

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: P948973

Luminaire Tested: **GALN-SB3D-840-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948973
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-SB3D-840-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29028 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

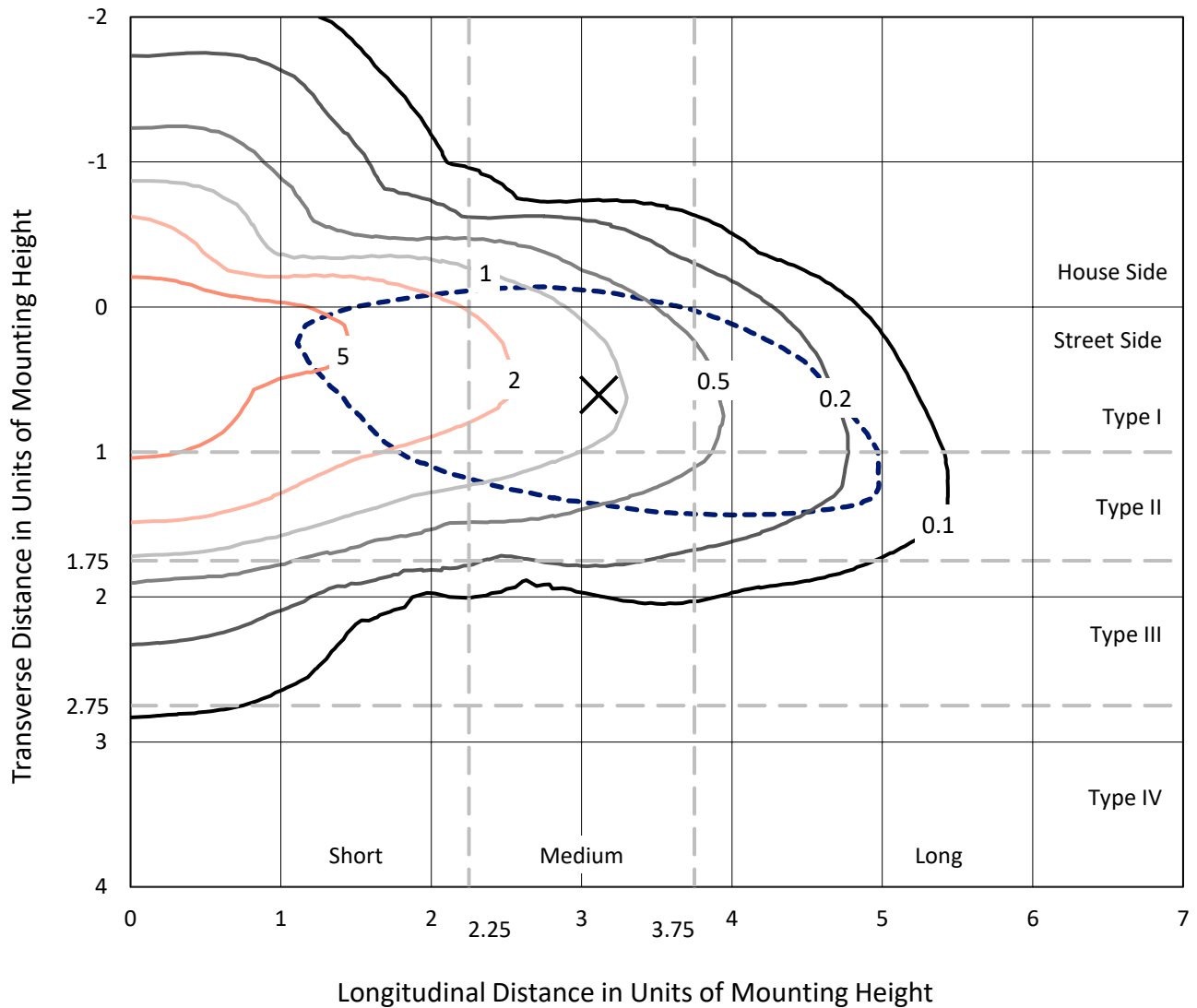
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

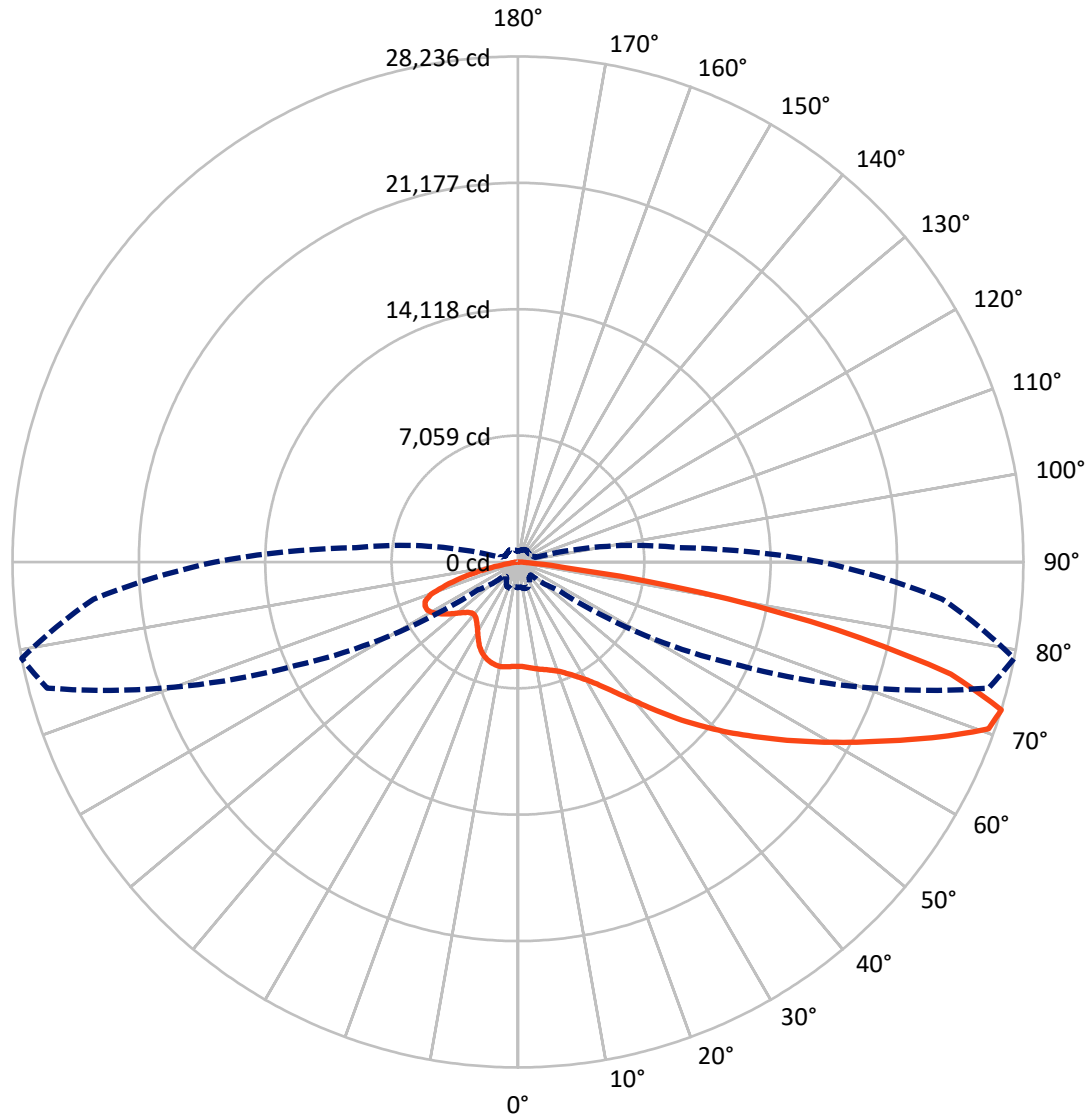
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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 | 6387.7 | 0.0 | 6387.7 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 22640.2 | 0.0 | 22640.2 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 29028.0 | 0.0 | 29028.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 528.9 | 1.8 |
| 10°-20° | 1382.9 | 4.8 |
| 20°-30° | 2231.4 | 7.7 |
| 30°-40° | 3349.0 | 11.5 |
| 40°-50° | 4750.8 | 16.4 |
| 50°-60° | 5999.6 | 20.7 |
| 60°-70° | 6093.5 | 21.0 |
| 70°-80° | 4153.0 | 14.3 |
| 80°-90° | 538.8 | 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° | 29028.0 | 100.0 |
| 0°-180° | 29028.0 | 100.0 |



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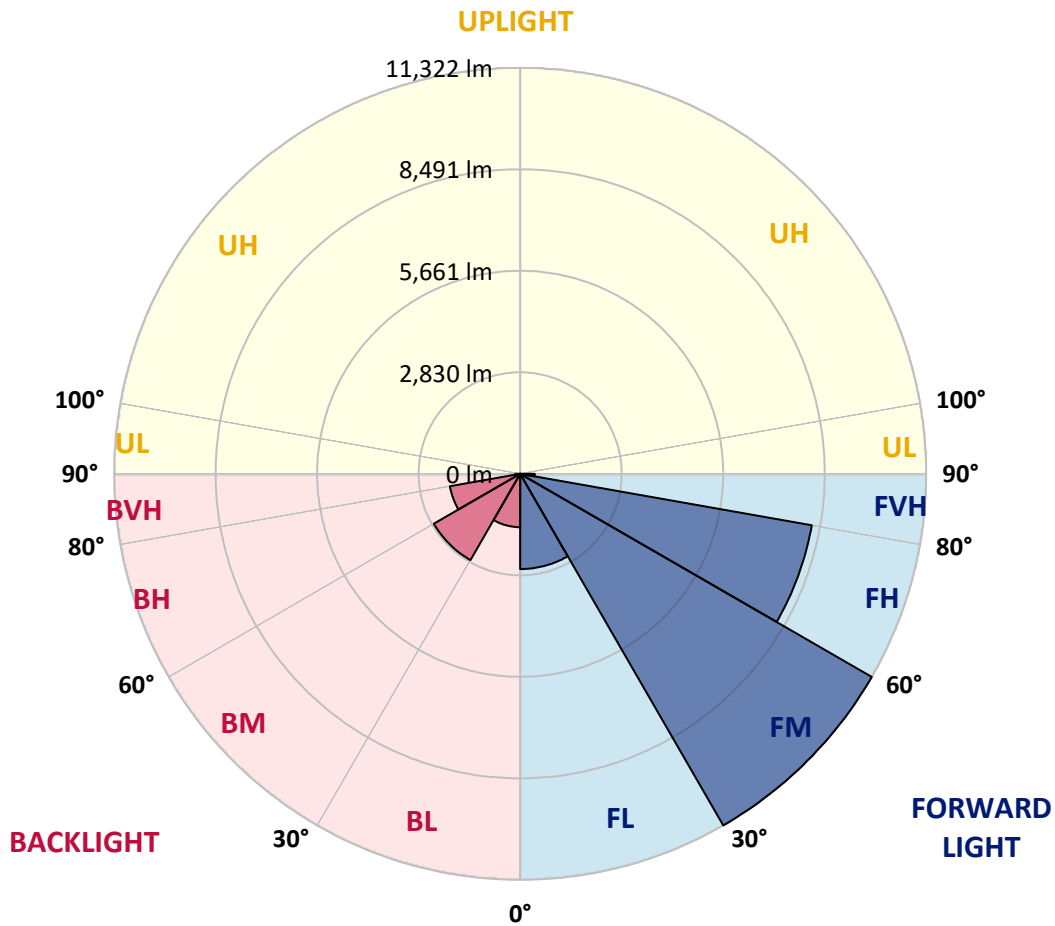
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2655.4 | 9.1 | | | |
| FM (30°-60°) | 11321.5 | 39.0 | | | |
| FH (60°-80°) | 8257.5 | 28.4 | | | G4/12000 |
| FVH (80°-90°) | 405.9 | 1.4 | | | G3/500 |
| BL (0°-30°) | 1487.9 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2778.0 | 9.6 | B3/5000 | | |
| BH (60°-80°) | 1988.9 | 6.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 132.9 | 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° | 5827.1 | 5827.1 | 5827.1 | 5827.1 | 5827.1 | 5827.1 | 5827.1 | 5827.1 | 5827.1 | 5827.1 |
| 2.5° | 5830.2 | 5802.5 | 5819.4 | 5813.3 | 5821.0 | 5830.2 | 5833.2 | 5837.8 | 5853.2 | 5851.7 |
| 5° | 5817.9 | 5790.2 | 5813.3 | 5805.6 | 5825.6 | 5847.1 | 5865.5 | 5882.4 | 5906.9 | 5917.7 |
| 7.5° | 5791.8 | 5773.4 | 5796.4 | 5819.4 | 5856.3 | 5888.5 | 5914.6 | 5953.0 | 5988.3 | 5994.5 |
| 10° | 5639.8 | 5625.9 | 5679.7 | 5739.6 | 5840.9 | 5928.4 | 5985.2 | 6029.8 | 6068.2 | 6074.3 |
| 12.5° | 5481.6 | 5464.7 | 5524.6 | 5606.0 | 5770.3 | 5928.4 | 6048.2 | 6106.5 | 6140.3 | 6160.3 |
| 15° | 5455.5 | 5441.7 | 5475.5 | 5546.1 | 5682.8 | 5887.0 | 6091.2 | 6198.7 | 6227.9 | 6250.9 |
| 17.5° | 5581.4 | 5555.3 | 5569.1 | 5593.7 | 5673.5 | 5848.6 | 6125.0 | 6303.1 | 6347.6 | 6372.2 |
| 20° | 5873.2 | 5836.3 | 5814.8 | 5765.7 | 5751.9 | 5854.7 | 6121.9 | 6429.0 | 6487.3 | 6518.1 |
| 22.5° | 6261.6 | 6237.1 | 6191.0 | 6066.6 | 5931.5 | 5930.0 | 6180.3 | 6590.2 | 6699.2 | 6728.4 |
| 25° | 6731.5 | 6694.6 | 6636.3 | 6467.4 | 6207.9 | 6078.9 | 6278.5 | 6796.0 | 6978.7 | 6986.4 |
| 27.5° | 7272.0 | 7216.7 | 7136.8 | 6914.2 | 6564.1 | 6312.3 | 6429.0 | 7032.4 | 7299.6 | 7296.5 |
| 30° | 7841.6 | 7786.4 | 7701.9 | 7431.7 | 6991.0 | 6627.1 | 6637.8 | 7287.3 | 7680.4 | 7663.5 |
| 32.5° | 8257.7 | 8216.3 | 8199.4 | 7990.6 | 7482.3 | 6998.7 | 6877.4 | 7569.8 | 8150.3 | 8134.9 |
| 35° | 8577.1 | 8523.4 | 8543.3 | 8437.4 | 8018.2 | 7414.8 | 7170.6 | 7906.1 | 8721.4 | 8719.9 |
| 37.5° | 8893.4 | 8845.8 | 8862.7 | 8792.1 | 8514.2 | 7943.0 | 7528.4 | 8317.6 | 9429.3 | 9463.1 |
| 40° | 9182.1 | 9131.4 | 9199.0 | 9133.0 | 8899.6 | 8504.9 | 7935.3 | 8782.9 | 10249.2 | 10313.7 |
| 42.5° | 9355.6 | 9315.7 | 9427.8 | 9429.3 | 9234.3 | 8979.4 | 8382.1 | 9295.7 | 11198.2 | 11342.5 |
| 45° | 9415.5 | 9401.7 | 9570.6 | 9605.9 | 9530.6 | 9254.3 | 8784.4 | 9854.6 | 12220.8 | 12478.7 |
| 47.5° | 9351.0 | 9324.9 | 9558.3 | 9688.8 | 9748.7 | 9383.2 | 9117.6 | 10459.6 | 13264.9 | 13642.6 |
| 50° | 9025.5 | 8974.8 | 9321.8 | 9596.7 | 9810.1 | 9467.7 | 9453.9 | 11158.2 | 14451.8 | 14864.9 |
| 52.5° | 8440.5 | 8402.1 | 8796.7 | 9274.2 | 9675.0 | 9509.1 | 9831.6 | 11921.4 | 15578.8 | 16113.2 |
| 55° | 7692.7 | 7642.0 | 8076.6 | 8700.0 | 9338.7 | 9495.3 | 10209.3 | 12775.1 | 16908.6 | 17450.6 |
| 57.5° | 6507.3 | 6406.0 | 6955.7 | 7692.7 | 8790.5 | 9478.4 | 10602.4 | 13624.2 | 18259.8 | 18909.3 |
| 60° | 4778.4 | 4627.9 | 5302.0 | 6175.6 | 7718.8 | 9314.1 | 11089.1 | 14576.2 | 19881.2 | 20466.2 |
| 62.5° | 2782.3 | 2694.7 | 3135.4 | 3950.8 | 5817.9 | 8346.8 | 11362.5 | 15683.3 | 21475.0 | 22089.2 |
| 65° | 2160.4 | 2135.8 | 2174.2 | 2237.2 | 3238.3 | 6249.3 | 10519.5 | 16762.7 | 23501.8 | 23931.8 |
| 67.5° | 1976.1 | 1957.7 | 1974.6 | 1856.4 | 1642.9 | 3480.9 | 8322.2 | 17036.0 | 25673.0 | 25934.0 |
| 70° | 1756.6 | 1735.1 | 1790.4 | 1689.0 | 1292.9 | 1583.1 | 5377.2 | 16044.1 | 27400.4 | 27890.2 |
| 72.5° | 1431.1 | 1406.5 | 1535.5 | 1489.4 | 1088.6 | 1016.5 | 2700.9 | 13687.1 | 27219.2 | 28235.7 |
| 75° | 1099.4 | 1085.6 | 1239.1 | 1277.5 | 887.5 | 800.0 | 1295.9 | 10174.0 | 23953.3 | 24977.4 |
| 77.5° | 853.7 | 843.0 | 921.3 | 1061.0 | 715.5 | 620.3 | 796.9 | 6453.6 | 18050.9 | 18230.6 |
| 80° | 640.3 | 609.6 | 681.7 | 821.5 | 557.4 | 453.0 | 540.5 | 3763.4 | 11410.1 | 10342.9 |
| 82.5° | 400.8 | 385.4 | 445.3 | 548.2 | 393.1 | 311.7 | 351.6 | 2079.0 | 4572.6 | 2693.2 |
| 85° | 228.8 | 222.6 | 242.6 | 313.2 | 213.4 | 179.6 | 201.1 | 918.2 | 835.3 | 574.3 |
| 87.5° | 92.1 | 89.1 | 110.6 | 139.7 | 78.3 | 66.0 | 70.6 | 221.1 | 184.3 | 170.4 |
| 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° |
|----------------|--------------|----------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 5827.1 | 0° | 5827.1 | 5827.1 | 5827.1 | 5827.1 | 5827.1 | 5827.1 | 5827.1 | 5827.1 | 5827.1 | 5827.1 |
| 5850.1 | 2.5° | 5844.0 | 5844.0 | 5822.5 | 5788.7 | 5750.3 | 5725.8 | 5685.8 | 5675.1 | 5633.6 | 5621.3 |
| 5902.3 | 5° | 5914.6 | 5902.3 | 5836.3 | 5741.1 | 5610.6 | 5490.8 | 5358.8 | 5275.9 | 5159.2 | 5117.7 |
| 6005.2 | 7.5° | 6003.7 | 5969.9 | 5856.3 | 5647.4 | 5374.1 | 5105.4 | 4826.0 | 4614.1 | 4411.4 | 4339.2 |
| 6089.7 | 10° | 6085.1 | 6037.5 | 5844.0 | 5478.5 | 5005.6 | 4540.4 | 4095.1 | 3783.4 | 3546.9 | 3450.2 |
| 6183.3 | 12.5° | 6166.4 | 6078.9 | 5762.6 | 5197.6 | 4482.0 | 3850.9 | 3376.5 | 3133.9 | 2988.0 | 2871.3 |
| 6260.1 | 15° | 6243.2 | 6120.4 | 5636.7 | 4821.4 | 3907.8 | 3267.5 | 2917.4 | 2723.9 | 2607.2 | 2530.4 |
| 6372.2 | 17.5° | 6332.3 | 6155.7 | 5447.8 | 4343.8 | 3361.1 | 2863.6 | 2578.0 | 2461.4 | 2438.3 | 2429.1 |
| 6525.7 | 20° | 6456.6 | 6187.9 | 5199.1 | 3809.5 | 2958.8 | 2541.2 | 2393.8 | 2383.0 | 2381.5 | 2376.9 |
| 6710.0 | 22.5° | 6590.2 | 6226.3 | 4870.5 | 3324.3 | 2616.4 | 2340.1 | 2313.9 | 2292.5 | 2278.6 | 2277.1 |
| 6932.6 | 25° | 6748.4 | 6238.6 | 4459.0 | 2926.6 | 2324.7 | 2244.9 | 2214.1 | 2181.9 | 2172.7 | 2172.7 |
| 7186.0 | 27.5° | 6901.9 | 6197.1 | 3979.9 | 2581.1 | 2160.4 | 2157.3 | 2117.4 | 2106.7 | 2105.1 | 2109.7 |
| 7474.7 | 30° | 7055.5 | 6118.8 | 3503.9 | 2261.7 | 2065.2 | 2065.2 | 2051.4 | 2059.1 | 2065.2 | 2080.6 |
| 7870.8 | 32.5° | 7262.8 | 6035.9 | 3106.2 | 2025.3 | 1982.3 | 1966.9 | 1980.8 | 1996.1 | 2002.2 | 2022.2 |
| 8391.3 | 35° | 7566.8 | 5977.6 | 2789.9 | 1896.3 | 1896.3 | 1876.3 | 1884.0 | 1880.9 | 1867.1 | 1857.9 |
| 9020.9 | 37.5° | 7969.1 | 5974.5 | 2528.9 | 1836.4 | 1824.1 | 1821.1 | 1822.6 | 1802.6 | 1748.9 | 1684.4 |
| 9782.5 | 40° | 8452.7 | 6057.4 | 2327.8 | 1795.0 | 1785.7 | 1804.2 | 1795.0 | 1741.2 | 1593.8 | 1481.7 |
| 10719.1 | 42.5° | 9102.2 | 6293.9 | 2198.8 | 1744.3 | 1771.9 | 1795.0 | 1758.1 | 1572.3 | 1472.5 | 1397.3 |
| 11786.2 | 45° | 9866.9 | 6677.7 | 2132.8 | 1690.5 | 1745.8 | 1773.5 | 1595.3 | 1514.0 | 1434.1 | 1343.5 |
| 12950.1 | 47.5° | 10732.9 | 7161.4 | 2117.4 | 1639.9 | 1687.5 | 1704.4 | 1526.3 | 1489.4 | 1398.8 | 1300.5 |
| 14120.1 | 50° | 11675.7 | 7734.1 | 2158.9 | 1580.0 | 1603.0 | 1544.7 | 1503.2 | 1469.4 | 1375.8 | 1279.0 |
| 15319.3 | 52.5° | 12650.7 | 8365.2 | 2241.8 | 1498.6 | 1518.6 | 1454.1 | 1494.0 | 1464.8 | 1362.0 | 1231.4 |
| 16558.5 | 55° | 13608.8 | 9000.9 | 2321.6 | 1403.4 | 1432.6 | 1372.7 | 1467.9 | 1446.4 | 1299.0 | 1151.6 |
| 17880.5 | 57.5° | 14582.3 | 9633.5 | 2399.9 | 1319.0 | 1349.7 | 1294.4 | 1426.4 | 1397.3 | 1228.4 | 1077.9 |
| 19323.8 | 60° | 15594.2 | 10247.7 | 2436.8 | 1237.6 | 1259.1 | 1222.2 | 1363.5 | 1312.8 | 1148.5 | 1002.7 |
| 20742.6 | 62.5° | 16541.6 | 10759.0 | 2376.9 | 1156.2 | 1170.0 | 1154.7 | 1280.6 | 1213.0 | 1068.7 | 918.2 |
| 22221.3 | 65° | 17492.0 | 11063.0 | 2192.6 | 1076.4 | 1079.4 | 1071.8 | 1163.9 | 1105.5 | 975.0 | 844.5 |
| 23515.7 | 67.5° | 18353.4 | 11233.5 | 1899.4 | 990.4 | 982.7 | 979.6 | 1054.9 | 988.8 | 884.4 | 770.8 |
| 24499.9 | 70° | 18536.2 | 10800.5 | 1451.0 | 889.0 | 889.0 | 881.4 | 935.1 | 867.5 | 784.6 | 692.5 |
| 23795.1 | 72.5° | 16930.1 | 9085.4 | 1030.3 | 773.9 | 786.2 | 770.8 | 815.3 | 758.5 | 683.3 | 621.9 |
| 20507.7 | 75° | 13651.8 | 6662.4 | 749.3 | 655.6 | 677.1 | 651.0 | 692.5 | 652.6 | 588.1 | 586.5 |
| 14132.4 | 77.5° | 9380.2 | 4119.7 | 543.6 | 540.5 | 555.8 | 522.1 | 569.7 | 548.2 | 489.8 | 463.7 |
| 6151.1 | 80° | 4003.0 | 1642.9 | 396.2 | 417.6 | 417.6 | 386.9 | 442.2 | 448.4 | 397.7 | 385.4 |
| 1186.9 | 82.5° | 796.9 | 466.8 | 277.9 | 287.1 | 270.2 | 261.0 | 313.2 | 347.0 | 479.1 | 532.8 |
| 357.8 | 85° | 239.5 | 172.0 | 167.4 | 156.6 | 138.2 | 139.7 | 184.3 | 348.6 | 429.9 | 245.7 |
| 118.2 | 87.5° | 66.0 | 43.0 | 44.5 | 35.3 | 29.2 | 38.4 | 63.0 | 264.1 | 144.3 | 61.4 |
| 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> |
|-------------|
| 5827.1 |
| 5641.3 |
| 5148.4 |
| 4348.4 |
| 3471.7 |
| 2909.7 |
| 2544.3 |
| 2435.2 |
| 2392.3 |
| 2294.0 |
| 2181.9 |
| 2122.0 |
| 2091.3 |
| 2039.1 |
| 1879.4 |
| 1685.9 |
| 1478.7 |
| 1394.2 |
| 1337.4 |
| 1292.9 |
| 1268.3 |
| 1222.2 |
| 1143.9 |
| 1074.8 |
| 998.1 |
| 916.7 |
| 835.3 |
| 761.6 |
| 689.4 |
| 603.4 |
| 528.2 |
| 434.5 |
| 385.4 |
| 534.3 |
| 211.9 |
| 52.2 |
| 0.0 |

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