

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: P849005

Luminaire Tested: **GLAN-SB5D-830-U-T2-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P849005
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-SB5D-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 900mA 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: 32230 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

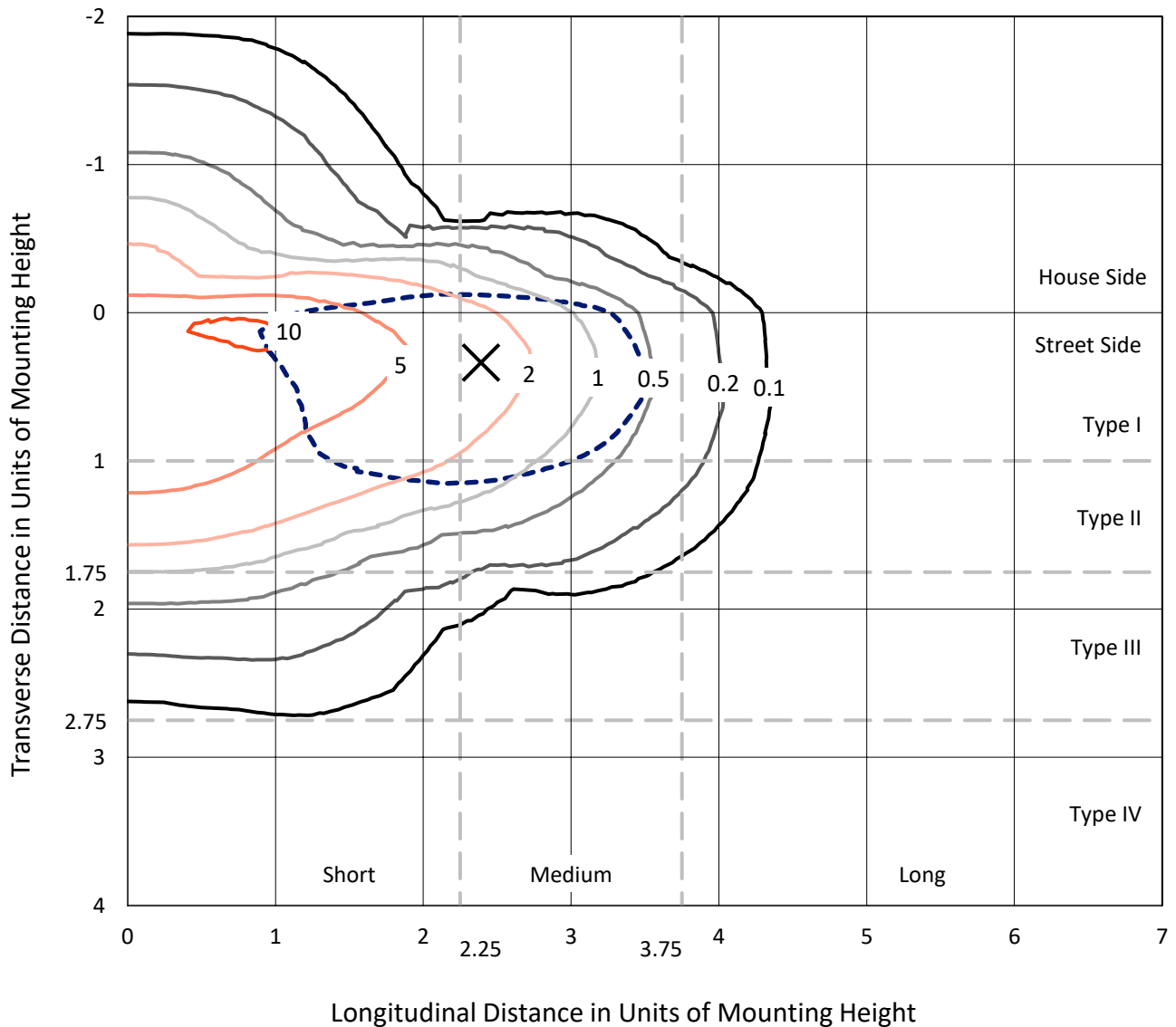
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

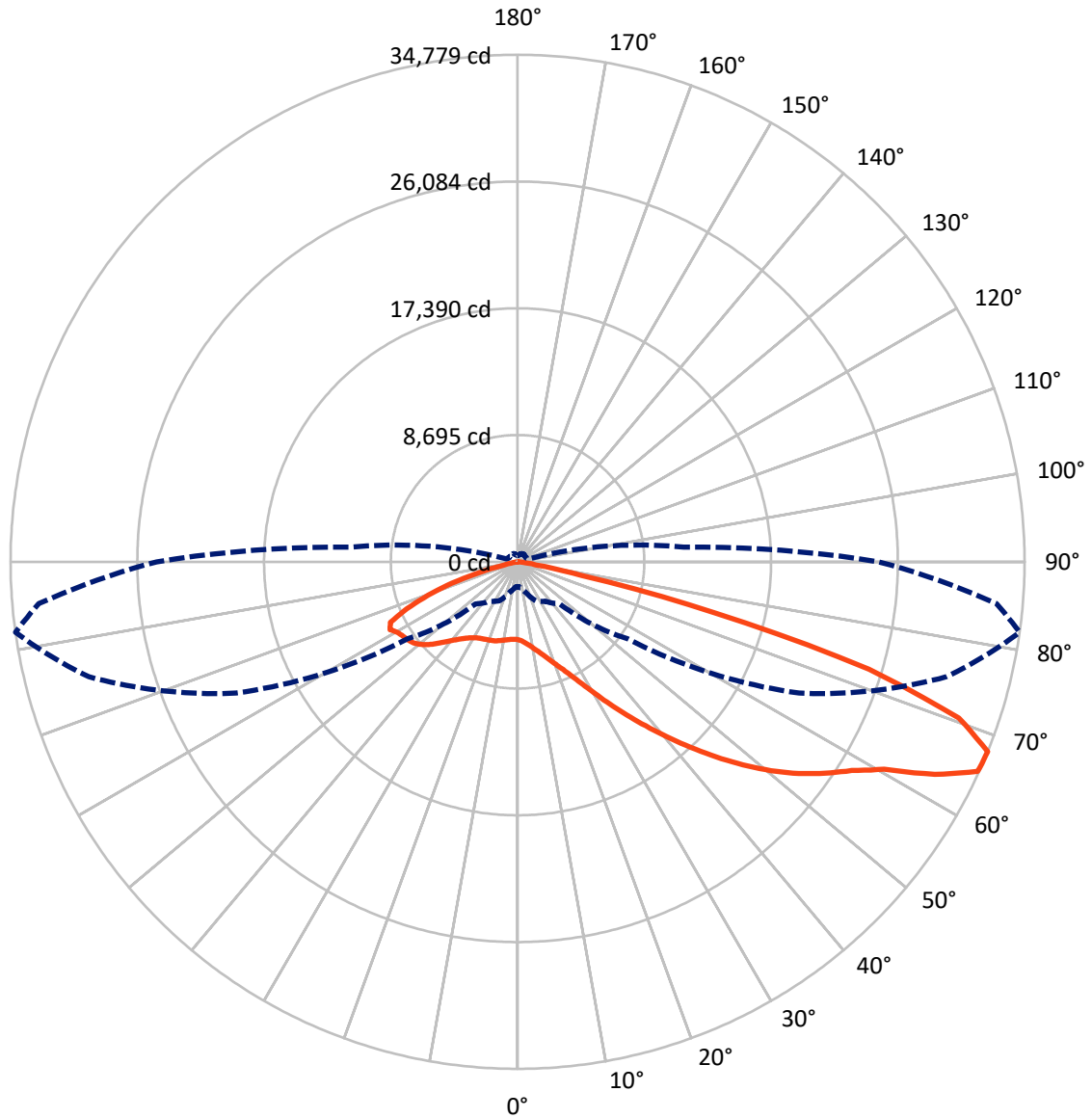
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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 | 5838.2 | 0.0 | 5838.2 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 26391.8 | 0.0 | 26391.8 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 32230.0 | 0.0 | 32230.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 475.7 | 1.5 |
| 10°-20° | 1236.2 | 3.8 |
| 20°-30° | 1979.9 | 6.1 |
| 30°-40° | 3501.1 | 10.9 |
| 40°-50° | 6134.3 | 19.0 |
| 50°-60° | 8181.5 | 25.4 |
| 60°-70° | 7616.5 | 23.6 |
| 70°-80° | 2923.2 | 9.1 |
| 80°-90° | 181.6 | 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° | 32230.0 | 100.0 |
| 0°-180° | 32230.0 | 100.0 |

Coefficient of Utilization

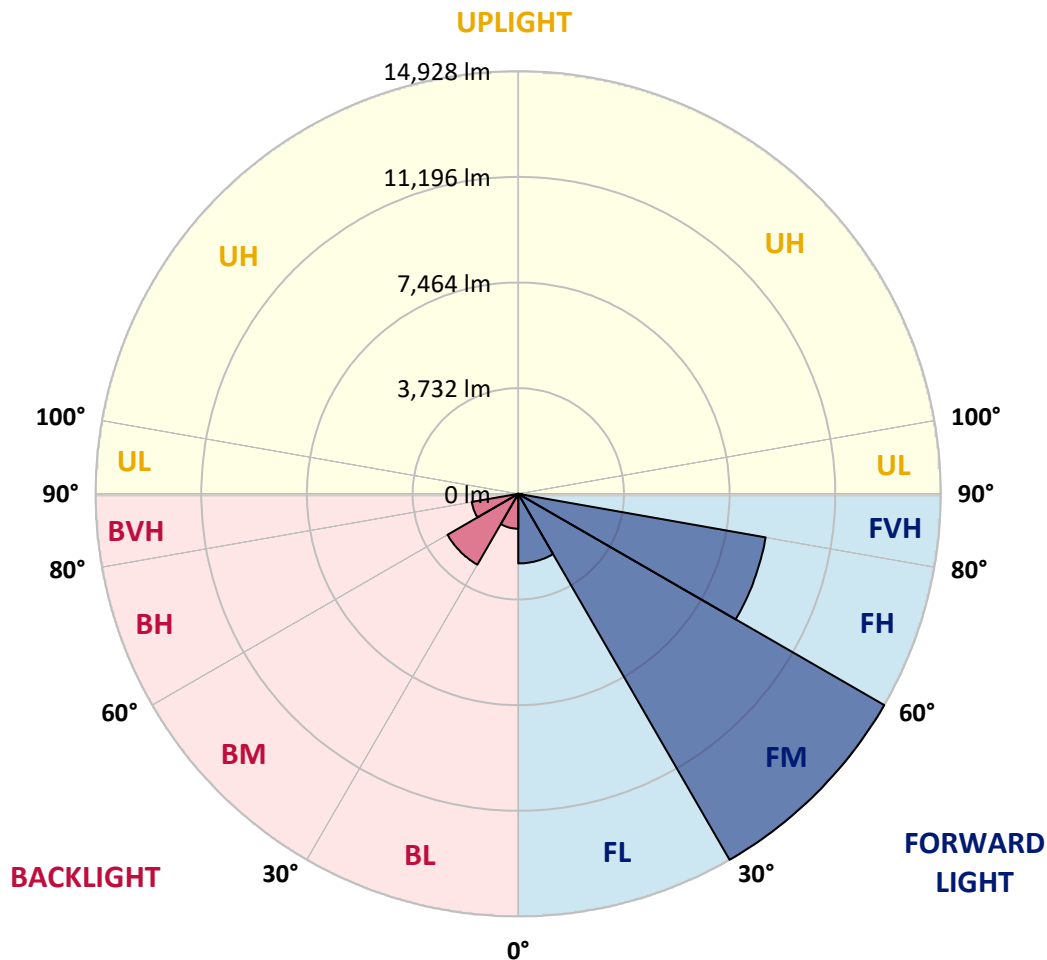


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2458.8 | 7.6 | | | |
| FM (30°-60°) | 14927.6 | 46.3 | | | |
| FH (60°-80°) | 8873.4 | 27.5 | | | G4/12000 |
| FVH (80°-90°) | 132.0 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1233.0 | 3.8 | B3/2500 | | |
| BM (30°-60°) | 2889.3 | 9.0 | B3/5000 | | |
| BH (60°-80°) | 1666.3 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 49.6 | 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° | 5339.4 | 5339.4 | 5339.4 | 5339.4 | 5339.4 | 5339.4 | 5339.4 | 5339.4 | 5339.4 | 5339.4 |
| 2.5° | 5643.4 | 5675.9 | 5657.3 | 5648.0 | 5631.8 | 5608.6 | 5590.0 | 5532.0 | 5471.7 | 5432.2 |
| 5° | 5757.1 | 5789.6 | 5787.3 | 5796.6 | 5808.2 | 5815.1 | 5810.5 | 5745.5 | 5659.6 | 5592.4 |
| 7.5° | 5659.6 | 5696.8 | 5726.9 | 5773.3 | 5854.6 | 5940.4 | 5982.2 | 5968.3 | 5880.1 | 5787.3 |
| 10° | 5383.5 | 5423.0 | 5494.9 | 5604.0 | 5775.7 | 5961.3 | 6116.8 | 6188.7 | 6133.0 | 6030.9 |
| 12.5° | 4877.6 | 4917.1 | 5058.6 | 5295.3 | 5583.1 | 5905.6 | 6202.6 | 6395.2 | 6409.2 | 6307.1 |
| 15° | 4309.1 | 4348.6 | 4499.4 | 4796.4 | 5235.0 | 5752.5 | 6249.0 | 6613.4 | 6736.3 | 6648.2 |
| 17.5° | 3956.4 | 3991.2 | 4104.9 | 4343.9 | 4801.1 | 5446.2 | 6232.8 | 6845.4 | 7126.2 | 7056.6 |
| 20° | 3849.7 | 3879.8 | 3933.2 | 4100.3 | 4480.8 | 5128.3 | 6126.1 | 7063.5 | 7546.2 | 7506.7 |
| 22.5° | 3963.4 | 3991.2 | 4007.5 | 4081.7 | 4320.7 | 4919.4 | 5991.5 | 7286.3 | 8033.5 | 8038.1 |
| 25° | 4225.6 | 4253.4 | 4234.9 | 4281.3 | 4385.7 | 4854.4 | 5940.4 | 7548.5 | 8646.1 | 8697.2 |
| 27.5° | 4657.2 | 4659.5 | 4615.4 | 4613.1 | 4629.4 | 4951.9 | 5993.8 | 7829.3 | 9418.8 | 9514.0 |
| 30° | 5522.7 | 5487.9 | 5318.5 | 5135.2 | 5051.7 | 5244.3 | 6142.3 | 8161.1 | 10330.8 | 10500.2 |
| 32.5° | 6857.0 | 6806.0 | 6495.0 | 6056.4 | 5615.6 | 5715.3 | 6409.2 | 8539.4 | 11323.9 | 11630.2 |
| 35° | 8305.0 | 8291.1 | 7966.2 | 7314.1 | 6543.7 | 6386.0 | 6843.1 | 9035.9 | 12407.6 | 12894.9 |
| 37.5° | 9650.9 | 9643.9 | 9458.3 | 8690.2 | 7752.7 | 7321.1 | 7539.2 | 9685.7 | 13567.8 | 14273.3 |
| 40° | 10880.7 | 10901.6 | 10716.0 | 10029.1 | 9084.7 | 8520.8 | 8486.0 | 10488.6 | 14858.0 | 15774.6 |
| 42.5° | 11943.5 | 11966.7 | 11778.7 | 11270.6 | 10400.4 | 9848.1 | 9648.5 | 11472.4 | 16118.0 | 17387.3 |
| 45° | 12665.2 | 12809.0 | 12781.2 | 12375.1 | 11750.9 | 11177.7 | 11045.5 | 12706.9 | 17554.4 | 19097.5 |
| 47.5° | 12869.4 | 13001.6 | 13210.5 | 13266.2 | 12885.6 | 12321.7 | 12479.5 | 14194.4 | 19007.0 | 20810.0 |
| 50° | 12365.8 | 12488.8 | 12922.7 | 13500.5 | 13765.1 | 13591.0 | 13874.1 | 15788.5 | 20494.5 | 22517.9 |
| 52.5° | 11372.7 | 11498.0 | 12045.6 | 12959.9 | 14038.9 | 14586.5 | 15273.4 | 17359.5 | 21935.5 | 24135.3 |
| 55° | 9936.3 | 10068.6 | 10771.7 | 11806.6 | 13516.8 | 14997.3 | 16440.6 | 18928.1 | 23255.8 | 25590.2 |
| 57.5° | 7982.4 | 8079.9 | 8810.9 | 10258.8 | 12203.4 | 14588.8 | 17301.5 | 20640.7 | 24499.6 | 27019.6 |
| 60° | 5202.5 | 5288.4 | 6137.7 | 7752.7 | 10026.8 | 13224.4 | 17473.2 | 22550.4 | 26151.8 | 28878.4 |
| 62.5° | 3459.8 | 3517.8 | 4021.4 | 5207.2 | 7061.2 | 10604.6 | 16468.4 | 24075.0 | 28574.4 | 32113.1 |
| 65° | 2373.8 | 2431.9 | 2935.4 | 3761.5 | 4562.1 | 7014.8 | 13579.4 | 23873.1 | 30769.5 | 34681.9 |
| 67.5° | 1693.9 | 1742.7 | 2169.6 | 2949.3 | 3302.0 | 4074.8 | 9205.3 | 21292.7 | 30454.0 | 34779.3 |
| 70° | 1213.6 | 1241.5 | 1594.2 | 2297.3 | 2624.5 | 2448.1 | 5119.0 | 16285.1 | 26664.6 | 32115.4 |
| 72.5° | 849.3 | 858.6 | 1106.9 | 1749.6 | 2114.0 | 1786.8 | 2436.5 | 10857.5 | 20167.3 | 25207.4 |
| 75° | 575.5 | 587.1 | 744.9 | 1283.2 | 1696.3 | 1364.4 | 1290.2 | 5822.1 | 11839.1 | 13953.0 |
| 77.5° | 352.7 | 357.4 | 480.3 | 877.1 | 1269.3 | 1039.6 | 830.7 | 2466.7 | 4580.6 | 4497.1 |
| 80° | 199.6 | 199.6 | 306.3 | 545.3 | 865.5 | 670.6 | 582.4 | 1048.9 | 1450.3 | 1273.9 |
| 82.5° | 111.4 | 113.7 | 222.8 | 338.8 | 573.2 | 396.8 | 320.2 | 485.0 | 626.5 | 554.6 |
| 85° | 46.4 | 51.1 | 136.9 | 160.1 | 273.8 | 197.2 | 129.9 | 204.2 | 232.0 | 206.5 |
| 87.5° | 4.6 | 7.0 | 41.8 | 30.2 | 32.5 | 39.4 | 18.6 | 39.4 | 32.5 | 32.5 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5339.4 | 0° | 5339.4 | 5339.4 | 5339.4 | 5339.4 | 5339.4 | 5339.4 | 5339.4 | 5339.4 | 5339.4 | 5339.4 |
| 5418.3 | 2.5° | 5374.2 | 5339.4 | 5251.2 | 5149.1 | 5014.6 | 4949.6 | 4861.4 | 4801.1 | 4750.0 | 4754.7 |
| 5552.9 | 5° | 5478.6 | 5390.5 | 5193.2 | 4947.3 | 4641.0 | 4422.8 | 4190.8 | 4030.7 | 3900.7 | 3872.9 |
| 5738.5 | 7.5° | 5622.5 | 5483.3 | 5137.5 | 4694.3 | 4176.9 | 3784.7 | 3434.3 | 3209.2 | 3049.1 | 2998.1 |
| 5963.6 | 10° | 5808.2 | 5606.3 | 5065.6 | 4376.4 | 3631.5 | 3132.6 | 2756.7 | 2580.4 | 2471.3 | 2434.2 |
| 6228.2 | 12.5° | 6024.0 | 5747.8 | 4970.5 | 3988.9 | 3070.0 | 2589.7 | 2350.6 | 2262.5 | 2227.7 | 2216.1 |
| 6553.0 | 15° | 6295.5 | 5924.2 | 4826.6 | 3529.4 | 2594.3 | 2257.8 | 2155.7 | 2144.1 | 2148.8 | 2144.1 |
| 6942.9 | 17.5° | 6618.0 | 6116.8 | 4592.2 | 3056.1 | 2274.1 | 2088.4 | 2051.3 | 2060.6 | 2072.2 | 2069.9 |
| 7379.1 | 20° | 6970.7 | 6307.1 | 4292.9 | 2636.1 | 2055.9 | 1967.8 | 1946.9 | 1956.2 | 1965.4 | 1960.8 |
| 7882.7 | 22.5° | 7372.2 | 6511.3 | 3961.1 | 2308.9 | 1909.8 | 1856.4 | 1833.2 | 1835.5 | 1835.5 | 1826.2 |
| 8520.8 | 25° | 7852.5 | 6736.3 | 3613.0 | 2076.8 | 1798.4 | 1756.6 | 1728.8 | 1719.5 | 1705.6 | 1677.7 |
| 9295.8 | 27.5° | 8425.7 | 6975.4 | 3278.8 | 1914.4 | 1710.2 | 1670.7 | 1638.3 | 1615.1 | 1580.2 | 1533.8 |
| 10226.3 | 30° | 9070.7 | 7265.4 | 2995.7 | 1812.3 | 1640.6 | 1601.1 | 1564.0 | 1529.2 | 1478.1 | 1420.1 |
| 11296.1 | 32.5° | 9829.5 | 7576.4 | 2789.2 | 1745.0 | 1577.9 | 1536.2 | 1492.1 | 1450.3 | 1394.6 | 1336.6 |
| 12498.1 | 35° | 10734.5 | 7952.3 | 2668.5 | 1698.6 | 1529.2 | 1473.5 | 1424.8 | 1378.4 | 1336.6 | 1285.5 |
| 13804.5 | 37.5° | 11716.1 | 8351.4 | 2631.4 | 1675.4 | 1496.7 | 1410.9 | 1355.2 | 1322.7 | 1318.0 | 1287.9 |
| 15217.7 | 40° | 12790.5 | 8824.8 | 2659.3 | 1661.5 | 1461.9 | 1350.5 | 1290.2 | 1283.2 | 1294.8 | 1241.5 |
| 16728.3 | 42.5° | 13927.5 | 9386.3 | 2705.7 | 1645.2 | 1413.2 | 1290.2 | 1232.2 | 1232.2 | 1222.9 | 1148.6 |
| 18324.8 | 45° | 15157.4 | 10033.7 | 2752.1 | 1605.8 | 1355.2 | 1229.9 | 1185.8 | 1169.5 | 1130.1 | 1058.1 |
| 19930.6 | 47.5° | 16396.5 | 10692.8 | 2786.9 | 1533.8 | 1285.5 | 1178.8 | 1139.4 | 1102.2 | 1044.2 | 979.2 |
| 21506.2 | 50° | 17573.0 | 11284.5 | 2749.8 | 1427.1 | 1206.6 | 1130.1 | 1088.3 | 1037.3 | 974.6 | 930.5 |
| 22998.3 | 52.5° | 18624.2 | 11797.3 | 2592.0 | 1301.8 | 1123.1 | 1079.0 | 1041.9 | 988.5 | 937.5 | 891.1 |
| 24344.1 | 55° | 19538.4 | 12212.7 | 2313.5 | 1183.4 | 1048.9 | 1034.9 | 997.8 | 930.5 | 860.9 | 821.4 |
| 25678.4 | 57.5° | 20415.6 | 12528.3 | 1965.4 | 1086.0 | 981.6 | 986.2 | 930.5 | 870.2 | 805.2 | 763.4 |
| 27476.8 | 60° | 21582.8 | 12950.6 | 1612.7 | 995.5 | 909.6 | 923.6 | 863.2 | 819.1 | 737.9 | 684.5 |
| 30560.7 | 62.5° | 23448.4 | 13607.3 | 1280.9 | 884.1 | 826.1 | 830.7 | 805.2 | 751.8 | 654.4 | 591.7 |
| 32846.4 | 65° | 24928.9 | 13366.0 | 1009.4 | 763.4 | 731.0 | 737.9 | 737.9 | 679.9 | 575.5 | 503.5 |
| 32969.4 | 67.5° | 24761.8 | 11444.6 | 805.2 | 645.1 | 640.5 | 645.1 | 661.3 | 612.6 | 510.5 | 452.5 |
| 30458.6 | 70° | 22810.3 | 9103.2 | 645.1 | 536.0 | 556.9 | 545.3 | 591.7 | 559.2 | 459.5 | 401.4 |
| 23613.2 | 72.5° | 18612.6 | 6557.7 | 491.9 | 443.2 | 427.0 | 445.5 | 533.7 | 503.5 | 382.9 | 317.9 |
| 12507.4 | 75° | 10876.1 | 3499.3 | 366.6 | 350.4 | 308.6 | 371.3 | 473.4 | 429.3 | 292.4 | 234.4 |
| 3833.4 | 77.5° | 3541.0 | 1220.6 | 269.2 | 257.6 | 229.7 | 299.3 | 403.8 | 362.0 | 239.0 | 185.6 |
| 1123.1 | 80° | 949.1 | 369.0 | 183.3 | 169.4 | 148.5 | 222.8 | 320.2 | 287.7 | 171.7 | 120.7 |
| 482.7 | 82.5° | 380.6 | 155.5 | 106.7 | 95.1 | 81.2 | 153.2 | 252.9 | 232.0 | 127.6 | 76.6 |
| 150.8 | 85° | 123.0 | 51.1 | 39.4 | 30.2 | 37.1 | 95.1 | 150.8 | 157.8 | 90.5 | 39.4 |
| 23.2 | 87.5° | 16.2 | 7.0 | 7.0 | 9.3 | 7.0 | 16.2 | 46.4 | 44.1 | 25.5 | 4.6 |
| 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° |
|--------|
| 5339.4 |
| 4708.3 |
| 3810.2 |
| 2947.0 |
| 2406.3 |
| 2209.1 |
| 2141.8 |
| 2065.2 |
| 1958.5 |
| 1821.6 |
| 1673.1 |
| 1529.2 |
| 1415.5 |
| 1338.9 |
| 1280.9 |
| 1285.5 |
| 1243.8 |
| 1148.6 |
| 1055.8 |
| 976.9 |
| 923.6 |
| 886.4 |
| 816.8 |
| 758.8 |
| 677.6 |
| 587.1 |
| 496.6 |
| 443.2 |
| 394.5 |
| 310.9 |
| 227.4 |
| 178.7 |
| 118.3 |
| 76.6 |
| 30.2 |
| 0.0 |
| 0.0 |

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