

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: P948921

Luminaire Tested: **GLAN-SB3D-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB3D-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22103 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

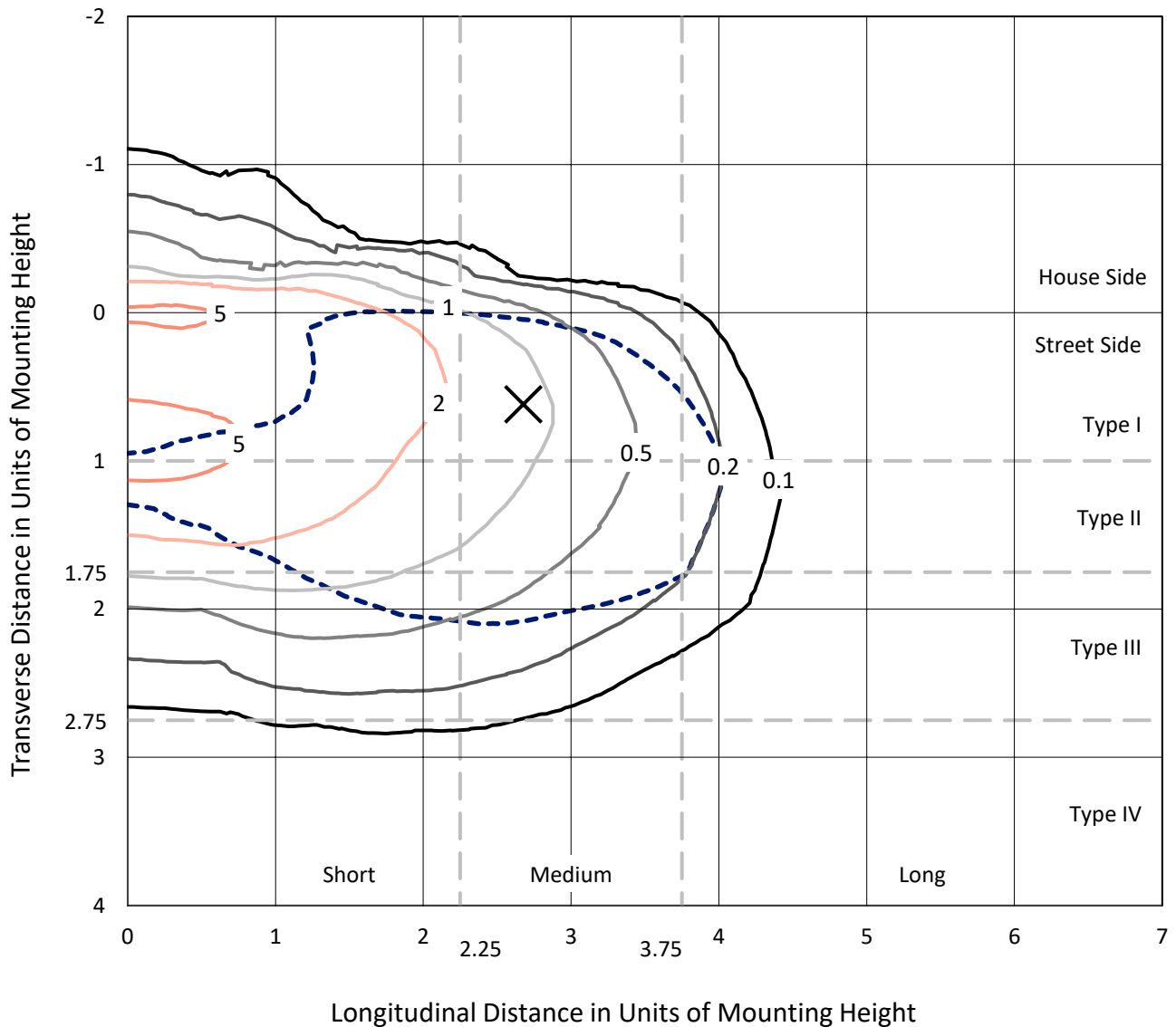
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

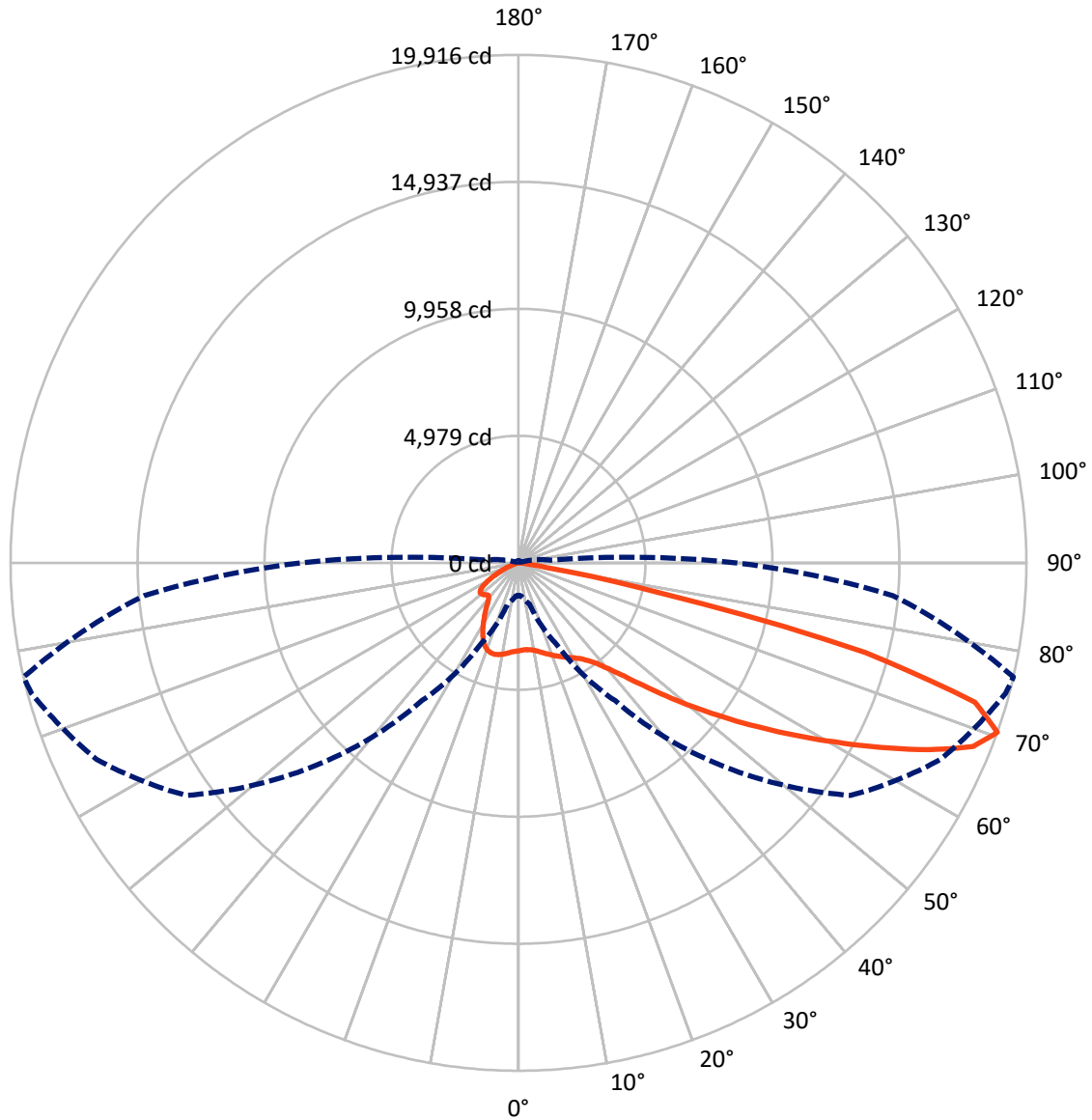
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2330.0 | 0.0 | 2330.0 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 19773.0 | 0.0 | 19773.0 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 22103.0 | 0.0 | 22103.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 297.1 | 1.3 |
| 10°-20° | 705.4 | 3.2 |
| 20°-30° | 1091.0 | 4.9 |
| 30°-40° | 1979.7 | 9.0 |
| 40°-50° | 3736.9 | 16.9 |
| 50°-60° | 5399.5 | 24.4 |
| 60°-70° | 5747.6 | 26.0 |
| 70°-80° | 3045.8 | 13.8 |
| 80°-90° | 100.0 | 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° | 22103.0 | 100.0 |
| 0°-180° | 22103.0 | 100.0 |

Coefficient of Utilization

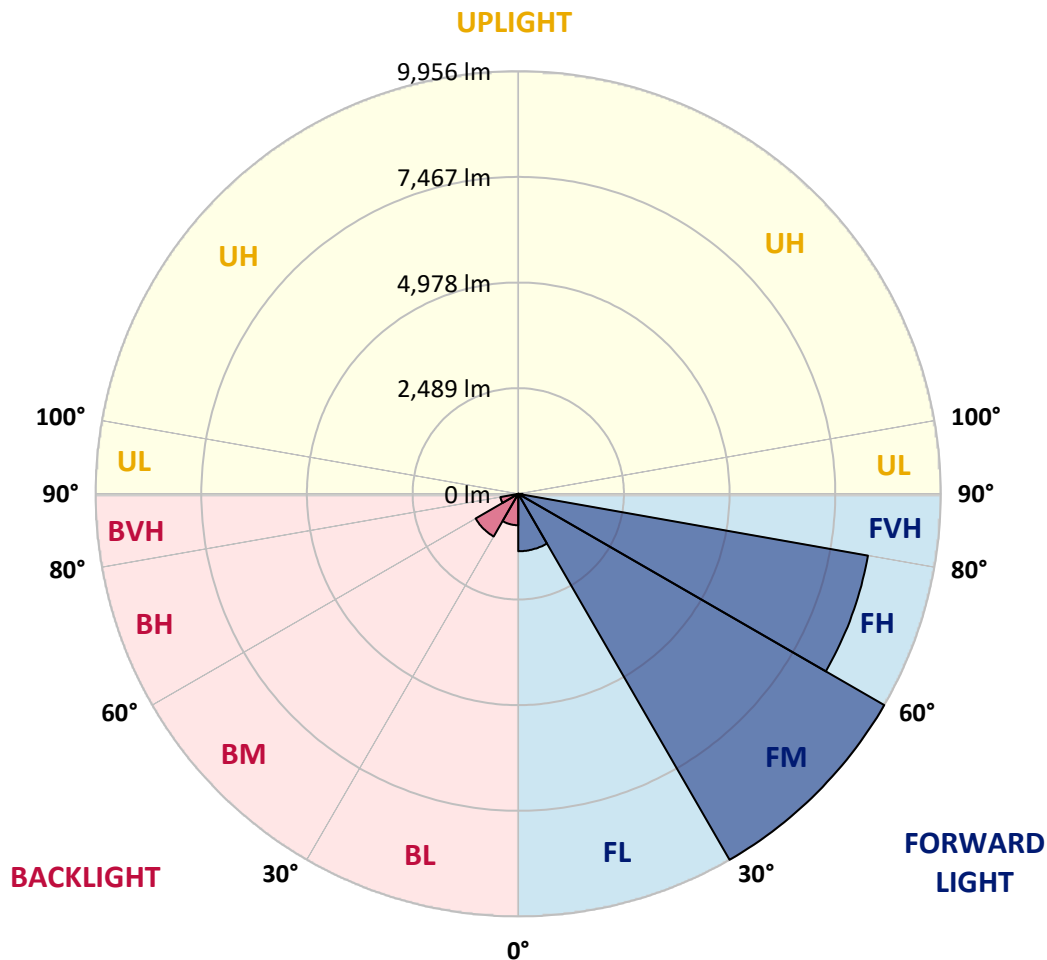


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1353.2 | 6.1 | | | |
| FM (30°-60°) | 9956.2 | 45.0 | | | |
| FH (60°-80°) | 8366.3 | 37.9 | | | G4/12000 |
| FVH (80°-90°) | 97.3 | 0.4 | | | G1/100 |
| BL (0°-30°) | 740.3 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 1159.9 | 5.2 | B2/2500 | | |
| BH (60°-80°) | 427.1 | 1.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.7 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3447.7 | 3447.7 | 3447.7 | 3447.7 | 3447.7 | 3447.7 | 3447.7 | 3447.7 | 3447.7 | 3447.7 |
| 2.5° | 3236.9 | 3266.2 | 3262.0 | 3281.6 | 3288.5 | 3316.5 | 3344.4 | 3382.1 | 3423.9 | 3422.5 |
| 5° | 3054.0 | 3083.4 | 3090.3 | 3116.9 | 3150.4 | 3193.6 | 3250.9 | 3326.2 | 3404.4 | 3417.0 |
| 7.5° | 2837.7 | 2868.4 | 2886.6 | 2939.6 | 3001.0 | 3090.3 | 3183.9 | 3294.1 | 3423.9 | 3442.1 |
| 10° | 2621.3 | 2649.3 | 2673.0 | 2748.4 | 2846.1 | 2978.7 | 3130.8 | 3289.9 | 3464.4 | 3490.9 |
| 12.5° | 2487.3 | 2513.9 | 2540.4 | 2606.0 | 2727.4 | 2889.3 | 3095.9 | 3309.5 | 3531.4 | 3569.1 |
| 15° | 2439.9 | 2463.6 | 2484.6 | 2543.2 | 2656.2 | 2840.5 | 3088.9 | 3350.0 | 3616.6 | 3666.8 |
| 17.5° | 2446.9 | 2459.4 | 2473.4 | 2518.1 | 2628.3 | 2818.2 | 3101.5 | 3419.8 | 3717.1 | 3761.7 |
| 20° | 2487.3 | 2494.3 | 2495.7 | 2526.4 | 2624.1 | 2815.4 | 3126.6 | 3486.8 | 3812.0 | 3872.0 |
| 22.5° | 2539.0 | 2541.8 | 2539.0 | 2559.9 | 2650.7 | 2836.3 | 3160.1 | 3567.7 | 3918.1 | 3973.9 |
| 25° | 2780.5 | 2727.4 | 2660.4 | 2619.9 | 2695.3 | 2876.8 | 3210.4 | 3676.6 | 4033.9 | 4088.3 |
| 27.5° | 3530.0 | 3377.9 | 3137.8 | 2868.4 | 2787.4 | 2935.4 | 3280.2 | 3786.9 | 4151.2 | 4200.0 |
| 30° | 4747.2 | 4547.6 | 4140.0 | 3532.8 | 3083.4 | 3058.2 | 3370.9 | 3897.1 | 4275.4 | 4328.4 |
| 32.5° | 5967.1 | 5918.3 | 5447.9 | 4607.6 | 3749.2 | 3331.8 | 3521.6 | 4046.5 | 4440.1 | 4482.0 |
| 35° | 7201.0 | 7101.9 | 6716.7 | 5886.2 | 4775.1 | 3888.7 | 3772.9 | 4241.9 | 4656.4 | 4703.9 |
| 37.5° | 8146.0 | 8086.0 | 7847.3 | 7163.3 | 5992.2 | 4748.6 | 4202.8 | 4544.8 | 4970.5 | 5023.5 |
| 40° | 8980.7 | 8952.8 | 8871.8 | 8421.0 | 7353.2 | 5873.6 | 4871.4 | 5013.8 | 5406.0 | 5468.8 |
| 42.5° | 9636.7 | 9702.3 | 9748.4 | 9622.8 | 8756.0 | 7157.8 | 5770.3 | 5672.6 | 6013.2 | 6077.4 |
| 45° | 10308.1 | 10330.4 | 10516.1 | 10697.5 | 10149.0 | 8500.5 | 6783.7 | 6444.5 | 6768.3 | 6847.9 |
| 47.5° | 10739.4 | 10828.8 | 11155.4 | 11475.0 | 11320.1 | 9832.1 | 7872.4 | 7356.0 | 7643.5 | 7792.8 |
| 50° | 10771.5 | 10940.4 | 11389.9 | 11946.8 | 12172.9 | 11099.5 | 9056.1 | 8394.4 | 8700.1 | 8864.8 |
| 52.5° | 10236.9 | 10499.3 | 11195.9 | 12011.0 | 12633.5 | 12172.9 | 10280.2 | 9432.9 | 9825.2 | 10040.1 |
| 55° | 7848.7 | 8192.1 | 10465.8 | 11662.1 | 12651.7 | 12986.7 | 11472.2 | 10514.7 | 11078.6 | 11321.5 |
| 57.5° | 6838.1 | 7011.2 | 8228.3 | 11056.3 | 12315.3 | 13314.7 | 12549.8 | 11544.8 | 12442.3 | 12743.8 |
| 60° | 5689.4 | 5916.9 | 6900.9 | 10065.2 | 11858.9 | 13346.8 | 13501.7 | 12873.6 | 13920.5 | 14259.7 |
| 62.5° | 3866.4 | 4113.5 | 5091.9 | 8362.3 | 11234.9 | 13331.5 | 14282.0 | 14241.5 | 15563.4 | 15927.7 |
| 65° | 2395.2 | 2550.2 | 3195.0 | 6828.3 | 10362.5 | 13348.2 | 15098.6 | 15902.5 | 17297.0 | 17666.9 |
| 67.5° | 1892.7 | 1963.9 | 2300.3 | 5242.7 | 8859.3 | 12971.3 | 15913.7 | 17464.5 | 18928.7 | 19221.8 |
| 70° | 1271.6 | 1314.9 | 1673.6 | 3514.7 | 6591.0 | 11232.1 | 15898.4 | 18248.9 | 19769.0 | 19915.5 |
| 72.5° | 670.0 | 703.5 | 978.5 | 1627.5 | 3980.9 | 7984.1 | 13401.2 | 17310.9 | 18932.9 | 18712.3 |
| 75° | 335.0 | 390.8 | 658.8 | 826.3 | 1700.1 | 4452.7 | 8321.9 | 13648.3 | 14901.7 | 14047.5 |
| 77.5° | 254.0 | 307.1 | 544.4 | 544.4 | 591.8 | 1499.1 | 3524.4 | 7443.9 | 6866.0 | 5717.3 |
| 80° | 161.9 | 209.4 | 476.0 | 411.8 | 247.1 | 381.1 | 918.4 | 2085.4 | 1458.6 | 1109.7 |
| 82.5° | 94.9 | 136.8 | 396.4 | 272.2 | 138.2 | 141.0 | 259.6 | 443.9 | 378.3 | 294.5 |
| 85° | 37.7 | 89.3 | 272.2 | 107.5 | 54.4 | 34.9 | 78.2 | 94.9 | 78.2 | 58.6 |
| 87.5° | 0.0 | 20.9 | 47.5 | 0.0 | 4.2 | 2.8 | 5.6 | 7.0 | 7.0 | 5.6 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3447.7 | 0° | 3447.7 | 3447.7 | 3447.7 | 3447.7 | 3447.7 | 3447.7 | 3447.7 | 3447.7 | 3447.7 | 3447.7 |
| 3450.5 | 2.5° | 3463.0 | 3465.8 | 3474.2 | 3475.6 | 3456.0 | 3430.9 | 3421.1 | 3417.0 | 3400.2 | 3398.8 |
| 3472.8 | 5° | 3504.9 | 3517.5 | 3504.9 | 3468.6 | 3382.1 | 3260.6 | 3168.5 | 3093.1 | 3024.7 | 3003.8 |
| 3549.6 | 7.5° | 3588.6 | 3601.2 | 3563.5 | 3421.1 | 3203.4 | 2961.9 | 2744.2 | 2590.6 | 2452.5 | 2400.8 |
| 3643.1 | 10° | 3708.7 | 3725.4 | 3606.8 | 3319.3 | 2934.0 | 2546.0 | 2177.5 | 1917.9 | 1715.5 | 1633.1 |
| 3770.1 | 12.5° | 3859.4 | 3866.4 | 3630.5 | 3164.3 | 2583.7 | 2029.5 | 1507.5 | 1229.7 | 1049.7 | 982.7 |
| 3923.6 | 15° | 4025.5 | 4015.8 | 3633.3 | 2953.5 | 2106.3 | 1434.9 | 984.1 | 808.2 | 735.6 | 713.3 |
| 4077.2 | 17.5° | 4200.0 | 4159.5 | 3577.5 | 2649.3 | 1582.9 | 981.3 | 730.0 | 688.1 | 675.6 | 670.0 |
| 4229.3 | 20° | 4371.7 | 4281.0 | 3475.6 | 2251.5 | 1136.2 | 732.8 | 663.0 | 650.5 | 643.5 | 640.7 |
| 4382.9 | 22.5° | 4528.0 | 4373.1 | 3301.1 | 1789.4 | 824.9 | 647.7 | 626.7 | 615.6 | 603.0 | 597.4 |
| 4532.2 | 25° | 4680.2 | 4426.1 | 3055.4 | 1358.1 | 660.2 | 605.8 | 589.0 | 568.1 | 551.3 | 544.4 |
| 4692.7 | 27.5° | 4828.1 | 4459.6 | 2748.4 | 1005.0 | 589.0 | 566.7 | 536.0 | 506.7 | 494.1 | 491.3 |
| 4864.4 | 30° | 4985.9 | 4470.8 | 2399.4 | 749.6 | 545.8 | 517.8 | 473.2 | 439.7 | 432.7 | 434.1 |
| 5096.1 | 32.5° | 5178.5 | 4487.6 | 2047.7 | 614.2 | 509.5 | 459.2 | 406.2 | 371.3 | 365.7 | 371.3 |
| 5433.9 | 35° | 5408.8 | 4521.1 | 1708.5 | 565.3 | 477.4 | 399.2 | 342.0 | 312.7 | 307.1 | 311.3 |
| 5866.6 | 37.5° | 5721.5 | 4575.5 | 1391.6 | 555.5 | 450.8 | 349.0 | 287.5 | 263.8 | 263.8 | 265.2 |
| 6397.0 | 40° | 6137.4 | 4720.7 | 1108.3 | 548.6 | 436.9 | 311.3 | 242.9 | 233.1 | 237.3 | 240.1 |
| 7072.6 | 42.5° | 6644.1 | 5029.1 | 917.1 | 540.2 | 421.5 | 294.5 | 220.5 | 216.4 | 223.3 | 226.1 |
| 7882.2 | 45° | 7212.2 | 5420.0 | 850.1 | 526.2 | 407.6 | 305.7 | 210.8 | 205.2 | 213.6 | 215.0 |
| 8789.5 | 47.5° | 7799.8 | 5802.4 | 841.7 | 510.9 | 393.6 | 322.4 | 208.0 | 195.4 | 205.2 | 206.6 |
| 9758.2 | 50° | 8394.4 | 6052.3 | 850.1 | 487.1 | 371.3 | 322.4 | 209.4 | 185.6 | 194.0 | 198.2 |
| 10763.1 | 52.5° | 8993.3 | 6166.7 | 844.5 | 435.5 | 332.2 | 302.9 | 209.4 | 177.3 | 185.6 | 188.4 |
| 11849.1 | 55° | 9573.9 | 6144.4 | 759.3 | 358.7 | 282.0 | 268.0 | 203.8 | 170.3 | 175.9 | 177.3 |
| 12875.0 | 57.5° | 10033.1 | 5833.1 | 601.6 | 279.2 | 228.9 | 223.3 | 185.6 | 161.9 | 166.1 | 164.7 |
| 13815.8 | 60° | 10273.2 | 5149.2 | 429.9 | 215.0 | 180.1 | 175.9 | 163.3 | 150.7 | 153.5 | 146.6 |
| 14612.8 | 62.5° | 10276.0 | 4244.7 | 287.5 | 170.3 | 143.8 | 139.6 | 139.6 | 135.4 | 132.6 | 118.6 |
| 15229.8 | 65° | 10056.9 | 3241.1 | 191.2 | 135.4 | 115.9 | 108.9 | 117.2 | 115.9 | 106.1 | 86.5 |
| 15418.2 | 67.5° | 9560.0 | 2124.4 | 145.2 | 106.1 | 89.3 | 85.1 | 93.5 | 97.7 | 90.7 | 72.6 |
| 14731.5 | 70° | 8538.2 | 1236.7 | 120.0 | 82.4 | 67.0 | 62.8 | 75.4 | 83.7 | 75.4 | 58.6 |
| 12591.7 | 72.5° | 7092.1 | 667.2 | 97.7 | 61.4 | 46.1 | 41.9 | 60.0 | 68.4 | 60.0 | 43.3 |
| 8079.0 | 75° | 4602.0 | 357.3 | 75.4 | 40.5 | 23.7 | 26.5 | 44.7 | 50.2 | 41.9 | 27.9 |
| 2371.5 | 77.5° | 1545.2 | 157.7 | 47.5 | 19.5 | 11.2 | 11.2 | 26.5 | 30.7 | 19.5 | 9.8 |
| 431.3 | 80° | 344.8 | 65.6 | 19.5 | 8.4 | 4.2 | 4.2 | 5.6 | 5.6 | 2.8 | 0.0 |
| 132.6 | 82.5° | 113.1 | 26.5 | 8.4 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 33.5 | 85° | 43.3 | 9.8 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11.2 | 87.5° | 16.7 | 1.4 | 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° |
| <hr/> |
| 3447.7 |
| 3401.6 |
| 2991.2 |
| 2379.9 |
| 1598.2 |
| 961.7 |
| 713.3 |
| 668.6 |
| 637.9 |
| 596.0 |
| 541.6 |
| 488.5 |
| 434.1 |
| 369.9 |
| 309.9 |
| 263.8 |
| 240.1 |
| 226.1 |
| 216.4 |
| 208.0 |
| 199.6 |
| 188.4 |
| 177.3 |
| 164.7 |
| 145.2 |
| 114.5 |
| 83.7 |
| 71.2 |
| 55.8 |
| 41.9 |
| 25.1 |
| 8.4 |
| 0.0 |
| 0.0 |
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