

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: P953563

Luminaire Tested: **GALN-SB7A-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-827-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28478 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

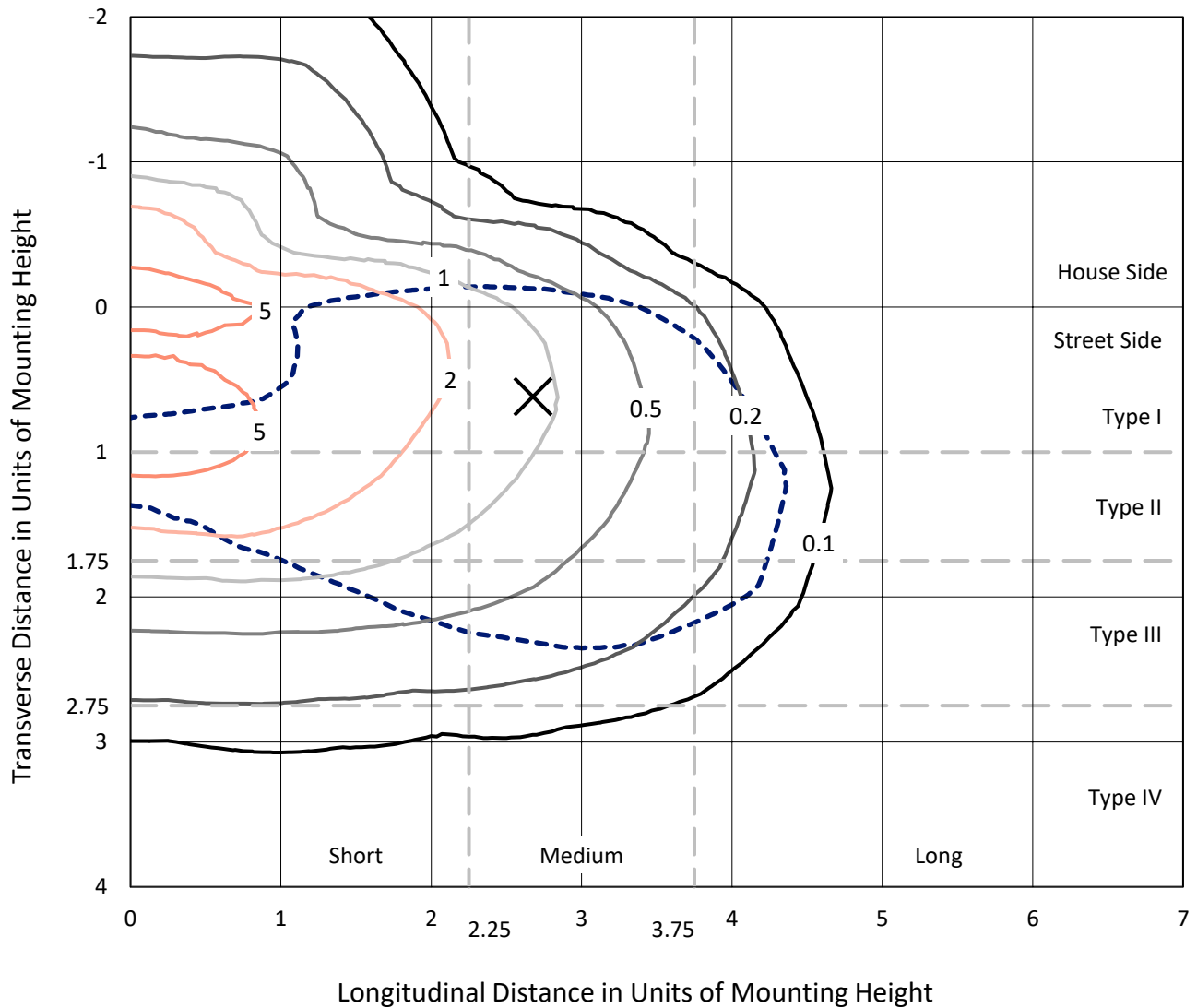
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

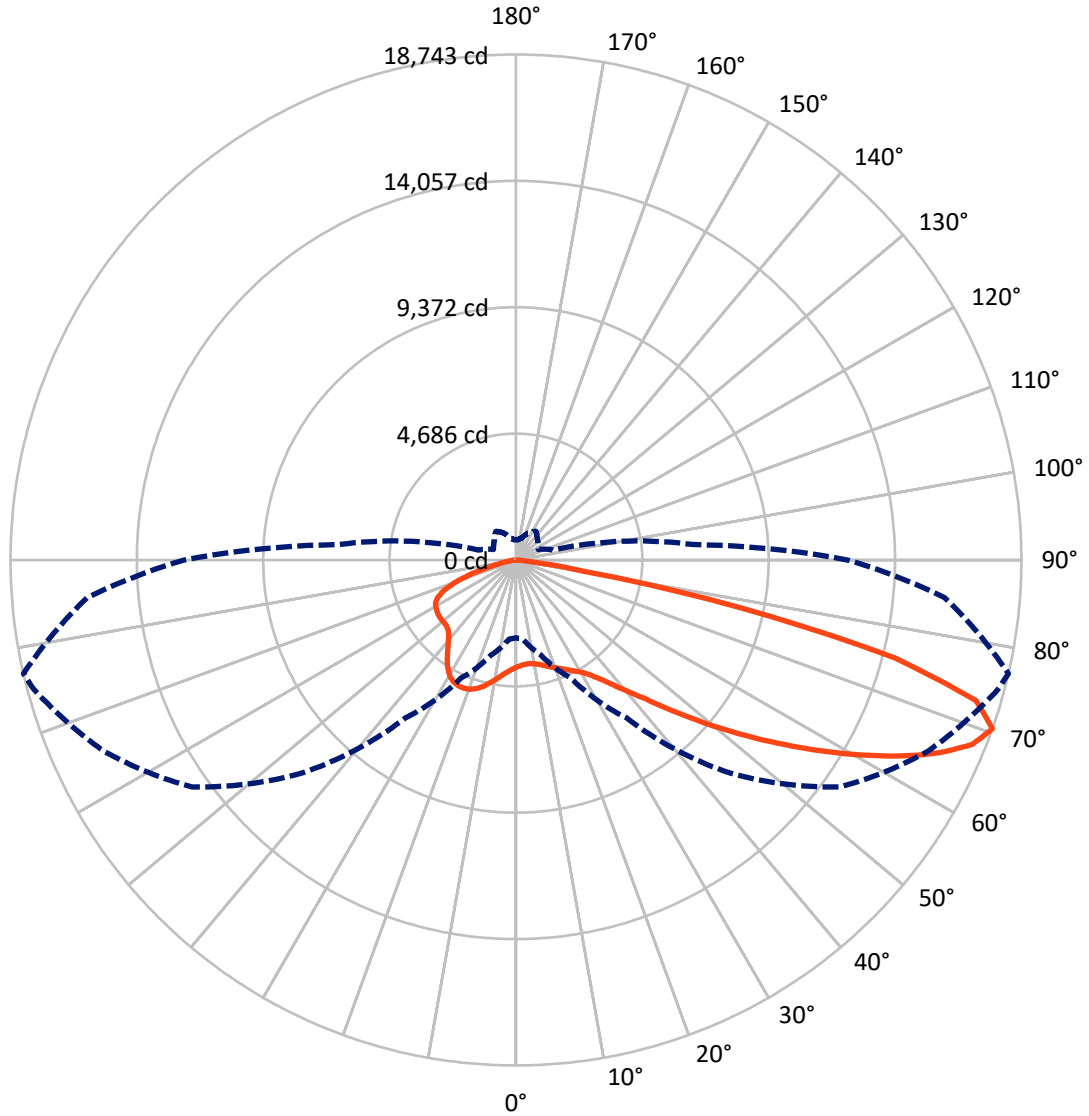
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6236.2 | 0.0 | 6236.2 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 22241.8 | 0.0 | 22241.8 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 28478.0 | 0.0 | 28478.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 378.9 | 1.3 |
| 10°-20° | 1093.6 | 3.8 |
| 20°-30° | 1870.2 | 6.6 |
| 30°-40° | 3007.4 | 10.6 |
| 40°-50° | 4695.4 | 16.5 |
| 50°-60° | 6271.9 | 22.0 |
| 60°-70° | 6684.9 | 23.5 |
| 70°-80° | 4115.2 | 14.5 |
| 80°-90° | 360.6 | 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° | 28478.0 | 100.0 |
| 0°-180° | 28478.0 | 100.0 |



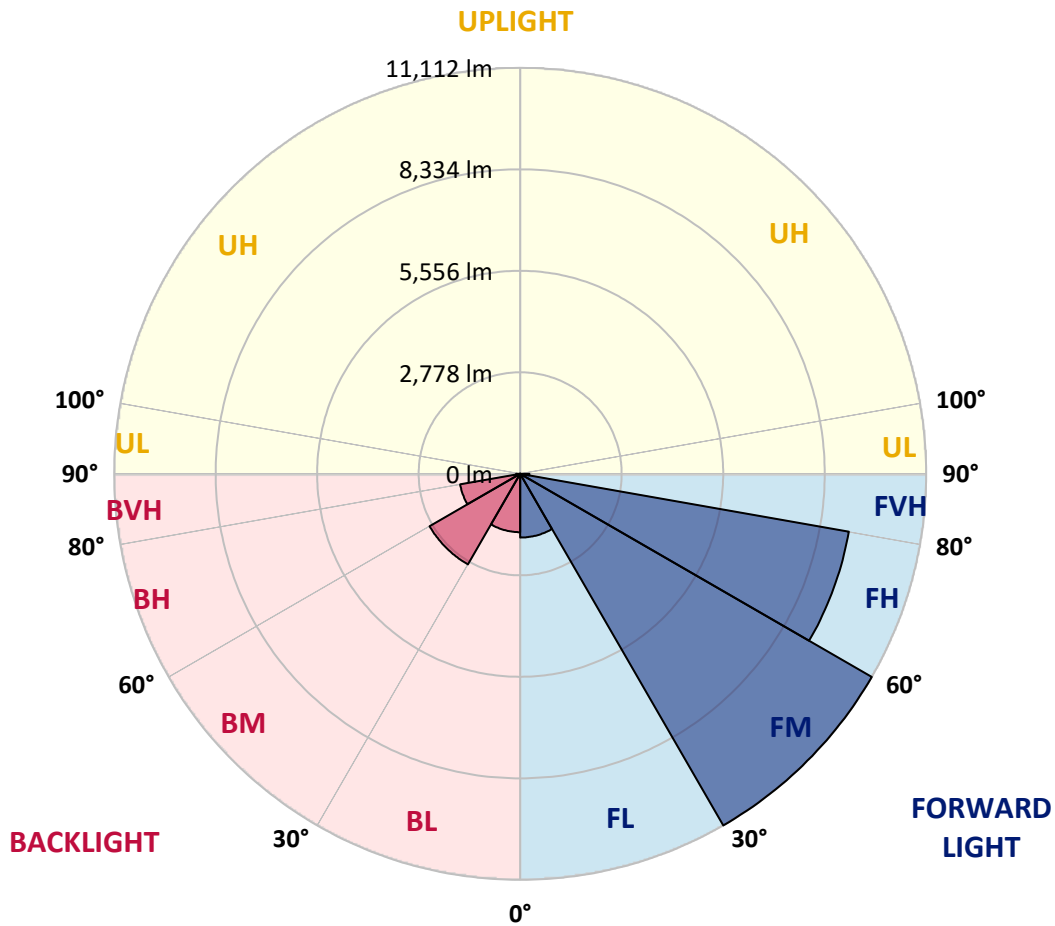
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1744.7 | 6.1 | | | |
| FM (30°-60°) | 11111.5 | 39.0 | | | |
| FH (60°-80°) | 9133.4 | 32.1 | | | G4/12000 |
| FVH (80°-90°) | 252.2 | 0.9 | | | G3/500 |
| BL (0°-30°) | 1597.9 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 2863.2 | 10.1 | B3/5000 | | |
| BH (60°-80°) | 1666.7 | 5.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 108.4 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3972.9 | 3972.9 | 3972.9 | 3972.9 | 3972.9 | 3972.9 | 3972.9 | 3972.9 | 3972.9 | 3972.9 |
| 2.5° | 3662.3 | 3660.8 | 3679.8 | 3685.6 | 3720.6 | 3745.4 | 3792.1 | 3841.7 | 3905.9 | 3913.1 |
| 5° | 3450.8 | 3450.8 | 3472.7 | 3496.0 | 3541.2 | 3590.8 | 3662.3 | 3748.3 | 3859.2 | 3876.7 |
| 7.5° | 3271.4 | 3283.1 | 3302.0 | 3347.2 | 3399.8 | 3471.2 | 3580.6 | 3703.1 | 3849.0 | 3876.7 |
| 10° | 3127.0 | 3140.1 | 3163.5 | 3199.9 | 3278.7 | 3377.9 | 3520.8 | 3678.3 | 3873.8 | 3917.5 |
| 12.5° | 3081.8 | 3094.9 | 3108.1 | 3135.8 | 3208.7 | 3325.4 | 3496.0 | 3690.0 | 3933.6 | 3977.3 |
| 15° | 3186.8 | 3202.9 | 3192.6 | 3185.4 | 3223.3 | 3329.7 | 3507.7 | 3732.3 | 4007.9 | 4070.7 |
| 17.5° | 3428.9 | 3434.8 | 3411.4 | 3342.9 | 3337.0 | 3393.9 | 3563.1 | 3790.6 | 4101.3 | 4169.8 |
| 20° | 3819.8 | 3809.6 | 3761.5 | 3625.8 | 3548.5 | 3536.9 | 3657.9 | 3878.1 | 4197.5 | 4270.5 |
| 22.5° | 4350.7 | 4339.0 | 4242.8 | 4028.4 | 3856.3 | 3742.5 | 3795.0 | 3991.9 | 4305.5 | 4387.2 |
| 25° | 5012.8 | 4996.8 | 4855.3 | 4563.6 | 4296.7 | 4015.2 | 3981.7 | 4142.1 | 4438.2 | 4514.0 |
| 27.5° | 5785.9 | 5772.7 | 5619.6 | 5234.5 | 4849.5 | 4388.6 | 4213.6 | 4318.6 | 4576.8 | 4662.8 |
| 30° | 6617.2 | 6655.1 | 6383.8 | 5969.6 | 5482.5 | 4875.7 | 4525.7 | 4535.9 | 4756.2 | 4833.5 |
| 32.5° | 7594.4 | 7660.0 | 7333.3 | 6808.3 | 6143.2 | 5405.2 | 4919.5 | 4839.3 | 5017.2 | 5081.4 |
| 35° | 8562.8 | 8637.2 | 8365.9 | 7785.4 | 7019.7 | 6029.4 | 5330.8 | 5187.9 | 5364.3 | 5434.4 |
| 37.5° | 9400.0 | 9499.2 | 9359.2 | 8854.5 | 7957.5 | 6782.0 | 5867.5 | 5597.7 | 5791.7 | 5879.2 |
| 40° | 10060.7 | 10212.4 | 10202.2 | 9887.1 | 9063.1 | 7695.0 | 6548.6 | 6103.8 | 6322.6 | 6417.4 |
| 42.5° | 10597.4 | 10728.7 | 10842.5 | 10826.4 | 10216.8 | 8732.0 | 7349.4 | 6761.6 | 6927.9 | 7037.2 |
| 45° | 10967.9 | 11107.9 | 11352.9 | 11616.9 | 11326.7 | 9841.9 | 8266.8 | 7541.9 | 7693.6 | 7858.4 |
| 47.5° | 11299.0 | 11457.9 | 11775.9 | 12194.5 | 12268.9 | 10956.2 | 9271.7 | 8450.5 | 8589.1 | 8759.7 |
| 50° | 11328.1 | 11465.2 | 11958.2 | 12551.8 | 12938.3 | 12026.8 | 10350.9 | 9470.0 | 9599.8 | 9782.1 |
| 52.5° | 10623.7 | 10839.5 | 11700.0 | 12541.6 | 13246.1 | 12922.3 | 11422.9 | 10530.3 | 10676.2 | 10895.0 |
| 55° | 8246.3 | 8562.8 | 10943.1 | 12150.7 | 13136.7 | 13501.3 | 12442.4 | 11657.8 | 11844.4 | 12073.4 |
| 57.5° | 7102.9 | 7241.4 | 8686.8 | 11439.0 | 12637.9 | 13651.5 | 13302.9 | 12796.8 | 13097.3 | 13348.1 |
| 60° | 6383.8 | 6499.1 | 7353.7 | 10332.0 | 11981.5 | 13413.8 | 13968.0 | 13858.6 | 14377.8 | 14676.8 |
| 62.5° | 5613.7 | 5723.1 | 6500.5 | 8627.0 | 11141.4 | 13018.5 | 14388.1 | 14838.7 | 15690.5 | 16017.2 |
| 65° | 4849.5 | 4942.8 | 5688.1 | 7248.7 | 10073.8 | 12623.3 | 14605.4 | 15686.1 | 16905.4 | 17243.8 |
| 67.5° | 3997.7 | 4075.0 | 4779.5 | 6115.5 | 8775.8 | 12082.2 | 14713.3 | 16352.6 | 17962.8 | 18253.1 |
| 70° | 2884.9 | 2944.7 | 3672.5 | 4836.4 | 7146.6 | 11151.7 | 14669.5 | 16825.2 | 18511.2 | 18743.1 |
| 72.5° | 1363.7 | 1417.7 | 2272.3 | 3140.1 | 5047.9 | 9340.2 | 13784.2 | 16450.4 | 17954.1 | 17838.9 |
| 75° | 727.8 | 774.5 | 1305.4 | 1722.5 | 2666.1 | 6402.8 | 11280.0 | 14170.7 | 15076.5 | 14516.4 |
| 77.5° | 493.0 | 529.4 | 808.0 | 1034.1 | 1217.8 | 3039.5 | 7250.2 | 9811.3 | 9439.4 | 8514.7 |
| 80° | 390.9 | 428.8 | 662.2 | 700.1 | 589.2 | 1098.2 | 2995.7 | 4541.8 | 3262.7 | 2609.2 |
| 82.5° | 300.5 | 342.7 | 557.1 | 507.6 | 320.9 | 450.7 | 872.2 | 1436.6 | 835.7 | 635.9 |
| 85° | 183.8 | 229.0 | 437.5 | 323.8 | 180.9 | 205.6 | 296.1 | 399.6 | 255.2 | 212.9 |
| 87.5° | 93.3 | 131.3 | 221.7 | 118.1 | 81.7 | 48.1 | 78.8 | 78.8 | 67.1 | 58.3 |
| 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: GALN-SB7A-827-U-T3R

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3972.9 | 0° | 3972.9 | 3972.9 | 3972.9 | 3972.9 | 3972.9 | 3972.9 | 3972.9 | 3972.9 | 3972.9 | 3972.9 |
| 3952.5 | 2.5° | 3987.5 | 4016.7 | 4066.3 | 4113.0 | 4149.4 | 4184.4 | 4219.4 | 4238.4 | 4244.2 | 4267.6 |
| 3974.4 | 5° | 4034.2 | 4088.2 | 4184.4 | 4274.8 | 4331.7 | 4366.7 | 4391.5 | 4406.1 | 4409.0 | 4416.3 |
| 4034.2 | 7.5° | 4120.2 | 4206.3 | 4340.5 | 4430.9 | 4473.2 | 4470.3 | 4460.1 | 4423.6 | 4409.0 | 4395.9 |
| 4121.7 | 10° | 4241.3 | 4355.1 | 4519.9 | 4582.6 | 4556.3 | 4486.3 | 4395.9 | 4289.4 | 4239.8 | 4191.7 |
| 4241.3 | 12.5° | 4391.5 | 4535.9 | 4697.8 | 4694.9 | 4565.1 | 4385.7 | 4175.7 | 4012.3 | 3908.8 | 3834.4 |
| 4388.6 | 15° | 4573.8 | 4740.1 | 4864.1 | 4764.9 | 4480.5 | 4158.2 | 3850.4 | 3637.5 | 3544.1 | 3462.5 |
| 4537.4 | 17.5° | 4762.0 | 4939.9 | 4996.8 | 4743.0 | 4267.6 | 3821.3 | 3472.7 | 3305.0 | 3213.1 | 3169.3 |
| 4697.8 | 20° | 4945.8 | 5122.2 | 5075.6 | 4617.6 | 3943.8 | 3439.1 | 3128.5 | 3036.6 | 3017.6 | 3027.8 |
| 4853.9 | 22.5° | 5139.7 | 5297.3 | 5091.6 | 4375.5 | 3531.0 | 3048.3 | 2877.6 | 2880.5 | 2922.8 | 2953.5 |
| 5017.2 | 25° | 5338.1 | 5444.6 | 5049.3 | 4025.4 | 3087.6 | 2760.9 | 2718.6 | 2765.3 | 2848.4 | 2908.2 |
| 5201.0 | 27.5° | 5529.2 | 5575.8 | 4957.4 | 3592.3 | 2707.0 | 2555.3 | 2562.6 | 2658.8 | 2784.3 | 2867.4 |
| 5424.1 | 30° | 5745.0 | 5692.5 | 4780.9 | 3105.1 | 2443.0 | 2378.8 | 2440.1 | 2552.4 | 2677.8 | 2752.2 |
| 5705.6 | 32.5° | 5988.6 | 5793.1 | 4500.9 | 2654.5 | 2256.3 | 2237.3 | 2338.0 | 2410.9 | 2466.3 | 2488.2 |
| 6079.0 | 35° | 6291.9 | 5934.6 | 4142.1 | 2338.0 | 2088.6 | 2133.8 | 2230.0 | 2193.6 | 2171.7 | 2160.0 |
| 6580.7 | 37.5° | 6685.7 | 6125.7 | 3722.1 | 2132.3 | 1952.9 | 2059.4 | 2098.8 | 1985.0 | 1899.0 | 1856.7 |
| 7188.9 | 40° | 7159.8 | 6405.7 | 3318.1 | 1973.3 | 1866.9 | 1995.2 | 1926.7 | 1789.6 | 1680.2 | 1620.4 |
| 7873.0 | 42.5° | 7686.3 | 6698.9 | 2978.2 | 1853.7 | 1818.7 | 1942.7 | 1799.8 | 1636.4 | 1460.0 | 1441.0 |
| 8688.3 | 45° | 8239.0 | 7000.8 | 2746.3 | 1761.9 | 1795.4 | 1897.5 | 1726.9 | 1462.9 | 1337.4 | 1414.7 |
| 9506.5 | 47.5° | 8791.8 | 7277.9 | 2606.3 | 1693.3 | 1783.7 | 1846.5 | 1662.7 | 1366.6 | 1277.6 | 1389.9 |
| 10383.0 | 50° | 9407.3 | 7525.8 | 2543.6 | 1643.7 | 1770.6 | 1826.0 | 1566.4 | 1341.8 | 1214.9 | 1289.3 |
| 11290.2 | 52.5° | 10018.4 | 7718.4 | 2496.9 | 1594.1 | 1751.7 | 1810.0 | 1519.8 | 1312.6 | 1139.1 | 1143.5 |
| 12203.2 | 55° | 10628.1 | 7843.8 | 2445.9 | 1528.5 | 1709.4 | 1775.0 | 1515.4 | 1280.6 | 1082.2 | 1061.8 |
| 13168.8 | 57.5° | 11278.5 | 7915.3 | 2383.2 | 1455.6 | 1636.4 | 1686.0 | 1511.0 | 1255.8 | 1064.7 | 1031.2 |
| 14156.2 | 60° | 11940.7 | 8020.3 | 2301.5 | 1366.6 | 1538.7 | 1579.6 | 1500.8 | 1247.0 | 1054.5 | 997.6 |
| 15086.7 | 62.5° | 12534.3 | 8056.7 | 2203.8 | 1282.0 | 1413.3 | 1474.5 | 1478.9 | 1239.7 | 1026.8 | 929.1 |
| 15859.7 | 65° | 12923.7 | 7899.2 | 2033.1 | 1185.8 | 1277.6 | 1366.6 | 1436.6 | 1214.9 | 977.2 | 879.5 |
| 16241.8 | 67.5° | 12907.7 | 7450.0 | 1766.2 | 1061.8 | 1146.4 | 1247.0 | 1375.4 | 1172.6 | 917.4 | 818.2 |
| 15953.0 | 70° | 12306.8 | 6563.2 | 1427.9 | 917.4 | 1002.0 | 1118.7 | 1296.6 | 1109.9 | 845.9 | 751.1 |
| 14185.3 | 72.5° | 10555.1 | 5136.8 | 1037.0 | 748.2 | 834.3 | 985.9 | 1194.5 | 1034.1 | 773.0 | 691.3 |
| 10483.7 | 75° | 7540.4 | 3251.0 | 703.0 | 574.6 | 649.0 | 835.7 | 1067.6 | 945.1 | 705.9 | 694.2 |
| 5250.6 | 77.5° | 3851.9 | 1553.3 | 465.3 | 420.0 | 452.1 | 659.2 | 897.0 | 844.5 | 716.1 | 573.2 |
| 1493.5 | 80° | 1252.8 | 573.2 | 293.2 | 285.9 | 300.5 | 439.0 | 694.2 | 692.8 | 542.6 | 389.4 |
| 361.7 | 82.5° | 399.6 | 246.5 | 191.1 | 183.8 | 176.5 | 275.7 | 484.2 | 548.4 | 366.1 | 246.5 |
| 129.8 | 85° | 159.0 | 147.3 | 112.3 | 103.6 | 74.4 | 129.8 | 253.8 | 364.6 | 272.7 | 177.9 |
| 33.5 | 87.5° | 58.3 | 58.3 | 30.6 | 21.9 | 16.0 | 43.8 | 68.5 | 109.4 | 156.1 | 91.9 |
| 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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| <u>180°</u> |
|-------------|
| 3972.9 |
| 4280.7 |
| 4428.0 |
| 4398.8 |
| 4177.1 |
| 3816.9 |
| 3453.7 |
| 3182.4 |
| 3023.5 |
| 2960.7 |
| 2924.3 |
| 2887.8 |
| 2769.7 |
| 2499.9 |
| 2171.7 |
| 1866.9 |
| 1624.8 |
| 1460.0 |
| 1455.6 |
| 1442.5 |
| 1344.7 |
| 1174.1 |
| 1076.4 |
| 1035.5 |
| 1002.0 |
| 929.1 |
| 879.5 |
| 822.6 |
| 759.9 |
| 687.0 |
| 654.9 |
| 510.5 |
| 344.2 |
| 245.0 |
| 182.3 |
| 90.4 |
| 0.0 |

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