

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: P852905

Luminaire Tested: **GLAN-SB7B-735-U-T4FT**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852905
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-SB7B-735-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38841 lumens
Efficiency: N/A
Efficacy: 151.3 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

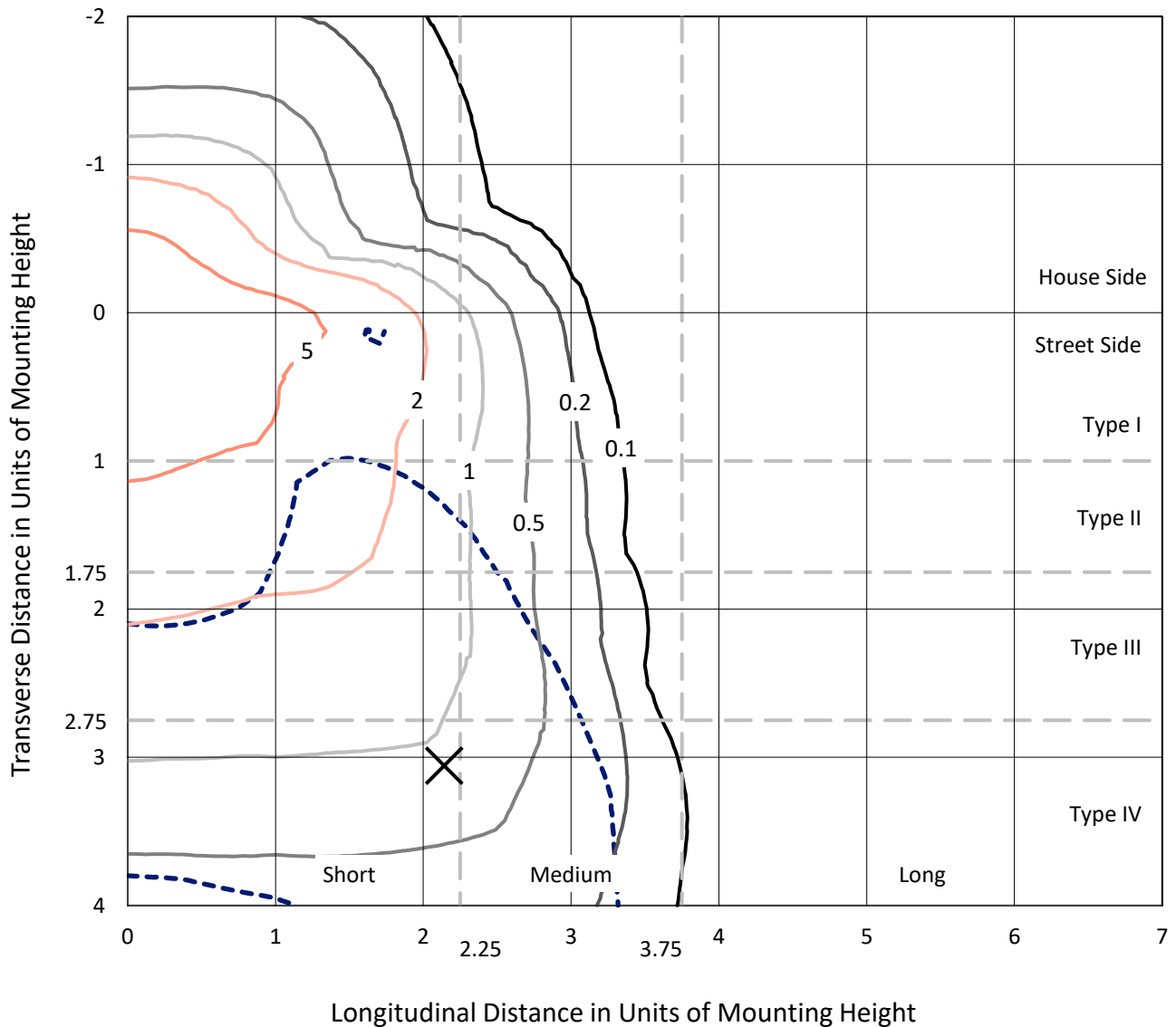
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

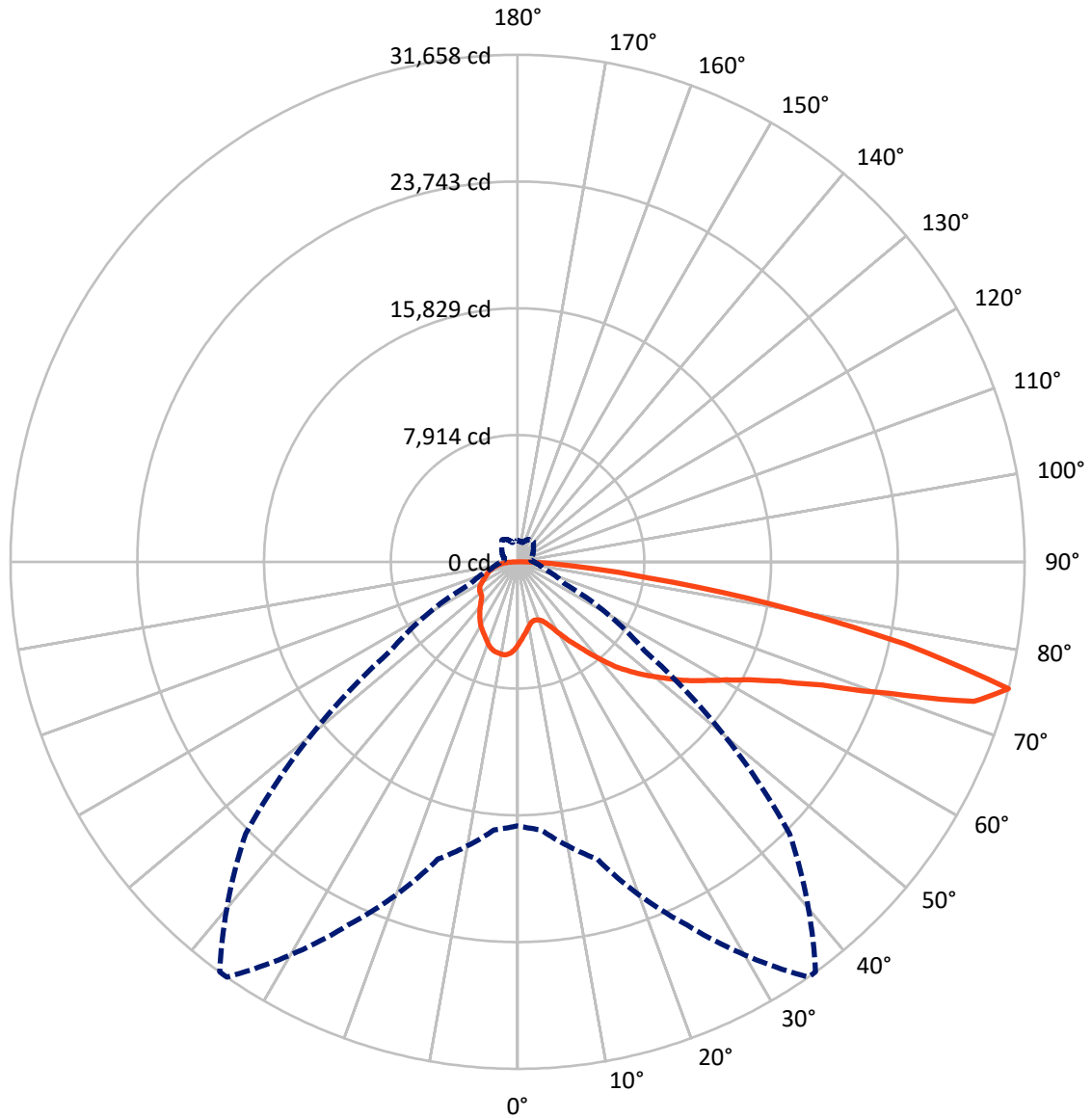
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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 | 9243.2 | 0.0 | 9243.2 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 29597.8 | 0.0 | 29597.8 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 38841.0 | 0.0 | 38841.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 490.0 | 1.3 |
| 10°-20° | 1413.5 | 3.6 |
| 20°-30° | 2373.6 | 6.1 |
| 30°-40° | 3689.0 | 9.5 |
| 40°-50° | 5475.4 | 14.1 |
| 50°-60° | 7559.2 | 19.5 |
| 60°-70° | 9171.0 | 23.6 |
| 70°-80° | 7579.1 | 19.5 |
| 80°-90° | 1090.1 | 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° | 38841.0 | 100.0 |
| 0°-180° | 38841.0 | 100.0 |

Coefficient of Utilization



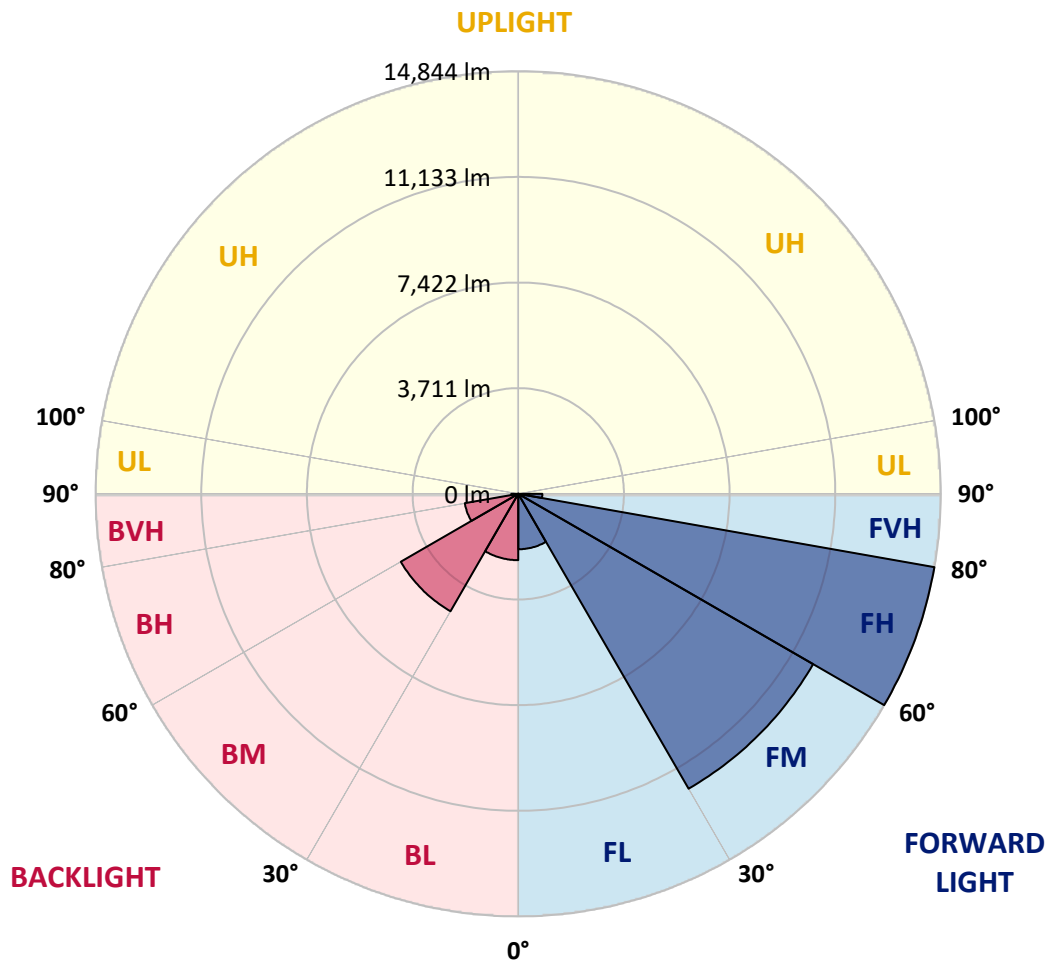
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1947.8 | 5.0 | | | |
| FM (30°-60°) | 11960.9 | 30.8 | | | |
| FH (60°-80°) | 14844.5 | 38.2 | | | G5 |
| FVH (80°-90°) | 844.6 | 2.2 | | | G5 |
| BL (0°-30°) | 2329.4 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 4762.7 | 12.3 | B3/5000 | | |
| BH (60°-80°) | 1905.7 | 4.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 245.5 | 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° | 5175.8 | 5175.8 | 5175.8 | 5175.8 | 5175.8 | 5175.8 | 5175.8 | 5175.8 | 5175.8 | 5175.8 |
| 2.5° | 4772.7 | 4802.1 | 4814.7 | 4808.4 | 4839.9 | 4835.7 | 4879.8 | 4934.4 | 5009.9 | 5083.4 |
| 5° | 4405.2 | 4436.7 | 4464.0 | 4489.2 | 4550.1 | 4569.0 | 4638.3 | 4743.3 | 4881.9 | 5022.5 |
| 7.5° | 4063.0 | 4090.3 | 4132.3 | 4178.5 | 4281.3 | 4300.2 | 4415.7 | 4579.5 | 4772.7 | 4978.5 |
| 10° | 3783.7 | 3811.0 | 3855.1 | 3907.6 | 4035.7 | 4058.8 | 4205.8 | 4424.1 | 4676.1 | 4936.5 |
| 12.5° | 3664.0 | 3672.4 | 3697.6 | 3750.1 | 3861.4 | 3876.1 | 4037.8 | 4287.6 | 4581.6 | 4905.0 |
| 15° | 3657.7 | 3674.5 | 3676.6 | 3703.9 | 3796.3 | 3802.6 | 3951.7 | 4199.5 | 4522.8 | 4898.7 |
| 17.5° | 3720.7 | 3733.3 | 3714.4 | 3731.2 | 3808.9 | 3819.4 | 3937.0 | 4157.5 | 4503.9 | 4926.0 |
| 20° | 3888.7 | 3899.2 | 3842.5 | 3819.4 | 3876.1 | 3884.5 | 4000.0 | 4184.8 | 4522.8 | 4982.7 |
| 22.5° | 4245.6 | 4251.9 | 4113.4 | 4018.9 | 4023.1 | 4027.3 | 4128.1 | 4296.0 | 4596.3 | 5085.5 |
| 25° | 4802.1 | 4797.9 | 4577.4 | 4394.7 | 4289.7 | 4266.6 | 4333.8 | 4476.6 | 4720.2 | 5222.0 |
| 27.5° | 5453.0 | 5421.5 | 5201.0 | 4928.1 | 4699.2 | 4665.6 | 4650.9 | 4711.8 | 4896.6 | 5402.6 |
| 30° | 6187.9 | 6158.5 | 5921.2 | 5564.3 | 5247.2 | 5192.6 | 5054.0 | 5022.5 | 5159.0 | 5648.3 |
| 32.5° | 6994.2 | 6975.3 | 6691.8 | 6259.3 | 5835.1 | 5772.1 | 5539.1 | 5455.1 | 5562.2 | 6019.9 |
| 35° | 7670.3 | 7653.5 | 7418.3 | 6973.2 | 6454.6 | 6376.9 | 6139.6 | 6045.1 | 6099.7 | 6496.6 |
| 37.5° | 8281.3 | 8272.9 | 8071.3 | 7720.7 | 7185.3 | 7090.8 | 6824.1 | 6792.6 | 6782.1 | 7124.4 |
| 40° | 8848.2 | 8827.3 | 8617.3 | 8432.5 | 8035.7 | 7949.6 | 7714.4 | 7687.1 | 7607.3 | 7897.1 |
| 42.5° | 9476.1 | 9421.5 | 9117.0 | 9030.9 | 8923.8 | 8852.4 | 8711.8 | 8716.0 | 8539.6 | 8768.5 |
| 45° | 9988.4 | 9956.9 | 9644.0 | 9593.7 | 9709.1 | 9679.7 | 9801.5 | 9833.0 | 9490.8 | 9681.8 |
| 47.5° | 10538.5 | 10509.1 | 10244.6 | 10208.9 | 10521.7 | 10530.1 | 10960.6 | 10971.1 | 10418.8 | 10630.9 |
| 50° | 11216.7 | 11174.7 | 10912.3 | 10956.4 | 11307.0 | 11338.5 | 12125.9 | 12054.5 | 11273.4 | 11594.7 |
| 52.5° | 11664.0 | 11689.2 | 11632.5 | 11703.9 | 12182.6 | 12212.0 | 13272.4 | 13089.7 | 12119.6 | 12545.9 |
| 55° | 11993.6 | 12044.0 | 12220.4 | 12384.2 | 13106.5 | 13135.9 | 14353.7 | 14074.5 | 12820.9 | 13427.8 |
| 57.5° | 12417.8 | 12346.4 | 12676.0 | 12995.2 | 13984.2 | 14061.9 | 15405.7 | 15023.5 | 13442.4 | 14187.9 |
| 60° | 13026.7 | 12976.3 | 13232.5 | 13704.9 | 14966.9 | 15090.7 | 16518.5 | 15878.1 | 13898.1 | 14790.5 |
| 62.5° | 14261.3 | 14135.4 | 14175.3 | 14593.1 | 16205.7 | 16369.5 | 17774.2 | 16623.5 | 14124.9 | 15025.6 |
| 65° | 16107.0 | 15890.7 | 15689.2 | 15978.9 | 17950.6 | 18112.2 | 19191.5 | 17209.4 | 14040.9 | 14570.0 |
| 67.5° | 18431.4 | 18217.2 | 17969.5 | 18242.4 | 20520.6 | 20648.7 | 20940.6 | 17539.0 | 13379.5 | 12814.6 |
| 70° | 20348.5 | 20268.7 | 20564.7 | 21688.1 | 24625.6 | 24629.8 | 23183.1 | 17266.1 | 11567.4 | 9085.5 |
| 72.5° | 20094.4 | 20046.1 | 21606.2 | 25079.1 | 29799.3 | 29688.0 | 25305.9 | 15199.9 | 7792.1 | 4098.7 |
| 75° | 16485.0 | 16797.8 | 19214.6 | 25018.2 | 31657.6 | 31642.9 | 24006.2 | 9662.9 | 3223.1 | 1698.7 |
| 77.5° | 8839.8 | 9335.4 | 12474.5 | 18471.3 | 24713.8 | 25085.4 | 16877.6 | 3380.6 | 1383.7 | 1087.7 |
| 80° | 2882.9 | 3315.5 | 4972.2 | 9404.7 | 16058.7 | 15989.4 | 7233.6 | 1327.0 | 947.0 | 770.6 |
| 82.5° | 1224.1 | 1274.5 | 2221.5 | 4440.9 | 8241.4 | 8113.3 | 2303.4 | 762.2 | 665.6 | 527.0 |
| 85° | 478.7 | 535.4 | 980.6 | 2053.5 | 3569.5 | 3491.8 | 831.5 | 378.0 | 426.2 | 344.4 |
| 87.5° | 157.5 | 191.1 | 350.7 | 703.4 | 1110.8 | 1070.9 | 203.7 | 130.2 | 184.8 | 157.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P852905
 CATALOG NUMBER: GLAN-SB7B-735-U-T4FT

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5175.8 | 0° | 5175.8 | 5175.8 | 5175.8 | 5175.8 | 5175.8 | 5175.8 | 5175.8 | 5175.8 | 5175.8 | 5175.8 |
| 5190.5 | 2.5° | 5219.9 | 5253.5 | 5293.4 | 5352.2 | 5402.6 | 5444.6 | 5488.7 | 5516.0 | 5526.5 | 5558.0 |
| 5198.9 | 5° | 5257.7 | 5331.2 | 5429.9 | 5526.5 | 5621.0 | 5677.7 | 5728.1 | 5753.3 | 5776.3 | 5793.1 |
| 5222.0 | 7.5° | 5320.7 | 5415.2 | 5570.6 | 5696.6 | 5776.3 | 5822.5 | 5856.1 | 5847.7 | 5856.1 | 5860.3 |
| 5247.2 | 10° | 5375.3 | 5507.6 | 5692.4 | 5812.0 | 5872.9 | 5875.0 | 5866.6 | 5837.2 | 5822.5 | 5824.6 |
| 5285.0 | 12.5° | 5440.4 | 5587.4 | 5786.8 | 5887.6 | 5904.4 | 5858.2 | 5822.5 | 5772.1 | 5753.3 | 5744.9 |
| 5341.7 | 15° | 5528.6 | 5696.6 | 5889.7 | 5927.5 | 5885.5 | 5826.7 | 5765.8 | 5684.0 | 5642.0 | 5608.4 |
| 5438.3 | 17.5° | 5635.7 | 5820.4 | 5969.5 | 5942.2 | 5851.9 | 5755.4 | 5656.7 | 5532.8 | 5446.7 | 5411.0 |
| 5570.6 | 20° | 5784.7 | 5950.6 | 6030.4 | 5910.7 | 5774.2 | 5627.3 | 5459.3 | 5308.1 | 5228.3 | 5192.6 |
| 5738.6 | 22.5° | 5965.3 | 6124.9 | 6089.2 | 5856.1 | 5663.0 | 5427.8 | 5217.8 | 5106.5 | 5066.6 | 5041.4 |
| 5954.8 | 25° | 6181.6 | 6318.1 | 6131.2 | 5776.3 | 5480.3 | 5163.2 | 5001.5 | 4965.9 | 4947.0 | 4928.1 |
| 6219.4 | 27.5° | 6463.0 | 6536.4 | 6162.7 | 5658.8 | 5194.7 | 4881.9 | 4823.1 | 4829.4 | 4823.1 | 4791.6 |
| 6586.8 | 30° | 6834.6 | 6819.9 | 6192.1 | 5467.7 | 4867.2 | 4627.8 | 4632.0 | 4659.3 | 4663.5 | 4642.5 |
| 7099.2 | 32.5° | 7323.8 | 7174.8 | 6206.8 | 5219.9 | 4554.3 | 4405.2 | 4409.4 | 4438.8 | 4459.8 | 4424.1 |
| 7769.0 | 35° | 7916.0 | 7588.4 | 6183.7 | 4909.2 | 4312.8 | 4193.2 | 4161.7 | 4170.1 | 4176.4 | 4142.8 |
| 8581.6 | 37.5° | 8606.8 | 8052.5 | 6080.8 | 4564.8 | 4113.4 | 3985.3 | 3918.1 | 3861.4 | 3827.8 | 3796.3 |
| 9501.3 | 40° | 9364.8 | 8558.5 | 5891.8 | 4228.8 | 3890.8 | 3764.8 | 3664.0 | 3556.9 | 3443.6 | 3401.6 |
| 10475.5 | 42.5° | 10158.5 | 9079.2 | 5663.0 | 3907.6 | 3634.6 | 3531.7 | 3424.7 | 3269.3 | 3099.2 | 3013.1 |
| 11487.6 | 45° | 10981.6 | 9612.5 | 5438.3 | 3590.5 | 3372.2 | 3328.1 | 3204.2 | 3017.3 | 2832.5 | 2723.3 |
| 12501.8 | 47.5° | 11787.9 | 10116.5 | 5108.6 | 3271.4 | 3126.5 | 3174.8 | 3078.2 | 2906.0 | 2700.2 | 2528.1 |
| 13507.5 | 50° | 12558.5 | 10588.9 | 4569.0 | 2948.0 | 2927.0 | 3128.6 | 3036.2 | 2788.4 | 2553.3 | 2332.8 |
| 14494.4 | 52.5° | 13322.8 | 10971.1 | 3878.2 | 2654.1 | 2819.9 | 3116.0 | 2981.6 | 2708.6 | 2421.0 | 2190.0 |
| 15422.5 | 55° | 13971.6 | 11168.4 | 3212.6 | 2402.1 | 2664.6 | 3008.9 | 2916.5 | 2614.2 | 2234.1 | 1988.4 |
| 16058.7 | 57.5° | 14341.1 | 11008.9 | 2658.3 | 2154.3 | 2450.4 | 2832.5 | 2805.2 | 2412.6 | 2011.5 | 1822.6 |
| 16182.6 | 60° | 14181.6 | 10362.2 | 2204.7 | 1938.0 | 2246.7 | 2641.5 | 2612.1 | 2213.1 | 1841.5 | 1663.0 |
| 15519.1 | 62.5° | 13301.8 | 9129.6 | 1845.7 | 1749.1 | 2061.9 | 2446.2 | 2418.9 | 2059.8 | 1711.3 | 1539.1 |
| 13757.4 | 65° | 11529.6 | 7426.7 | 1566.4 | 1591.6 | 1875.1 | 2211.0 | 2250.9 | 1931.7 | 1608.4 | 1440.4 |
| 10643.5 | 67.5° | 8793.7 | 5379.5 | 1348.0 | 1455.1 | 1692.4 | 1980.0 | 2095.5 | 1839.4 | 1522.3 | 1362.7 |
| 6158.5 | 70° | 5012.0 | 3055.1 | 1163.2 | 1322.8 | 1530.7 | 1765.9 | 1975.8 | 1765.9 | 1429.9 | 1297.6 |
| 2307.6 | 72.5° | 1900.3 | 1402.6 | 1005.8 | 1190.5 | 1375.3 | 1585.3 | 1843.6 | 1650.4 | 1322.8 | 1224.1 |
| 1192.6 | 75° | 1014.2 | 854.6 | 846.2 | 1035.2 | 1196.8 | 1408.9 | 1677.7 | 1537.0 | 1243.0 | 1293.4 |
| 825.2 | 77.5° | 690.8 | 604.7 | 707.6 | 886.1 | 1001.6 | 1213.6 | 1501.3 | 1364.8 | 1077.2 | 1073.0 |
| 571.1 | 80° | 478.7 | 428.3 | 575.3 | 713.9 | 774.8 | 1020.5 | 1310.2 | 1171.6 | 877.7 | 818.9 |
| 352.8 | 82.5° | 287.7 | 279.3 | 430.4 | 533.3 | 548.0 | 787.4 | 1085.6 | 982.7 | 718.1 | 625.7 |
| 210.0 | 85° | 157.5 | 165.9 | 275.1 | 312.9 | 319.2 | 550.1 | 850.4 | 760.1 | 552.2 | 464.0 |
| 75.6 | 87.5° | 44.1 | 56.7 | 100.8 | 123.9 | 153.3 | 285.6 | 506.0 | 451.4 | 277.2 | 193.2 |
| 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° |
|--------|
| 5175.8 |
| 5555.9 |
| 5797.3 |
| 5866.6 |
| 5828.8 |
| 5740.7 |
| 5618.9 |
| 5413.1 |
| 5188.4 |
| 5045.6 |
| 4928.1 |
| 4797.9 |
| 4653.0 |
| 4440.9 |
| 4165.9 |
| 3817.3 |
| 3420.5 |
| 3023.6 |
| 2714.9 |
| 2509.2 |
| 2313.9 |
| 2164.8 |
| 1967.4 |
| 1797.4 |
| 1637.8 |
| 1511.8 |
| 1413.1 |
| 1337.5 |
| 1280.8 |
| 1207.3 |
| 1335.4 |
| 989.0 |
| 783.2 |
| 629.9 |
| 468.2 |
| 193.2 |
| 0.0 |

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