

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: P954316

Luminaire Tested: **GALN-SB7C-835-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-835-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37754 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

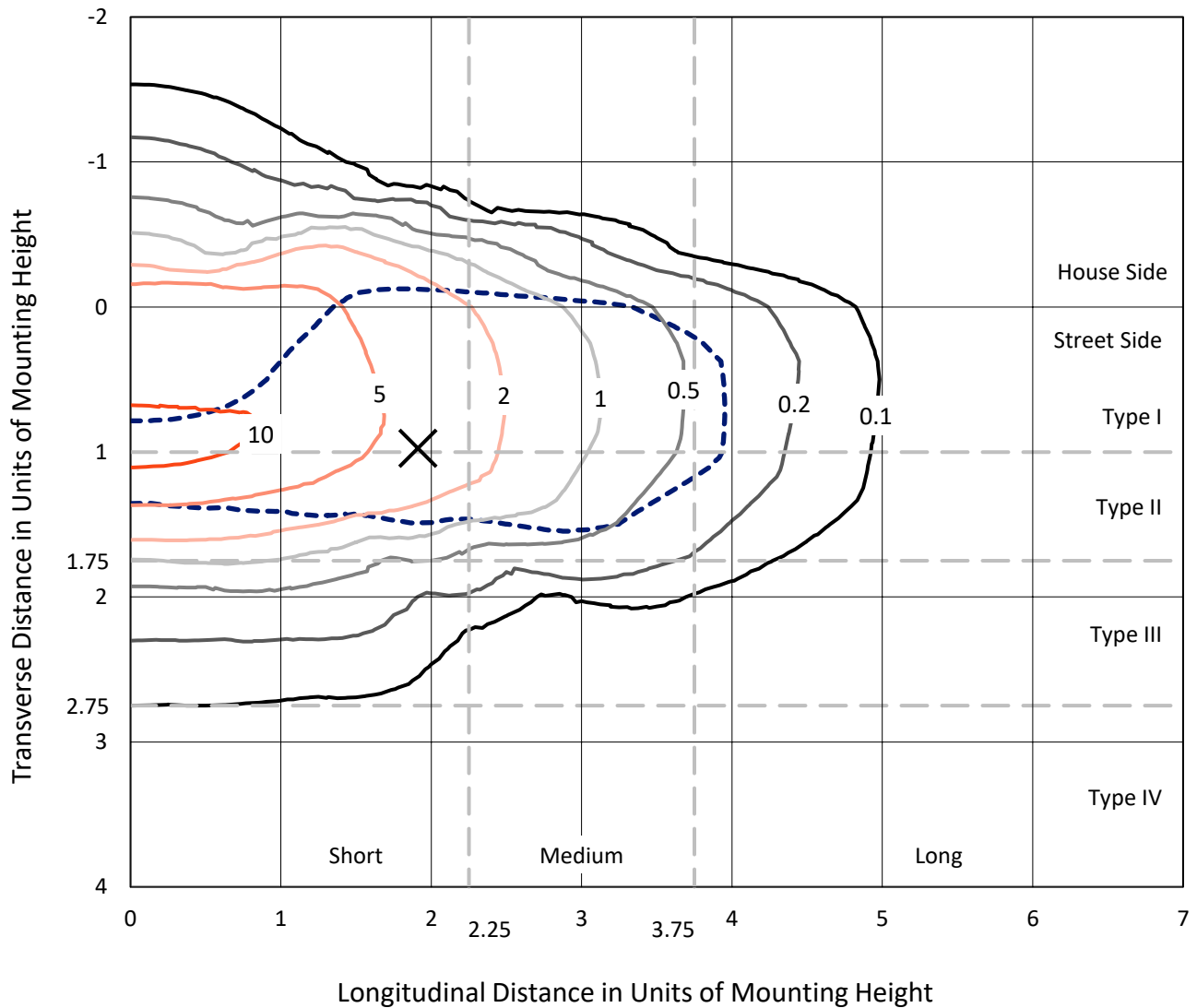
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

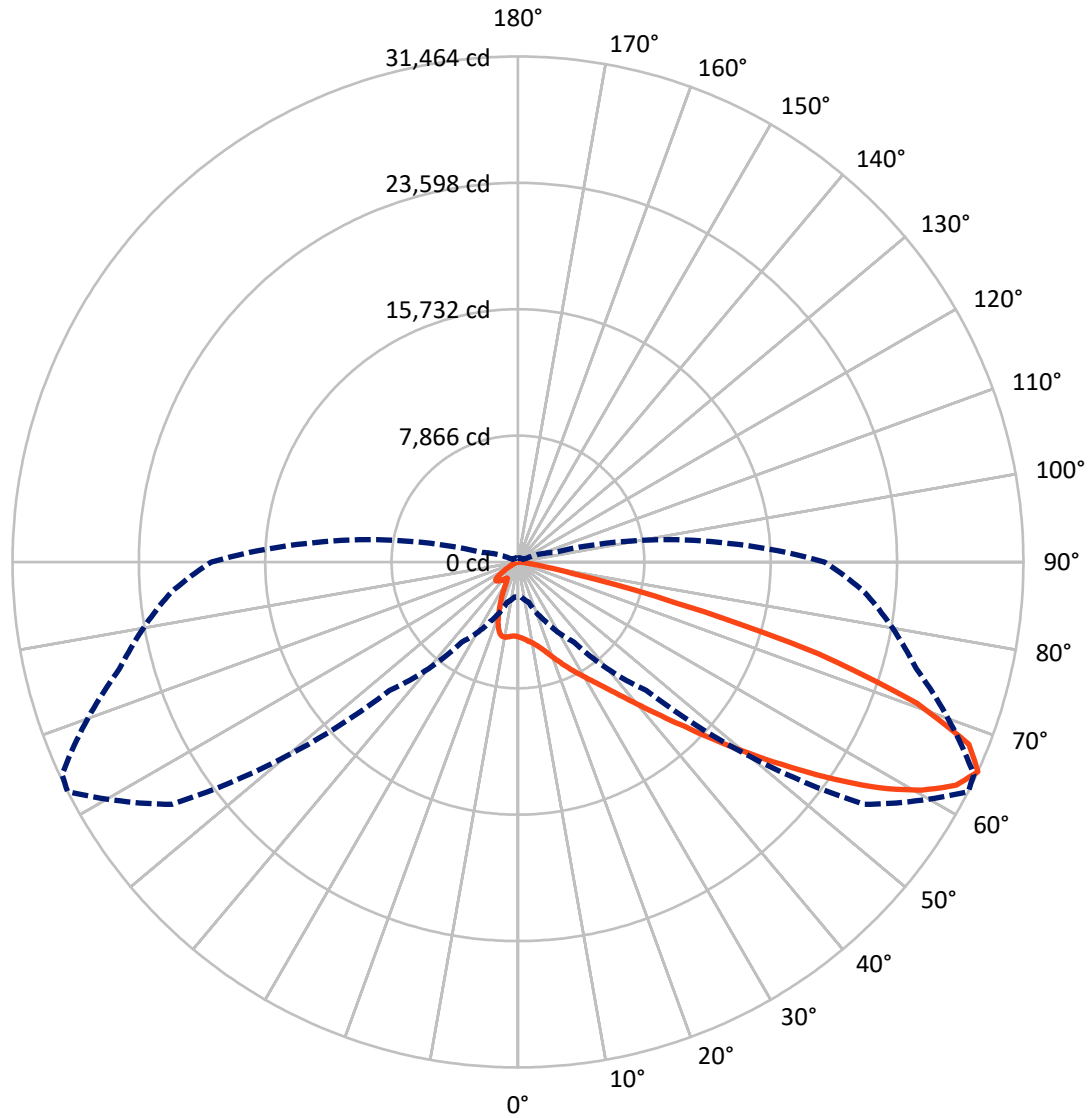
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5549.5 | 0.0 | 5549.5 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 32204.5 | 0.0 | 32204.5 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 37754.0 | 0.0 | 37754.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 439.0 | 1.2 |
| 10°-20° | 1218.1 | 3.2 |
| 20°-30° | 2121.0 | 5.6 |
| 30°-40° | 3823.0 | 10.1 |
| 40°-50° | 7582.2 | 20.1 |
| 50°-60° | 10328.2 | 27.4 |
| 60°-70° | 8243.9 | 21.8 |
| 70°-80° | 3730.5 | 9.9 |
| 80°-90° | 268.1 | 0.7 |
| 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° | 37754.0 | 100.0 |
| 0°-180° | 37754.0 | 100.0 |

Coefficient of Utilization



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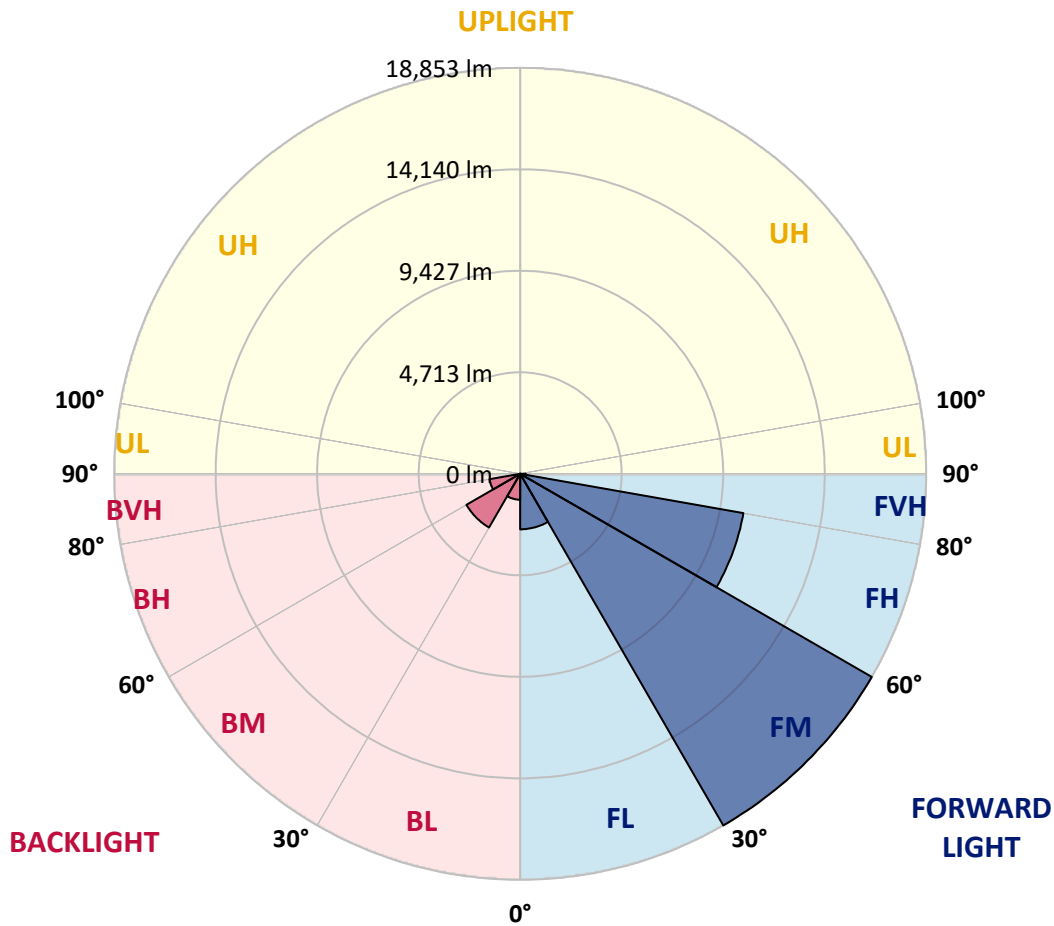
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2577.2 | 6.8 | | | |
| FM (30°-60°) | 18853.4 | 49.9 | | | |
| FH (60°-80°) | 10525.6 | 27.9 | | | G4/12000 |
| FVH (80°-90°) | 248.2 | 0.7 | | | G3/500 |
| BL (0°-30°) | 1201.0 | 3.2 | B3/2500 | | |
| BM (30°-60°) | 2879.9 | 7.6 | B3/5000 | | |
| BH (60°-80°) | 1448.8 | 3.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 19.9 | 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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 63° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4659.6 | 4659.6 | 4659.6 | 4659.6 | 4659.6 | 4659.6 | 4659.6 | 4659.6 | 4659.6 | 4659.6 |
| 2.5° | 4768.6 | 4755.7 | 4773.8 | 4766.0 | 4760.9 | 4750.5 | 4745.3 | 4740.1 | 4729.7 | 4721.9 |
| 5° | 4781.6 | 4773.8 | 4792.0 | 4807.6 | 4823.2 | 4838.8 | 4846.6 | 4857.0 | 4846.6 | 4825.8 |
| 7.5° | 4672.5 | 4667.3 | 4706.3 | 4753.1 | 4823.2 | 4882.9 | 4947.9 | 4984.2 | 4986.8 | 4979.0 |
| 10° | 4664.8 | 4651.8 | 4690.7 | 4747.9 | 4838.8 | 4945.3 | 5059.5 | 5137.5 | 5147.8 | 5181.6 |
| 12.5° | 4786.8 | 4773.8 | 4828.4 | 4890.7 | 4984.2 | 5095.9 | 5236.2 | 5345.2 | 5360.8 | 5407.6 |
| 15° | 4992.0 | 4973.8 | 5036.2 | 5116.7 | 5236.2 | 5363.4 | 5511.5 | 5610.2 | 5623.2 | 5680.3 |
| 17.5° | 5231.0 | 5212.8 | 5285.5 | 5371.2 | 5501.1 | 5675.1 | 5846.5 | 5955.6 | 5971.2 | 6007.6 |
| 20° | 5537.4 | 5514.1 | 5571.2 | 5649.1 | 5786.8 | 5994.6 | 6199.8 | 6355.6 | 6353.0 | 6353.0 |
| 22.5° | 5893.3 | 5856.9 | 5906.3 | 5968.6 | 6098.5 | 6350.4 | 6623.1 | 6807.5 | 6807.5 | 6734.8 |
| 25° | 6275.1 | 6238.7 | 6293.3 | 6350.4 | 6464.7 | 6750.4 | 7069.9 | 7298.4 | 7308.8 | 7184.1 |
| 27.5° | 6753.0 | 6706.2 | 6747.8 | 6815.3 | 6882.8 | 7173.7 | 7552.9 | 7817.9 | 7823.1 | 7630.9 |
| 30° | 7672.4 | 7540.0 | 7410.1 | 7337.4 | 7368.5 | 7656.8 | 8062.0 | 8355.5 | 8381.5 | 8116.6 |
| 32.5° | 9355.5 | 9329.5 | 8872.4 | 8275.0 | 7963.3 | 8176.3 | 8630.8 | 8984.1 | 8999.6 | 8659.4 |
| 35° | 11971.0 | 11939.8 | 11204.8 | 10067.1 | 9051.6 | 8872.4 | 9321.7 | 9739.9 | 9729.5 | 9345.1 |
| 37.5° | 15092.9 | 15064.3 | 14095.5 | 12573.5 | 10929.4 | 9924.3 | 10212.6 | 10651.5 | 10716.5 | 10212.6 |
| 40° | 17760.3 | 17653.9 | 17040.9 | 15573.4 | 13422.8 | 11669.7 | 11480.1 | 11771.0 | 11838.5 | 11241.1 |
| 42.5° | 19781.0 | 19690.1 | 19378.5 | 18461.6 | 16440.9 | 14251.4 | 12973.5 | 13085.2 | 13160.5 | 12443.7 |
| 45° | 20827.8 | 20807.0 | 20931.6 | 20845.9 | 19516.1 | 17420.1 | 15108.5 | 14643.6 | 14672.2 | 13776.1 |
| 47.5° | 20975.8 | 20965.4 | 21534.2 | 22339.4 | 22160.2 | 20994.0 | 17848.6 | 16586.4 | 16485.1 | 15279.9 |
| 50° | 20103.1 | 20082.3 | 21173.2 | 22682.2 | 23926.3 | 23996.5 | 20960.2 | 18775.9 | 18552.5 | 16835.7 |
| 52.5° | 17316.2 | 17311.0 | 19103.1 | 21614.7 | 24547.1 | 26624.9 | 24035.4 | 21181.0 | 20807.0 | 18482.4 |
| 55° | 13324.2 | 13420.3 | 15474.7 | 18443.4 | 23414.7 | 27889.8 | 26796.3 | 23851.0 | 23277.0 | 20139.5 |
| 57.5° | 9438.6 | 9578.8 | 11609.9 | 14254.0 | 19903.1 | 27141.8 | 28663.8 | 26526.2 | 25908.1 | 21791.4 |
| 60° | 5069.9 | 5194.6 | 7228.3 | 10384.0 | 14807.2 | 24352.3 | 29648.2 | 28848.2 | 28263.8 | 23360.1 |
| 62.5° | 3020.7 | 3062.2 | 3903.7 | 6703.6 | 10015.2 | 18604.5 | 29230.0 | 30617.0 | 30136.5 | 24677.0 |
| 65° | 2168.7 | 2176.5 | 2599.9 | 4093.3 | 6080.3 | 11303.5 | 26297.7 | 31463.7 | 31315.7 | 25669.1 |
| 67.5° | 1825.9 | 1820.7 | 1997.3 | 2719.4 | 4142.7 | 5662.1 | 20155.1 | 30266.3 | 30894.9 | 26297.7 |
| 70° | 1566.2 | 1574.0 | 1781.7 | 1992.1 | 3114.2 | 3205.1 | 10020.4 | 26352.2 | 27692.4 | 26463.9 |
| 72.5° | 1166.2 | 1192.2 | 1384.4 | 1815.5 | 2350.6 | 2205.1 | 3459.6 | 19539.5 | 21962.8 | 24934.1 |
| 75° | 823.3 | 836.3 | 974.0 | 1527.2 | 1753.2 | 1605.1 | 1766.2 | 10100.9 | 13207.3 | 19116.1 |
| 77.5° | 633.7 | 657.1 | 737.6 | 1067.5 | 1727.2 | 1127.2 | 1080.5 | 3496.0 | 5371.2 | 11547.6 |
| 80° | 342.8 | 384.4 | 532.4 | 771.4 | 1212.9 | 797.4 | 535.0 | 1392.2 | 1820.7 | 5399.8 |
| 82.5° | 176.6 | 197.4 | 371.4 | 555.8 | 690.9 | 696.1 | 264.9 | 579.2 | 750.6 | 1667.5 |
| 85° | 70.1 | 85.7 | 249.3 | 306.5 | 355.8 | 342.8 | 119.5 | 233.8 | 270.1 | 462.3 |
| 87.5° | 15.6 | 26.0 | 90.9 | 70.1 | 67.5 | 72.7 | 28.6 | 54.5 | 51.9 | 54.5 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4659.6 | 0° | 4659.6 | 4659.6 | 4659.6 | 4659.6 | 4659.6 | 4659.6 | 4659.6 | 4659.6 | 4659.6 | 4659.6 |
| 4690.7 | 2.5° | 4688.1 | 4677.7 | 4649.2 | 4618.0 | 4581.6 | 4560.9 | 4547.9 | 4545.3 | 4527.1 | 4514.1 |
| 4794.6 | 5° | 4766.0 | 4755.7 | 4701.1 | 4636.2 | 4566.1 | 4511.5 | 4459.6 | 4412.8 | 4345.3 | 4332.3 |
| 4945.3 | 7.5° | 4921.9 | 4893.3 | 4805.0 | 4716.7 | 4584.2 | 4425.8 | 4233.6 | 4012.8 | 3815.4 | 3755.7 |
| 5145.3 | 10° | 5114.1 | 5075.1 | 4963.4 | 4807.6 | 4514.1 | 4083.0 | 3618.0 | 3186.9 | 2844.0 | 2747.9 |
| 5381.6 | 12.5° | 5332.3 | 5298.5 | 5150.4 | 4862.1 | 4220.6 | 3438.8 | 2727.2 | 2192.1 | 1859.7 | 1776.6 |
| 5633.5 | 15° | 5592.0 | 5542.6 | 5337.5 | 4779.0 | 3696.0 | 2612.9 | 1872.7 | 1555.8 | 1436.3 | 1420.7 |
| 5921.8 | 17.5° | 5867.3 | 5786.8 | 5503.7 | 4480.3 | 2989.5 | 1857.1 | 1446.7 | 1355.8 | 1303.8 | 1288.3 |
| 6212.7 | 20° | 6119.2 | 6015.3 | 5602.4 | 4028.4 | 2233.7 | 1446.7 | 1296.1 | 1236.3 | 1189.6 | 1171.4 |
| 6503.6 | 22.5° | 6371.2 | 6223.1 | 5602.4 | 3412.9 | 1675.3 | 1283.1 | 1189.6 | 1135.0 | 1080.5 | 1057.1 |
| 6815.3 | 25° | 6633.5 | 6436.1 | 5503.7 | 2727.2 | 1348.0 | 1176.6 | 1088.3 | 1028.5 | 981.8 | 953.2 |
| 7111.4 | 27.5° | 6888.0 | 6615.3 | 5277.7 | 2077.8 | 1200.0 | 1083.1 | 994.8 | 937.6 | 893.5 | 872.7 |
| 7433.5 | 30° | 7129.6 | 6791.9 | 4960.8 | 1576.6 | 1103.9 | 992.2 | 909.1 | 859.7 | 815.6 | 794.8 |
| 7851.6 | 32.5° | 7456.8 | 7015.3 | 4623.2 | 1293.5 | 1020.7 | 906.5 | 831.1 | 784.4 | 745.4 | 729.8 |
| 8394.5 | 35° | 7911.4 | 7345.2 | 4332.3 | 1270.1 | 950.6 | 836.3 | 761.0 | 716.9 | 677.9 | 664.9 |
| 9095.7 | 37.5° | 8555.5 | 7877.6 | 4179.1 | 1425.9 | 893.5 | 774.0 | 703.9 | 657.1 | 620.8 | 610.4 |
| 9986.6 | 40° | 9350.3 | 8599.7 | 4262.2 | 1581.8 | 854.5 | 719.5 | 651.9 | 605.2 | 574.0 | 561.0 |
| 11010.0 | 42.5° | 10293.1 | 9490.5 | 4721.9 | 1701.2 | 828.5 | 672.7 | 602.6 | 550.6 | 529.8 | 524.7 |
| 12170.9 | 45° | 11376.2 | 10469.7 | 5425.8 | 1828.5 | 787.0 | 628.5 | 553.2 | 514.3 | 498.7 | 496.1 |
| 13433.2 | 47.5° | 12607.3 | 11545.0 | 6241.3 | 1986.9 | 745.4 | 587.0 | 514.3 | 488.3 | 475.3 | 470.1 |
| 14750.1 | 50° | 13828.0 | 12628.1 | 7080.2 | 2075.2 | 711.7 | 548.0 | 483.1 | 462.3 | 451.9 | 449.3 |
| 16142.2 | 52.5° | 15105.9 | 13742.3 | 7758.1 | 1992.1 | 683.1 | 516.9 | 457.1 | 441.5 | 431.2 | 428.6 |
| 17425.3 | 55° | 16324.0 | 14643.6 | 7875.0 | 1690.8 | 625.9 | 485.7 | 428.6 | 420.8 | 407.8 | 407.8 |
| 18726.5 | 57.5° | 17373.3 | 15095.5 | 7049.1 | 1241.5 | 568.8 | 438.9 | 400.0 | 392.2 | 381.8 | 379.2 |
| 19900.5 | 60° | 18336.9 | 14965.6 | 5441.3 | 836.3 | 506.5 | 392.2 | 363.6 | 358.4 | 348.0 | 335.1 |
| 20921.3 | 62.5° | 18879.8 | 14394.2 | 3721.9 | 545.4 | 444.1 | 342.8 | 322.1 | 319.5 | 296.1 | 270.1 |
| 21677.1 | 65° | 19085.0 | 13220.3 | 2322.0 | 397.4 | 371.4 | 293.5 | 277.9 | 272.7 | 239.0 | 210.4 |
| 22105.6 | 67.5° | 18905.7 | 11287.9 | 1171.4 | 314.3 | 293.5 | 244.1 | 228.6 | 228.6 | 205.2 | 179.2 |
| 22079.7 | 70° | 18188.9 | 8462.0 | 493.5 | 251.9 | 226.0 | 187.0 | 187.0 | 197.4 | 174.0 | 145.4 |
| 20934.2 | 72.5° | 16633.1 | 5693.3 | 262.3 | 192.2 | 168.8 | 132.5 | 153.2 | 161.0 | 137.7 | 109.1 |
| 17134.4 | 75° | 13222.9 | 3472.6 | 181.8 | 142.9 | 106.5 | 93.5 | 116.9 | 122.1 | 93.5 | 72.7 |
| 11747.6 | 77.5° | 9043.8 | 1994.7 | 122.1 | 90.9 | 67.5 | 54.5 | 80.5 | 75.3 | 49.3 | 33.8 |
| 4529.7 | 80° | 3971.3 | 831.1 | 70.1 | 41.6 | 26.0 | 20.8 | 28.6 | 20.8 | 15.6 | 10.4 |
| 620.8 | 82.5° | 464.9 | 194.8 | 26.0 | 15.6 | 10.4 | 5.2 | 2.6 | 0.0 | 0.0 | 0.0 |
| 189.6 | 85° | 96.1 | 23.4 | 13.0 | 5.2 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 33.8 | 87.5° | 18.2 | 5.2 | 2.6 | 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 |

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| <u>180°</u> |
|-------------|
| 4659.6 |
| 4527.1 |
| 4327.1 |
| 3727.1 |
| 2711.6 |
| 1753.2 |
| 1405.1 |
| 1280.5 |
| 1161.0 |
| 1044.1 |
| 942.8 |
| 872.7 |
| 797.4 |
| 729.8 |
| 664.9 |
| 607.8 |
| 558.4 |
| 524.7 |
| 493.5 |
| 470.1 |
| 449.3 |
| 428.6 |
| 405.2 |
| 376.6 |
| 332.5 |
| 264.9 |
| 207.8 |
| 176.6 |
| 142.9 |
| 109.1 |
| 70.1 |
| 36.4 |
| 10.4 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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