

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: P949012

Luminaire Tested: **GALN-SB3D-927-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-927-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18901 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

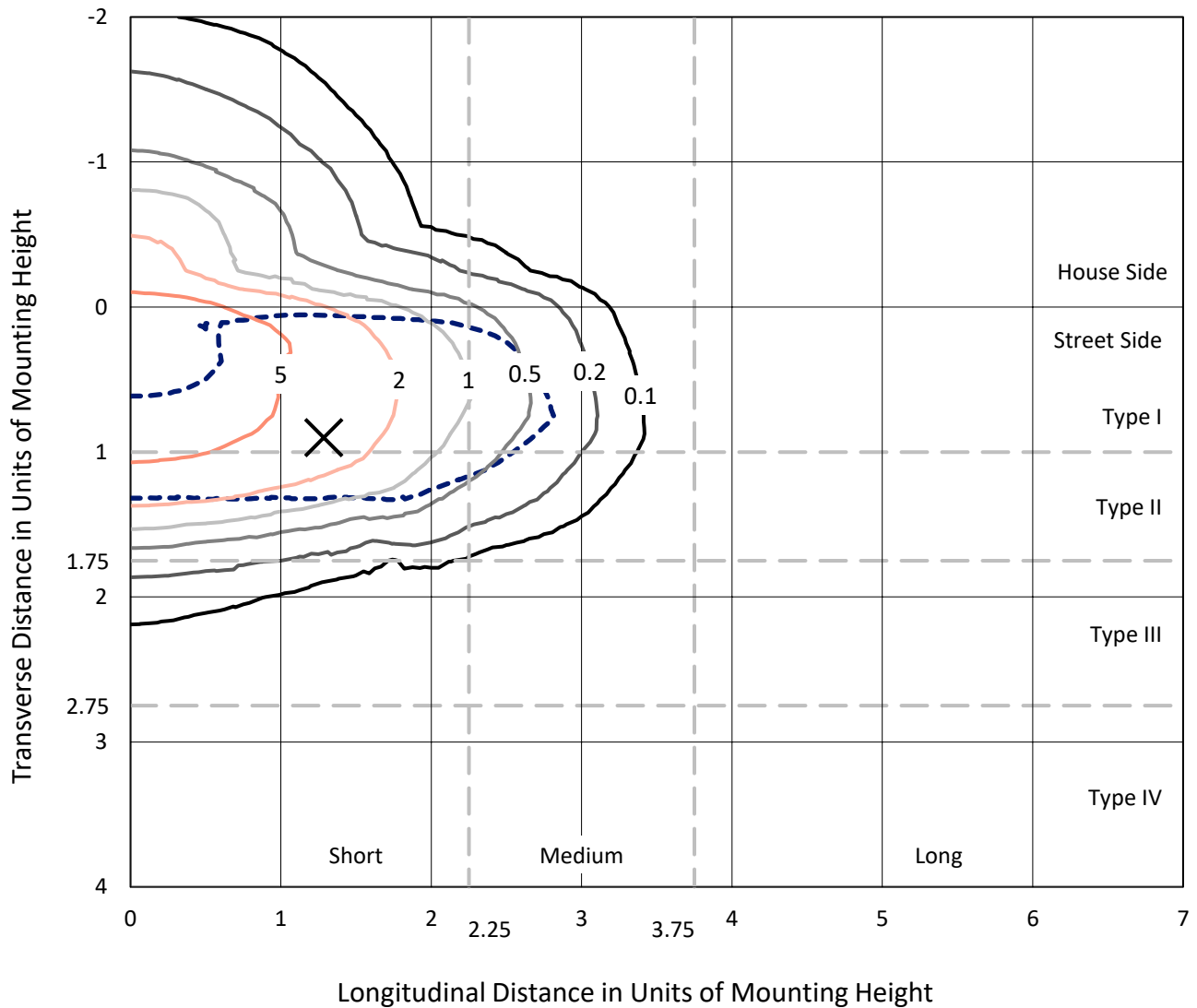
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

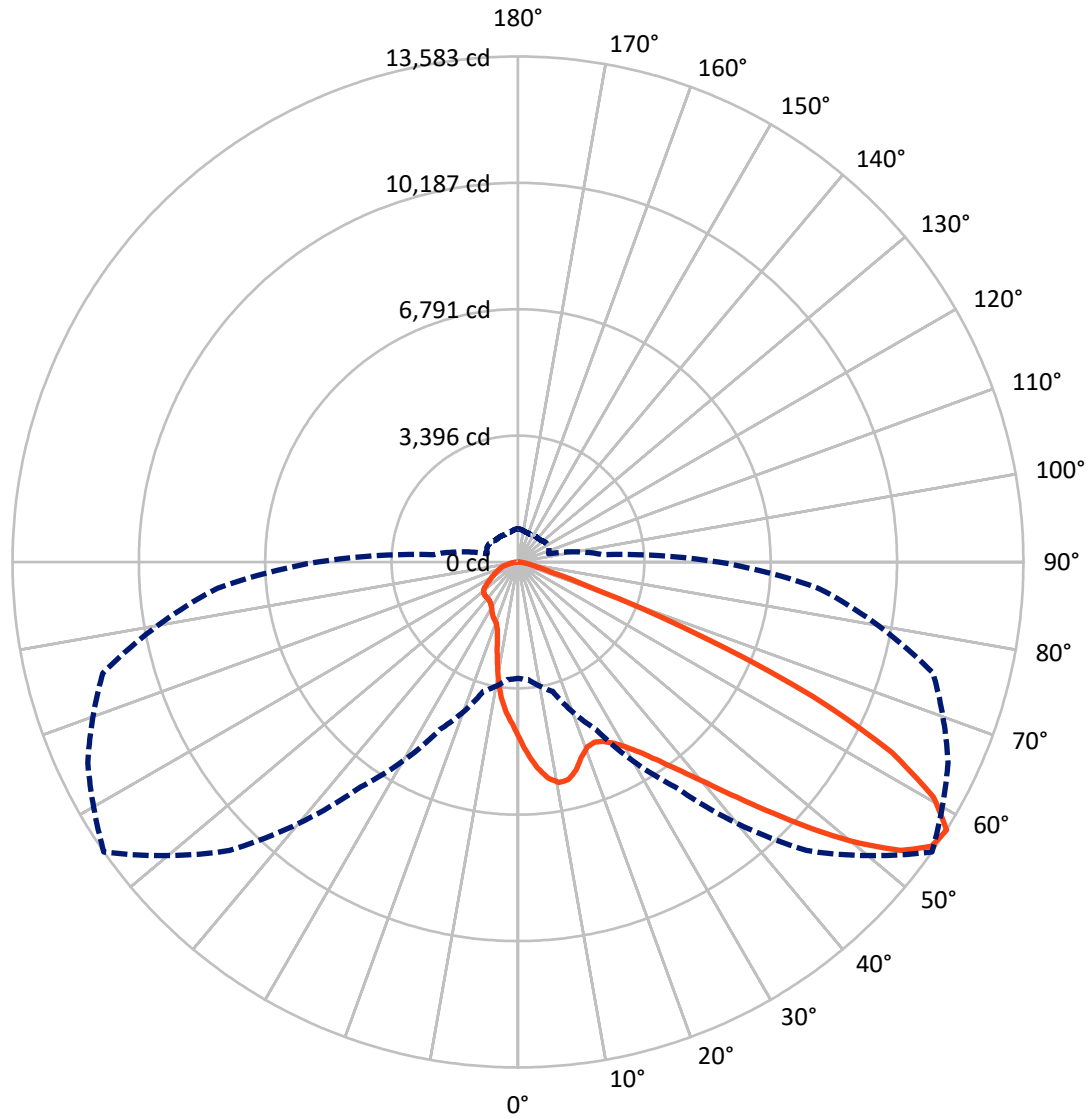
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3420.0 | 0.0 | 3420.0 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 15481.0 | 0.0 | 15481.0 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 18901.0 | 0.0 | 18901.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 439.5 | 2.3 |
| 10°-20° | 1109.2 | 5.9 |
| 20°-30° | 1770.0 | 9.4 |
| 30°-40° | 2802.4 | 14.8 |
| 40°-50° | 4289.4 | 22.7 |
| 50°-60° | 4594.3 | 24.3 |
| 60°-70° | 2890.3 | 15.3 |
| 70°-80° | 854.7 | 4.5 |
| 80°-90° | 151.1 | 0.8 |
| 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° | 18901.0 | 100.0 |
| 0°-180° | 18901.0 | 100.0 |



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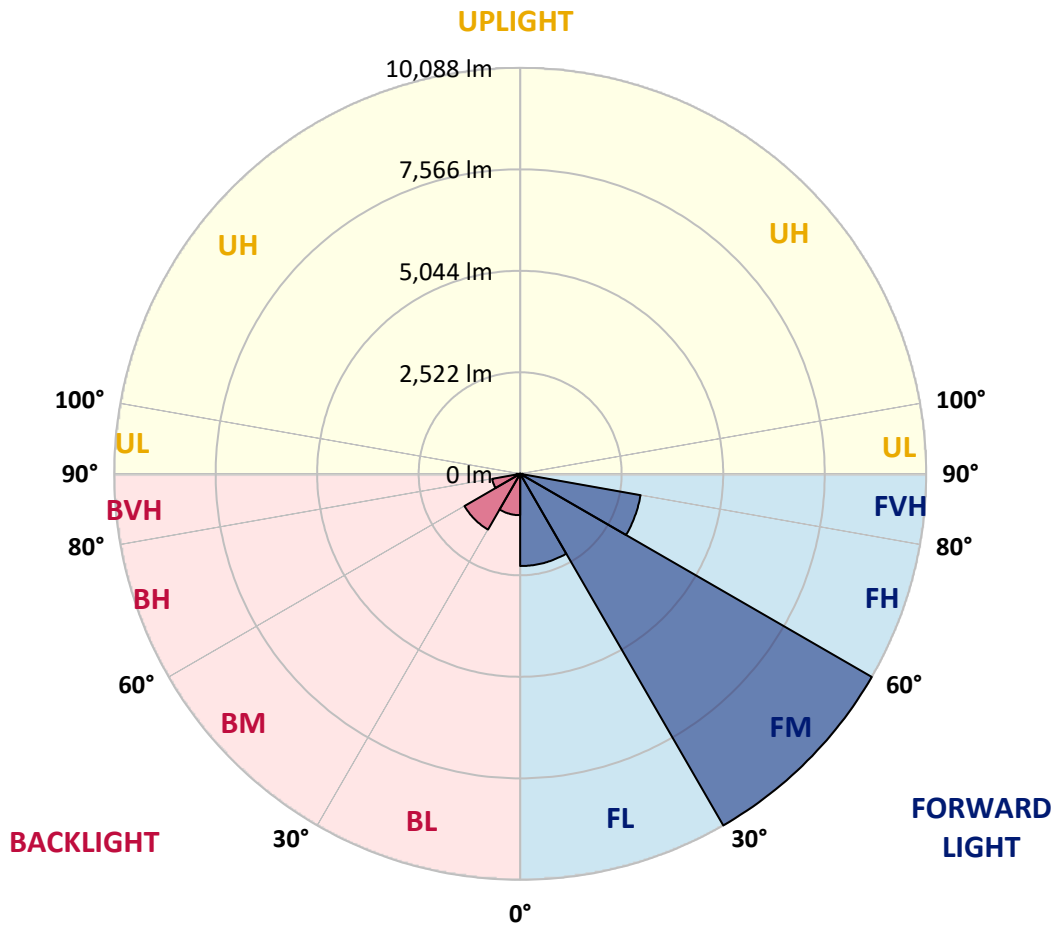
CATALOG NUMBER: GALN-SB3D-927-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2290.8 | 12.1 | | | |
| FM (30°-60°) | 10087.6 | 53.4 | | | |
| FH (60°-80°) | 3038.7 | 16.1 | | | G2/5000 |
| FVH (80°-90°) | 63.8 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1028.0 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 1598.5 | 8.5 | B2/2500 | | |
| BH (60°-80°) | 706.3 | 3.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 87.3 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 4736.0 | 4736.0 | 4736.0 | 4736.0 | 4736.0 | 4736.0 | 4736.0 | 4736.0 | 4736.0 | 4736.0 |
| 2.5° | 5433.6 | 5429.7 | 5451.2 | 5377.9 | 5328.1 | 5260.7 | 5171.8 | 5058.4 | 4936.3 | 4807.3 |
| 5° | 5923.1 | 5888.9 | 5911.4 | 5856.7 | 5802.0 | 5700.4 | 5568.5 | 5383.8 | 5158.1 | 4901.1 |
| 7.5° | 5846.0 | 5822.5 | 5880.2 | 5929.0 | 5970.0 | 5957.3 | 5860.6 | 5667.1 | 5376.0 | 5002.7 |
| 10° | 5223.5 | 5197.2 | 5278.3 | 5447.3 | 5695.5 | 5911.4 | 6028.7 | 5908.5 | 5598.8 | 5114.1 |
| 12.5° | 4674.4 | 4661.7 | 4715.5 | 4852.3 | 5127.8 | 5542.1 | 6007.2 | 6119.5 | 5830.3 | 5246.0 |
| 15° | 4439.9 | 4424.3 | 4458.5 | 4527.9 | 4703.7 | 5089.7 | 5811.8 | 6264.2 | 6058.0 | 5398.4 |
| 17.5° | 4388.1 | 4370.5 | 4385.2 | 4421.4 | 4534.7 | 4828.8 | 5516.7 | 6335.5 | 6295.4 | 5568.5 |
| 20° | 4483.9 | 4469.2 | 4471.2 | 4469.2 | 4548.4 | 4781.9 | 5311.5 | 6308.1 | 6502.6 | 5724.8 |
| 22.5° | 4715.5 | 4691.0 | 4692.0 | 4640.2 | 4683.2 | 4864.0 | 5257.7 | 6234.8 | 6687.2 | 5861.6 |
| 25° | 5092.6 | 5048.6 | 5057.4 | 4925.5 | 4913.8 | 5047.7 | 5341.8 | 6178.2 | 6870.9 | 5971.0 |
| 27.5° | 5608.5 | 5558.7 | 5532.3 | 5335.9 | 5242.1 | 5308.6 | 5512.8 | 6197.7 | 7044.9 | 6065.8 |
| 30° | 6253.4 | 6192.8 | 6139.1 | 5860.6 | 5690.6 | 5666.2 | 5778.5 | 6326.7 | 7250.0 | 6165.5 |
| 32.5° | 7043.9 | 6973.5 | 6875.8 | 6506.5 | 6267.1 | 6139.1 | 6122.5 | 6556.3 | 7490.4 | 6292.5 |
| 35° | 7984.8 | 7893.0 | 7754.2 | 7276.4 | 6973.5 | 6711.7 | 6575.8 | 6887.5 | 7819.7 | 6484.0 |
| 37.5° | 8954.1 | 8850.5 | 8723.5 | 8154.8 | 7782.6 | 7396.6 | 7128.9 | 7337.0 | 8258.4 | 6743.9 |
| 40° | 9848.1 | 9731.9 | 9613.6 | 9107.5 | 8707.9 | 8242.8 | 7806.0 | 7905.7 | 8794.8 | 7054.6 |
| 42.5° | 10375.8 | 10289.8 | 10244.8 | 9971.2 | 9662.5 | 9190.6 | 8648.3 | 8579.9 | 9397.7 | 7412.2 |
| 45° | 10352.3 | 10317.1 | 10455.9 | 10569.2 | 10495.9 | 10234.1 | 9635.1 | 9325.4 | 10002.5 | 7722.0 |
| 47.5° | 9799.3 | 9822.7 | 10132.5 | 10769.5 | 11050.0 | 11186.8 | 10758.8 | 10057.2 | 10528.2 | 7953.5 |
| 50° | 8294.6 | 8314.1 | 9031.3 | 10405.1 | 11192.6 | 11963.5 | 11873.7 | 10771.5 | 10935.6 | 8095.2 |
| 52.5° | 7103.5 | 7116.2 | 7424.0 | 9324.4 | 10721.7 | 12354.4 | 12878.1 | 11444.7 | 11233.7 | 8134.3 |
| 55° | 5350.6 | 5394.5 | 5739.5 | 7315.5 | 9496.4 | 12044.6 | 13489.8 | 12138.4 | 11422.2 | 8138.2 |
| 57.5° | 3125.7 | 3173.6 | 3599.6 | 4965.6 | 7381.0 | 10965.0 | 13582.6 | 12754.0 | 11550.2 | 8107.0 |
| 60° | 1531.1 | 1551.6 | 1737.3 | 2609.8 | 4551.3 | 8884.7 | 12836.1 | 13052.0 | 11621.6 | 8090.3 |
| 62.5° | 1031.8 | 1028.9 | 1036.7 | 1287.8 | 2242.4 | 5708.2 | 11280.6 | 12530.3 | 11583.5 | 8026.8 |
| 65° | 887.2 | 876.5 | 847.1 | 903.8 | 1161.8 | 2610.8 | 8715.7 | 10972.8 | 11293.3 | 7867.6 |
| 67.5° | 767.0 | 768.0 | 769.0 | 751.4 | 829.6 | 1204.8 | 5326.1 | 8643.4 | 10251.7 | 7113.2 |
| 70° | 635.1 | 643.9 | 647.8 | 647.8 | 676.1 | 790.5 | 2273.7 | 5924.1 | 8086.4 | 5577.3 |
| 72.5° | 578.4 | 559.9 | 561.8 | 552.1 | 552.1 | 601.9 | 915.5 | 3358.3 | 5094.6 | 3137.5 |
| 75° | 471.9 | 483.7 | 485.6 | 478.8 | 456.3 | 459.2 | 543.3 | 1409.0 | 2179.9 | 1301.5 |
| 77.5° | 407.4 | 407.4 | 411.4 | 406.5 | 388.9 | 343.9 | 362.5 | 546.2 | 741.6 | 533.5 |
| 80° | 327.3 | 326.3 | 343.0 | 352.7 | 325.4 | 254.0 | 231.6 | 301.9 | 329.3 | 234.5 |
| 82.5° | 159.3 | 169.0 | 235.5 | 268.7 | 247.2 | 183.7 | 141.7 | 187.6 | 175.9 | 103.6 |
| 85° | 92.8 | 87.9 | 105.5 | 149.5 | 141.7 | 101.6 | 68.4 | 97.7 | 91.8 | 52.8 |
| 87.5° | 29.3 | 27.4 | 21.5 | 50.8 | 41.0 | 28.3 | 18.6 | 28.3 | 25.4 | 11.7 |
| 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):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4736.0 | 0° | 4736.0 | 4736.0 | 4736.0 | 4736.0 | 4736.0 | 4736.0 | 4736.0 | 4736.0 | 4736.0 | 4736.0 |
| 4751.6 | 2.5° | 4682.2 | 4566.9 | 4452.6 | 4348.1 | 4284.6 | 4243.5 | 4202.5 | 4156.6 | 4139.0 | 4112.6 |
| 4764.3 | 5° | 4635.3 | 4412.6 | 4214.2 | 4043.2 | 3887.9 | 3765.7 | 3642.6 | 3542.9 | 3498.0 | 3528.3 |
| 4804.4 | 7.5° | 4608.0 | 4285.5 | 3979.7 | 3666.1 | 3364.1 | 3122.8 | 2912.7 | 2765.2 | 2698.7 | 2715.3 |
| 4843.5 | 10° | 4583.6 | 4141.9 | 3675.8 | 3180.4 | 2746.6 | 2447.6 | 2232.7 | 2120.3 | 2078.3 | 2087.1 |
| 4896.2 | 12.5° | 4561.1 | 3980.7 | 3309.4 | 2657.7 | 2196.5 | 1999.1 | 1937.6 | 1938.6 | 1946.4 | 1952.2 |
| 4980.3 | 15° | 4557.2 | 3786.2 | 2900.0 | 2200.4 | 1899.5 | 1886.8 | 1953.2 | 1995.2 | 2017.7 | 2024.5 |
| 5050.6 | 17.5° | 4551.3 | 3553.7 | 2482.8 | 1888.7 | 1827.2 | 1913.2 | 1974.7 | 2002.1 | 2019.7 | 2020.6 |
| 5119.0 | 20° | 4527.9 | 3258.6 | 2097.8 | 1740.2 | 1811.5 | 1885.8 | 1923.9 | 1945.4 | 1960.1 | 1964.9 |
| 5170.8 | 22.5° | 4455.6 | 2930.3 | 1797.9 | 1673.8 | 1749.0 | 1808.6 | 1853.5 | 1878.0 | 1886.8 | 1892.6 |
| 5180.6 | 25° | 4325.6 | 2562.9 | 1590.7 | 1610.3 | 1662.0 | 1737.3 | 1773.4 | 1778.3 | 1775.4 | 1784.2 |
| 5156.1 | 27.5° | 4155.6 | 2169.1 | 1461.7 | 1524.3 | 1590.7 | 1655.2 | 1674.7 | 1671.8 | 1665.9 | 1675.7 |
| 5114.1 | 30° | 3950.4 | 1815.4 | 1379.7 | 1427.5 | 1518.4 | 1577.0 | 1594.6 | 1587.8 | 1576.1 | 1586.8 |
| 5092.6 | 32.5° | 3733.5 | 1526.2 | 1312.2 | 1360.1 | 1458.8 | 1516.5 | 1534.0 | 1527.2 | 1518.4 | 1527.2 |
| 5117.0 | 35° | 3531.2 | 1324.0 | 1249.7 | 1315.2 | 1411.9 | 1468.6 | 1491.0 | 1492.0 | 1492.0 | 1502.8 |
| 5181.5 | 37.5° | 3345.6 | 1205.7 | 1197.9 | 1286.8 | 1379.7 | 1430.5 | 1462.7 | 1464.7 | 1422.6 | 1425.6 |
| 5291.0 | 40° | 3173.6 | 1155.9 | 1174.5 | 1268.3 | 1348.4 | 1397.2 | 1399.2 | 1289.8 | 1212.6 | 1210.6 |
| 5416.0 | 42.5° | 3032.9 | 1146.1 | 1181.3 | 1266.3 | 1325.9 | 1327.9 | 1190.1 | 1105.1 | 1083.6 | 1084.6 |
| 5531.3 | 45° | 2901.0 | 1143.2 | 1196.9 | 1266.3 | 1292.7 | 1147.1 | 1054.3 | 1031.8 | 1033.8 | 1041.6 |
| 5583.1 | 47.5° | 2753.5 | 1131.5 | 1199.9 | 1248.7 | 1196.9 | 1020.1 | 992.7 | 983.0 | 979.0 | 981.0 |
| 5571.4 | 50° | 2592.2 | 1089.5 | 1162.7 | 1213.6 | 1032.8 | 965.4 | 931.2 | 928.2 | 933.1 | 936.1 |
| 5505.9 | 52.5° | 2422.2 | 1021.1 | 1099.2 | 1150.0 | 957.6 | 917.5 | 879.4 | 886.2 | 907.7 | 914.6 |
| 5437.5 | 55° | 2310.8 | 940.9 | 1015.2 | 1023.0 | 904.8 | 872.5 | 840.3 | 855.9 | 896.0 | 908.7 |
| 5396.5 | 57.5° | 2281.5 | 855.9 | 919.4 | 910.7 | 837.4 | 833.5 | 813.9 | 827.6 | 878.4 | 897.0 |
| 5394.5 | 60° | 2272.7 | 779.7 | 825.6 | 818.8 | 771.9 | 790.5 | 785.6 | 792.4 | 810.0 | 815.9 |
| 5375.0 | 62.5° | 2204.3 | 719.1 | 741.6 | 731.8 | 713.3 | 745.5 | 757.2 | 742.6 | 756.3 | 763.1 |
| 5241.1 | 65° | 2030.4 | 670.3 | 659.5 | 652.7 | 660.5 | 689.8 | 713.3 | 684.0 | 696.7 | 716.2 |
| 4725.2 | 67.5° | 1743.1 | 603.8 | 574.5 | 582.3 | 606.8 | 622.4 | 652.7 | 619.5 | 630.2 | 663.4 |
| 3805.8 | 70° | 1409.9 | 519.8 | 493.4 | 515.9 | 539.4 | 571.6 | 576.5 | 554.0 | 579.4 | 616.5 |
| 2322.6 | 72.5° | 997.6 | 434.8 | 416.2 | 462.2 | 470.0 | 512.0 | 501.2 | 490.5 | 525.7 | 538.4 |
| 1148.1 | 75° | 691.8 | 350.8 | 340.0 | 375.2 | 403.5 | 439.7 | 431.9 | 444.6 | 518.8 | 524.7 |
| 573.6 | 77.5° | 437.7 | 272.6 | 265.8 | 288.2 | 327.3 | 367.4 | 380.1 | 524.7 | 886.2 | 921.4 |
| 298.0 | 80° | 254.0 | 203.2 | 195.4 | 213.0 | 247.2 | 284.3 | 366.4 | 643.9 | 584.3 | 577.5 |
| 133.9 | 82.5° | 141.7 | 139.7 | 130.0 | 134.8 | 165.1 | 205.2 | 517.9 | 453.4 | 368.4 | 380.1 |
| 53.7 | 85° | 66.4 | 82.1 | 70.4 | 67.4 | 92.8 | 240.4 | 345.9 | 258.9 | 172.0 | 168.1 |
| 11.7 | 87.5° | 17.6 | 15.6 | 15.6 | 17.6 | 39.1 | 207.1 | 137.8 | 110.4 | 65.5 | 63.5 |
| 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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