

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: P850045

Luminaire Tested: **GLAN-SB7B-840-U-T2-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850045
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-SB7B-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 26006 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

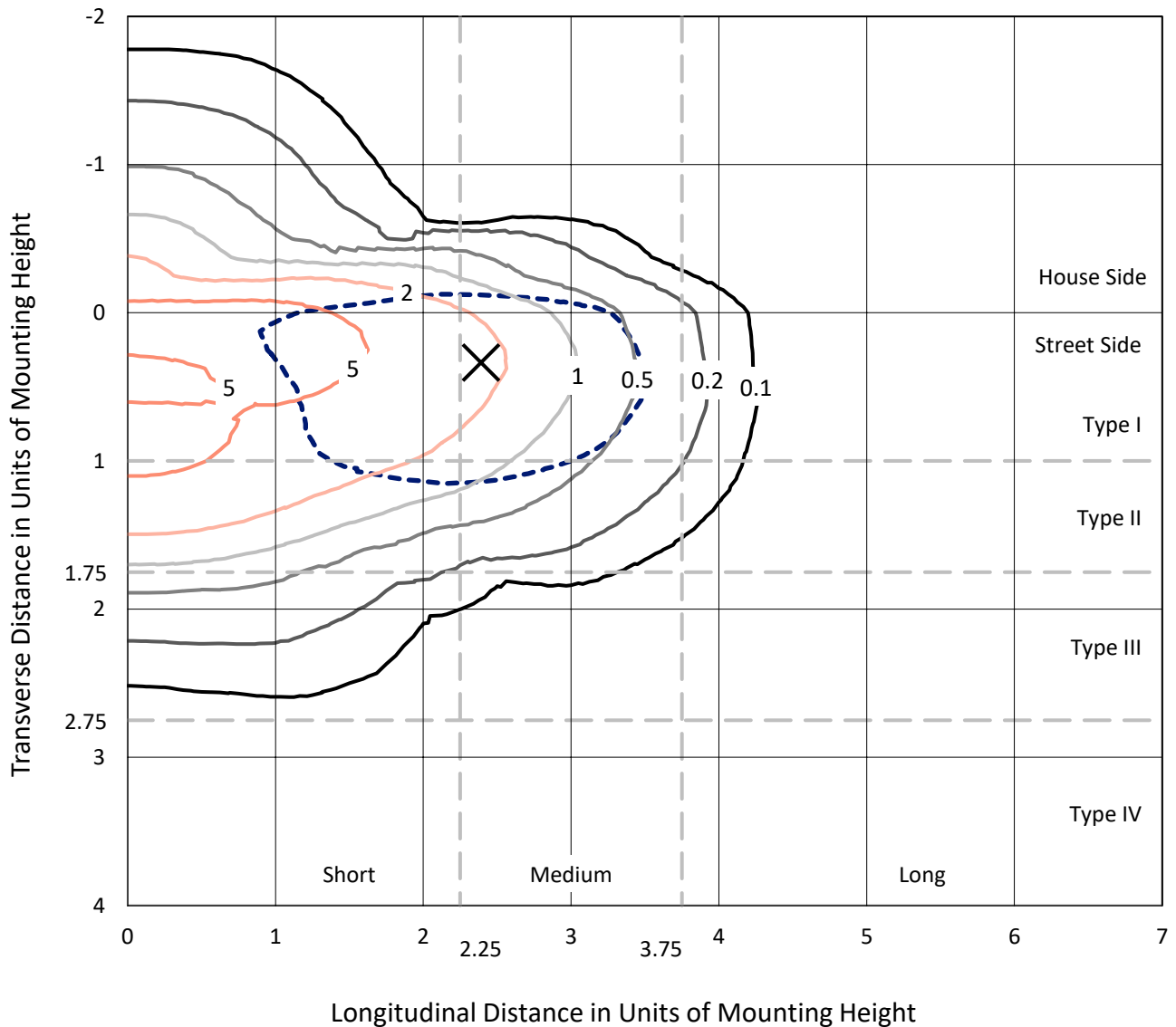
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

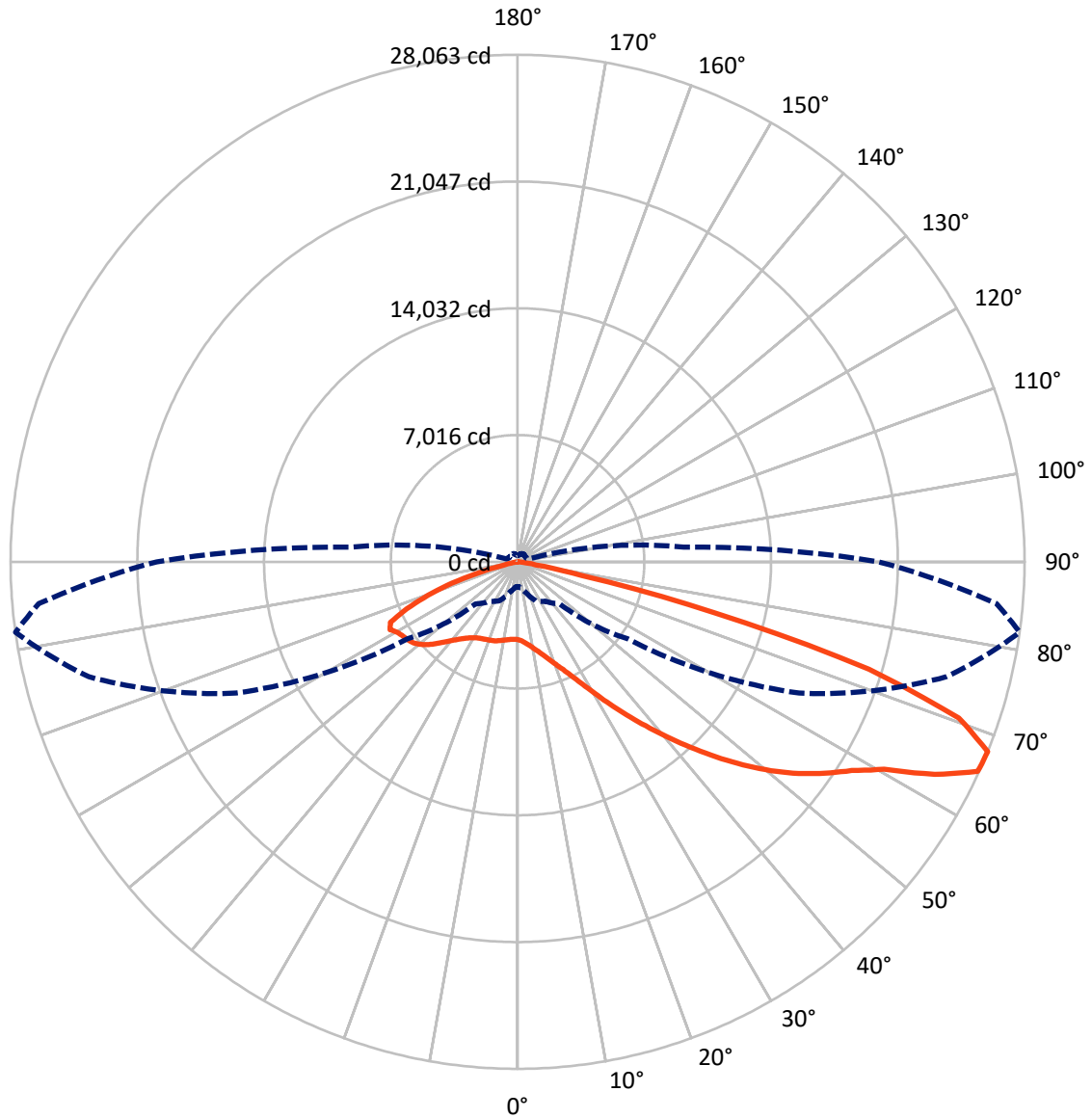
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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 | 4710.7 | 0.0 | 4710.7 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 21295.2 | 0.0 | 21295.2 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 26006.0 | 0.0 | 26006.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 383.8 | 1.5 |
| 10°-20° | 997.4 | 3.8 |
| 20°-30° | 1597.6 | 6.1 |
| 30°-40° | 2825.0 | 10.9 |
| 40°-50° | 4949.7 | 19.0 |
| 50°-60° | 6601.5 | 25.4 |
| 60°-70° | 6145.7 | 23.6 |
| 70°-80° | 2358.7 | 9.1 |
| 80°-90° | 146.5 | 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° | 26006.0 | 100.0 |
| 0°-180° | 26006.0 | 100.0 |

Coefficient of Utilization

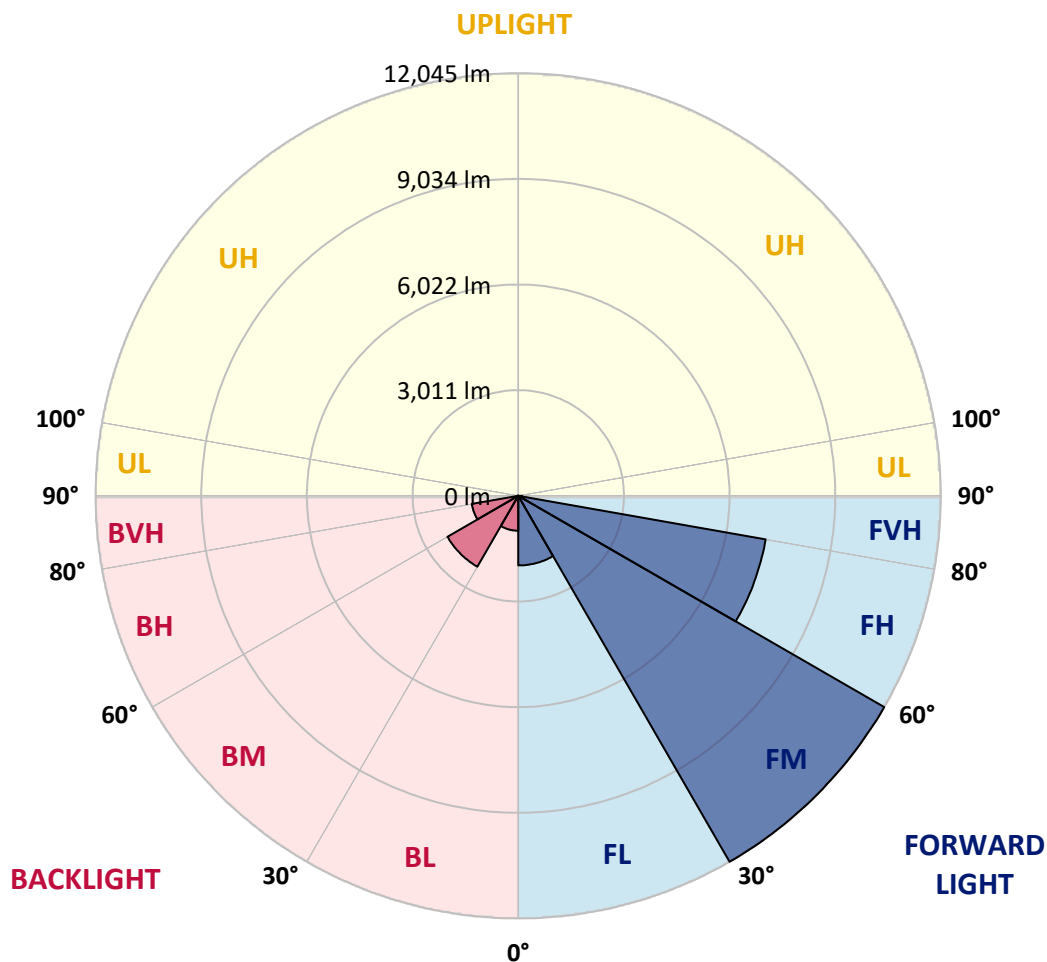


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1984.0 | 7.6 | | | |
| FM (30°-60°) | 12044.9 | 46.3 | | | |
| FH (60°-80°) | 7159.8 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 106.5 | 0.4 | | | G2/225 |
| BL (0°-30°) | 994.9 | 3.8 | B2/1000 | | |
| BM (30°-60°) | 2331.3 | 9.0 | B2/2500 | | |
| BH (60°-80°) | 1344.5 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 40.0 | 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-G3
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4308.3 | 4308.3 | 4308.3 | 4308.3 | 4308.3 | 4308.3 | 4308.3 | 4308.3 | 4308.3 | 4308.3 |
| 2.5° | 4553.6 | 4579.8 | 4564.8 | 4557.3 | 4544.2 | 4525.5 | 4510.5 | 4463.7 | 4415.0 | 4383.2 |
| 5° | 4645.3 | 4671.6 | 4669.7 | 4677.2 | 4686.5 | 4692.1 | 4688.4 | 4636.0 | 4566.7 | 4512.4 |
| 7.5° | 4566.7 | 4596.7 | 4621.0 | 4658.4 | 4724.0 | 4793.3 | 4827.0 | 4815.7 | 4744.6 | 4669.7 |
| 10° | 4343.9 | 4375.7 | 4433.8 | 4521.8 | 4660.3 | 4810.1 | 4935.6 | 4993.6 | 4948.7 | 4866.3 |
| 12.5° | 3935.7 | 3967.5 | 4081.8 | 4272.7 | 4504.9 | 4765.2 | 5004.8 | 5160.2 | 5171.5 | 5089.1 |
| 15° | 3477.0 | 3508.8 | 3630.5 | 3870.2 | 4224.1 | 4641.6 | 5042.3 | 5336.2 | 5435.5 | 5364.3 |
| 17.5° | 3192.4 | 3220.5 | 3312.2 | 3505.1 | 3873.9 | 4394.4 | 5029.2 | 5523.5 | 5750.0 | 5693.9 |
| 20° | 3106.3 | 3130.6 | 3173.7 | 3308.5 | 3615.5 | 4137.9 | 4943.0 | 5699.5 | 6088.9 | 6057.1 |
| 22.5° | 3198.0 | 3220.5 | 3233.6 | 3293.5 | 3486.3 | 3969.4 | 4834.4 | 5879.2 | 6482.1 | 6485.9 |
| 25° | 3409.6 | 3432.0 | 3417.1 | 3454.5 | 3538.8 | 3917.0 | 4793.3 | 6090.8 | 6976.4 | 7017.6 |
| 27.5° | 3757.8 | 3759.7 | 3724.1 | 3722.3 | 3735.4 | 3995.6 | 4836.3 | 6317.4 | 7599.9 | 7676.7 |
| 30° | 4456.2 | 4428.1 | 4291.5 | 4143.5 | 4076.1 | 4231.5 | 4956.2 | 6585.1 | 8335.8 | 8472.5 |
| 32.5° | 5532.8 | 5491.6 | 5240.8 | 4886.9 | 4531.1 | 4611.6 | 5171.5 | 6890.3 | 9137.1 | 9384.3 |
| 35° | 6701.2 | 6690.0 | 6427.8 | 5901.7 | 5280.1 | 5152.8 | 5521.6 | 7291.0 | 10011.5 | 10404.7 |
| 37.5° | 7787.2 | 7781.6 | 7631.8 | 7012.0 | 6255.6 | 5907.3 | 6083.3 | 7815.3 | 10947.7 | 11516.9 |
| 40° | 8779.5 | 8796.4 | 8646.6 | 8092.4 | 7330.3 | 6875.3 | 6847.2 | 8463.1 | 11988.8 | 12728.3 |
| 42.5° | 9637.1 | 9655.8 | 9504.1 | 9094.1 | 8391.9 | 7946.3 | 7785.3 | 9257.0 | 13005.5 | 14029.6 |
| 45° | 10219.4 | 10335.5 | 10313.0 | 9985.3 | 9481.7 | 9019.2 | 8912.5 | 10253.1 | 14164.4 | 15409.6 |
| 47.5° | 10384.1 | 10490.9 | 10659.4 | 10704.3 | 10397.2 | 9942.3 | 10069.6 | 11453.3 | 15336.5 | 16791.4 |
| 50° | 9977.8 | 10077.1 | 10427.2 | 10893.4 | 11106.9 | 10966.4 | 11194.9 | 12739.6 | 16536.7 | 18169.4 |
| 52.5° | 9176.5 | 9277.6 | 9719.5 | 10457.2 | 11327.8 | 11769.7 | 12323.9 | 14007.2 | 17699.5 | 19474.5 |
| 55° | 8017.5 | 8124.2 | 8691.5 | 9526.6 | 10906.5 | 12101.1 | 13265.7 | 15272.9 | 18764.9 | 20648.5 |
| 57.5° | 6440.9 | 6519.6 | 7109.4 | 8277.7 | 9846.8 | 11771.6 | 13960.4 | 16654.7 | 19768.4 | 21801.8 |
| 60° | 4197.8 | 4267.1 | 4952.4 | 6255.6 | 8090.5 | 10670.6 | 14098.9 | 18195.7 | 21101.6 | 23301.6 |
| 62.5° | 2791.7 | 2838.5 | 3244.8 | 4201.6 | 5697.6 | 8556.7 | 13288.2 | 19425.8 | 23056.3 | 25911.7 |
| 65° | 1915.4 | 1962.2 | 2368.5 | 3035.1 | 3681.1 | 5660.2 | 10957.1 | 19262.9 | 24827.6 | 27984.4 |
| 67.5° | 1366.8 | 1406.1 | 1750.7 | 2379.8 | 2664.4 | 3287.9 | 7427.7 | 17180.8 | 24572.9 | 28063.0 |
| 70° | 979.2 | 1001.7 | 1286.3 | 1853.6 | 2117.6 | 1975.3 | 4130.4 | 13140.3 | 21515.4 | 25913.5 |
| 72.5° | 685.3 | 692.8 | 893.1 | 1411.8 | 1705.7 | 1441.7 | 1966.0 | 8760.8 | 16272.7 | 20339.5 |
| 75° | 464.3 | 473.7 | 601.0 | 1035.4 | 1368.7 | 1101.0 | 1041.0 | 4697.8 | 9552.8 | 11258.5 |
| 77.5° | 284.6 | 288.3 | 387.6 | 707.8 | 1024.2 | 838.8 | 670.3 | 1990.3 | 3696.1 | 3628.6 |
| 80° | 161.0 | 161.0 | 247.2 | 440.0 | 698.4 | 541.1 | 470.0 | 846.3 | 1170.2 | 1027.9 |
| 82.5° | 89.9 | 91.7 | 179.7 | 273.4 | 462.5 | 320.2 | 258.4 | 391.3 | 505.5 | 447.5 |
| 85° | 37.4 | 41.2 | 110.5 | 129.2 | 220.9 | 159.2 | 104.9 | 164.8 | 187.2 | 166.6 |
| 87.5° | 3.7 | 5.6 | 33.7 | 24.3 | 26.2 | 31.8 | 15.0 | 31.8 | 26.2 | 26.2 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4308.3 | 0° | 4308.3 | 4308.3 | 4308.3 | 4308.3 | 4308.3 | 4308.3 | 4308.3 | 4308.3 | 4308.3 | 4308.3 |
| 4372.0 | 2.5° | 4336.4 | 4308.3 | 4237.2 | 4154.8 | 4046.2 | 3993.8 | 3922.6 | 3873.9 | 3832.7 | 3836.5 |
| 4480.6 | 5° | 4420.7 | 4349.5 | 4190.4 | 3991.9 | 3744.7 | 3568.7 | 3381.5 | 3252.3 | 3147.4 | 3125.0 |
| 4630.4 | 7.5° | 4536.7 | 4424.4 | 4145.4 | 3787.8 | 3370.3 | 3053.8 | 2771.1 | 2589.5 | 2460.3 | 2419.1 |
| 4812.0 | 10° | 4686.5 | 4523.6 | 4087.4 | 3531.3 | 2930.3 | 2527.7 | 2224.4 | 2082.1 | 1994.1 | 1964.1 |
| 5025.4 | 12.5° | 4860.7 | 4637.9 | 4010.6 | 3218.6 | 2477.1 | 2089.6 | 1896.7 | 1825.6 | 1797.5 | 1788.1 |
| 5287.6 | 15° | 5079.7 | 4780.2 | 3894.5 | 2847.9 | 2093.3 | 1821.8 | 1739.4 | 1730.1 | 1733.8 | 1730.1 |
| 5602.1 | 17.5° | 5340.0 | 4935.6 | 3705.4 | 2465.9 | 1834.9 | 1685.1 | 1655.2 | 1662.7 | 1672.0 | 1670.2 |
| 5954.1 | 20° | 5624.6 | 5089.1 | 3463.9 | 2127.0 | 1658.9 | 1587.8 | 1570.9 | 1578.4 | 1585.9 | 1582.1 |
| 6360.4 | 22.5° | 5948.5 | 5253.9 | 3196.1 | 1863.0 | 1541.0 | 1497.9 | 1479.2 | 1481.0 | 1481.0 | 1473.6 |
| 6875.3 | 25° | 6336.1 | 5435.5 | 2915.3 | 1675.8 | 1451.1 | 1417.4 | 1394.9 | 1387.4 | 1376.2 | 1353.7 |
| 7500.7 | 27.5° | 6798.6 | 5628.3 | 2645.7 | 1544.7 | 1379.9 | 1348.1 | 1321.9 | 1303.2 | 1275.1 | 1237.6 |
| 8251.5 | 30° | 7319.1 | 5862.4 | 2417.2 | 1462.3 | 1323.8 | 1291.9 | 1262.0 | 1233.9 | 1192.7 | 1145.9 |
| 9114.7 | 32.5° | 7931.3 | 6113.3 | 2250.6 | 1408.0 | 1273.2 | 1239.5 | 1203.9 | 1170.2 | 1125.3 | 1078.5 |
| 10084.6 | 35° | 8661.6 | 6416.6 | 2153.2 | 1370.6 | 1233.9 | 1189.0 | 1149.6 | 1112.2 | 1078.5 | 1037.3 |
| 11138.7 | 37.5° | 9453.6 | 6738.6 | 2123.3 | 1351.8 | 1207.7 | 1138.4 | 1093.5 | 1067.2 | 1063.5 | 1039.2 |
| 12279.0 | 40° | 10320.5 | 7120.6 | 2145.7 | 1340.6 | 1179.6 | 1089.7 | 1041.0 | 1035.4 | 1044.8 | 1001.7 |
| 13497.9 | 42.5° | 11237.9 | 7573.7 | 2183.2 | 1327.5 | 1140.3 | 1041.0 | 994.2 | 994.2 | 986.7 | 926.8 |
| 14786.1 | 45° | 12230.3 | 8096.1 | 2220.6 | 1295.7 | 1093.5 | 992.4 | 956.8 | 943.7 | 911.8 | 853.8 |
| 16081.8 | 47.5° | 13230.1 | 8627.9 | 2248.7 | 1237.6 | 1037.3 | 951.2 | 919.3 | 889.4 | 842.6 | 790.1 |
| 17353.1 | 50° | 14179.4 | 9105.3 | 2218.8 | 1151.5 | 973.6 | 911.8 | 878.1 | 836.9 | 786.4 | 750.8 |
| 18557.0 | 52.5° | 15027.6 | 9519.1 | 2091.4 | 1050.4 | 906.2 | 870.7 | 840.7 | 797.6 | 756.4 | 719.0 |
| 19643.0 | 55° | 15765.3 | 9854.3 | 1866.7 | 954.9 | 846.3 | 835.1 | 805.1 | 750.8 | 694.6 | 662.8 |
| 20719.6 | 57.5° | 16473.1 | 10108.9 | 1585.9 | 876.3 | 792.0 | 795.8 | 750.8 | 702.1 | 649.7 | 616.0 |
| 22170.7 | 60° | 17414.9 | 10449.7 | 1301.3 | 803.2 | 734.0 | 745.2 | 696.5 | 660.9 | 595.4 | 552.3 |
| 24659.1 | 62.5° | 18920.3 | 10979.6 | 1033.5 | 713.4 | 666.6 | 670.3 | 649.7 | 606.6 | 528.0 | 477.5 |
| 26503.3 | 65° | 20114.8 | 10784.8 | 814.5 | 616.0 | 589.8 | 595.4 | 595.4 | 548.6 | 464.3 | 406.3 |
| 26602.6 | 67.5° | 19980.0 | 9234.5 | 649.7 | 520.5 | 516.8 | 520.5 | 533.6 | 494.3 | 411.9 | 365.1 |
| 24576.7 | 70° | 18405.4 | 7345.3 | 520.5 | 432.5 | 449.4 | 440.0 | 477.5 | 451.2 | 370.7 | 323.9 |
| 19053.2 | 72.5° | 15018.2 | 5291.3 | 396.9 | 357.6 | 344.5 | 359.5 | 430.6 | 406.3 | 308.9 | 256.5 |
| 10092.1 | 75° | 8775.8 | 2823.5 | 295.8 | 282.7 | 249.0 | 299.6 | 382.0 | 346.4 | 235.9 | 189.1 |
| 3093.1 | 77.5° | 2857.2 | 984.9 | 217.2 | 207.8 | 185.4 | 241.5 | 325.8 | 292.1 | 192.9 | 149.8 |
| 906.2 | 80° | 765.8 | 297.7 | 147.9 | 136.7 | 119.8 | 179.7 | 258.4 | 232.2 | 138.6 | 97.4 |
| 389.5 | 82.5° | 307.1 | 125.4 | 86.1 | 76.8 | 65.5 | 123.6 | 204.1 | 187.2 | 103.0 | 61.8 |
| 121.7 | 85° | 99.2 | 41.2 | 31.8 | 24.3 | 30.0 | 76.8 | 121.7 | 127.3 | 73.0 | 31.8 |
| 18.7 | 87.5° | 13.1 | 5.6 | 5.6 | 7.5 | 5.6 | 13.1 | 37.4 | 35.6 | 20.6 | 3.7 |
| 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° |
|--------|
| 4308.3 |
| 3799.0 |
| 3074.4 |
| 2377.9 |
| 1941.6 |
| 1782.5 |
| 1728.2 |
| 1666.4 |
| 1580.3 |
| 1469.8 |
| 1350.0 |
| 1233.9 |
| 1142.1 |
| 1080.4 |
| 1033.5 |
| 1037.3 |
| 1003.6 |
| 926.8 |
| 851.9 |
| 788.3 |
| 745.2 |
| 715.2 |
| 659.1 |
| 612.3 |
| 546.7 |
| 473.7 |
| 400.7 |
| 357.6 |
| 318.3 |
| 250.9 |
| 183.5 |
| 144.2 |
| 95.5 |
| 61.8 |
| 24.3 |
| 0.0 |
| 0.0 |

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