

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: P851747

Luminaire Tested: **GLAN-SB9D-840-U-T3-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P851747
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-SB9D-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 4000K, 900mA 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: 64646 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

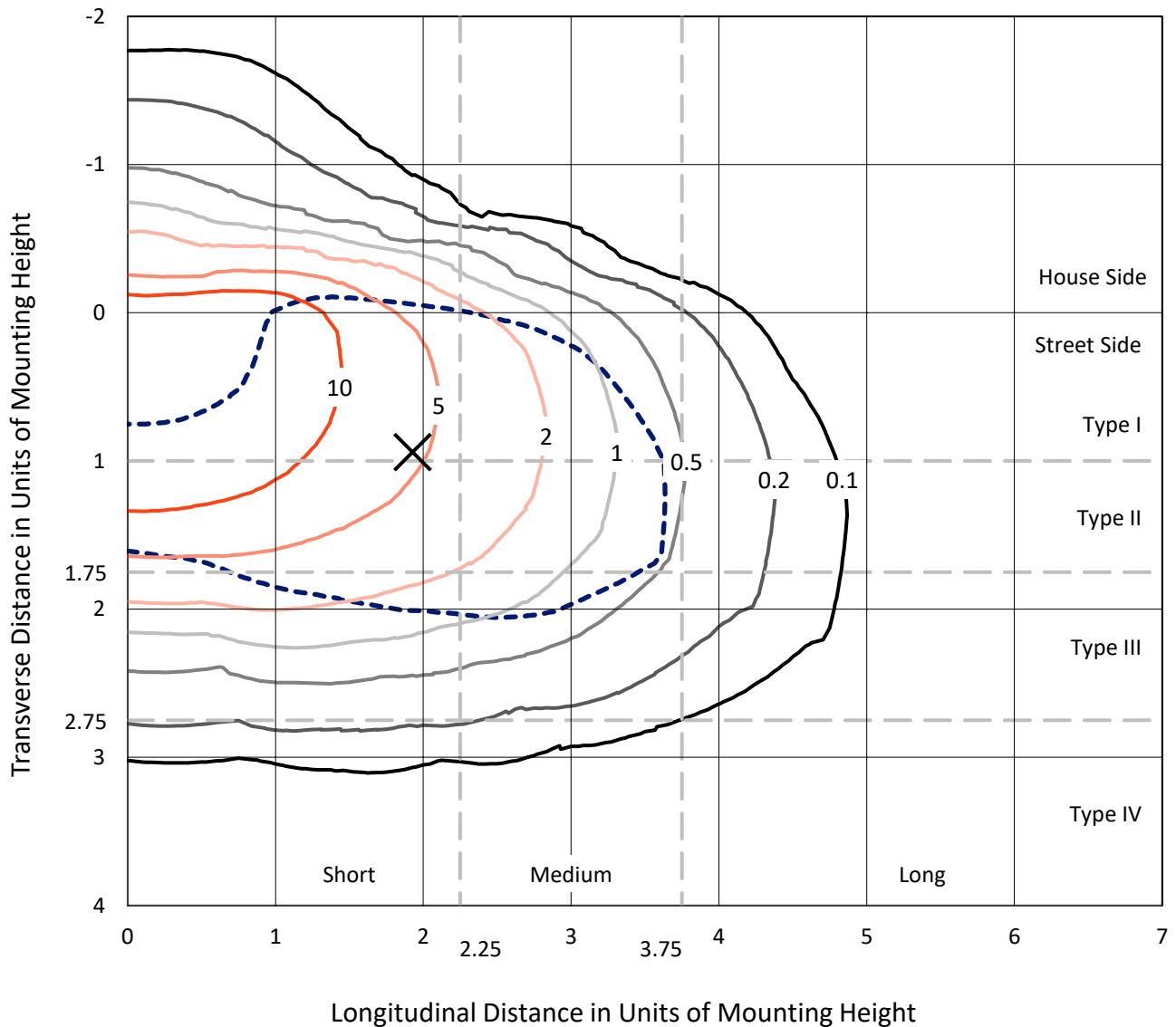
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

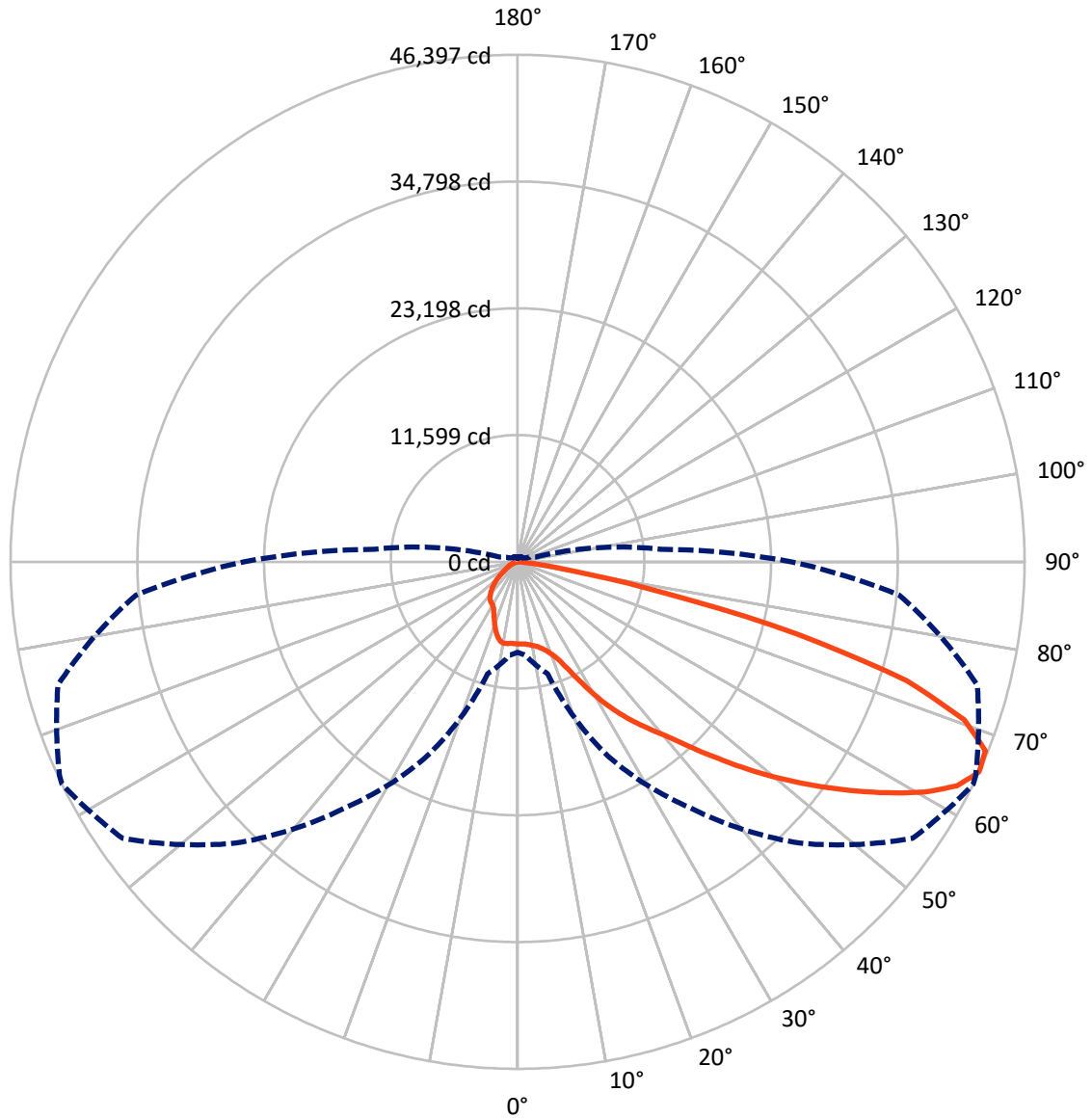
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 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 | 8645.1 | 0.0 | 8645.1 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 56000.9 | 0.0 | 56000.9 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 64646.0 | 0.0 | 64646.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 693.7 | 1.1 |
| 10°-20° | 1881.5 | 2.9 |
| 20°-30° | 3565.3 | 5.5 |
| 30°-40° | 7214.5 | 11.2 |
| 40°-50° | 12290.0 | 19.0 |
| 50°-60° | 16713.5 | 25.9 |
| 60°-70° | 15694.8 | 24.3 |
| 70°-80° | 6288.0 | 9.7 |
| 80°-90° | 304.6 | 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° | 64646.0 | 100.0 |
| 0°-180° | 64646.0 | 100.0 |

Coefficient of Utilization

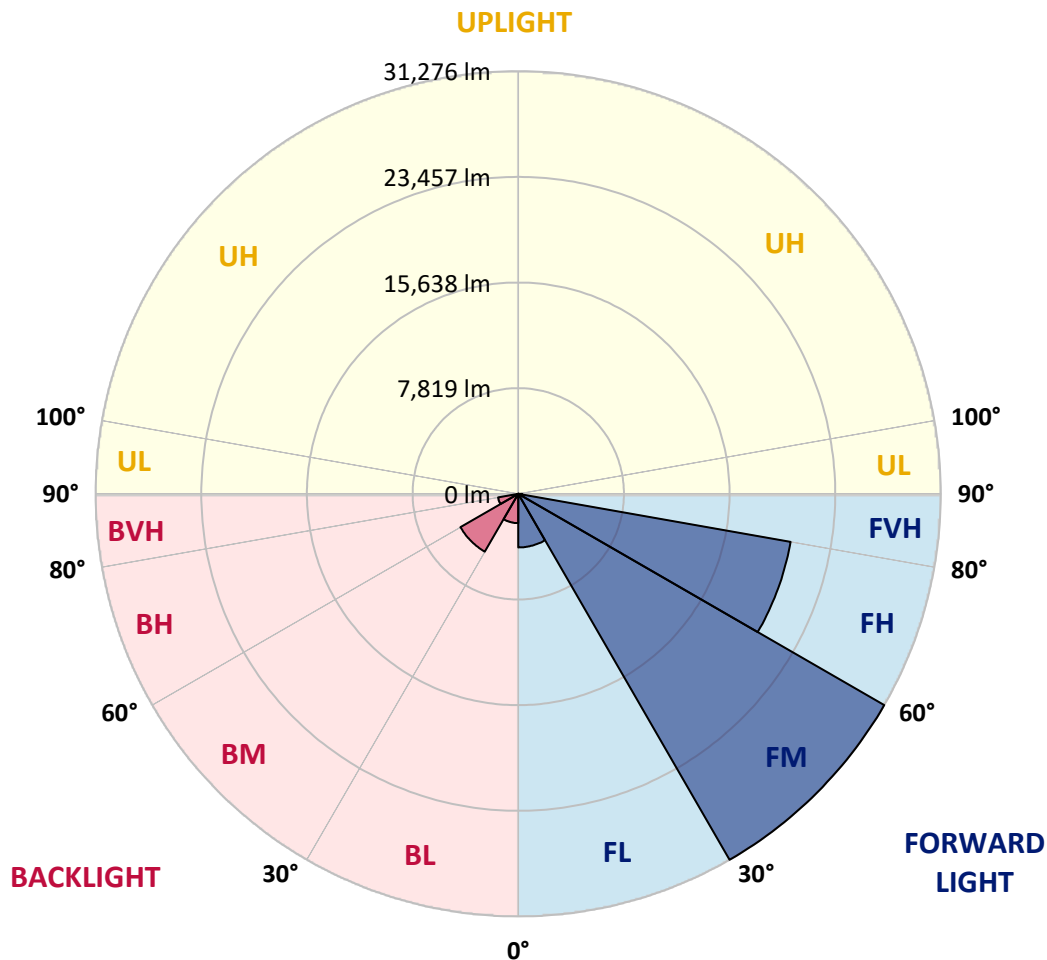


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3970.0 | 6.1 | | | |
| FM (30°-60°) | 31275.7 | 48.4 | | | |
| FH (60°-80°) | 20465.4 | 31.7 | | | G5 |
| FVH (80°-90°) | 289.8 | 0.4 | | | G3/500 |
| BL (0°-30°) | 2170.5 | 3.4 | B3/2500 | | |
| BM (30°-60°) | 4942.4 | 7.6 | B3/5000 | | |
| BH (60°-80°) | 1517.4 | 2.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 14.9 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7519.0 | 7519.0 | 7519.0 | 7519.0 | 7519.0 | 7519.0 | 7519.0 | 7519.0 | 7519.0 | 7519.0 |
| 2.5° | 7493.0 | 7545.0 | 7532.0 | 7519.0 | 7514.7 | 7523.3 | 7527.7 | 7523.3 | 7523.3 | 7523.3 |
| 5° | 7350.0 | 7393.3 | 7393.3 | 7423.7 | 7467.0 | 7519.0 | 7558.0 | 7566.7 | 7575.3 | 7588.3 |
| 7.5° | 7077.0 | 7111.6 | 7137.6 | 7237.3 | 7345.7 | 7484.3 | 7601.3 | 7662.0 | 7670.7 | 7718.4 |
| 10° | 6890.6 | 6933.9 | 6977.3 | 7081.3 | 7237.3 | 7445.3 | 7644.7 | 7792.0 | 7813.7 | 7926.4 |
| 12.5° | 6881.9 | 6925.3 | 6981.6 | 7094.3 | 7276.3 | 7497.3 | 7740.0 | 7952.4 | 7991.4 | 8156.1 |
| 15° | 6973.0 | 7025.0 | 7077.0 | 7215.6 | 7410.7 | 7679.3 | 7939.4 | 8203.7 | 8242.7 | 8476.8 |
| 17.5° | 7159.3 | 7228.6 | 7267.6 | 7406.3 | 7614.3 | 7913.4 | 8255.7 | 8559.1 | 8593.8 | 8866.8 |
| 20° | 7527.7 | 7610.0 | 7623.0 | 7735.7 | 7939.4 | 8260.1 | 8667.4 | 9044.5 | 9087.8 | 9399.8 |
| 22.5° | 8290.4 | 8407.4 | 8303.4 | 8359.7 | 8541.8 | 8862.5 | 9304.5 | 9781.2 | 9841.9 | 10197.2 |
| 25° | 9633.9 | 9798.5 | 9529.8 | 9434.5 | 9512.5 | 9846.2 | 10400.9 | 11003.3 | 11072.6 | 11358.7 |
| 27.5° | 12273.1 | 12060.7 | 11653.4 | 11254.7 | 11020.6 | 11211.3 | 11835.4 | 12580.8 | 12667.5 | 12944.8 |
| 30° | 15172.3 | 14986.0 | 14435.6 | 13551.5 | 12996.8 | 12966.5 | 13542.9 | 14374.9 | 14474.6 | 14739.0 |
| 32.5° | 18075.9 | 17898.3 | 17300.2 | 16212.4 | 15250.4 | 14773.6 | 15172.3 | 16095.4 | 16147.4 | 16316.4 |
| 35° | 20931.9 | 20749.8 | 20151.8 | 19038.0 | 17854.9 | 16771.5 | 16693.5 | 17733.6 | 17750.9 | 17928.6 |
| 37.5° | 23805.1 | 23653.4 | 23016.4 | 21924.3 | 20758.5 | 19263.4 | 18539.6 | 19285.0 | 19306.7 | 19480.1 |
| 40° | 25855.0 | 25920.0 | 25482.3 | 24637.2 | 23636.1 | 22002.3 | 20611.2 | 20936.2 | 20806.2 | 21096.5 |
| 42.5° | 27614.5 | 27744.5 | 27363.1 | 26938.4 | 26357.7 | 24918.9 | 23176.7 | 23120.4 | 22912.4 | 23068.4 |
| 45° | 29135.6 | 29243.9 | 28901.6 | 28801.9 | 28788.9 | 27779.1 | 25980.6 | 25642.6 | 25352.3 | 25321.9 |
| 47.5° | 29694.6 | 29902.7 | 30050.0 | 30383.7 | 31033.8 | 30609.1 | 28879.9 | 28355.5 | 28030.5 | 27792.1 |
| 50° | 29907.0 | 30128.0 | 30630.7 | 31601.5 | 33139.9 | 33322.0 | 31766.2 | 31176.8 | 30778.1 | 30344.7 |
| 52.5° | 29621.0 | 30015.3 | 30691.4 | 32325.2 | 34557.1 | 35497.5 | 34535.4 | 34019.7 | 33564.6 | 32858.3 |
| 55° | 27935.1 | 28329.5 | 29712.0 | 32316.5 | 35263.5 | 37023.0 | 37153.0 | 36923.3 | 36411.9 | 35298.1 |
| 57.5° | 24381.5 | 24966.6 | 27155.1 | 31215.8 | 35250.5 | 38336.1 | 39718.5 | 39883.2 | 39311.2 | 37716.3 |
| 60° | 19458.4 | 20251.5 | 22921.0 | 28775.9 | 34162.7 | 39046.8 | 41967.7 | 42791.1 | 42184.4 | 40099.9 |
| 62.5° | 13577.5 | 14496.3 | 17022.8 | 24953.5 | 31675.1 | 38535.4 | 43610.2 | 45131.3 | 44672.0 | 42232.1 |
| 65° | 8281.7 | 8576.4 | 10613.3 | 19636.1 | 27445.4 | 36394.6 | 44117.3 | 46396.8 | 46245.1 | 43536.5 |
| 67.5° | 5516.8 | 5763.8 | 6348.9 | 13464.9 | 21304.6 | 32117.2 | 42903.8 | 46175.8 | 46219.1 | 43324.2 |
| 70° | 3324.0 | 3536.3 | 3917.7 | 7831.0 | 13807.2 | 25421.6 | 39146.5 | 43358.9 | 43610.2 | 40485.6 |
| 72.5° | 1369.5 | 1512.5 | 1859.2 | 3549.3 | 7150.6 | 16134.4 | 31172.4 | 37226.6 | 37811.7 | 34041.4 |
| 75° | 775.7 | 849.4 | 1092.1 | 1781.2 | 3102.9 | 7519.0 | 18882.0 | 26427.0 | 27289.4 | 23462.8 |
| 77.5° | 515.7 | 550.4 | 706.4 | 1152.8 | 1746.5 | 2565.6 | 8069.4 | 13768.2 | 15415.0 | 12814.8 |
| 80° | 346.7 | 377.0 | 485.4 | 771.4 | 1135.4 | 1100.8 | 2569.9 | 5100.8 | 6275.2 | 4403.1 |
| 82.5° | 234.0 | 238.4 | 346.7 | 507.0 | 719.4 | 533.0 | 758.4 | 1586.1 | 1993.5 | 1274.1 |
| 85° | 134.3 | 130.0 | 255.7 | 294.7 | 320.7 | 221.0 | 229.7 | 476.7 | 624.1 | 537.4 |
| 87.5° | 17.3 | 26.0 | 99.7 | 78.0 | 43.3 | 47.7 | 47.7 | 82.3 | 121.3 | 130.0 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7519.0 | 0° | 7519.0 | 7519.0 | 7519.0 | 7519.0 | 7519.0 | 7519.0 | 7519.0 | 7519.0 | 7519.0 | 7519.0 |
| 7527.7 | 2.5° | 7527.7 | 7523.3 | 7510.3 | 7497.3 | 7467.0 | 7449.7 | 7458.3 | 7449.7 | 7445.3 | 7449.7 |
| 7584.0 | 5° | 7584.0 | 7571.0 | 7536.3 | 7493.0 | 7432.3 | 7358.7 | 7311.0 | 7241.6 | 7176.6 | 7137.6 |
| 7735.7 | 7.5° | 7735.7 | 7722.7 | 7675.0 | 7553.7 | 7358.7 | 7051.0 | 6769.3 | 6522.2 | 6335.9 | 6227.6 |
| 7978.4 | 10° | 7978.4 | 7956.7 | 7883.0 | 7614.3 | 7103.0 | 6431.2 | 5872.2 | 5408.5 | 5105.1 | 4962.1 |
| 8264.4 | 12.5° | 8264.4 | 8238.4 | 8108.4 | 7558.0 | 6617.6 | 5568.8 | 4797.4 | 4281.7 | 4000.0 | 3874.3 |
| 8593.8 | 15° | 8602.4 | 8567.8 | 8312.1 | 7289.3 | 5911.2 | 4615.4 | 3909.0 | 3523.3 | 3341.3 | 3228.6 |
| 9014.1 | 17.5° | 9022.8 | 8962.1 | 8463.8 | 6886.3 | 5144.1 | 3887.3 | 3363.0 | 3072.6 | 2912.3 | 2803.9 |
| 9564.5 | 20° | 9568.8 | 9469.2 | 8585.1 | 6405.2 | 4437.7 | 3428.0 | 2994.6 | 2751.9 | 2630.6 | 2535.2 |
| 10344.6 | 22.5° | 10331.6 | 10188.6 | 8732.4 | 5885.2 | 3939.3 | 3111.6 | 2721.6 | 2543.9 | 2444.2 | 2335.9 |
| 11432.3 | 25° | 11276.3 | 11107.3 | 8914.5 | 5404.1 | 3597.0 | 2838.6 | 2522.2 | 2374.9 | 2257.9 | 2132.2 |
| 12858.1 | 27.5° | 12598.1 | 12294.8 | 9131.1 | 5009.8 | 3302.3 | 2604.6 | 2340.2 | 2175.5 | 2041.2 | 1937.2 |
| 14474.6 | 30° | 14071.6 | 13573.2 | 9321.8 | 4771.4 | 3033.6 | 2387.9 | 2101.9 | 1937.2 | 1811.5 | 1737.8 |
| 15926.4 | 32.5° | 15467.0 | 14791.0 | 9447.5 | 4667.4 | 2790.9 | 2140.9 | 1841.8 | 1664.1 | 1568.8 | 1547.1 |
| 17347.9 | 35° | 16784.5 | 15891.7 | 9434.5 | 4567.7 | 2574.2 | 1893.8 | 1586.1 | 1404.1 | 1330.5 | 1343.5 |
| 18877.7 | 37.5° | 18301.3 | 17066.2 | 9343.5 | 4411.7 | 2396.5 | 1668.5 | 1365.1 | 1204.8 | 1139.8 | 1144.1 |
| 20736.8 | 40° | 20065.1 | 18422.6 | 9287.2 | 4117.0 | 2201.5 | 1460.5 | 1183.1 | 1053.1 | 1005.4 | 988.1 |
| 22695.7 | 42.5° | 21945.9 | 19735.8 | 9295.8 | 3783.3 | 1958.8 | 1274.1 | 1057.4 | 949.1 | 905.7 | 892.7 |
| 24875.5 | 45° | 23835.5 | 20988.2 | 9308.8 | 3436.6 | 1703.2 | 1131.1 | 966.4 | 875.4 | 849.4 | 832.1 |
| 27085.7 | 47.5° | 25612.3 | 22054.3 | 9066.1 | 3063.9 | 1451.8 | 1022.8 | 892.7 | 832.1 | 810.4 | 788.7 |
| 29304.6 | 50° | 27267.8 | 22765.0 | 8481.1 | 2630.6 | 1252.4 | 936.1 | 836.4 | 793.1 | 771.4 | 749.7 |
| 31315.4 | 52.5° | 28554.9 | 22877.7 | 7514.7 | 2184.2 | 1113.8 | 871.1 | 801.7 | 762.7 | 736.7 | 715.1 |
| 32940.6 | 55° | 29126.9 | 22171.3 | 6140.9 | 1768.2 | 1005.4 | 814.7 | 767.1 | 728.1 | 697.7 | 676.1 |
| 34219.0 | 57.5° | 28979.6 | 20684.8 | 4788.8 | 1421.5 | 901.4 | 758.4 | 723.7 | 697.7 | 663.1 | 628.4 |
| 35254.8 | 60° | 28255.8 | 18695.7 | 3610.0 | 1183.1 | 806.1 | 697.7 | 676.1 | 654.4 | 606.7 | 554.7 |
| 35653.5 | 62.5° | 27003.4 | 16195.1 | 2574.2 | 979.4 | 702.1 | 628.4 | 619.7 | 602.4 | 533.0 | 437.7 |
| 35064.1 | 65° | 25087.9 | 13157.2 | 1733.5 | 814.7 | 602.4 | 550.4 | 554.7 | 524.4 | 433.4 | 325.0 |
| 32905.9 | 67.5° | 22288.3 | 9620.9 | 1109.4 | 667.4 | 502.7 | 459.4 | 463.7 | 446.4 | 368.4 | 277.4 |
| 28814.9 | 70° | 18721.7 | 6370.6 | 723.7 | 507.0 | 403.0 | 355.4 | 381.4 | 385.7 | 312.0 | 225.4 |
| 22115.0 | 72.5° | 13724.9 | 3761.7 | 507.0 | 377.0 | 294.7 | 247.0 | 312.0 | 320.7 | 251.4 | 169.0 |
| 13304.5 | 75° | 7822.4 | 1785.5 | 381.4 | 273.0 | 182.0 | 173.3 | 242.7 | 242.7 | 173.3 | 112.7 |
| 5759.5 | 77.5° | 3285.0 | 745.4 | 268.7 | 177.7 | 104.0 | 99.7 | 164.7 | 151.7 | 86.7 | 52.0 |
| 1404.1 | 80° | 949.1 | 333.7 | 143.0 | 86.7 | 43.3 | 39.0 | 65.0 | 47.7 | 21.7 | 8.7 |
| 533.0 | 82.5° | 372.7 | 147.3 | 56.3 | 34.7 | 17.3 | 17.3 | 8.7 | 0.0 | 0.0 | 0.0 |
| 303.4 | 85° | 221.0 | 60.7 | 26.0 | 13.0 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65.0 | 87.5° | 56.3 | 13.0 | 8.7 | 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° |
|--------|
| 7519.0 |
| 7467.0 |
| 7146.3 |
| 6231.9 |
| 4949.1 |
| 3861.3 |
| 3233.0 |
| 2795.2 |
| 2517.9 |
| 2318.5 |
| 2119.2 |
| 1915.5 |
| 1724.8 |
| 1560.1 |
| 1343.5 |
| 1161.4 |
| 983.8 |
| 888.4 |
| 832.1 |
| 788.7 |
| 749.7 |
| 710.7 |
| 671.7 |
| 624.1 |
| 546.0 |
| 429.0 |
| 316.4 |
| 264.4 |
| 216.7 |
| 160.3 |
| 104.0 |
| 52.0 |
| 8.7 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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