

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: P943014

Luminaire Tested: **GALN-SB7B-750-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-750-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30938 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

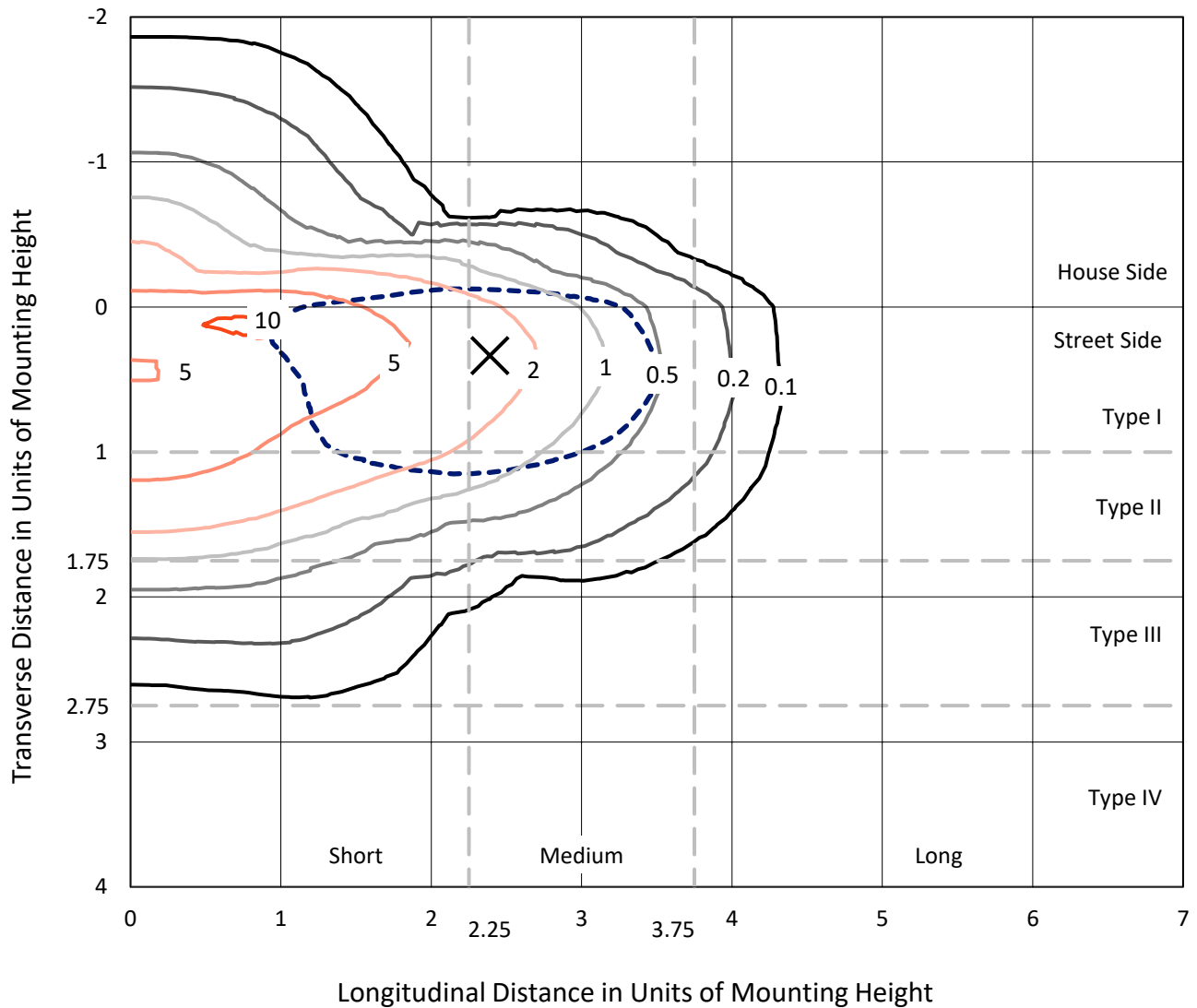
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

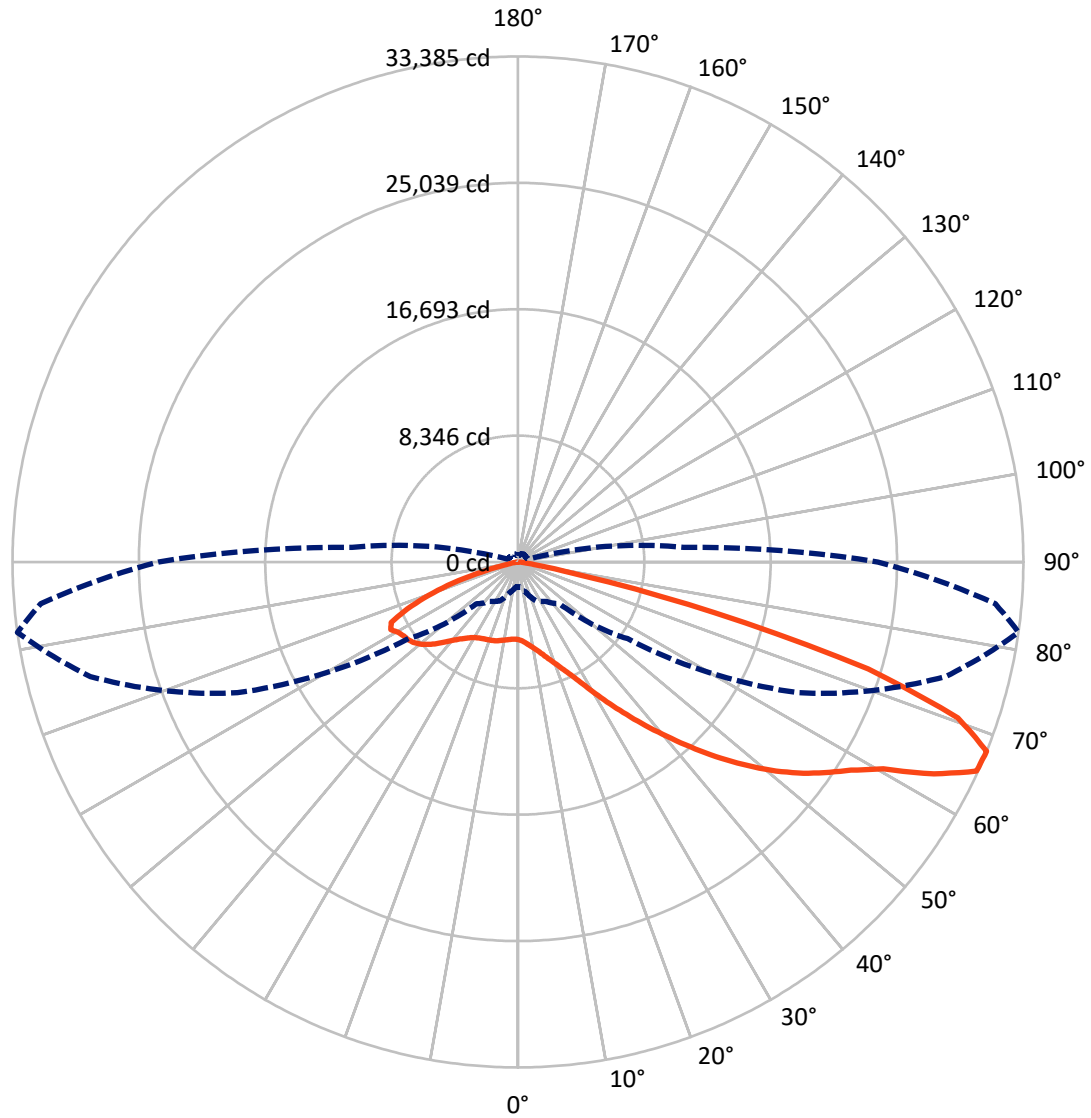
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5604.1 | 0.0 | 5604.1 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 25333.8 | 0.0 | 25333.8 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 30938.0 | 0.0 | 30938.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 456.6 | 1.5 |
| 10°-20° | 1186.6 | 3.8 |
| 20°-30° | 1900.6 | 6.1 |
| 30°-40° | 3360.8 | 10.9 |
| 40°-50° | 5888.4 | 19.0 |
| 50°-60° | 7853.5 | 25.4 |
| 60°-70° | 7311.2 | 23.6 |
| 70°-80° | 2806.0 | 9.1 |
| 80°-90° | 174.3 | 0.6 |
| 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° | 30938.0 | 100.0 |
| 0°-180° | 30938.0 | 100.0 |

Coefficient of Utilization



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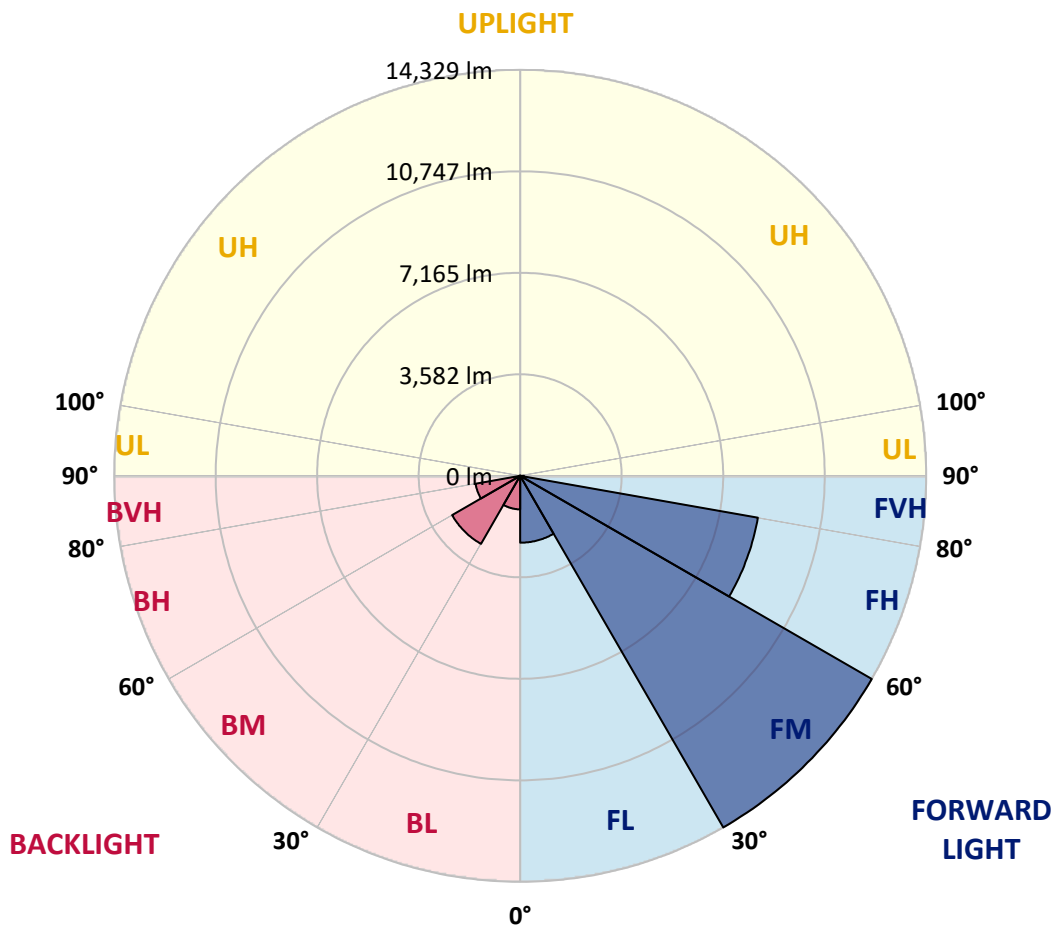
CATALOG NUMBER: GALN-SB7B-750-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2360.2 | 7.6 | | | |
| FM (30°-60°) | 14329.2 | 46.3 | | | |
| FH (60°-80°) | 8517.7 | 27.5 | | | G4/12000 |
| FVH (80°-90°) | 126.7 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1183.6 | 3.8 | B3/2500 | | |
| BM (30°-60°) | 2773.5 | 9.0 | B3/5000 | | |
| BH (60°-80°) | 1599.5 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 47.6 | 0.2 | | | G1/100 |
| 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° | 82° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5125.4 | 5125.4 | 5125.4 | 5125.4 | 5125.4 | 5125.4 | 5125.4 | 5125.4 | 5125.4 | 5125.4 |
| 2.5° | 5417.2 | 5448.4 | 5430.5 | 5421.6 | 5406.0 | 5383.8 | 5365.9 | 5310.3 | 5252.3 | 5214.5 |
| 5° | 5526.3 | 5557.5 | 5555.3 | 5564.2 | 5575.3 | 5582.0 | 5577.6 | 5515.2 | 5432.8 | 5368.2 |
| 7.5° | 5432.8 | 5468.4 | 5497.4 | 5541.9 | 5619.9 | 5702.3 | 5742.4 | 5729.0 | 5644.4 | 5555.3 |
| 10° | 5167.7 | 5205.6 | 5274.6 | 5379.3 | 5544.1 | 5722.3 | 5871.6 | 5940.6 | 5887.2 | 5789.2 |
| 12.5° | 4682.1 | 4720.0 | 4855.9 | 5083.1 | 5359.3 | 5668.9 | 5954.0 | 6138.9 | 6152.2 | 6054.2 |
| 15° | 4136.4 | 4174.3 | 4319.0 | 4604.2 | 5025.1 | 5521.9 | 5998.5 | 6348.3 | 6466.3 | 6381.7 |
| 17.5° | 3797.8 | 3831.2 | 3940.4 | 4169.8 | 4608.6 | 5227.8 | 5983.0 | 6571.0 | 6840.5 | 6773.7 |
| 20° | 3695.4 | 3724.3 | 3775.5 | 3935.9 | 4301.2 | 4922.7 | 5880.5 | 6780.4 | 7243.7 | 7205.8 |
| 22.5° | 3804.5 | 3831.2 | 3846.8 | 3918.1 | 4147.5 | 4722.2 | 5751.3 | 6994.2 | 7711.5 | 7715.9 |
| 25° | 4056.2 | 4082.9 | 4065.1 | 4109.7 | 4209.9 | 4659.8 | 5702.3 | 7245.9 | 8299.5 | 8348.5 |
| 27.5° | 4470.5 | 4472.7 | 4430.4 | 4428.2 | 4443.8 | 4753.4 | 5753.5 | 7515.4 | 9041.2 | 9132.6 |
| 30° | 5301.3 | 5267.9 | 5105.3 | 4929.4 | 4849.2 | 5034.1 | 5896.1 | 7834.0 | 9916.6 | 10079.2 |
| 32.5° | 6582.1 | 6533.1 | 6234.7 | 5813.7 | 5390.4 | 5486.2 | 6152.2 | 8197.0 | 10870.0 | 11164.0 |
| 35° | 7972.1 | 7958.7 | 7646.9 | 7020.9 | 6281.4 | 6130.0 | 6568.8 | 8673.7 | 11910.2 | 12378.0 |
| 37.5° | 9264.0 | 9257.3 | 9079.1 | 8341.8 | 7441.9 | 7027.6 | 7237.0 | 9297.4 | 13023.9 | 13701.1 |
| 40° | 10444.5 | 10464.6 | 10286.4 | 9627.1 | 8720.5 | 8179.2 | 8145.8 | 10068.1 | 14262.4 | 15142.3 |
| 42.5° | 11464.7 | 11487.0 | 11306.6 | 10818.8 | 9983.5 | 9453.3 | 9261.8 | 11012.5 | 15471.9 | 16690.3 |
| 45° | 12157.5 | 12295.6 | 12268.8 | 11879.0 | 11279.8 | 10729.7 | 10602.7 | 12197.6 | 16850.7 | 18332.0 |
| 47.5° | 12353.5 | 12480.4 | 12680.9 | 12734.4 | 12369.1 | 11827.8 | 11979.3 | 13625.4 | 18245.1 | 19975.8 |
| 50° | 11870.1 | 11988.2 | 12404.7 | 12959.3 | 13213.3 | 13046.2 | 13318.0 | 15155.6 | 19672.9 | 21615.2 |
| 52.5° | 10916.8 | 11037.1 | 11562.7 | 12440.3 | 13476.1 | 14001.8 | 14661.1 | 16663.6 | 21056.2 | 23167.8 |
| 55° | 9538.0 | 9664.9 | 10339.9 | 11333.3 | 12974.9 | 14396.1 | 15781.5 | 18169.4 | 22323.6 | 24564.4 |
| 57.5° | 7662.5 | 7756.0 | 8457.7 | 9847.6 | 11714.2 | 14004.0 | 16607.9 | 19813.2 | 23517.5 | 25936.5 |
| 60° | 4994.0 | 5076.4 | 5891.6 | 7441.9 | 9624.8 | 12694.3 | 16772.8 | 21646.4 | 25103.4 | 27720.7 |
| 62.5° | 3321.1 | 3376.8 | 3860.2 | 4998.4 | 6778.2 | 10179.5 | 15808.3 | 23109.9 | 27428.9 | 30825.8 |
| 65° | 2278.7 | 2334.4 | 2817.7 | 3610.7 | 4379.2 | 6733.6 | 13035.1 | 22916.1 | 29536.1 | 33291.6 |
| 67.5° | 1626.0 | 1672.8 | 2082.7 | 2831.1 | 3169.7 | 3911.4 | 8836.3 | 20439.1 | 29233.2 | 33385.1 |
| 70° | 1165.0 | 1191.7 | 1530.3 | 2205.2 | 2519.3 | 2350.0 | 4913.8 | 15632.3 | 25595.7 | 30828.0 |
| 72.5° | 815.2 | 824.2 | 1062.5 | 1679.5 | 2029.2 | 1715.1 | 2338.8 | 10422.3 | 19358.8 | 24196.9 |
| 75° | 552.4 | 563.5 | 715.0 | 1231.8 | 1628.3 | 1309.7 | 1238.5 | 5588.7 | 11364.5 | 13393.7 |
| 77.5° | 338.6 | 343.0 | 461.1 | 842.0 | 1218.4 | 997.9 | 797.4 | 2367.8 | 4397.0 | 4316.8 |
| 80° | 191.6 | 191.6 | 294.0 | 523.5 | 830.8 | 643.7 | 559.1 | 1006.8 | 1392.2 | 1222.9 |
| 82.5° | 106.9 | 109.1 | 213.8 | 325.2 | 550.2 | 380.9 | 307.4 | 465.5 | 601.4 | 532.4 |
| 85° | 44.5 | 49.0 | 131.4 | 153.7 | 262.8 | 189.3 | 124.7 | 196.0 | 222.7 | 198.2 |
| 87.5° | 4.5 | 6.7 | 40.1 | 29.0 | 31.2 | 37.9 | 17.8 | 37.9 | 31.2 | 31.2 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5125.4 | 0° | 5125.4 | 5125.4 | 5125.4 | 5125.4 | 5125.4 | 5125.4 | 5125.4 | 5125.4 | 5125.4 | 5125.4 |
| 5201.1 | 2.5° | 5158.8 | 5125.4 | 5040.7 | 4942.7 | 4813.5 | 4751.2 | 4666.5 | 4608.6 | 4559.6 | 4564.1 |
| 5330.3 | 5° | 5259.0 | 5174.4 | 4985.0 | 4748.9 | 4454.9 | 4245.5 | 4022.8 | 3869.1 | 3744.4 | 3717.6 |
| 5508.5 | 7.5° | 5397.1 | 5263.5 | 4931.6 | 4506.1 | 4009.4 | 3633.0 | 3296.6 | 3080.6 | 2926.9 | 2877.9 |
| 5724.6 | 10° | 5575.3 | 5381.5 | 4862.5 | 4201.0 | 3486.0 | 3007.1 | 2646.2 | 2476.9 | 2372.2 | 2336.6 |
| 5978.5 | 12.5° | 5782.5 | 5517.4 | 4771.2 | 3829.0 | 2946.9 | 2485.8 | 2256.4 | 2171.8 | 2138.4 | 2127.2 |
| 6290.3 | 15° | 6043.1 | 5686.7 | 4633.1 | 3388.0 | 2490.3 | 2167.3 | 2069.3 | 2058.2 | 2062.6 | 2058.2 |
| 6664.6 | 17.5° | 6352.7 | 5871.6 | 4408.1 | 2933.6 | 2182.9 | 2004.7 | 1969.1 | 1978.0 | 1989.1 | 1986.9 |
| 7083.3 | 20° | 6691.3 | 6054.2 | 4120.8 | 2530.4 | 1973.5 | 1888.9 | 1868.8 | 1877.7 | 1886.7 | 1882.2 |
| 7566.7 | 22.5° | 7076.6 | 6250.2 | 3802.3 | 2216.3 | 1833.2 | 1782.0 | 1759.7 | 1761.9 | 1761.9 | 1753.0 |
| 8179.2 | 25° | 7537.7 | 6466.3 | 3468.2 | 1993.6 | 1726.3 | 1686.2 | 1659.5 | 1650.5 | 1637.2 | 1610.5 |
| 8923.2 | 27.5° | 8087.9 | 6695.7 | 3147.4 | 1837.7 | 1641.6 | 1603.8 | 1572.6 | 1550.3 | 1516.9 | 1472.3 |
| 9816.4 | 30° | 8707.1 | 6974.2 | 2875.6 | 1739.6 | 1574.8 | 1536.9 | 1501.3 | 1467.9 | 1418.9 | 1363.2 |
| 10843.3 | 32.5° | 9435.5 | 7272.6 | 2677.4 | 1675.0 | 1514.7 | 1474.6 | 1432.3 | 1392.2 | 1338.7 | 1283.0 |
| 11997.1 | 35° | 10304.2 | 7633.5 | 2561.6 | 1630.5 | 1467.9 | 1414.4 | 1367.7 | 1323.1 | 1283.0 | 1234.0 |
| 13251.1 | 37.5° | 11246.4 | 8016.6 | 2525.9 | 1608.2 | 1436.7 | 1354.3 | 1300.8 | 1269.7 | 1265.2 | 1236.2 |
| 14607.7 | 40° | 12277.7 | 8471.0 | 2552.7 | 1594.9 | 1403.3 | 1296.4 | 1238.5 | 1231.8 | 1242.9 | 1191.7 |
| 16057.7 | 42.5° | 13369.2 | 9010.1 | 2597.2 | 1579.3 | 1356.5 | 1238.5 | 1182.8 | 1182.8 | 1173.9 | 1102.6 |
| 17590.2 | 45° | 14549.8 | 9631.5 | 2641.8 | 1541.4 | 1300.8 | 1180.6 | 1138.2 | 1122.6 | 1084.8 | 1015.7 |
| 19131.6 | 47.5° | 15739.2 | 10264.1 | 2675.2 | 1472.3 | 1234.0 | 1131.5 | 1093.7 | 1058.0 | 1002.4 | 940.0 |
| 20644.1 | 50° | 16868.5 | 10832.1 | 2639.5 | 1369.9 | 1158.3 | 1084.8 | 1044.7 | 995.7 | 935.5 | 893.2 |
| 22076.3 | 52.5° | 17877.6 | 11324.4 | 2488.1 | 1249.6 | 1078.1 | 1035.8 | 1000.1 | 948.9 | 899.9 | 855.3 |
| 23368.3 | 55° | 18755.2 | 11723.1 | 2220.8 | 1136.0 | 1006.8 | 993.4 | 957.8 | 893.2 | 826.4 | 788.5 |
| 24649.0 | 57.5° | 19597.2 | 12026.0 | 1886.7 | 1042.5 | 942.2 | 946.7 | 893.2 | 835.3 | 772.9 | 732.8 |
| 26375.3 | 60° | 20717.6 | 12431.4 | 1548.1 | 955.6 | 873.2 | 886.5 | 828.6 | 786.3 | 708.3 | 657.1 |
| 29335.6 | 62.5° | 22508.5 | 13061.8 | 1229.6 | 848.7 | 793.0 | 797.4 | 772.9 | 721.7 | 628.1 | 568.0 |
| 31529.7 | 65° | 23929.6 | 12830.2 | 968.9 | 732.8 | 701.6 | 708.3 | 708.3 | 652.6 | 552.4 | 483.4 |
| 31647.7 | 67.5° | 23769.2 | 10985.8 | 772.9 | 619.2 | 614.8 | 619.2 | 634.8 | 588.0 | 490.0 | 434.4 |
| 29237.6 | 70° | 21895.9 | 8738.3 | 619.2 | 514.5 | 534.6 | 523.5 | 568.0 | 536.8 | 441.0 | 385.4 |
| 22666.6 | 72.5° | 17866.4 | 6294.8 | 472.2 | 425.4 | 409.9 | 427.7 | 512.3 | 483.4 | 367.5 | 305.2 |
| 12006.0 | 75° | 10440.1 | 3359.0 | 351.9 | 336.3 | 296.3 | 356.4 | 454.4 | 412.1 | 280.7 | 225.0 |
| 3679.8 | 77.5° | 3399.1 | 1171.6 | 258.4 | 247.2 | 220.5 | 287.3 | 387.6 | 347.5 | 229.4 | 178.2 |
| 1078.1 | 80° | 911.0 | 354.2 | 176.0 | 162.6 | 142.6 | 213.8 | 307.4 | 276.2 | 164.8 | 115.8 |
| 463.3 | 82.5° | 365.3 | 149.2 | 102.5 | 91.3 | 78.0 | 147.0 | 242.8 | 222.7 | 122.5 | 73.5 |
| 144.8 | 85° | 118.1 | 49.0 | 37.9 | 29.0 | 35.6 | 91.3 | 144.8 | 151.5 | 86.9 | 37.9 |
| 22.3 | 87.5° | 15.6 | 6.7 | 6.7 | 8.9 | 6.7 | 15.6 | 44.5 | 42.3 | 24.5 | 4.5 |
| 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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| <u>180°</u> |
|-------------|
| 5125.4 |
| 4519.5 |
| 3657.5 |
| 2828.9 |
| 2309.9 |
| 2120.5 |
| 2055.9 |
| 1982.4 |
| 1880.0 |
| 1748.6 |
| 1606.0 |
| 1467.9 |
| 1358.7 |
| 1285.2 |
| 1229.6 |
| 1234.0 |
| 1193.9 |
| 1102.6 |
| 1013.5 |
| 937.8 |
| 886.5 |
| 850.9 |
| 784.1 |
| 728.4 |
| 650.4 |
| 563.5 |
| 476.7 |
| 425.4 |
| 378.7 |
| 298.5 |
| 218.3 |
| 171.5 |
| 113.6 |
| 73.5 |
| 29.0 |
| 0.0 |
| 0.0 |

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