

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: P853143

Luminaire Tested: **GLAN-SB9A-735-U-T4FT**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P853143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB9A-735-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39628 lumens
Efficiency: N/A
Efficacy: 155.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

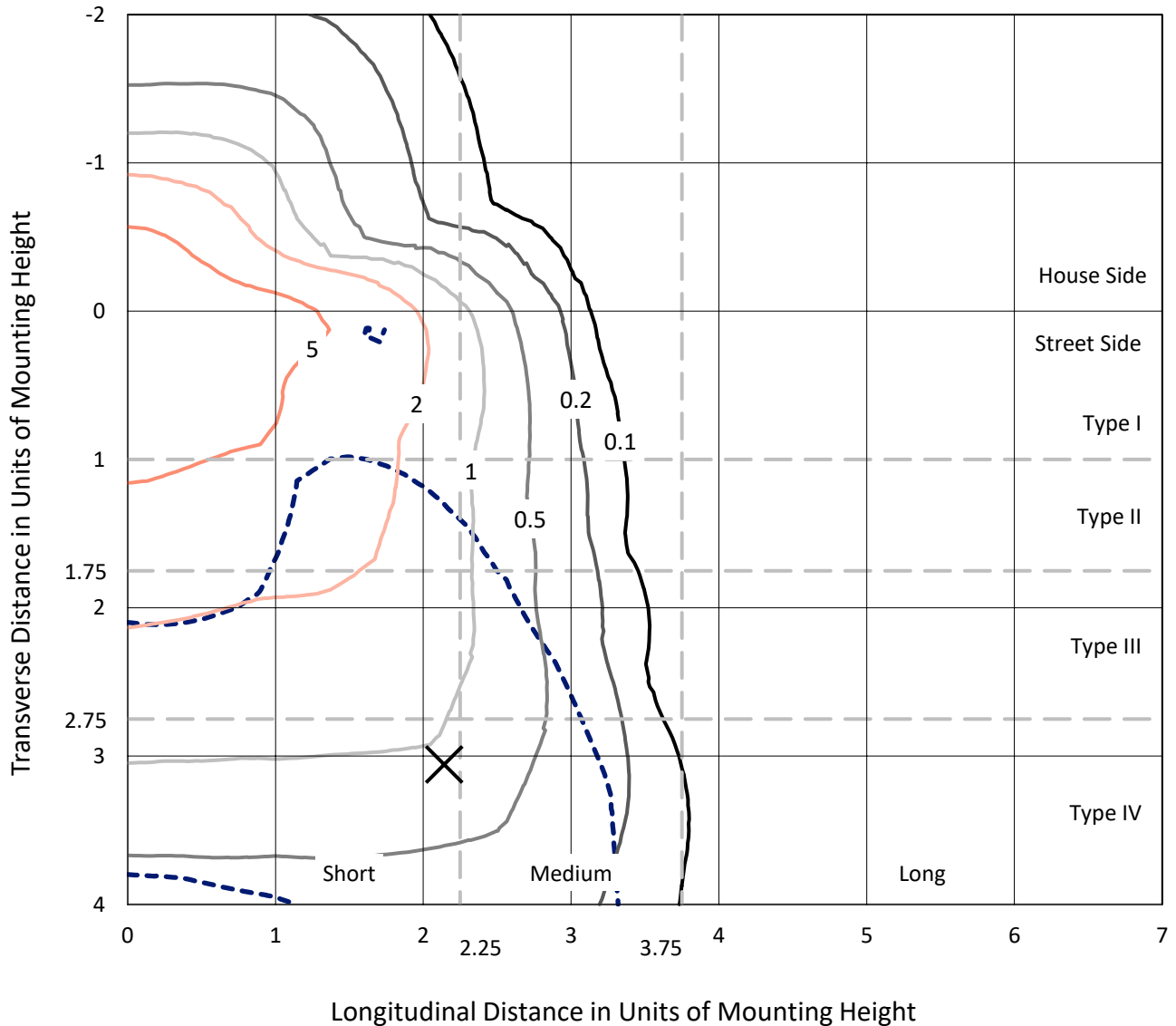
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

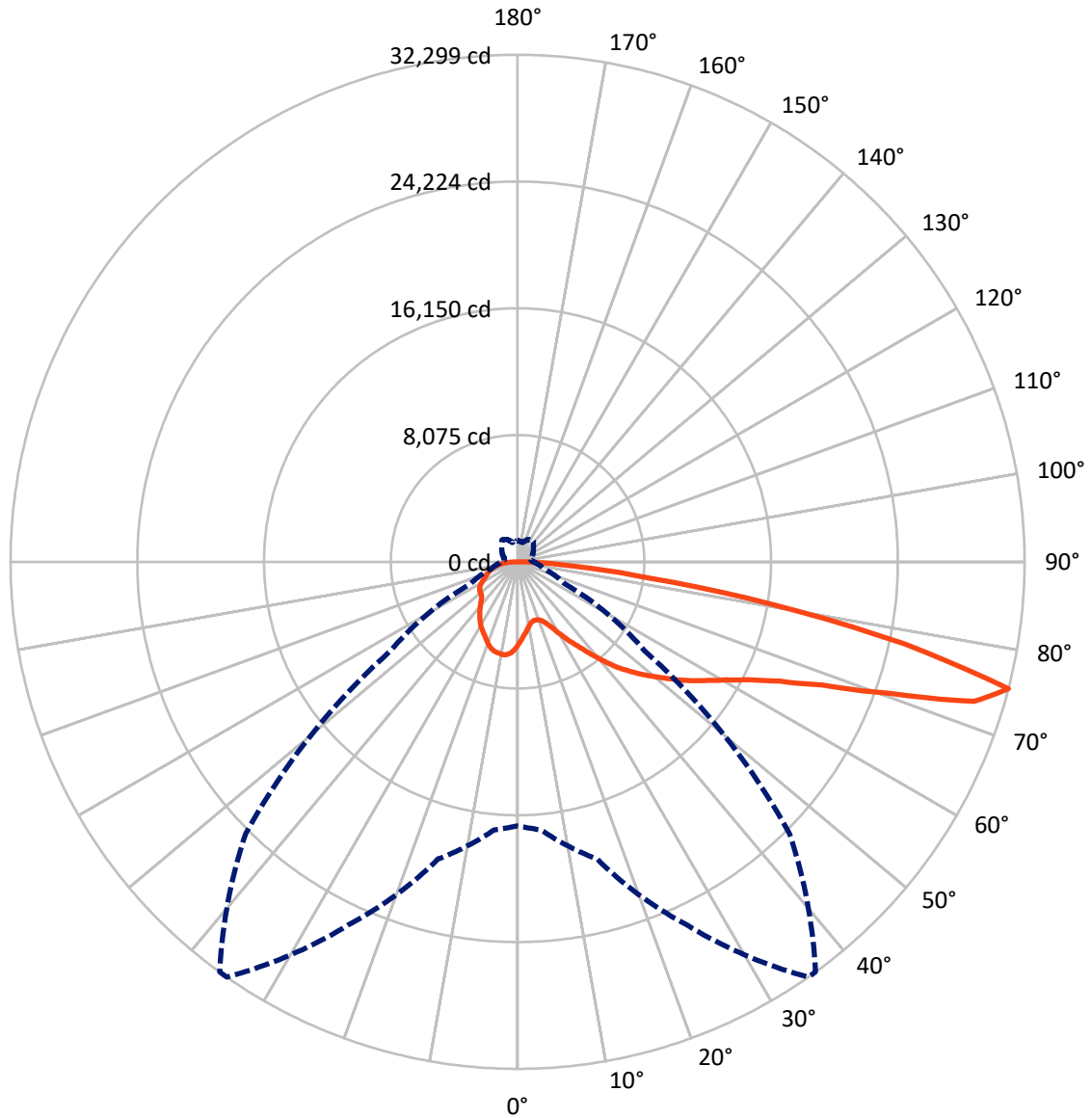
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9430.5 | 0.0 | 9430.5 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 30197.5 | 0.0 | 30197.5 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 39628.0 | 0.0 | 39628.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 500.0 | 1.3 |
| 10°-20° | 1442.2 | 3.6 |
| 20°-30° | 2421.7 | 6.1 |
| 30°-40° | 3763.7 | 9.5 |
| 40°-50° | 5586.4 | 14.1 |
| 50°-60° | 7712.3 | 19.5 |
| 60°-70° | 9356.8 | 23.6 |
| 70°-80° | 7732.7 | 19.5 |
| 80°-90° | 1112.2 | 2.8 |
| 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° | 39628.0 | 100.0 |
| 0°-180° | 39628.0 | 100.0 |

Coefficient of Utilization

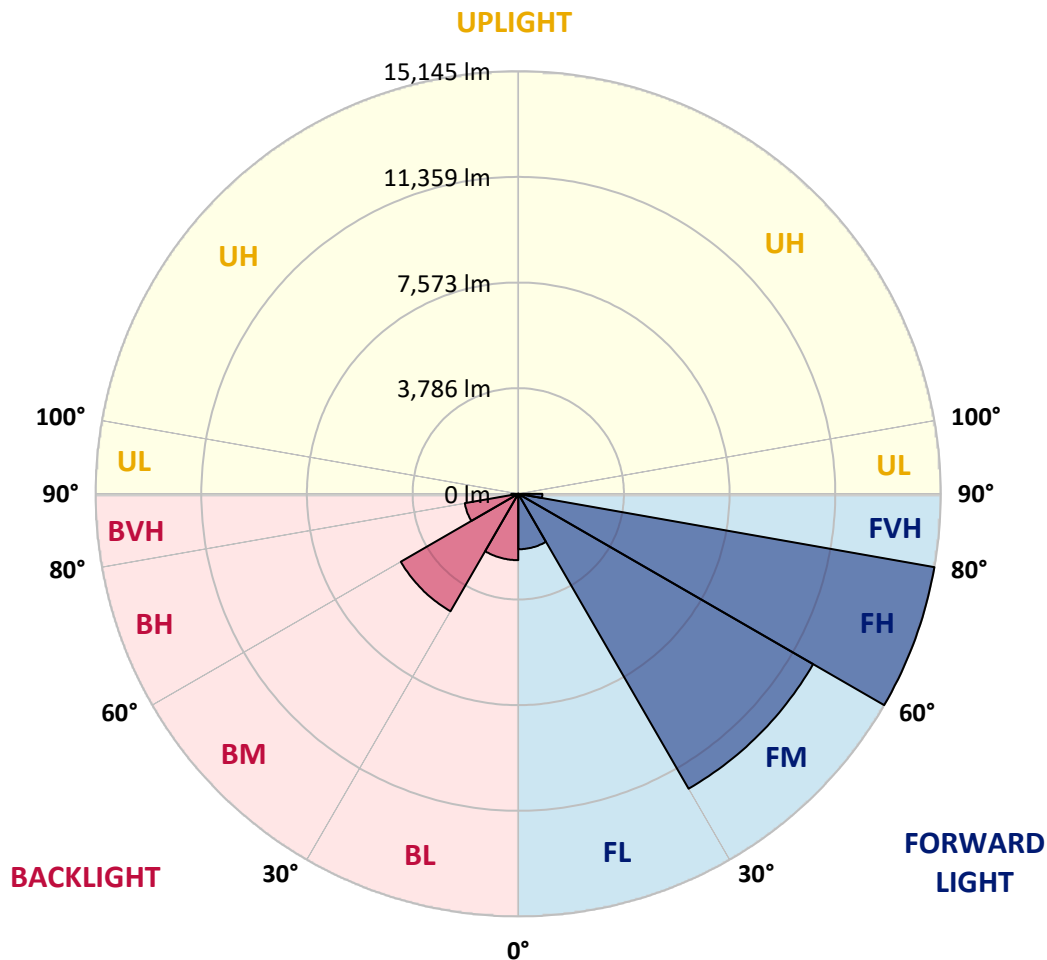


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1987.3 | 5.0 | | | |
| FM (30°-60°) | 12203.3 | 30.8 | | | |
| FH (60°-80°) | 15145.2 | 38.2 | | | G5 |
| FVH (80°-90°) | 861.8 | 2.2 | | | G5 |
| BL (0°-30°) | 2376.6 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 4859.2 | 12.3 | B3/5000 | | |
| BH (60°-80°) | 1944.3 | 4.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 250.4 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5280.7 | 5280.7 | 5280.7 | 5280.7 | 5280.7 | 5280.7 | 5280.7 | 5280.7 | 5280.7 | 5280.7 |
| 2.5° | 4869.4 | 4899.4 | 4912.2 | 4905.8 | 4937.9 | 4933.7 | 4978.6 | 5034.3 | 5111.5 | 5186.4 |
| 5° | 4494.5 | 4526.6 | 4554.5 | 4580.2 | 4642.3 | 4661.6 | 4732.3 | 4839.4 | 4980.8 | 5124.3 |
| 7.5° | 4145.3 | 4173.1 | 4216.0 | 4263.1 | 4368.1 | 4387.4 | 4505.2 | 4672.3 | 4869.4 | 5079.3 |
| 10° | 3860.4 | 3888.2 | 3933.2 | 3986.8 | 4117.4 | 4141.0 | 4291.0 | 4513.8 | 4770.8 | 5036.5 |
| 12.5° | 3738.3 | 3746.8 | 3772.5 | 3826.1 | 3939.6 | 3954.6 | 4119.6 | 4374.5 | 4674.4 | 5004.3 |
| 15° | 3731.8 | 3749.0 | 3751.1 | 3779.0 | 3873.2 | 3879.7 | 4031.8 | 4284.5 | 4614.5 | 4997.9 |
| 17.5° | 3796.1 | 3809.0 | 3789.7 | 3806.8 | 3886.1 | 3896.8 | 4016.8 | 4241.7 | 4595.2 | 5025.8 |
| 20° | 3967.5 | 3978.2 | 3920.4 | 3896.8 | 3954.6 | 3963.2 | 4081.0 | 4269.5 | 4614.5 | 5083.6 |
| 22.5° | 4331.7 | 4338.1 | 4196.7 | 4100.3 | 4104.6 | 4108.9 | 4211.7 | 4383.1 | 4689.4 | 5188.6 |
| 25° | 4899.4 | 4895.1 | 4670.2 | 4483.8 | 4376.7 | 4353.1 | 4421.6 | 4567.3 | 4815.8 | 5327.8 |
| 27.5° | 5563.5 | 5531.3 | 5306.4 | 5027.9 | 4794.4 | 4760.1 | 4745.1 | 4807.3 | 4995.8 | 5512.1 |
| 30° | 6313.3 | 6283.3 | 6041.2 | 5677.0 | 5353.5 | 5297.8 | 5156.4 | 5124.3 | 5263.6 | 5762.7 |
| 32.5° | 7135.9 | 7116.6 | 6827.4 | 6386.1 | 5953.4 | 5889.1 | 5651.3 | 5565.6 | 5674.9 | 6141.9 |
| 35° | 7825.7 | 7808.6 | 7568.6 | 7114.5 | 6585.3 | 6506.1 | 6264.0 | 6167.6 | 6223.3 | 6628.2 |
| 37.5° | 8449.1 | 8440.5 | 8234.9 | 7877.1 | 7330.9 | 7234.5 | 6962.4 | 6930.2 | 6919.5 | 7268.7 |
| 40° | 9027.5 | 9006.1 | 8791.9 | 8603.4 | 8198.5 | 8110.6 | 7870.7 | 7842.9 | 7761.4 | 8057.1 |
| 42.5° | 9668.1 | 9612.4 | 9301.7 | 9213.9 | 9104.7 | 9031.8 | 8888.3 | 8892.6 | 8712.6 | 8946.1 |
| 45° | 10190.8 | 10158.7 | 9839.5 | 9788.0 | 9905.9 | 9875.9 | 10000.1 | 10032.3 | 9683.1 | 9878.0 |
| 47.5° | 10752.1 | 10722.1 | 10452.1 | 10415.7 | 10734.9 | 10743.5 | 11182.7 | 11193.4 | 10630.0 | 10846.3 |
| 50° | 11444.0 | 11401.2 | 11133.4 | 11178.4 | 11536.1 | 11568.3 | 12371.6 | 12298.8 | 11501.9 | 11829.6 |
| 52.5° | 11900.3 | 11926.0 | 11868.2 | 11941.0 | 12429.5 | 12459.5 | 13541.3 | 13354.9 | 12365.2 | 12800.1 |
| 55° | 12236.7 | 12288.1 | 12468.0 | 12635.1 | 13372.1 | 13402.1 | 14644.6 | 14359.6 | 13080.7 | 13699.8 |
| 57.5° | 12669.4 | 12596.6 | 12932.9 | 13258.5 | 14267.5 | 14346.8 | 15717.8 | 15328.0 | 13714.8 | 14475.3 |
| 60° | 13290.7 | 13239.2 | 13500.6 | 13982.6 | 15270.1 | 15396.5 | 16853.2 | 16199.9 | 14179.7 | 15090.2 |
| 62.5° | 14550.3 | 14421.8 | 14462.5 | 14888.8 | 16534.1 | 16701.1 | 18134.3 | 16960.4 | 14411.1 | 15330.1 |
| 65° | 16433.4 | 16212.7 | 16007.1 | 16302.7 | 18314.3 | 18479.2 | 19580.4 | 17558.1 | 14325.4 | 14865.2 |
| 67.5° | 18804.9 | 18586.3 | 18333.6 | 18612.1 | 20936.4 | 21067.1 | 21364.9 | 17894.4 | 13650.6 | 13074.3 |
| 70° | 20760.8 | 20679.3 | 20981.4 | 22127.5 | 25124.6 | 25128.8 | 23652.8 | 17615.9 | 11801.8 | 9269.6 |
| 72.5° | 20501.5 | 20452.3 | 22044.0 | 25587.3 | 30403.1 | 30289.6 | 25818.7 | 15507.9 | 7950.0 | 4181.7 |
| 75° | 16819.0 | 17138.2 | 19603.9 | 25525.2 | 32299.0 | 32284.0 | 24492.6 | 9858.7 | 3288.4 | 1733.1 |
| 77.5° | 9019.0 | 9524.5 | 12727.2 | 18845.6 | 25214.5 | 25593.7 | 17219.6 | 3449.1 | 1411.8 | 1109.7 |
| 80° | 2941.3 | 3382.6 | 5072.9 | 9595.2 | 16384.1 | 16313.4 | 7380.1 | 1353.9 | 966.2 | 786.2 |
| 82.5° | 1248.9 | 1300.4 | 2266.5 | 4530.9 | 8408.4 | 8277.7 | 2350.1 | 777.6 | 679.1 | 537.7 |
| 85° | 488.4 | 546.3 | 1000.4 | 2095.1 | 3641.9 | 3562.6 | 848.3 | 385.6 | 434.9 | 351.3 |
| 87.5° | 160.7 | 194.9 | 357.8 | 717.7 | 1133.3 | 1092.6 | 207.8 | 132.8 | 188.5 | 160.7 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5280.7 | 0° | 5280.7 | 5280.7 | 5280.7 | 5280.7 | 5280.7 | 5280.7 | 5280.7 | 5280.7 | 5280.7 | 5280.7 |
| 5295.7 | 2.5° | 5325.7 | 5360.0 | 5400.7 | 5460.6 | 5512.1 | 5554.9 | 5599.9 | 5627.7 | 5638.5 | 5670.6 |
| 5304.3 | 5° | 5364.2 | 5439.2 | 5539.9 | 5638.5 | 5734.9 | 5792.7 | 5844.1 | 5869.8 | 5893.4 | 5910.5 |
| 5327.8 | 7.5° | 5428.5 | 5524.9 | 5683.4 | 5812.0 | 5893.4 | 5940.5 | 5974.8 | 5966.2 | 5974.8 | 5979.1 |
| 5353.5 | 10° | 5484.2 | 5619.2 | 5807.7 | 5929.8 | 5991.9 | 5994.1 | 5985.5 | 5955.5 | 5940.5 | 5942.7 |
| 5392.1 | 12.5° | 5550.6 | 5700.6 | 5904.1 | 6006.9 | 6024.1 | 5976.9 | 5940.5 | 5889.1 | 5869.8 | 5861.3 |
| 5449.9 | 15° | 5640.6 | 5812.0 | 6009.1 | 6047.6 | 6004.8 | 5944.8 | 5882.7 | 5799.1 | 5756.3 | 5722.0 |
| 5548.5 | 17.5° | 5749.9 | 5938.4 | 6090.5 | 6062.6 | 5970.5 | 5872.0 | 5771.3 | 5644.9 | 5557.1 | 5520.6 |
| 5683.4 | 20° | 5902.0 | 6071.2 | 6152.6 | 6030.5 | 5891.2 | 5741.3 | 5569.9 | 5415.7 | 5334.3 | 5297.8 |
| 5854.8 | 22.5° | 6086.2 | 6249.0 | 6212.6 | 5974.8 | 5777.7 | 5537.8 | 5323.5 | 5210.0 | 5169.3 | 5143.6 |
| 6075.5 | 25° | 6306.8 | 6446.1 | 6255.4 | 5893.4 | 5591.3 | 5267.8 | 5102.9 | 5066.5 | 5047.2 | 5027.9 |
| 6345.4 | 27.5° | 6593.9 | 6668.9 | 6287.6 | 5773.4 | 5300.0 | 4980.8 | 4920.8 | 4927.2 | 4920.8 | 4888.7 |
| 6720.3 | 30° | 6973.1 | 6958.1 | 6317.6 | 5578.5 | 4965.8 | 4721.6 | 4725.9 | 4753.7 | 4758.0 | 4736.6 |
| 7243.0 | 32.5° | 7472.2 | 7320.1 | 6332.6 | 5325.7 | 4646.6 | 4494.5 | 4498.8 | 4528.8 | 4550.2 | 4513.8 |
| 7926.4 | 35° | 8076.4 | 7742.2 | 6309.0 | 5008.6 | 4400.2 | 4278.1 | 4246.0 | 4254.6 | 4261.0 | 4226.7 |
| 8755.5 | 37.5° | 8781.2 | 8215.6 | 6204.0 | 4657.3 | 4196.7 | 4066.0 | 3997.5 | 3939.6 | 3905.4 | 3873.2 |
| 9693.8 | 40° | 9554.5 | 8731.9 | 6011.2 | 4314.5 | 3969.6 | 3841.1 | 3738.3 | 3629.0 | 3513.3 | 3470.5 |
| 10687.8 | 42.5° | 10364.3 | 9263.2 | 5777.7 | 3986.8 | 3708.3 | 3603.3 | 3494.0 | 3335.5 | 3162.0 | 3074.2 |
| 11720.4 | 45° | 11204.1 | 9807.3 | 5548.5 | 3663.3 | 3440.5 | 3395.5 | 3269.1 | 3078.4 | 2889.9 | 2778.5 |
| 12755.1 | 47.5° | 12026.7 | 10321.5 | 5212.1 | 3337.7 | 3189.8 | 3239.1 | 3140.6 | 2964.9 | 2755.0 | 2579.3 |
| 13781.2 | 50° | 12812.9 | 10803.5 | 4661.6 | 3007.7 | 2986.3 | 3192.0 | 3097.7 | 2844.9 | 2605.0 | 2380.1 |
| 14788.1 | 52.5° | 13592.7 | 11193.4 | 3956.8 | 2707.8 | 2877.1 | 3179.1 | 3042.0 | 2763.5 | 2470.0 | 2234.4 |
| 15735.0 | 55° | 14254.7 | 11394.7 | 3277.7 | 2450.8 | 2718.5 | 3069.9 | 2975.6 | 2667.1 | 2279.4 | 2028.7 |
| 16384.1 | 57.5° | 14631.7 | 11231.9 | 2712.1 | 2198.0 | 2500.0 | 2889.9 | 2862.1 | 2461.5 | 2052.3 | 1859.5 |
| 16510.5 | 60° | 14468.9 | 10572.1 | 2249.4 | 1977.3 | 2292.2 | 2695.0 | 2665.0 | 2258.0 | 1878.8 | 1696.7 |
| 15833.5 | 62.5° | 13571.3 | 9314.6 | 1883.1 | 1784.5 | 2103.7 | 2495.7 | 2467.9 | 2101.6 | 1746.0 | 1570.3 |
| 14036.2 | 65° | 11763.2 | 7577.2 | 1598.1 | 1623.8 | 1913.0 | 2255.8 | 2296.5 | 1970.9 | 1641.0 | 1469.6 |
| 10859.2 | 67.5° | 8971.8 | 5488.5 | 1375.3 | 1484.6 | 1726.7 | 2020.2 | 2138.0 | 1876.6 | 1553.1 | 1390.3 |
| 6283.3 | 70° | 5113.6 | 3117.0 | 1186.8 | 1349.6 | 1561.7 | 1801.7 | 2015.9 | 1801.7 | 1458.9 | 1323.9 |
| 2354.4 | 72.5° | 1938.8 | 1431.0 | 1026.1 | 1214.7 | 1403.2 | 1617.4 | 1880.9 | 1683.8 | 1349.6 | 1248.9 |
| 1216.8 | 75° | 1034.7 | 871.9 | 863.3 | 1056.1 | 1221.1 | 1437.5 | 1711.7 | 1568.1 | 1268.2 | 1319.6 |
| 841.9 | 77.5° | 704.8 | 617.0 | 721.9 | 904.0 | 1021.9 | 1238.2 | 1531.7 | 1392.5 | 1099.0 | 1094.7 |
| 582.7 | 80° | 488.4 | 437.0 | 587.0 | 728.4 | 790.5 | 1041.1 | 1336.8 | 1195.4 | 895.5 | 835.5 |
| 359.9 | 82.5° | 293.5 | 284.9 | 439.2 | 544.1 | 559.1 | 803.4 | 1107.6 | 1002.6 | 732.7 | 638.4 |
| 214.2 | 85° | 160.7 | 169.2 | 280.6 | 319.2 | 325.6 | 561.3 | 867.6 | 775.5 | 563.4 | 473.4 |
| 77.1 | 87.5° | 45.0 | 57.8 | 102.8 | 126.4 | 156.4 | 291.3 | 516.3 | 460.6 | 282.8 | 197.1 |
| 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° |
| <hr/> |
| 5280.7 |
| 5668.5 |
| 5914.8 |
| 5985.5 |
| 5946.9 |
| 5857.0 |
| 5732.7 |
| 5522.8 |
| 5293.6 |
| 5147.9 |
| 5027.9 |
| 4895.1 |
| 4747.3 |
| 4530.9 |
| 4250.3 |
| 3894.6 |
| 3489.8 |
| 3084.9 |
| 2770.0 |
| 2560.0 |
| 2360.8 |
| 2208.7 |
| 2007.3 |
| 1833.8 |
| 1671.0 |
| 1542.4 |
| 1441.7 |
| 1364.6 |
| 1306.8 |
| 1231.8 |
| 1362.5 |
| 1009.0 |
| 799.1 |
| 642.7 |
| 477.7 |
| 197.1 |
| 0.0 |

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