

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: McGRAW-EDISON

Report Number: P941849

Luminaire Tested: **GALN-SB5C-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5C-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32514 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

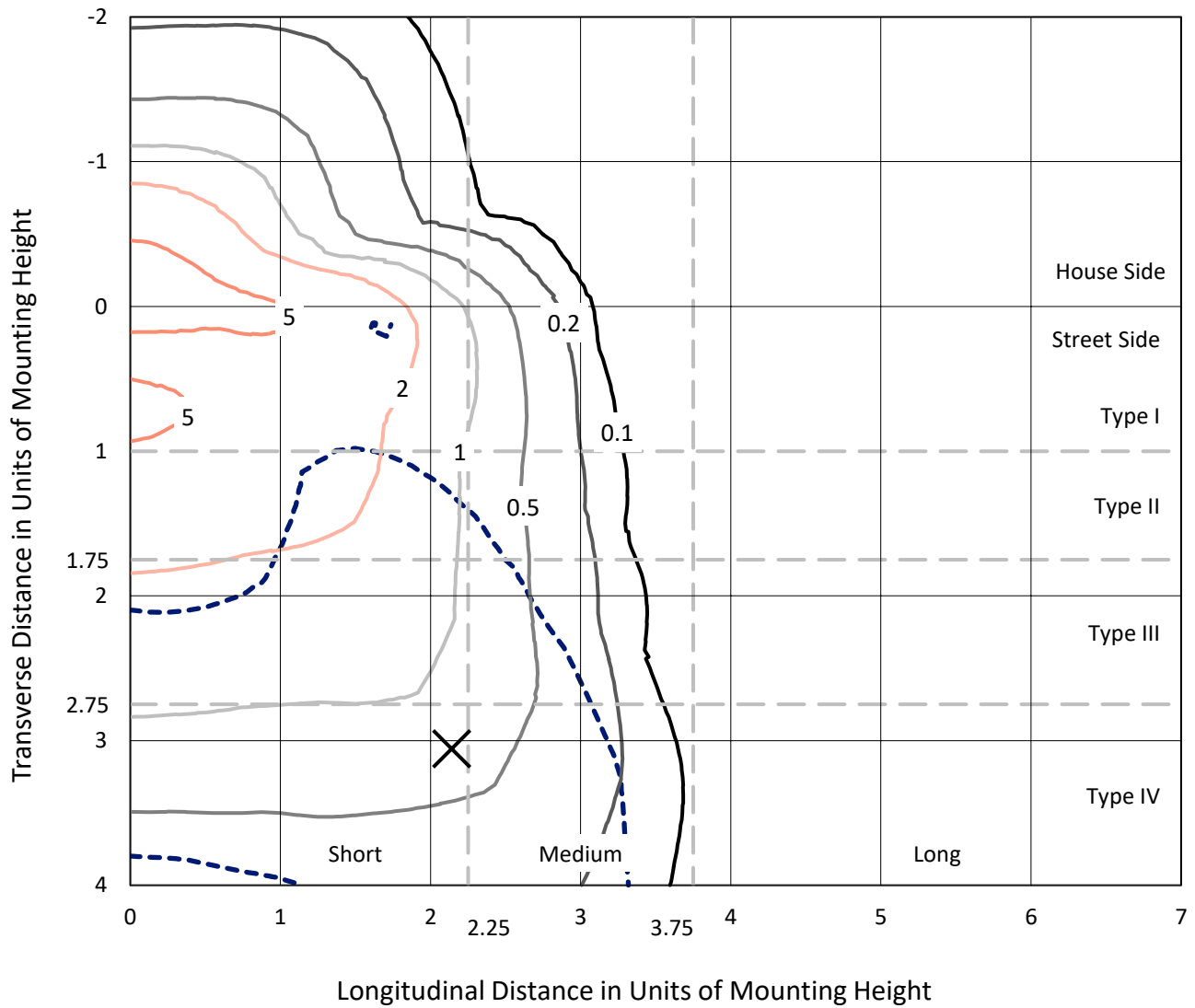
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

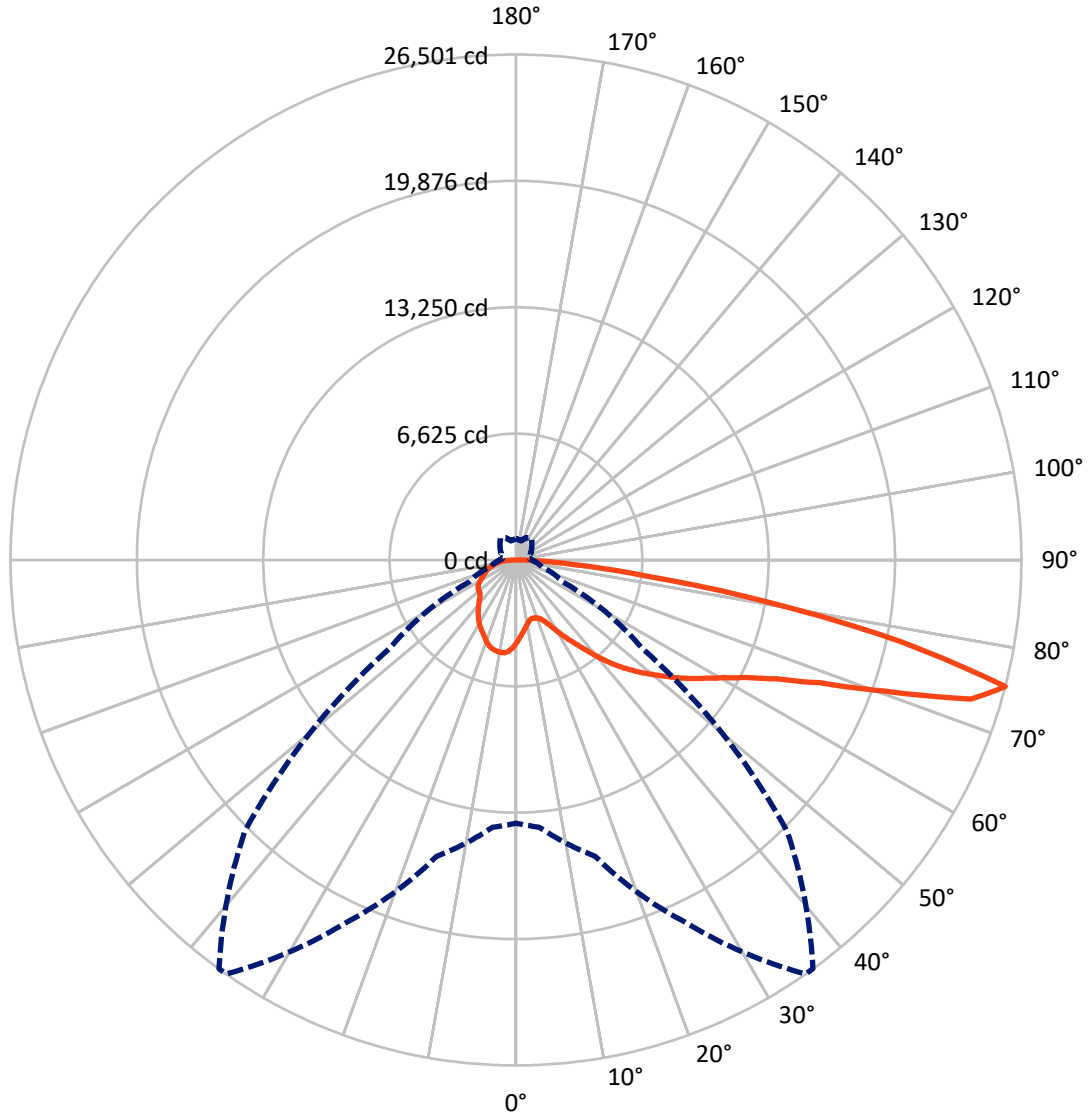
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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 | 7737.5 | 0.0 | 7737.5 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 24776.5 | 0.0 | 24776.5 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 32514.0 | 0.0 | 32514.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 410.2 | 1.3 |
| 10°-20° | 1183.3 | 3.6 |
| 20°-30° | 1987.0 | 6.1 |
| 30°-40° | 3088.1 | 9.5 |
| 40°-50° | 4583.5 | 14.1 |
| 50°-60° | 6327.8 | 19.5 |
| 60°-70° | 7677.1 | 23.6 |
| 70°-80° | 6344.5 | 19.5 |
| 80°-90° | 912.5 | 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° | 32514.0 | 100.0 |
| 0°-180° | 32514.0 | 100.0 |



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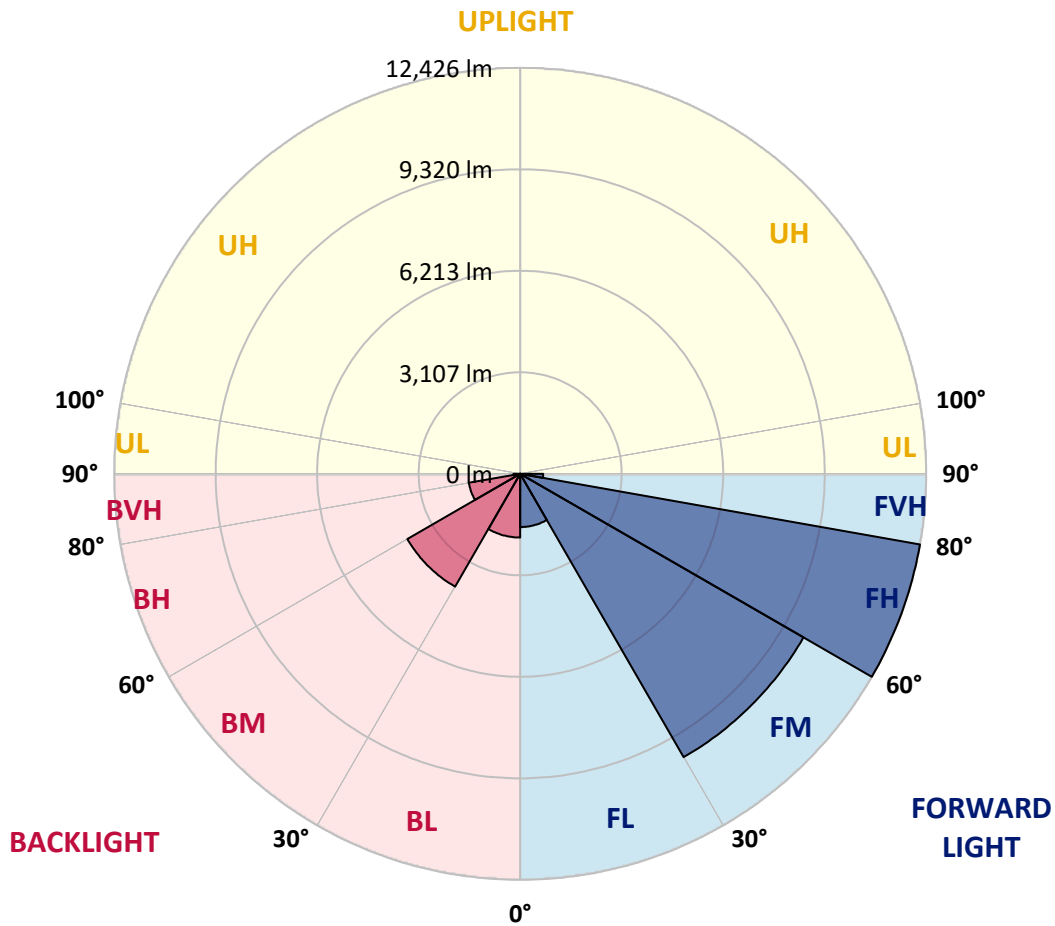
CATALOG NUMBER: GALN-SB5C-827-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1630.5 | 5.0 | | | |
| FM (30°-60°) | 10012.6 | 30.8 | | | |
| FH (60°-80°) | 12426.4 | 38.2 | | | G5 |
| FVH (80°-90°) | 707.1 | 2.2 | | | G4/750 |
| BL (0°-30°) | 1950.0 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 3986.8 | 12.3 | B3/5000 | | |
| BH (60°-80°) | 1595.2 | 4.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 205.5 | 0.6 | | | G2/225 |
| 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° | 4332.7 | 4332.7 | 4332.7 | 4332.7 | 4332.7 | 4332.7 | 4332.7 | 4332.7 | 4332.7 | 4332.7 |
| 2.5° | 3995.2 | 4019.8 | 4030.4 | 4025.1 | 4051.5 | 4048.0 | 4084.9 | 4130.6 | 4193.9 | 4255.4 |
| 5° | 3687.6 | 3714.0 | 3736.9 | 3757.9 | 3808.9 | 3824.7 | 3882.7 | 3970.6 | 4086.6 | 4204.4 |
| 7.5° | 3401.1 | 3424.0 | 3459.1 | 3497.8 | 3583.9 | 3599.8 | 3696.4 | 3833.5 | 3995.2 | 4167.5 |
| 10° | 3167.4 | 3190.2 | 3227.1 | 3271.1 | 3378.3 | 3397.6 | 3520.7 | 3703.5 | 3914.4 | 4132.3 |
| 12.5° | 3067.2 | 3074.2 | 3095.3 | 3139.2 | 3232.4 | 3244.7 | 3380.0 | 3589.2 | 3835.3 | 4106.0 |
| 15° | 3061.9 | 3076.0 | 3077.7 | 3100.6 | 3177.9 | 3183.2 | 3308.0 | 3515.4 | 3786.1 | 4100.7 |
| 17.5° | 3114.6 | 3125.2 | 3109.4 | 3123.4 | 3188.5 | 3197.2 | 3295.7 | 3480.2 | 3770.2 | 4123.5 |
| 20° | 3255.2 | 3264.0 | 3216.6 | 3197.2 | 3244.7 | 3251.7 | 3348.4 | 3503.1 | 3786.1 | 4171.0 |
| 22.5° | 3554.1 | 3559.3 | 3443.3 | 3364.2 | 3367.7 | 3371.3 | 3455.6 | 3596.2 | 3847.6 | 4257.1 |
| 25° | 4019.8 | 4016.3 | 3831.8 | 3678.8 | 3591.0 | 3571.6 | 3627.9 | 3747.4 | 3951.3 | 4371.4 |
| 27.5° | 4564.7 | 4538.4 | 4353.8 | 4125.3 | 3933.7 | 3905.6 | 3893.3 | 3944.3 | 4098.9 | 4522.5 |
| 30° | 5179.9 | 5155.3 | 4956.7 | 4657.9 | 4392.5 | 4346.8 | 4230.8 | 4204.4 | 4318.6 | 4728.2 |
| 32.5° | 5854.9 | 5839.1 | 5601.8 | 5239.7 | 4884.6 | 4831.9 | 4636.8 | 4566.5 | 4656.1 | 5039.3 |
| 35° | 6420.8 | 6406.8 | 6209.9 | 5837.3 | 5403.1 | 5338.1 | 5139.5 | 5060.4 | 5106.1 | 5438.3 |
| 37.5° | 6932.3 | 6925.3 | 6756.6 | 6463.0 | 6014.8 | 5935.7 | 5712.5 | 5686.1 | 5677.3 | 5963.8 |
| 40° | 7406.9 | 7389.3 | 7213.6 | 7058.9 | 6726.7 | 6654.6 | 6457.8 | 6434.9 | 6368.1 | 6610.7 |
| 42.5° | 7932.5 | 7886.8 | 7631.9 | 7559.8 | 7470.2 | 7410.4 | 7292.7 | 7296.2 | 7148.5 | 7340.1 |
| 45° | 8361.3 | 8335.0 | 8073.1 | 8030.9 | 8127.6 | 8103.0 | 8204.9 | 8231.3 | 7944.8 | 8104.7 |
| 47.5° | 8821.9 | 8797.2 | 8575.8 | 8545.9 | 8807.8 | 8814.8 | 9175.2 | 9183.9 | 8721.7 | 8899.2 |
| 50° | 9389.6 | 9354.4 | 9134.7 | 9171.6 | 9465.2 | 9491.5 | 10150.7 | 10090.9 | 9437.0 | 9706.0 |
| 52.5° | 9764.0 | 9785.1 | 9737.6 | 9797.4 | 10198.1 | 10222.7 | 11110.4 | 10957.5 | 10145.4 | 10502.2 |
| 55° | 10039.9 | 10082.1 | 10229.8 | 10366.9 | 10971.5 | 10996.1 | 12015.6 | 11781.8 | 10732.5 | 11240.4 |
| 57.5° | 10395.0 | 10335.2 | 10611.2 | 10878.4 | 11706.2 | 11771.3 | 12896.2 | 12576.3 | 11252.7 | 11876.7 |
| 60° | 10904.7 | 10862.5 | 11077.0 | 11472.5 | 12528.8 | 12632.5 | 13827.8 | 13291.7 | 11634.2 | 12381.2 |
| 62.5° | 11938.2 | 11832.8 | 11866.2 | 12216.0 | 13565.9 | 13703.0 | 14878.9 | 13915.6 | 11824.0 | 12578.0 |
| 65° | 13483.3 | 13302.2 | 13133.5 | 13376.0 | 15026.5 | 15161.9 | 16065.3 | 14406.0 | 11753.7 | 12196.6 |
| 67.5° | 15429.0 | 15249.7 | 15042.3 | 15270.8 | 17177.9 | 17285.1 | 17529.5 | 14682.0 | 11200.0 | 10727.2 |
| 70° | 17033.8 | 16967.0 | 17214.8 | 18155.2 | 20614.2 | 20617.7 | 19406.7 | 14453.5 | 9683.1 | 7605.5 |
| 72.5° | 16821.1 | 16780.7 | 18086.6 | 20993.9 | 24945.2 | 24852.0 | 21183.7 | 12723.9 | 6522.8 | 3431.0 |
| 75° | 13799.6 | 14061.5 | 16084.6 | 20942.9 | 26500.7 | 26488.4 | 20095.7 | 8088.9 | 2698.1 | 1422.0 |
| 77.5° | 7399.9 | 7814.7 | 10442.4 | 15462.4 | 20688.0 | 20999.1 | 14128.3 | 2829.9 | 1158.3 | 910.5 |
| 80° | 2413.3 | 2775.4 | 4162.2 | 7872.7 | 13442.8 | 13384.8 | 6055.2 | 1110.9 | 792.7 | 645.1 |
| 82.5° | 1024.7 | 1066.9 | 1859.6 | 3717.5 | 6898.9 | 6791.7 | 1928.2 | 638.0 | 557.2 | 441.2 |
| 85° | 400.8 | 448.2 | 820.8 | 1719.0 | 2988.1 | 2923.0 | 696.0 | 316.4 | 356.8 | 288.3 |
| 87.5° | 131.8 | 159.9 | 293.5 | 588.8 | 929.8 | 896.4 | 170.5 | 109.0 | 154.7 | 131.8 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4332.7 | 0° | 4332.7 | 4332.7 | 4332.7 | 4332.7 | 4332.7 | 4332.7 | 4332.7 | 4332.7 | 4332.7 | 4332.7 |
| 4345.0 | 2.5° | 4369.6 | 4397.7 | 4431.1 | 4480.4 | 4522.5 | 4557.7 | 4594.6 | 4617.5 | 4626.2 | 4652.6 |
| 4352.0 | 5° | 4401.3 | 4462.8 | 4545.4 | 4626.2 | 4705.3 | 4752.8 | 4795.0 | 4816.1 | 4835.4 | 4849.5 |
| 4371.4 | 7.5° | 4454.0 | 4533.1 | 4663.2 | 4768.6 | 4835.4 | 4874.1 | 4902.2 | 4895.2 | 4902.2 | 4905.7 |
| 4392.5 | 10° | 4499.7 | 4610.4 | 4765.1 | 4865.3 | 4916.3 | 4918.0 | 4911.0 | 4886.4 | 4874.1 | 4875.8 |
| 4424.1 | 12.5° | 4554.2 | 4677.2 | 4844.2 | 4928.6 | 4942.6 | 4904.0 | 4874.1 | 4831.9 | 4816.1 | 4809.0 |
| 4471.6 | 15° | 4628.0 | 4768.6 | 4930.3 | 4962.0 | 4926.8 | 4877.6 | 4826.6 | 4758.1 | 4722.9 | 4694.8 |
| 4552.4 | 17.5° | 4717.6 | 4872.3 | 4997.1 | 4974.3 | 4898.7 | 4817.8 | 4735.2 | 4631.5 | 4559.5 | 4529.6 |
| 4663.2 | 20° | 4842.4 | 4981.3 | 5048.1 | 4947.9 | 4833.7 | 4710.6 | 4570.0 | 4443.4 | 4376.7 | 4346.8 |
| 4803.8 | 22.5° | 4993.6 | 5127.2 | 5097.3 | 4902.2 | 4740.5 | 4543.6 | 4367.9 | 4274.7 | 4241.3 | 4220.2 |
| 4984.8 | 25° | 5174.6 | 5288.9 | 5132.5 | 4835.4 | 4587.6 | 4322.2 | 4186.8 | 4156.9 | 4141.1 | 4125.3 |
| 5206.3 | 27.5° | 5410.2 | 5471.7 | 5158.8 | 4737.0 | 4348.5 | 4086.6 | 4037.4 | 4042.7 | 4037.4 | 4011.1 |
| 5513.9 | 30° | 5721.3 | 5709.0 | 5183.4 | 4577.0 | 4074.3 | 3874.0 | 3877.5 | 3900.3 | 3903.8 | 3886.3 |
| 5942.8 | 32.5° | 6130.8 | 6006.0 | 5195.7 | 4369.6 | 3812.4 | 3687.6 | 3691.2 | 3715.8 | 3733.3 | 3703.5 |
| 6503.5 | 35° | 6626.5 | 6352.3 | 5176.4 | 4109.5 | 3610.3 | 3510.1 | 3483.7 | 3490.8 | 3496.0 | 3467.9 |
| 7183.7 | 37.5° | 7204.8 | 6740.7 | 5090.3 | 3821.2 | 3443.3 | 3336.1 | 3279.9 | 3232.4 | 3204.3 | 3177.9 |
| 7953.6 | 40° | 7839.3 | 7164.4 | 4932.1 | 3540.0 | 3257.0 | 3151.5 | 3067.2 | 2977.5 | 2882.6 | 2847.5 |
| 8769.1 | 42.5° | 8503.7 | 7600.3 | 4740.5 | 3271.1 | 3042.6 | 2956.4 | 2866.8 | 2736.7 | 2594.4 | 2522.3 |
| 9616.3 | 45° | 9192.7 | 8046.7 | 4552.4 | 3005.7 | 2822.9 | 2785.9 | 2682.2 | 2525.8 | 2371.1 | 2279.7 |
| 10465.3 | 47.5° | 9867.7 | 8468.6 | 4276.5 | 2738.5 | 2617.2 | 2657.6 | 2576.8 | 2432.6 | 2260.4 | 2116.3 |
| 11307.2 | 50° | 10512.8 | 8864.0 | 3824.7 | 2467.8 | 2450.2 | 2619.0 | 2541.6 | 2334.2 | 2137.4 | 1952.8 |
| 12133.3 | 52.5° | 11152.6 | 9183.9 | 3246.5 | 2221.7 | 2360.6 | 2608.4 | 2495.9 | 2267.4 | 2026.6 | 1833.3 |
| 12910.2 | 55° | 11695.7 | 9349.2 | 2689.3 | 2010.8 | 2230.5 | 2518.8 | 2441.4 | 2188.3 | 1870.2 | 1664.5 |
| 13442.8 | 57.5° | 12005.0 | 9215.6 | 2225.2 | 1803.4 | 2051.2 | 2371.1 | 2348.3 | 2019.6 | 1683.9 | 1525.7 |
| 13546.5 | 60° | 11871.5 | 8674.2 | 1845.6 | 1622.3 | 1880.7 | 2211.2 | 2186.6 | 1852.6 | 1541.5 | 1392.1 |
| 12991.1 | 62.5° | 11135.0 | 7642.4 | 1545.0 | 1464.2 | 1726.1 | 2047.7 | 2024.9 | 1724.3 | 1432.5 | 1288.4 |
| 11516.4 | 65° | 9651.5 | 6217.0 | 1311.2 | 1332.3 | 1569.6 | 1850.8 | 1884.2 | 1617.1 | 1346.4 | 1205.8 |
| 8909.7 | 67.5° | 7361.2 | 4503.2 | 1128.4 | 1218.1 | 1416.7 | 1657.5 | 1754.2 | 1539.7 | 1274.3 | 1140.7 |
| 5155.3 | 70° | 4195.6 | 2557.4 | 973.8 | 1107.3 | 1281.4 | 1478.2 | 1654.0 | 1478.2 | 1197.0 | 1086.3 |
| 1931.7 | 72.5° | 1590.7 | 1174.1 | 841.9 | 996.6 | 1151.3 | 1327.1 | 1543.3 | 1381.5 | 1107.3 | 1024.7 |
| 998.4 | 75° | 849.0 | 715.4 | 708.3 | 866.5 | 1001.9 | 1179.4 | 1404.4 | 1286.6 | 1040.6 | 1082.7 |
| 690.8 | 77.5° | 578.3 | 506.2 | 592.3 | 741.7 | 838.4 | 1015.9 | 1256.7 | 1142.5 | 901.7 | 898.2 |
| 478.1 | 80° | 400.8 | 358.6 | 481.6 | 597.6 | 648.6 | 854.2 | 1096.8 | 980.8 | 734.7 | 685.5 |
| 295.3 | 82.5° | 240.8 | 233.8 | 360.3 | 446.5 | 458.8 | 659.1 | 908.7 | 822.6 | 601.1 | 523.8 |
| 175.8 | 85° | 131.8 | 138.9 | 230.3 | 261.9 | 267.2 | 460.5 | 711.9 | 636.3 | 462.3 | 388.4 |
| 63.3 | 87.5° | 36.9 | 47.5 | 84.4 | 103.7 | 128.3 | 239.0 | 423.6 | 377.9 | 232.0 | 161.7 |
| 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> |
|-------------|
| 4332.7 |
| 4650.9 |
| 4853.0 |
| 4911.0 |
| 4879.4 |
| 4805.5 |
| 4703.6 |
| 4531.3 |
| 4343.3 |
| 4223.7 |
| 4125.3 |
| 4016.3 |
| 3895.0 |
| 3717.5 |
| 3487.3 |
| 3195.5 |
| 2863.3 |
| 2531.1 |
| 2272.7 |
| 2100.4 |
| 1937.0 |
| 1812.2 |
| 1647.0 |
| 1504.6 |
| 1371.0 |
| 1265.5 |
| 1182.9 |
| 1119.6 |
| 1072.2 |
| 1010.7 |
| 1117.9 |
| 827.9 |
| 655.6 |
| 527.3 |
| 392.0 |
| 161.7 |
| 0.0 |

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