

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: P944197

Luminaire Tested: **GALN-SB9A-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9A-740-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43256 lumens
Efficiency: N/A
Efficacy: 169.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

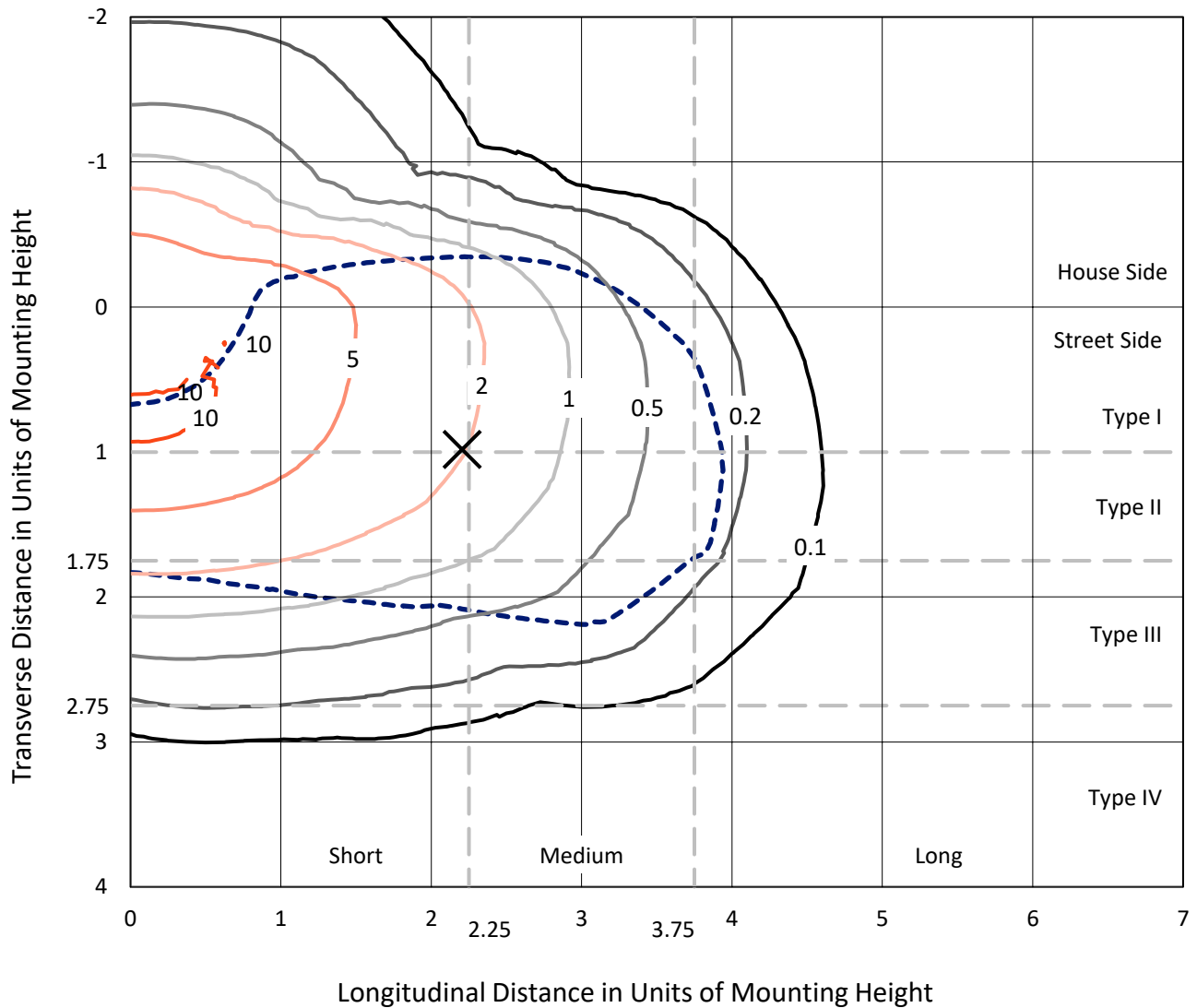
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

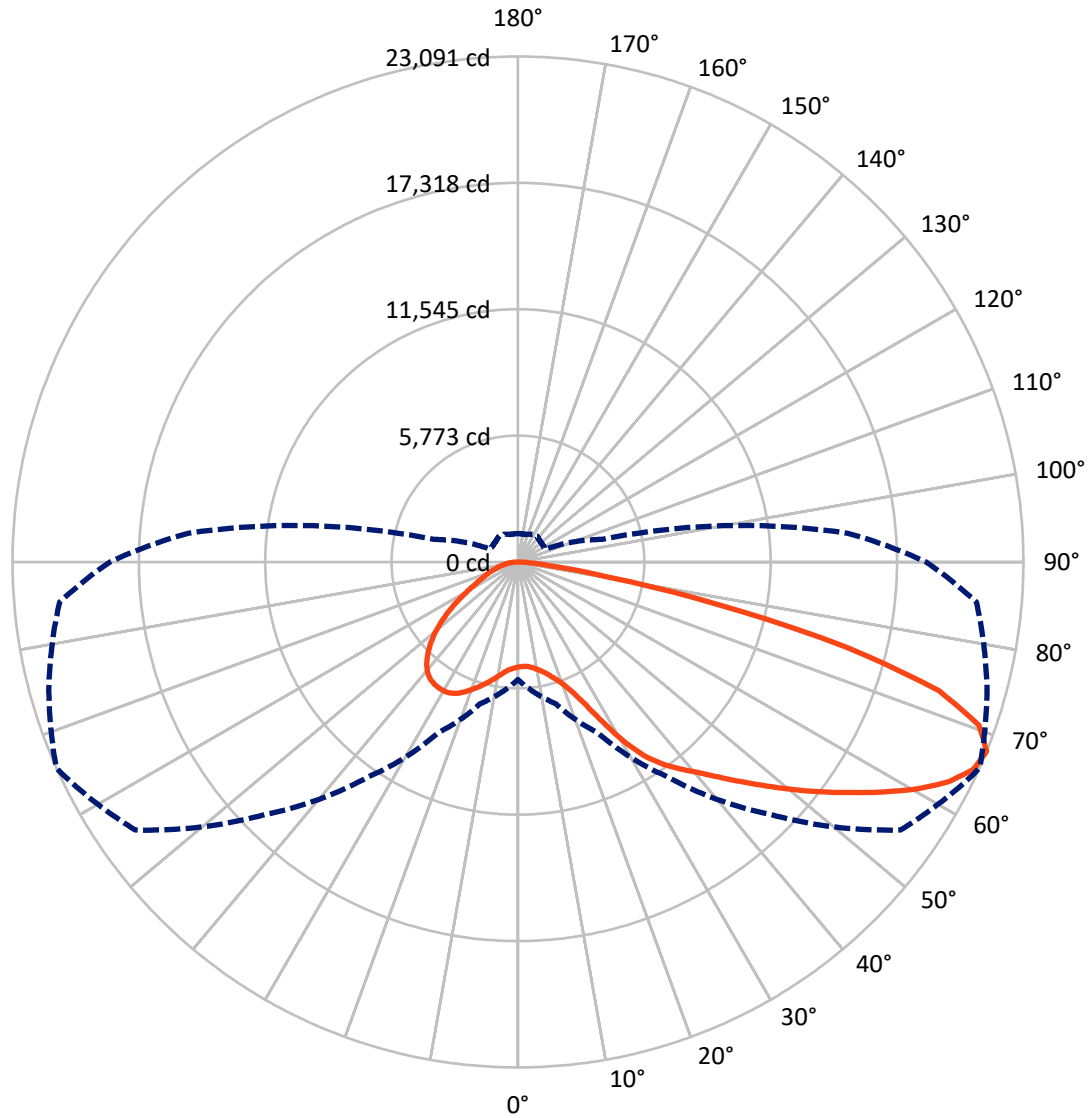
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10755.5 | 0.0 | 10755.5 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 32500.5 | 0.0 | 32500.5 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 43256.0 | 0.0 | 43256.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 475.7 | 1.1 |
| 10°-20° | 1571.5 | 3.6 |
| 20°-30° | 3029.1 | 7.0 |
| 30°-40° | 5311.1 | 12.3 |
| 40°-50° | 7895.8 | 18.3 |
| 50°-60° | 10008.7 | 23.1 |
| 60°-70° | 9793.3 | 22.6 |
| 70°-80° | 4671.5 | 10.8 |
| 80°-90° | 499.3 | 1.2 |
| 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° | 43256.0 | 100.0 |
| 0°-180° | 43256.0 | 100.0 |

Coefficient of Utilization



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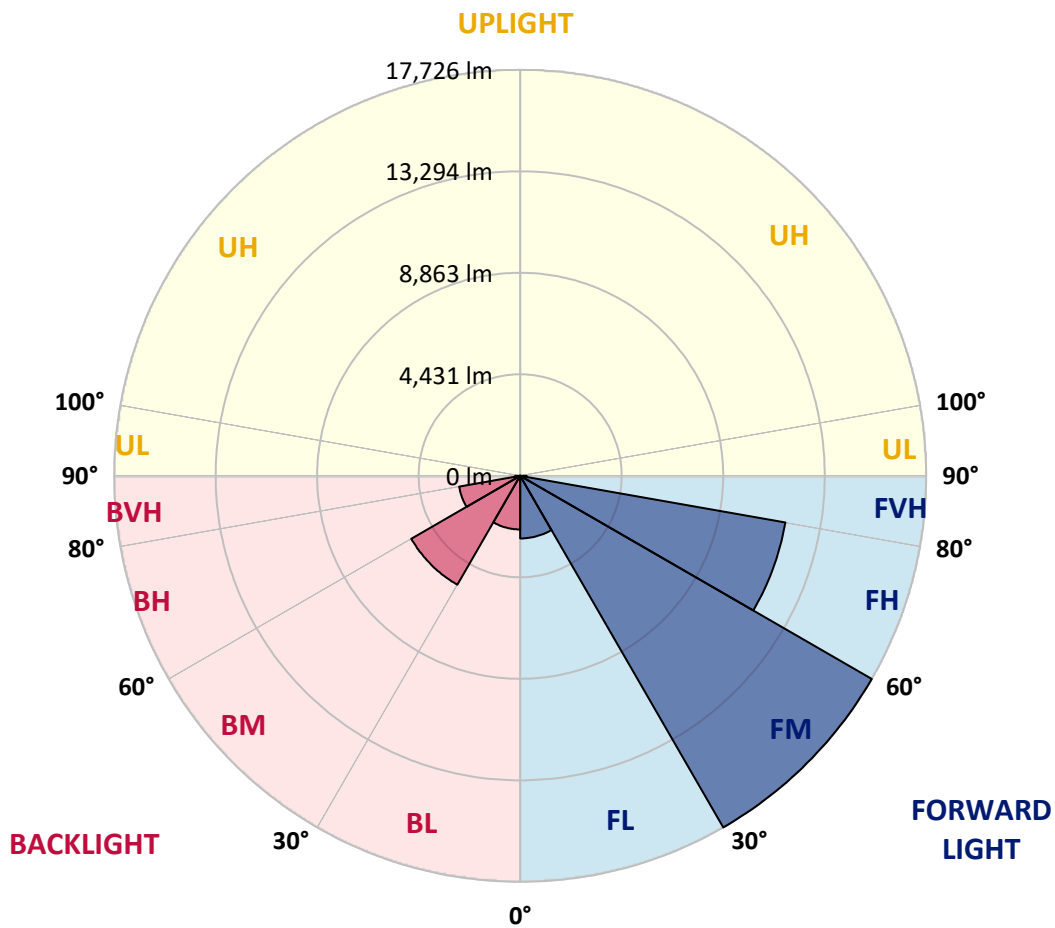
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2733.4 | 6.3 | | | |
| FM (30°-60°) | 17725.9 | 41.0 | | | |
| FH (60°-80°) | 11758.2 | 27.2 | | | G4/12000 |
| FVH (80°-90°) | 283.1 | 0.7 | | | G3/500 |
| BL (0°-30°) | 2342.9 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 5489.7 | 12.7 | B4/8500 | | |
| BH (60°-80°) | 2706.6 | 6.3 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 216.2 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4797.7 | 4797.7 | 4797.7 | 4797.7 | 4797.7 | 4797.7 | 4797.7 | 4797.7 | 4797.7 | 4797.7 |
| 2.5° | 4747.7 | 4774.9 | 4768.1 | 4756.8 | 4754.5 | 4759.0 | 4765.8 | 4772.7 | 4770.4 | 4781.8 |
| 5° | 4734.0 | 4761.3 | 4759.0 | 4759.0 | 4768.1 | 4786.3 | 4797.7 | 4809.0 | 4797.7 | 4811.3 |
| 7.5° | 4743.1 | 4763.6 | 4772.7 | 4781.8 | 4804.5 | 4838.6 | 4865.8 | 4890.8 | 4877.2 | 4893.1 |
| 10° | 4859.0 | 4874.9 | 4884.0 | 4884.0 | 4899.9 | 4938.6 | 4965.8 | 5011.3 | 4999.9 | 5024.9 |
| 12.5° | 5070.4 | 5086.3 | 5086.3 | 5077.2 | 5088.6 | 5113.6 | 5122.7 | 5172.7 | 5152.2 | 5193.1 |
| 15° | 5329.5 | 5361.3 | 5336.3 | 5320.4 | 5324.9 | 5349.9 | 5347.7 | 5386.3 | 5365.8 | 5399.9 |
| 17.5° | 5615.8 | 5656.7 | 5615.8 | 5613.6 | 5604.5 | 5631.7 | 5634.0 | 5668.1 | 5631.7 | 5656.7 |
| 20° | 5954.5 | 6011.3 | 5977.2 | 5988.6 | 5968.1 | 5979.5 | 5990.8 | 6040.8 | 5984.0 | 6002.2 |
| 22.5° | 6431.7 | 6499.9 | 6463.5 | 6506.7 | 6493.1 | 6484.0 | 6481.7 | 6570.4 | 6481.7 | 6488.5 |
| 25° | 7127.2 | 7209.0 | 7145.4 | 7204.4 | 7204.4 | 7234.0 | 7268.1 | 7381.7 | 7234.0 | 7190.8 |
| 27.5° | 8154.4 | 8236.3 | 8111.3 | 8147.6 | 8136.3 | 8209.0 | 8172.6 | 8454.4 | 8295.3 | 8224.9 |
| 30° | 9390.8 | 9536.2 | 9299.9 | 9290.8 | 9279.4 | 9395.3 | 9447.6 | 9634.0 | 9472.6 | 9402.1 |
| 32.5° | 10727.1 | 10879.4 | 10597.6 | 10515.8 | 10472.6 | 10543.0 | 10499.9 | 10649.9 | 10538.5 | 10429.4 |
| 35° | 12140.7 | 12290.7 | 12022.6 | 11863.5 | 11690.8 | 11543.0 | 11388.5 | 11427.1 | 11322.6 | 11156.7 |
| 37.5° | 13477.1 | 13752.1 | 13468.0 | 13297.5 | 12979.4 | 12690.7 | 12258.9 | 12079.4 | 11981.7 | 11829.4 |
| 40° | 14838.4 | 14995.3 | 14779.3 | 14633.9 | 14288.4 | 13836.2 | 13145.3 | 12765.7 | 12633.9 | 12486.2 |
| 42.5° | 15840.7 | 15990.7 | 15874.8 | 15774.8 | 15504.3 | 14979.3 | 14086.2 | 13611.2 | 13420.3 | 13254.4 |
| 45° | 16636.1 | 16747.5 | 16674.8 | 16711.1 | 16595.2 | 16086.1 | 15061.2 | 14518.0 | 14320.3 | 14118.0 |
| 47.5° | 16956.6 | 17074.8 | 17190.7 | 17406.6 | 17604.3 | 17229.3 | 16108.9 | 15499.8 | 15290.7 | 15083.9 |
| 50° | 16920.2 | 17040.7 | 17377.0 | 17836.1 | 18449.7 | 18324.8 | 17213.4 | 16545.2 | 16352.1 | 16115.7 |
| 52.5° | 16629.3 | 16765.7 | 17197.5 | 17961.1 | 18938.4 | 19145.2 | 18338.4 | 17624.8 | 17442.9 | 17161.1 |
| 55° | 15865.7 | 15947.5 | 16595.2 | 17677.0 | 19054.3 | 19717.9 | 19440.6 | 18774.7 | 18592.9 | 18199.8 |
| 57.5° | 14449.8 | 14568.0 | 15511.2 | 16911.1 | 18763.4 | 20106.5 | 20408.8 | 19983.8 | 19808.8 | 19242.9 |
| 60° | 12602.1 | 12790.7 | 13870.3 | 15624.8 | 18022.5 | 20104.3 | 21288.3 | 21172.4 | 21027.0 | 20270.2 |
| 62.5° | 10511.2 | 10729.4 | 11768.0 | 13806.6 | 16727.0 | 19533.8 | 21838.3 | 22167.9 | 22092.9 | 21217.9 |
| 65° | 8072.6 | 8222.6 | 9256.7 | 11454.4 | 14711.2 | 18308.8 | 21902.0 | 22847.4 | 22861.1 | 21938.3 |
| 67.5° | 5374.9 | 5806.7 | 6704.5 | 8595.3 | 12011.2 | 16306.6 | 21342.9 | 22958.8 | 23090.6 | 22186.1 |
| 70° | 2622.7 | 3190.9 | 4070.4 | 5586.3 | 8595.3 | 13236.2 | 19881.5 | 22045.2 | 22338.3 | 21463.3 |
| 72.5° | 1088.6 | 1272.7 | 1752.2 | 2756.8 | 4934.0 | 8931.7 | 16945.2 | 19567.9 | 20111.1 | 19017.9 |
| 75° | 734.1 | 795.4 | 1002.3 | 1413.6 | 2247.7 | 4404.5 | 12220.3 | 14590.7 | 15465.7 | 14363.4 |
| 77.5° | 565.9 | 604.5 | 729.5 | 988.6 | 1336.3 | 1665.9 | 6540.8 | 8793.1 | 9245.3 | 8559.0 |
| 80° | 445.4 | 475.0 | 545.4 | 720.4 | 947.7 | 890.9 | 2229.5 | 3984.0 | 4245.4 | 3561.3 |
| 82.5° | 386.4 | 397.7 | 390.9 | 488.6 | 629.5 | 520.4 | 731.8 | 1470.4 | 1622.7 | 1177.3 |
| 85° | 279.5 | 311.4 | 325.0 | 302.3 | 334.1 | 263.6 | 300.0 | 520.4 | 572.7 | 511.4 |
| 87.5° | 113.6 | 168.2 | 206.8 | 195.5 | 122.7 | 75.0 | 93.2 | 152.3 | 175.0 | 190.9 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4797.7 | 0° | 4797.7 | 4797.7 | 4797.7 | 4797.7 | 4797.7 | 4797.7 | 4797.7 | 4797.7 | 4797.7 | 4797.7 |
| 4799.9 | 2.5° | 4802.2 | 4818.1 | 4829.5 | 4843.1 | 4852.2 | 4865.8 | 4893.1 | 4909.0 | 4911.3 | 4922.7 |
| 4836.3 | 5° | 4845.4 | 4868.1 | 4893.1 | 4929.5 | 4970.4 | 5004.5 | 5056.7 | 5093.1 | 5106.7 | 5118.1 |
| 4924.9 | 7.5° | 4938.6 | 4970.4 | 5015.8 | 5079.5 | 5138.6 | 5184.0 | 5247.7 | 5290.8 | 5334.0 | 5349.9 |
| 5065.8 | 10° | 5077.2 | 5122.7 | 5188.6 | 5274.9 | 5338.6 | 5397.7 | 5463.6 | 5499.9 | 5543.1 | 5561.3 |
| 5234.0 | 12.5° | 5249.9 | 5297.7 | 5384.0 | 5504.5 | 5563.6 | 5604.5 | 5627.2 | 5618.1 | 5627.2 | 5643.1 |
| 5436.3 | 15° | 5447.7 | 5499.9 | 5597.7 | 5727.2 | 5768.1 | 5731.7 | 5681.7 | 5636.3 | 5629.5 | 5634.0 |
| 5681.7 | 17.5° | 5681.7 | 5720.4 | 5834.0 | 5943.1 | 5913.6 | 5763.6 | 5654.5 | 5581.7 | 5545.4 | 5534.0 |
| 5995.4 | 20° | 6009.0 | 6009.0 | 6102.2 | 6170.4 | 5972.6 | 5718.1 | 5547.7 | 5429.5 | 5354.5 | 5322.7 |
| 6422.6 | 22.5° | 6406.7 | 6370.4 | 6429.5 | 6381.7 | 5961.3 | 5590.8 | 5354.5 | 5149.9 | 5036.3 | 4990.8 |
| 7020.4 | 25° | 6911.3 | 6868.1 | 6852.2 | 6556.7 | 5879.5 | 5388.6 | 5004.5 | 4756.8 | 4656.8 | 4631.8 |
| 7881.7 | 27.5° | 7672.6 | 7563.5 | 7356.7 | 6652.2 | 5729.5 | 5070.4 | 4595.4 | 4365.8 | 4309.0 | 4311.3 |
| 8988.5 | 30° | 8686.2 | 8468.1 | 7961.3 | 6668.1 | 5484.0 | 4620.4 | 4177.2 | 4013.6 | 3986.3 | 3997.7 |
| 9918.0 | 32.5° | 9624.9 | 9418.1 | 8579.4 | 6595.4 | 5106.7 | 4179.5 | 3802.2 | 3693.1 | 3652.2 | 3665.9 |
| 10627.1 | 35° | 10361.2 | 10304.4 | 9152.1 | 6493.1 | 4643.1 | 3765.9 | 3465.9 | 3372.7 | 3293.1 | 3275.0 |
| 11295.3 | 37.5° | 11056.7 | 11033.9 | 9581.7 | 6349.9 | 4184.0 | 3472.7 | 3195.4 | 3072.7 | 2956.8 | 2893.1 |
| 12033.9 | 40° | 11820.3 | 11797.6 | 9863.5 | 6129.5 | 3777.2 | 3218.1 | 2952.2 | 2790.9 | 2647.7 | 2531.8 |
| 12870.3 | 42.5° | 12679.4 | 12545.3 | 9997.6 | 5813.6 | 3431.8 | 3002.2 | 2754.5 | 2536.3 | 2347.7 | 2240.9 |
| 13815.7 | 45° | 13618.0 | 13315.7 | 9995.3 | 5411.3 | 3140.9 | 2804.5 | 2543.1 | 2234.1 | 2059.1 | 1959.1 |
| 14786.2 | 47.5° | 14613.4 | 14052.1 | 9872.6 | 4965.8 | 2859.1 | 2586.3 | 2215.9 | 1979.5 | 1863.6 | 1802.2 |
| 15840.7 | 50° | 15640.7 | 14740.7 | 9663.5 | 4454.5 | 2570.4 | 2338.6 | 2011.3 | 1850.0 | 1761.3 | 1704.5 |
| 16886.1 | 52.5° | 16606.6 | 15365.7 | 9411.2 | 3874.9 | 2277.2 | 2097.7 | 1920.4 | 1795.4 | 1702.2 | 1638.6 |
| 17899.8 | 55° | 17504.3 | 15904.3 | 9054.4 | 3281.8 | 2038.6 | 1936.3 | 1877.2 | 1772.7 | 1665.9 | 1590.9 |
| 18929.3 | 57.5° | 18302.0 | 16254.3 | 8438.5 | 2725.0 | 1868.2 | 1825.0 | 1831.8 | 1734.1 | 1611.3 | 1547.7 |
| 19942.9 | 60° | 18965.7 | 16511.1 | 7527.2 | 2209.1 | 1729.5 | 1715.9 | 1761.3 | 1661.3 | 1518.2 | 1445.4 |
| 20799.7 | 62.5° | 19363.4 | 16506.6 | 6409.0 | 1809.1 | 1611.3 | 1615.9 | 1668.2 | 1570.4 | 1425.0 | 1356.8 |
| 21247.4 | 65° | 19329.3 | 16102.1 | 5181.7 | 1547.7 | 1497.7 | 1502.3 | 1570.4 | 1470.4 | 1347.7 | 1306.8 |
| 21022.4 | 67.5° | 18645.2 | 15115.7 | 3974.9 | 1377.3 | 1372.7 | 1393.2 | 1472.7 | 1402.3 | 1300.0 | 1295.4 |
| 19681.6 | 70° | 16793.0 | 13068.0 | 2863.6 | 1240.9 | 1243.2 | 1272.7 | 1377.3 | 1359.1 | 1275.0 | 1284.1 |
| 16547.5 | 72.5° | 13465.7 | 9963.5 | 1922.7 | 1097.7 | 1100.0 | 1147.7 | 1286.3 | 1325.0 | 1250.0 | 1370.4 |
| 11740.7 | 75° | 8968.1 | 6213.6 | 1236.3 | 945.4 | 947.7 | 1009.1 | 1206.8 | 1259.1 | 1181.8 | 1365.9 |
| 6109.0 | 77.5° | 4309.0 | 2793.1 | 895.4 | 795.4 | 795.4 | 852.3 | 1043.2 | 1127.3 | 1006.8 | 1061.3 |
| 1963.6 | 80° | 1488.6 | 1050.0 | 704.5 | 640.9 | 627.3 | 665.9 | 879.5 | 977.3 | 868.2 | 800.0 |
| 640.9 | 82.5° | 586.4 | 545.4 | 565.9 | 497.7 | 452.3 | 477.3 | 684.1 | 806.8 | 638.6 | 577.3 |
| 361.4 | 85° | 336.4 | 354.5 | 400.0 | 329.5 | 261.4 | 293.2 | 502.3 | 579.5 | 481.8 | 425.0 |
| 118.2 | 87.5° | 90.9 | 125.0 | 184.1 | 170.5 | 118.2 | 125.0 | 238.6 | 320.5 | 277.3 | 213.6 |
| 0.0 | 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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180°
4797.7
4920.4
5115.8
5352.2
5570.4
5647.7
5649.9
5549.9
5315.8
4984.0
4636.3
4318.1
4036.3
3684.0
3288.6
2895.4
2543.1
2247.7
1954.5
1788.6
1684.1
1611.3
1561.3
1506.8
1413.6
1336.3
1304.5
1302.3
1281.8
1388.6
1377.3
972.7
750.0
575.0
434.1
220.5
0.0

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