 | 14653.7 | 15184.1 |
| 45°   | 13710.0 | 12490.9 | 12206.5 | 15025.9 | 18624.9 | 21080.9 | 18777.3 | 15324.9 | 13715.8 | 16725.7 | 17141.9 |
| 47.5° | 15319.0 | 14011.9 | 13774.5 | 17555.2 | 23337.5 | 26514.4 | 22745.5 | 17517.0 | 15743.9 | 19551.0 | 19647.7 |
| 50°   | 17455.5 | 16060.4 | 15260.4 | 20321.8 | 28504.4 | 32053.5 | 26710.8 | 19633.1 | 18068.0 | 23003.4 | 22892.0 |
| 52.5° | 20274.9 | 18917.9 | 16992.4 | 22956.5 | 33817.8 | 37475.4 | 30693.6 | 21491.2 | 20951.9 | 27009.7 | 26781.1 |
| 55°   | 24120.0 | 23217.4 | 19360.5 | 25471.0 | 39128.4 | 42929.6 | 34521.2 | 23243.7 | 24761.8 | 31769.3 | 30385.9 |
| 57.5° | 28891.3 | 29536.0 | 22774.8 | 28387.2 | 43902.5 | 48550.7 | 38366.4 | 25693.8 | 29708.9 | 37091.5 | 32478.5 |
| 60°   | 31968.5 | 37938.4 | 29313.3 | 32698.3 | 49327.3 | 54907.5 | 43635.8 | 30353.7 | 34908.1 | 38999.4 | 32079.9 |
| 62.5° | 31224.2 | 40611.3 | 37144.3 | 38202.3 | 54315.5 | 59529.2 | 48799.8 | 35034.1 | 35886.9 | 36188.9 | 29008.5 |
| 65°   | 28941.1 | 38454.3 | 35547.0 | 39272.0 | 55578.6 | 59790.1 | 50180.2 | 34430.4 | 30441.6 | 29544.8 | 23317.0 |
| 67.5° | 25799.4 | 35895.7 | 31751.6 | 36435.0 | 53295.6 | 56144.3 | 47609.9 | 30456.2 | 23525.1 | 22171.1 | 16916.3 |
| 70°   | 22408.4 | 33064.7 | 29260.6 | 33252.2 | 48943.4 | 49790.4 | 43240.1 | 26786.9 | 17303.1 | 14973.2 | 10855.5 |
| 72.5° | 19190.5 | 30116.3 | 27554.9 | 29990.3 | 43137.6 | 41385.0 | 37551.6 | 23542.6 | 12599.3 | 10799.8 | 7716.6  |
| 75°   | 15899.3 | 25767.1 | 25125.2 | 26115.9 | 35503.0 | 32598.7 | 31200.7 | 19492.3 | 9888.3  | 7813.4  | 5325.2  |
| 77.5° | 12268.1 | 20134.2 | 21611.3 | 20913.8 | 24990.4 | 24213.8 | 24184.5 | 14647.9 | 7224.3  | 5213.8  | 3338.1  |
| 80°   | 8396.6  | 14032.4 | 16884.0 | 14753.3 | 16218.7 | 15823.0 | 18214.6 | 9826.8  | 5240.2  | 3138.9  | 1858.1  |
| 82.5° | 4935.4  | 8543.1  | 11752.2 | 7142.2  | 8968.0  | 9205.4  | 10846.7 | 4780.1  | 3083.1  | 723.9   | 404.5   |
| 85°   | 2001.7  | 3373.3  | 4595.4  | 2795.9  | 4325.8  | 3648.8  | 4117.7  | 1342.2  | 858.7   | 17.6    | 0.0     |
| 87.5° | 504.1   | 1078.5  | 756.1   | 313.5   | 501.1   | 460.1   | 363.4   | 164.1   | 35.2    | 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):**

|       | 95°     | 105°    | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5890.8  | 5890.8  | 5890.8 | 5890.8 | 5890.8 | 5890.8 | 5890.8 | 5890.8 | 5890.8 | 5890.8 | 5890.8 |
| 2.5°  | 6541.4  | 6474.0  | 6306.9 | 6140.0 | 6005.1 | 5823.4 | 5703.2 | 5559.6 | 5421.8 | 5298.7 | 5275.4 |
| 5°    | 7233.1  | 7010.4  | 6705.6 | 6427.2 | 6142.8 | 5867.3 | 5594.8 | 5307.6 | 5043.8 | 4882.6 | 4780.1 |
| 7.5°  | 7795.7  | 7403.1  | 6998.6 | 6643.9 | 6301.1 | 5978.7 | 5618.2 | 5269.5 | 4856.2 | 4636.5 | 4437.1 |
| 10°   | 8214.9  | 7699.1  | 7168.6 | 6761.2 | 6415.4 | 6101.8 | 5797.0 | 5445.3 | 4947.1 | 4671.6 | 4372.6 |
| 12.5° | 8490.4  | 7877.8  | 7256.5 | 6790.5 | 6403.7 | 6160.5 | 6025.6 | 5887.9 | 5392.5 | 5070.2 | 4636.5 |
| 15°   | 8680.8  | 8003.8  | 7318.1 | 6723.1 | 6248.3 | 6069.5 | 6204.4 | 6362.7 | 6046.2 | 5673.9 | 5108.3 |
| 17.5° | 8888.9  | 8168.0  | 7344.4 | 6541.4 | 5946.4 | 5870.3 | 6219.1 | 6585.4 | 6570.8 | 6201.5 | 5647.5 |
| 20°   | 9108.8  | 8311.6  | 7326.9 | 6248.3 | 5580.1 | 5647.5 | 6093.0 | 6518.0 | 6696.7 | 6497.5 | 6005.1 |
| 22.5° | 9334.4  | 8449.3  | 7259.5 | 5867.3 | 5237.2 | 5448.3 | 5893.7 | 6265.9 | 6477.0 | 6415.4 | 6040.2 |
| 25°   | 9618.7  | 8642.8  | 7159.8 | 5457.0 | 4953.0 | 5246.1 | 5662.2 | 5964.1 | 6110.6 | 6107.7 | 5849.8 |
| 27.5° | 9958.7  | 8900.7  | 7107.0 | 5125.8 | 4750.8 | 5017.5 | 5386.7 | 5656.4 | 5758.9 | 5758.9 | 5553.8 |
| 30°   | 10354.3 | 9205.4  | 7048.4 | 4909.0 | 4633.5 | 4780.1 | 5067.3 | 5331.0 | 5433.6 | 5433.6 | 5260.7 |
| 32.5° | 10794.0 | 9498.6  | 6907.8 | 4777.1 | 4545.6 | 4548.5 | 4730.2 | 4970.5 | 5093.6 | 5111.3 | 4988.2 |
| 35°   | 11321.4 | 9812.1  | 6600.1 | 4671.6 | 4443.0 | 4322.8 | 4410.8 | 4610.0 | 4756.6 | 4794.7 | 4718.5 |
| 37.5° | 12013.1 | 10196.1 | 6160.5 | 4516.3 | 4284.7 | 4085.4 | 4105.9 | 4258.4 | 4419.6 | 4478.2 | 4428.3 |
| 40°   | 12942.2 | 10647.4 | 5703.2 | 4293.5 | 4062.0 | 3824.6 | 3815.9 | 3927.2 | 4085.4 | 4149.9 | 4123.6 |
| 42.5° | 14170.1 | 11189.6 | 5266.6 | 4079.6 | 3792.4 | 3549.2 | 3534.5 | 3622.4 | 3760.1 | 3827.6 | 3815.9 |
| 45°   | 15741.0 | 11854.8 | 4891.4 | 3912.5 | 3528.7 | 3288.3 | 3282.5 | 3355.7 | 3475.9 | 3546.2 | 3531.5 |
| 47.5° | 17924.4 | 12520.2 | 4636.5 | 3824.6 | 3320.5 | 3074.4 | 3086.1 | 3150.5 | 3259.0 | 3308.8 | 3288.3 |
| 50°   | 20770.2 | 12722.4 | 4507.4 | 3824.6 | 3209.2 | 2883.8 | 2942.5 | 2995.3 | 3077.3 | 3106.6 | 3080.2 |
| 52.5° | 23501.6 | 12054.1 | 4390.3 | 3848.1 | 3223.8 | 2722.7 | 2848.7 | 2886.8 | 2957.1 | 2968.8 | 2930.8 |
| 55°   | 24841.0 | 10363.1 | 4229.0 | 3853.9 | 3314.6 | 2584.9 | 2772.5 | 2842.8 | 2869.2 | 2866.3 | 2801.8 |
| 57.5° | 24380.9 | 8379.0  | 3956.5 | 3830.5 | 3376.2 | 2497.0 | 2678.7 | 2813.5 | 2831.0 | 2804.7 | 2684.6 |
| 60°   | 22766.0 | 6169.2  | 3748.4 | 3657.6 | 3352.8 | 2470.7 | 2535.1 | 2749.0 | 2775.4 | 2740.2 | 2543.8 |
| 62.5° | 20058.0 | 4281.8  | 3587.2 | 3276.6 | 3250.2 | 2461.8 | 2309.4 | 2608.3 | 2672.8 | 2623.0 | 2335.8 |
| 65°   | 15790.8 | 3024.6  | 3089.0 | 2872.2 | 3027.4 | 2414.9 | 2075.0 | 2438.4 | 2526.3 | 2450.1 | 2045.7 |
| 67.5° | 10685.5 | 2183.4  | 2502.8 | 2602.5 | 2666.9 | 2309.4 | 1905.0 | 2245.0 | 2362.2 | 2262.5 | 1708.6 |
| 70°   | 5770.6  | 1532.8  | 1652.9 | 2192.2 | 2265.5 | 2127.7 | 1752.5 | 2048.6 | 2183.4 | 2075.0 | 1392.1 |
| 72.5° | 3408.4  | 1102.0  | 1157.6 | 1761.4 | 1887.4 | 1872.8 | 1582.6 | 1820.0 | 1984.1 | 1855.1 | 1131.3 |
| 75°   | 1878.6  | 744.5   | 826.5  | 1277.8 | 1532.8 | 1444.8 | 1359.9 | 1541.6 | 1708.6 | 1582.6 | 873.4  |
| 77.5° | 841.1   | 445.5   | 574.4  | 838.1  | 1204.6 | 990.6  | 1052.2 | 1201.6 | 1356.9 | 1225.1 | 583.2  |
| 80°   | 325.3   | 249.1   | 381.0  | 457.2  | 876.3  | 548.1  | 677.0  | 885.1  | 996.4  | 890.9  | 354.6  |
| 82.5° | 41.0    | 111.4   | 164.1  | 178.8  | 509.9  | 290.2  | 392.7  | 556.9  | 548.1  | 474.8  | 178.8  |
| 85°   | 0.0     | 20.5    | 23.5   | 11.7   | 219.8  | 105.5  | 128.9  | 181.7  | 169.9  | 128.9  | 14.7   |
| 87.5° | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 5.8    | 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):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5890.8 | 5890.8 | 5890.8 | 5890.8 | 5890.8 | 5890.8 | 5890.8 | 5890.8 | 5890.8 | 5890.8 | 5890.8 |
| 2.5°  | 5131.8 | 5026.2 | 4973.5 | 4929.5 | 4970.5 | 4994.0 | 4994.0 | 5093.6 | 5152.3 | 5175.7 | 5339.8 |
| 5°    | 4522.1 | 4325.8 | 4193.9 | 4114.8 | 4141.1 | 4170.4 | 4202.7 | 4328.7 | 4413.6 | 4469.4 | 4724.3 |
| 7.5°  | 4041.5 | 3742.6 | 3557.9 | 3461.2 | 3475.9 | 3496.4 | 3522.7 | 3645.8 | 3730.8 | 3804.1 | 4088.4 |
| 10°   | 3804.1 | 3382.1 | 3138.9 | 3021.6 | 3001.1 | 2989.3 | 2980.6 | 3053.8 | 3118.4 | 3176.9 | 3458.2 |
| 12.5° | 3815.9 | 3226.7 | 2930.8 | 2787.2 | 2725.6 | 2655.3 | 2599.6 | 2611.3 | 2652.3 | 2725.6 | 2904.3 |
| 15°   | 3965.3 | 3176.9 | 2822.3 | 2643.6 | 2541.0 | 2458.9 | 2391.5 | 2376.9 | 2391.5 | 2403.2 | 2514.5 |
| 17.5° | 4167.5 | 3171.0 | 2728.5 | 2505.8 | 2400.2 | 2332.9 | 2271.3 | 2250.8 | 2253.8 | 2268.4 | 2297.7 |
| 20°   | 4328.7 | 3153.5 | 2623.0 | 2373.9 | 2280.1 | 2221.5 | 2160.0 | 2139.5 | 2145.3 | 2148.2 | 2180.5 |
| 22.5° | 4413.6 | 3127.1 | 2505.8 | 2242.0 | 2162.9 | 2104.2 | 2048.6 | 2045.7 | 2045.7 | 2063.2 | 2086.7 |
| 25°   | 4413.6 | 3071.4 | 2400.2 | 2116.0 | 2045.7 | 1992.9 | 1925.5 | 1937.2 | 1943.1 | 1966.6 | 2001.7 |
| 27.5° | 4308.2 | 2965.9 | 2315.3 | 2007.6 | 1934.3 | 1881.5 | 1820.0 | 1834.6 | 1843.5 | 1869.8 | 1913.8 |
| 30°   | 4173.4 | 2839.9 | 2218.6 | 1905.0 | 1820.0 | 1781.9 | 1729.2 | 1735.0 | 1746.7 | 1776.0 | 1825.8 |
| 32.5° | 4029.8 | 2690.4 | 2139.5 | 1802.4 | 1717.4 | 1688.1 | 1629.4 | 1638.3 | 1650.0 | 1682.2 | 1737.9 |
| 35°   | 3871.5 | 2514.5 | 2045.7 | 1708.6 | 1623.6 | 1600.2 | 1532.8 | 1538.6 | 1556.3 | 1591.4 | 1647.1 |
| 37.5° | 3704.5 | 2370.9 | 1951.9 | 1617.8 | 1529.8 | 1506.4 | 1436.0 | 1442.0 | 1462.5 | 1503.5 | 1556.3 |
| 40°   | 3540.4 | 2230.3 | 1852.3 | 1521.1 | 1433.2 | 1412.7 | 1336.4 | 1342.2 | 1365.7 | 1409.7 | 1465.3 |
| 42.5° | 3361.6 | 2121.9 | 1723.2 | 1421.4 | 1327.6 | 1307.1 | 1236.8 | 1245.6 | 1271.9 | 1315.9 | 1371.6 |
| 45°   | 3147.6 | 2051.5 | 1579.6 | 1327.6 | 1222.1 | 1201.6 | 1137.1 | 1154.7 | 1184.0 | 1227.9 | 1286.6 |
| 47.5° | 2927.8 | 2022.2 | 1459.5 | 1227.9 | 1113.7 | 1096.1 | 1043.3 | 1072.7 | 1104.8 | 1140.1 | 1204.6 |
| 50°   | 2716.8 | 1984.1 | 1336.4 | 1134.2 | 1019.9 | 1002.3 | 967.2  | 1005.2 | 1037.5 | 1069.7 | 1131.3 |
| 52.5° | 2476.5 | 1902.1 | 1225.1 | 1052.2 | 940.7  | 934.9  | 917.3  | 952.5  | 981.8  | 1011.1 | 1063.8 |
| 55°   | 2227.3 | 1770.2 | 1128.3 | 978.9  | 873.4  | 879.2  | 870.4  | 899.7  | 923.2  | 949.6  | 996.4  |
| 57.5° | 2010.5 | 1603.1 | 1052.2 | 899.7  | 814.8  | 832.3  | 820.6  | 835.3  | 849.9  | 882.1  | 920.2  |
| 60°   | 1790.7 | 1403.8 | 967.2  | 806.0  | 756.1  | 776.6  | 744.5  | 741.5  | 747.3  | 756.1  | 826.5  |
| 62.5° | 1494.7 | 1195.8 | 861.6  | 723.9  | 691.7  | 700.5  | 638.9  | 592.0  | 592.0  | 600.8  | 706.3  |
| 65°   | 1201.6 | 1002.3 | 744.5  | 630.1  | 603.7  | 597.9  | 509.9  | 445.5  | 439.6  | 466.0  | 556.9  |
| 67.5° | 987.7  | 832.3  | 627.2  | 524.6  | 507.1  | 512.9  | 448.4  | 384.0  | 378.0  | 407.3  | 474.8  |
| 70°   | 817.6  | 671.2  | 501.1  | 404.5  | 422.0  | 448.4  | 384.0  | 322.4  | 313.5  | 340.0  | 404.5  |
| 72.5° | 650.7  | 524.6  | 384.0  | 298.9  | 348.8  | 381.0  | 313.5  | 255.0  | 249.1  | 272.5  | 334.2  |
| 75°   | 477.8  | 375.2  | 260.9  | 216.9  | 269.7  | 298.9  | 228.6  | 181.7  | 172.9  | 193.4  | 255.0  |
| 77.5° | 296.0  | 211.0  | 164.1  | 128.9  | 184.6  | 199.3  | 120.1  | 105.5  | 102.6  | 117.3  | 161.2  |
| 80°   | 137.8  | 90.8   | 79.1   | 44.0   | 67.4   | 79.1   | 49.8   | 55.7   | 58.6   | 70.3   | 99.6   |
| 82.5° | 38.1   | 14.7   | 3.0    | 0.0    | 0.0    | 23.5   | 11.7   | 23.5   | 29.3   | 44.0   | 64.5   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 5.8    | 14.7   | 26.3   | 46.8   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 11.7   | 23.5   |
| 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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|       | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°    | 360°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0°    | 5890.8 | 5890.8 | 5890.8 | 5890.8 | 5890.8 | 5890.8 | 5890.8  | 5890.8  |
| 2.5°  | 5462.9 | 5580.1 | 5767.7 | 5961.1 | 6151.6 | 6345.1 | 6532.6  | 6600.1  |
| 5°    | 4955.9 | 5225.6 | 5597.7 | 5996.2 | 6406.6 | 6822.8 | 7203.8  | 7376.7  |
| 7.5°  | 4390.3 | 4777.1 | 5336.9 | 5961.1 | 6614.7 | 7268.3 | 7869.0  | 8147.4  |
| 10°   | 3786.6 | 4276.0 | 4914.9 | 5758.9 | 6696.7 | 7599.5 | 8425.9  | 8786.4  |
| 12.5° | 3212.0 | 3725.0 | 4431.3 | 5442.3 | 6632.3 | 7789.9 | 8783.4  | 9208.4  |
| 15°   | 2731.4 | 3185.7 | 3947.7 | 5067.3 | 6424.2 | 7801.7 | 8953.4  | 9419.4  |
| 17.5° | 2370.9 | 2666.9 | 3455.4 | 4651.0 | 6151.6 | 7693.2 | 9012.0  | 9510.3  |
| 20°   | 2192.2 | 2274.3 | 2816.4 | 4117.7 | 5896.6 | 7590.6 | 9070.6  | 9595.2  |
| 22.5° | 2086.7 | 2107.2 | 2303.6 | 3428.9 | 5591.9 | 7558.4 | 9173.2  | 9712.5  |
| 25°   | 2001.7 | 2007.6 | 2060.4 | 2716.8 | 5125.8 | 7537.8 | 9331.5  | 9873.7  |
| 27.5° | 1916.7 | 1916.7 | 1946.0 | 2189.3 | 4492.8 | 7449.9 | 9536.6  | 10067.1 |
| 30°   | 1831.7 | 1831.7 | 1852.3 | 1937.2 | 3751.4 | 7277.0 | 9782.8  | 10319.2 |
| 32.5° | 1743.8 | 1743.8 | 1761.4 | 1823.0 | 2995.3 | 7060.2 | 10008.5 | 10574.1 |
| 35°   | 1655.9 | 1650.0 | 1673.4 | 1737.9 | 2382.7 | 6784.7 | 10234.1 | 10849.6 |
| 37.5° | 1562.1 | 1559.1 | 1582.6 | 1655.9 | 2057.4 | 6465.2 | 10404.2 | 11224.8 |
| 40°   | 1462.5 | 1462.5 | 1488.8 | 1567.9 | 1963.6 | 6063.7 | 10673.7 | 11764.0 |
| 42.5° | 1371.6 | 1365.7 | 1395.0 | 1491.8 | 1893.3 | 5679.7 | 11157.3 | 12549.5 |
| 45°   | 1283.7 | 1271.9 | 1298.4 | 1418.5 | 1770.2 | 5544.9 | 12060.0 | 13710.0 |
| 47.5° | 1201.6 | 1172.3 | 1195.8 | 1330.6 | 1658.8 | 6049.0 | 13537.1 | 15319.0 |
| 50°   | 1134.2 | 1078.5 | 1099.0 | 1242.6 | 1573.8 | 7142.2 | 15453.8 | 17455.5 |
| 52.5° | 1063.8 | 990.6  | 1002.3 | 1134.2 | 1497.6 | 8182.7 | 17531.7 | 20274.9 |
| 55°   | 990.6  | 908.6  | 914.4  | 1025.7 | 1389.2 | 8338.0 | 19559.8 | 24120.0 |
| 57.5° | 908.6  | 832.3  | 832.3  | 926.1  | 1310.1 | 7227.2 | 21118.9 | 28891.3 |
| 60°   | 817.6  | 767.8  | 753.2  | 847.0  | 1380.4 | 5099.5 | 21300.6 | 31968.5 |
| 62.5° | 718.0  | 691.7  | 671.2  | 770.8  | 1433.2 | 3021.6 | 19838.2 | 31224.2 |
| 65°   | 603.7  | 597.9  | 583.2  | 847.0  | 1207.4 | 1784.8 | 17030.6 | 28941.1 |
| 67.5° | 507.1  | 498.3  | 498.3  | 888.1  | 917.3  | 1122.5 | 13305.5 | 25799.4 |
| 70°   | 436.6  | 404.5  | 404.5  | 671.2  | 556.9  | 776.6  | 9290.5  | 22408.4 |
| 72.5° | 366.3  | 331.2  | 307.7  | 536.3  | 416.2  | 568.6  | 5805.8  | 19190.5 |
| 75°   | 293.0  | 266.7  | 237.4  | 354.6  | 310.7  | 430.8  | 3373.3  | 15899.3 |
| 77.5° | 211.0  | 199.3  | 167.1  | 260.9  | 225.7  | 310.7  | 2007.6  | 12268.1 |
| 80°   | 108.4  | 111.4  | 105.5  | 149.4  | 152.4  | 211.0  | 1143.0  | 8396.6  |
| 82.5° | 64.5   | 49.8   | 55.7   | 73.3   | 87.9   | 120.1  | 430.8   | 4935.4  |
| 85°   | 41.0   | 26.3   | 26.3   | 35.2   | 44.0   | 46.8   | 131.9   | 2001.7  |
| 87.5° | 20.5   | 8.8    | 11.7   | 17.6   | 14.7   | 11.7   | 5.8     | 504.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |

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