

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: P850637

Luminaire Tested: **GLAN-SB8B-727-U-T3-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB8B-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31758 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

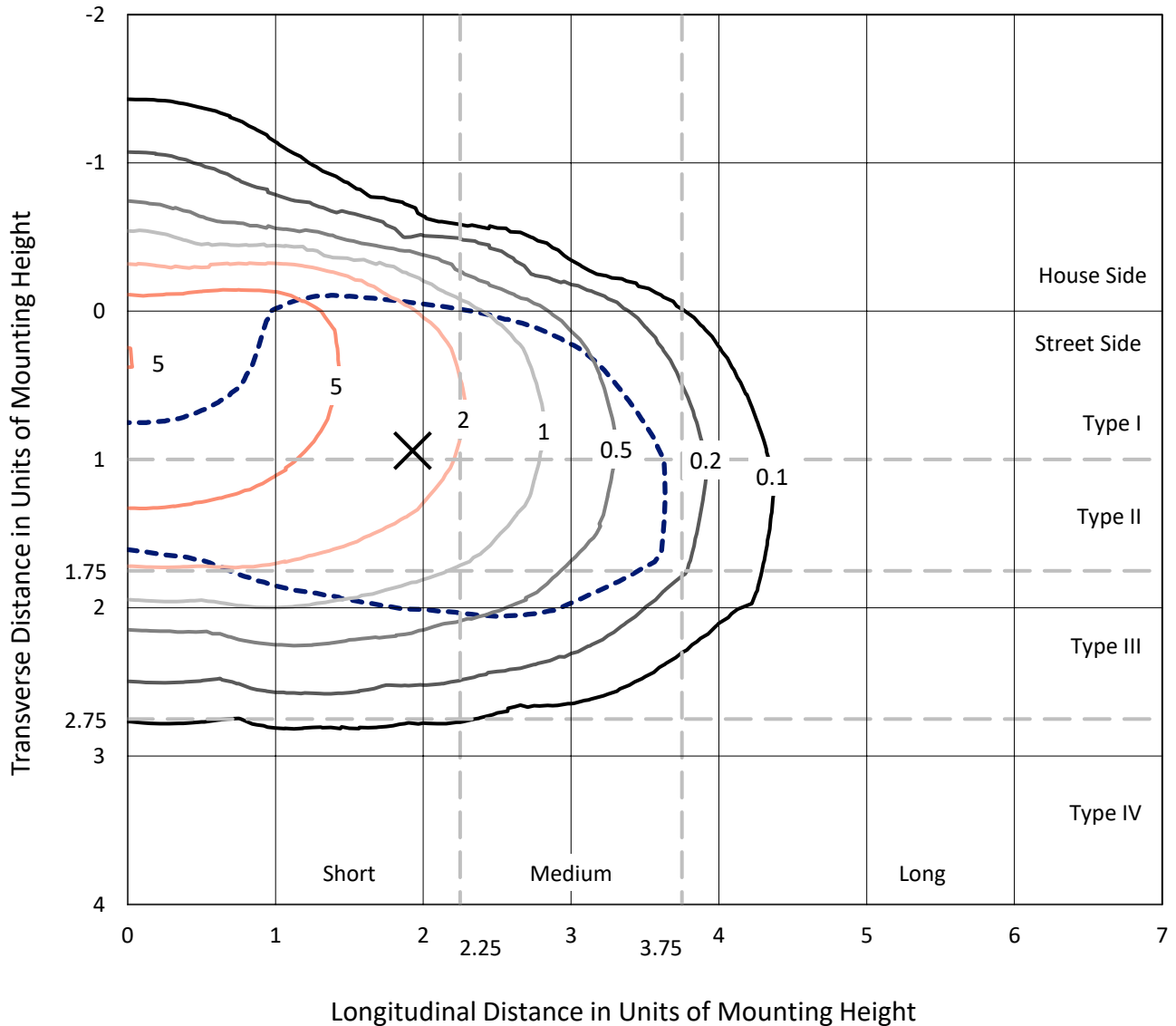
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

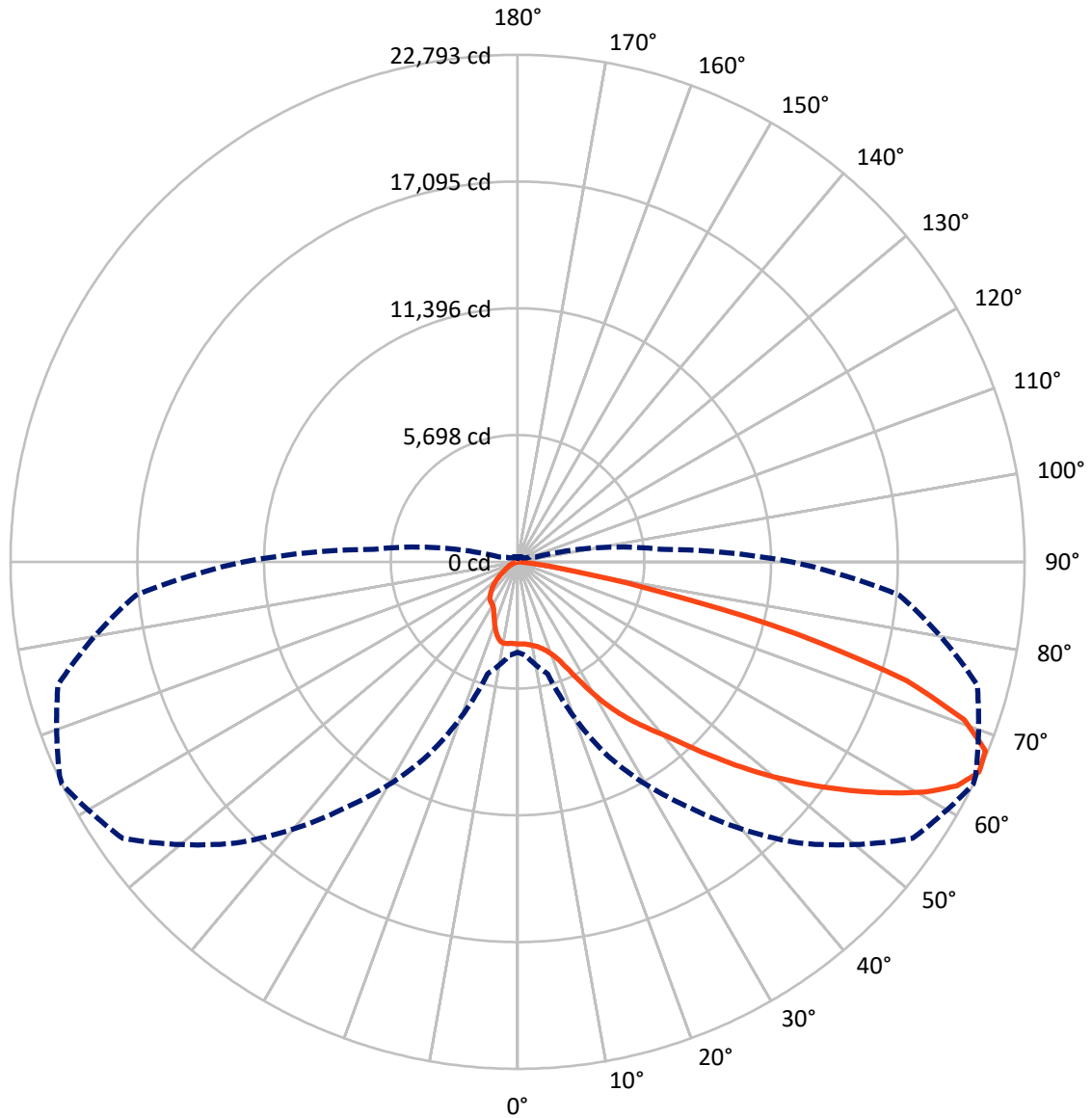
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4247.0 | 0.0 | 4247.0 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 27511.0 | 0.0 | 27511.0 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 31758.0 | 0.0 | 31758.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 340.8 | 1.1 |
| 10°-20° | 924.3 | 2.9 |
| 20°-30° | 1751.5 | 5.5 |
| 30°-40° | 3544.2 | 11.2 |
| 40°-50° | 6037.6 | 19.0 |
| 50°-60° | 8210.7 | 25.9 |
| 60°-70° | 7710.2 | 24.3 |
| 70°-80° | 3089.1 | 9.7 |
| 80°-90° | 149.7 | 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° | 31758.0 | 100.0 |
| 0°-180° | 31758.0 | 100.0 |

Coefficient of Utilization



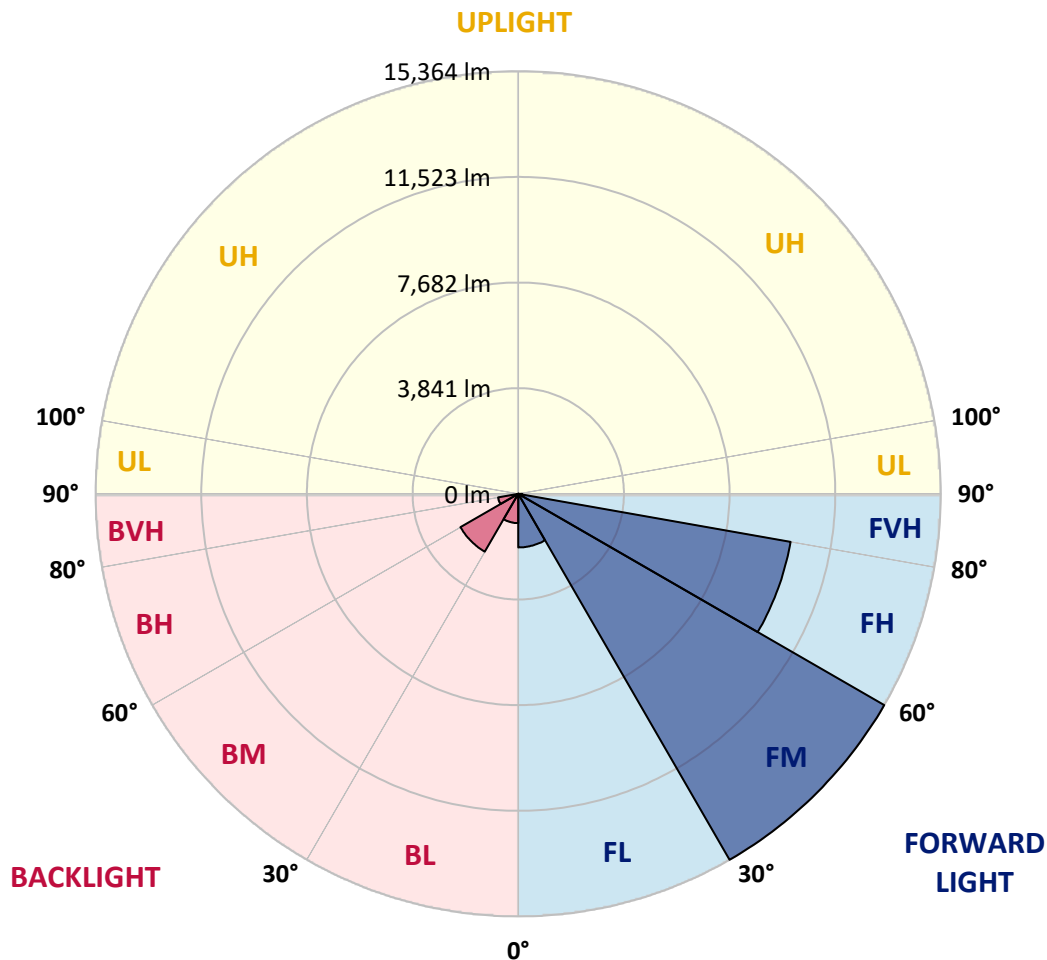
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1950.3 | 6.1 | | | |
| FM (30°-60°) | 15364.5 | 48.4 | | | |
| FH (60°-80°) | 10053.9 | 31.7 | | | G4/12000 |
| FVH (80°-90°) | 142.3 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1066.3 | 3.4 | B3/2500 | | |
| BM (30°-60°) | 2428.0 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 745.4 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 7.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3693.8 | 3693.8 | 3693.8 | 3693.8 | 3693.8 | 3693.8 | 3693.8 | 3693.8 | 3693.8 | 3693.8 |
| 2.5° | 3681.0 | 3706.6 | 3700.2 | 3693.8 | 3691.7 | 3695.9 | 3698.0 | 3695.9 | 3695.9 | 3695.9 |
| 5° | 3610.8 | 3632.0 | 3632.0 | 3646.9 | 3668.2 | 3693.8 | 3712.9 | 3717.2 | 3721.5 | 3727.8 |
| 7.5° | 3476.6 | 3493.7 | 3506.4 | 3555.4 | 3608.6 | 3676.8 | 3734.2 | 3764.0 | 3768.3 | 3791.7 |
| 10° | 3385.1 | 3406.4 | 3427.7 | 3478.8 | 3555.4 | 3657.6 | 3755.5 | 3827.9 | 3838.6 | 3893.9 |
| 12.5° | 3380.8 | 3402.1 | 3429.8 | 3485.1 | 3574.6 | 3683.1 | 3802.4 | 3906.7 | 3925.8 | 4006.7 |
| 15° | 3425.5 | 3451.1 | 3476.6 | 3544.8 | 3640.6 | 3772.6 | 3900.3 | 4030.2 | 4049.3 | 4164.3 |
| 17.5° | 3517.1 | 3551.1 | 3570.3 | 3638.4 | 3740.6 | 3887.5 | 4055.7 | 4204.7 | 4221.8 | 4355.9 |
| 20° | 3698.0 | 3738.5 | 3744.9 | 3800.2 | 3900.3 | 4057.8 | 4258.0 | 4443.2 | 4464.5 | 4617.8 |
| 22.5° | 4072.7 | 4130.2 | 4079.1 | 4106.8 | 4196.2 | 4353.8 | 4570.9 | 4805.1 | 4834.9 | 5009.5 |
| 25° | 4732.7 | 4813.6 | 4681.6 | 4634.8 | 4673.1 | 4837.0 | 5109.6 | 5405.5 | 5439.6 | 5580.1 |
| 27.5° | 6029.3 | 5925.0 | 5724.8 | 5529.0 | 5414.0 | 5507.7 | 5814.3 | 6180.4 | 6223.0 | 6359.3 |
| 30° | 7453.6 | 7362.0 | 7091.6 | 6657.3 | 6384.8 | 6369.9 | 6653.1 | 7061.8 | 7110.8 | 7240.7 |
| 32.5° | 8880.0 | 8792.7 | 8498.9 | 7964.5 | 7491.9 | 7257.7 | 7453.6 | 7907.0 | 7932.6 | 8015.6 |
| 35° | 10283.0 | 10193.6 | 9899.8 | 9352.6 | 8771.4 | 8239.2 | 8200.8 | 8711.8 | 8720.3 | 8807.6 |
| 37.5° | 11694.5 | 11620.0 | 11307.0 | 10770.5 | 10197.8 | 9463.3 | 9107.8 | 9474.0 | 9484.6 | 9569.8 |
| 40° | 12701.5 | 12733.4 | 12518.4 | 12103.3 | 11611.5 | 10808.8 | 10125.4 | 10285.1 | 10221.2 | 10363.9 |
| 42.5° | 13565.9 | 13629.7 | 13442.4 | 13233.8 | 12948.5 | 12241.7 | 11385.8 | 11358.1 | 11255.9 | 11332.6 |
| 45° | 14313.2 | 14366.4 | 14198.2 | 14149.2 | 14142.8 | 13646.8 | 12763.3 | 12597.2 | 12454.5 | 12439.6 |
| 47.5° | 14587.8 | 14690.0 | 14762.4 | 14926.3 | 15245.6 | 15037.0 | 14187.5 | 13929.9 | 13770.3 | 13653.2 |
| 50° | 14692.1 | 14800.7 | 15047.7 | 15524.5 | 16280.3 | 16369.7 | 15605.4 | 15315.9 | 15120.0 | 14907.1 |
| 52.5° | 14551.6 | 14745.3 | 15077.5 | 15880.1 | 16976.5 | 17438.5 | 16965.9 | 16712.5 | 16489.0 | 16141.9 |
| 55° | 13723.4 | 13917.2 | 14596.3 | 15875.8 | 17323.5 | 18187.9 | 18251.8 | 18138.9 | 17887.7 | 17340.6 |
| 57.5° | 11977.7 | 12265.1 | 13340.2 | 15335.1 | 17317.1 | 18833.0 | 19512.1 | 19593.0 | 19312.0 | 18528.5 |
| 60° | 9559.1 | 9948.7 | 11260.2 | 14136.4 | 16782.8 | 19182.1 | 20617.1 | 21021.6 | 20723.5 | 19699.5 |
| 62.5° | 6670.1 | 7121.4 | 8362.6 | 12258.7 | 15560.7 | 18930.9 | 21424.0 | 22171.2 | 21945.6 | 20746.9 |
| 65° | 4068.5 | 4213.3 | 5213.9 | 9646.4 | 13482.8 | 17879.2 | 21673.0 | 22792.9 | 22718.4 | 21387.8 |
| 67.5° | 2710.2 | 2831.5 | 3119.0 | 6614.7 | 10466.1 | 15777.9 | 21076.9 | 22684.3 | 22705.6 | 21283.4 |
| 70° | 1632.9 | 1737.2 | 1924.6 | 3847.1 | 6782.9 | 12488.6 | 19231.1 | 21300.5 | 21424.0 | 19889.0 |
| 72.5° | 672.8 | 743.0 | 913.3 | 1743.6 | 3512.8 | 7926.2 | 15313.8 | 18288.0 | 18575.4 | 16723.2 |
| 75° | 381.1 | 417.3 | 536.5 | 875.0 | 1524.4 | 3693.8 | 9276.0 | 12982.5 | 13406.2 | 11526.3 |
| 77.5° | 253.3 | 270.4 | 347.0 | 566.3 | 858.0 | 1260.4 | 3964.2 | 6763.8 | 7572.8 | 6295.4 |
| 80° | 170.3 | 185.2 | 238.4 | 379.0 | 557.8 | 540.8 | 1262.5 | 2505.8 | 3082.8 | 2163.0 |
| 82.5° | 115.0 | 117.1 | 170.3 | 249.1 | 353.4 | 261.9 | 372.6 | 779.2 | 979.3 | 625.9 |
| 85° | 66.0 | 63.9 | 125.6 | 144.8 | 157.5 | 108.6 | 112.8 | 234.2 | 306.6 | 264.0 |
| 87.5° | 8.5 | 12.8 | 49.0 | 38.3 | 21.3 | 23.4 | 23.4 | 40.5 | 59.6 | 63.9 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3693.8 | 0° | 3693.8 | 3693.8 | 3693.8 | 3693.8 | 3693.8 | 3693.8 | 3693.8 | 3693.8 | 3693.8 | 3693.8 |
| 3698.0 | 2.5° | 3698.0 | 3695.9 | 3689.5 | 3683.1 | 3668.2 | 3659.7 | 3664.0 | 3659.7 | 3657.6 | 3659.7 |
| 3725.7 | 5° | 3725.7 | 3719.3 | 3702.3 | 3681.0 | 3651.2 | 3615.0 | 3591.6 | 3557.5 | 3525.6 | 3506.4 |
| 3800.2 | 7.5° | 3800.2 | 3793.8 | 3770.4 | 3710.8 | 3615.0 | 3463.9 | 3325.5 | 3204.1 | 3112.6 | 3059.3 |
| 3919.5 | 10° | 3919.5 | 3908.8 | 3872.6 | 3740.6 | 3489.4 | 3159.4 | 2884.8 | 2657.0 | 2507.9 | 2437.7 |
| 4060.0 | 12.5° | 4060.0 | 4047.2 | 3983.3 | 3712.9 | 3251.0 | 2735.7 | 2356.8 | 2103.4 | 1965.1 | 1903.3 |
| 4221.8 | 15° | 4226.0 | 4209.0 | 4083.4 | 3580.9 | 2903.9 | 2267.4 | 1920.3 | 1730.9 | 1641.4 | 1586.1 |
| 4428.3 | 17.5° | 4432.5 | 4402.7 | 4157.9 | 3383.0 | 2527.1 | 1909.7 | 1652.1 | 1509.4 | 1430.7 | 1377.5 |
| 4698.7 | 20° | 4700.8 | 4651.8 | 4217.5 | 3146.6 | 2180.1 | 1684.0 | 1471.1 | 1351.9 | 1292.3 | 1245.5 |
| 5081.9 | 22.5° | 5075.5 | 5005.2 | 4289.9 | 2891.2 | 1935.2 | 1528.6 | 1337.0 | 1249.7 | 1200.7 | 1147.5 |
| 5616.3 | 25° | 5539.6 | 5456.6 | 4379.3 | 2654.8 | 1767.1 | 1394.5 | 1239.1 | 1166.7 | 1109.2 | 1047.5 |
| 6316.7 | 27.5° | 6189.0 | 6039.9 | 4485.8 | 2461.1 | 1622.3 | 1279.5 | 1149.7 | 1068.7 | 1002.8 | 951.7 |
| 7110.8 | 30° | 6912.8 | 6668.0 | 4579.4 | 2344.0 | 1490.3 | 1173.1 | 1032.6 | 951.7 | 889.9 | 853.7 |
| 7824.0 | 32.5° | 7598.3 | 7266.2 | 4641.2 | 2292.9 | 1371.1 | 1051.7 | 904.8 | 817.5 | 770.7 | 760.0 |
| 8522.3 | 35° | 8245.6 | 7807.0 | 4634.8 | 2243.9 | 1264.6 | 930.4 | 779.2 | 689.8 | 653.6 | 660.0 |
| 9273.8 | 37.5° | 8990.7 | 8383.9 | 4590.1 | 2167.3 | 1177.3 | 819.7 | 670.6 | 591.9 | 559.9 | 562.1 |
| 10187.2 | 40° | 9857.2 | 9050.3 | 4562.4 | 2022.5 | 1081.5 | 717.5 | 581.2 | 517.3 | 493.9 | 485.4 |
| 11149.5 | 42.5° | 10781.2 | 9695.4 | 4566.7 | 1858.6 | 962.3 | 625.9 | 519.5 | 466.2 | 445.0 | 438.6 |
| 12220.4 | 45° | 11709.4 | 10310.7 | 4573.1 | 1688.3 | 836.7 | 555.7 | 474.8 | 430.1 | 417.3 | 408.8 |
| 13306.1 | 47.5° | 12582.3 | 10834.4 | 4453.8 | 1505.2 | 713.2 | 502.4 | 438.6 | 408.8 | 398.1 | 387.5 |
| 14396.2 | 50° | 13395.6 | 11183.5 | 4166.4 | 1292.3 | 615.3 | 459.9 | 410.9 | 389.6 | 379.0 | 368.3 |
| 15384.0 | 52.5° | 14027.9 | 11238.9 | 3691.7 | 1073.0 | 547.1 | 427.9 | 393.9 | 374.7 | 361.9 | 351.3 |
| 16182.4 | 55° | 14308.9 | 10891.9 | 3016.8 | 868.6 | 493.9 | 400.2 | 376.8 | 357.7 | 342.8 | 332.1 |
| 16810.4 | 57.5° | 14236.5 | 10161.6 | 2352.5 | 698.3 | 442.8 | 372.6 | 355.5 | 342.8 | 325.7 | 308.7 |
| 17319.3 | 60° | 13881.0 | 9184.4 | 1773.4 | 581.2 | 396.0 | 342.8 | 332.1 | 321.5 | 298.1 | 272.5 |
| 17515.1 | 62.5° | 13265.7 | 7956.0 | 1264.6 | 481.2 | 344.9 | 308.7 | 304.4 | 295.9 | 261.9 | 215.0 |
| 17225.6 | 65° | 12324.7 | 6463.6 | 851.6 | 400.2 | 295.9 | 270.4 | 272.5 | 257.6 | 212.9 | 159.7 |
| 16165.4 | 67.5° | 10949.4 | 4726.3 | 545.0 | 327.9 | 247.0 | 225.7 | 227.8 | 219.3 | 181.0 | 136.3 |
| 14155.6 | 70° | 9197.2 | 3129.6 | 355.5 | 249.1 | 198.0 | 174.6 | 187.4 | 189.5 | 153.3 | 110.7 |
| 10864.2 | 72.5° | 6742.5 | 1848.0 | 249.1 | 185.2 | 144.8 | 121.4 | 153.3 | 157.5 | 123.5 | 83.0 |
| 6536.0 | 75° | 3842.8 | 877.1 | 187.4 | 134.1 | 89.4 | 85.2 | 119.2 | 119.2 | 85.2 | 55.4 |
| 2829.4 | 77.5° | 1613.8 | 366.2 | 132.0 | 87.3 | 51.1 | 49.0 | 80.9 | 74.5 | 42.6 | 25.5 |
| 689.8 | 80° | 466.2 | 163.9 | 70.3 | 42.6 | 21.3 | 19.2 | 31.9 | 23.4 | 10.6 | 4.3 |
| 261.9 | 82.5° | 183.1 | 72.4 | 27.7 | 17.0 | 8.5 | 8.5 | 4.3 | 0.0 | 0.0 | 0.0 |
| 149.0 | 85° | 108.6 | 29.8 | 12.8 | 6.4 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 31.9 | 87.5° | 27.7 | 6.4 | 4.3 | 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/> |
| 3693.8 |
| 3668.2 |
| 3510.7 |
| 3061.5 |
| 2431.3 |
| 1896.9 |
| 1588.2 |
| 1373.2 |
| 1236.9 |
| 1139.0 |
| 1041.1 |
| 941.0 |
| 847.3 |
| 766.4 |
| 660.0 |
| 570.6 |
| 483.3 |
| 436.4 |
| 408.8 |
| 387.5 |
| 368.3 |
| 349.2 |
| 330.0 |
| 306.6 |
| 268.3 |
| 210.8 |
| 155.4 |
| 129.9 |
| 106.4 |
| 78.8 |
| 51.1 |
| 25.5 |
| 4.3 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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