

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: P851378

Luminaire Tested: **GLAN-SB9B-827-U-T3**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P851378
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-SB9B-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40921.1 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

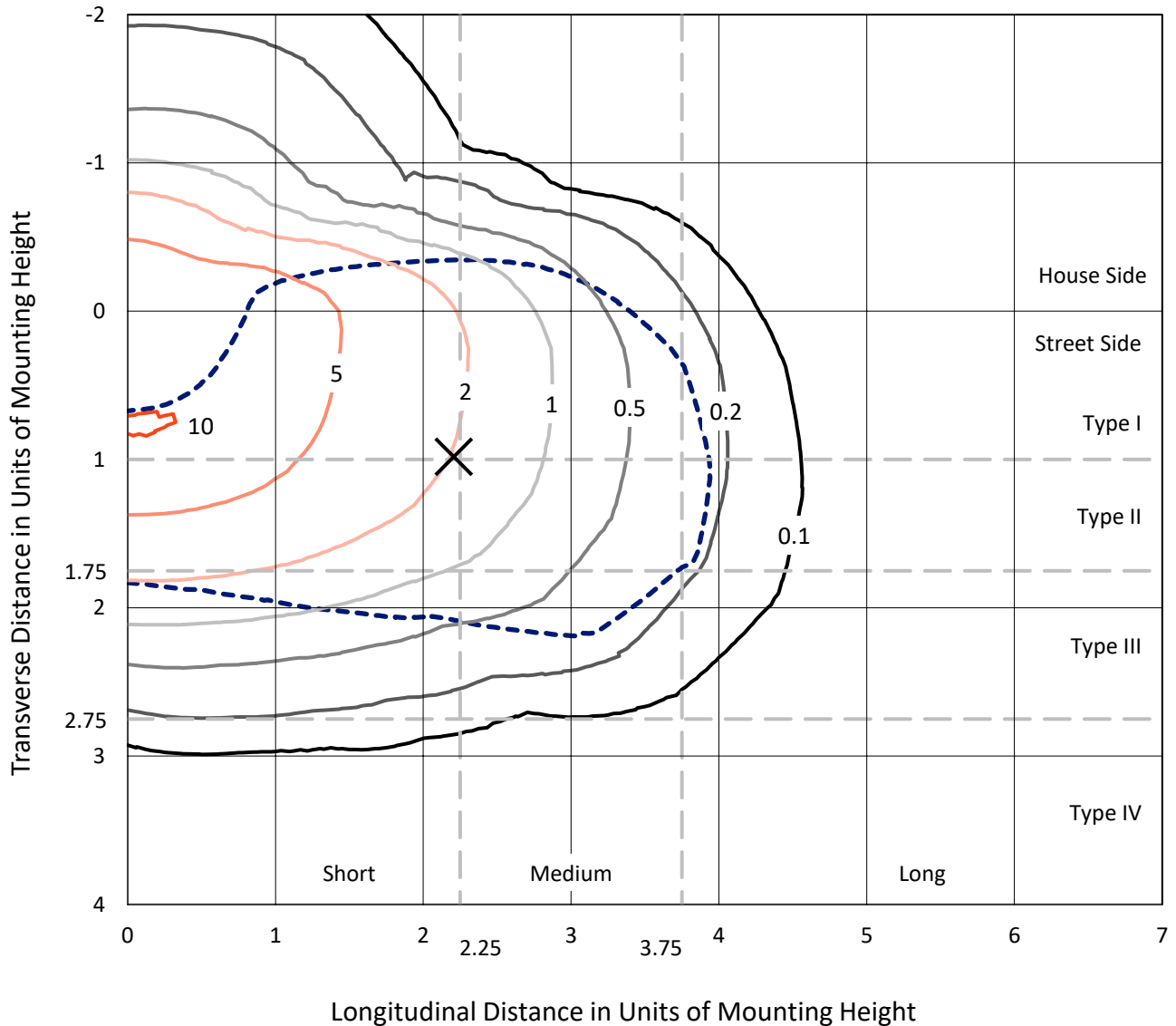
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

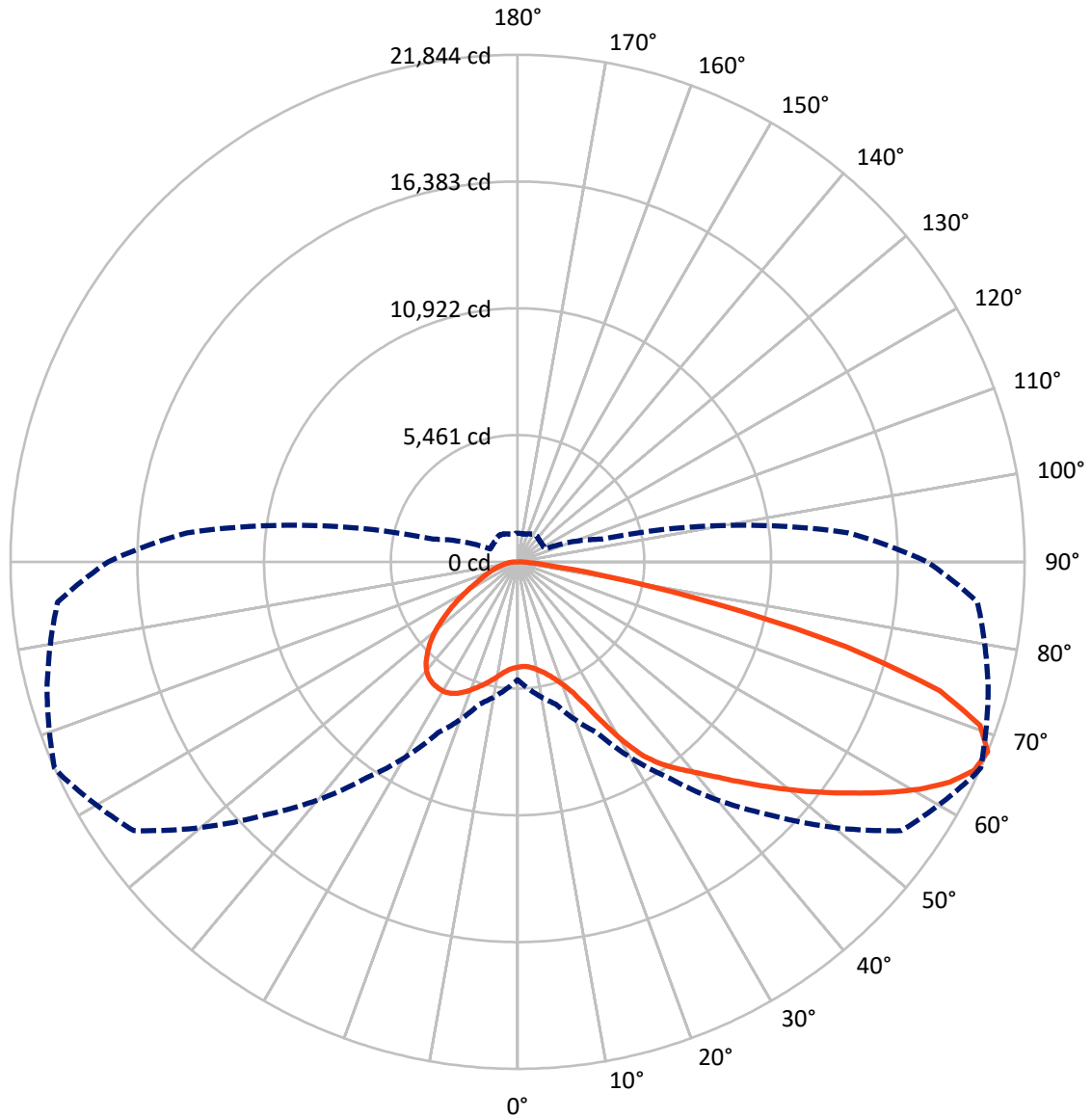
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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 | 10174.9 | 0.0 | 10174.9 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 30746.1 | 0.0 | 30746.1 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 40921.1 | 0.0 | 40921.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 450.0 | 1.1 |
| 10°-20° | 1486.7 | 3.6 |
| 20°-30° | 2865.6 | 7.0 |
| 30°-40° | 5024.4 | 12.3 |
| 40°-50° | 7469.6 | 18.3 |
| 50°-60° | 9468.5 | 23.1 |
| 60°-70° | 9264.7 | 22.6 |
| 70°-80° | 4419.3 | 10.8 |
| 80°-90° | 472.3 | 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° | 40921.1 | 100.0 |
| 0°-180° | 40921.1 | 100.0 |

Coefficient of Utilization



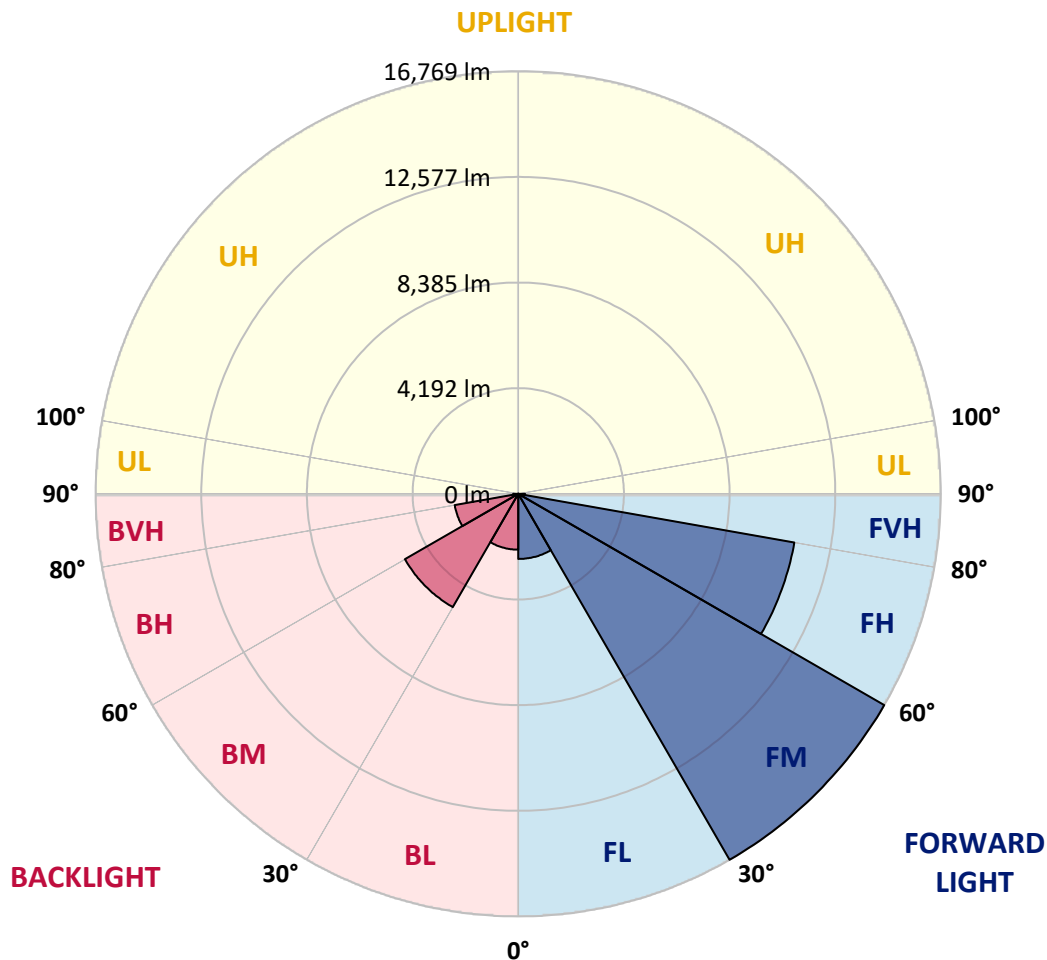
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2585.8 | 6.3 | | | |
| FM (30°-60°) | 16769.1 | 41.0 | | | |
| FH (60°-80°) | 11123.5 | 27.2 | | | G4/12000 |
| FVH (80°-90°) | 267.8 | 0.7 | | | G3/500 |
| BL (0°-30°) | 2216.5 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 5193.4 | 12.7 | B4/8500 | | |
| BH (60°-80°) | 2560.5 | 6.3 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 204.5 | 0.5 | | | 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 III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4538.7 | 4538.7 | 4538.7 | 4538.7 | 4538.7 | 4538.7 | 4538.7 | 4538.7 | 4538.7 | 4538.7 |
| 2.5° | 4491.4 | 4517.2 | 4510.7 | 4500.0 | 4497.8 | 4502.1 | 4508.6 | 4515.0 | 4512.9 | 4523.6 |
| 5° | 4478.5 | 4504.3 | 4502.1 | 4502.1 | 4510.7 | 4527.9 | 4538.7 | 4549.4 | 4538.7 | 4551.6 |
| 7.5° | 4487.1 | 4506.4 | 4515.0 | 4523.6 | 4545.1 | 4577.4 | 4603.2 | 4626.8 | 4613.9 | 4629.0 |
| 10° | 4596.7 | 4611.8 | 4620.4 | 4620.4 | 4635.4 | 4672.0 | 4697.8 | 4740.8 | 4730.0 | 4753.7 |
| 12.5° | 4796.7 | 4811.7 | 4811.7 | 4803.1 | 4813.9 | 4837.5 | 4846.1 | 4893.4 | 4874.1 | 4912.8 |
| 15° | 5041.8 | 5071.9 | 5048.2 | 5033.2 | 5037.5 | 5061.1 | 5059.0 | 5095.5 | 5076.2 | 5108.4 |
| 17.5° | 5312.7 | 5351.4 | 5312.7 | 5310.5 | 5301.9 | 5327.7 | 5329.9 | 5362.1 | 5327.7 | 5351.4 |
| 20° | 5633.0 | 5686.8 | 5654.5 | 5665.3 | 5645.9 | 5656.7 | 5667.4 | 5714.7 | 5661.0 | 5678.2 |
| 22.5° | 6084.5 | 6149.0 | 6114.6 | 6155.5 | 6142.6 | 6134.0 | 6131.8 | 6215.7 | 6131.8 | 6138.3 |
| 25° | 6742.4 | 6819.8 | 6759.6 | 6815.5 | 6815.5 | 6843.5 | 6875.7 | 6983.2 | 6843.5 | 6802.6 |
| 27.5° | 7714.3 | 7791.7 | 7673.4 | 7707.8 | 7697.1 | 7765.9 | 7731.5 | 7998.1 | 7847.6 | 7780.9 |
| 30° | 8883.9 | 9021.5 | 8797.9 | 8789.3 | 8778.5 | 8888.2 | 8937.6 | 9113.9 | 8961.3 | 8894.6 |
| 32.5° | 10148.1 | 10292.1 | 10025.5 | 9948.1 | 9907.3 | 9973.9 | 9933.1 | 10075.0 | 9969.6 | 9866.4 |
| 35° | 11485.4 | 11627.3 | 11373.6 | 11223.1 | 11059.7 | 10919.9 | 10773.7 | 10810.3 | 10711.4 | 10554.4 |
| 37.5° | 12749.6 | 13009.7 | 12741.0 | 12579.7 | 12278.7 | 12005.7 | 11597.2 | 11427.3 | 11334.9 | 11190.8 |
| 40° | 14037.4 | 14185.8 | 13981.5 | 13843.9 | 13517.1 | 13089.3 | 12435.7 | 12076.6 | 11951.9 | 11812.2 |
| 42.5° | 14985.6 | 15127.5 | 15017.8 | 14923.2 | 14667.4 | 14170.7 | 13325.8 | 12876.4 | 12695.8 | 12538.9 |
| 45° | 15738.1 | 15843.5 | 15774.7 | 15809.1 | 15699.4 | 15217.8 | 14248.1 | 13734.3 | 13547.2 | 13355.9 |
| 47.5° | 16041.3 | 16153.1 | 16262.7 | 16467.0 | 16654.0 | 16299.3 | 15239.3 | 14663.1 | 14465.3 | 14269.6 |
| 50° | 16006.9 | 16120.8 | 16439.0 | 16873.3 | 17453.8 | 17335.6 | 16284.2 | 15652.1 | 15469.4 | 15245.7 |
| 52.5° | 15731.7 | 15860.7 | 16269.2 | 16991.6 | 17916.1 | 18111.7 | 17348.5 | 16673.4 | 16501.4 | 16234.8 |
| 55° | 15009.2 | 15086.6 | 15699.4 | 16722.8 | 18025.7 | 18653.5 | 18391.2 | 17761.3 | 17589.3 | 17217.3 |
| 57.5° | 13669.8 | 13781.6 | 14673.8 | 15998.3 | 17750.5 | 19021.2 | 19307.1 | 18905.1 | 18739.5 | 18204.2 |
| 60° | 11921.8 | 12100.3 | 13121.5 | 14781.3 | 17049.6 | 19019.0 | 20139.2 | 20029.5 | 19891.9 | 19176.0 |
| 62.5° | 9943.8 | 10150.2 | 11132.8 | 13061.3 | 15824.1 | 18479.4 | 20659.5 | 20971.2 | 20900.3 | 20072.5 |
| 65° | 7636.8 | 7778.8 | 8757.0 | 10836.1 | 13917.0 | 17320.5 | 20719.7 | 21614.1 | 21627.0 | 20754.1 |
| 67.5° | 5084.8 | 5493.3 | 6342.5 | 8131.4 | 11362.8 | 15426.4 | 20190.8 | 21719.4 | 21844.1 | 20988.4 |
| 70° | 2481.1 | 3018.6 | 3850.7 | 5284.7 | 8131.4 | 12521.7 | 18808.3 | 20855.1 | 21132.5 | 20304.7 |
| 72.5° | 1029.9 | 1204.0 | 1657.7 | 2608.0 | 4667.7 | 8449.6 | 16030.5 | 18511.6 | 19025.5 | 17991.3 |
| 75° | 694.5 | 752.5 | 948.2 | 1337.3 | 2126.4 | 4166.7 | 11560.6 | 13803.1 | 14630.8 | 13588.1 |
| 77.5° | 535.4 | 571.9 | 690.2 | 935.3 | 1264.2 | 1576.0 | 6187.7 | 8318.4 | 8746.3 | 8097.0 |
| 80° | 421.4 | 449.4 | 516.0 | 681.6 | 896.6 | 842.8 | 2109.2 | 3769.0 | 4016.2 | 3369.1 |
| 82.5° | 365.5 | 376.3 | 369.8 | 462.3 | 595.6 | 492.4 | 692.3 | 1391.1 | 1535.1 | 1113.7 |
| 85° | 264.5 | 294.6 | 307.5 | 286.0 | 316.1 | 249.4 | 283.8 | 492.4 | 541.8 | 483.8 |
| 87.5° | 107.5 | 159.1 | 195.7 | 184.9 | 116.1 | 71.0 | 88.2 | 144.1 | 165.6 | 180.6 |
| 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-SB9B-827-U-T3

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4538.7 | 0° | 4538.7 | 4538.7 | 4538.7 | 4538.7 | 4538.7 | 4538.7 | 4538.7 | 4538.7 | 4538.7 | 4538.7 |
| 4540.8 | 2.5° | 4543.0 | 4558.0 | 4568.8 | 4581.7 | 4590.3 | 4603.2 | 4629.0 | 4644.0 | 4646.2 | 4656.9 |
| 4575.2 | 5° | 4583.8 | 4605.3 | 4629.0 | 4663.4 | 4702.1 | 4734.3 | 4783.8 | 4818.2 | 4831.1 | 4841.8 |
| 4659.1 | 7.5° | 4672.0 | 4702.1 | 4745.1 | 4805.3 | 4861.2 | 4904.2 | 4964.4 | 5005.2 | 5046.1 | 5061.1 |
| 4792.4 | 10° | 4803.1 | 4846.1 | 4908.5 | 4990.2 | 5050.4 | 5106.3 | 5168.6 | 5203.0 | 5243.9 | 5261.1 |
| 4951.5 | 12.5° | 4966.5 | 5011.7 | 5093.4 | 5207.3 | 5263.2 | 5301.9 | 5323.4 | 5314.8 | 5323.4 | 5338.5 |
| 5142.8 | 15° | 5153.6 | 5203.0 | 5295.5 | 5418.0 | 5456.7 | 5422.3 | 5375.0 | 5332.0 | 5325.6 | 5329.9 |
| 5375.0 | 17.5° | 5375.0 | 5411.6 | 5519.1 | 5622.3 | 5594.3 | 5452.4 | 5349.2 | 5280.4 | 5246.0 | 5235.3 |
| 5671.7 | 20° | 5684.6 | 5684.6 | 5772.8 | 5837.3 | 5650.2 | 5409.4 | 5248.2 | 5136.4 | 5065.4 | 5035.3 |
| 6075.9 | 22.5° | 6060.9 | 6026.5 | 6082.4 | 6037.2 | 5639.5 | 5289.0 | 5065.4 | 4871.9 | 4764.4 | 4721.4 |
| 6641.4 | 25° | 6538.2 | 6497.3 | 6482.3 | 6202.8 | 5562.1 | 5097.7 | 4734.3 | 4500.0 | 4405.4 | 4381.7 |
| 7456.2 | 27.5° | 7258.4 | 7155.2 | 6959.6 | 6293.1 | 5420.2 | 4796.7 | 4347.3 | 4130.2 | 4076.4 | 4078.6 |
| 8503.3 | 30° | 8217.4 | 8011.0 | 7531.5 | 6308.1 | 5188.0 | 4371.0 | 3951.7 | 3796.9 | 3771.1 | 3781.9 |
| 9382.7 | 32.5° | 9105.3 | 8909.7 | 8116.3 | 6239.3 | 4831.1 | 3953.9 | 3597.0 | 3493.8 | 3455.1 | 3468.0 |
| 10053.5 | 35° | 9801.9 | 9748.2 | 8658.1 | 6142.6 | 4392.5 | 3562.6 | 3278.8 | 3190.6 | 3115.4 | 3098.2 |
| 10685.6 | 37.5° | 10459.8 | 10438.3 | 9064.5 | 6007.1 | 3958.2 | 3285.2 | 3022.9 | 2906.8 | 2797.2 | 2737.0 |
| 11384.3 | 40° | 11182.2 | 11160.7 | 9331.1 | 5798.6 | 3573.3 | 3044.4 | 2792.9 | 2640.2 | 2504.8 | 2395.1 |
| 12175.5 | 42.5° | 11994.9 | 11868.1 | 9457.9 | 5499.7 | 3246.5 | 2840.2 | 2605.8 | 2399.4 | 2221.0 | 2119.9 |
| 13069.9 | 45° | 12882.9 | 12596.9 | 9455.8 | 5119.2 | 2971.3 | 2653.1 | 2405.9 | 2113.5 | 1947.9 | 1853.3 |
| 13988.0 | 47.5° | 13824.6 | 13293.5 | 9339.7 | 4697.8 | 2704.7 | 2446.7 | 2096.3 | 1872.7 | 1763.0 | 1705.0 |
| 14985.6 | 50° | 14796.4 | 13945.0 | 9141.9 | 4214.0 | 2431.7 | 2212.4 | 1902.8 | 1750.1 | 1666.3 | 1612.5 |
| 15974.6 | 52.5° | 15710.2 | 14536.2 | 8903.2 | 3665.8 | 2154.3 | 1984.5 | 1816.8 | 1698.5 | 1610.4 | 1550.2 |
| 16933.5 | 55° | 16559.4 | 15045.8 | 8565.7 | 3104.6 | 1928.6 | 1831.8 | 1775.9 | 1677.0 | 1576.0 | 1505.0 |
| 17907.5 | 57.5° | 17314.1 | 15376.9 | 7983.0 | 2577.9 | 1767.3 | 1726.5 | 1732.9 | 1640.5 | 1524.4 | 1464.2 |
| 18866.4 | 60° | 17941.9 | 15619.9 | 7120.8 | 2089.8 | 1636.2 | 1623.3 | 1666.3 | 1571.7 | 1436.2 | 1367.4 |
| 19676.9 | 62.5° | 18318.1 | 15615.6 | 6063.0 | 1711.4 | 1524.4 | 1528.7 | 1578.1 | 1485.7 | 1348.1 | 1283.6 |
| 20100.5 | 65° | 18285.9 | 15232.8 | 4902.0 | 1464.2 | 1416.9 | 1421.2 | 1485.7 | 1391.1 | 1275.0 | 1236.3 |
| 19887.6 | 67.5° | 17638.7 | 14299.7 | 3760.4 | 1302.9 | 1298.6 | 1318.0 | 1393.2 | 1326.6 | 1229.8 | 1225.5 |
| 18619.1 | 70° | 15886.5 | 12362.6 | 2709.0 | 1173.9 | 1176.1 | 1204.0 | 1302.9 | 1285.7 | 1206.2 | 1214.8 |
| 15654.3 | 72.5° | 12738.8 | 9425.7 | 1818.9 | 1038.5 | 1040.6 | 1085.8 | 1216.9 | 1253.5 | 1182.5 | 1296.5 |
| 11107.0 | 75° | 8484.0 | 5878.1 | 1169.6 | 894.4 | 896.6 | 954.6 | 1141.7 | 1191.1 | 1118.0 | 1292.2 |
| 5779.2 | 77.5° | 4076.4 | 2642.4 | 847.1 | 752.5 | 752.5 | 806.3 | 986.9 | 1066.4 | 952.5 | 1004.1 |
| 1857.6 | 80° | 1408.3 | 993.3 | 666.5 | 606.3 | 593.4 | 630.0 | 832.1 | 924.5 | 821.3 | 756.8 |
| 606.3 | 82.5° | 554.7 | 516.0 | 535.4 | 470.9 | 427.9 | 451.5 | 647.2 | 763.3 | 604.2 | 546.1 |
| 341.9 | 85° | 318.2 | 335.4 | 378.4 | 311.8 | 247.3 | 277.4 | 475.2 | 548.3 | 455.8 | 402.1 |
| 111.8 | 87.5° | 86.0 | 118.3 | 174.2 | 161.3 | 111.8 | 118.3 | 225.8 | 303.2 | 262.3 | 202.1 |
| 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> |
|---------------|
| 4538.7 |
| 4654.8 |
| 4839.7 |
| 5063.3 |
| 5269.7 |
| 5342.8 |
| 5344.9 |
| 5250.3 |
| 5028.9 |
| 4715.0 |
| 4386.0 |
| 4085.0 |
| 3818.4 |
| 3485.2 |
| 3111.1 |
| 2739.1 |
| 2405.9 |
| 2126.4 |
| 1849.0 |
| 1692.1 |
| 1593.2 |
| 1524.4 |
| 1477.1 |
| 1425.5 |
| 1337.3 |
| 1264.2 |
| 1234.1 |
| <i>1232.0</i> |
| 1212.6 |
| 1313.7 |
| 1302.9 |
| 920.2 |
| 709.5 |
| 544.0 |
| 410.7 |
| 208.6 |
| 0.0 |

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