

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: STREETWORKS

Report Number: P949652

Luminaire Tested: **GLAN-SB4B-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4B-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17169 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

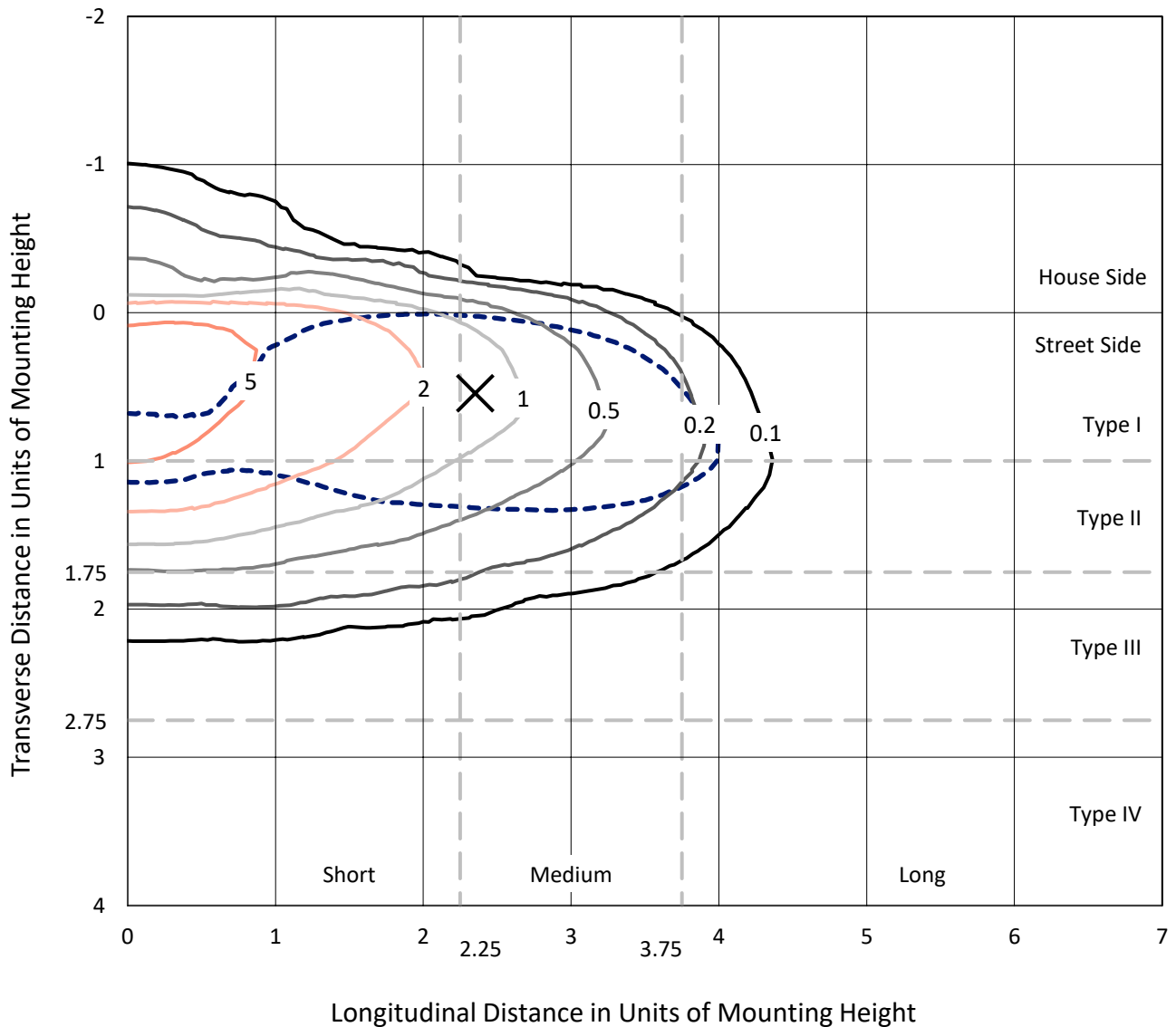
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

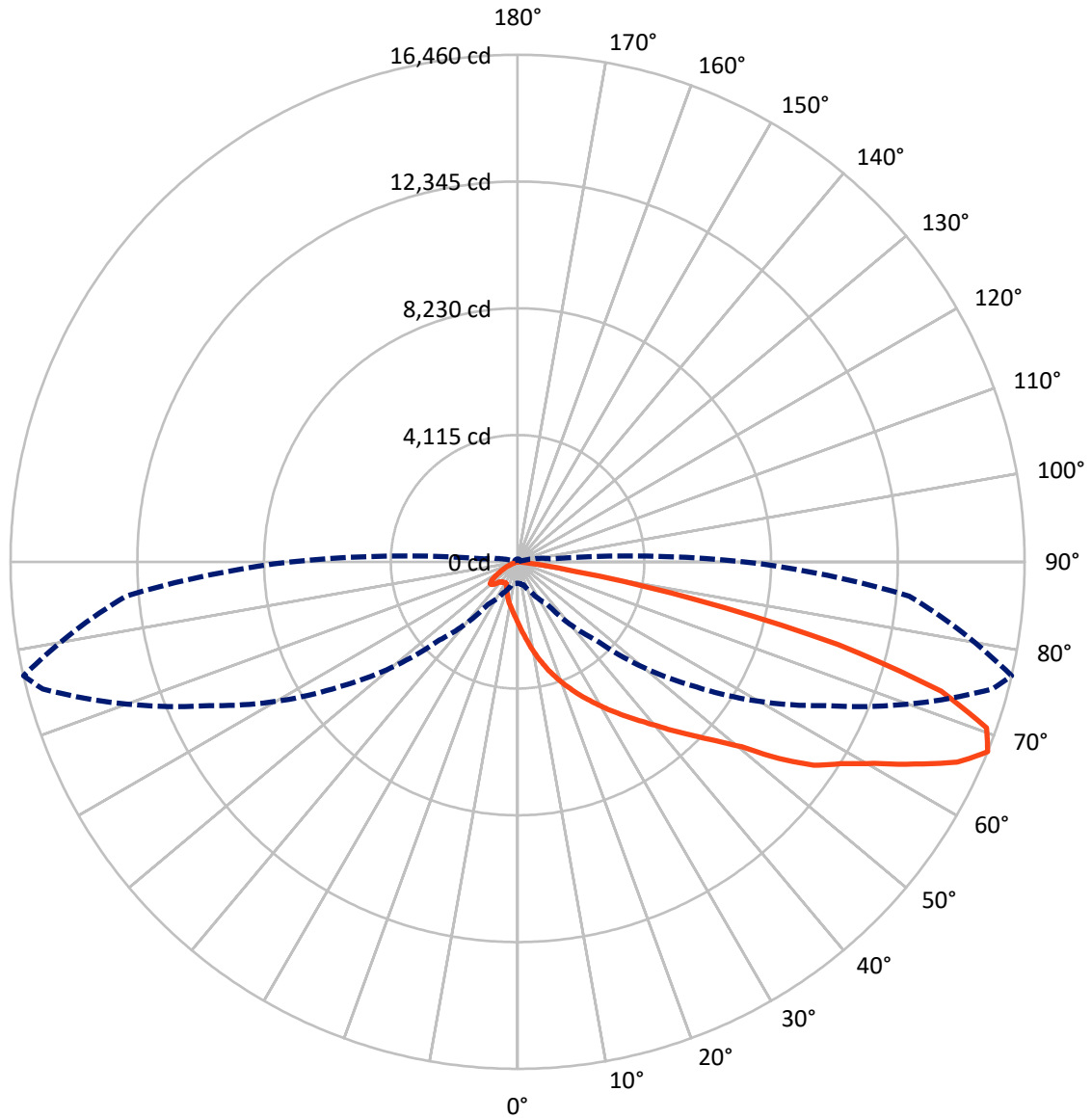
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1263.1 | 0.0 | 1263.1 |
| | % Fixture | 7.4 | 0.0 | 7.4 |
| Street Side | Lumens | 15905.9 | 0.0 | 15905.9 |
| | % Fixture | 92.6 | 0.0 | 92.6 |
| Total | Lumens | 17169.0 | 0.0 | 17169.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 202.1 | 1.2 |
| 10°-20° | 707.6 | 4.1 |
| 20°-30° | 1365.6 | 8.0 |
| 30°-40° | 2370.7 | 13.8 |
| 40°-50° | 3442.1 | 20.0 |
| 50°-60° | 3952.8 | 23.0 |
| 60°-70° | 3431.8 | 20.0 |
| 70°-80° | 1616.4 | 9.4 |
| 80°-90° | 79.9 | 0.5 |
| 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° | 17169.0 | 100.0 |
| 0°-180° | 17169.0 | 100.0 |

Coefficient of Utilization

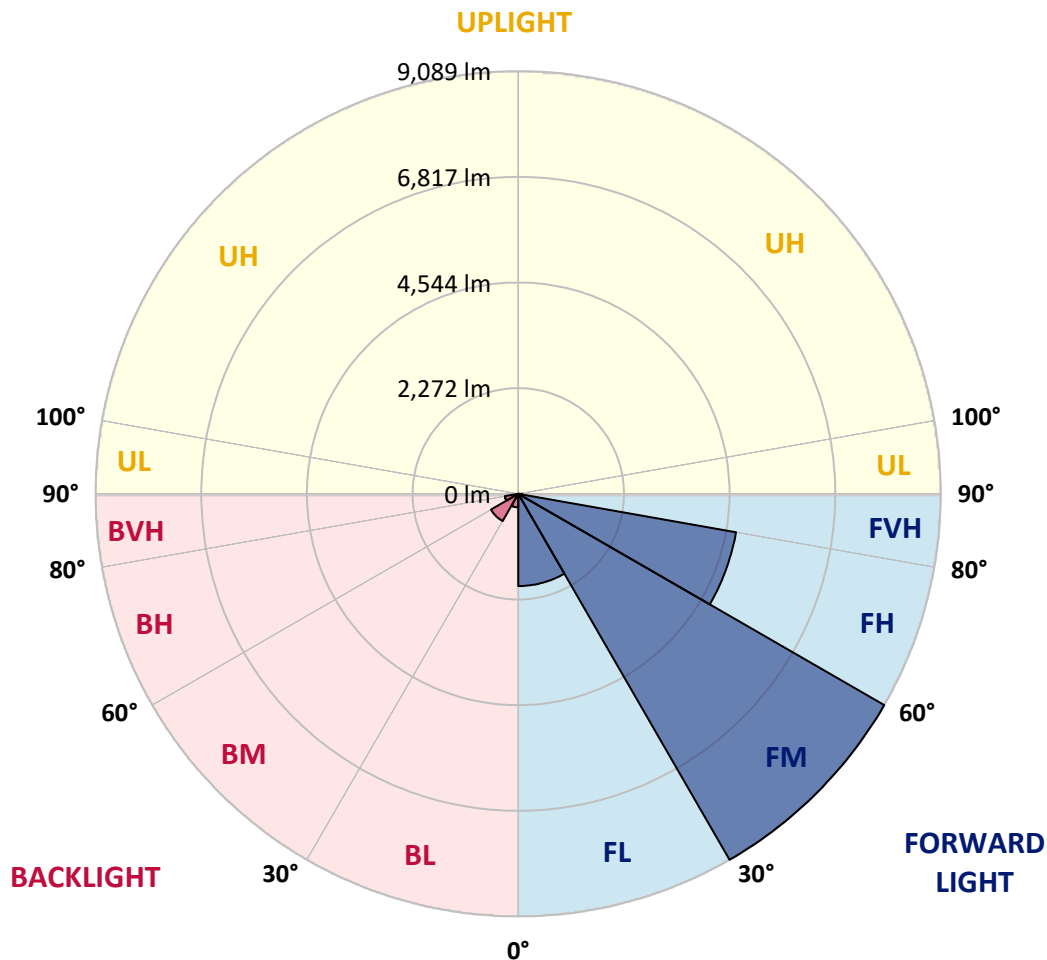


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1982.8 | 11.5 | | | |
| FM (30°-60°) | 9088.8 | 52.9 | | | |
| FH (60°-80°) | 4755.8 | 27.7 | | | G2/5000 |
| FVH (80°-90°) | 78.5 | 0.5 | | | G1/100 |
| BL (0°-30°) | 292.4 | 1.7 | B1/500 | | |
| BM (30°-60°) | 676.8 | 3.9 | B1/1000 | | |
| BH (60°-80°) | 292.4 | 1.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 1979.8 | 1979.8 | 1979.8 | 1979.8 | 1979.8 | 1979.8 | 1979.8 | 1979.8 | 1979.8 | 1979.8 |
| 2.5° | 2741.1 | 2758.1 | 2733.6 | 2686.7 | 2616.3 | 2570.5 | 2458.5 | 2353.0 | 2235.7 | 2198.4 |
| 5° | 3341.3 | 3356.2 | 3328.5 | 3277.3 | 3183.5 | 3094.0 | 2946.8 | 2726.1 | 2496.9 | 2423.4 |
| 7.5° | 3785.9 | 3794.4 | 3783.8 | 3736.9 | 3647.3 | 3546.0 | 3381.8 | 3120.6 | 2780.5 | 2699.5 |
| 10° | 4105.7 | 4133.5 | 4130.3 | 4112.1 | 4052.4 | 3970.3 | 3795.5 | 3498.0 | 3098.2 | 2993.7 |
| 12.5° | 4317.9 | 4348.8 | 4366.9 | 4407.5 | 4404.3 | 4352.0 | 4198.5 | 3884.0 | 3414.9 | 3292.3 |
| 15° | 4379.7 | 4412.8 | 4482.1 | 4575.9 | 4659.1 | 4685.7 | 4578.0 | 4262.5 | 3763.5 | 3606.8 |
| 17.5° | 4344.6 | 4395.7 | 4478.9 | 4627.1 | 4809.4 | 4929.9 | 4918.1 | 4628.2 | 4080.2 | 3901.0 |
| 20° | 4422.4 | 4471.4 | 4536.5 | 4661.2 | 4873.4 | 5091.9 | 5179.4 | 4977.8 | 4394.7 | 4207.0 |
| 22.5° | 4853.1 | 4844.6 | 4851.0 | 4871.2 | 4998.1 | 5214.5 | 5394.7 | 5295.6 | 4706.0 | 4514.1 |
| 25° | 5535.4 | 5497.1 | 5432.0 | 5322.2 | 5290.2 | 5394.7 | 5582.4 | 5577.0 | 5034.4 | 4828.6 |
| 27.5° | 6318.0 | 6311.6 | 6159.1 | 5894.7 | 5745.5 | 5705.0 | 5794.5 | 5851.0 | 5359.5 | 5139.9 |
| 30° | 7067.5 | 7084.6 | 6878.8 | 6584.5 | 6310.5 | 6151.7 | 6070.7 | 6111.2 | 5690.0 | 5475.7 |
| 32.5° | 7720.0 | 7738.1 | 7514.2 | 7169.8 | 6830.8 | 6638.9 | 6468.3 | 6368.1 | 6050.4 | 5816.9 |
| 35° | 8271.2 | 8289.3 | 8032.4 | 7651.7 | 7290.3 | 7116.5 | 6923.6 | 6649.6 | 6412.9 | 6195.4 |
| 37.5° | 8763.7 | 8758.4 | 8414.0 | 8030.2 | 7675.2 | 7537.7 | 7436.4 | 6996.1 | 6786.0 | 6576.0 |
| 40° | 9054.8 | 9077.2 | 8782.9 | 8359.7 | 8015.3 | 7915.1 | 7908.7 | 7425.7 | 7216.8 | 7013.1 |
| 42.5° | 9140.1 | 9179.5 | 8966.3 | 8618.7 | 8306.4 | 8197.6 | 8365.0 | 7890.6 | 7717.9 | 7519.5 |
| 45° | 8986.6 | 9024.9 | 8927.9 | 8687.0 | 8504.7 | 8434.3 | 8757.3 | 8372.5 | 8253.1 | 8056.9 |
| 47.5° | 8538.8 | 8586.8 | 8610.2 | 8559.0 | 8556.9 | 8628.3 | 9109.2 | 8880.0 | 8888.5 | 8688.0 |
| 50° | 7672.0 | 7753.0 | 7968.4 | 8149.6 | 8430.0 | 8781.9 | 9451.4 | 9430.1 | 9604.9 | 9432.2 |
| 52.5° | 6096.2 | 6211.4 | 6953.4 | 7449.2 | 8079.3 | 8753.1 | 9827.8 | 10312.9 | 10861.9 | 10609.2 |
| 55° | 4899.0 | 4899.0 | 5502.4 | 6429.9 | 7394.8 | 8563.3 | 9991.9 | 10886.4 | 11718.0 | 11658.3 |
| 57.5° | 3993.8 | 4041.8 | 4426.6 | 5246.5 | 6404.4 | 8111.3 | 10093.2 | 11246.8 | 12407.8 | 12364.1 |
| 60° | 2464.9 | 2568.4 | 3295.5 | 4104.7 | 5277.4 | 7306.3 | 10029.3 | 11611.4 | 13244.8 | 13279.9 |
| 62.5° | 1388.1 | 1426.5 | 1750.6 | 2953.2 | 4103.6 | 6224.2 | 9539.9 | 11815.1 | 14315.2 | 14464.4 |
| 65° | 958.5 | 977.7 | 1102.4 | 1838.0 | 2844.5 | 4955.5 | 8583.6 | 11688.2 | 15387.7 | 15689.4 |
| 67.5° | 696.2 | 705.8 | 783.6 | 1122.7 | 1687.7 | 3592.9 | 7084.6 | 11048.5 | 15956.0 | 16460.3 |
| 70° | 535.2 | 541.6 | 598.1 | 737.8 | 996.8 | 2217.6 | 5145.2 | 9776.6 | 15544.4 | 16146.8 |
| 72.5° | 435.0 | 441.4 | 485.1 | 545.9 | 661.0 | 1311.4 | 3118.5 | 7939.6 | 13727.7 | 14378.1 |
| 75° | 366.8 | 375.3 | 414.7 | 454.2 | 518.1 | 842.3 | 1462.8 | 5529.0 | 10323.5 | 10750.0 |
| 77.5° | 203.6 | 187.6 | 336.9 | 376.4 | 437.1 | 533.1 | 684.5 | 3253.9 | 5781.7 | 5900.1 |
| 80° | 126.9 | 131.1 | 267.6 | 302.8 | 335.8 | 268.7 | 313.4 | 1252.7 | 2004.4 | 1904.1 |
| 82.5° | 7.5 | 17.1 | 205.8 | 218.6 | 230.3 | 115.1 | 118.3 | 425.4 | 483.0 | 443.5 |
| 85° | 0.0 | 0.0 | 93.8 | 75.7 | 80.0 | 33.1 | 34.1 | 99.2 | 65.0 | 70.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 3.2 | 6.4 | 8.5 | 3.2 | 4.3 |
| 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° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1979.8 | 0° | 1979.8 | 1979.8 | 1979.8 | 1979.8 | 1979.8 | 1979.8 | 1979.8 | 1979.8 | 1979.8 | 1979.8 |
| 2081.1 | 2.5° | 2006.5 | 1931.9 | 1780.5 | 1632.3 | 1511.8 | 1399.9 | 1319.9 | 1244.2 | 1205.8 | 1203.7 |
| 2215.5 | 5° | 2067.3 | 1910.5 | 1607.8 | 1340.1 | 1124.8 | 952.1 | 840.1 | 760.2 | 719.7 | 705.8 |
| 2380.7 | 7.5° | 2152.6 | 1916.9 | 1456.4 | 1084.3 | 830.5 | 682.3 | 618.4 | 592.8 | 584.2 | 574.7 |
| 2567.3 | 10° | 2260.2 | 1931.9 | 1321.0 | 873.2 | 654.6 | 580.0 | 554.4 | 543.7 | 537.3 | 530.9 |
| 2777.3 | 12.5° | 2380.7 | 1945.7 | 1186.6 | 725.0 | 575.7 | 537.3 | 519.2 | 506.4 | 497.9 | 490.4 |
| 2992.7 | 15° | 2498.0 | 1954.3 | 1047.0 | 621.6 | 535.2 | 504.3 | 485.1 | 471.2 | 459.5 | 451.0 |
| 3203.8 | 17.5° | 2614.2 | 1966.0 | 915.8 | 559.7 | 502.2 | 471.2 | 452.0 | 435.0 | 425.4 | 415.8 |
| 3425.5 | 20° | 2743.2 | 1963.8 | 792.1 | 516.0 | 469.1 | 438.2 | 417.9 | 401.9 | 392.3 | 381.7 |
| 3660.1 | 22.5° | 2862.6 | 1953.2 | 683.4 | 478.7 | 435.0 | 405.1 | 382.7 | 366.8 | 357.2 | 348.6 |
| 3900.0 | 25° | 3000.1 | 1944.7 | 592.8 | 444.6 | 403.0 | 373.2 | 348.6 | 333.7 | 323.0 | 315.6 |
| 4140.9 | 27.5° | 3132.3 | 1931.9 | 526.7 | 413.7 | 372.1 | 343.3 | 319.8 | 302.8 | 293.2 | 287.9 |
| 4389.3 | 30° | 3262.4 | 1928.7 | 502.2 | 383.8 | 344.4 | 315.6 | 292.1 | 276.1 | 268.7 | 266.5 |
| 4662.3 | 32.5° | 3419.1 | 1937.2 | 512.8 | 373.2 | 318.8 | 290.0 | 267.6 | 255.9 | 248.4 | 248.4 |
| 4966.1 | 35° | 3586.5 | 1935.1 | 528.8 | 382.7 | 301.7 | 264.4 | 247.3 | 239.9 | 232.4 | 232.4 |
| 5303.0 | 37.5° | 3796.6 | 1938.3 | 541.6 | 398.7 | 295.3 | 243.1 | 233.5 | 223.9 | 219.6 | 219.6 |
| 5671.9 | 40° | 4110.0 | 2043.8 | 535.2 | 412.6 | 293.2 | 228.2 | 209.0 | 205.8 | 202.6 | 202.6 |
| 6088.8 | 42.5° | 4493.8 | 2273.0 | 543.7 | 413.7 | 292.1 | 217.5 | 191.9 | 198.3 | 190.8 | 189.8 |
| 6558.9 | 45° | 4913.9 | 2523.6 | 598.1 | 391.3 | 291.1 | 212.2 | 183.4 | 190.8 | 179.1 | 179.1 |
| 7103.7 | 47.5° | 5330.7 | 2772.0 | 653.5 | 359.3 | 287.9 | 211.1 | 175.9 | 171.6 | 168.5 | 169.5 |
| 7813.8 | 50° | 5905.4 | 2974.6 | 674.9 | 315.6 | 280.4 | 209.0 | 162.1 | 163.1 | 161.0 | 163.1 |
| 8814.9 | 52.5° | 6531.2 | 3017.2 | 649.3 | 266.5 | 259.1 | 202.6 | 152.5 | 156.7 | 155.7 | 157.8 |
| 9519.6 | 55° | 6921.4 | 2971.4 | 536.3 | 221.8 | 226.0 | 177.0 | 142.9 | 151.4 | 151.4 | 151.4 |
| 10208.4 | 57.5° | 7324.4 | 2776.3 | 380.6 | 180.2 | 187.6 | 145.0 | 134.3 | 146.1 | 145.0 | 143.9 |
| 11037.8 | 60° | 7614.4 | 2460.7 | 250.5 | 148.2 | 149.3 | 119.4 | 124.7 | 137.5 | 136.5 | 131.1 |
| 11892.9 | 62.5° | 7830.9 | 2112.0 | 161.0 | 125.8 | 114.1 | 107.7 | 114.1 | 124.7 | 120.5 | 108.7 |
| 12617.9 | 65° | 7806.3 | 1629.1 | 123.7 | 107.7 | 93.8 | 93.8 | 99.2 | 108.7 | 96.0 | 76.8 |
| 12756.5 | 67.5° | 7351.1 | 1102.4 | 102.4 | 90.6 | 78.9 | 77.8 | 82.1 | 90.6 | 82.1 | 65.0 |
| 12046.4 | 70° | 6537.6 | 720.7 | 82.1 | 70.4 | 62.9 | 57.6 | 66.1 | 77.8 | 69.3 | 52.2 |
| 10255.3 | 72.5° | 5306.2 | 439.3 | 61.8 | 51.2 | 45.8 | 37.3 | 52.2 | 64.0 | 55.4 | 38.4 |
| 7131.5 | 75° | 3433.0 | 223.9 | 42.6 | 33.1 | 24.5 | 22.4 | 38.4 | 48.0 | 38.4 | 23.5 |
| 3164.3 | 77.5° | 1313.5 | 93.8 | 23.5 | 14.9 | 12.8 | 10.7 | 21.3 | 28.8 | 16.0 | 5.3 |
| 613.0 | 80° | 252.7 | 39.4 | 11.7 | 7.5 | 6.4 | 4.3 | 3.2 | 2.1 | 0.0 | 0.0 |
| 108.7 | 82.5° | 43.7 | 12.8 | 4.3 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 21.3 | 85° | 14.9 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.5 | 87.5° | 5.3 | 0.0 | 0.0 | 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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| 180° |
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| 1979.8 |
| 1201.5 |
| 703.7 |
| 572.5 |
| 528.8 |
| 488.3 |
| 449.9 |
| 414.7 |
| 380.6 |
| 347.6 |
| 314.5 |
| 287.9 |
| 265.5 |
| 248.4 |
| 232.4 |
| 219.6 |
| 202.6 |
| 188.7 |
| 179.1 |
| 169.5 |
| 163.1 |
| 157.8 |
| 151.4 |
| 143.9 |
| 131.1 |
| 106.6 |
| 74.6 |
| 62.9 |
| 50.1 |
| 36.2 |
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| 4.3 |
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