

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: P951112

Luminaire Tested: **GLAN-SB5B-840-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB5B-840-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27671 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

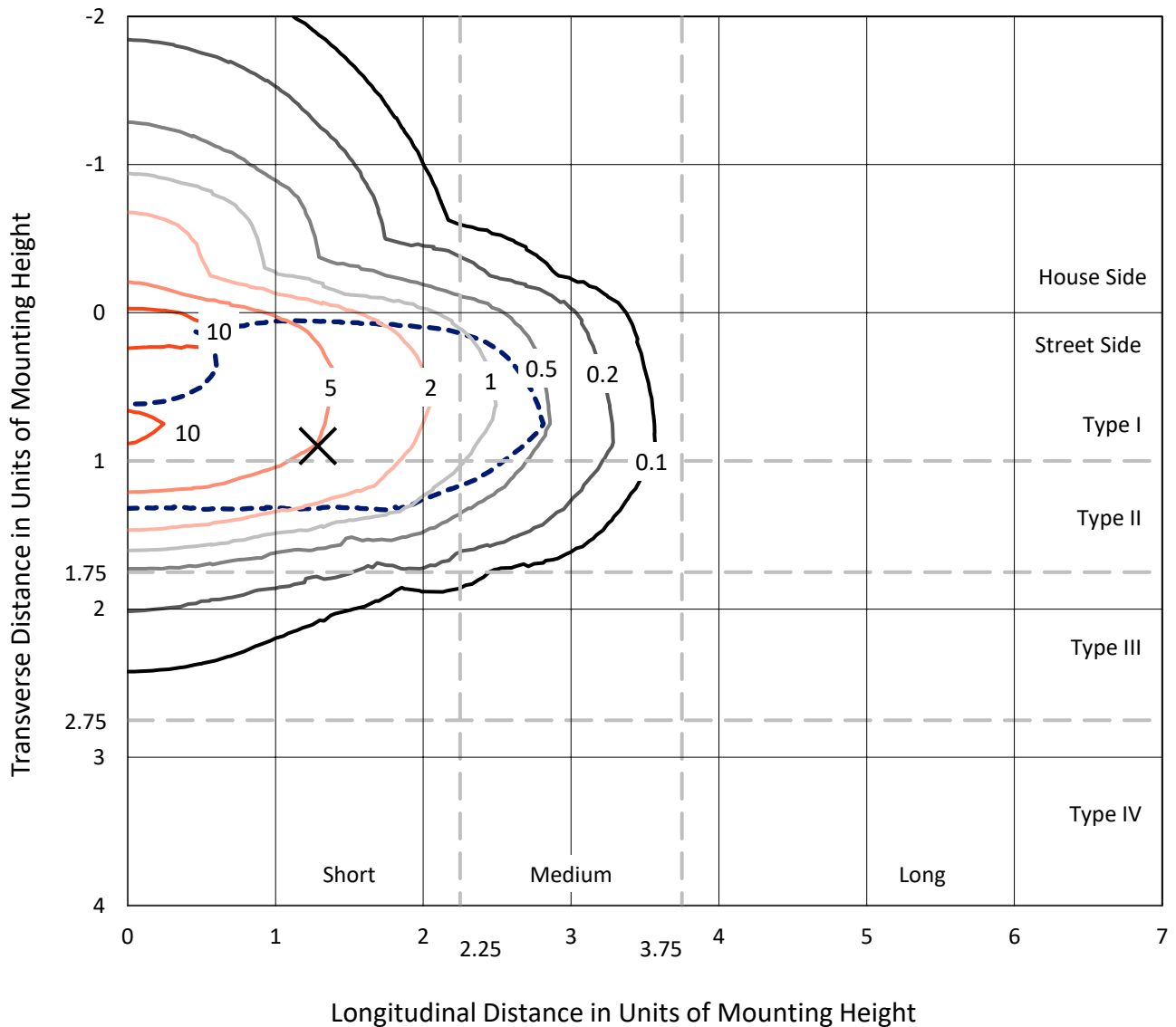
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

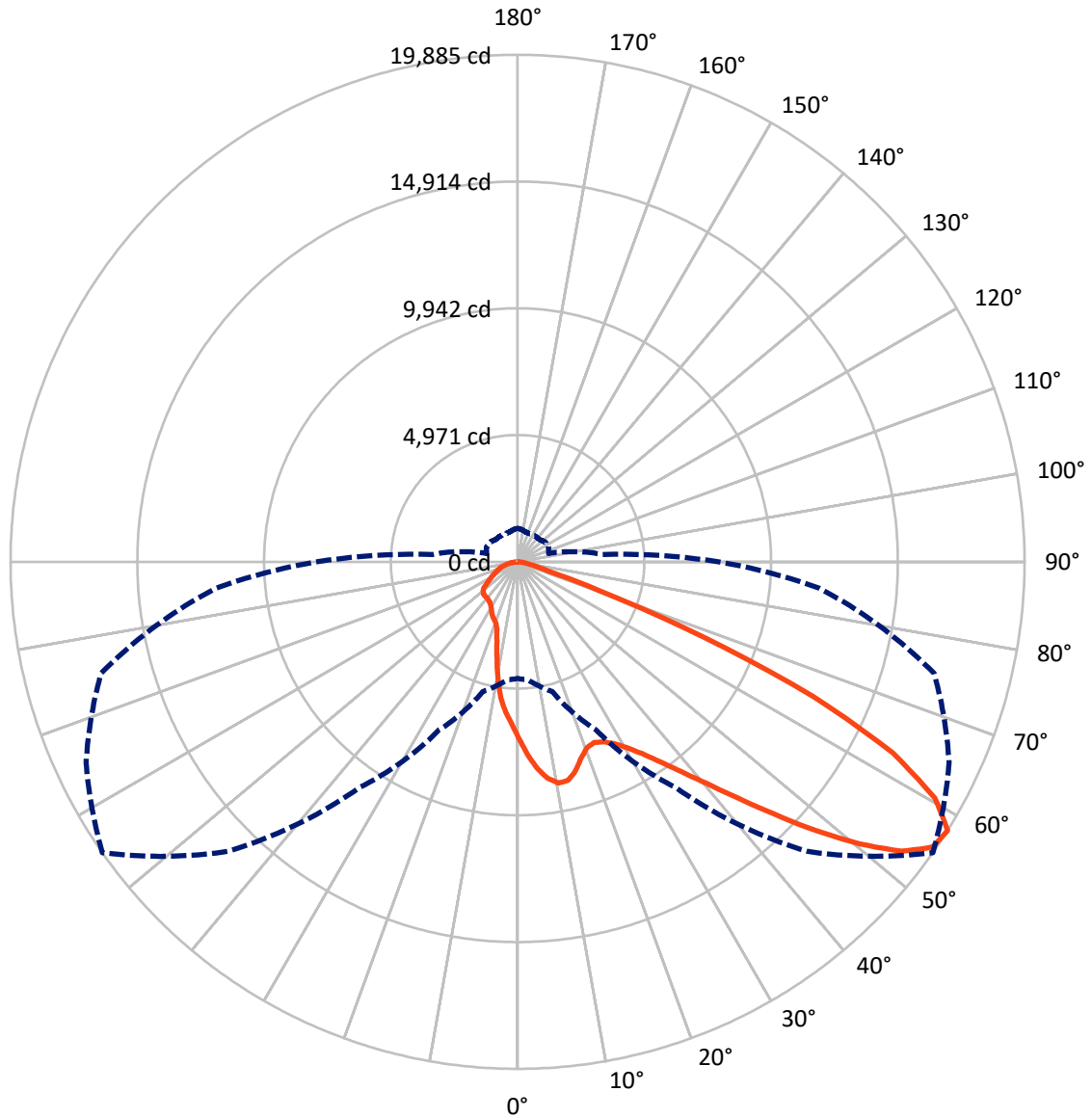
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5006.9 | 0.0 | 5006.9 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 22664.1 | 0.0 | 22664.1 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 27671.0 | 0.0 | 27671.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 643.4 | 2.3 |
| 10°-20° | 1623.9 | 5.9 |
| 20°-30° | 2591.3 | 9.4 |
| 30°-40° | 4102.7 | 14.8 |
| 40°-50° | 6279.6 | 22.7 |
| 50°-60° | 6726.1 | 24.3 |
| 60°-70° | 4231.4 | 15.3 |
| 70°-80° | 1251.3 | 4.5 |
| 80°-90° | 221.2 | 0.8 |
| 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° | 27671.0 | 100.0 |
| 0°-180° | 27671.0 | 100.0 |

Coefficient of Utilization



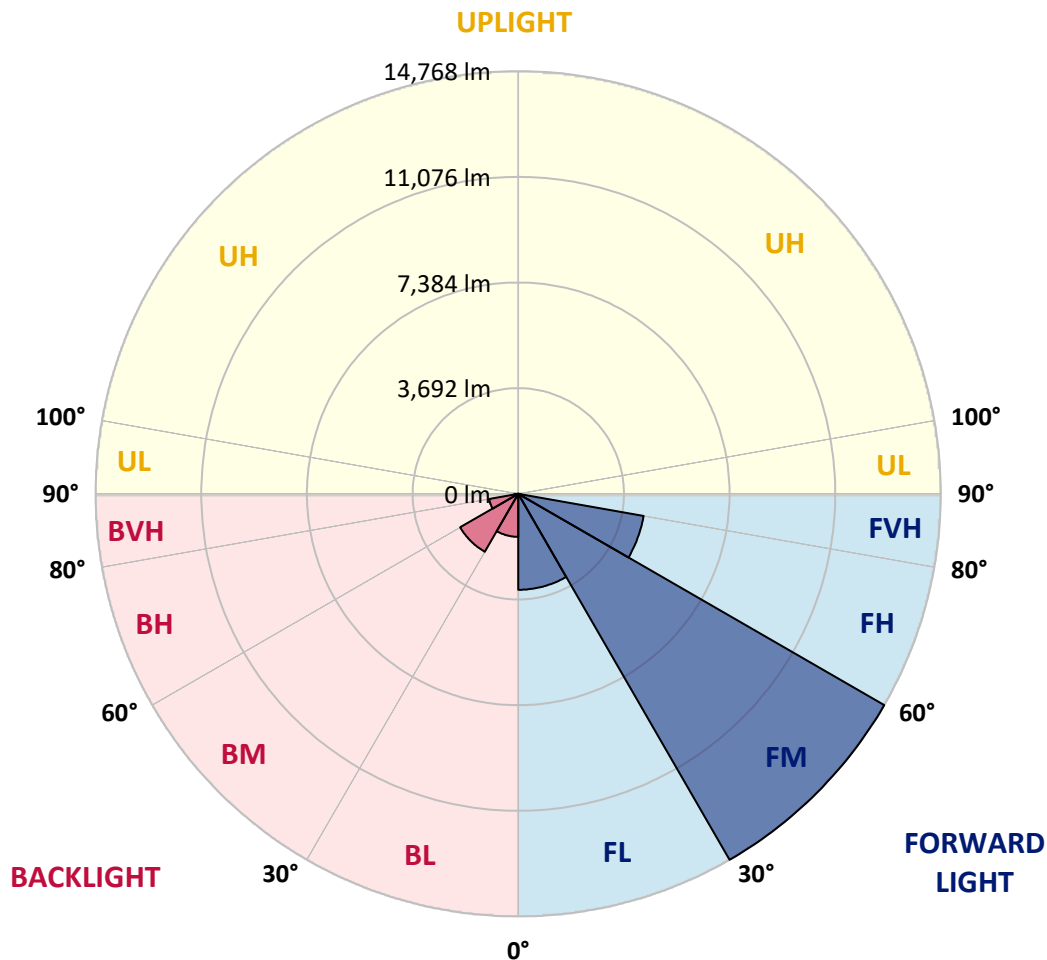
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3353.7 | 12.1 | | | |
| FM (30°-60°) | 14768.2 | 53.4 | | | |
| FH (60°-80°) | 4448.7 | 16.1 | | | G2/5000 |
| FVH (80°-90°) | 93.5 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1504.9 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 2340.2 | 8.5 | B2/2500 | | |
| BH (60°-80°) | 1034.1 | 3.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 127.8 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6933.5 | 6933.5 | 6933.5 | 6933.5 | 6933.5 | 6933.5 | 6933.5 | 6933.5 | 6933.5 | 6933.5 |
| 2.5° | 7954.8 | 7949.1 | 7980.6 | 7873.3 | 7800.3 | 7701.6 | 7571.4 | 7405.5 | 7226.7 | 7037.9 |
| 5° | 8671.5 | 8621.4 | 8654.3 | 8574.2 | 8494.1 | 8345.3 | 8152.2 | 7881.9 | 7551.4 | 7175.2 |
| 7.5° | 8558.5 | 8524.1 | 8608.5 | 8680.0 | 8740.1 | 8721.5 | 8579.9 | 8296.7 | 7870.4 | 7324.0 |
| 10° | 7647.3 | 7608.6 | 7727.4 | 7974.8 | 8338.2 | 8654.3 | 8826.0 | 8650.0 | 8196.6 | 7487.0 |
| 12.5° | 6843.3 | 6824.7 | 6903.4 | 7103.7 | 7507.1 | 8113.6 | 8794.5 | 8959.0 | 8535.6 | 7680.2 |
| 15° | 6500.0 | 6477.1 | 6527.2 | 6628.8 | 6886.2 | 7451.3 | 8508.4 | 9170.7 | 8868.9 | 7903.3 |
| 17.5° | 6424.2 | 6398.5 | 6419.9 | 6472.8 | 6638.8 | 7069.3 | 8076.4 | 9275.1 | 9216.5 | 8152.2 |
| 20° | 6564.4 | 6542.9 | 6545.8 | 6542.9 | 6658.8 | 7000.7 | 7776.0 | 9235.1 | 9519.7 | 8381.1 |
| 22.5° | 6903.4 | 6867.7 | 6869.1 | 6793.3 | 6856.2 | 7120.8 | 7697.3 | 9127.8 | 9790.1 | 8581.3 |
| 25° | 7455.6 | 7391.2 | 7404.1 | 7211.0 | 7193.8 | 7389.8 | 7820.3 | 9044.8 | 10059.0 | 8741.6 |
| 27.5° | 8210.9 | 8137.9 | 8099.3 | 7811.8 | 7674.4 | 7771.7 | 8070.7 | 9073.4 | 10313.6 | 8880.3 |
| 30° | 9155.0 | 9066.3 | 8987.6 | 8579.9 | 8331.0 | 8295.3 | 8459.8 | 9262.2 | 10614.0 | 9026.2 |
| 32.5° | 10312.2 | 10209.2 | 10066.2 | 9525.5 | 9175.0 | 8987.6 | 8963.3 | 9598.4 | 10965.9 | 9212.2 |
| 35° | 11689.7 | 11555.3 | 11352.2 | 10652.7 | 10209.2 | 9825.9 | 9627.0 | 10083.3 | 11448.0 | 9492.6 |
| 37.5° | 13108.8 | 12957.1 | 12771.2 | 11938.6 | 11393.6 | 10828.6 | 10436.7 | 10741.3 | 12090.3 | 9873.1 |
| 40° | 14417.6 | 14247.4 | 14074.3 | 13333.3 | 12748.3 | 12067.4 | 11428.0 | 11573.9 | 12875.6 | 10327.9 |
| 42.5° | 15190.1 | 15064.2 | 14998.4 | 14597.9 | 14145.8 | 13454.9 | 12661.0 | 12560.9 | 13758.2 | 10851.5 |
| 45° | 15155.8 | 15104.3 | 15307.4 | 15473.3 | 15366.0 | 14982.7 | 14105.8 | 13652.3 | 14643.7 | 11304.9 |
| 47.5° | 14346.1 | 14380.4 | 14833.9 | 15766.6 | 16177.1 | 16377.4 | 15750.8 | 14723.8 | 15413.2 | 11644.0 |
| 50° | 12143.2 | 12171.8 | 13221.8 | 15233.0 | 16386.0 | 17514.6 | 17383.0 | 15769.4 | 16009.7 | 11851.4 |
| 52.5° | 10399.5 | 10418.1 | 10868.7 | 13650.9 | 15696.5 | 18086.8 | 18853.5 | 16755.0 | 16446.0 | 11908.6 |
| 55° | 7833.2 | 7897.6 | 8402.5 | 10709.9 | 13902.7 | 17633.3 | 19749.0 | 17770.6 | 16722.1 | 11914.3 |
| 57.5° | 4576.1 | 4646.1 | 5269.8 | 7269.6 | 10805.7 | 16052.7 | 19884.9 | 18671.8 | 16909.5 | 11868.6 |
| 60° | 2241.5 | 2271.6 | 2543.4 | 3820.8 | 6663.1 | 13007.2 | 18792.0 | 19108.1 | 17013.9 | 11844.2 |
| 62.5° | 1510.6 | 1506.3 | 1517.7 | 1885.4 | 3282.9 | 8356.8 | 16514.7 | 18344.3 | 16958.1 | 11751.3 |
| 65° | 1298.9 | 1283.1 | 1240.2 | 1323.2 | 1700.8 | 3822.2 | 12759.7 | 16064.1 | 16533.3 | 11518.1 |
| 67.5° | 1122.9 | 1124.3 | 1125.8 | 1100.0 | 1214.5 | 1763.8 | 7797.5 | 12653.9 | 15008.4 | 10413.8 |
| 70° | 929.8 | 942.7 | 948.4 | 948.4 | 989.9 | 1157.2 | 3328.7 | 8672.9 | 11838.5 | 8165.1 |
| 72.5° | 846.8 | 819.7 | 822.5 | 808.2 | 808.2 | 881.2 | 1340.3 | 4916.5 | 7458.4 | 4593.2 |
| 75° | 690.9 | 708.1 | 710.9 | 700.9 | 668.0 | 672.3 | 795.3 | 2062.7 | 3191.4 | 1905.4 |
| 77.5° | 596.5 | 596.5 | 602.2 | 595.1 | 569.3 | 503.5 | 530.7 | 799.6 | 1085.7 | 781.0 |
| 80° | 479.2 | 477.8 | 502.1 | 516.4 | 476.3 | 371.9 | 339.0 | 442.0 | 482.1 | 343.3 |
| 82.5° | 233.2 | 247.5 | 344.7 | 393.4 | 361.9 | 268.9 | 207.4 | 274.6 | 257.5 | 151.6 |
| 85° | 135.9 | 128.7 | 154.5 | 218.9 | 207.4 | 148.8 | 100.1 | 143.0 | 134.5 | 77.2 |
| 87.5° | 42.9 | 40.1 | 31.5 | 74.4 | 60.1 | 41.5 | 27.2 | 41.5 | 37.2 | 17.2 |
| 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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 CATALOG NUMBER: GLAN-SB5B-840-U-AFL

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6933.5 | 0° | 6933.5 | 6933.5 | 6933.5 | 6933.5 | 6933.5 | 6933.5 | 6933.5 | 6933.5 | 6933.5 | 6933.5 |
| 6956.3 | 2.5° | 6854.8 | 6686.0 | 6518.6 | 6365.6 | 6272.6 | 6212.5 | 6152.4 | 6085.2 | 6059.4 | 6020.8 |
| 6974.9 | 5° | 6786.1 | 6460.0 | 6169.6 | 5919.3 | 5691.8 | 5513.0 | 5332.8 | 5186.9 | 5121.1 | 5165.4 |
| 7033.6 | 7.5° | 6746.1 | 6274.0 | 5826.3 | 5367.1 | 4925.1 | 4571.8 | 4264.2 | 4048.2 | 3950.9 | 3975.3 |
| 7090.8 | 10° | 6710.3 | 6063.7 | 5381.4 | 4656.2 | 4021.0 | 3583.3 | 3268.6 | 3104.1 | 3042.6 | 3055.5 |
| 7168.1 | 12.5° | 6677.4 | 5827.7 | 4845.0 | 3890.9 | 3215.7 | 2926.7 | 2836.6 | 2838.0 | 2849.5 | 2858.1 |
| 7291.1 | 15° | 6671.7 | 5543.0 | 4245.6 | 3221.4 | 2780.8 | 2762.2 | 2859.5 | 2921.0 | 2953.9 | 2963.9 |
| 7394.1 | 17.5° | 6663.1 | 5202.6 | 3634.8 | 2765.1 | 2675.0 | 2800.8 | 2891.0 | 2931.0 | 2956.8 | 2958.2 |
| 7494.2 | 20° | 6628.8 | 4770.6 | 3071.2 | 2547.7 | 2652.1 | 2760.8 | 2816.6 | 2848.1 | 2869.5 | 2876.7 |
| 7570.0 | 22.5° | 6522.9 | 4290.0 | 2632.1 | 2450.4 | 2560.5 | 2647.8 | 2713.6 | 2749.3 | 2762.2 | 2770.8 |
| 7584.3 | 25° | 6332.7 | 3752.1 | 2328.8 | 2357.4 | 2433.2 | 2543.4 | 2596.3 | 2603.4 | 2599.2 | 2612.0 |
| 7548.6 | 27.5° | 6083.8 | 3175.6 | 2140.0 | 2231.5 | 2328.8 | 2423.2 | 2451.8 | 2447.5 | 2438.9 | 2453.2 |
| 7487.0 | 30° | 5783.4 | 2657.8 | 2019.8 | 2089.9 | 2222.9 | 2308.8 | 2334.5 | 2324.5 | 2307.3 | 2323.1 |
| 7455.6 | 32.5° | 5465.8 | 2234.4 | 1921.1 | 1991.2 | 2135.7 | 2220.1 | 2245.8 | 2235.8 | 2222.9 | 2235.8 |
| 7491.3 | 35° | 5169.7 | 1938.3 | 1829.6 | 1925.4 | 2067.0 | 2150.0 | 2182.9 | 2184.3 | 2184.3 | 2200.1 |
| 7585.7 | 37.5° | 4897.9 | 1765.2 | 1753.7 | 1883.9 | 2019.8 | 2094.2 | 2141.4 | 2144.3 | 2082.8 | 2087.0 |
| 7746.0 | 40° | 4646.1 | 1692.2 | 1719.4 | 1856.7 | 1974.0 | 2045.6 | 2048.4 | 1888.2 | 1775.2 | 1772.3 |
| 7929.1 | 42.5° | 4440.2 | 1677.9 | 1729.4 | 1853.9 | 1941.1 | 1944.0 | 1742.3 | 1617.9 | 1586.4 | 1587.8 |
| 8097.9 | 45° | 4247.0 | 1673.6 | 1752.3 | 1853.9 | 1892.5 | 1679.4 | 1543.5 | 1510.6 | 1513.4 | 1524.9 |
| 8173.7 | 47.5° | 4031.0 | 1656.5 | 1756.6 | 1828.1 | 1752.3 | 1493.4 | 1453.4 | 1439.0 | 1433.3 | 1436.2 |
| 8156.5 | 50° | 3795.0 | 1595.0 | 1702.3 | 1776.6 | 1512.0 | 1413.3 | 1363.2 | 1358.9 | 1366.1 | 1370.4 |
| 8060.7 | 52.5° | 3546.1 | 1494.8 | 1609.3 | 1683.7 | 1401.9 | 1343.2 | 1287.4 | 1297.4 | 1328.9 | 1338.9 |
| 7960.5 | 55° | 3383.0 | 1377.5 | 1486.3 | 1497.7 | 1324.6 | 1277.4 | 1230.2 | 1253.1 | 1311.7 | 1330.3 |
| 7900.4 | 57.5° | 3340.1 | 1253.1 | 1346.1 | 1333.2 | 1225.9 | 1220.2 | 1191.6 | 1211.6 | 1286.0 | 1313.2 |
| 7897.6 | 60° | 3327.3 | 1141.5 | 1208.7 | 1198.7 | 1130.1 | 1157.2 | 1150.1 | 1160.1 | 1185.9 | 1194.4 |
| 7869.0 | 62.5° | 3227.1 | 1052.8 | 1085.7 | 1071.4 | 1044.2 | 1091.4 | 1108.6 | 1087.2 | 1107.2 | 1117.2 |
| 7673.0 | 65° | 2972.5 | 981.3 | 965.6 | 955.5 | 967.0 | 1009.9 | 1044.2 | 1001.3 | 1019.9 | 1048.5 |
| 6917.7 | 67.5° | 2551.9 | 884.0 | 841.1 | 852.6 | 888.3 | 911.2 | 955.5 | 906.9 | 922.6 | 971.3 |
| 5571.7 | 70° | 2064.2 | 761.0 | 722.4 | 755.3 | 789.6 | 836.8 | 844.0 | 811.1 | 848.3 | 902.6 |
| 3400.2 | 72.5° | 1460.5 | 636.6 | 609.4 | 676.6 | 688.1 | 749.6 | 733.8 | 718.1 | 769.6 | 788.2 |
| 1680.8 | 75° | 1012.8 | 513.5 | 497.8 | 549.3 | 590.8 | 643.7 | 632.3 | 650.9 | 759.6 | 768.2 |
| 839.7 | 77.5° | 640.8 | 399.1 | 389.1 | 422.0 | 479.2 | 537.9 | 556.5 | 768.2 | 1297.4 | 1348.9 |
| 436.3 | 80° | 371.9 | 297.5 | 286.1 | 311.8 | 361.9 | 416.3 | 536.4 | 942.7 | 855.4 | 845.4 |
| 196.0 | 82.5° | 207.4 | 204.6 | 190.3 | 197.4 | 241.7 | 300.4 | 758.1 | 663.7 | 539.3 | 556.5 |
| 78.7 | 85° | 97.3 | 120.2 | 103.0 | 98.7 | 135.9 | 351.9 | 506.4 | 379.1 | 251.8 | 246.0 |
| 17.2 | 87.5° | 25.7 | 22.9 | 22.9 | 25.7 | 57.2 | 303.3 | 201.7 | 161.6 | 95.8 | 93.0 |
| 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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