

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: P848346

Luminaire Tested: **GLAN-SB4D-840-U-T2**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4D-840-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35937 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

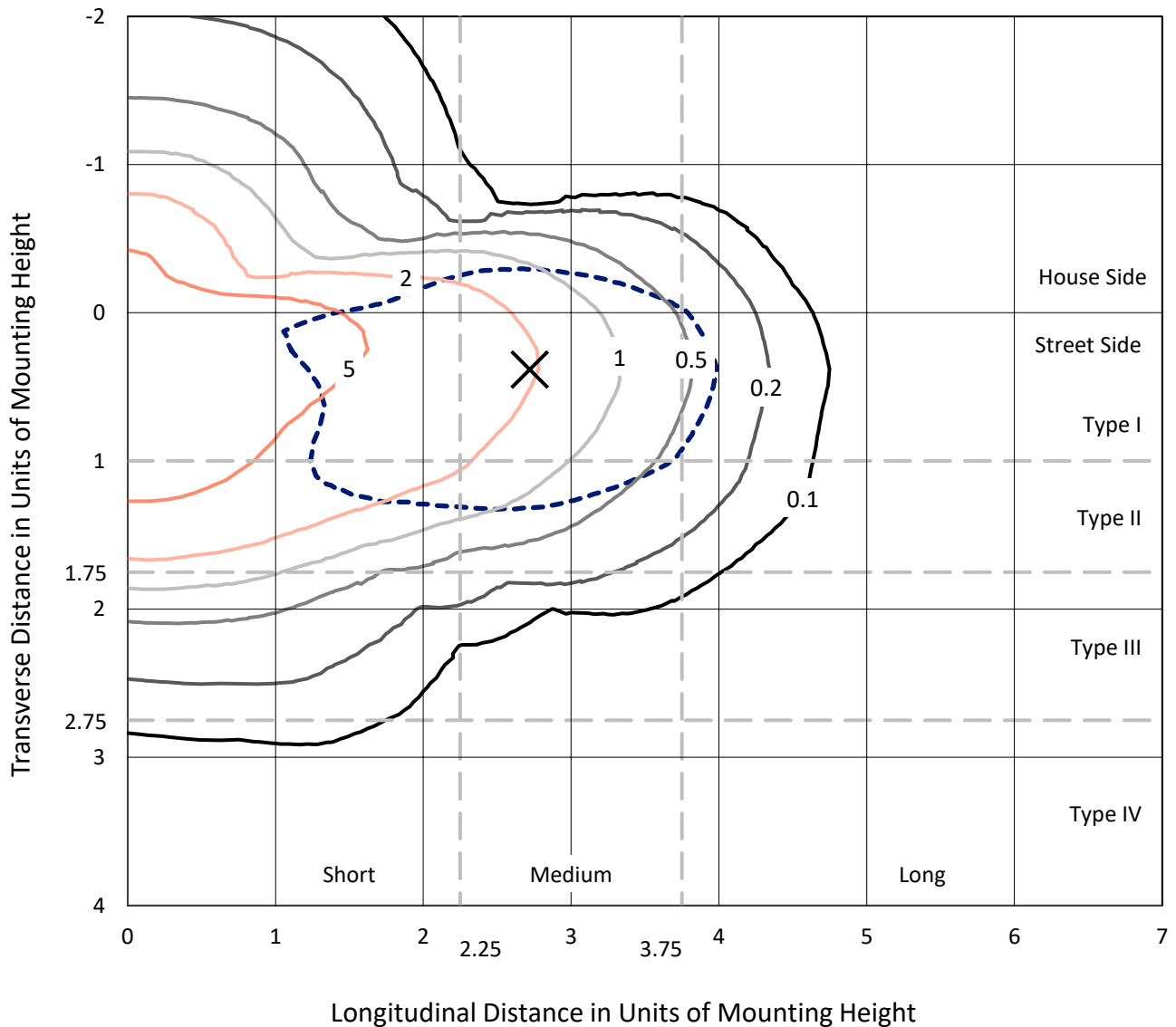
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

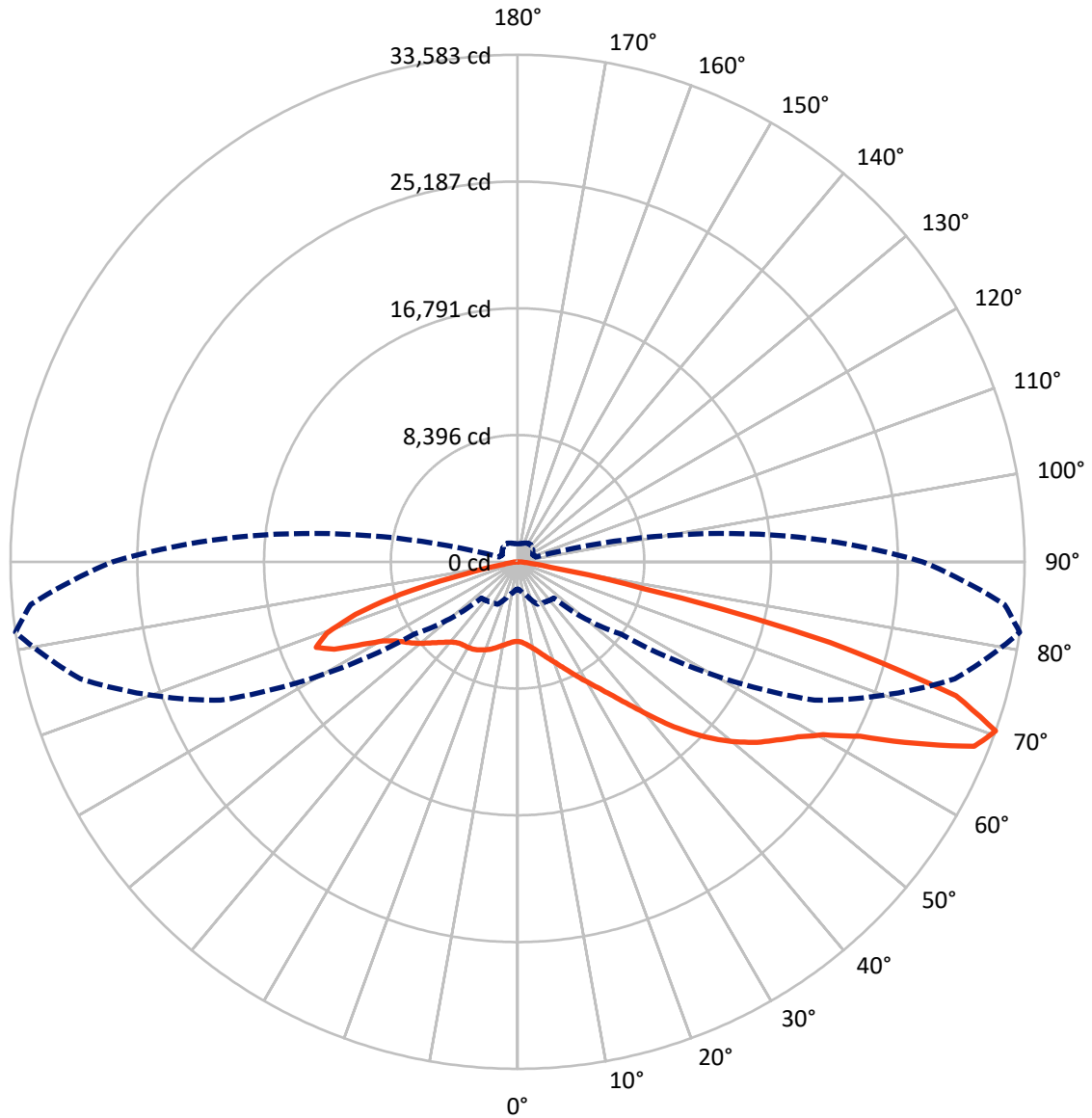
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8859.4 | 0.0 | 8859.4 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 27077.6 | 0.0 | 27077.6 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 35937.0 | 0.0 | 35937.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 497.5 | 1.4 |
| 10°-20° | 1429.3 | 4.0 |
| 20°-30° | 2391.0 | 6.7 |
| 30°-40° | 3735.4 | 10.4 |
| 40°-50° | 5949.0 | 16.6 |
| 50°-60° | 8278.8 | 23.0 |
| 60°-70° | 8660.0 | 24.1 |
| 70°-80° | 4526.2 | 12.6 |
| 80°-90° | 470.0 | 1.3 |
| 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° | 35937.0 | 100.0 |
| 0°-180° | 35937.0 | 100.0 |

Coefficient of Utilization

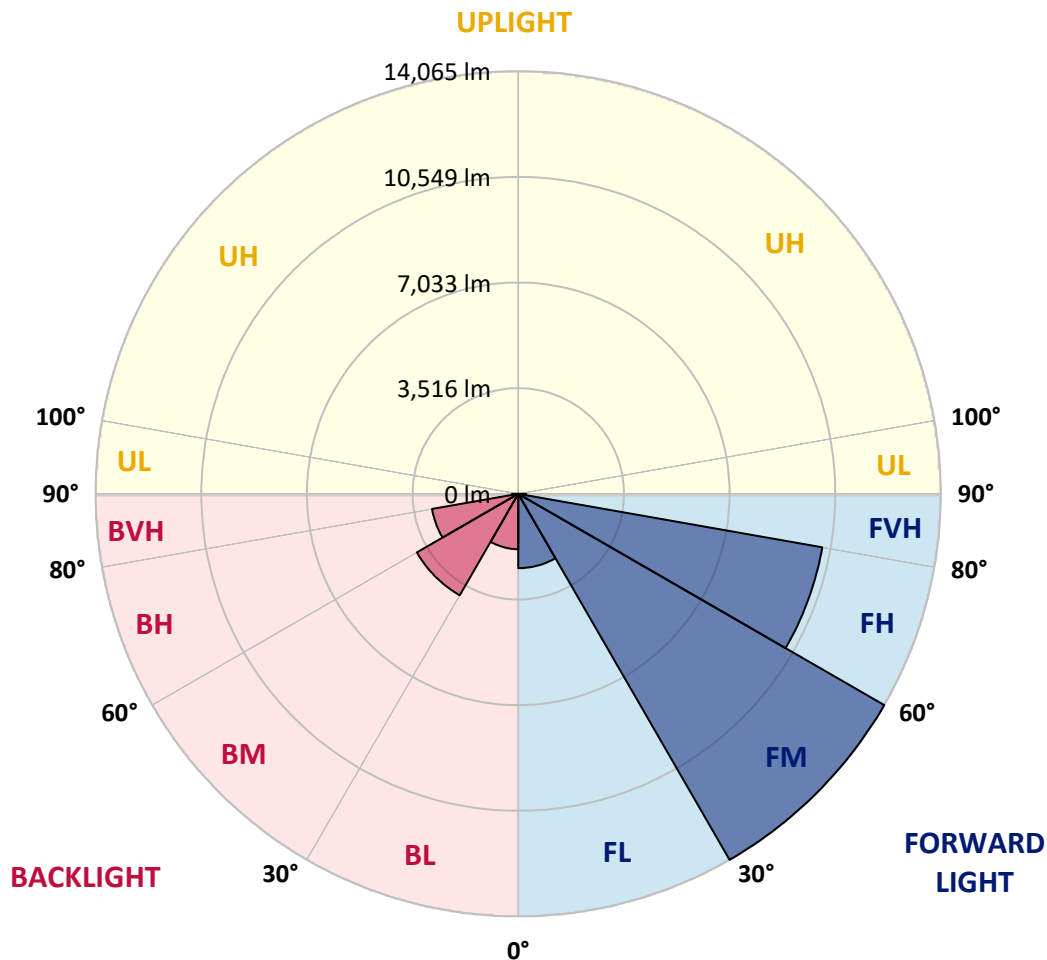


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2474.7 | 6.9 | | | |
| FM (30°-60°) | 14065.4 | 39.1 | | | |
| FH (60°-80°) | 10274.5 | 28.6 | | | G4/12000 |
| FVH (80°-90°) | 263.1 | 0.7 | | | G3/500 |
| BL (0°-30°) | 1843.1 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 3897.8 | 10.8 | B3/5000 | | |
| BH (60°-80°) | 2911.6 | 8.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 206.9 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5268.8 | 5268.8 | 5268.8 | 5268.8 | 5268.8 | 5268.8 | 5268.8 | 5268.8 | 5268.8 | 5268.8 |
| 2.5° | 5394.7 | 5425.2 | 5415.6 | 5406.1 | 5406.1 | 5392.8 | 5390.9 | 5371.8 | 5356.5 | 5331.7 |
| 5° | 5463.3 | 5495.7 | 5491.9 | 5499.6 | 5524.3 | 5530.1 | 5535.8 | 5524.3 | 5493.8 | 5463.3 |
| 7.5° | 5402.3 | 5438.5 | 5450.0 | 5495.7 | 5572.0 | 5640.7 | 5692.1 | 5713.1 | 5684.5 | 5640.7 |
| 10° | 5196.4 | 5236.4 | 5276.4 | 5385.1 | 5520.5 | 5682.6 | 5819.9 | 5901.9 | 5896.2 | 5854.2 |
| 12.5° | 4778.7 | 4820.7 | 4906.5 | 5118.2 | 5366.1 | 5652.1 | 5907.6 | 6079.3 | 6138.4 | 6107.9 |
| 15° | 4445.0 | 4481.3 | 4546.1 | 4763.5 | 5085.7 | 5520.5 | 5940.0 | 6273.8 | 6424.4 | 6407.2 |
| 17.5° | 4435.5 | 4450.7 | 4490.8 | 4593.8 | 4841.7 | 5314.6 | 5905.7 | 6464.5 | 6752.4 | 6750.5 |
| 20° | 4603.3 | 4609.0 | 4631.9 | 4652.9 | 4794.0 | 5158.2 | 5818.0 | 6622.7 | 7120.4 | 7120.4 |
| 22.5° | 4835.9 | 4832.1 | 4855.0 | 4835.9 | 4904.6 | 5144.9 | 5762.7 | 6761.9 | 7530.4 | 7560.9 |
| 25° | 5184.9 | 5165.8 | 5160.1 | 5116.3 | 5129.6 | 5268.8 | 5823.7 | 6920.2 | 8016.7 | 8079.6 |
| 27.5° | 5650.2 | 5619.7 | 5598.7 | 5497.6 | 5463.3 | 5524.3 | 6010.6 | 7110.9 | 8558.2 | 8666.9 |
| 30° | 6256.6 | 6201.3 | 6170.8 | 5995.3 | 5871.4 | 5880.9 | 6292.8 | 7364.5 | 9124.6 | 9300.0 |
| 32.5° | 7084.2 | 6998.4 | 6916.4 | 6628.4 | 6401.5 | 6327.2 | 6657.0 | 7715.4 | 9738.6 | 10018.9 |
| 35° | 8011.0 | 7942.3 | 7854.6 | 7410.3 | 7061.3 | 6889.7 | 7149.0 | 8205.5 | 10457.5 | 10901.8 |
| 37.5° | 8903.4 | 8844.3 | 8886.2 | 8287.5 | 7837.4 | 7587.6 | 7793.6 | 8863.4 | 11344.3 | 12000.2 |
| 40° | 9826.3 | 9780.6 | 9786.3 | 9214.2 | 8689.8 | 8409.5 | 8575.4 | 9689.0 | 12360.6 | 13306.5 |
| 42.5° | 10829.4 | 10795.1 | 10680.6 | 10173.4 | 9584.2 | 9322.9 | 9475.5 | 10642.5 | 13451.4 | 14793.9 |
| 45° | 11952.6 | 11931.6 | 11824.8 | 11243.2 | 10568.1 | 10274.5 | 10480.4 | 11695.1 | 14547.9 | 16193.5 |
| 47.5° | 12923.2 | 12940.3 | 12927.0 | 12436.9 | 11737.1 | 11306.1 | 11552.1 | 12793.5 | 15568.1 | 17509.3 |
| 50° | 13390.4 | 13480.0 | 13611.6 | 13459.0 | 13024.2 | 12585.7 | 12633.3 | 13853.8 | 16540.6 | 18743.1 |
| 52.5° | 13146.3 | 13316.0 | 13674.5 | 13918.6 | 14086.4 | 13994.9 | 13867.1 | 14906.4 | 17455.9 | 19856.7 |
| 55° | 12236.7 | 12475.1 | 13070.0 | 13659.3 | 14515.5 | 15181.0 | 15348.8 | 16073.4 | 18348.4 | 20836.9 |
| 57.5° | 10579.6 | 10966.7 | 11500.6 | 12692.4 | 14134.1 | 15755.0 | 17076.4 | 17692.4 | 19294.2 | 21883.8 |
| 60° | 7738.3 | 8257.0 | 8920.6 | 10694.0 | 12799.2 | 15447.9 | 18546.7 | 20179.0 | 20638.6 | 23239.6 |
| 62.5° | 4952.3 | 5272.6 | 5882.8 | 7553.3 | 9973.2 | 13874.7 | 18996.7 | 23287.3 | 22917.3 | 25463.1 |
| 65° | 3390.5 | 3596.4 | 4155.2 | 5093.4 | 6447.3 | 10327.9 | 17791.5 | 25617.5 | 26536.7 | 28987.1 |
| 67.5° | 2463.7 | 2620.1 | 3096.8 | 3918.7 | 4200.9 | 6111.7 | 13806.1 | 25510.7 | 30054.9 | 32617.8 |
| 70° | 1796.3 | 1906.9 | 2307.4 | 3096.8 | 3232.2 | 3400.0 | 8363.7 | 21685.5 | 29978.7 | 33582.7 |
| 72.5° | 1331.0 | 1407.3 | 1676.2 | 2402.7 | 2616.3 | 2295.9 | 4139.9 | 15760.7 | 25760.6 | 30375.3 |
| 75° | 963.0 | 1020.2 | 1218.5 | 1838.3 | 2093.8 | 1748.6 | 2065.2 | 9210.4 | 17968.9 | 21367.0 |
| 77.5° | 736.1 | 779.9 | 909.6 | 1346.3 | 1676.2 | 1312.0 | 1281.4 | 4237.2 | 8520.1 | 8562.1 |
| 80° | 591.1 | 619.7 | 690.3 | 947.7 | 1285.3 | 982.1 | 835.2 | 1710.5 | 2692.6 | 2278.8 |
| 82.5° | 434.8 | 482.5 | 583.5 | 665.5 | 919.1 | 677.0 | 509.1 | 863.8 | 1024.0 | 881.0 |
| 85° | 247.9 | 280.3 | 352.8 | 476.7 | 587.3 | 413.8 | 291.8 | 383.3 | 476.7 | 390.9 |
| 87.5° | 87.7 | 114.4 | 123.9 | 186.9 | 255.5 | 171.6 | 112.5 | 110.6 | 156.4 | 116.3 |
| 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-SB4D-840-U-T2

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5268.8 | 0° | 5268.8 | 5268.8 | 5268.8 | 5268.8 | 5268.8 | 5268.8 | 5268.8 | 5268.8 | 5268.8 | 5268.8 |
| 5326.0 | 2.5° | 5307.0 | 5297.4 | 5259.3 | 5207.8 | 5154.4 | 5102.9 | 5085.7 | 5049.5 | 5024.7 | 5011.4 |
| 5450.0 | 5° | 5413.7 | 5383.2 | 5293.6 | 5179.2 | 5059.1 | 4929.4 | 4837.9 | 4753.9 | 4692.9 | 4635.7 |
| 5619.7 | 7.5° | 5566.3 | 5512.9 | 5358.4 | 5158.2 | 4944.6 | 4729.2 | 4569.0 | 4446.9 | 4364.9 | 4311.5 |
| 5818.0 | 10° | 5743.6 | 5661.6 | 5425.2 | 5125.8 | 4795.9 | 4487.0 | 4298.2 | 4193.3 | 4141.8 | 4113.2 |
| 6044.9 | 12.5° | 5947.7 | 5831.4 | 5493.8 | 5051.4 | 4569.0 | 4216.2 | 4086.5 | 4056.0 | 4057.9 | 4059.8 |
| 6331.0 | 15° | 6199.4 | 6037.3 | 5549.1 | 4889.3 | 4273.4 | 4008.3 | 3985.5 | 4035.0 | 4086.5 | 4111.3 |
| 6655.1 | 17.5° | 6483.5 | 6254.7 | 5558.7 | 4622.4 | 3983.6 | 3874.9 | 3947.3 | 4054.1 | 4132.3 | 4166.6 |
| 7017.5 | 20° | 6788.6 | 6475.9 | 5490.0 | 4244.8 | 3745.2 | 3766.2 | 3895.8 | 4033.1 | 4118.9 | 4162.8 |
| 7431.3 | 22.5° | 7137.6 | 6712.4 | 5326.0 | 3848.2 | 3550.7 | 3647.9 | 3800.5 | 3934.0 | 4023.6 | 4067.5 |
| 7917.5 | 25° | 7536.1 | 6977.4 | 5068.6 | 3514.4 | 3382.9 | 3514.4 | 3667.0 | 3777.6 | 3850.1 | 3890.1 |
| 8461.0 | 27.5° | 7978.5 | 7253.9 | 4725.3 | 3249.4 | 3236.0 | 3377.2 | 3503.0 | 3588.8 | 3627.0 | 3657.5 |
| 9038.8 | 30° | 8422.9 | 7505.6 | 4309.6 | 3049.2 | 3108.3 | 3241.8 | 3331.4 | 3369.5 | 3381.0 | 3386.7 |
| 9683.3 | 32.5° | 8903.4 | 7723.0 | 3872.9 | 2883.3 | 2986.2 | 3110.2 | 3163.6 | 3180.7 | 3127.3 | 3091.1 |
| 10465.2 | 35° | 9485.0 | 7955.7 | 3445.8 | 2751.7 | 2866.1 | 2972.9 | 2990.0 | 2974.8 | 2911.9 | 2837.5 |
| 11445.3 | 37.5° | 10203.9 | 8245.5 | 3104.5 | 2658.2 | 2753.6 | 2824.1 | 2803.2 | 2799.4 | 2805.1 | 2717.4 |
| 12623.8 | 40° | 11084.9 | 8623.1 | 2854.7 | 2585.8 | 2662.1 | 2677.3 | 2618.2 | 2650.6 | 2679.2 | 2545.7 |
| 13916.7 | 42.5° | 12063.2 | 9078.8 | 2696.4 | 2536.2 | 2585.8 | 2549.5 | 2458.0 | 2494.2 | 2490.4 | 2315.0 |
| 15215.3 | 45° | 13060.5 | 9574.6 | 2641.1 | 2500.0 | 2515.2 | 2442.8 | 2341.7 | 2351.2 | 2271.1 | 2112.9 |
| 16460.5 | 47.5° | 14052.1 | 10106.7 | 2675.4 | 2469.5 | 2427.5 | 2345.5 | 2267.3 | 2225.4 | 2107.1 | 1988.9 |
| 17654.2 | 50° | 15024.6 | 10665.4 | 2801.3 | 2408.4 | 2307.4 | 2259.7 | 2202.5 | 2128.1 | 2002.3 | 1901.2 |
| 18783.1 | 52.5° | 15926.6 | 11227.9 | 2942.4 | 2307.4 | 2156.7 | 2185.3 | 2149.1 | 2063.3 | 1939.3 | 1836.4 |
| 19851.0 | 55° | 16780.9 | 11790.5 | 2997.7 | 2168.2 | 2015.6 | 2120.5 | 2099.5 | 1941.2 | 1792.5 | 1708.6 |
| 20968.5 | 57.5° | 17711.5 | 12467.4 | 2936.7 | 1990.8 | 1901.2 | 2046.1 | 1966.0 | 1790.6 | 1704.8 | 1641.9 |
| 22423.4 | 60° | 19000.5 | 13529.6 | 2805.1 | 1771.5 | 1792.5 | 1935.5 | 1798.2 | 1725.8 | 1632.3 | 1561.8 |
| 24605.0 | 62.5° | 21142.0 | 15510.9 | 2593.4 | 1554.1 | 1664.7 | 1771.5 | 1718.1 | 1645.7 | 1550.3 | 1481.7 |
| 28334.9 | 65° | 24307.5 | 18264.5 | 2194.9 | 1384.4 | 1521.7 | 1611.3 | 1632.3 | 1559.9 | 1460.7 | 1388.2 |
| 31603.3 | 67.5° | 26977.2 | 19992.1 | 1660.9 | 1243.3 | 1374.9 | 1481.7 | 1540.8 | 1470.2 | 1365.4 | 1294.8 |
| 32368.0 | 70° | 26830.3 | 18737.4 | 1268.1 | 1104.1 | 1245.2 | 1353.9 | 1430.2 | 1374.9 | 1262.4 | 1195.6 |
| 29400.9 | 72.5° | 23830.8 | 15674.9 | 1025.9 | 963.0 | 1113.6 | 1220.4 | 1312.0 | 1270.0 | 1155.6 | 1090.8 |
| 21538.6 | 75° | 17507.4 | 11126.9 | 820.0 | 820.0 | 949.6 | 1081.2 | 1182.3 | 1155.6 | 1050.7 | 1004.9 |
| 9042.6 | 77.5° | 7379.8 | 4668.1 | 642.6 | 680.8 | 789.5 | 928.7 | 1054.5 | 1064.1 | 972.5 | 1029.7 |
| 2391.3 | 80° | 1962.2 | 1287.2 | 490.1 | 535.8 | 619.7 | 766.6 | 917.2 | 913.4 | 814.3 | 760.9 |
| 888.6 | 82.5° | 747.5 | 507.2 | 349.0 | 377.6 | 448.1 | 587.3 | 726.5 | 749.4 | 650.3 | 562.5 |
| 349.0 | 85° | 287.9 | 217.4 | 215.5 | 226.9 | 261.2 | 389.0 | 549.2 | 568.3 | 490.1 | 415.7 |
| 97.3 | 87.5° | 74.4 | 64.8 | 80.1 | 76.3 | 120.1 | 207.9 | 314.6 | 326.1 | 299.4 | 173.5 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O

| <u>180°</u> |
|-------------|
| 5268.8 |
| 5026.6 |
| 4658.6 |
| 4323.0 |
| 4120.8 |
| 4063.6 |
| 4109.4 |
| 4174.2 |
| 4174.2 |
| 4078.9 |
| 3901.6 |
| 3668.9 |
| 3400.0 |
| 3102.6 |
| 2841.3 |
| 2723.1 |
| 2549.5 |
| 2313.1 |
| 2118.6 |
| 1988.9 |
| 1893.6 |
| 1838.3 |
| 1701.0 |
| 1636.1 |
| 1558.0 |
| 1481.7 |
| 1392.0 |
| 1296.7 |
| 1201.4 |
| 1090.8 |
| 991.6 |
| 934.4 |
| 707.5 |
| 562.5 |
| 429.1 |
| 247.9 |
| 0.0 |

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