

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: McGRAW-EDISON

Report Number: P939953

Luminaire Tested: **GALN-SB2D-750-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939953  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2D-750-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

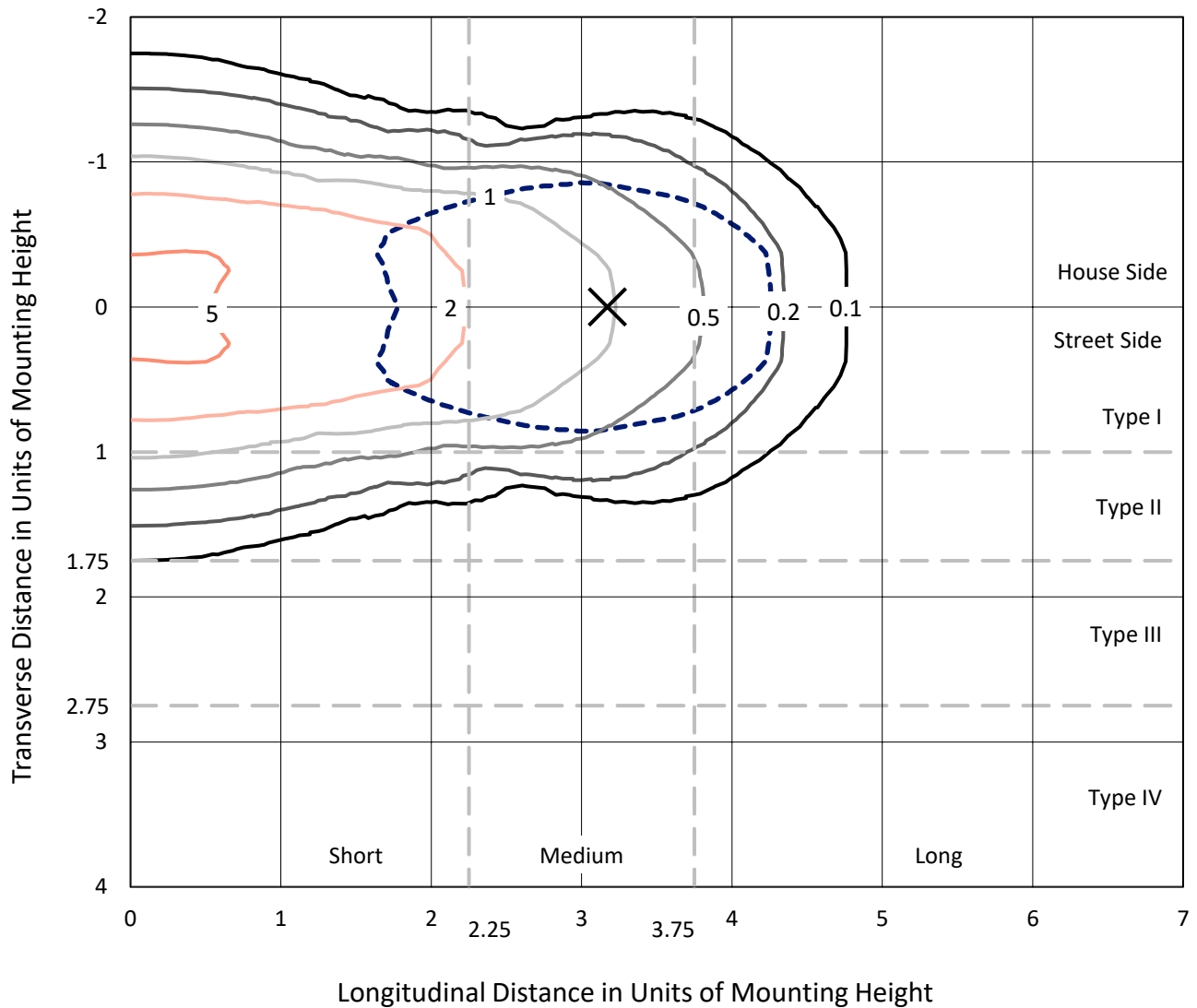
Lumens per Lamp: N/A  
Luminaire Lumens: 21299 lumens  
Efficiency: N/A  
Efficacy: 144.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

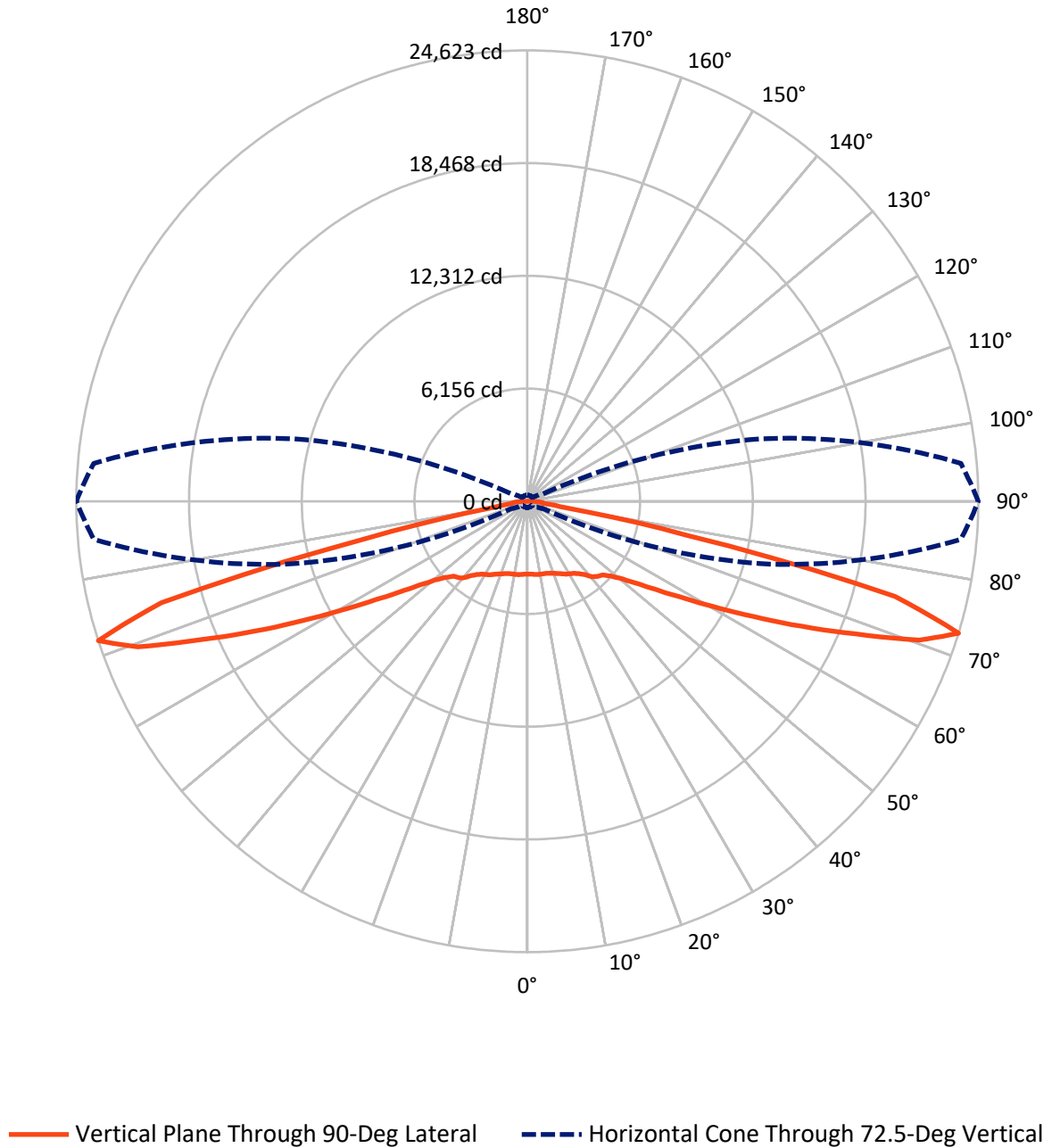
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type I - 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    | 10649.5  | 0.0    | 10649.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 10649.5  | 0.0    | 10649.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 21299.0  | 0.0    | 21299.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 385.9   | 1.8       |
| 10°-20°   | 1179.9  | 5.5       |
| 20°-30°   | 1967.4  | 9.2       |
| 30°-40°   | 2705.8  | 12.7      |
| 40°-50°   | 3304.6  | 15.5      |
| 50°-60°   | 3822.1  | 17.9      |
| 60°-70°   | 4557.2  | 21.4      |
| 70°-80°   | 3180.6  | 14.9      |
| 80°-90°   | 195.4   | 0.9       |
| 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°    | 21299.0 | 100.0     |
| 0°-180°   | 21299.0 | 100.0     |

**Coefficient of Utilization**



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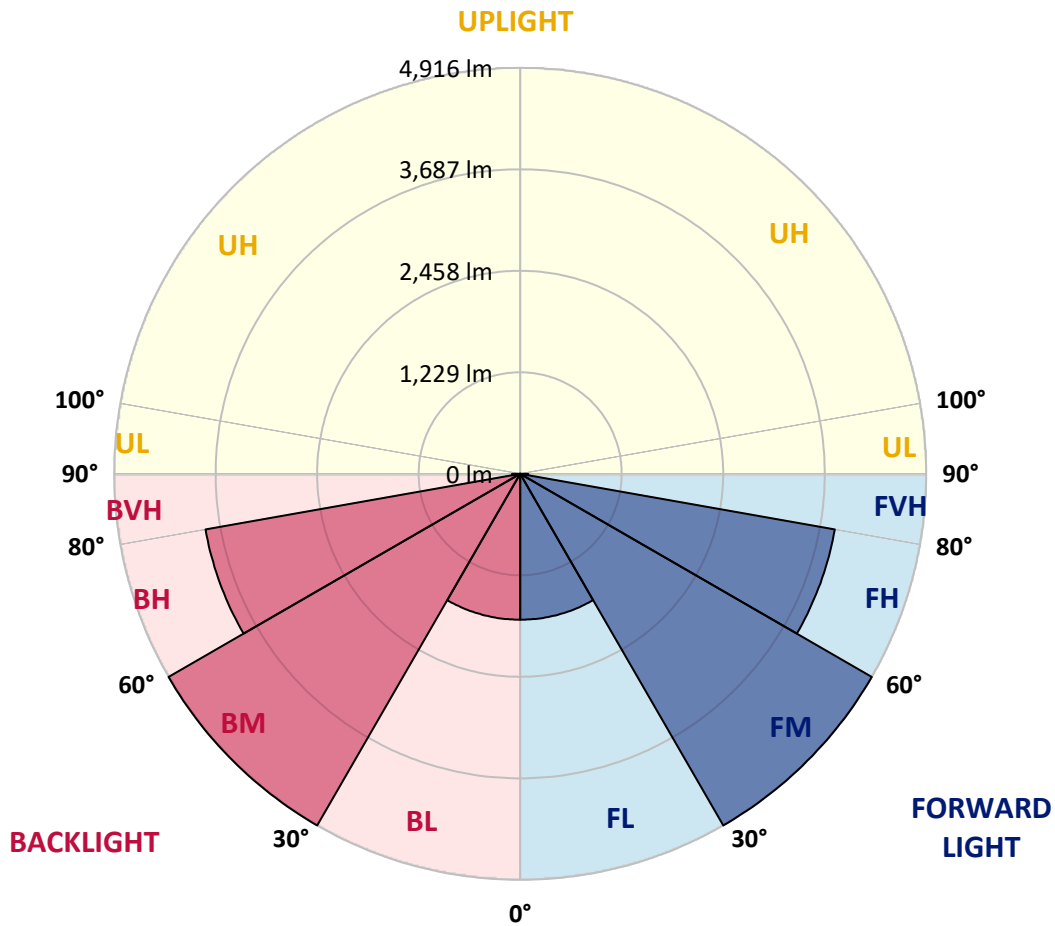
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1766.6 | 8.3       |                         |      |         |
| FM (30°-60°)   | 4916.3 | 23.1      |                         |      |         |
| FH (60°-80°)   | 3868.9 | 18.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 97.7   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 1766.6 | 8.3       | B3/2500                 |      |         |
| BM (30°-60°)   | 4916.3 | 23.1      | B3/5000                 |      |         |
| BH (60°-80°)   | 3868.9 | 18.2      | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 97.7   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0°    | 3979.9 | 3979.9 | 3979.9 | 3979.9 | 3979.9 | 3979.9 | 3979.9 | 3979.9 | 3979.9  | 3979.9  |
| 2.5°  | 3983.3 | 3987.9 | 3987.9 | 3984.5 | 3992.4 | 3985.6 | 3985.6 | 3982.2 | 3985.6  | 3982.2  |
| 5°    | 4003.7 | 4009.4 | 4011.6 | 4010.5 | 4020.7 | 4015.0 | 4015.0 | 4010.5 | 4011.6  | 4008.2  |
| 7.5°  | 4042.2 | 4050.1 | 4054.7 | 4060.3 | 4075.0 | 4068.2 | 4063.7 | 4050.1 | 4044.5  | 4035.4  |
| 10°   | 4054.7 | 4063.7 | 4078.4 | 4107.9 | 4141.8 | 4142.9 | 4129.4 | 4095.4 | 4069.4  | 4049.0  |
| 12.5° | 4016.2 | 4028.6 | 4059.2 | 4119.2 | 4195.0 | 4225.6 | 4204.1 | 4147.5 | 4096.5  | 4060.3  |
| 15°   | 3967.5 | 3981.1 | 4027.5 | 4118.0 | 4230.1 | 4301.4 | 4299.2 | 4224.4 | 4142.9  | 4086.3  |
| 17.5° | 3891.7 | 3905.2 | 3972.0 | 4098.8 | 4257.3 | 4375.0 | 4406.7 | 4329.7 | 4215.4  | 4139.5  |
| 20°   | 3754.7 | 3767.1 | 3860.0 | 4037.7 | 4266.3 | 4453.1 | 4535.7 | 4467.8 | 4325.2  | 4222.2  |
| 22.5° | 3577.0 | 3596.2 | 3704.9 | 3932.4 | 4244.8 | 4534.6 | 4682.9 | 4636.5 | 4453.1  | 4310.5  |
| 25°   | 3386.8 | 3407.2 | 3534.0 | 3803.4 | 4189.4 | 4593.5 | 4857.2 | 4827.8 | 4598.0  | 4420.3  |
| 27.5° | 3222.7 | 3244.2 | 3382.3 | 3675.4 | 4103.3 | 4616.1 | 5029.3 | 5044.0 | 4773.4  | 4541.4  |
| 30°   | 3093.6 | 3114.0 | 3261.2 | 3572.4 | 3992.4 | 4593.5 | 5179.8 | 5281.7 | 4952.3  | 4646.7  |
| 32.5° | 2952.1 | 2978.2 | 3133.2 | 3446.8 | 3861.1 | 4539.1 | 5311.1 | 5538.6 | 5159.4  | 4759.9  |
| 35°   | 2773.3 | 2797.1 | 2960.1 | 3274.7 | 3689.0 | 4452.0 | 5420.9 | 5823.9 | 5456.0  | 4931.9  |
| 37.5° | 2555.9 | 2578.6 | 2740.5 | 3059.7 | 3518.1 | 4329.7 | 5504.7 | 6145.4 | 5809.2  | 5179.8  |
| 40°   | 2337.5 | 2359.0 | 2510.7 | 2819.7 | 3313.2 | 4173.5 | 5534.1 | 6460.0 | 6214.4  | 5520.5  |
| 42.5° | 2137.1 | 2156.4 | 2295.6 | 2583.1 | 3083.4 | 3974.3 | 5495.6 | 6734.0 | 6577.8  | 5758.2  |
| 45°   | 1952.6 | 1969.6 | 2093.0 | 2361.3 | 2844.6 | 3732.0 | 5380.2 | 7028.3 | 7010.2  | 5928.0  |
| 47.5° | 1742.1 | 1759.1 | 1887.0 | 2146.2 | 2605.8 | 3447.9 | 5184.3 | 7318.1 | 7611.2  | 6312.9  |
| 50°   | 1485.1 | 1499.8 | 1631.1 | 1898.3 | 2357.9 | 3145.7 | 4912.7 | 7545.6 | 8369.7  | 6895.9  |
| 52.5° | 1180.6 | 1196.5 | 1324.4 | 1591.5 | 2063.5 | 2820.8 | 4555.0 | 7693.9 | 9245.8  | 7747.1  |
| 55°   | 878.4  | 889.7  | 1000.6 | 1240.6 | 1699.1 | 2450.7 | 4106.7 | 7735.8 | 10239.6 | 8910.7  |
| 57.5° | 637.3  | 644.1  | 715.4  | 894.2  | 1288.2 | 1987.7 | 3562.3 | 7627.1 | 11422.5 | 10402.6 |
| 60°   | 516.2  | 518.4  | 539.9  | 619.2  | 895.4  | 1464.7 | 2904.6 | 7253.5 | 12706.2 | 12325.8 |
| 62.5° | 468.6  | 468.6  | 474.3  | 495.8  | 605.6  | 966.7  | 2108.8 | 6479.3 | 14082.6 | 14756.1 |
| 65°   | 435.8  | 435.8  | 438.1  | 448.3  | 477.7  | 615.8  | 1331.2 | 5218.3 | 15242.9 | 17603.0 |
| 67.5° | 406.4  | 407.5  | 406.4  | 409.8  | 426.7  | 455.0  | 772.0  | 3604.1 | 15867.7 | 20552.9 |
| 70°   | 375.8  | 378.1  | 372.4  | 372.4  | 386.0  | 387.1  | 483.3  | 1976.4 | 15349.3 | 23025.0 |
| 72.5° | 339.6  | 343.0  | 333.9  | 331.7  | 341.8  | 337.3  | 363.4  | 948.6  | 13178.2 | 23763.1 |
| 75°   | 307.9  | 312.4  | 292.0  | 286.4  | 286.4  | 283.0  | 295.4  | 486.7  | 8553.0  | 19384.7 |
| 77.5° | 279.6  | 288.6  | 255.8  | 237.7  | 233.2  | 223.0  | 241.1  | 297.7  | 3741.1  | 9100.9  |
| 80°   | 230.9  | 243.4  | 210.5  | 189.0  | 181.1  | 169.8  | 190.2  | 208.3  | 1112.7  | 2113.4  |
| 82.5° | 172.1  | 177.7  | 149.4  | 134.7  | 127.9  | 120.0  | 142.6  | 144.9  | 362.2   | 748.2   |
| 85°   | 109.8  | 112.1  | 91.7   | 79.2   | 75.8   | 72.4   | 90.6   | 79.2   | 138.1   | 550.1   |
| 87.5° | 38.5   | 44.1   | 35.1   | 31.7   | 34.0   | 28.3   | 41.9   | 23.8   | 38.5    | 388.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |

(END C

90°

3979.9  
3982.2  
4008.2  
4035.4  
4045.6  
4054.7  
4077.3  
4127.1  
4202.9  
4284.4  
4384.0  
4502.9  
4591.2  
4689.7  
4853.8  
5075.7  
5409.6  
5615.6  
5735.6  
6091.0  
6617.4  
7404.1  
8481.7  
9862.7  
11645.5  
13844.9  
16450.7  
19308.8  
22697.9  
24623.4  
20734.0  
8911.9  
2023.9  
845.6  
799.2  
481.1  
0.0

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