

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: P951535

Luminaire Tested: **GALN-SB5C-930-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5C-930-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26158 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

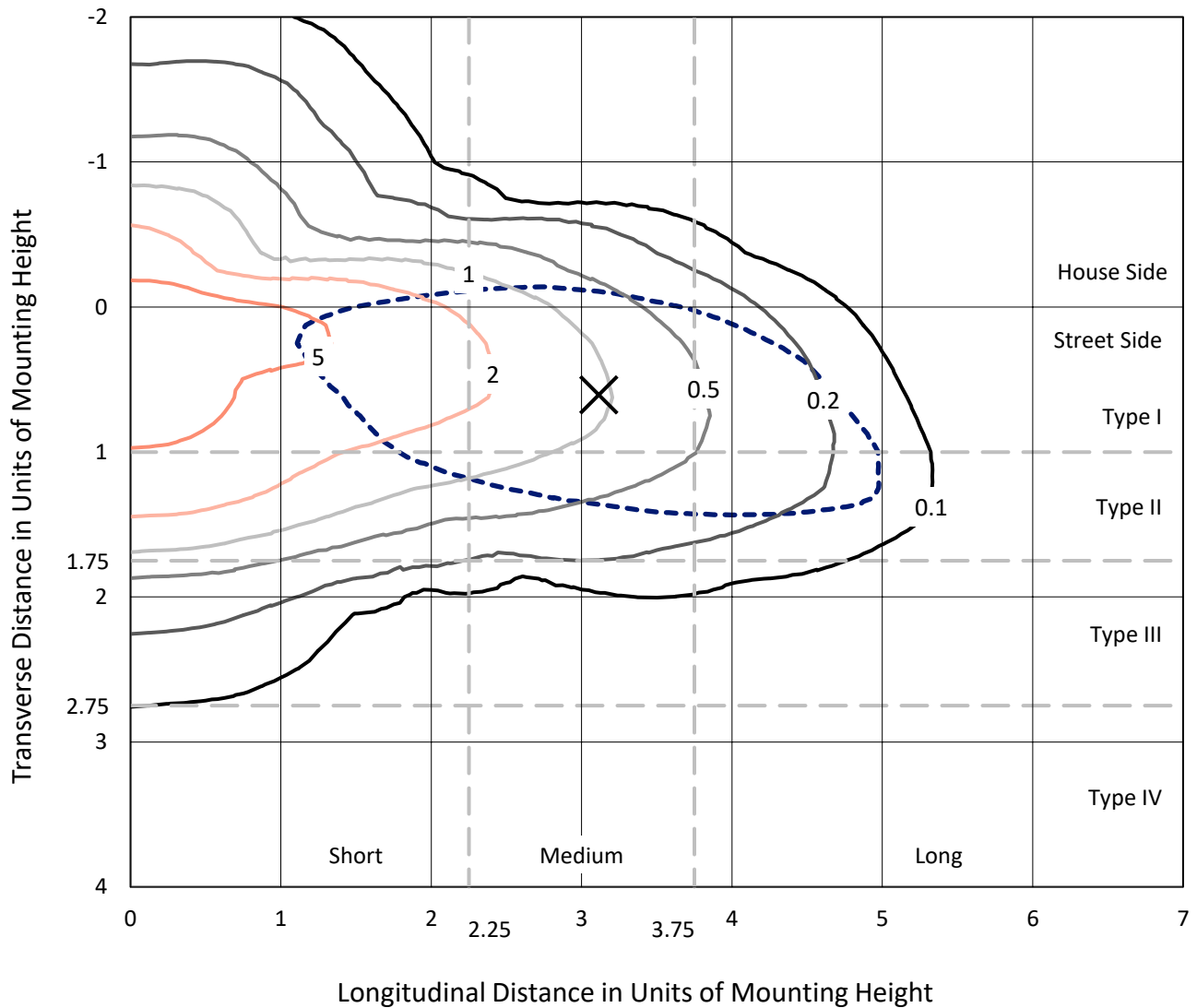
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

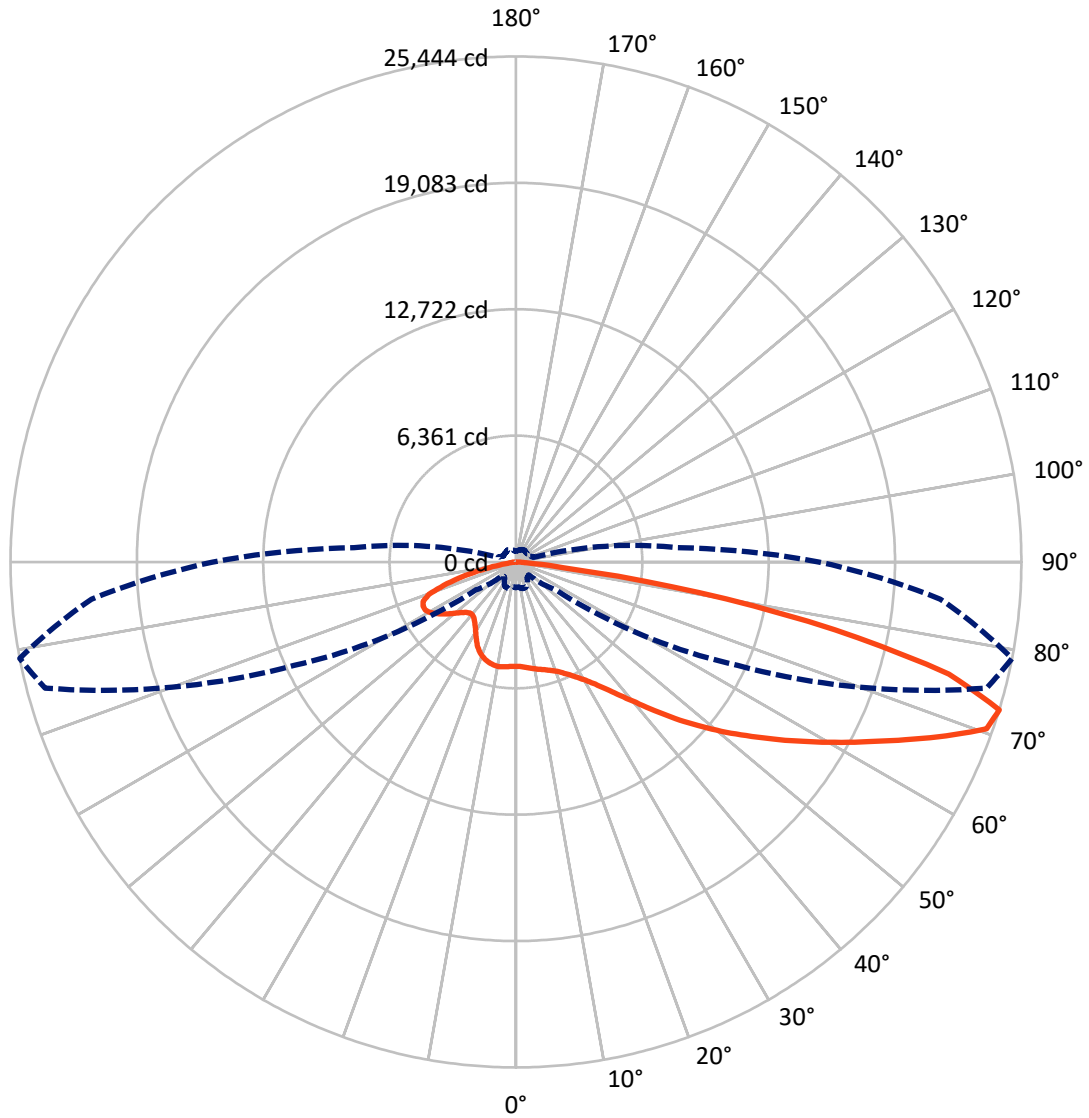
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5756.2 | 0.0 | 5756.2 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 20401.8 | 0.0 | 20401.8 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 26158.0 | 0.0 | 26158.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 476.6 | 1.8 |
| 10°-20° | 1246.2 | 4.8 |
| 20°-30° | 2010.8 | 7.7 |
| 30°-40° | 3017.9 | 11.5 |
| 40°-50° | 4281.1 | 16.4 |
| 50°-60° | 5406.5 | 20.7 |
| 60°-70° | 5491.0 | 21.0 |
| 70°-80° | 3742.4 | 14.3 |
| 80°-90° | 485.5 | 1.9 |
| 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° | 26158.0 | 100.0 |
| 0°-180° | 26158.0 | 100.0 |



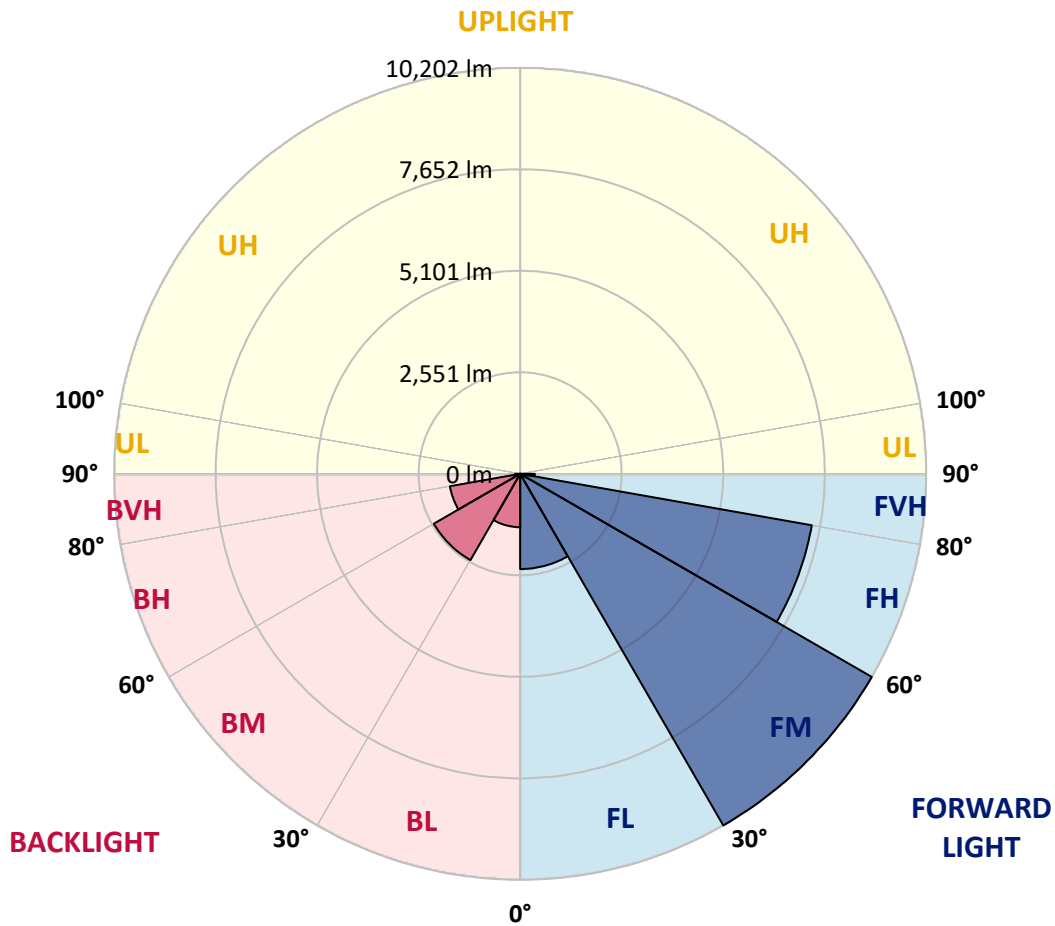
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2392.8 | 9.1 | | | |
| FM (30°-60°) | 10202.2 | 39.0 | | | |
| FH (60°-80°) | 7441.1 | 28.4 | | | G3/7500 |
| FVH (80°-90°) | 365.8 | 1.4 | | | G3/500 |
| BL (0°-30°) | 1340.8 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2503.3 | 9.6 | B3/5000 | | |
| BH (60°-80°) | 1792.3 | 6.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 119.8 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 5251.0 | 5251.0 | 5251.0 | 5251.0 | 5251.0 | 5251.0 | 5251.0 | 5251.0 | 5251.0 | 5251.0 |
| 2.5° | 5253.7 | 5228.8 | 5244.1 | 5238.5 | 5245.4 | 5253.7 | 5256.5 | 5260.7 | 5274.5 | 5273.1 |
| 5° | 5242.7 | 5217.8 | 5238.5 | 5231.6 | 5249.6 | 5269.0 | 5285.6 | 5300.8 | 5322.9 | 5332.6 |
| 7.5° | 5219.1 | 5202.5 | 5223.3 | 5244.1 | 5277.3 | 5306.3 | 5329.8 | 5364.4 | 5396.3 | 5401.8 |
| 10° | 5082.2 | 5069.7 | 5118.1 | 5172.1 | 5263.4 | 5342.3 | 5393.5 | 5433.6 | 5468.2 | 5473.7 |
| 12.5° | 4939.6 | 4924.4 | 4978.4 | 5051.7 | 5199.8 | 5342.3 | 5450.2 | 5502.8 | 5533.2 | 5551.2 |
| 15° | 4916.1 | 4903.7 | 4934.1 | 4997.8 | 5120.9 | 5304.9 | 5489.0 | 5585.8 | 5612.1 | 5632.9 |
| 17.5° | 5029.6 | 5006.1 | 5018.5 | 5040.7 | 5112.6 | 5270.3 | 5519.4 | 5679.9 | 5720.0 | 5742.2 |
| 20° | 5292.5 | 5259.3 | 5239.9 | 5195.6 | 5183.2 | 5275.9 | 5516.6 | 5793.4 | 5845.9 | 5873.6 |
| 22.5° | 5642.5 | 5620.4 | 5578.9 | 5466.8 | 5345.1 | 5343.7 | 5569.2 | 5938.6 | 6036.9 | 6063.2 |
| 25° | 6065.9 | 6032.7 | 5980.2 | 5828.0 | 5594.1 | 5477.9 | 5657.8 | 6124.1 | 6288.7 | 6295.6 |
| 27.5° | 6553.0 | 6503.2 | 6431.2 | 6230.6 | 5915.1 | 5688.2 | 5793.4 | 6337.1 | 6577.9 | 6575.1 |
| 30° | 7066.3 | 7016.5 | 6940.4 | 6696.9 | 6299.8 | 5971.9 | 5981.5 | 6566.8 | 6921.0 | 6905.8 |
| 32.5° | 7441.3 | 7403.9 | 7388.7 | 7200.5 | 6742.5 | 6306.7 | 6197.4 | 6821.4 | 7344.4 | 7330.6 |
| 35° | 7729.1 | 7680.7 | 7698.7 | 7603.2 | 7225.4 | 6681.7 | 6461.7 | 7124.4 | 7859.2 | 7857.8 |
| 37.5° | 8014.1 | 7971.2 | 7986.5 | 7922.8 | 7672.4 | 7157.6 | 6784.1 | 7495.3 | 8497.0 | 8527.5 |
| 40° | 8274.3 | 8228.6 | 8289.5 | 8230.0 | 8019.7 | 7664.1 | 7150.7 | 7914.5 | 9235.9 | 9294.0 |
| 42.5° | 8430.6 | 8394.6 | 8495.6 | 8497.0 | 8321.3 | 8091.6 | 7553.4 | 8376.6 | 10091.0 | 10221.1 |
| 45° | 8484.6 | 8472.1 | 8624.3 | 8656.1 | 8588.3 | 8339.3 | 7915.9 | 8880.3 | 11012.5 | 11245.0 |
| 47.5° | 8426.5 | 8402.9 | 8613.3 | 8730.9 | 8784.8 | 8455.5 | 8216.1 | 9425.5 | 11953.4 | 12293.8 |
| 50° | 8133.1 | 8087.5 | 8400.2 | 8647.8 | 8840.2 | 8531.6 | 8519.2 | 10055.0 | 13023.0 | 13395.2 |
| 52.5° | 7606.0 | 7571.4 | 7927.0 | 8357.3 | 8718.4 | 8569.0 | 8859.5 | 10742.7 | 14038.6 | 14520.1 |
| 55° | 6932.1 | 6886.4 | 7278.0 | 7839.8 | 8415.4 | 8556.5 | 9199.9 | 11512.0 | 15236.8 | 15725.2 |
| 57.5° | 5863.9 | 5772.6 | 6268.0 | 6932.1 | 7921.4 | 8541.3 | 9554.1 | 12277.2 | 16454.4 | 17039.7 |
| 60° | 4305.9 | 4170.3 | 4777.8 | 5565.1 | 6955.6 | 8393.2 | 9992.8 | 13135.0 | 17915.6 | 18442.7 |
| 62.5° | 2507.2 | 2428.3 | 2825.4 | 3560.1 | 5242.7 | 7521.5 | 10239.0 | 14132.6 | 19351.8 | 19905.3 |
| 65° | 1946.8 | 1924.7 | 1959.3 | 2016.0 | 2918.1 | 5631.5 | 9479.4 | 15105.4 | 21178.2 | 21565.6 |
| 67.5° | 1780.8 | 1764.2 | 1779.4 | 1672.8 | 1480.5 | 3136.7 | 7499.4 | 15351.6 | 23134.7 | 23369.9 |
| 70° | 1582.9 | 1563.5 | 1613.3 | 1522.0 | 1165.0 | 1426.5 | 4845.6 | 14457.8 | 24691.3 | 25132.7 |
| 72.5° | 1289.6 | 1267.4 | 1383.7 | 1342.1 | 981.0 | 916.0 | 2433.8 | 12333.9 | 24528.0 | 25444.0 |
| 75° | 990.7 | 978.2 | 1116.6 | 1151.2 | 799.8 | 720.9 | 1167.8 | 9168.1 | 21585.0 | 22507.9 |
| 77.5° | 769.3 | 759.6 | 830.2 | 956.1 | 644.8 | 559.0 | 718.1 | 5815.5 | 16266.2 | 16428.1 |
| 80° | 577.0 | 549.3 | 614.3 | 740.3 | 502.3 | 408.2 | 487.0 | 3391.3 | 10281.9 | 9320.3 |
| 82.5° | 361.1 | 347.3 | 401.3 | 494.0 | 354.2 | 280.9 | 316.9 | 1873.5 | 4120.5 | 2426.9 |
| 85° | 206.2 | 200.6 | 218.6 | 282.3 | 192.3 | 161.9 | 181.3 | 827.4 | 752.7 | 517.5 |
| 87.5° | 83.0 | 80.3 | 99.6 | 125.9 | 70.6 | 59.5 | 63.6 | 199.2 | 166.0 | 153.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P951535
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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5251.0 | 0° | 5251.0 | 5251.0 | 5251.0 | 5251.0 | 5251.0 | 5251.0 | 5251.0 | 5251.0 | 5251.0 | 5251.0 |
| 5271.7 | 2.5° | 5266.2 | 5266.2 | 5246.8 | 5216.4 | 5181.8 | 5159.6 | 5123.7 | 5114.0 | 5076.6 | 5065.6 |
| 5318.8 | 5° | 5329.8 | 5318.8 | 5259.3 | 5173.5 | 5055.9 | 4947.9 | 4829.0 | 4754.2 | 4649.1 | 4611.7 |
| 5411.5 | 7.5° | 5410.1 | 5379.6 | 5277.3 | 5089.1 | 4842.8 | 4600.7 | 4348.8 | 4157.9 | 3975.2 | 3910.2 |
| 5487.6 | 10° | 5483.4 | 5440.5 | 5266.2 | 4936.9 | 4510.7 | 4091.5 | 3690.2 | 3409.3 | 3196.2 | 3109.1 |
| 5572.0 | 12.5° | 5556.8 | 5477.9 | 5192.9 | 4683.7 | 4038.9 | 3470.2 | 3042.7 | 2824.0 | 2692.6 | 2587.4 |
| 5641.2 | 15° | 5625.9 | 5515.2 | 5079.4 | 4344.7 | 3521.4 | 2944.4 | 2628.9 | 2454.6 | 2349.4 | 2280.3 |
| 5742.2 | 17.5° | 5706.2 | 5547.1 | 4909.2 | 3914.4 | 3028.8 | 2580.5 | 2323.2 | 2218.0 | 2197.2 | 2188.9 |
| 5880.5 | 20° | 5818.3 | 5576.1 | 4685.1 | 3432.8 | 2666.3 | 2289.9 | 2157.1 | 2147.4 | 2146.0 | 2141.9 |
| 6046.6 | 22.5° | 5938.6 | 5610.7 | 4389.0 | 2995.6 | 2357.7 | 2108.7 | 2085.2 | 2065.8 | 2053.3 | 2052.0 |
| 6247.2 | 25° | 6081.2 | 5621.8 | 4018.1 | 2637.2 | 2094.9 | 2022.9 | 1995.2 | 1966.2 | 1957.9 | 1957.9 |
| 6475.5 | 27.5° | 6219.5 | 5584.4 | 3586.4 | 2325.9 | 1946.8 | 1944.0 | 1908.1 | 1898.4 | 1897.0 | 1901.1 |
| 6735.6 | 30° | 6357.9 | 5513.9 | 3157.5 | 2038.1 | 1861.0 | 1861.0 | 1848.6 | 1855.5 | 1861.0 | 1874.9 |
| 7092.6 | 32.5° | 6544.7 | 5439.1 | 2799.1 | 1825.0 | 1786.3 | 1772.5 | 1784.9 | 1798.8 | 1804.3 | 1822.3 |
| 7561.7 | 35° | 6818.7 | 5386.6 | 2514.1 | 1708.8 | 1708.8 | 1690.8 | 1697.7 | 1695.0 | 1682.5 | 1674.2 |
| 8129.0 | 37.5° | 7181.2 | 5383.8 | 2278.9 | 1654.9 | 1643.8 | 1641.0 | 1642.4 | 1624.4 | 1576.0 | 1517.9 |
| 8815.3 | 40° | 7617.0 | 5458.5 | 2097.6 | 1617.5 | 1609.2 | 1625.8 | 1617.5 | 1569.1 | 1436.2 | 1335.2 |
| 9659.3 | 42.5° | 8202.3 | 5671.6 | 1981.4 | 1571.8 | 1596.7 | 1617.5 | 1584.3 | 1416.9 | 1326.9 | 1259.1 |
| 10620.9 | 45° | 8891.4 | 6017.5 | 1921.9 | 1523.4 | 1573.2 | 1598.1 | 1437.6 | 1364.3 | 1292.3 | 1210.7 |
| 11669.7 | 47.5° | 9671.7 | 6453.4 | 1908.1 | 1477.7 | 1520.6 | 1535.9 | 1375.4 | 1342.1 | 1260.5 | 1172.0 |
| 12724.1 | 50° | 10521.3 | 6969.5 | 1945.4 | 1423.8 | 1444.5 | 1392.0 | 1354.6 | 1324.2 | 1239.8 | 1152.6 |
| 13804.7 | 52.5° | 11399.9 | 7538.2 | 2020.1 | 1350.4 | 1368.4 | 1310.3 | 1346.3 | 1320.0 | 1227.3 | 1109.7 |
| 14921.3 | 55° | 12263.3 | 8111.0 | 2092.1 | 1264.7 | 1290.9 | 1237.0 | 1322.8 | 1303.4 | 1170.6 | 1037.7 |
| 16112.7 | 57.5° | 13140.6 | 8681.0 | 2162.7 | 1188.6 | 1216.2 | 1166.4 | 1285.4 | 1259.1 | 1106.9 | 971.3 |
| 17413.3 | 60° | 14052.4 | 9234.5 | 2195.9 | 1115.2 | 1134.6 | 1101.4 | 1228.7 | 1183.0 | 1035.0 | 903.5 |
| 18691.8 | 62.5° | 14906.1 | 9695.3 | 2141.9 | 1041.9 | 1054.3 | 1040.5 | 1154.0 | 1093.1 | 963.0 | 827.4 |
| 20024.3 | 65° | 15762.6 | 9969.2 | 1975.9 | 969.9 | 972.7 | 965.8 | 1048.8 | 996.2 | 878.6 | 761.0 |
| 21190.7 | 67.5° | 16538.8 | 10122.8 | 1711.6 | 892.5 | 885.5 | 882.8 | 950.6 | 891.1 | 797.0 | 694.6 |
| 22077.6 | 70° | 16703.5 | 9732.6 | 1307.6 | 801.1 | 801.1 | 794.2 | 842.6 | 781.8 | 707.0 | 624.0 |
| 21442.5 | 72.5° | 15256.2 | 8187.1 | 928.4 | 697.4 | 708.4 | 694.6 | 734.7 | 683.5 | 615.7 | 560.4 |
| 18480.1 | 75° | 12302.1 | 6003.7 | 675.2 | 590.8 | 610.2 | 586.7 | 624.0 | 588.1 | 529.9 | 528.6 |
| 12735.2 | 77.5° | 8452.7 | 3712.3 | 489.8 | 487.0 | 500.9 | 470.4 | 513.3 | 494.0 | 441.4 | 417.9 |
| 5542.9 | 80° | 3607.2 | 1480.5 | 357.0 | 376.4 | 376.4 | 348.7 | 398.5 | 404.0 | 358.4 | 347.3 |
| 1069.6 | 82.5° | 718.1 | 420.6 | 250.4 | 258.7 | 243.5 | 235.2 | 282.3 | 312.7 | 431.7 | 480.1 |
| 322.4 | 85° | 215.9 | 155.0 | 150.8 | 141.1 | 124.5 | 125.9 | 166.0 | 314.1 | 387.4 | 221.4 |
| 106.5 | 87.5° | 59.5 | 38.7 | 40.1 | 31.8 | 26.3 | 34.6 | 56.7 | 238.0 | 130.1 | 55.3 |
| 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> |
|-------------|
| 5251.0 |
| 5083.5 |
| 4639.4 |
| 3918.5 |
| 3128.4 |
| 2622.0 |
| 2292.7 |
| 2194.5 |
| 2155.7 |
| 2067.2 |
| 1966.2 |
| 1912.2 |
| 1884.5 |
| 1837.5 |
| 1693.6 |
| 1519.3 |
| 1332.5 |
| 1256.4 |
| 1205.2 |
| 1165.0 |
| 1142.9 |
| 1101.4 |
| 1030.8 |
| 968.6 |
| 899.4 |
| 826.0 |
| 752.7 |
| 686.3 |
| 621.3 |
| 543.8 |
| 476.0 |
| 391.6 |
| 347.3 |
| 481.5 |
| 190.9 |
| 47.0 |
| 0.0 |

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