

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: P950377

Luminaire Tested: **GALN-SB4D-835-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950377
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-SB4D-835-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38472 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

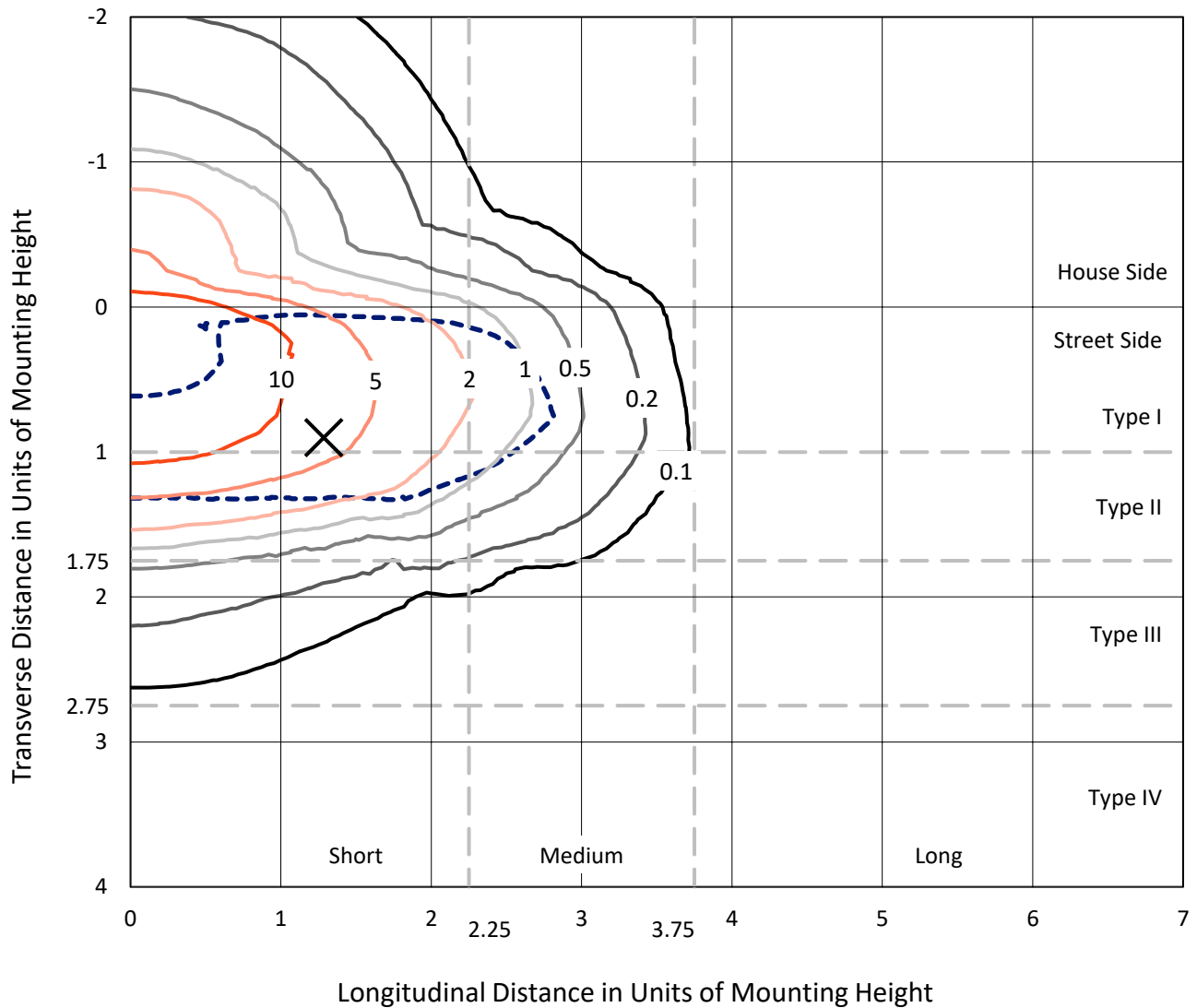
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

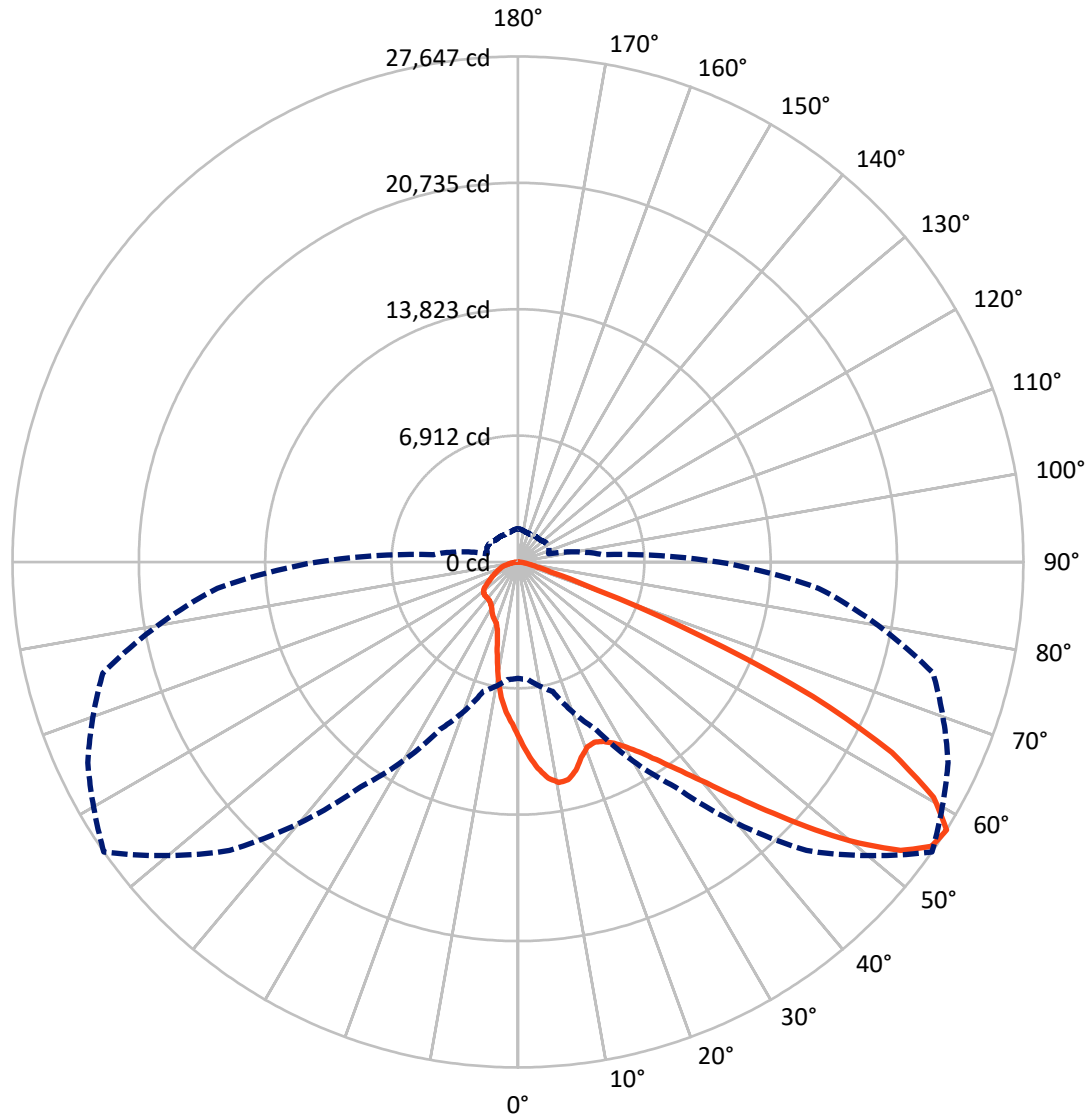
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 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 | 6961.3 | 0.0 | 6961.3 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 31510.7 | 0.0 | 31510.7 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 38472.0 | 0.0 | 38472.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 894.5 | 2.3 |
| 10°-20° | 2257.8 | 5.9 |
| 20°-30° | 3602.8 | 9.4 |
| 30°-40° | 5704.2 | 14.8 |
| 40°-50° | 8730.8 | 22.7 |
| 50°-60° | 9351.5 | 24.3 |
| 60°-70° | 5883.1 | 15.3 |
| 70°-80° | 1739.7 | 4.5 |
| 80°-90° | 307.6 | 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° | 38472.0 | 100.0 |
| 0°-180° | 38472.0 | 100.0 |

Coefficient of Utilization



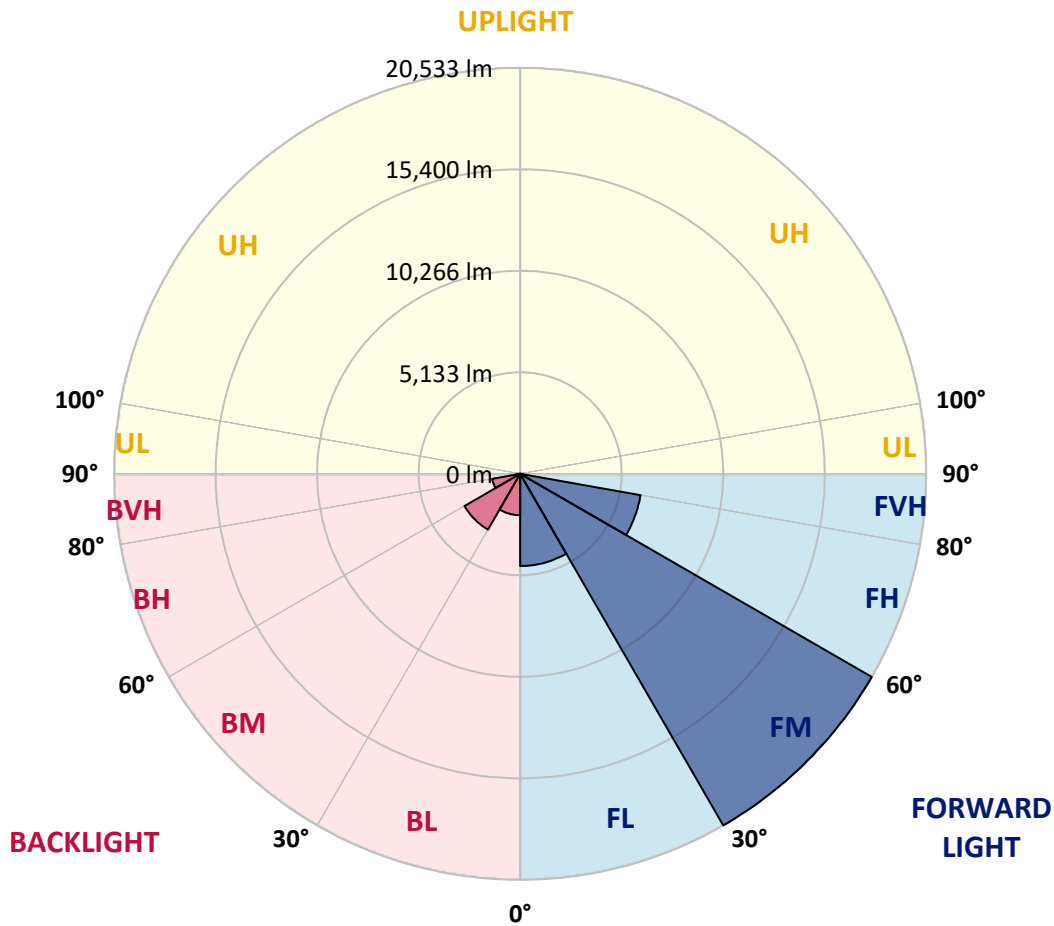
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4662.8 | 12.1 | | | |
| FM (30°-60°) | 20532.8 | 53.4 | | | |
| FH (60°-80°) | 6185.1 | 16.1 | | | G3/7500 |
| FVH (80°-90°) | 130.0 | 0.3 | | | G2/225 |
| BL (0°-30°) | 2092.3 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 3253.7 | 8.5 | B3/5000 | | |
| BH (60°-80°) | 1437.7 | 3.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 177.6 | 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° | 9639.8 | 9639.8 | 9639.8 | 9639.8 | 9639.8 | 9639.8 | 9639.8 | 9639.8 | 9639.8 | 9639.8 |
| 2.5° | 11059.9 | 11051.9 | 11095.7 | 10946.5 | 10845.1 | 10707.8 | 10526.9 | 10296.1 | 10047.5 | 9785.0 |
| 5° | 12056.3 | 11986.6 | 12032.4 | 11921.0 | 11809.6 | 11602.8 | 11334.3 | 10958.4 | 10499.0 | 9975.9 |
| 7.5° | 11899.1 | 11851.4 | 11968.7 | 12068.2 | 12151.7 | 12125.9 | 11929.0 | 11535.2 | 10942.5 | 10182.8 |
| 10° | 10632.3 | 10578.6 | 10743.6 | 11087.7 | 11592.9 | 12032.4 | 12271.0 | 12026.4 | 11396.0 | 10409.5 |
| 12.5° | 9514.5 | 9488.7 | 9598.1 | 9876.5 | 10437.4 | 11280.6 | 12227.3 | 12456.0 | 11867.3 | 10678.0 |
| 15° | 9037.2 | 9005.4 | 9075.0 | 9216.2 | 9574.2 | 10359.8 | 11829.5 | 12750.4 | 12330.7 | 10988.3 |
| 17.5° | 8931.8 | 8896.0 | 8925.8 | 8999.4 | 9230.1 | 9828.8 | 11228.9 | 12895.5 | 12814.0 | 11334.3 |
| 20° | 9126.7 | 9096.9 | 9100.9 | 9096.9 | 9258.0 | 9733.3 | 10811.3 | 12839.9 | 13235.6 | 11652.5 |
| 22.5° | 9598.1 | 9548.3 | 9550.3 | 9444.9 | 9532.4 | 9900.4 | 10701.9 | 12690.7 | 13611.5 | 11931.0 |
| 25° | 10365.8 | 10276.3 | 10294.2 | 10025.7 | 10001.8 | 10274.3 | 10872.9 | 12575.3 | 13985.4 | 12153.7 |
| 27.5° | 11415.9 | 11314.4 | 11260.7 | 10861.0 | 10670.0 | 10805.3 | 11221.0 | 12615.1 | 14339.4 | 12346.6 |
| 30° | 12728.5 | 12605.2 | 12495.8 | 11929.0 | 11582.9 | 11533.2 | 11761.9 | 12877.6 | 14757.1 | 12549.5 |
| 32.5° | 14337.4 | 14194.2 | 13995.4 | 13243.6 | 12756.3 | 12495.8 | 12462.0 | 13345.0 | 15246.3 | 12808.0 |
| 35° | 16252.7 | 16065.7 | 15783.3 | 14810.8 | 14194.2 | 13661.2 | 13384.8 | 14019.2 | 15916.6 | 13197.8 |
| 37.5° | 18225.6 | 18014.8 | 17756.2 | 16598.7 | 15841.0 | 15055.4 | 14510.5 | 14934.1 | 16809.5 | 13726.9 |
| 40° | 20045.4 | 19808.7 | 19568.0 | 18537.8 | 17724.4 | 16777.7 | 15888.7 | 16091.6 | 17901.4 | 14359.3 |
| 42.5° | 21119.3 | 20944.3 | 20852.8 | 20296.0 | 19667.5 | 18706.9 | 17603.1 | 17463.9 | 19128.5 | 15087.2 |
| 45° | 21071.6 | 21000.0 | 21282.4 | 21513.1 | 21364.0 | 20831.0 | 19611.8 | 18981.3 | 20359.6 | 15717.7 |
| 47.5° | 19945.9 | 19993.7 | 20624.1 | 21920.8 | 22491.6 | 22770.1 | 21899.0 | 20471.0 | 21429.6 | 16189.0 |
| 50° | 16883.1 | 16922.9 | 18382.7 | 21179.0 | 22782.0 | 24351.2 | 24168.2 | 21924.8 | 22258.9 | 16477.4 |
| 52.5° | 14458.8 | 14484.6 | 15111.1 | 18979.4 | 21823.4 | 25146.7 | 26212.7 | 23295.1 | 22865.5 | 16557.0 |
| 55° | 10890.8 | 10980.3 | 11682.4 | 14890.3 | 19329.4 | 24516.2 | 27457.7 | 24707.2 | 23249.4 | 16564.9 |
| 57.5° | 6362.3 | 6459.7 | 7326.8 | 10107.2 | 15023.6 | 22318.6 | 27646.7 | 25960.1 | 23509.9 | 16501.3 |
| 60° | 3116.5 | 3158.3 | 3536.1 | 5312.2 | 9263.9 | 18084.4 | 26127.2 | 26566.7 | 23655.1 | 16467.5 |
| 62.5° | 2100.2 | 2094.2 | 2110.1 | 2621.3 | 4564.4 | 11618.7 | 22961.0 | 25504.7 | 23577.5 | 16338.2 |
| 65° | 1805.9 | 1784.0 | 1724.3 | 1839.7 | 2364.7 | 5314.1 | 17740.3 | 22334.5 | 22986.8 | 16014.0 |
| 67.5° | 1561.2 | 1563.2 | 1565.2 | 1529.4 | 1688.5 | 2452.2 | 10841.1 | 17593.1 | 20866.8 | 14478.6 |
| 70° | 1292.7 | 1310.6 | 1318.6 | 1318.6 | 1376.3 | 1609.0 | 4628.0 | 12058.2 | 16459.5 | 11352.2 |
| 72.5° | 1177.4 | 1139.6 | 1143.6 | 1123.7 | 1123.7 | 1225.1 | 1863.5 | 6835.6 | 10369.7 | 6386.1 |
| 75° | 960.6 | 984.5 | 988.4 | 974.5 | 928.8 | 934.7 | 1105.8 | 2867.9 | 4437.1 | 2649.1 |
| 77.5° | 829.3 | 829.3 | 837.3 | 827.4 | 791.6 | 700.1 | 737.9 | 1111.8 | 1509.5 | 1085.9 |
| 80° | 666.3 | 664.3 | 698.1 | 718.0 | 662.3 | 517.1 | 471.4 | 614.5 | 670.2 | 477.3 |
| 82.5° | 324.2 | 344.1 | 479.3 | 546.9 | 503.2 | 373.9 | 288.4 | 381.9 | 358.0 | 210.8 |
| 85° | 188.9 | 179.0 | 214.8 | 304.3 | 288.4 | 206.8 | 139.2 | 198.9 | 186.9 | 107.4 |
| 87.5° | 59.7 | 55.7 | 43.8 | 103.4 | 83.5 | 57.7 | 37.8 | 57.7 | 51.7 | 23.9 |
| 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° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9639.8 | 0° | 9639.8 | 9639.8 | 9639.8 | 9639.8 | 9639.8 | 9639.8 | 9639.8 | 9639.8 | 9639.8 | 9639.8 |
| 9671.7 | 2.5° | 9530.4 | 9295.8 | 9063.1 | 8850.3 | 8721.0 | 8637.5 | 8553.9 | 8460.5 | 8424.7 | 8371.0 |
| 9697.5 | 5° | 9435.0 | 8981.5 | 8577.8 | 8229.8 | 7913.5 | 7664.9 | 7414.3 | 7211.5 | 7120.0 | 7181.6 |
| 9779.1 | 7.5° | 9379.3 | 8723.0 | 8100.5 | 7462.1 | 6847.5 | 6356.3 | 5928.7 | 5628.4 | 5493.1 | 5526.9 |
| 9858.6 | 10° | 9329.6 | 8430.6 | 7482.0 | 6473.6 | 5590.6 | 4982.0 | 4544.5 | 4315.8 | 4230.2 | 4248.1 |
| 9966.0 | 12.5° | 9283.8 | 8102.5 | 6736.2 | 5409.6 | 4470.9 | 4069.1 | 3943.8 | 3945.8 | 3961.7 | 3973.7 |
| 10137.0 | 15° | 9275.9 | 7706.7 | 5902.8 | 4478.8 | 3866.3 | 3840.4 | 3975.7 | 4061.2 | 4106.9 | 4120.8 |
| 10280.2 | 17.5° | 9263.9 | 7233.4 | 5053.6 | 3844.4 | 3719.1 | 3894.1 | 4019.4 | 4075.1 | 4110.9 | 4112.9 |
| 10419.5 | 20° | 9216.2 | 6632.7 | 4270.0 | 3542.1 | 3687.3 | 3838.4 | 3916.0 | 3959.8 | 3989.6 | 3999.5 |
| 10524.9 | 22.5° | 9069.0 | 5964.5 | 3659.4 | 3406.9 | 3560.0 | 3681.3 | 3772.8 | 3822.5 | 3840.4 | 3852.4 |
| 10544.7 | 25° | 8804.5 | 5216.7 | 3237.8 | 3277.6 | 3383.0 | 3536.1 | 3609.7 | 3619.7 | 3613.7 | 3631.6 |
| 10495.0 | 27.5° | 8458.5 | 4415.2 | 2975.3 | 3102.6 | 3237.8 | 3369.1 | 3408.8 | 3402.9 | 3390.9 | 3410.8 |
| 10409.5 | 30° | 8040.8 | 3695.2 | 2808.2 | 2905.7 | 3090.6 | 3210.0 | 3245.8 | 3231.8 | 3208.0 | 3229.9 |
| 10365.8 | 32.5° | 7599.3 | 3106.5 | 2671.0 | 2768.4 | 2969.3 | 3086.7 | 3122.5 | 3108.5 | 3090.6 | 3108.5 |
| 10415.5 | 35° | 7187.6 | 2694.9 | 2543.7 | 2677.0 | 2873.9 | 2989.2 | 3034.9 | 3036.9 | 3036.9 | 3058.8 |
| 10546.7 | 37.5° | 6809.7 | 2454.2 | 2438.3 | 2619.3 | 2808.2 | 2911.6 | 2977.3 | 2981.2 | 2895.7 | 2901.7 |
| 10769.5 | 40° | 6459.7 | 2352.8 | 2390.6 | 2581.5 | 2744.6 | 2844.0 | 2848.0 | 2625.2 | 2468.1 | 2464.2 |
| 11024.1 | 42.5° | 6173.3 | 2332.9 | 2404.5 | 2577.5 | 2698.8 | 2702.8 | 2422.4 | 2249.4 | 2205.6 | 2207.6 |
| 11258.7 | 45° | 5904.8 | 2326.9 | 2436.3 | 2577.5 | 2631.2 | 2334.9 | 2145.9 | 2100.2 | 2104.2 | 2120.1 |
| 11364.1 | 47.5° | 5604.5 | 2303.1 | 2442.3 | 2541.7 | 2436.3 | 2076.3 | 2020.6 | 2000.8 | 1992.8 | 1996.8 |
| 11340.3 | 50° | 5276.4 | 2217.5 | 2366.7 | 2470.1 | 2102.2 | 1965.0 | 1895.4 | 1889.4 | 1899.3 | 1905.3 |
| 11207.0 | 52.5° | 4930.3 | 2078.3 | 2237.4 | 2340.8 | 1949.0 | 1867.5 | 1789.9 | 1803.9 | 1847.6 | 1861.5 |
| 11067.8 | 55° | 4703.6 | 1915.2 | 2066.4 | 2082.3 | 1841.7 | 1776.0 | 1710.4 | 1742.2 | 1823.8 | 1849.6 |
| 10984.3 | 57.5° | 4643.9 | 1742.2 | 1871.5 | 1853.6 | 1704.4 | 1696.5 | 1656.7 | 1684.5 | 1788.0 | 1825.7 |
| 10980.3 | 60° | 4626.0 | 1587.1 | 1680.6 | 1666.6 | 1571.2 | 1609.0 | 1599.0 | 1612.9 | 1648.7 | 1660.7 |
| 10940.5 | 62.5° | 4486.8 | 1463.8 | 1509.5 | 1489.6 | 1451.8 | 1517.5 | 1541.3 | 1511.5 | 1539.4 | 1553.3 |
| 10668.1 | 65° | 4132.8 | 1364.3 | 1342.5 | 1328.5 | 1344.4 | 1404.1 | 1451.8 | 1392.2 | 1418.0 | 1457.8 |
| 9618.0 | 67.5° | 3548.1 | 1229.1 | 1169.4 | 1185.3 | 1235.1 | 1266.9 | 1328.5 | 1260.9 | 1282.8 | 1350.4 |
| 7746.5 | 70° | 2869.9 | 1058.1 | 1004.4 | 1050.1 | 1097.8 | 1163.5 | 1173.4 | 1127.7 | 1179.4 | 1254.9 |
| 4727.4 | 72.5° | 2030.6 | 885.0 | 847.2 | 940.7 | 956.6 | 1042.1 | 1020.3 | 998.4 | 1070.0 | 1095.8 |
| 2336.9 | 75° | 1408.1 | 714.0 | 692.1 | 763.7 | 821.4 | 895.0 | 879.1 | 904.9 | 1056.1 | 1068.0 |
| 1167.4 | 77.5° | 891.0 | 554.9 | 541.0 | 586.7 | 666.3 | 747.8 | 773.7 | 1068.0 | 1803.9 | 1875.5 |
| 606.6 | 80° | 517.1 | 413.7 | 397.8 | 433.6 | 503.2 | 578.7 | 745.8 | 1310.6 | 1189.3 | 1175.4 |
| 272.5 | 82.5° | 288.4 | 284.4 | 264.5 | 274.5 | 336.1 | 417.7 | 1054.1 | 922.8 | 749.8 | 773.7 |
| 109.4 | 85° | 135.2 | 167.1 | 143.2 | 137.2 | 188.9 | 489.3 | 704.0 | 527.0 | 350.0 | 342.1 |
| 23.9 | 87.5° | 35.8 | 31.8 | 31.8 | 35.8 | 79.6 | 421.6 | 280.4 | 224.7 | 133.3 | 129.3 |
| 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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