

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: P853196

Luminaire Tested: **GLAN-SB9B-930-U-T4FT-HSS**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P853196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB9B-930-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26199 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

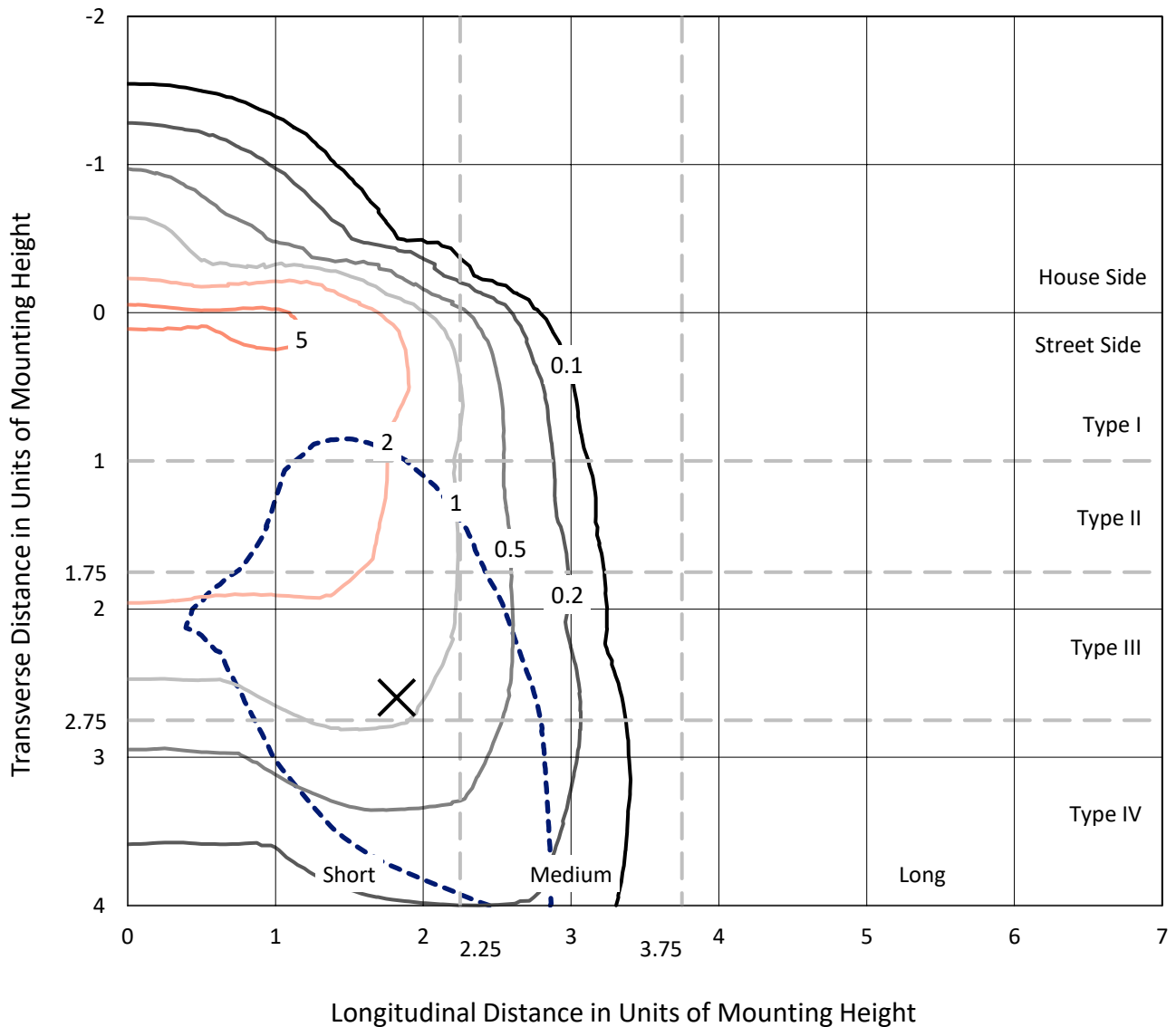
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

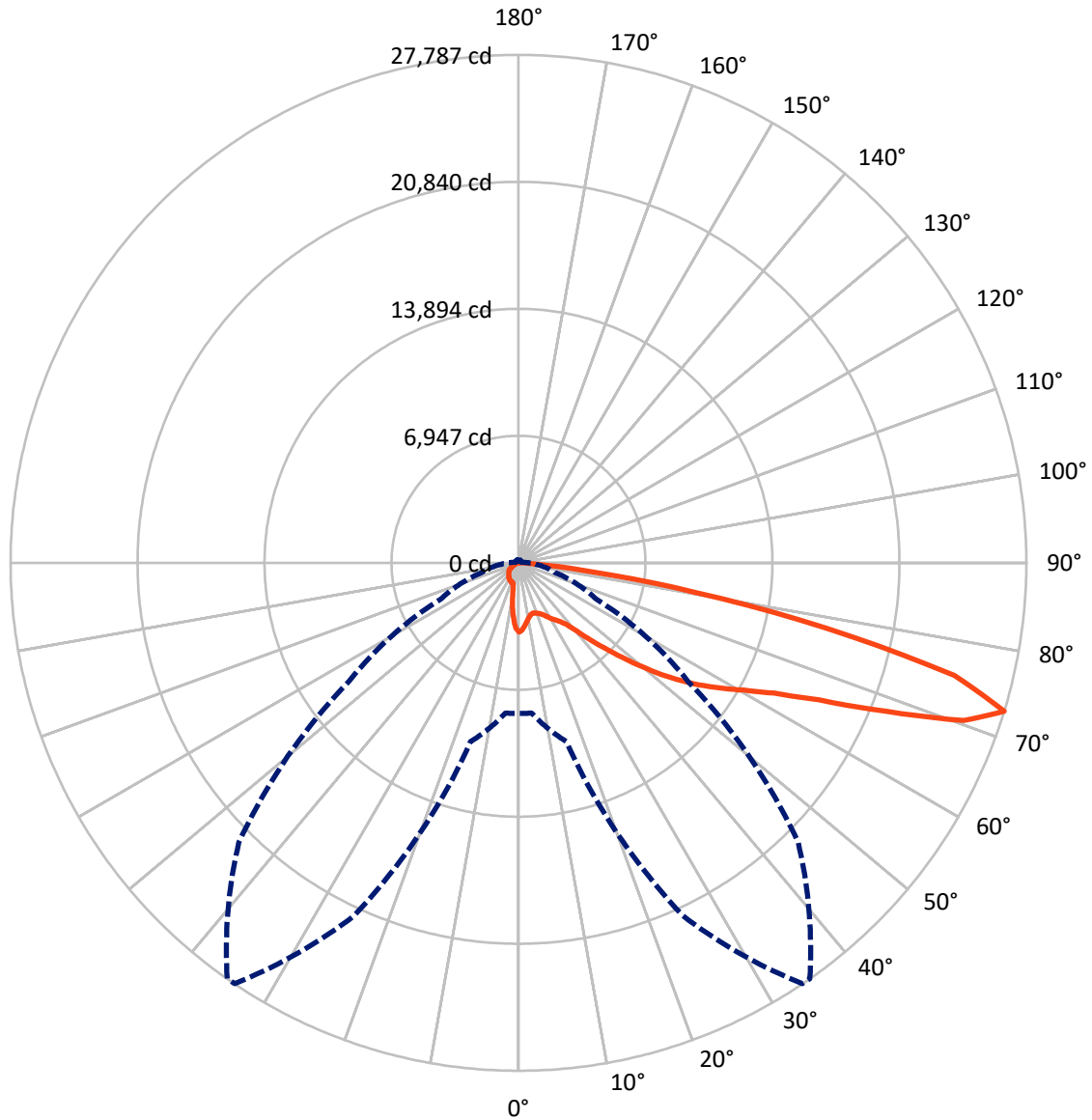
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2948.6 | 0.0 | 2948.6 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 23250.4 | 0.0 | 23250.4 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 26199.0 | 0.0 | 26199.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 312.0 | 1.2 |
| 10°-20° | 729.9 | 2.8 |
| 20°-30° | 1185.8 | 4.5 |
| 30°-40° | 1978.4 | 7.6 |
| 40°-50° | 3743.3 | 14.3 |
| 50°-60° | 5948.0 | 22.7 |
| 60°-70° | 7358.1 | 28.1 |
| 70°-80° | 4573.8 | 17.5 |
| 80°-90° | 369.6 | 1.4 |
| 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° | 26199.0 | 100.0 |
| 0°-180° | 26199.0 | 100.0 |

Coefficient of Utilization



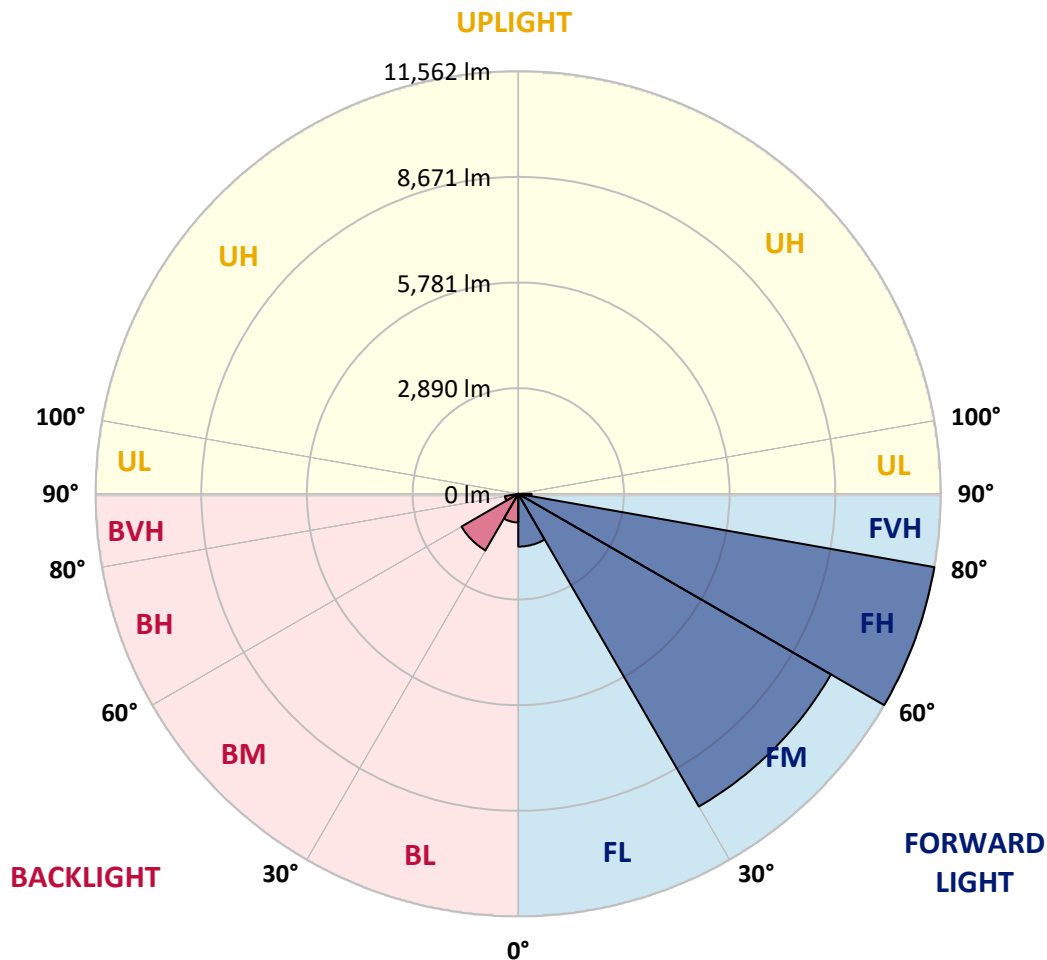
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1444.2 | 5.5 | | | |
| FM (30°-60°) | 9879.6 | 37.7 | | | |
| FH (60°-80°) | 11561.9 | 44.1 | | | G4/12000 |
| FVH (80°-90°) | 364.6 | 1.4 | | | G3/500 |
| BL (0°-30°) | 783.5 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 1790.1 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 370.0 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.0 | 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 IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3797.1 | 3797.1 | 3797.1 | 3797.1 | 3797.1 | 3797.1 | 3797.1 | 3797.1 | 3797.1 | 3797.1 |
| 2.5° | 3628.2 | 3658.9 | 3664.7 | 3674.3 | 3674.3 | 3685.8 | 3705.0 | 3731.8 | 3776.0 | 3799.0 |
| 5° | 3344.1 | 3367.1 | 3395.9 | 3418.9 | 3463.1 | 3468.8 | 3543.7 | 3616.7 | 3718.4 | 3795.2 |
| 7.5° | 3058.0 | 3084.9 | 3123.3 | 3179.0 | 3236.6 | 3253.8 | 3367.1 | 3490.0 | 3651.2 | 3795.2 |
| 10° | 2856.5 | 2858.4 | 2892.9 | 2948.6 | 3040.8 | 3061.9 | 3200.1 | 3374.8 | 3576.4 | 3772.2 |
| 12.5° | 2743.2 | 2756.7 | 2772.0 | 2814.2 | 2902.5 | 2916.0 | 3063.8 | 3269.2 | 3501.5 | 3758.7 |
| 15° | 2743.2 | 2752.8 | 2762.4 | 2783.5 | 2854.6 | 2866.1 | 2996.6 | 3202.0 | 3463.1 | 3764.5 |
| 17.5° | 2772.0 | 2787.4 | 2779.7 | 2804.6 | 2879.5 | 2887.2 | 3002.4 | 3182.8 | 3461.2 | 3801.0 |
| 20° | 2841.1 | 2852.6 | 2837.3 | 2852.6 | 2927.5 | 2942.9 | 3061.9 | 3219.3 | 3493.8 | 3864.3 |
| 22.5° | 2950.5 | 2956.3 | 2919.8 | 2931.3 | 3008.1 | 3027.3 | 3165.5 | 3323.0 | 3572.5 | 3966.0 |
| 25° | 3088.8 | 3100.3 | 3044.6 | 3058.0 | 3131.0 | 3154.0 | 3313.4 | 3478.4 | 3697.3 | 4106.2 |
| 27.5° | 3248.1 | 3253.8 | 3205.9 | 3203.9 | 3298.0 | 3330.6 | 3491.9 | 3670.4 | 3864.3 | 4282.8 |
| 30° | 3430.5 | 3447.7 | 3401.7 | 3394.0 | 3513.0 | 3539.9 | 3699.2 | 3906.5 | 4110.0 | 4547.7 |
| 32.5° | 3574.4 | 3587.9 | 3561.0 | 3580.2 | 3701.1 | 3722.2 | 3950.7 | 4240.6 | 4495.9 | 4924.0 |
| 35° | 3781.8 | 3789.4 | 3728.0 | 3762.6 | 3900.8 | 3954.5 | 4294.3 | 4709.0 | 4981.6 | 5396.2 |
| 37.5° | 4532.3 | 4532.3 | 4271.3 | 4100.4 | 4232.9 | 4280.9 | 4764.6 | 5298.3 | 5580.5 | 6029.7 |
| 40° | 5570.9 | 5553.6 | 5171.6 | 4822.2 | 4804.9 | 4899.0 | 5434.6 | 6041.2 | 6354.1 | 6789.9 |
| 42.5° | 6678.5 | 6651.7 | 6131.4 | 5785.9 | 5728.3 | 5760.9 | 6208.2 | 6956.9 | 7275.6 | 7717.1 |
| 45° | 7661.4 | 7653.7 | 7177.7 | 6713.1 | 6609.4 | 6713.1 | 7173.8 | 8028.1 | 8256.5 | 8721.1 |
| 47.5° | 8485.0 | 8485.0 | 8137.5 | 7834.2 | 7780.4 | 7841.9 | 8481.1 | 9216.4 | 9195.2 | 9790.3 |
| 50° | 9433.3 | 9425.6 | 9095.4 | 8964.9 | 9020.5 | 9106.9 | 9986.1 | 10468.0 | 10166.6 | 10840.4 |
| 52.5° | 10097.5 | 10143.6 | 10030.3 | 10009.2 | 10293.3 | 10443.0 | 11514.2 | 11692.7 | 11036.2 | 11836.7 |
| 55° | 10623.5 | 10677.2 | 10807.8 | 10955.6 | 11502.7 | 11698.5 | 12994.3 | 12854.1 | 11763.8 | 12700.6 |
| 57.5° | 11368.3 | 11291.5 | 11493.1 | 11784.9 | 12669.8 | 12906.0 | 14428.3 | 13950.3 | 12349.3 | 13401.2 |
| 60° | 12272.5 | 12284.0 | 12318.5 | 12687.1 | 13835.1 | 14138.4 | 15841.1 | 14986.9 | 12725.5 | 13831.2 |
| 62.5° | 13359.0 | 13376.3 | 13447.3 | 14013.6 | 15399.6 | 15685.6 | 17346.2 | 15835.4 | 12898.3 | 13710.3 |
| 65° | 13284.1 | 13357.1 | 14149.9 | 16086.9 | 17778.1 | 18060.3 | 19102.7 | 16430.5 | 12637.2 | 12604.6 |
| 67.5° | 12101.6 | 12220.6 | 13547.1 | 18563.2 | 21364.0 | 21678.9 | 21225.8 | 16547.6 | 11510.4 | 9801.9 |
| 70° | 10550.5 | 10592.8 | 12188.0 | 20790.1 | 25516.3 | 25835.0 | 23126.3 | 15259.5 | 8734.5 | 5467.2 |
| 72.5° | 8239.2 | 8248.8 | 10120.5 | 21306.5 | 27770.0 | 27787.3 | 21634.7 | 11328.0 | 4697.4 | 2100.1 |
| 75° | 5885.7 | 5828.1 | 6778.4 | 17279.0 | 24431.7 | 24627.5 | 16219.3 | 5313.7 | 1794.9 | 992.5 |
| 77.5° | 3155.9 | 3219.3 | 3835.5 | 10247.2 | 16877.8 | 17211.8 | 8849.7 | 1531.9 | 913.8 | 675.7 |
| 80° | 975.2 | 1028.9 | 1572.2 | 4691.7 | 9560.0 | 9761.5 | 3280.7 | 681.5 | 637.3 | 481.8 |
| 82.5° | 307.1 | 318.7 | 733.3 | 1971.5 | 3968.0 | 4060.1 | 950.2 | 385.9 | 435.8 | 318.7 |
| 85° | 88.3 | 90.2 | 326.3 | 735.2 | 981.0 | 1000.1 | 266.8 | 149.7 | 249.6 | 197.7 |
| 87.5° | 9.6 | 30.7 | 122.9 | 122.9 | 86.4 | 84.5 | 28.8 | 32.6 | 71.0 | 25.0 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3797.1 | 0° | 3797.1 | 3797.1 | 3797.1 | 3797.1 | 3797.1 | 3797.1 | 3797.1 | 3797.1 | 3797.1 | 3797.1 |
| 3814.4 | 2.5° | 3804.8 | 3806.7 | 3781.8 | 3739.5 | 3693.5 | 3655.1 | 3607.1 | 3568.7 | 3541.8 | 3534.1 |
| 3848.9 | 5° | 3831.7 | 3818.2 | 3747.2 | 3618.6 | 3465.0 | 3332.6 | 3184.7 | 3067.6 | 2990.9 | 2958.2 |
| 3885.4 | 7.5° | 3872.0 | 3833.6 | 3678.1 | 3424.7 | 3131.0 | 2869.9 | 2605.0 | 2399.6 | 2269.1 | 2203.8 |
| 3920.0 | 10° | 3906.5 | 3829.7 | 3562.9 | 3144.4 | 2695.2 | 2299.8 | 1942.7 | 1695.1 | 1556.9 | 1491.6 |
| 3960.3 | 12.5° | 3939.2 | 3827.8 | 3413.2 | 2812.3 | 2203.8 | 1720.0 | 1387.9 | 1265.1 | 1226.7 | 1213.2 |
| 4025.6 | 15° | 4000.6 | 3833.6 | 3225.1 | 2432.2 | 1714.3 | 1299.6 | 1178.7 | 1176.8 | 1184.4 | 1180.6 |
| 4125.4 | 17.5° | 4085.1 | 3839.3 | 3012.0 | 2029.1 | 1322.7 | 1146.0 | 1140.3 | 1157.6 | 1169.1 | 1163.3 |
| 4250.2 | 20° | 4194.5 | 3862.4 | 2785.4 | 1629.8 | 1136.4 | 1107.7 | 1121.1 | 1136.4 | 1146.0 | 1136.4 |
| 4417.2 | 22.5° | 4348.1 | 3902.7 | 2537.8 | 1309.2 | 1076.9 | 1084.6 | 1096.1 | 1113.4 | 1123.0 | 1109.6 |
| 4630.3 | 25° | 4536.2 | 3966.0 | 2294.0 | 1138.4 | 1048.1 | 1057.7 | 1075.0 | 1094.2 | 1105.7 | 1092.3 |
| 4899.0 | 27.5° | 4780.0 | 4067.8 | 2069.4 | 1100.0 | 1019.3 | 1025.1 | 1050.1 | 1078.9 | 1094.2 | 1076.9 |
| 5281.0 | 30° | 5133.2 | 4234.8 | 1875.5 | 1117.2 | 1002.1 | 988.6 | 1023.2 | 1063.5 | 1080.8 | 1065.4 |
| 5801.3 | 32.5° | 5601.6 | 4470.9 | 1756.5 | 1144.1 | 994.4 | 946.4 | 979.0 | 1030.9 | 1059.7 | 1050.1 |
| 6480.8 | 35° | 6215.9 | 4829.9 | 1710.4 | 1174.8 | 988.6 | 902.2 | 925.3 | 981.0 | 1030.9 | 1040.5 |
| 7337.0 | 37.5° | 6960.7 | 5329.0 | 1723.9 | 1188.3 | 971.4 | 865.8 | 877.3 | 925.3 | 990.6 | 1021.3 |
| 8300.7 | 40° | 7807.3 | 5910.7 | 1800.7 | 1174.8 | 952.2 | 835.1 | 837.0 | 873.5 | 931.0 | 977.1 |
| 9337.3 | 42.5° | 8680.8 | 6590.2 | 1942.7 | 1124.9 | 934.9 | 808.2 | 802.4 | 827.4 | 865.8 | 898.4 |
| 10372.0 | 45° | 9512.0 | 7289.0 | 2082.8 | 1055.8 | 913.8 | 781.3 | 767.9 | 777.5 | 785.1 | 798.6 |
| 11379.8 | 47.5° | 10237.6 | 7780.4 | 2042.5 | 992.5 | 885.0 | 750.6 | 727.6 | 723.7 | 700.7 | 698.8 |
| 12280.1 | 50° | 10738.7 | 7887.9 | 1814.1 | 929.1 | 842.7 | 716.0 | 679.6 | 656.5 | 616.2 | 597.0 |
| 12954.0 | 52.5° | 10898.0 | 7463.7 | 1482.0 | 865.8 | 773.6 | 670.0 | 618.1 | 581.7 | 531.7 | 514.5 |
| 13341.7 | 55° | 10686.8 | 6632.5 | 1184.4 | 789.0 | 677.6 | 608.5 | 550.9 | 503.0 | 462.6 | 441.5 |
| 13384.0 | 57.5° | 10170.4 | 5574.7 | 936.8 | 698.8 | 575.9 | 539.4 | 481.8 | 433.8 | 399.3 | 378.2 |
| 12915.6 | 60° | 9314.3 | 4426.8 | 741.0 | 591.3 | 491.4 | 464.6 | 405.1 | 374.3 | 343.6 | 318.7 |
| 11706.2 | 62.5° | 8014.6 | 3159.8 | 581.7 | 468.4 | 410.8 | 380.1 | 345.5 | 322.5 | 286.0 | 251.5 |
| 9531.2 | 65° | 6254.3 | 1933.1 | 449.2 | 343.6 | 330.2 | 314.8 | 293.7 | 272.6 | 228.4 | 193.9 |
| 6217.8 | 67.5° | 3944.9 | 915.7 | 320.6 | 259.2 | 261.1 | 253.4 | 243.8 | 226.5 | 193.9 | 163.2 |
| 2785.4 | 70° | 1737.3 | 443.4 | 211.2 | 197.7 | 193.9 | 193.9 | 201.6 | 195.8 | 165.1 | 136.3 |
| 967.5 | 72.5° | 591.3 | 238.0 | 157.4 | 149.7 | 140.1 | 138.2 | 168.9 | 163.2 | 132.5 | 105.6 |
| 481.8 | 75° | 309.1 | 159.3 | 115.2 | 107.5 | 84.5 | 101.7 | 134.4 | 126.7 | 94.1 | 69.1 |
| 318.7 | 77.5° | 201.6 | 113.3 | 78.7 | 69.1 | 48.0 | 67.2 | 99.8 | 88.3 | 55.7 | 34.6 |
| 209.2 | 80° | 126.7 | 74.9 | 46.1 | 32.6 | 23.0 | 36.5 | 53.8 | 38.4 | 21.1 | 7.7 |
| 122.9 | 82.5° | 67.2 | 38.4 | 17.3 | 11.5 | 9.6 | 11.5 | 13.4 | 9.6 | 3.8 | 0.0 |
| 63.3 | 85° | 26.9 | 13.4 | 5.8 | 3.8 | 1.9 | 0.0 | 3.8 | 1.9 | 0.0 | 0.0 |
| 11.5 | 87.5° | 9.6 | 1.9 | 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° |
|--------|
| 3797.1 |
| 3547.6 |
| 2969.7 |
| 2213.4 |
| 1493.5 |
| 1209.4 |
| 1178.7 |
| 1161.4 |
| 1134.5 |
| 1107.7 |
| 1090.4 |
| 1076.9 |
| 1063.5 |
| 1050.1 |
| 1040.5 |
| 1028.9 |
| 992.5 |
| 911.8 |
| 806.3 |
| 696.8 |
| 598.9 |
| 512.6 |
| 441.5 |
| 374.3 |
| 312.9 |
| 245.7 |
| 188.1 |
| 159.3 |
| 130.5 |
| 99.8 |
| 63.3 |
| 30.7 |
| 5.8 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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