

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: P850725

Luminaire Tested: **GLAN-SB8B-840-U-T2-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB8B-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29569 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

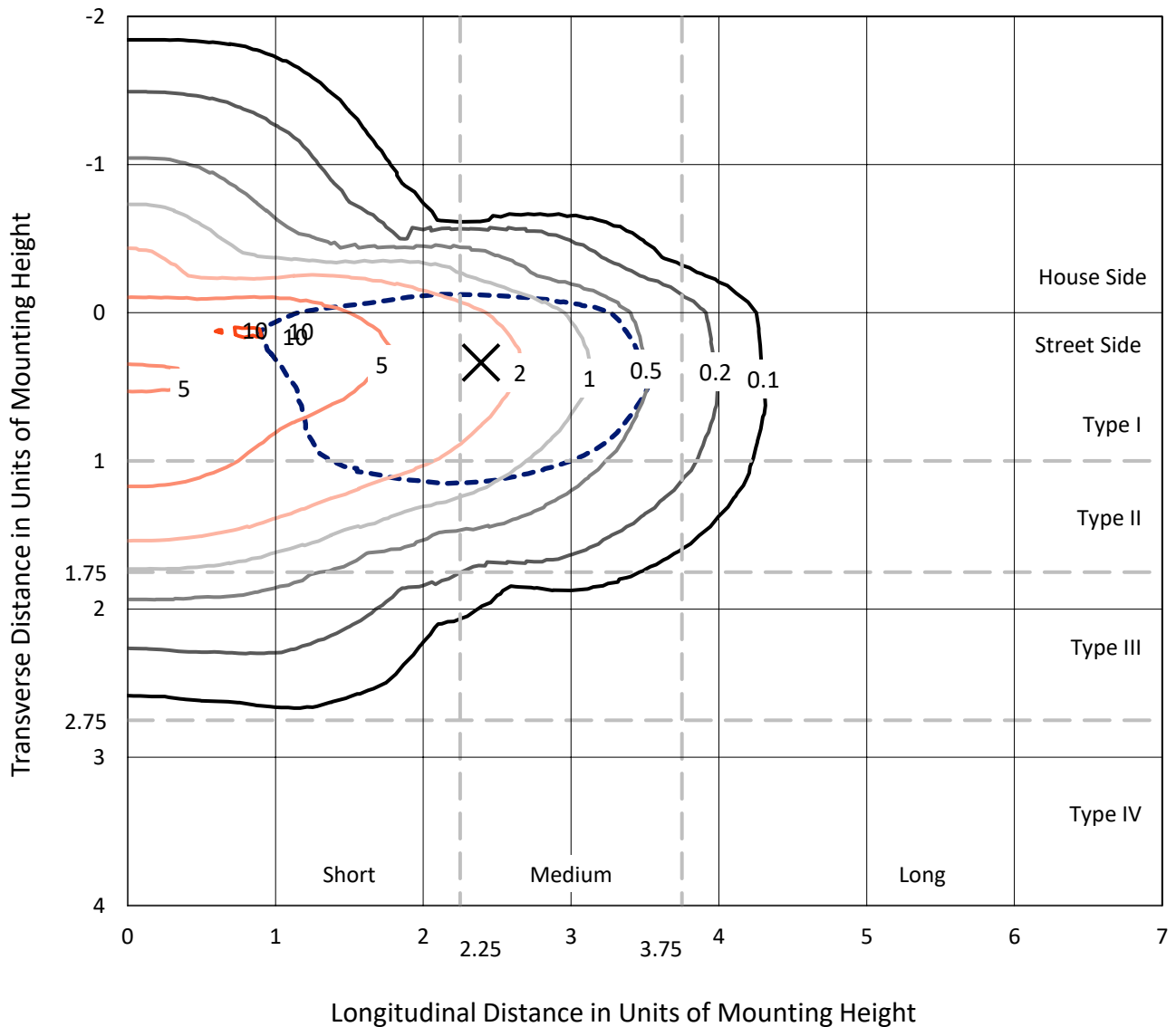
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

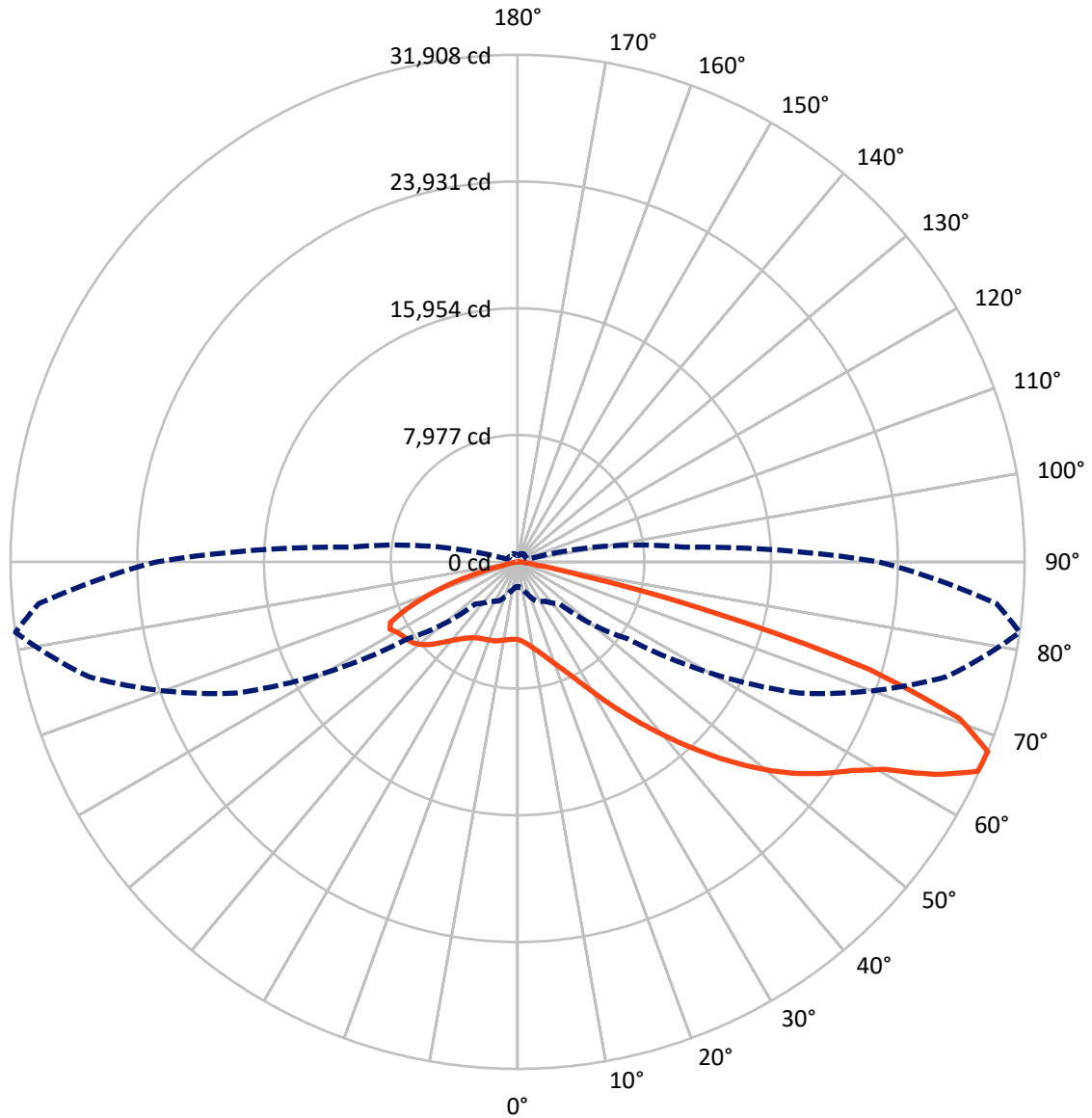
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5356.2 | 0.0 | 5356.2 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 24212.8 | 0.0 | 24212.8 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 29569.0 | 0.0 | 29569.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 436.4 | 1.5 |
| 10°-20° | 1134.1 | 3.8 |
| 20°-30° | 1816.5 | 6.1 |
| 30°-40° | 3212.1 | 10.9 |
| 40°-50° | 5627.9 | 19.0 |
| 50°-60° | 7506.0 | 25.4 |
| 60°-70° | 6987.7 | 23.6 |
| 70°-80° | 2681.9 | 9.1 |
| 80°-90° | 166.6 | 0.6 |
| 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° | 29569.0 | 100.0 |
| 0°-180° | 29569.0 | 100.0 |

Coefficient of Utilization

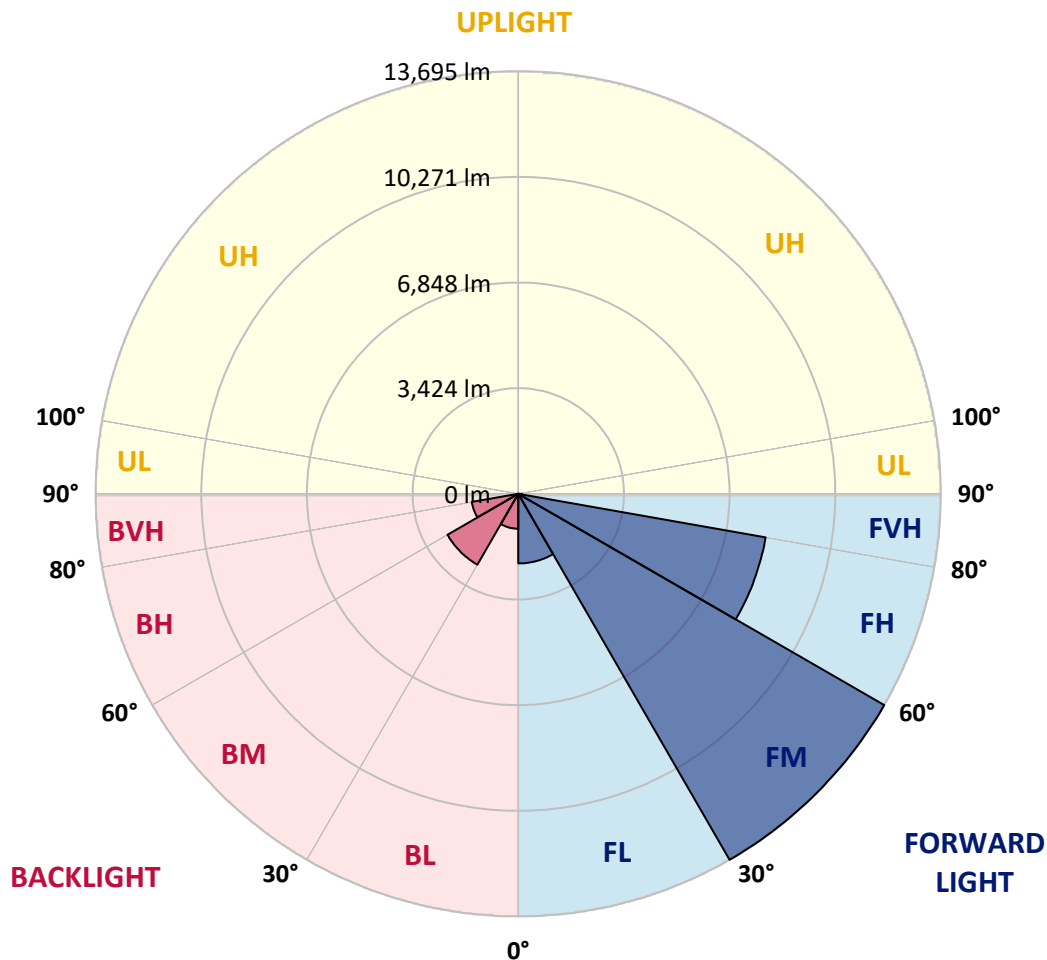


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2255.8 | 7.6 | | | |
| FM (30°-60°) | 13695.1 | 46.3 | | | |
| FH (60°-80°) | 8140.8 | 27.5 | | | G4/12000 |
| FVH (80°-90°) | 121.1 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1131.2 | 3.8 | B3/2500 | | |
| BM (30°-60°) | 2650.7 | 9.0 | B3/5000 | | |
| BH (60°-80°) | 1528.7 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 45.5 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4898.6 | 4898.6 | 4898.6 | 4898.6 | 4898.6 | 4898.6 | 4898.6 | 4898.6 | 4898.6 | 4898.6 |
| 2.5° | 5177.5 | 5207.3 | 5190.2 | 5181.7 | 5166.8 | 5145.5 | 5128.5 | 5075.3 | 5019.9 | 4983.7 |
| 5° | 5281.8 | 5311.6 | 5309.5 | 5318.0 | 5328.6 | 5335.0 | 5330.7 | 5271.1 | 5192.4 | 5130.6 |
| 7.5° | 5192.4 | 5226.4 | 5254.1 | 5296.7 | 5371.2 | 5450.0 | 5488.3 | 5475.5 | 5394.6 | 5309.5 |
| 10° | 4939.0 | 4975.2 | 5041.2 | 5141.3 | 5298.8 | 5469.1 | 5611.8 | 5677.8 | 5626.7 | 5533.0 |
| 12.5° | 4474.9 | 4511.1 | 4641.0 | 4858.1 | 5122.1 | 5418.0 | 5690.5 | 5867.2 | 5880.0 | 5786.3 |
| 15° | 3953.4 | 3989.5 | 4127.9 | 4400.4 | 4802.8 | 5277.5 | 5733.1 | 6067.3 | 6180.2 | 6099.3 |
| 17.5° | 3629.8 | 3661.7 | 3766.0 | 3985.3 | 4404.7 | 4996.5 | 5718.2 | 6280.2 | 6537.8 | 6474.0 |
| 20° | 3531.8 | 3559.5 | 3608.5 | 3761.8 | 4110.9 | 4704.9 | 5620.3 | 6480.4 | 6923.2 | 6887.0 |
| 22.5° | 3636.1 | 3661.7 | 3676.6 | 3744.7 | 3964.0 | 4513.3 | 5496.8 | 6684.7 | 7370.2 | 7374.5 |
| 25° | 3876.7 | 3902.3 | 3885.2 | 3927.8 | 4023.6 | 4453.6 | 5450.0 | 6925.3 | 7932.3 | 7979.1 |
| 27.5° | 4272.7 | 4274.8 | 4234.4 | 4232.2 | 4247.1 | 4543.1 | 5498.9 | 7182.9 | 8641.2 | 8728.5 |
| 30° | 5066.8 | 5034.8 | 4879.4 | 4711.2 | 4634.6 | 4811.3 | 5635.2 | 7487.3 | 9477.8 | 9633.2 |
| 32.5° | 6290.9 | 6244.0 | 5958.8 | 5556.4 | 5151.9 | 5243.5 | 5880.0 | 7834.3 | 10389.0 | 10670.0 |
| 35° | 7619.3 | 7606.5 | 7308.5 | 6710.3 | 6003.5 | 5858.7 | 6278.1 | 8289.9 | 11383.2 | 11830.3 |
| 37.5° | 8854.1 | 8847.7 | 8677.4 | 7972.7 | 7112.6 | 6716.7 | 6916.8 | 8886.0 | 12447.6 | 13094.8 |
| 40° | 9982.4 | 10001.5 | 9831.2 | 9201.1 | 8334.6 | 7817.3 | 7785.4 | 9622.6 | 13631.3 | 14472.2 |
| 42.5° | 10957.4 | 10978.7 | 10806.3 | 10340.0 | 9541.7 | 9035.0 | 8851.9 | 10525.2 | 14787.3 | 15951.8 |
| 45° | 11619.5 | 11751.5 | 11725.9 | 11353.4 | 10780.7 | 10254.9 | 10133.5 | 11657.8 | 16105.1 | 17520.8 |
| 47.5° | 11806.8 | 11928.2 | 12119.8 | 12170.9 | 11821.7 | 11304.4 | 11449.2 | 13022.4 | 17437.8 | 19091.9 |
| 50° | 11344.9 | 11457.7 | 11855.8 | 12385.9 | 12628.6 | 12468.9 | 12728.7 | 14485.0 | 18802.4 | 20658.8 |
| 52.5° | 10433.7 | 10548.7 | 11051.1 | 11889.9 | 12879.8 | 13382.2 | 14012.4 | 15926.2 | 20124.4 | 22142.6 |
| 55° | 9115.9 | 9237.3 | 9882.3 | 10831.8 | 12400.8 | 13759.0 | 15083.2 | 17365.4 | 21335.8 | 23477.4 |
| 57.5° | 7323.4 | 7412.8 | 8083.4 | 9411.8 | 11195.8 | 13384.3 | 15873.0 | 18936.5 | 22476.9 | 24788.8 |
| 60° | 4773.0 | 4851.7 | 5630.9 | 7112.6 | 9198.9 | 12132.6 | 16030.6 | 20688.6 | 23992.6 | 26494.1 |
| 62.5° | 3174.2 | 3227.4 | 3689.4 | 4777.2 | 6478.2 | 9729.0 | 15108.8 | 22087.3 | 26215.2 | 29461.7 |
| 65° | 2177.9 | 2231.1 | 2693.0 | 3450.9 | 4185.4 | 6435.6 | 12458.3 | 21902.1 | 28229.1 | 31818.4 |
| 67.5° | 1554.1 | 1598.8 | 1990.5 | 2705.8 | 3029.4 | 3738.3 | 8445.3 | 19534.7 | 27939.6 | 31907.8 |
| 70° | 1113.4 | 1139.0 | 1462.5 | 2107.6 | 2407.8 | 2246.0 | 4696.3 | 14940.6 | 24463.1 | 29463.9 |
| 72.5° | 779.2 | 787.7 | 1015.5 | 1605.2 | 1939.4 | 1639.2 | 2235.3 | 9961.1 | 18502.2 | 23126.2 |
| 75° | 528.0 | 538.6 | 683.4 | 1177.3 | 1556.2 | 1251.8 | 1183.7 | 5341.4 | 10861.6 | 12801.0 |
| 77.5° | 323.6 | 327.8 | 440.7 | 804.7 | 1164.5 | 953.7 | 762.1 | 2263.0 | 4202.4 | 4125.8 |
| 80° | 183.1 | 183.1 | 281.0 | 500.3 | 794.1 | 615.3 | 534.4 | 962.3 | 1330.6 | 1168.8 |
| 82.5° | 102.2 | 104.3 | 204.4 | 310.8 | 525.8 | 364.0 | 293.8 | 444.9 | 574.8 | 508.8 |
| 85° | 42.6 | 46.8 | 125.6 | 146.9 | 251.2 | 181.0 | 119.2 | 187.3 | 212.9 | 189.5 |
| 87.5° | 4.3 | 6.4 | 38.3 | 27.7 | 29.8 | 36.2 | 17.0 | 36.2 | 29.8 | 29.8 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4898.6 | 0° | 4898.6 | 4898.6 | 4898.6 | 4898.6 | 4898.6 | 4898.6 | 4898.6 | 4898.6 | 4898.6 | 4898.6 |
| 4971.0 | 2.5° | 4930.5 | 4898.6 | 4817.7 | 4724.0 | 4600.5 | 4540.9 | 4460.0 | 4404.7 | 4357.8 | 4362.1 |
| 5094.4 | 5° | 5026.3 | 4945.4 | 4764.5 | 4538.8 | 4257.8 | 4057.7 | 3844.8 | 3697.9 | 3578.7 | 3553.1 |
| 5264.8 | 7.5° | 5158.3 | 5030.6 | 4713.4 | 4306.8 | 3832.0 | 3472.2 | 3150.8 | 2944.3 | 2797.4 | 2750.5 |
| 5471.3 | 10° | 5328.6 | 5143.4 | 4647.4 | 4015.1 | 3331.7 | 2874.0 | 2529.1 | 2367.3 | 2267.3 | 2233.2 |
| 5713.9 | 12.5° | 5526.6 | 5273.3 | 4560.1 | 3659.6 | 2816.5 | 2375.8 | 2156.6 | 2075.7 | 2043.7 | 2033.1 |
| 6012.0 | 15° | 5775.7 | 5435.1 | 4428.1 | 3238.0 | 2380.1 | 2071.4 | 1977.7 | 1967.1 | 1971.4 | 1967.1 |
| 6369.6 | 17.5° | 6071.6 | 5611.8 | 4213.1 | 2803.8 | 2086.3 | 1916.0 | 1881.9 | 1890.5 | 1901.1 | 1899.0 |
| 6769.9 | 20° | 6395.2 | 5786.3 | 3938.5 | 2418.4 | 1886.2 | 1805.3 | 1786.1 | 1794.7 | 1803.2 | 1798.9 |
| 7231.8 | 22.5° | 6763.5 | 5973.7 | 3634.0 | 2118.2 | 1752.1 | 1703.1 | 1681.8 | 1684.0 | 1684.0 | 1675.4 |
| 7817.3 | 25° | 7204.2 | 6180.2 | 3314.7 | 1905.4 | 1649.9 | 1611.6 | 1586.0 | 1577.5 | 1564.7 | 1539.2 |
| 8528.3 | 27.5° | 7730.0 | 6399.5 | 3008.1 | 1756.3 | 1569.0 | 1532.8 | 1503.0 | 1481.7 | 1449.8 | 1407.2 |
| 9382.0 | 30° | 8321.8 | 6665.6 | 2748.4 | 1662.7 | 1505.1 | 1468.9 | 1434.9 | 1402.9 | 1356.1 | 1302.9 |
| 10363.5 | 32.5° | 9018.0 | 6950.8 | 2558.9 | 1600.9 | 1447.6 | 1409.3 | 1368.9 | 1330.6 | 1279.5 | 1226.2 |
| 11466.2 | 35° | 9848.3 | 7295.7 | 2448.2 | 1558.3 | 1402.9 | 1351.8 | 1307.1 | 1264.6 | 1226.2 | 1179.4 |
| 12664.8 | 37.5° | 10748.8 | 7661.9 | 2414.2 | 1537.1 | 1373.1 | 1294.4 | 1243.3 | 1213.5 | 1209.2 | 1181.5 |
| 13961.3 | 40° | 11734.5 | 8096.2 | 2439.7 | 1524.3 | 1341.2 | 1239.0 | 1183.7 | 1177.3 | 1187.9 | 1139.0 |
| 15347.2 | 42.5° | 12777.6 | 8611.4 | 2482.3 | 1509.4 | 1296.5 | 1183.7 | 1130.4 | 1130.4 | 1121.9 | 1053.8 |
| 16811.9 | 45° | 13905.9 | 9205.3 | 2524.9 | 1473.2 | 1243.3 | 1128.3 | 1087.9 | 1073.0 | 1036.8 | 970.8 |
| 18285.1 | 47.5° | 15042.8 | 9809.9 | 2556.8 | 1407.2 | 1179.4 | 1081.5 | 1045.3 | 1011.2 | 958.0 | 898.4 |
| 19730.6 | 50° | 16122.1 | 10352.8 | 2522.7 | 1309.3 | 1107.0 | 1036.8 | 998.5 | 951.6 | 894.1 | 853.7 |
| 21099.5 | 52.5° | 17086.5 | 10823.3 | 2378.0 | 1194.3 | 1030.4 | 989.9 | 955.9 | 906.9 | 860.1 | 817.5 |
| 22334.2 | 55° | 17925.3 | 11204.4 | 2122.5 | 1085.7 | 962.3 | 949.5 | 915.4 | 853.7 | 789.8 | 753.6 |
| 23558.3 | 57.5° | 18730.0 | 11493.9 | 1803.2 | 996.3 | 900.5 | 904.8 | 853.7 | 798.3 | 738.7 | 700.4 |
| 25208.2 | 60° | 19800.8 | 11881.4 | 1479.6 | 913.3 | 834.5 | 847.3 | 791.9 | 751.5 | 677.0 | 628.0 |
| 28037.5 | 62.5° | 21512.5 | 12483.8 | 1175.1 | 811.1 | 757.9 | 762.1 | 738.7 | 689.8 | 600.3 | 542.9 |
| 30134.5 | 65° | 22870.7 | 12262.4 | 926.1 | 700.4 | 670.6 | 677.0 | 677.0 | 623.8 | 528.0 | 462.0 |
| 30247.3 | 67.5° | 22717.4 | 10499.7 | 738.7 | 591.8 | 587.6 | 591.8 | 606.7 | 562.0 | 468.4 | 415.1 |
| 27943.8 | 70° | 20927.0 | 8351.6 | 591.8 | 491.8 | 510.9 | 500.3 | 542.9 | 513.1 | 421.5 | 368.3 |
| 21663.6 | 72.5° | 17075.9 | 6016.3 | 451.3 | 406.6 | 391.7 | 408.7 | 489.6 | 462.0 | 351.3 | 291.7 |
| 11474.7 | 75° | 9978.1 | 3210.4 | 336.4 | 321.5 | 283.1 | 340.6 | 434.3 | 393.8 | 268.2 | 215.0 |
| 3516.9 | 77.5° | 3248.7 | 1119.8 | 247.0 | 236.3 | 210.8 | 274.6 | 370.4 | 332.1 | 219.3 | 170.3 |
| 1030.4 | 80° | 870.7 | 338.5 | 168.2 | 155.4 | 136.2 | 204.4 | 293.8 | 264.0 | 157.5 | 110.7 |
| 442.8 | 82.5° | 349.1 | 142.6 | 97.9 | 87.3 | 74.5 | 140.5 | 232.0 | 212.9 | 117.1 | 70.3 |
| 138.4 | 85° | 112.8 | 46.8 | 36.2 | 27.7 | 34.1 | 87.3 | 138.4 | 144.8 | 83.0 | 36.2 |
| 21.3 | 87.5° | 14.9 | 6.4 | 6.4 | 8.5 | 6.4 | 14.9 | 42.6 | 40.4 | 23.4 | 4.3 |
| 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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| <u>180°</u> |
|-------------|
| 4898.6 |
| 4319.5 |
| 3495.6 |
| 2703.7 |
| 2207.7 |
| 2026.7 |
| 1965.0 |
| 1894.7 |
| 1796.8 |
| 1671.2 |
| 1534.9 |
| 1402.9 |
| 1298.6 |
| 1228.4 |
| 1175.1 |
| 1179.4 |
| 1141.1 |
| 1053.8 |
| 968.6 |
| 896.3 |
| 847.3 |
| 813.2 |
| 749.4 |
| 696.1 |
| 621.6 |
| 538.6 |
| 455.6 |
| 406.6 |
| 361.9 |
| 285.3 |
| 208.6 |
| 163.9 |
| 108.6 |
| 70.3 |
| 27.7 |
| 0.0 |
| 0.0 |

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