

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: P943886

Luminaire Tested: **GALN-SB8C-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41299 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

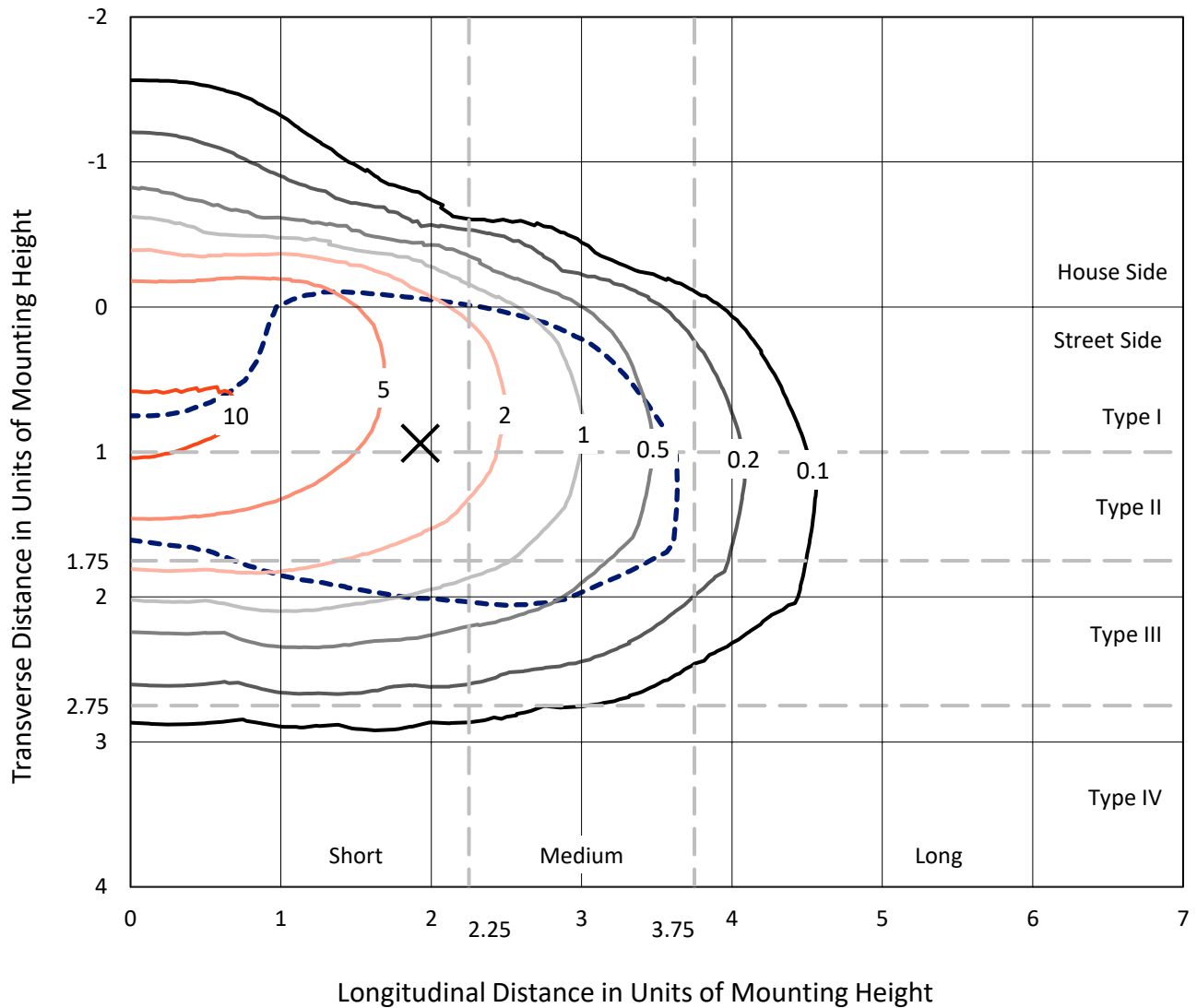
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

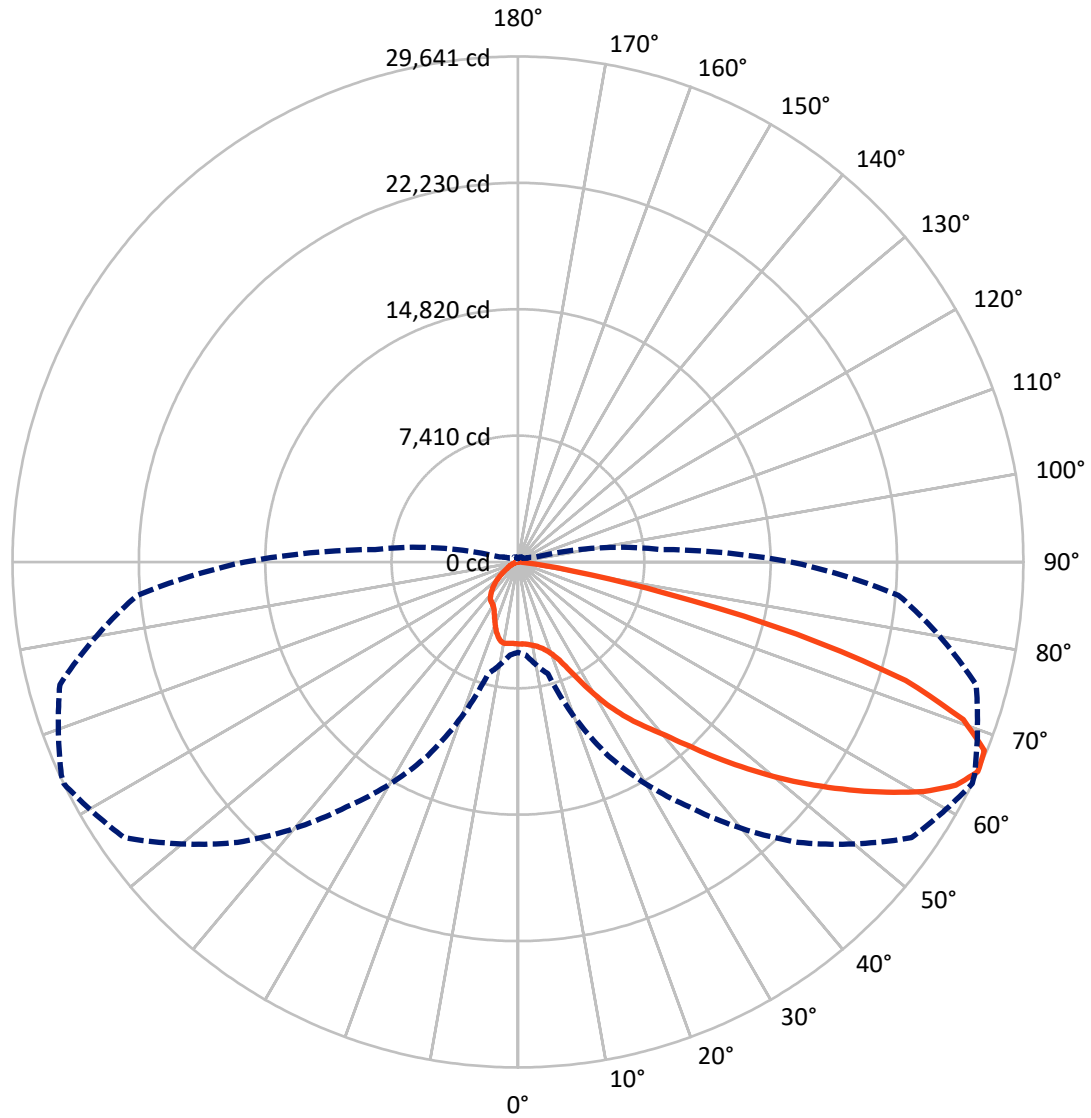
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5522.9 | 0.0 | 5522.9 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 35776.1 | 0.0 | 35776.1 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 41299.0 | 0.0 | 41299.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 443.2 | 1.1 |
| 10°-20° | 1202.0 | 2.9 |
| 20°-30° | 2277.7 | 5.5 |
| 30°-40° | 4609.0 | 11.2 |
| 40°-50° | 7851.5 | 19.0 |
| 50°-60° | 10677.4 | 25.9 |
| 60°-70° | 10026.6 | 24.3 |
| 70°-80° | 4017.1 | 9.7 |
| 80°-90° | 194.6 | 0.5 |
| 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° | 41299.0 | 100.0 |
| 0°-180° | 41299.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P943886

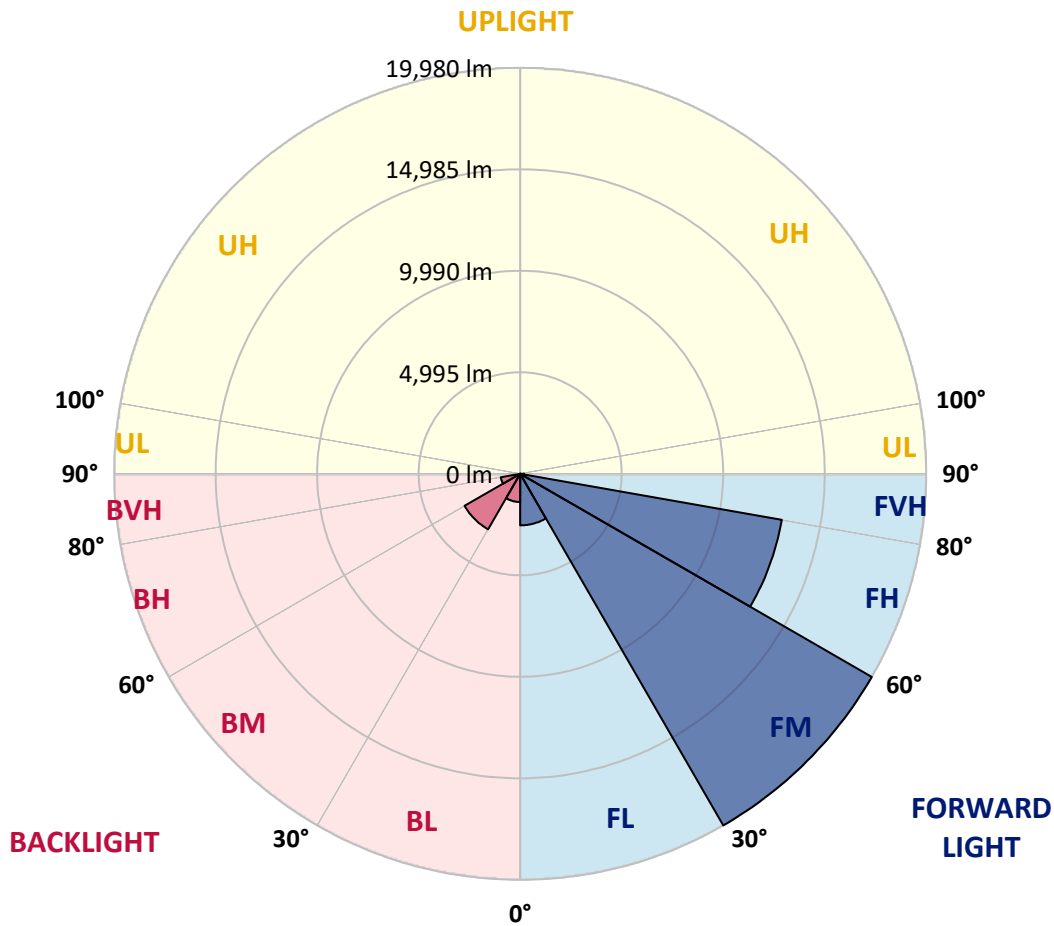
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2536.2 | 6.1 | | | |
| FM (30°-60°) | 19980.4 | 48.4 | | | |
| FH (60°-80°) | 13074.3 | 31.7 | | | G5 |
| FVH (80°-90°) | 185.1 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1386.6 | 3.4 | B3/2500 | | |
| BM (30°-60°) | 3157.4 | 7.6 | B3/5000 | | |
| BH (60°-80°) | 969.4 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 9.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Short



REPORT NUMBER: P943886

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4803.5 | 4803.5 | 4803.5 | 4803.5 | 4803.5 | 4803.5 | 4803.5 | 4803.5 | 4803.5 | 4803.5 |
| 2.5° | 4786.9 | 4820.1 | 4811.8 | 4803.5 | 4800.7 | 4806.3 | 4809.0 | 4806.3 | 4806.3 | 4806.3 |
| 5° | 4695.5 | 4723.2 | 4723.2 | 4742.6 | 4770.3 | 4803.5 | 4828.4 | 4834.0 | 4839.5 | 4847.8 |
| 7.5° | 4521.1 | 4543.3 | 4559.9 | 4623.5 | 4692.8 | 4781.4 | 4856.1 | 4894.9 | 4900.4 | 4930.9 |
| 10° | 4402.1 | 4429.7 | 4457.4 | 4523.9 | 4623.5 | 4756.4 | 4883.8 | 4977.9 | 4991.8 | 5063.7 |
| 12.5° | 4396.5 | 4424.2 | 4460.2 | 4532.2 | 4648.5 | 4789.7 | 4944.7 | 5080.4 | 5105.3 | 5210.5 |
| 15° | 4454.7 | 4487.9 | 4521.1 | 4609.7 | 4734.3 | 4905.9 | 5072.1 | 5240.9 | 5265.9 | 5415.4 |
| 17.5° | 4573.7 | 4618.0 | 4642.9 | 4731.5 | 4864.4 | 5055.4 | 5274.2 | 5468.0 | 5490.1 | 5664.5 |
| 20° | 4809.0 | 4861.6 | 4869.9 | 4941.9 | 5072.1 | 5276.9 | 5537.2 | 5778.0 | 5805.7 | 6005.1 |
| 22.5° | 5296.3 | 5371.1 | 5304.6 | 5340.6 | 5456.9 | 5661.8 | 5944.2 | 6248.7 | 6287.5 | 6514.5 |
| 25° | 6154.6 | 6259.8 | 6088.1 | 6027.2 | 6077.1 | 6290.2 | 6644.6 | 7029.4 | 7073.7 | 7256.5 |
| 27.5° | 7840.6 | 7705.0 | 7444.7 | 7190.0 | 7040.5 | 7162.3 | 7561.0 | 8037.2 | 8092.6 | 8269.8 |
| 30° | 9692.8 | 9573.8 | 9222.2 | 8657.4 | 8303.0 | 8283.6 | 8651.8 | 9183.4 | 9247.1 | 9416.0 |
| 32.5° | 11547.8 | 11434.3 | 11052.2 | 10357.3 | 9742.7 | 9438.1 | 9692.8 | 10282.5 | 10315.8 | 10423.7 |
| 35° | 13372.3 | 13256.0 | 12873.9 | 12162.4 | 11406.6 | 10714.4 | 10664.6 | 11329.1 | 11340.1 | 11453.7 |
| 37.5° | 15207.9 | 15111.0 | 14704.0 | 14006.3 | 13261.5 | 12306.4 | 11844.0 | 12320.2 | 12334.1 | 12444.8 |
| 40° | 16517.4 | 16558.9 | 16279.3 | 15739.4 | 15099.9 | 14056.1 | 13167.4 | 13375.1 | 13292.0 | 13477.5 |
| 42.5° | 17641.5 | 17724.5 | 17480.9 | 17209.6 | 16838.6 | 15919.4 | 14806.4 | 14770.4 | 14637.5 | 14737.2 |
| 45° | 18613.2 | 18682.4 | 18463.7 | 18400.0 | 18391.7 | 17746.7 | 16597.7 | 16381.7 | 16196.2 | 16176.9 |
| 47.5° | 18970.4 | 19103.3 | 19197.4 | 19410.6 | 19825.9 | 19554.5 | 18449.9 | 18114.9 | 17907.2 | 17755.0 |
| 50° | 19106.0 | 19247.2 | 19568.4 | 20188.6 | 21171.4 | 21287.7 | 20293.8 | 19917.2 | 19662.5 | 19385.7 |
| 52.5° | 18923.3 | 19175.2 | 19607.1 | 20650.9 | 22076.7 | 22677.5 | 22062.9 | 21733.4 | 21442.7 | 20991.4 |
| 55° | 17846.3 | 18098.3 | 18981.4 | 20645.4 | 22528.0 | 23652.1 | 23735.1 | 23588.4 | 23261.7 | 22550.2 |
| 57.5° | 15576.1 | 15949.8 | 17348.0 | 19942.1 | 22519.7 | 24490.9 | 25374.1 | 25479.3 | 25113.9 | 24095.0 |
| 60° | 12431.0 | 12937.6 | 14643.1 | 18383.4 | 21824.8 | 24945.0 | 26811.0 | 27337.1 | 26949.4 | 25617.8 |
| 62.5° | 8674.0 | 9260.9 | 10875.0 | 15941.5 | 20235.6 | 24618.3 | 27860.3 | 28832.1 | 28538.6 | 26979.9 |
| 65° | 5290.8 | 5479.0 | 6780.3 | 12544.5 | 17533.5 | 23250.6 | 28184.2 | 29640.5 | 29543.6 | 27813.2 |
| 67.5° | 3524.4 | 3682.2 | 4056.0 | 8602.0 | 13610.4 | 20518.0 | 27409.0 | 29499.3 | 29527.0 | 27677.6 |
| 70° | 2123.5 | 2259.2 | 2502.8 | 5002.8 | 8820.7 | 16240.5 | 25008.7 | 27699.7 | 27860.3 | 25864.2 |
| 72.5° | 874.9 | 966.2 | 1187.7 | 2267.5 | 4568.2 | 10307.5 | 19914.5 | 23782.2 | 24155.9 | 21747.3 |
| 75° | 495.6 | 542.6 | 697.7 | 1137.9 | 1982.3 | 4803.5 | 12062.7 | 16882.9 | 17433.8 | 14989.1 |
| 77.5° | 329.5 | 351.6 | 451.3 | 736.4 | 1115.7 | 1639.0 | 5155.1 | 8795.8 | 9847.9 | 8186.7 |
| 80° | 221.5 | 240.9 | 310.1 | 492.8 | 725.4 | 703.2 | 1641.8 | 3258.6 | 4008.9 | 2812.9 |
| 82.5° | 149.5 | 152.3 | 221.5 | 323.9 | 459.6 | 340.5 | 484.5 | 1013.3 | 1273.6 | 814.0 |
| 85° | 85.8 | 83.1 | 163.3 | 188.3 | 204.9 | 141.2 | 146.7 | 304.5 | 398.7 | 343.3 |
| 87.5° | 11.1 | 16.6 | 63.7 | 49.8 | 27.7 | 30.5 | 30.5 | 52.6 | 77.5 | 83.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P943886
 CATALOG NUMBER: GALN-SB8C-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4803.5 | 0° | 4803.5 | 4803.5 | 4803.5 | 4803.5 | 4803.5 | 4803.5 | 4803.5 | 4803.5 | 4803.5 | 4803.5 |
| 4809.0 | 2.5° | 4809.0 | 4806.3 | 4798.0 | 4789.7 | 4770.3 | 4759.2 | 4764.7 | 4759.2 | 4756.4 | 4759.2 |
| 4845.0 | 5° | 4845.0 | 4836.7 | 4814.6 | 4786.9 | 4748.1 | 4701.1 | 4670.6 | 4626.3 | 4584.8 | 4559.9 |
| 4941.9 | 7.5° | 4941.9 | 4933.6 | 4903.2 | 4825.7 | 4701.1 | 4504.5 | 4324.5 | 4166.7 | 4047.7 | 3978.5 |
| 5097.0 | 10° | 5097.0 | 5083.1 | 5036.1 | 4864.4 | 4537.7 | 4108.6 | 3751.4 | 3455.2 | 3261.4 | 3170.0 |
| 5279.7 | 12.5° | 5279.7 | 5263.1 | 5180.0 | 4828.4 | 4227.6 | 3557.6 | 3064.8 | 2735.4 | 2555.4 | 2475.1 |
| 5490.1 | 15° | 5495.6 | 5473.5 | 5310.2 | 4656.8 | 3776.4 | 2948.5 | 2497.3 | 2250.9 | 2134.6 | 2062.6 |
| 5758.7 | 17.5° | 5764.2 | 5725.4 | 5407.1 | 4399.3 | 3286.3 | 2483.4 | 2148.4 | 1962.9 | 1860.5 | 1791.3 |
| 6110.3 | 20° | 6113.0 | 6049.4 | 5484.6 | 4092.0 | 2835.0 | 2190.0 | 1913.1 | 1758.1 | 1680.5 | 1619.6 |
| 6608.6 | 22.5° | 6600.3 | 6509.0 | 5578.7 | 3759.7 | 2516.6 | 1987.8 | 1738.7 | 1625.2 | 1561.5 | 1492.3 |
| 7303.5 | 25° | 7203.9 | 7095.9 | 5695.0 | 3452.4 | 2297.9 | 1813.4 | 1611.3 | 1517.2 | 1442.4 | 1362.1 |
| 8214.4 | 27.5° | 8048.3 | 7854.5 | 5833.4 | 3200.5 | 2109.7 | 1663.9 | 1495.0 | 1389.8 | 1304.0 | 1237.6 |
| 9247.1 | 30° | 8989.6 | 8671.2 | 5955.2 | 3048.2 | 1938.0 | 1525.5 | 1342.8 | 1237.6 | 1157.3 | 1110.2 |
| 10174.6 | 32.5° | 9881.1 | 9449.2 | 6035.5 | 2981.8 | 1783.0 | 1367.7 | 1176.7 | 1063.1 | 1002.2 | 988.4 |
| 11082.7 | 35° | 10722.7 | 10152.4 | 6027.2 | 2918.1 | 1644.5 | 1209.9 | 1013.3 | 897.0 | 850.0 | 858.3 |
| 12060.0 | 37.5° | 11691.8 | 10902.7 | 5969.1 | 2818.4 | 1531.0 | 1065.9 | 872.1 | 769.7 | 728.1 | 730.9 |
| 13247.7 | 40° | 12818.6 | 11769.3 | 5933.1 | 2630.2 | 1406.4 | 933.0 | 755.8 | 672.8 | 642.3 | 631.2 |
| 14499.1 | 42.5° | 14020.1 | 12608.2 | 5938.6 | 2417.0 | 1251.4 | 814.0 | 675.5 | 606.3 | 578.6 | 570.3 |
| 15891.7 | 45° | 15227.2 | 13408.3 | 5946.9 | 2195.5 | 1088.1 | 722.6 | 617.4 | 559.3 | 542.6 | 531.6 |
| 17303.7 | 47.5° | 16362.4 | 14089.4 | 5791.9 | 1957.4 | 927.5 | 653.4 | 570.3 | 531.6 | 517.7 | 503.9 |
| 18721.2 | 50° | 17420.0 | 14543.4 | 5418.1 | 1680.5 | 800.1 | 598.0 | 534.3 | 506.7 | 492.8 | 479.0 |
| 20005.8 | 52.5° | 18242.2 | 14615.4 | 4800.7 | 1395.4 | 711.5 | 556.5 | 512.2 | 487.3 | 470.7 | 456.8 |
| 21044.0 | 55° | 18607.7 | 14164.1 | 3923.1 | 1129.6 | 642.3 | 520.5 | 490.0 | 465.1 | 445.7 | 431.9 |
| 21860.8 | 57.5° | 18513.6 | 13214.5 | 3059.3 | 908.1 | 575.9 | 484.5 | 462.4 | 445.7 | 423.6 | 401.4 |
| 22522.5 | 60° | 18051.2 | 11943.7 | 2306.2 | 755.8 | 515.0 | 445.7 | 431.9 | 418.1 | 387.6 | 354.4 |
| 22777.2 | 62.5° | 17251.1 | 10346.2 | 1644.5 | 625.7 | 448.5 | 401.4 | 395.9 | 384.8 | 340.5 | 279.6 |
| 22400.7 | 65° | 16027.4 | 8405.4 | 1107.4 | 520.5 | 384.8 | 351.6 | 354.4 | 335.0 | 276.9 | 207.6 |
| 21021.9 | 67.5° | 14238.9 | 6146.3 | 708.8 | 426.4 | 321.2 | 293.5 | 296.2 | 285.2 | 235.3 | 177.2 |
| 18408.4 | 70° | 11960.3 | 4069.8 | 462.4 | 323.9 | 257.5 | 227.0 | 243.6 | 246.4 | 199.3 | 144.0 |
| 14128.1 | 72.5° | 8768.1 | 2403.1 | 323.9 | 240.9 | 188.3 | 157.8 | 199.3 | 204.9 | 160.6 | 108.0 |
| 8499.6 | 75° | 4997.3 | 1140.7 | 243.6 | 174.4 | 116.3 | 110.7 | 155.0 | 155.0 | 110.7 | 72.0 |
| 3679.5 | 77.5° | 2098.6 | 476.2 | 171.7 | 113.5 | 66.4 | 63.7 | 105.2 | 96.9 | 55.4 | 33.2 |
| 897.0 | 80° | 606.3 | 213.2 | 91.4 | 55.4 | 27.7 | 24.9 | 41.5 | 30.5 | 13.8 | 5.5 |
| 340.5 | 82.5° | 238.1 | 94.1 | 36.0 | 22.1 | 11.1 | 11.1 | 5.5 | 0.0 | 0.0 | 0.0 |
| 193.8 | 85° | 141.2 | 38.8 | 16.6 | 8.3 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 41.5 | 87.5° | 36.0 | 8.3 | 5.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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> |
|-------------|
| 4803.5 |
| 4770.3 |
| 4565.4 |
| 3981.2 |
| 3161.7 |
| 2466.8 |
| 2065.4 |
| 1785.7 |
| 1608.6 |
| 1481.2 |
| 1353.8 |
| 1223.7 |
| 1101.9 |
| 996.7 |
| 858.3 |
| 742.0 |
| 628.5 |
| 567.6 |
| 531.6 |
| 503.9 |
| 479.0 |
| 454.0 |
| 429.1 |
| 398.7 |
| 348.8 |
| 274.1 |
| 202.1 |
| 168.9 |
| 138.4 |
| 102.4 |
| 66.4 |
| 33.2 |
| 5.5 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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