

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: P953190

Luminaire Tested: **GALN-SB6D-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45751 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

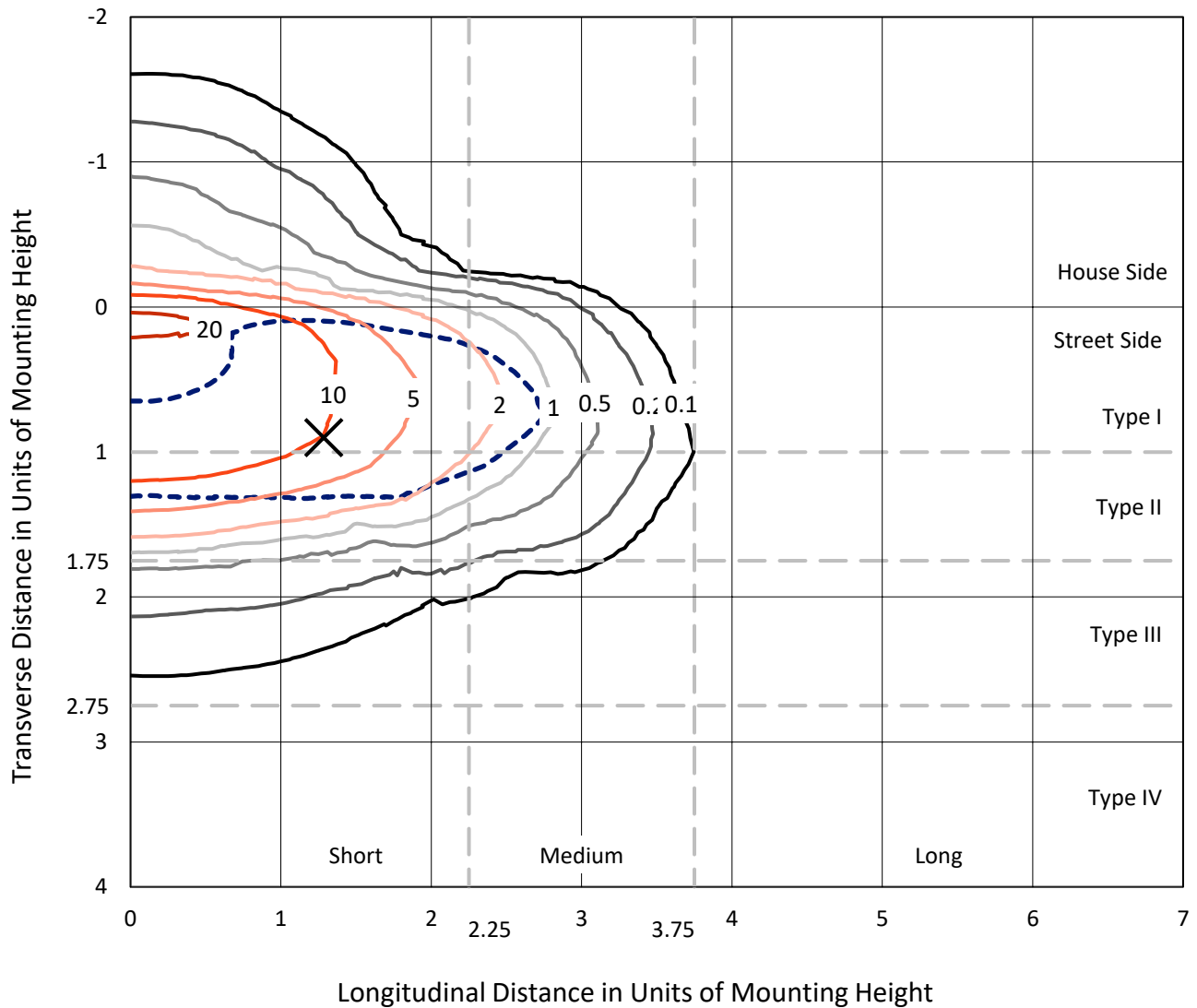
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

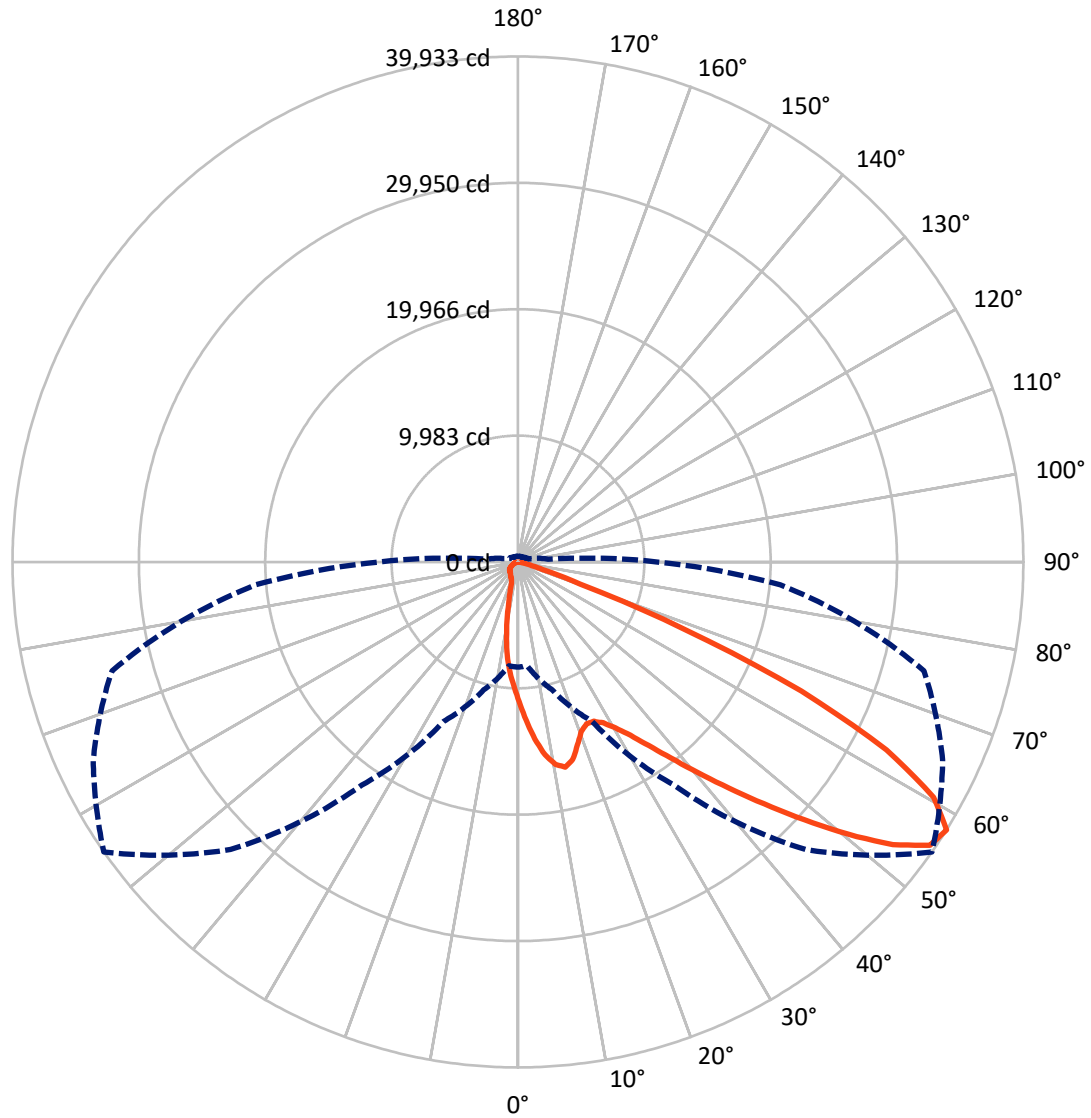
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.3 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 | 3573.0 | 0.0 | 3573.0 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 42178.0 | 0.0 | 42178.0 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 45751.0 | 0.0 | 45751.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1025.8 | 2.2 |
| 10°-20° | 2477.8 | 5.4 |
| 20°-30° | 3964.5 | 8.7 |
| 30°-40° | 6710.2 | 14.7 |
| 40°-50° | 11016.6 | 24.1 |
| 50°-60° | 12108.1 | 26.5 |
| 60°-70° | 6945.2 | 15.2 |
| 70°-80° | 1419.1 | 3.1 |
| 80°-90° | 83.7 | 0.2 |
| 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° | 45751.0 | 100.0 |
| 0°-180° | 45751.0 | 100.0 |

Coefficient of Utilization



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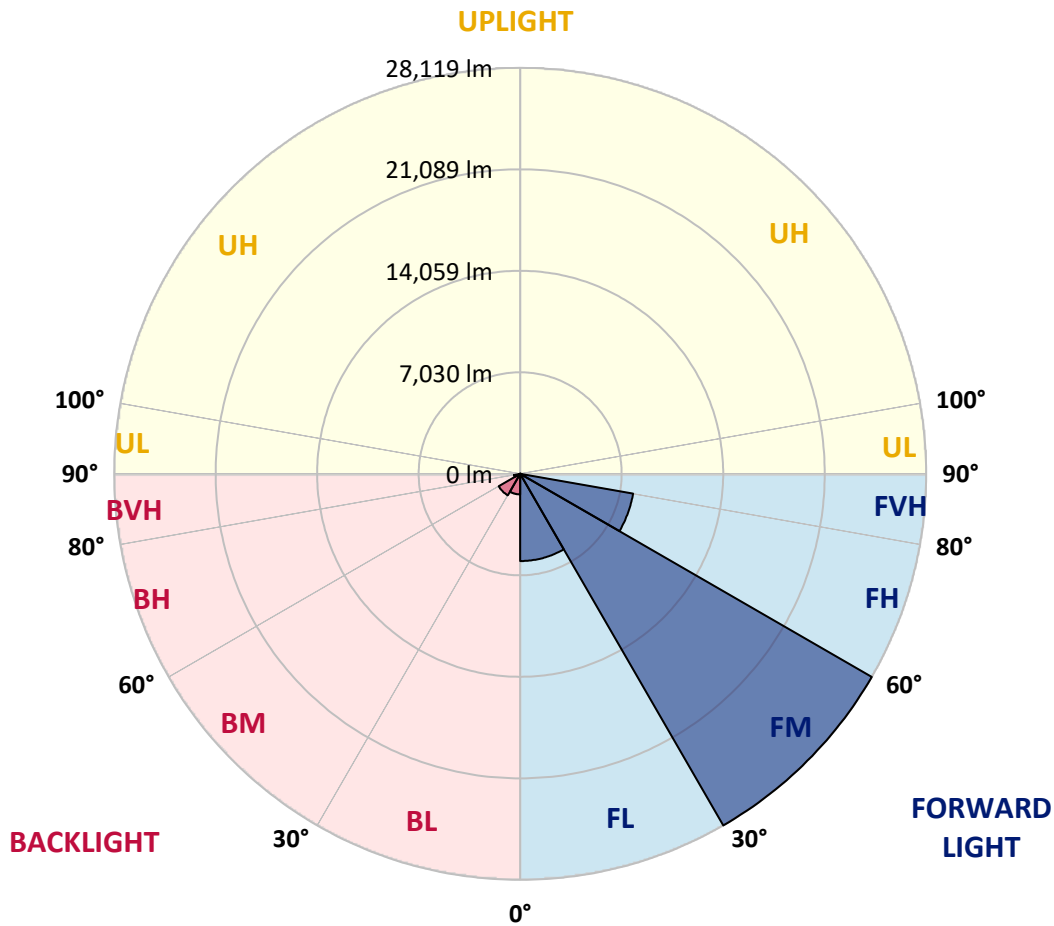
CATALOG NUMBER: GALN-SB6D-827-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 6041.7 | 13.2 | | | |
| FM (30°-60°) | 28118.9 | 61.5 | | | |
| FH (60°-80°) | 7939.4 | 17.4 | | | G4/12000 |
| FVH (80°-90°) | 78.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1426.4 | 3.1 | B3/2500 | | |
| BM (30°-60°) | 1716.0 | 3.8 | B2/2500 | | |
| BH (60°-80°) | 424.9 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.6 | 0.0 | | | G0/10 |
| 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 Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11024.9 | 11024.9 | 11024.9 | 11024.9 | 11024.9 | 11024.9 | 11024.9 | 11024.9 | 11024.9 | 11024.9 |
| 2.5° | 13679.5 | 13507.4 | 13482.0 | 13448.2 | 13120.9 | 12875.5 | 12520.0 | 12130.7 | 11693.5 | 11247.7 |
| 5° | 15803.8 | 15668.4 | 15643.0 | 15485.0 | 15112.6 | 14695.1 | 14063.2 | 13264.8 | 12449.5 | 11490.3 |
| 7.5° | 16215.7 | 16190.3 | 16306.0 | 16300.3 | 16249.5 | 15919.5 | 15386.3 | 14435.6 | 13211.2 | 11789.4 |
| 10° | 14379.2 | 14444.0 | 14788.2 | 15090.1 | 15905.4 | 16379.3 | 16263.6 | 15479.4 | 13995.5 | 12130.7 |
| 12.5° | 12706.2 | 12630.1 | 12875.5 | 13216.9 | 14164.7 | 15575.3 | 16627.6 | 16351.1 | 14892.6 | 12517.2 |
| 15° | 11656.8 | 11625.8 | 11764.0 | 11922.0 | 12644.2 | 14066.0 | 16204.4 | 17059.2 | 15755.9 | 12974.2 |
| 17.5° | 11321.1 | 11295.7 | 11338.0 | 11377.5 | 11845.8 | 12946.0 | 15197.3 | 17493.6 | 16582.4 | 13496.1 |
| 20° | 11594.7 | 11560.9 | 11555.2 | 11524.2 | 11718.9 | 12469.3 | 14286.1 | 17524.7 | 17324.4 | 13970.1 |
| 22.5° | 12393.1 | 12353.6 | 12215.4 | 12091.2 | 12108.2 | 12534.2 | 13879.8 | 17214.4 | 17883.0 | 14413.0 |
| 25° | 13840.3 | 13775.4 | 13487.7 | 13070.2 | 12805.0 | 12985.5 | 13941.9 | 16805.3 | 18416.1 | 14760.0 |
| 27.5° | 15651.5 | 15566.8 | 15197.3 | 14576.6 | 13970.1 | 13750.0 | 14390.4 | 16523.2 | 18859.1 | 15025.2 |
| 30° | 17425.9 | 17315.9 | 16952.0 | 16469.6 | 15583.8 | 14889.8 | 15200.1 | 16647.3 | 19386.6 | 15301.7 |
| 32.5° | 19341.5 | 19237.1 | 18754.7 | 18156.6 | 17423.1 | 16489.3 | 16308.8 | 17253.9 | 20032.6 | 15688.1 |
| 35° | 21764.8 | 21601.2 | 20915.6 | 20100.3 | 19321.7 | 18376.7 | 17809.6 | 18300.5 | 20893.1 | 16277.8 |
| 37.5° | 24523.8 | 24303.8 | 23564.7 | 22439.0 | 21423.4 | 20365.5 | 19637.7 | 19739.2 | 22154.1 | 17067.7 |
| 40° | 27124.9 | 26924.6 | 26241.9 | 25181.1 | 23906.0 | 22622.4 | 21846.6 | 21620.9 | 23894.7 | 18029.7 |
| 42.5° | 28685.0 | 28504.4 | 28216.7 | 27768.1 | 26693.3 | 25384.3 | 24405.3 | 23917.3 | 25954.1 | 19180.7 |
| 45° | 28772.4 | 28614.4 | 29000.9 | 29522.8 | 29311.2 | 28439.5 | 27246.2 | 26351.9 | 28022.0 | 20261.1 |
| 47.5° | 27373.1 | 27265.9 | 28439.5 | 30262.0 | 31170.3 | 31537.1 | 30436.9 | 28583.4 | 29728.8 | 21037.0 |
| 50° | 23559.0 | 23519.5 | 25934.4 | 29280.2 | 31878.4 | 34251.0 | 33802.4 | 30659.7 | 31051.9 | 21437.5 |
| 52.5° | 20427.6 | 20283.7 | 21691.4 | 26137.5 | 30848.7 | 35678.5 | 37091.8 | 32696.6 | 31977.2 | 21513.7 |
| 55° | 15493.5 | 15366.5 | 17132.5 | 20879.0 | 27528.3 | 35170.7 | 39498.2 | 34798.3 | 32640.1 | 21319.1 |
| 57.5° | 8311.0 | 8232.0 | 10463.5 | 13896.7 | 21519.4 | 32123.9 | 39932.7 | 37021.3 | 33198.7 | 20802.8 |
| 60° | 3235.8 | 3221.7 | 4056.7 | 6742.4 | 13078.6 | 26134.7 | 37740.7 | 38355.7 | 33548.5 | 20168.1 |
| 62.5° | 1957.8 | 2000.2 | 2135.6 | 3027.0 | 5777.6 | 16235.4 | 32688.1 | 36837.9 | 33782.7 | 19586.9 |
| 65° | 1619.3 | 1622.1 | 1639.1 | 2079.2 | 2767.5 | 6793.2 | 24608.5 | 31844.6 | 33204.4 | 18551.6 |
| 67.5° | 1388.0 | 1413.4 | 1478.3 | 1650.3 | 1952.2 | 2979.1 | 14167.6 | 24667.7 | 29686.4 | 16142.3 |
| 70° | 1094.6 | 1128.4 | 1210.3 | 1356.9 | 1506.5 | 1864.7 | 5236.0 | 16413.2 | 22678.8 | 12167.4 |
| 72.5° | 922.5 | 919.7 | 962.0 | 1103.1 | 1196.1 | 1311.8 | 2014.3 | 9196.8 | 13180.2 | 5808.6 |
| 75° | 713.7 | 741.9 | 795.6 | 922.5 | 978.9 | 950.7 | 1091.8 | 3359.9 | 4722.5 | 1760.4 |
| 77.5° | 558.6 | 581.1 | 629.1 | 753.2 | 809.7 | 674.2 | 629.1 | 1201.8 | 1517.8 | 631.9 |
| 80° | 251.1 | 270.8 | 428.8 | 555.8 | 660.1 | 465.5 | 341.4 | 615.0 | 674.2 | 287.8 |
| 82.5° | 45.1 | 76.2 | 251.1 | 293.4 | 338.5 | 301.9 | 177.7 | 318.8 | 330.1 | 115.7 |
| 85° | 2.8 | 5.6 | 87.5 | 107.2 | 135.4 | 98.7 | 53.6 | 126.9 | 110.0 | 39.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.8 | 2.8 | 14.1 | 16.9 | 22.6 | 16.9 | 14.1 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 11024.9 | 0° | 11024.9 | 11024.9 | 11024.9 | 11024.9 | 11024.9 | 11024.9 | 11024.9 | 11024.9 | 11024.9 | 11024.9 |
| 11050.3 | 2.5° | 10847.1 | 10446.5 | 10057.2 | 9738.4 | 9552.2 | 9236.3 | 9027.5 | 8993.7 | 8906.2 | 8982.4 |
| 11078.5 | 5° | 10638.4 | 9921.8 | 9196.8 | 8547.9 | 8014.7 | 7326.4 | 6813.0 | 6595.7 | 6406.7 | 6471.6 |
| 11151.8 | 7.5° | 10539.6 | 9408.4 | 8279.9 | 7171.2 | 6031.5 | 4931.3 | 4113.2 | 3771.8 | 3512.3 | 3548.9 |
| 11233.6 | 10° | 10407.0 | 8875.2 | 7106.4 | 5413.7 | 3887.5 | 2801.4 | 2237.1 | 2028.4 | 1912.7 | 1915.5 |
| 11354.9 | 12.5° | 10305.5 | 8237.6 | 5743.8 | 3670.3 | 2366.9 | 1788.6 | 1613.7 | 1562.9 | 1529.0 | 1531.9 |
| 11538.3 | 15° | 10254.7 | 7487.2 | 4398.1 | 2445.9 | 1692.7 | 1514.9 | 1472.6 | 1450.0 | 1427.5 | 1424.7 |
| 11741.4 | 17.5° | 10170.1 | 6652.2 | 3218.9 | 1785.8 | 1481.1 | 1419.0 | 1382.3 | 1356.9 | 1328.7 | 1323.1 |
| 11916.3 | 20° | 10043.1 | 5704.3 | 2352.8 | 1509.3 | 1388.0 | 1340.0 | 1289.2 | 1255.4 | 1221.5 | 1215.9 |
| 12026.4 | 22.5° | 9809.0 | 4702.8 | 1808.3 | 1396.4 | 1320.3 | 1266.7 | 1204.6 | 1165.1 | 1131.3 | 1125.6 |
| 11972.8 | 25° | 9374.5 | 3763.3 | 1523.4 | 1325.9 | 1261.0 | 1196.1 | 1128.4 | 1074.8 | 1043.8 | 1038.2 |
| 11857.1 | 27.5° | 8824.4 | 2956.5 | 1382.3 | 1261.0 | 1184.9 | 1125.6 | 1049.4 | 998.7 | 970.5 | 964.8 |
| 11704.7 | 30° | 8175.6 | 2276.6 | 1300.5 | 1187.7 | 1094.6 | 1043.8 | 976.1 | 933.8 | 916.9 | 916.9 |
| 11597.5 | 32.5° | 7475.9 | 1819.6 | 1266.7 | 1114.3 | 1015.6 | 959.2 | 905.6 | 888.6 | 883.0 | 880.2 |
| 11656.8 | 35° | 6818.6 | 1579.8 | 1249.7 | 1055.1 | 945.1 | 891.5 | 868.9 | 871.7 | 883.0 | 883.0 |
| 11840.2 | 37.5° | 6234.6 | 1503.6 | 1241.3 | 1012.8 | 883.0 | 835.0 | 849.2 | 874.5 | 863.3 | 863.3 |
| 12161.8 | 40° | 5707.1 | 1512.1 | 1235.6 | 981.7 | 832.2 | 804.0 | 832.2 | 812.5 | 784.3 | 781.4 |
| 12553.9 | 42.5° | 5303.7 | 1582.6 | 1224.4 | 956.4 | 801.2 | 781.4 | 770.2 | 739.1 | 736.3 | 741.9 |
| 12960.1 | 45° | 5010.3 | 1644.7 | 1221.5 | 945.1 | 767.3 | 730.7 | 716.6 | 685.5 | 741.9 | 756.1 |
| 13126.6 | 47.5° | 4663.3 | 1644.7 | 1221.5 | 905.6 | 710.9 | 696.8 | 674.2 | 640.4 | 696.8 | 710.9 |
| 12968.6 | 50° | 4214.7 | 1540.3 | 1173.6 | 860.4 | 665.8 | 657.3 | 617.8 | 575.5 | 564.2 | 572.7 |
| 12599.0 | 52.5° | 3647.7 | 1351.3 | 1052.3 | 798.4 | 620.6 | 603.7 | 555.8 | 524.7 | 516.3 | 516.3 |
| 11936.1 | 55° | 3001.7 | 1131.3 | 888.6 | 708.1 | 572.7 | 541.7 | 507.8 | 493.7 | 485.2 | 479.6 |
| 11007.9 | 57.5° | 2440.3 | 928.1 | 713.7 | 629.1 | 527.5 | 488.1 | 476.8 | 459.8 | 445.7 | 437.3 |
| 10232.1 | 60° | 2003.0 | 730.7 | 589.6 | 558.6 | 482.4 | 445.7 | 442.9 | 420.3 | 383.7 | 378.0 |
| 9591.7 | 62.5° | 1546.0 | 536.0 | 496.5 | 485.2 | 437.3 | 406.2 | 400.6 | 355.5 | 299.0 | 287.8 |
| 8683.3 | 65° | 1091.8 | 417.5 | 400.6 | 426.0 | 389.3 | 361.1 | 347.0 | 279.3 | 220.0 | 211.6 |
| 7267.2 | 67.5° | 767.3 | 349.8 | 316.0 | 372.4 | 338.5 | 301.9 | 293.4 | 237.0 | 183.4 | 177.7 |
| 5495.5 | 70° | 547.3 | 284.9 | 259.5 | 318.8 | 270.8 | 265.2 | 248.3 | 197.5 | 149.5 | 143.9 |
| 2719.5 | 72.5° | 386.5 | 217.2 | 200.3 | 276.5 | 186.2 | 228.5 | 203.1 | 152.3 | 112.8 | 107.2 |
| 925.3 | 75° | 284.9 | 155.2 | 141.1 | 160.8 | 135.4 | 172.1 | 143.9 | 101.6 | 70.5 | 67.7 |
| 417.5 | 77.5° | 208.8 | 98.7 | 84.6 | 79.0 | 79.0 | 107.2 | 79.0 | 42.3 | 31.0 | 28.2 |
| 211.6 | 80° | 146.7 | 45.1 | 39.5 | 33.9 | 31.0 | 25.4 | 11.3 | 5.6 | 2.8 | 2.8 |
| 73.3 | 82.5° | 87.5 | 19.7 | 19.7 | 14.1 | 8.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 28.2 | 85° | 19.7 | 8.5 | 8.5 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11.3 | 87.5° | 2.8 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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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