

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: P951577

Luminaire Tested: **GALN-SB5C-940-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951577
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-940-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 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: 27248 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

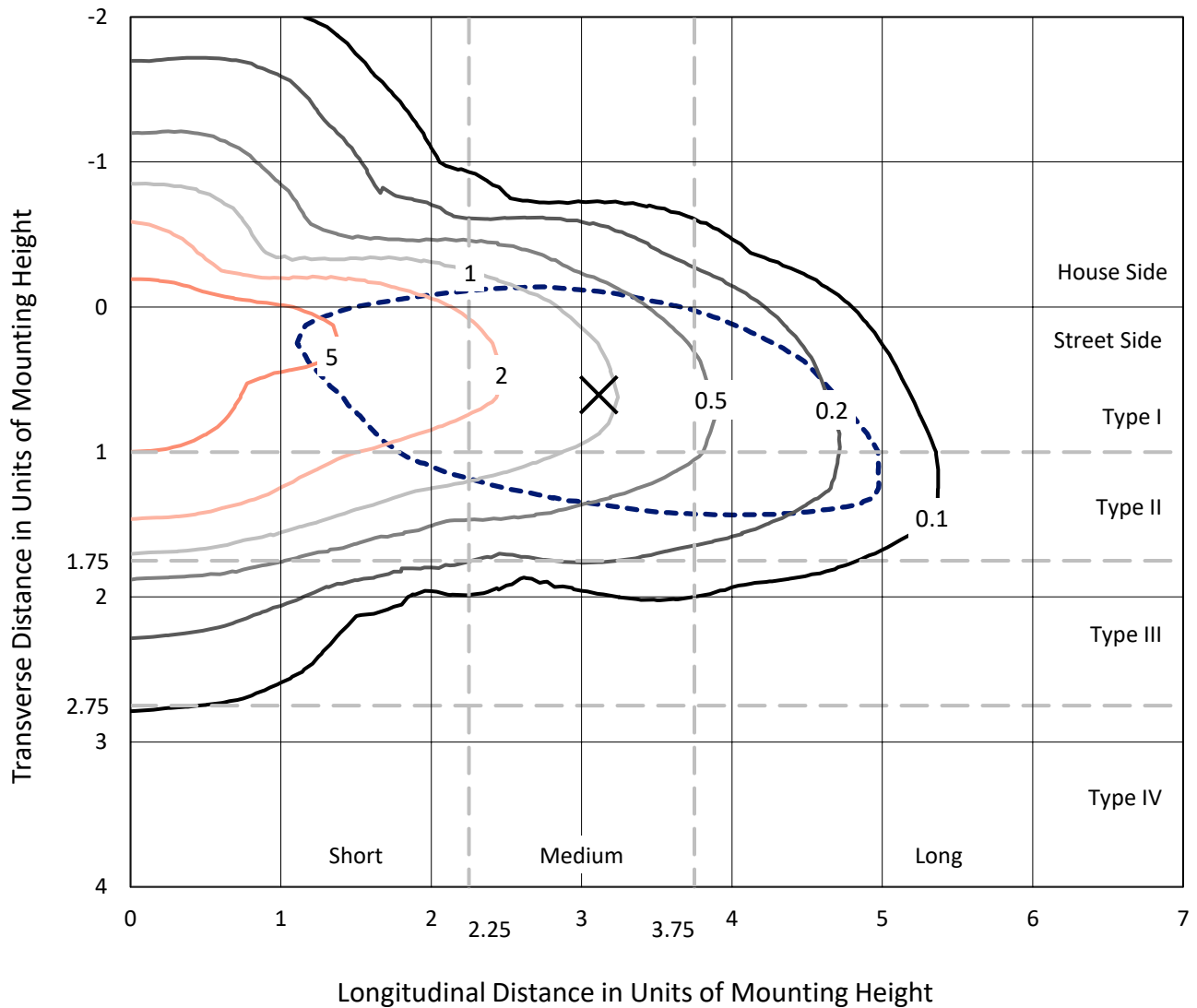
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

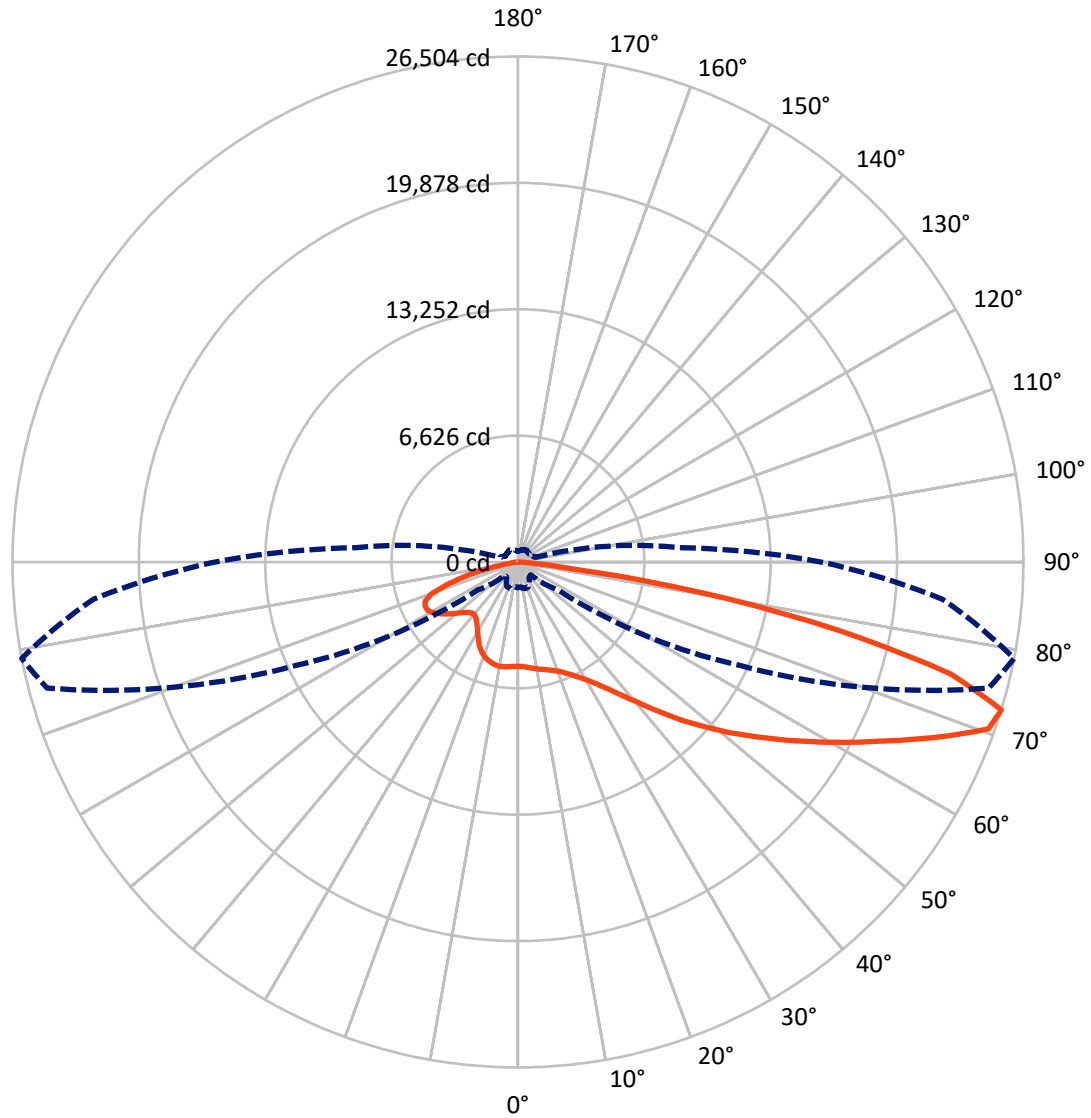
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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 | 5996.1 | 0.0 | 5996.1 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 21251.9 | 0.0 | 21251.9 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 27248.0 | 0.0 | 27248.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 496.5 | 1.8 |
| 10°-20° | 1298.1 | 4.8 |
| 20°-30° | 2094.6 | 7.7 |
| 30°-40° | 3143.7 | 11.5 |
| 40°-50° | 4459.5 | 16.4 |
| 50°-60° | 5631.8 | 20.7 |
| 60°-70° | 5719.8 | 21.0 |
| 70°-80° | 3898.3 | 14.3 |
| 80°-90° | 505.8 | 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° | 27248.0 | 100.0 |
| 0°-180° | 27248.0 | 100.0 |



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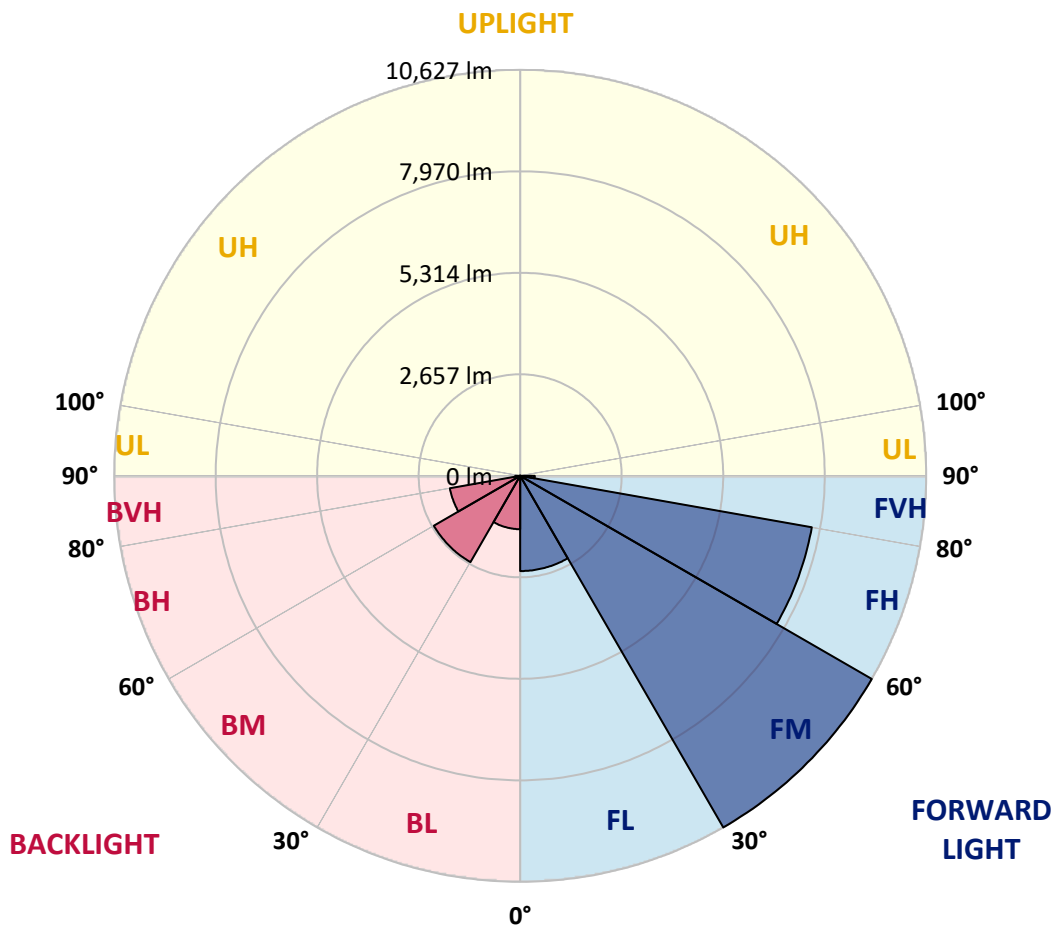
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2492.5 | 9.1 | | | |
| FM (30°-60°) | 10627.3 | 39.0 | | | |
| FH (60°-80°) | 7751.1 | 28.4 | | | G4/12000 |
| FVH (80°-90°) | 381.0 | 1.4 | | | G3/500 |
| BL (0°-30°) | 1396.7 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2607.7 | 9.6 | B3/5000 | | |
| BH (60°-80°) | 1867.0 | 6.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 124.8 | 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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 5469.8 | 5469.8 | 5469.8 | 5469.8 | 5469.8 | 5469.8 | 5469.8 | 5469.8 | 5469.8 | 5469.8 |
| 2.5° | 5472.7 | 5446.7 | 5462.6 | 5456.8 | 5464.0 | 5472.7 | 5475.5 | 5479.9 | 5494.3 | 5492.8 |
| 5° | 5461.1 | 5435.2 | 5456.8 | 5449.6 | 5468.3 | 5488.5 | 5505.8 | 5521.7 | 5544.7 | 5554.8 |
| 7.5° | 5436.6 | 5419.3 | 5441.0 | 5462.6 | 5497.2 | 5527.4 | 5551.9 | 5588.0 | 5621.1 | 5626.9 |
| 10° | 5293.9 | 5281.0 | 5331.4 | 5387.6 | 5482.7 | 5564.9 | 5618.2 | 5660.0 | 5696.1 | 5701.8 |
| 12.5° | 5145.5 | 5129.6 | 5185.8 | 5262.2 | 5416.4 | 5564.9 | 5677.3 | 5732.1 | 5763.8 | 5782.5 |
| 15° | 5121.0 | 5108.0 | 5139.7 | 5206.0 | 5334.3 | 5526.0 | 5717.7 | 5818.6 | 5846.0 | 5867.6 |
| 17.5° | 5239.2 | 5214.7 | 5227.6 | 5250.7 | 5325.6 | 5490.0 | 5749.4 | 5916.6 | 5958.4 | 5981.4 |
| 20° | 5513.0 | 5478.4 | 5458.2 | 5412.1 | 5399.2 | 5495.7 | 5746.5 | 6034.8 | 6089.5 | 6118.4 |
| 22.5° | 5877.7 | 5854.6 | 5811.4 | 5694.6 | 5567.8 | 5566.3 | 5801.3 | 6186.1 | 6288.4 | 6315.8 |
| 25° | 6318.7 | 6284.1 | 6229.3 | 6070.8 | 5827.2 | 5706.2 | 5893.5 | 6379.2 | 6550.8 | 6558.0 |
| 27.5° | 6826.1 | 6774.2 | 6699.2 | 6490.2 | 6161.6 | 5925.2 | 6034.8 | 6601.2 | 6852.0 | 6849.1 |
| 30° | 7360.8 | 7308.9 | 7229.6 | 6975.9 | 6562.3 | 6220.7 | 6230.8 | 6840.5 | 7209.4 | 7193.6 |
| 32.5° | 7751.4 | 7712.5 | 7696.6 | 7500.6 | 7023.5 | 6569.5 | 6455.6 | 7105.7 | 7650.5 | 7636.1 |
| 35° | 8051.2 | 8000.7 | 8019.5 | 7920.0 | 7526.5 | 6960.1 | 6730.9 | 7421.3 | 8186.6 | 8185.2 |
| 37.5° | 8348.1 | 8303.4 | 8319.2 | 8252.9 | 7992.1 | 7455.9 | 7066.8 | 7807.6 | 8851.1 | 8882.8 |
| 40° | 8619.0 | 8571.5 | 8634.9 | 8572.9 | 8353.8 | 7983.4 | 7448.7 | 8244.3 | 9620.8 | 9681.3 |
| 42.5° | 8781.9 | 8744.4 | 8849.7 | 8851.1 | 8668.0 | 8428.8 | 7868.1 | 8725.7 | 10511.5 | 10647.0 |
| 45° | 8838.1 | 8825.1 | 8983.7 | 9016.8 | 8946.2 | 8686.8 | 8245.7 | 9250.3 | 11471.4 | 11713.5 |
| 47.5° | 8777.6 | 8753.1 | 8972.2 | 9094.7 | 9150.9 | 8807.9 | 8558.5 | 9818.2 | 12451.5 | 12806.1 |
| 50° | 8472.0 | 8424.5 | 8750.2 | 9008.2 | 9208.5 | 8887.1 | 8874.2 | 10474.0 | 13565.6 | 13953.3 |
| 52.5° | 7922.9 | 7886.9 | 8257.3 | 8705.5 | 9081.7 | 8926.0 | 9228.7 | 11190.3 | 14623.5 | 15125.1 |
| 55° | 7221.0 | 7173.4 | 7581.3 | 8166.5 | 8766.1 | 8913.1 | 9583.3 | 11991.7 | 15871.7 | 16380.5 |
| 57.5° | 6108.3 | 6013.2 | 6529.1 | 7221.0 | 8251.5 | 8897.2 | 9952.3 | 12788.8 | 17140.1 | 17749.8 |
| 60° | 4485.4 | 4344.1 | 4976.8 | 5797.0 | 7245.5 | 8743.0 | 10409.2 | 13682.4 | 18662.1 | 19211.2 |
| 62.5° | 2611.7 | 2529.5 | 2943.2 | 3708.5 | 5461.1 | 7835.0 | 10665.7 | 14721.6 | 20158.2 | 20734.7 |
| 65° | 2027.9 | 2004.9 | 2040.9 | 2100.0 | 3039.7 | 5866.1 | 9874.4 | 15734.8 | 22060.7 | 22464.3 |
| 67.5° | 1855.0 | 1837.7 | 1853.5 | 1742.5 | 1542.2 | 3267.5 | 7811.9 | 15991.4 | 24098.7 | 24343.8 |
| 70° | 1648.9 | 1628.7 | 1680.6 | 1585.4 | 1213.6 | 1486.0 | 5047.5 | 15060.3 | 25720.2 | 26180.0 |
| 72.5° | 1343.3 | 1320.2 | 1441.3 | 1398.1 | 1021.9 | 954.1 | 2535.3 | 12847.9 | 25550.1 | 26504.3 |
| 75° | 1032.0 | 1019.0 | 1163.1 | 1199.2 | 833.1 | 750.9 | 1216.5 | 9550.1 | 22484.5 | 23445.8 |
| 77.5° | 801.4 | 791.3 | 864.8 | 995.9 | 671.7 | 582.3 | 748.0 | 6057.8 | 16944.1 | 17112.7 |
| 80° | 601.0 | 572.2 | 639.9 | 771.1 | 523.2 | 425.2 | 507.3 | 3532.7 | 10710.4 | 9708.7 |
| 82.5° | 376.2 | 361.8 | 418.0 | 514.5 | 369.0 | 292.6 | 330.1 | 1951.5 | 4292.2 | 2528.1 |
| 85° | 214.8 | 209.0 | 227.7 | 294.0 | 200.3 | 168.6 | 188.8 | 861.9 | 784.1 | 539.1 |
| 87.5° | 86.5 | 83.6 | 103.8 | 131.2 | 73.5 | 62.0 | 66.3 | 207.5 | 173.0 | 160.0 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5469.8 | 0° | 5469.8 | 5469.8 | 5469.8 | 5469.8 | 5469.8 | 5469.8 | 5469.8 | 5469.8 | 5469.8 | 5469.8 |
| 5491.4 | 2.5° | 5485.6 | 5485.6 | 5465.5 | 5433.7 | 5397.7 | 5374.7 | 5337.2 | 5327.1 | 5288.2 | 5276.6 |
| 5540.4 | 5° | 5551.9 | 5540.4 | 5478.4 | 5389.1 | 5266.6 | 5154.1 | 5030.2 | 4952.3 | 4842.8 | 4803.9 |
| 5637.0 | 7.5° | 5635.5 | 5603.8 | 5497.2 | 5301.1 | 5044.6 | 4792.4 | 4530.0 | 4331.1 | 4140.9 | 4073.1 |
| 5716.2 | 10° | 5711.9 | 5667.2 | 5485.6 | 5142.6 | 4698.7 | 4262.0 | 3844.0 | 3551.4 | 3329.4 | 3238.6 |
| 5804.2 | 12.5° | 5788.3 | 5706.2 | 5409.2 | 4878.8 | 4207.2 | 3614.8 | 3169.4 | 2941.7 | 2804.8 | 2695.3 |
| 5876.2 | 15° | 5860.4 | 5745.1 | 5291.1 | 4525.7 | 3668.1 | 3067.1 | 2738.5 | 2556.9 | 2447.3 | 2375.3 |
| 5981.4 | 17.5° | 5944.0 | 5778.2 | 5113.8 | 4077.5 | 3155.0 | 2688.0 | 2420.0 | 2310.4 | 2288.8 | 2280.2 |
| 6125.6 | 20° | 6060.7 | 5808.5 | 4880.3 | 3575.9 | 2777.4 | 2385.4 | 2247.0 | 2236.9 | 2235.5 | 2231.2 |
| 6298.5 | 22.5° | 6186.1 | 5844.5 | 4571.8 | 3120.4 | 2456.0 | 2196.6 | 2172.1 | 2151.9 | 2138.9 | 2137.5 |
| 6507.5 | 25° | 6334.6 | 5856.0 | 4185.6 | 2747.1 | 2182.1 | 2107.2 | 2078.4 | 2048.1 | 2039.5 | 2039.5 |
| 6745.3 | 27.5° | 6478.7 | 5817.1 | 3735.9 | 2422.8 | 2027.9 | 2025.0 | 1987.6 | 1977.5 | 1976.0 | 1980.4 |
| 7016.3 | 30° | 6622.8 | 5743.6 | 3289.1 | 2123.1 | 1938.6 | 1938.6 | 1925.6 | 1932.8 | 1938.6 | 1953.0 |
| 7388.2 | 32.5° | 6817.4 | 5665.8 | 2915.8 | 1901.1 | 1860.7 | 1846.3 | 1859.3 | 1873.7 | 1879.5 | 1898.2 |
| 7876.8 | 35° | 7102.8 | 5611.0 | 2618.9 | 1780.0 | 1780.0 | 1761.3 | 1768.5 | 1765.6 | 1752.6 | 1744.0 |
| 8467.7 | 37.5° | 7480.4 | 5608.1 | 2373.8 | 1723.8 | 1712.3 | 1709.4 | 1710.8 | 1692.1 | 1641.7 | 1581.1 |
| 9182.6 | 40° | 7934.4 | 5686.0 | 2185.0 | 1684.9 | 1676.2 | 1693.5 | 1684.9 | 1634.4 | 1496.1 | 1390.9 |
| 10061.8 | 42.5° | 8544.1 | 5907.9 | 2064.0 | 1637.3 | 1663.3 | 1684.9 | 1650.3 | 1475.9 | 1382.2 | 1311.6 |
| 11063.5 | 45° | 9261.9 | 6268.3 | 2002.0 | 1586.9 | 1638.8 | 1664.7 | 1497.5 | 1421.1 | 1346.2 | 1261.1 |
| 12156.0 | 47.5° | 10074.8 | 6722.3 | 1987.6 | 1539.3 | 1584.0 | 1599.9 | 1432.7 | 1398.1 | 1313.0 | 1220.8 |
| 13254.3 | 50° | 10959.7 | 7259.9 | 2026.5 | 1483.1 | 1504.7 | 1450.0 | 1411.0 | 1379.3 | 1291.4 | 1200.6 |
| 14380.0 | 52.5° | 11875.0 | 7852.3 | 2104.3 | 1406.7 | 1425.5 | 1364.9 | 1402.4 | 1375.0 | 1278.4 | 1155.9 |
| 15543.1 | 55° | 12774.3 | 8449.0 | 2179.3 | 1317.4 | 1344.7 | 1288.5 | 1377.9 | 1357.7 | 1219.3 | 1081.0 |
| 16784.1 | 57.5° | 13688.1 | 9042.8 | 2252.8 | 1238.1 | 1266.9 | 1215.0 | 1339.0 | 1311.6 | 1153.0 | 1011.8 |
| 18138.9 | 60° | 14638.0 | 9619.3 | 2287.4 | 1161.7 | 1181.9 | 1147.3 | 1279.9 | 1232.3 | 1078.1 | 941.2 |
| 19470.7 | 62.5° | 15527.2 | 10099.3 | 2231.2 | 1085.3 | 1098.3 | 1083.9 | 1202.1 | 1138.6 | 1003.2 | 861.9 |
| 20858.7 | 65° | 16419.4 | 10384.6 | 2058.2 | 1010.4 | 1013.2 | 1006.0 | 1092.5 | 1037.7 | 915.2 | 792.7 |
| 22073.7 | 67.5° | 17228.0 | 10544.6 | 1782.9 | 929.6 | 922.4 | 919.6 | 990.2 | 928.2 | 830.2 | 723.5 |
| 22997.6 | 70° | 17399.5 | 10138.2 | 1362.0 | 834.5 | 834.5 | 827.3 | 877.8 | 814.3 | 736.5 | 650.0 |
| 22336.0 | 72.5° | 15891.9 | 8528.2 | 967.1 | 726.4 | 738.0 | 723.5 | 765.3 | 712.0 | 641.4 | 583.7 |
| 19250.2 | 75° | 12814.7 | 6253.9 | 703.4 | 615.4 | 635.6 | 611.1 | 650.0 | 612.6 | 552.0 | 550.6 |
| 13265.8 | 77.5° | 8805.0 | 3867.0 | 510.2 | 507.3 | 521.8 | 490.0 | 534.7 | 514.5 | 459.8 | 435.3 |
| 5773.9 | 80° | 3757.5 | 1542.2 | 371.9 | 392.0 | 392.0 | 363.2 | 415.1 | 420.9 | 373.3 | 361.8 |
| 1114.1 | 82.5° | 748.0 | 438.2 | 260.9 | 269.5 | 253.7 | 245.0 | 294.0 | 325.7 | 449.7 | 500.1 |
| 335.8 | 85° | 224.8 | 161.4 | 157.1 | 147.0 | 129.7 | 131.2 | 173.0 | 327.2 | 403.6 | 230.6 |
| 111.0 | 87.5° | 62.0 | 40.4 | 41.8 | 33.2 | 27.4 | 36.0 | 59.1 | 247.9 | 135.5 | 57.7 |
| 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> |
|-------------|
| 5469.8 |
| 5295.4 |
| 4832.7 |
| 4081.8 |
| 3258.8 |
| 2731.3 |
| 2388.3 |
| 2285.9 |
| 2245.6 |
| 2153.3 |
| 2048.1 |
| 1991.9 |
| 1963.1 |
| 1914.1 |
| 1764.2 |
| 1582.6 |
| 1388.0 |
| 1308.7 |
| 1255.4 |
| 1213.6 |
| 1190.5 |
| 1147.3 |
| 1073.8 |
| 1008.9 |
| 936.9 |
| 860.5 |
| 784.1 |
| 714.9 |
| 647.1 |
| 566.4 |
| 495.8 |
| 407.9 |
| 361.8 |
| 501.6 |
| 198.9 |
| 49.0 |
| 0.0 |

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