

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: P955417

Luminaire Tested: **GALN-SB8B-850-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955417
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-SB8B-850-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44295 lumens
Efficiency: N/A
Efficacy: 151.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

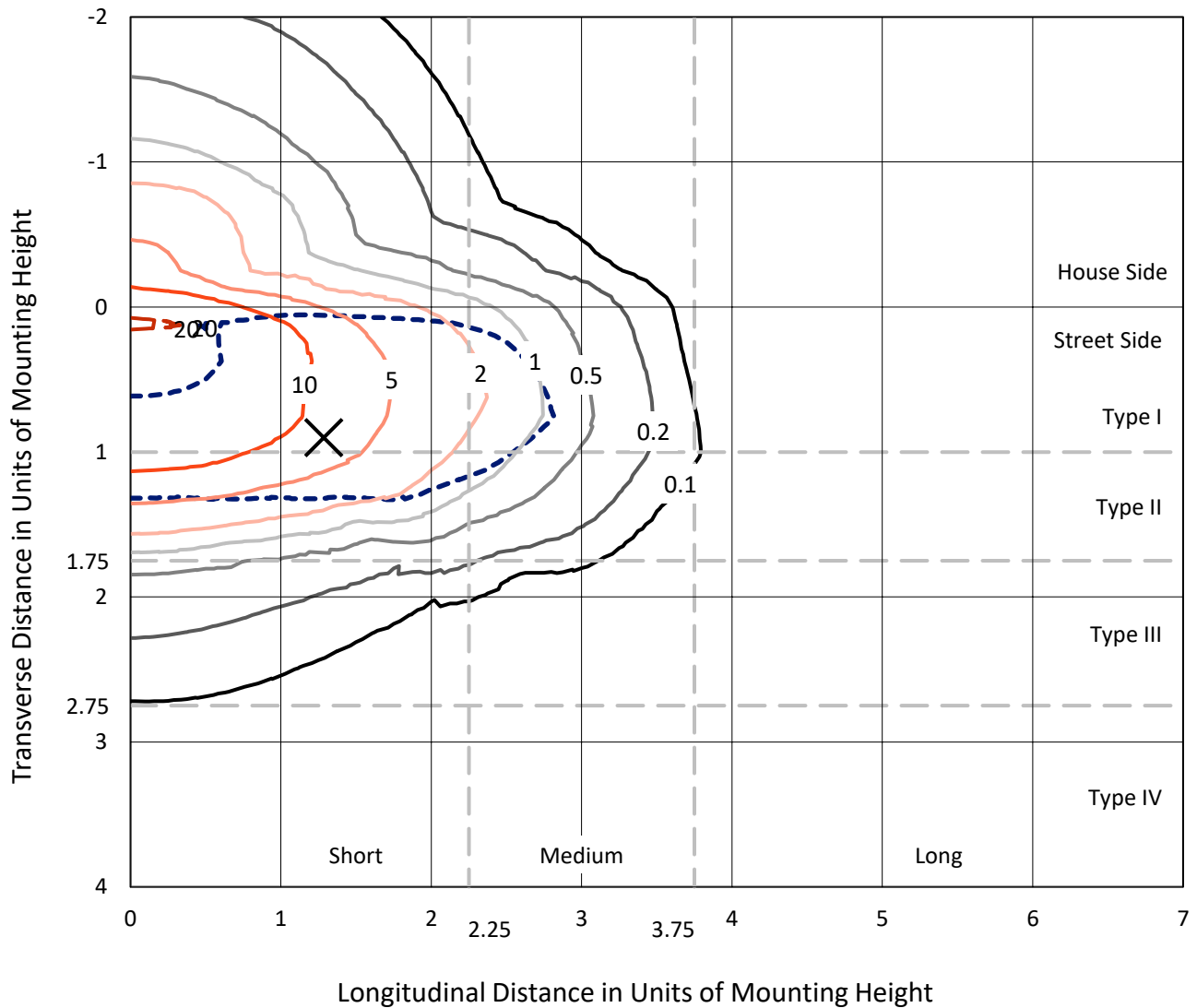
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

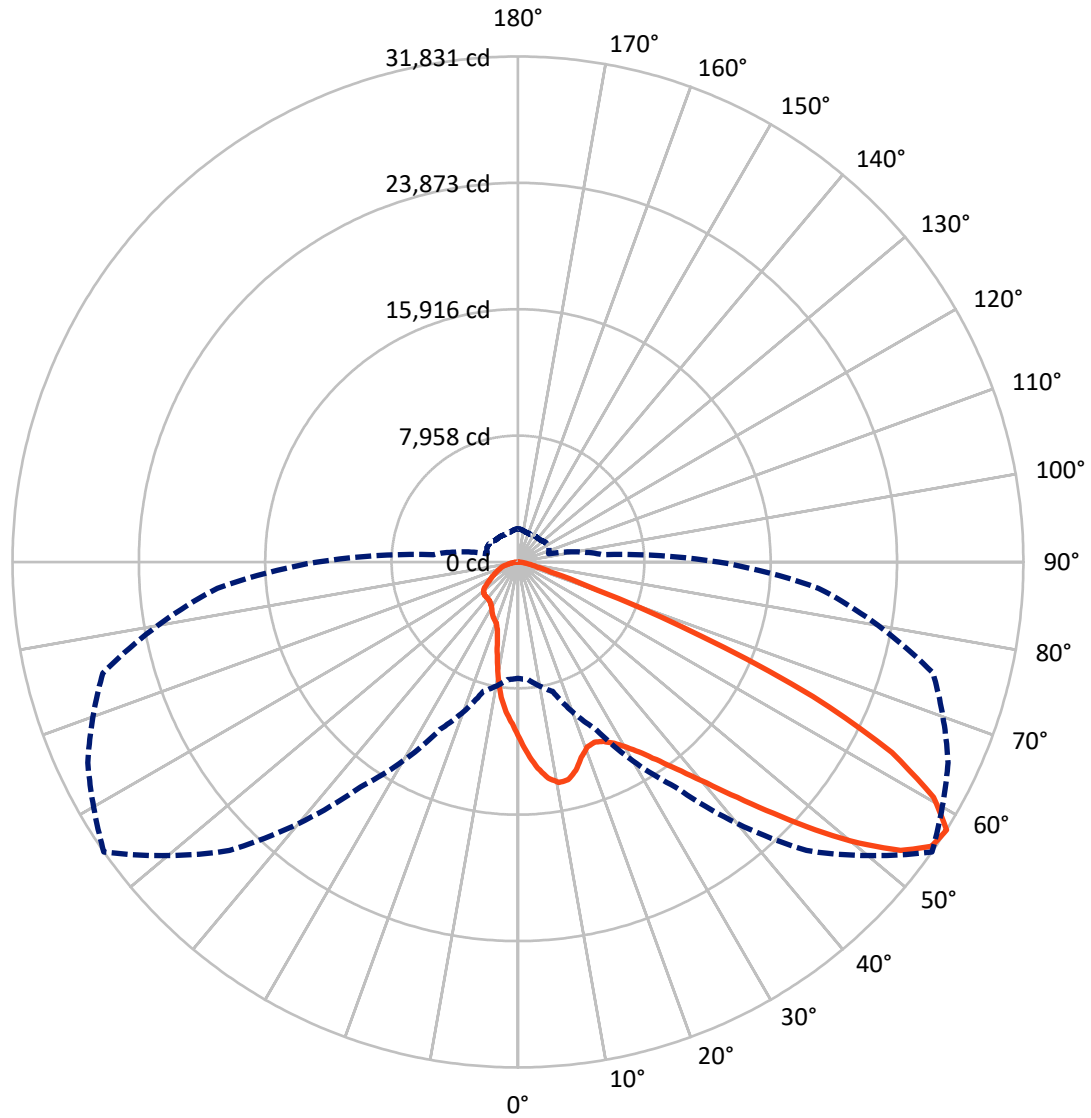
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 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 | 8015.0 | 0.0 | 8015.0 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 36280.0 | 0.0 | 36280.0 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 44295.0 | 0.0 | 44295.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1029.9 | 2.3 |
| 10°-20° | 2599.5 | 5.9 |
| 20°-30° | 4148.1 | 9.4 |
| 30°-40° | 6567.5 | 14.8 |
| 40°-50° | 10052.3 | 22.7 |
| 50°-60° | 10766.9 | 24.3 |
| 60°-70° | 6773.5 | 15.3 |
| 70°-80° | 2003.1 | 4.5 |
| 80°-90° | 354.2 | 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° | 44295.0 | 100.0 |
| 0°-180° | 44295.0 | 100.0 |

Coefficient of Utilization



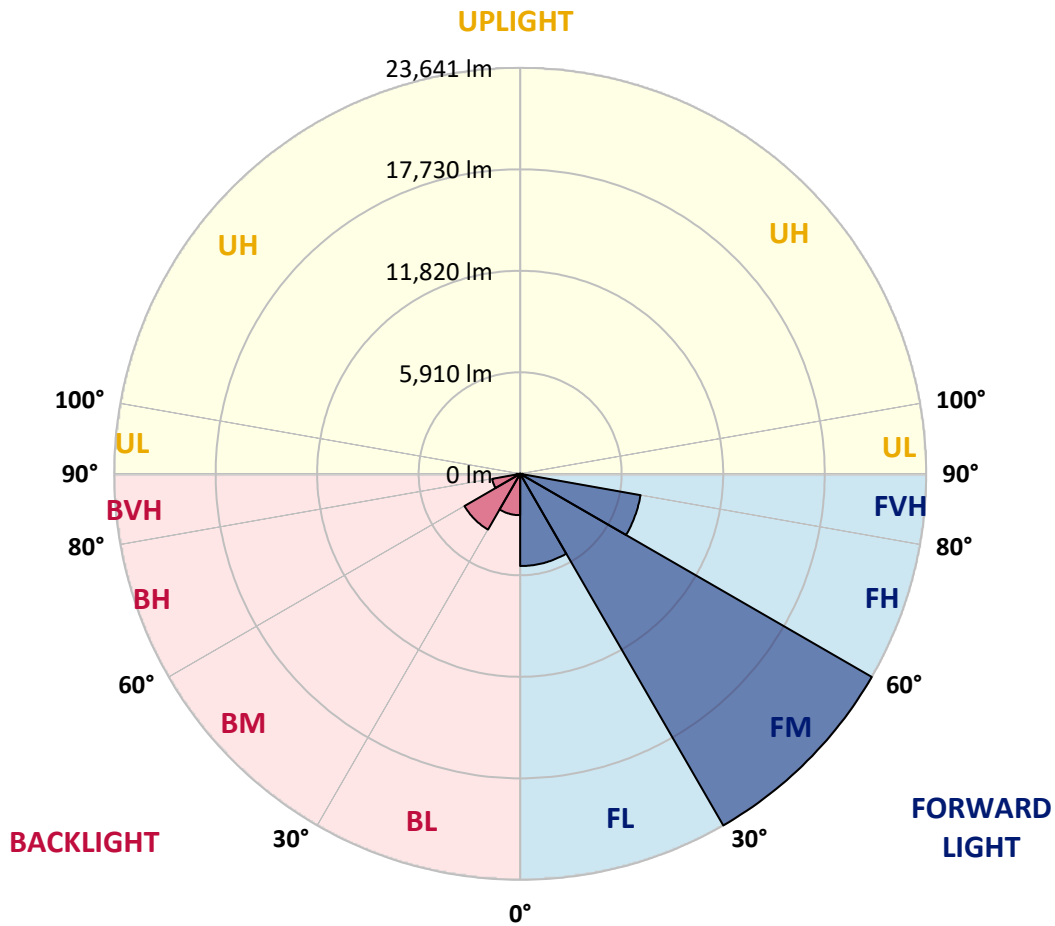
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5368.6 | 12.1 | | | |
| FM (30°-60°) | 23640.6 | 53.4 | | | |
| FH (60°-80°) | 7121.3 | 16.1 | | | G3/7500 |
| FVH (80°-90°) | 149.6 | 0.3 | | | G2/225 |
| BL (0°-30°) | 2409.0 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 3746.1 | 8.5 | B3/5000 | | |
| BH (60°-80°) | 1655.3 | 3.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 204.5 | 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 Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11098.9 | 11098.9 | 11098.9 | 11098.9 | 11098.9 | 11098.9 | 11098.9 | 11098.9 | 11098.9 | 11098.9 |
| 2.5° | 12733.8 | 12724.7 | 12775.1 | 12603.3 | 12486.5 | 12328.5 | 12120.2 | 11854.5 | 11568.3 | 11266.0 |
| 5° | 13881.1 | 13800.9 | 13853.6 | 13725.3 | 13597.1 | 13359.0 | 13049.8 | 12617.1 | 12088.1 | 11485.9 |
| 7.5° | 13700.2 | 13645.2 | 13780.3 | 13894.8 | 13991.0 | 13961.2 | 13734.5 | 13281.1 | 12598.7 | 11724.0 |
| 10° | 12241.5 | 12179.7 | 12369.8 | 12765.9 | 13347.5 | 13853.6 | 14128.4 | 13846.7 | 13120.8 | 11985.1 |
| 12.5° | 10954.6 | 10924.9 | 11050.8 | 11371.4 | 12017.1 | 12988.0 | 14078.0 | 14341.3 | 13663.5 | 12294.2 |
| 15° | 10405.1 | 10368.4 | 10448.6 | 10611.2 | 11023.3 | 11927.8 | 13620.0 | 14680.2 | 14197.1 | 12651.4 |
| 17.5° | 10283.7 | 10242.5 | 10276.8 | 10361.6 | 10627.2 | 11316.4 | 12928.5 | 14847.4 | 14753.5 | 13049.8 |
| 20° | 10508.1 | 10473.8 | 10478.3 | 10473.8 | 10659.2 | 11206.5 | 12447.6 | 14783.3 | 15238.9 | 13416.2 |
| 22.5° | 11050.8 | 10993.6 | 10995.8 | 10874.5 | 10975.2 | 11398.9 | 12321.7 | 14611.5 | 15671.7 | 13736.8 |
| 25° | 11934.7 | 11831.6 | 11852.2 | 11543.1 | 11515.6 | 11829.4 | 12518.6 | 14478.7 | 16102.2 | 13993.3 |
| 27.5° | 13143.7 | 13026.9 | 12965.1 | 12504.9 | 12285.0 | 12440.7 | 12919.3 | 14524.5 | 16509.8 | 14215.4 |
| 30° | 14655.0 | 14513.1 | 14387.1 | 13734.5 | 13336.1 | 13278.8 | 13542.2 | 14826.8 | 16990.7 | 14448.9 |
| 32.5° | 16507.5 | 16342.6 | 16113.7 | 15248.1 | 14687.1 | 14387.1 | 14348.2 | 15364.9 | 17554.0 | 14746.6 |
| 35° | 18712.6 | 18497.4 | 18172.2 | 17052.5 | 16342.6 | 15729.0 | 15410.7 | 16141.1 | 18325.6 | 15195.4 |
| 37.5° | 20984.2 | 20741.4 | 20443.8 | 19111.1 | 18238.6 | 17334.1 | 16706.7 | 17194.5 | 19353.8 | 15804.5 |
| 40° | 23079.4 | 22806.9 | 22529.8 | 21343.7 | 20407.1 | 19317.2 | 18293.6 | 18527.2 | 20610.9 | 16532.7 |
| 42.5° | 24315.9 | 24114.4 | 24009.0 | 23367.9 | 22644.3 | 21538.3 | 20267.4 | 20107.1 | 22023.8 | 17370.8 |
| 45° | 24260.9 | 24178.5 | 24503.7 | 24769.3 | 24597.5 | 23983.9 | 22580.2 | 21854.3 | 23441.2 | 18096.7 |
| 47.5° | 22964.9 | 23019.8 | 23745.7 | 25238.7 | 25895.9 | 26216.5 | 25213.5 | 23569.4 | 24673.1 | 18639.4 |
| 50° | 19438.5 | 19484.3 | 21165.1 | 24384.6 | 26230.2 | 28036.9 | 27826.2 | 25243.3 | 25628.0 | 18971.4 |
| 52.5° | 16647.2 | 16677.0 | 17398.3 | 21852.0 | 25126.5 | 28952.8 | 30180.2 | 26821.0 | 26326.4 | 19063.0 |
| 55° | 12539.2 | 12642.2 | 13450.6 | 17144.1 | 22255.0 | 28226.9 | 31613.6 | 28446.8 | 26768.3 | 19072.1 |
| 57.5° | 7325.2 | 7437.4 | 8435.8 | 11637.0 | 17297.5 | 25696.7 | 31831.2 | 29889.4 | 27068.3 | 18998.9 |
| 60° | 3588.2 | 3636.3 | 4071.3 | 6116.2 | 10666.1 | 20821.6 | 30081.7 | 30587.8 | 27235.4 | 18959.9 |
| 62.5° | 2418.1 | 2411.2 | 2429.5 | 3018.0 | 5255.2 | 13377.3 | 26436.3 | 29365.0 | 27146.1 | 18811.1 |
| 65° | 2079.2 | 2054.0 | 1985.3 | 2118.1 | 2722.6 | 6118.5 | 20425.4 | 25715.0 | 26466.1 | 18437.8 |
| 67.5° | 1797.5 | 1799.8 | 1802.1 | 1760.9 | 1944.1 | 2823.4 | 12482.0 | 20256.0 | 24025.1 | 16670.1 |
| 70° | 1488.4 | 1509.0 | 1518.2 | 1518.2 | 1584.6 | 1852.5 | 5328.5 | 13883.3 | 18950.8 | 13070.4 |
| 72.5° | 1355.6 | 1312.1 | 1316.7 | 1293.8 | 1293.8 | 1410.5 | 2145.6 | 7870.2 | 11939.3 | 7352.7 |
| 75° | 1106.0 | 1133.5 | 1138.1 | 1122.0 | 1069.4 | 1076.2 | 1273.2 | 3302.0 | 5108.6 | 3050.1 |
| 77.5° | 954.9 | 954.9 | 964.0 | 952.6 | 911.4 | 806.0 | 849.5 | 1280.0 | 1738.0 | 1250.3 |
| 80° | 767.1 | 764.8 | 803.7 | 826.6 | 762.5 | 595.4 | 542.7 | 707.6 | 771.7 | 549.6 |
| 82.5° | 373.2 | 396.1 | 551.9 | 629.7 | 579.3 | 430.5 | 332.0 | 439.7 | 412.2 | 242.7 |
| 85° | 217.5 | 206.1 | 247.3 | 350.3 | 332.0 | 238.1 | 160.3 | 229.0 | 215.2 | 123.7 |
| 87.5° | 68.7 | 64.1 | 50.4 | 119.1 | 96.2 | 66.4 | 43.5 | 66.4 | 59.5 | 27.5 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 11098.9 | 0° | 11098.9 | 11098.9 | 11098.9 | 11098.9 | 11098.9 | 11098.9 | 11098.9 | 11098.9 | 11098.9 | 11098.9 |
| 11135.5 | 2.5° | 10972.9 | 10702.7 | 10434.8 | 10189.8 | 10041.0 | 9944.8 | 9848.6 | 9741.0 | 9699.8 | 9638.0 |
| 11165.3 | 5° | 10863.0 | 10340.9 | 9876.1 | 9475.4 | 9111.3 | 8825.1 | 8536.6 | 8303.0 | 8197.7 | 8268.6 |
| 11259.2 | 7.5° | 10798.9 | 10043.3 | 9326.5 | 8591.5 | 7883.9 | 7318.4 | 6826.0 | 6480.3 | 6324.6 | 6363.5 |
| 11350.8 | 10° | 10741.7 | 9706.7 | 8614.4 | 7453.5 | 6436.8 | 5736.1 | 5232.3 | 4969.0 | 4870.5 | 4891.1 |
| 11474.4 | 12.5° | 10689.0 | 9328.8 | 7755.7 | 6228.4 | 5147.6 | 4685.0 | 4540.8 | 4543.1 | 4561.4 | 4575.1 |
| 11671.4 | 15° | 10679.8 | 8873.2 | 6796.3 | 5156.7 | 4451.5 | 4421.7 | 4577.4 | 4675.9 | 4728.5 | 4744.6 |
| 11836.2 | 17.5° | 10666.1 | 8328.2 | 5818.5 | 4426.3 | 4282.0 | 4483.5 | 4627.8 | 4691.9 | 4733.1 | 4735.4 |
| 11996.5 | 20° | 10611.2 | 7636.6 | 4916.3 | 4078.2 | 4245.4 | 4419.4 | 4508.7 | 4559.1 | 4593.4 | 4604.9 |
| 12117.9 | 22.5° | 10441.7 | 6867.3 | 4213.3 | 3922.5 | 4098.8 | 4238.5 | 4343.8 | 4401.1 | 4421.7 | 4435.4 |
| 12140.8 | 25° | 10137.2 | 6006.3 | 3727.9 | 3773.7 | 3895.0 | 4071.3 | 4156.1 | 4167.5 | 4160.7 | 4181.3 |
| 12083.5 | 27.5° | 9738.7 | 5083.5 | 3425.6 | 3572.2 | 3727.9 | 3879.0 | 3924.8 | 3917.9 | 3904.2 | 3927.1 |
| 11985.1 | 30° | 9257.9 | 4254.5 | 3233.3 | 3345.5 | 3558.4 | 3695.8 | 3737.0 | 3721.0 | 3693.5 | 3718.7 |
| 11934.7 | 32.5° | 8749.5 | 3576.7 | 3075.3 | 3187.5 | 3418.7 | 3553.8 | 3595.1 | 3579.0 | 3558.4 | 3579.0 |
| 11991.9 | 35° | 8275.5 | 3102.7 | 2928.7 | 3082.1 | 3308.8 | 3441.6 | 3494.3 | 3496.6 | 3496.6 | 3521.8 |
| 12143.1 | 37.5° | 7840.4 | 2825.7 | 2807.4 | 3015.7 | 3233.3 | 3352.3 | 3427.9 | 3432.5 | 3334.0 | 3340.9 |
| 12399.5 | 40° | 7437.4 | 2708.9 | 2752.4 | 2972.2 | 3160.0 | 3274.5 | 3279.1 | 3022.6 | 2841.7 | 2837.1 |
| 12692.6 | 42.5° | 7107.7 | 2686.0 | 2768.4 | 2967.6 | 3107.3 | 3111.9 | 2789.0 | 2589.8 | 2539.4 | 2541.7 |
| 12962.8 | 45° | 6798.6 | 2679.1 | 2805.1 | 2967.6 | 3029.5 | 2688.3 | 2470.7 | 2418.1 | 2422.7 | 2441.0 |
| 13084.2 | 47.5° | 6452.8 | 2651.6 | 2811.9 | 2926.4 | 2805.1 | 2390.6 | 2326.5 | 2303.6 | 2294.4 | 2299.0 |
| 13056.7 | 50° | 6075.0 | 2553.2 | 2724.9 | 2844.0 | 2420.4 | 2262.4 | 2182.2 | 2175.4 | 2186.8 | 2193.7 |
| 12903.3 | 52.5° | 5676.5 | 2392.9 | 2576.1 | 2695.2 | 2244.1 | 2150.2 | 2060.9 | 2076.9 | 2127.3 | 2143.3 |
| 12743.0 | 55° | 5415.5 | 2205.1 | 2379.2 | 2397.5 | 2120.4 | 2044.8 | 1969.3 | 2005.9 | 2099.8 | 2129.6 |
| 12646.8 | 57.5° | 5346.8 | 2005.9 | 2154.7 | 2134.1 | 1962.4 | 1953.2 | 1907.4 | 1939.5 | 2058.6 | 2102.1 |
| 12642.2 | 60° | 5326.2 | 1827.3 | 1934.9 | 1918.9 | 1809.0 | 1852.5 | 1841.0 | 1857.1 | 1898.3 | 1912.0 |
| 12596.4 | 62.5° | 5165.9 | 1685.3 | 1738.0 | 1715.1 | 1671.6 | 1747.2 | 1774.6 | 1740.3 | 1772.3 | 1788.4 |
| 12282.7 | 65° | 4758.3 | 1570.8 | 1545.6 | 1529.6 | 1547.9 | 1616.6 | 1671.6 | 1602.9 | 1632.7 | 1678.5 |
| 11073.7 | 67.5° | 4085.1 | 1415.1 | 1346.4 | 1364.7 | 1422.0 | 1458.6 | 1529.6 | 1451.8 | 1477.0 | 1554.8 |
| 8919.0 | 70° | 3304.2 | 1218.2 | 1156.4 | 1209.0 | 1264.0 | 1339.6 | 1351.0 | 1298.3 | 1357.9 | 1444.9 |
| 5443.0 | 72.5° | 2337.9 | 1019.0 | 975.5 | 1083.1 | 1101.4 | 1199.9 | 1174.7 | 1149.5 | 1231.9 | 1261.7 |
| 2690.6 | 75° | 1621.2 | 822.1 | 796.9 | 879.3 | 945.7 | 1030.4 | 1012.1 | 1041.9 | 1215.9 | 1229.6 |
| 1344.1 | 77.5° | 1025.9 | 638.9 | 622.8 | 675.5 | 767.1 | 861.0 | 890.8 | 1229.6 | 2076.9 | 2159.3 |
| 698.4 | 80° | 595.4 | 476.3 | 458.0 | 499.2 | 579.3 | 666.3 | 858.7 | 1509.0 | 1369.3 | 1353.3 |
| 313.7 | 82.5° | 332.0 | 327.4 | 304.5 | 316.0 | 387.0 | 480.9 | 1213.6 | 1062.5 | 863.3 | 890.8 |
| 125.9 | 85° | 155.7 | 192.3 | 164.9 | 158.0 | 217.5 | 563.3 | 810.6 | 606.8 | 403.0 | 393.9 |
| 27.5 | 87.5° | 41.2 | 36.6 | 36.6 | 41.2 | 91.6 | 485.4 | 322.9 | 258.8 | 153.4 | 148.8 |
| 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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