

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: P951365

Luminaire Tested: **GALN-SB5C-750-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-750-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41215 lumens
Efficiency: N/A
Efficacy: 165.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

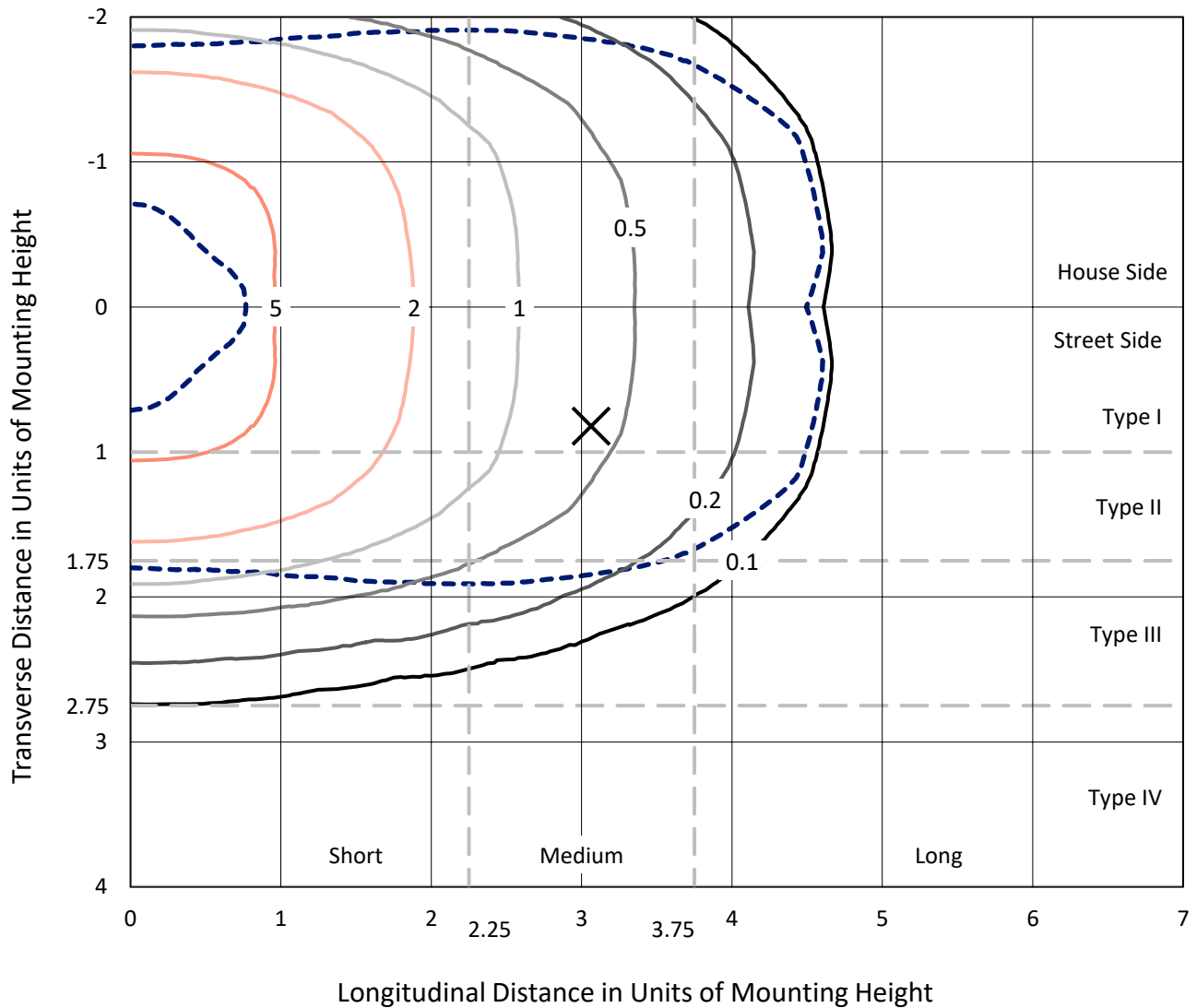
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

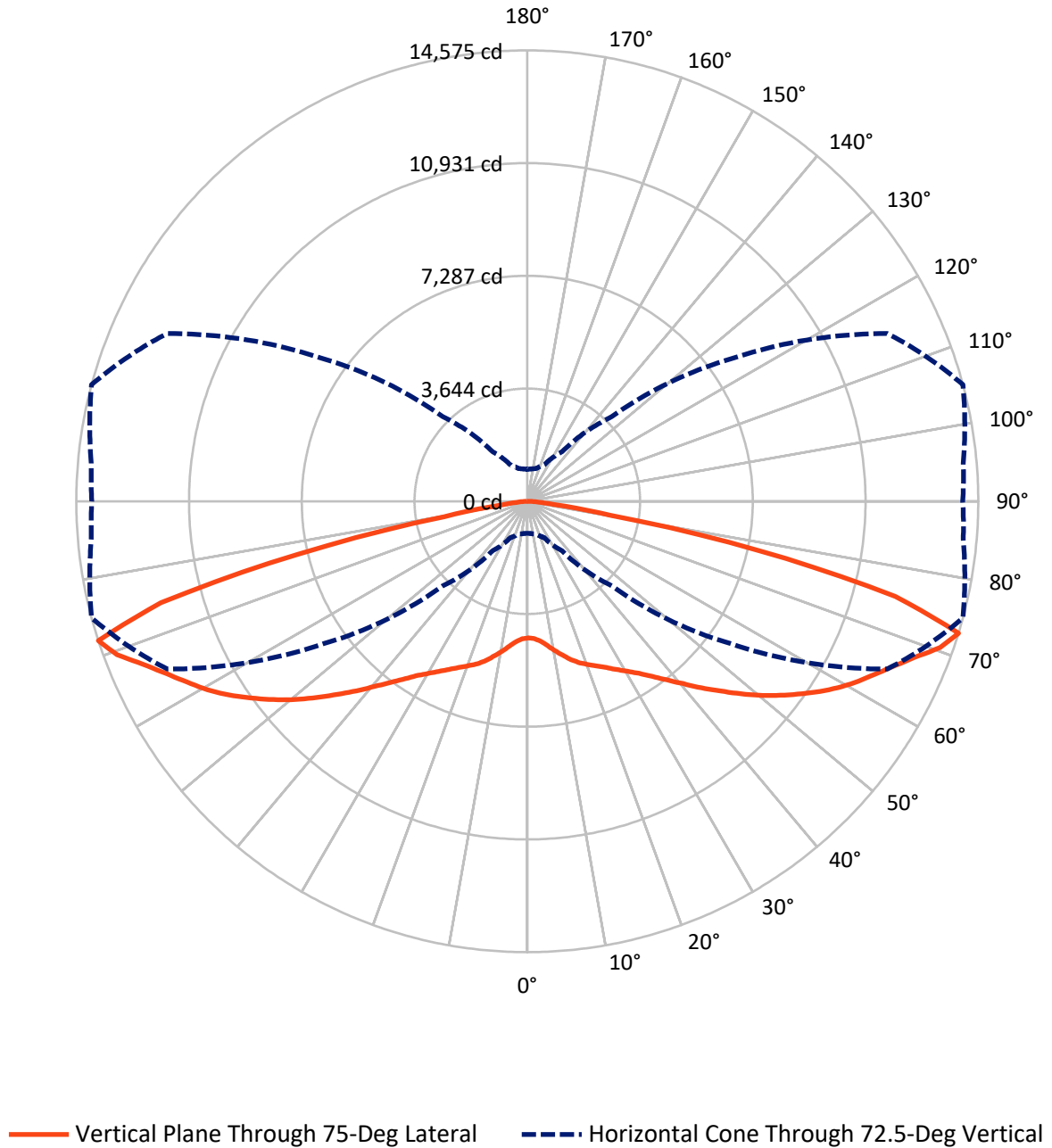
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 20607.5 | 0.0 | 20607.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 20607.5 | 0.0 | 20607.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 41215.0 | 0.0 | 41215.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 432.5 | 1.0 |
| 10°-20° | 1426.4 | 3.5 |
| 20°-30° | 2756.2 | 6.7 |
| 30°-40° | 4654.0 | 11.3 |
| 40°-50° | 7380.7 | 17.9 |
| 50°-60° | 9881.9 | 24.0 |
| 60°-70° | 9404.4 | 22.8 |
| 70°-80° | 4907.4 | 11.9 |
| 80°-90° | 371.5 | 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° | 41215.0 | 100.0 |
| 0°-180° | 41215.0 | 100.0 |



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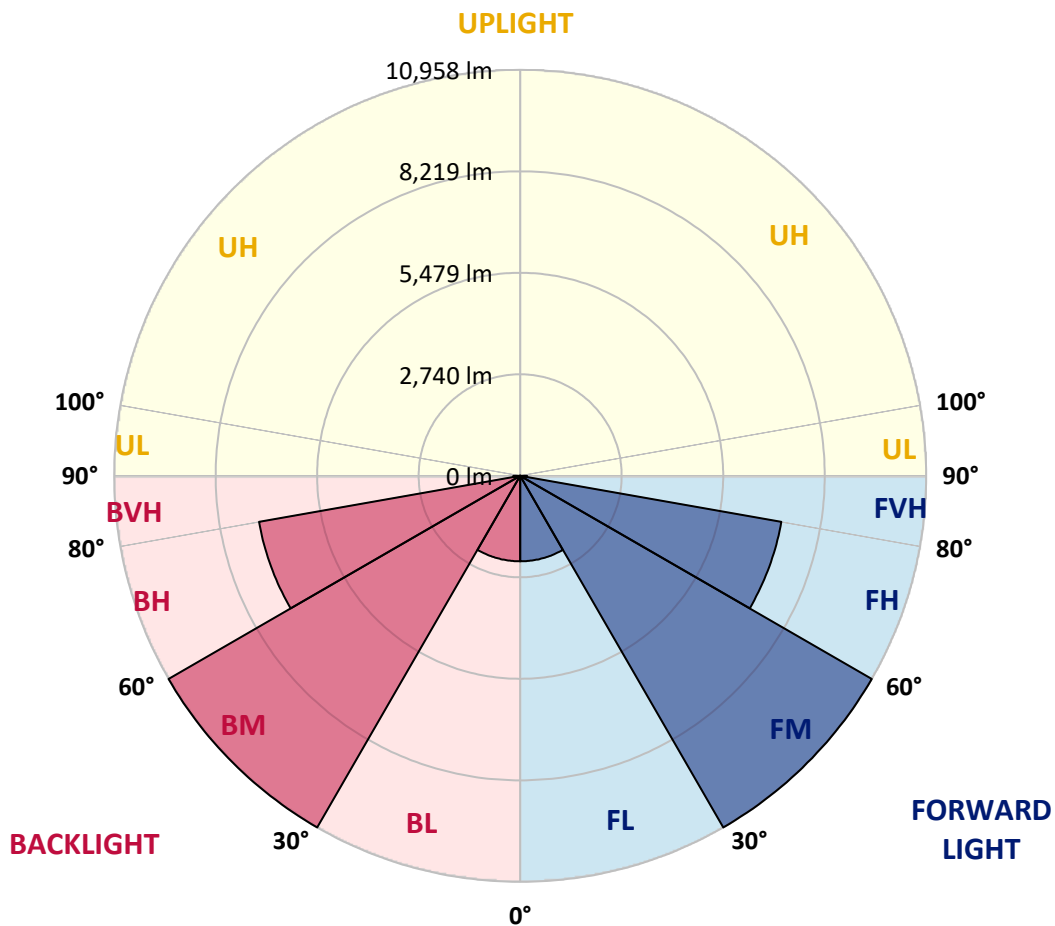
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2307.5 | 5.6 | | | |
| FM (30°-60°) | 10958.3 | 26.6 | | | |
| FH (60°-80°) | 7155.9 | 17.4 | | | G3/7500 |
| FVH (80°-90°) | 185.7 | 0.5 | | | G2/225 |
| BL (0°-30°) | 2307.5 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 10958.3 | 26.6 | B5 | | |
| BH (60°-80°) | 7155.9 | 17.4 | B5 | | G5 |
| BVH (80°-90°) | 185.7 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4414.9 | 4414.9 | 4414.9 | 4414.9 | 4414.9 | 4414.9 | 4414.9 | 4414.9 | 4414.9 | 4414.9 |
| 2.5° | 4414.9 | 4410.7 | 4414.9 | 4419.1 | 4417.0 | 4417.0 | 4427.5 | 4433.8 | 4446.4 | 4444.3 |
| 5° | 4385.4 | 4383.3 | 4400.1 | 4419.1 | 4433.8 | 4459.1 | 4490.6 | 4513.8 | 4543.2 | 4549.5 |
| 7.5° | 4370.7 | 4364.4 | 4393.8 | 4427.5 | 4473.8 | 4536.9 | 4597.9 | 4661.1 | 4711.6 | 4728.4 |
| 10° | 4381.2 | 4383.3 | 4423.3 | 4486.4 | 4560.1 | 4648.4 | 4734.7 | 4842.0 | 4913.6 | 4930.4 |
| 12.5° | 4429.6 | 4425.4 | 4492.7 | 4593.7 | 4694.7 | 4806.3 | 4907.3 | 5025.1 | 5103.0 | 5143.0 |
| 15° | 4518.0 | 4509.6 | 4604.3 | 4753.7 | 4901.0 | 5031.4 | 5113.5 | 5225.0 | 5315.5 | 5366.0 |
| 17.5° | 4623.2 | 4627.4 | 4751.6 | 4945.2 | 5138.8 | 5286.1 | 5363.9 | 5420.7 | 5490.2 | 5534.4 |
| 20° | 4808.4 | 4816.8 | 4955.7 | 5185.0 | 5406.0 | 5574.3 | 5637.5 | 5616.4 | 5635.4 | 5669.0 |
| 22.5° | 5056.7 | 5060.9 | 5216.6 | 5464.9 | 5696.4 | 5881.6 | 5923.7 | 5837.4 | 5784.8 | 5807.9 |
| 25° | 5345.0 | 5372.3 | 5528.0 | 5782.7 | 6020.5 | 6197.2 | 6216.2 | 6085.7 | 5955.2 | 5961.5 |
| 27.5° | 5696.4 | 5721.6 | 5879.5 | 6132.0 | 6374.0 | 6527.6 | 6525.5 | 6350.8 | 6159.3 | 6110.9 |
| 30° | 6077.3 | 6104.6 | 6266.7 | 6527.6 | 6752.8 | 6887.4 | 6858.0 | 6649.7 | 6376.1 | 6285.6 |
| 32.5° | 6529.7 | 6546.5 | 6710.7 | 6971.6 | 7179.9 | 7287.3 | 7226.2 | 6969.5 | 6628.6 | 6525.5 |
| 35° | 7076.8 | 7102.1 | 7224.1 | 7470.3 | 7653.4 | 7741.8 | 7638.7 | 7335.7 | 6952.7 | 6836.9 |
| 37.5° | 7701.8 | 7685.0 | 7823.9 | 8042.7 | 8194.2 | 8248.9 | 8107.9 | 7748.1 | 7323.0 | 7186.3 |
| 40° | 8354.2 | 8345.7 | 8497.2 | 8707.7 | 8789.7 | 8823.4 | 8615.1 | 8221.6 | 7750.2 | 7602.9 |
| 42.5° | 8945.5 | 8939.2 | 9143.3 | 9376.9 | 9475.8 | 9437.9 | 9174.8 | 8724.5 | 8244.7 | 8076.4 |
| 45° | 9418.9 | 9410.5 | 9660.9 | 9989.2 | 10182.8 | 10119.7 | 9766.2 | 9280.1 | 8745.6 | 8570.9 |
| 47.5° | 9783.0 | 9787.2 | 10056.5 | 10462.7 | 10801.5 | 10824.6 | 10370.1 | 9846.1 | 9296.9 | 9099.1 |
| 50° | 10046.0 | 10058.7 | 10346.9 | 10797.3 | 11260.2 | 11464.3 | 10986.7 | 10426.9 | 9867.2 | 9644.1 |
| 52.5° | 10111.3 | 10134.4 | 10481.6 | 11009.8 | 11554.8 | 11944.1 | 11613.7 | 10984.6 | 10408.0 | 10195.4 |
| 55° | 9764.0 | 9810.3 | 10250.1 | 10993.0 | 11735.8 | 12259.8 | 12165.1 | 11550.6 | 10953.0 | 10734.1 |
| 57.5° | 8966.5 | 9031.7 | 9545.2 | 10515.3 | 11695.8 | 12476.5 | 12592.3 | 12093.5 | 11498.0 | 11287.6 |
| 60° | 7849.1 | 7927.0 | 8419.4 | 9477.9 | 11131.9 | 12556.5 | 12893.2 | 12621.7 | 11998.8 | 11794.7 |
| 62.5° | 6163.6 | 6264.6 | 6853.8 | 8095.3 | 9940.8 | 12184.0 | 13149.9 | 13099.4 | 12449.2 | 12194.5 |
| 65° | 3954.0 | 4061.3 | 4682.1 | 6148.8 | 8352.0 | 11043.5 | 13229.9 | 13564.4 | 12924.7 | 12569.1 |
| 67.5° | 2384.2 | 2432.6 | 2739.8 | 3726.8 | 6104.6 | 9324.2 | 12552.3 | 14080.0 | 13480.3 | 13038.4 |
| 70° | 1525.6 | 1553.0 | 1736.1 | 2188.5 | 3451.1 | 6803.3 | 10873.0 | 14176.8 | 14153.7 | 13520.3 |
| 72.5° | 1035.3 | 1043.7 | 1092.1 | 1296.3 | 1952.8 | 3865.6 | 8019.6 | 12834.3 | 14574.5 | 14141.0 |
| 75° | 757.6 | 803.9 | 881.7 | 917.5 | 1109.0 | 1931.8 | 4595.8 | 9017.0 | 12282.9 | 12472.3 |
| 77.5° | 564.0 | 566.1 | 673.4 | 715.5 | 791.2 | 1029.0 | 1944.4 | 5033.5 | 7626.1 | 8006.9 |
| 80° | 477.7 | 452.4 | 450.3 | 576.6 | 595.5 | 641.8 | 869.1 | 1738.2 | 2731.4 | 1656.1 |
| 82.5° | 397.7 | 370.4 | 334.6 | 450.3 | 406.1 | 393.5 | 376.7 | 707.1 | 869.1 | 427.2 |
| 85° | 277.8 | 265.1 | 252.5 | 294.6 | 231.5 | 197.8 | 181.0 | 330.4 | 366.2 | 181.0 |
| 87.5° | 119.9 | 124.2 | 126.3 | 130.5 | 96.8 | 69.4 | 69.4 | 92.6 | 92.6 | 71.5 |
| 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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90°
4414.9
4442.2
4549.5
4732.6
4947.3
5159.8
5385.0
5555.4
5694.3
5824.8
5972.1
6125.7
6296.1
6550.7
6853.8
7211.5
7651.3
8118.5
8610.9
9158.0
9711.4
10250.1
10795.2
11336.0
11838.9
12224.0
12613.3
13072.0
13516.1
14073.7
12013.6
7142.1
1252.1
364.0
159.9
52.6
0.0

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