

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: P848938

Luminaire Tested: **GLAN-SB5D-727-U-T3**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB5D-727-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45745 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

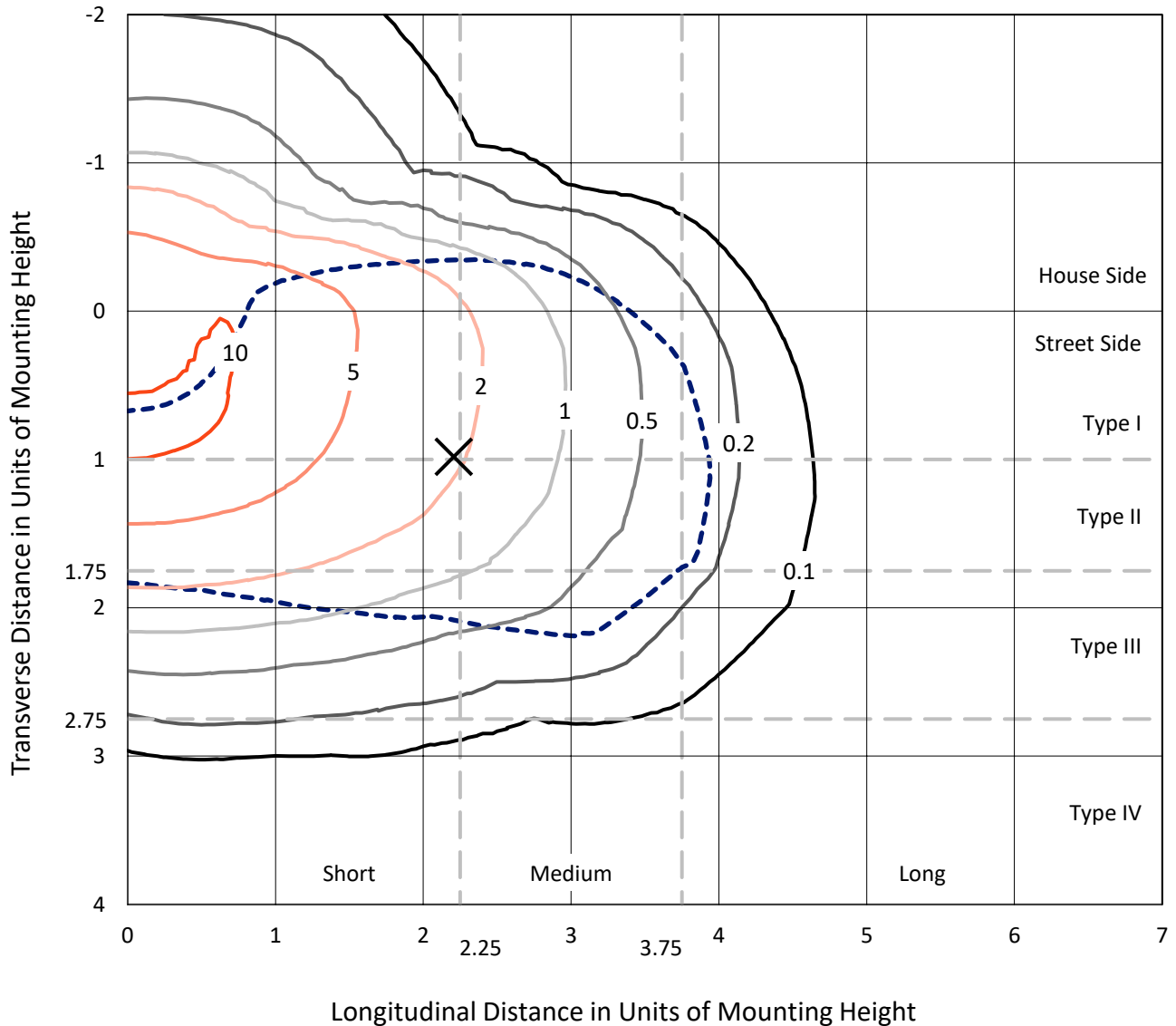
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

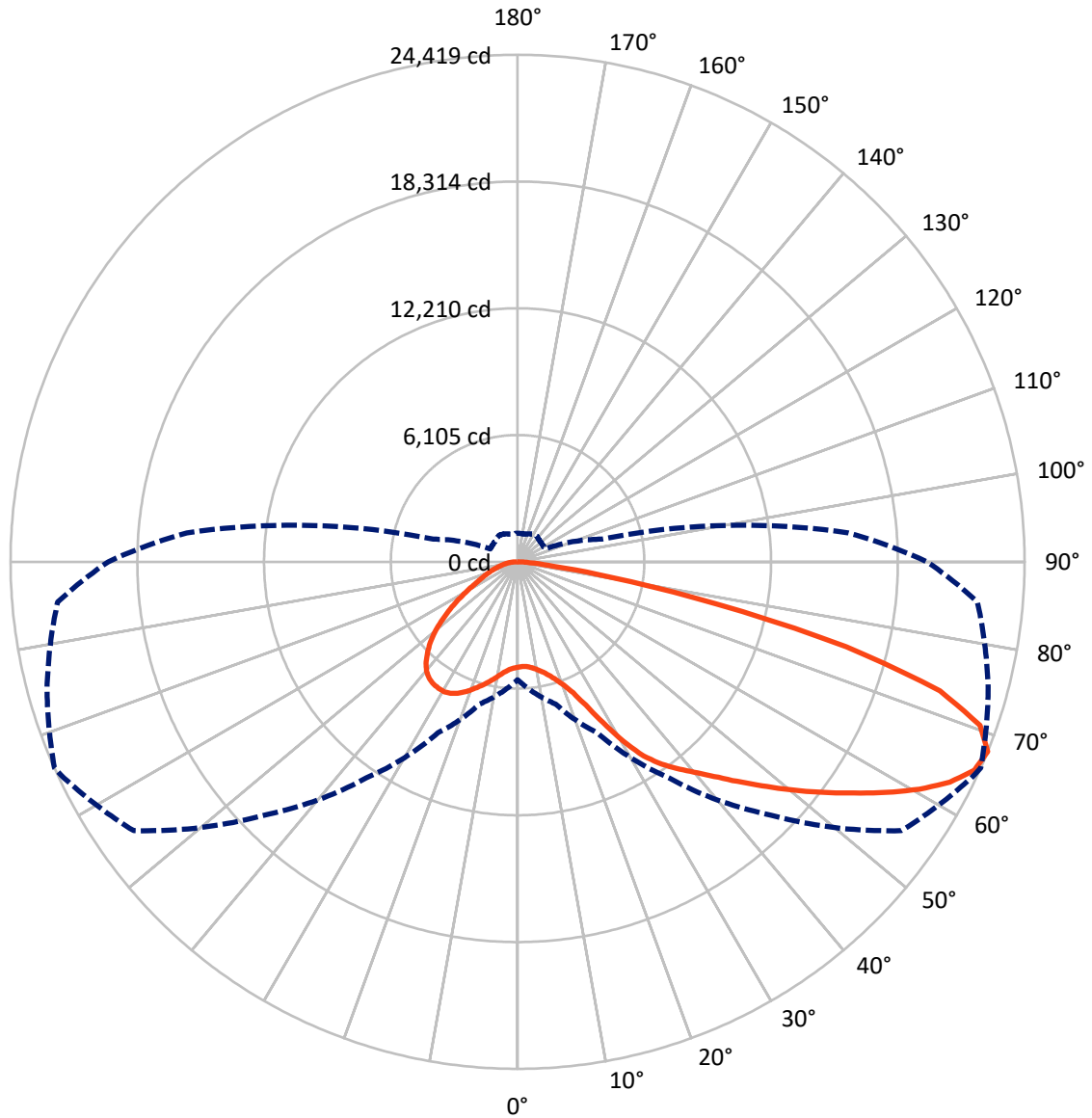
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11374.4 | 0.0 | 11374.4 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 34370.6 | 0.0 | 34370.6 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 45745.0 | 0.0 | 45745.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 503.0 | 1.1 |
| 10°-20° | 1662.0 | 3.6 |
| 20°-30° | 3203.4 | 7.0 |
| 30°-40° | 5616.7 | 12.3 |
| 40°-50° | 8350.2 | 18.3 |
| 50°-60° | 10584.7 | 23.1 |
| 60°-70° | 10356.8 | 22.6 |
| 70°-80° | 4940.3 | 10.8 |
| 80°-90° | 528.0 | 1.2 |
| 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° | 45745.0 | 100.0 |
| 0°-180° | 45745.0 | 100.0 |

Coefficient of Utilization



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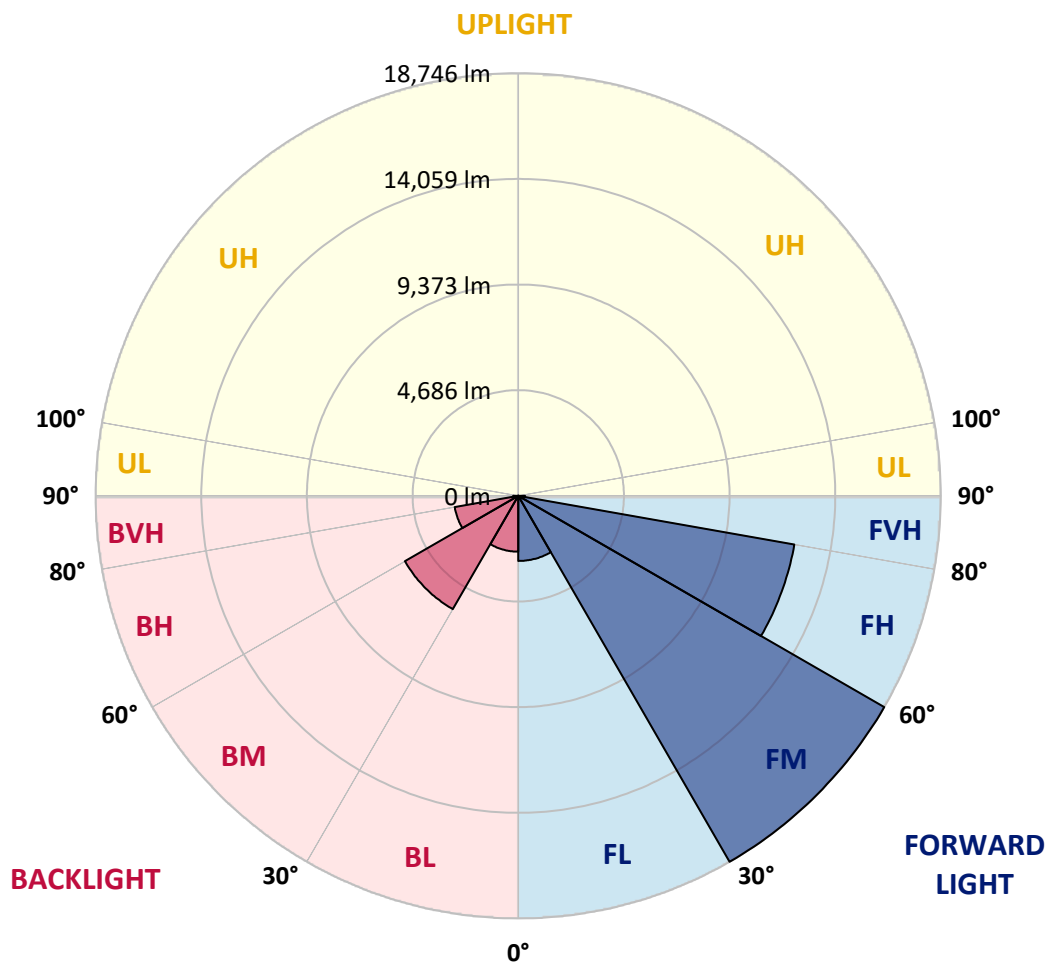
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2890.6 | 6.3 | | | |
| FM (30°-60°) | 18745.9 | 41.0 | | | |
| FH (60°-80°) | 12434.7 | 27.2 | | | G5 |
| FVH (80°-90°) | 299.3 | 0.7 | | | G3/500 |
| BL (0°-30°) | 2477.7 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 5805.6 | 12.7 | B4/8500 | | |
| BH (60°-80°) | 2862.4 | 6.3 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 228.6 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5073.7 | 5073.7 | 5073.7 | 5073.7 | 5073.7 | 5073.7 | 5073.7 | 5073.7 | 5073.7 | 5073.7 |
| 2.5° | 5020.8 | 5049.7 | 5042.5 | 5030.5 | 5028.1 | 5032.9 | 5040.1 | 5047.3 | 5044.9 | 5056.9 |
| 5° | 5006.4 | 5035.3 | 5032.9 | 5032.9 | 5042.5 | 5061.7 | 5073.7 | 5085.7 | 5073.7 | 5088.1 |
| 7.5° | 5016.0 | 5037.7 | 5047.3 | 5056.9 | 5080.9 | 5117.0 | 5145.8 | 5172.3 | 5157.8 | 5174.7 |
| 10° | 5138.6 | 5155.4 | 5165.1 | 5165.1 | 5181.9 | 5222.7 | 5251.6 | 5299.7 | 5287.6 | 5314.1 |
| 12.5° | 5362.1 | 5379.0 | 5379.0 | 5369.4 | 5381.4 | 5407.8 | 5417.4 | 5470.3 | 5448.7 | 5491.9 |
| 15° | 5636.1 | 5669.8 | 5643.3 | 5626.5 | 5631.3 | 5657.8 | 5655.4 | 5696.2 | 5674.6 | 5710.6 |
| 17.5° | 5939.0 | 5982.2 | 5939.0 | 5936.6 | 5927.0 | 5955.8 | 5958.2 | 5994.3 | 5955.8 | 5982.2 |
| 20° | 6297.1 | 6357.2 | 6321.1 | 6333.1 | 6311.5 | 6323.5 | 6335.5 | 6388.4 | 6328.3 | 6347.6 |
| 22.5° | 6801.8 | 6873.9 | 6835.5 | 6881.1 | 6866.7 | 6857.1 | 6854.7 | 6948.4 | 6854.7 | 6861.9 |
| 25° | 7537.3 | 7623.8 | 7556.5 | 7619.0 | 7619.0 | 7650.2 | 7686.3 | 7806.5 | 7650.2 | 7604.6 |
| 27.5° | 8623.7 | 8710.2 | 8578.0 | 8616.4 | 8604.4 | 8681.3 | 8642.9 | 8940.9 | 8772.7 | 8698.2 |
| 30° | 9931.1 | 10085.0 | 9835.0 | 9825.4 | 9813.4 | 9935.9 | 9991.2 | 10188.3 | 10017.7 | 9943.2 |
| 32.5° | 11344.4 | 11505.4 | 11207.4 | 11120.9 | 11075.2 | 11149.7 | 11104.0 | 11262.7 | 11144.9 | 11029.5 |
| 35° | 12839.3 | 12998.0 | 12714.4 | 12546.1 | 12363.4 | 12207.2 | 12043.8 | 12084.6 | 11974.1 | 11798.6 |
| 37.5° | 14252.6 | 14543.4 | 14243.0 | 14062.7 | 13726.2 | 13421.0 | 12964.3 | 12774.4 | 12671.1 | 12510.1 |
| 40° | 15692.3 | 15858.1 | 15629.8 | 15475.9 | 15110.6 | 14632.3 | 13901.7 | 13500.3 | 13360.9 | 13204.7 |
| 42.5° | 16752.2 | 16910.8 | 16788.2 | 16682.5 | 16396.5 | 15841.3 | 14896.7 | 14394.4 | 14192.5 | 14017.0 |
| 45° | 17593.4 | 17711.2 | 17634.3 | 17672.7 | 17550.1 | 17011.8 | 15927.8 | 15353.4 | 15144.3 | 14930.4 |
| 47.5° | 17932.3 | 18057.3 | 18179.8 | 18408.2 | 18617.3 | 18220.7 | 17035.8 | 16391.7 | 16170.5 | 15951.8 |
| 50° | 17893.8 | 18021.2 | 18376.9 | 18862.4 | 19511.4 | 19379.2 | 18203.9 | 17497.3 | 17293.0 | 17043.0 |
| 52.5° | 17586.2 | 17730.4 | 18187.1 | 18994.6 | 20028.1 | 20246.8 | 19393.6 | 18638.9 | 18446.6 | 18148.6 |
| 55° | 16778.6 | 16865.1 | 17550.1 | 18694.2 | 20150.7 | 20852.5 | 20559.3 | 19855.1 | 19662.8 | 19247.0 |
| 57.5° | 15281.3 | 15406.2 | 16403.7 | 17884.2 | 19843.0 | 21263.5 | 21583.2 | 21133.7 | 20948.6 | 20350.2 |
| 60° | 13327.2 | 13526.7 | 14668.4 | 16523.9 | 19059.5 | 21261.1 | 22513.3 | 22390.7 | 22236.9 | 21436.5 |
| 62.5° | 11116.0 | 11346.8 | 12445.2 | 14601.1 | 17689.5 | 20657.8 | 23094.9 | 23443.4 | 23364.1 | 22438.8 |
| 65° | 8537.1 | 8695.8 | 9789.3 | 12113.5 | 15557.7 | 19362.4 | 23162.2 | 24162.1 | 24176.5 | 23200.7 |
| 67.5° | 5684.2 | 6140.9 | 7090.2 | 9089.9 | 12702.3 | 17244.9 | 22571.0 | 24279.9 | 24419.3 | 23462.7 |
| 70° | 2773.6 | 3374.5 | 4304.6 | 5907.7 | 9089.9 | 13997.8 | 21025.6 | 23313.7 | 23623.7 | 22698.4 |
| 72.5° | 1151.3 | 1345.9 | 1853.1 | 2915.4 | 5217.9 | 9445.6 | 17920.3 | 20693.9 | 21268.3 | 20112.2 |
| 75° | 776.3 | 841.2 | 1059.9 | 1495.0 | 2377.0 | 4657.9 | 12923.5 | 15430.3 | 16355.6 | 15189.9 |
| 77.5° | 598.5 | 639.3 | 771.5 | 1045.5 | 1413.2 | 1761.7 | 6917.2 | 9299.0 | 9777.3 | 9051.5 |
| 80° | 471.1 | 502.3 | 576.8 | 761.9 | 1002.2 | 942.2 | 2357.8 | 4213.3 | 4489.7 | 3766.2 |
| 82.5° | 408.6 | 420.6 | 413.4 | 516.7 | 665.8 | 550.4 | 773.9 | 1555.0 | 1716.1 | 1245.0 |
| 85° | 295.6 | 329.3 | 343.7 | 319.7 | 353.3 | 278.8 | 317.3 | 550.4 | 605.7 | 540.8 |
| 87.5° | 120.2 | 177.9 | 218.7 | 206.7 | 129.8 | 79.3 | 98.5 | 161.0 | 185.1 | 201.9 |
| 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° |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 5073.7 | 0° | 5073.7 | 5073.7 | 5073.7 | 5073.7 | 5073.7 | 5073.7 | 5073.7 | 5073.7 | 5073.7 | 5073.7 |
| 5076.1 | 2.5° | 5078.5 | 5095.4 | 5107.4 | 5121.8 | 5131.4 | 5145.8 | 5174.7 | 5191.5 | 5193.9 | 5205.9 |
| 5114.6 | 5° | 5124.2 | 5148.2 | 5174.7 | 5213.1 | 5256.4 | 5292.4 | 5347.7 | 5386.2 | 5400.6 | 5412.6 |
| 5208.3 | 7.5° | 5222.7 | 5256.4 | 5304.5 | 5371.8 | 5434.2 | 5482.3 | 5549.6 | 5595.3 | 5640.9 | 5657.8 |
| 5357.3 | 10° | 5369.4 | 5417.4 | 5487.1 | 5578.5 | 5645.8 | 5708.2 | 5777.9 | 5816.4 | 5862.1 | 5881.3 |
| 5535.2 | 12.5° | 5552.0 | 5602.5 | 5693.8 | 5821.2 | 5883.7 | 5927.0 | 5951.0 | 5941.4 | 5951.0 | 5967.8 |
| 5749.1 | 15° | 5761.1 | 5816.4 | 5919.7 | 6056.7 | 6100.0 | 6061.6 | 6008.7 | 5960.6 | 5953.4 | 5958.2 |
| 6008.7 | 17.5° | 6008.7 | 6049.5 | 6169.7 | 6285.1 | 6253.8 | 6095.2 | 5979.8 | 5902.9 | 5864.5 | 5852.4 |
| 6340.4 | 20° | 6354.8 | 6354.8 | 6453.3 | 6525.4 | 6316.3 | 6047.1 | 5866.9 | 5741.9 | 5662.6 | 5628.9 |
| 6792.2 | 22.5° | 6775.4 | 6736.9 | 6799.4 | 6748.9 | 6304.3 | 5912.5 | 5662.6 | 5446.3 | 5326.1 | 5278.0 |
| 7424.3 | 25° | 7309.0 | 7263.3 | 7246.5 | 6934.0 | 6217.8 | 5698.6 | 5292.4 | 5030.5 | 4924.7 | 4898.3 |
| 8335.2 | 27.5° | 8114.1 | 7998.7 | 7780.0 | 7035.0 | 6059.1 | 5362.1 | 4859.8 | 4617.1 | 4557.0 | 4559.4 |
| 9505.7 | 30° | 9186.1 | 8955.3 | 8419.4 | 7051.8 | 5799.6 | 4886.3 | 4417.6 | 4244.5 | 4215.7 | 4227.7 |
| 10488.7 | 32.5° | 10178.7 | 9960.0 | 9073.1 | 6974.9 | 5400.6 | 4420.0 | 4021.0 | 3905.6 | 3862.4 | 3876.8 |
| 11238.6 | 35° | 10957.4 | 10897.3 | 9678.8 | 6866.7 | 4910.3 | 3982.5 | 3665.3 | 3566.7 | 3482.6 | 3463.4 |
| 11945.2 | 37.5° | 11692.9 | 11668.8 | 10133.0 | 6715.3 | 4424.8 | 3672.5 | 3379.3 | 3249.5 | 3126.9 | 3059.6 |
| 12726.4 | 40° | 12500.4 | 12476.4 | 10431.1 | 6482.2 | 3994.6 | 3403.3 | 3122.1 | 2951.5 | 2800.0 | 2677.5 |
| 13610.9 | 42.5° | 13409.0 | 13267.2 | 10572.9 | 6148.1 | 3629.2 | 3175.0 | 2913.0 | 2682.3 | 2482.8 | 2369.8 |
| 14610.7 | 45° | 14401.6 | 14081.9 | 10570.5 | 5722.7 | 3321.6 | 2965.9 | 2689.5 | 2362.6 | 2177.5 | 2071.8 |
| 15637.0 | 47.5° | 15454.3 | 14860.7 | 10440.7 | 5251.6 | 3023.6 | 2735.1 | 2343.4 | 2093.4 | 1970.8 | 1906.0 |
| 16752.2 | 50° | 16540.7 | 15588.9 | 10219.6 | 4710.8 | 2718.3 | 2473.2 | 2127.1 | 1956.4 | 1862.7 | 1802.6 |
| 17857.8 | 52.5° | 17562.2 | 16249.9 | 9952.8 | 4097.9 | 2408.3 | 2218.4 | 2030.9 | 1898.7 | 1800.2 | 1732.9 |
| 18929.7 | 55° | 18511.5 | 16819.5 | 9575.4 | 3470.6 | 2155.9 | 2047.8 | 1985.3 | 1874.7 | 1761.7 | 1682.4 |
| 20018.5 | 57.5° | 19355.1 | 17189.6 | 8924.1 | 2881.8 | 1975.7 | 1930.0 | 1937.2 | 1833.8 | 1704.1 | 1636.8 |
| 21090.4 | 60° | 20057.0 | 17461.2 | 7960.3 | 2336.2 | 1829.0 | 1814.6 | 1862.7 | 1756.9 | 1605.5 | 1528.6 |
| 21996.6 | 62.5° | 20477.6 | 17456.4 | 6777.8 | 1913.2 | 1704.1 | 1708.9 | 1764.1 | 1660.8 | 1507.0 | 1434.9 |
| 22470.0 | 65° | 20441.5 | 17028.6 | 5479.9 | 1636.8 | 1583.9 | 1588.7 | 1660.8 | 1555.0 | 1425.3 | 1382.0 |
| 22232.1 | 67.5° | 19718.1 | 15985.5 | 4203.7 | 1456.5 | 1451.7 | 1473.3 | 1557.4 | 1482.9 | 1374.8 | 1370.0 |
| 20814.0 | 70° | 17759.2 | 13820.0 | 3028.4 | 1312.3 | 1314.7 | 1345.9 | 1456.5 | 1437.3 | 1348.3 | 1358.0 |
| 17499.7 | 72.5° | 14240.6 | 10536.8 | 2033.3 | 1160.9 | 1163.3 | 1213.8 | 1360.4 | 1401.2 | 1321.9 | 1449.3 |
| 12416.3 | 75° | 9484.1 | 6571.1 | 1307.5 | 999.8 | 1002.2 | 1067.1 | 1276.2 | 1331.5 | 1249.8 | 1444.5 |
| 6460.5 | 77.5° | 4557.0 | 2953.9 | 947.0 | 841.2 | 841.2 | 901.3 | 1103.2 | 1192.1 | 1064.7 | 1122.4 |
| 2076.6 | 80° | 1574.3 | 1110.4 | 745.1 | 677.8 | 663.4 | 704.2 | 930.1 | 1033.5 | 918.1 | 846.0 |
| 677.8 | 82.5° | 620.1 | 576.8 | 598.5 | 526.4 | 478.3 | 504.7 | 723.4 | 853.2 | 675.4 | 610.5 |
| 382.2 | 85° | 355.7 | 374.9 | 423.0 | 348.5 | 276.4 | 310.0 | 531.2 | 612.9 | 509.5 | 449.4 |
| 125.0 | 87.5° | 96.1 | 132.2 | 194.7 | 180.3 | 125.0 | 132.2 | 252.4 | 338.9 | 293.2 | 225.9 |
| 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° |
|--------|
| 5073.7 |
| 5203.5 |
| 5410.2 |
| 5660.2 |
| 5890.9 |
| 5972.6 |
| 5975.0 |
| 5869.3 |
| 5621.7 |
| 5270.8 |
| 4903.1 |
| 4566.6 |
| 4268.6 |
| 3896.0 |
| 3477.8 |
| 3062.0 |
| 2689.5 |
| 2377.0 |
| 2067.0 |
| 1891.5 |
| 1781.0 |
| 1704.1 |
| 1651.2 |
| 1593.5 |
| 1495.0 |
| 1413.2 |
| 1379.6 |
| 1377.2 |
| 1355.6 |
| 1468.5 |
| 1456.5 |
| 1028.7 |
| 793.1 |
| 608.1 |
| 459.1 |
| 233.1 |
| 0.0 |

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