

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: P953820

Luminaire Tested: **GALN-SB7B-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953820
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-SB7B-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 450mA 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: 34144 lumens
Efficiency: N/A
Efficacy: 133.0 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

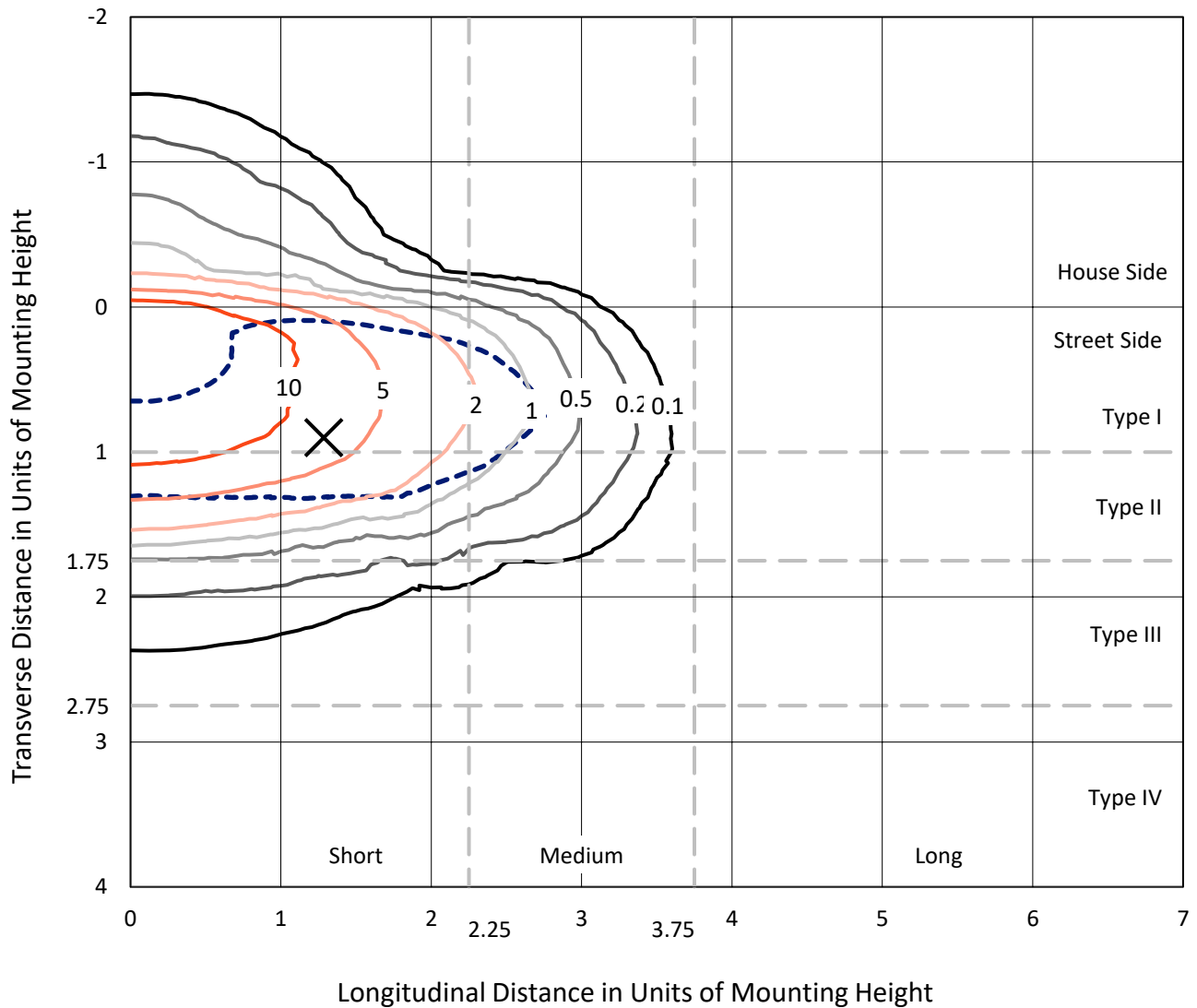
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

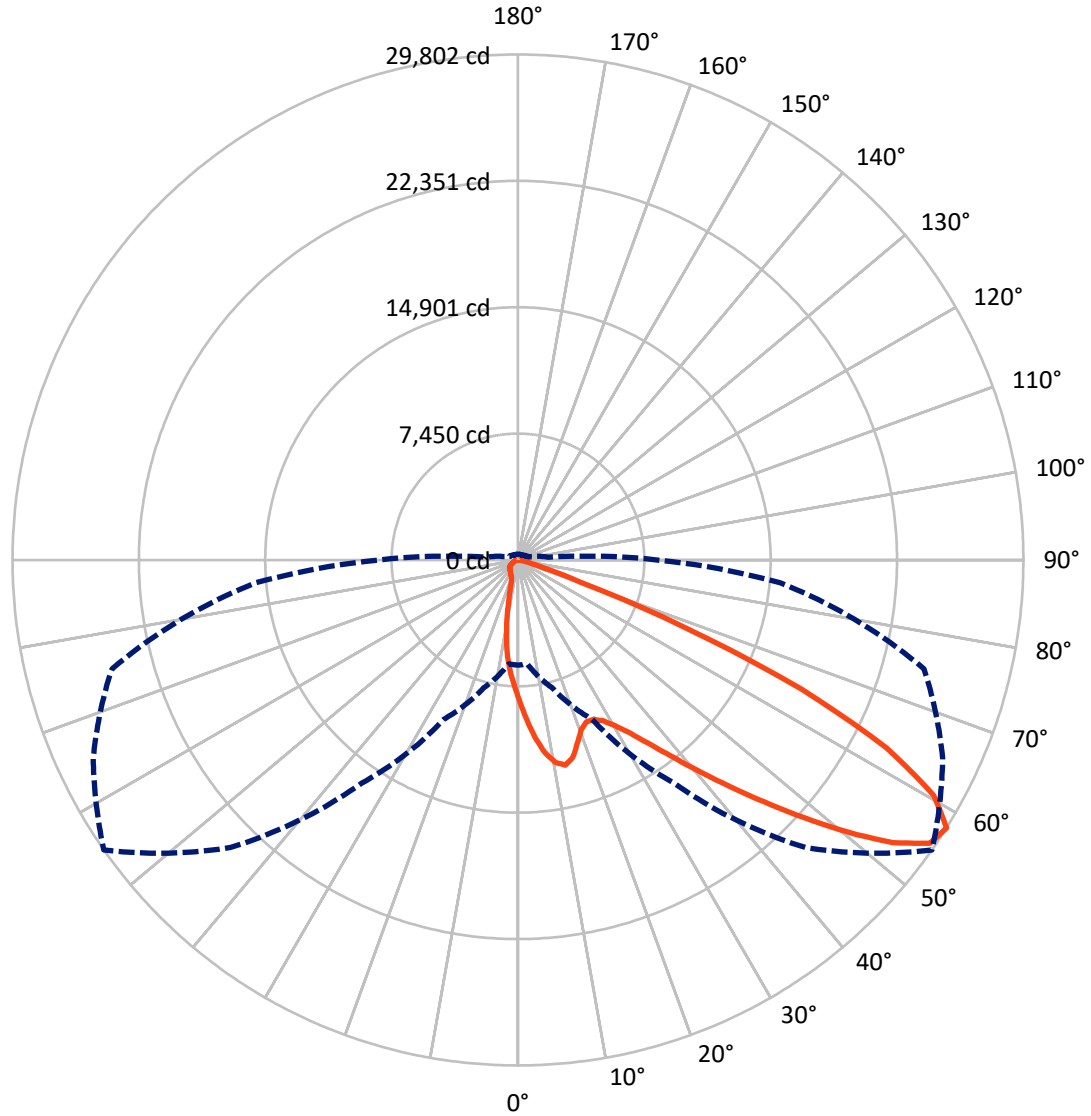
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 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 | 2666.5 | 0.0 | 2666.5 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 31477.5 | 0.0 | 31477.5 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 34144.0 | 0.0 | 34144.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 765.6 | 2.2 |
| 10°-20° | 1849.2 | 5.4 |
| 20°-30° | 2958.7 | 8.7 |
| 30°-40° | 5007.8 | 14.7 |
| 40°-50° | 8221.7 | 24.1 |
| 50°-60° | 9036.3 | 26.5 |
| 60°-70° | 5183.2 | 15.2 |
| 70°-80° | 1059.1 | 3.1 |
| 80°-90° | 62.5 | 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° | 34144.0 | 100.0 |
| 0°-180° | 34144.0 | 100.0 |

Coefficient of Utilization



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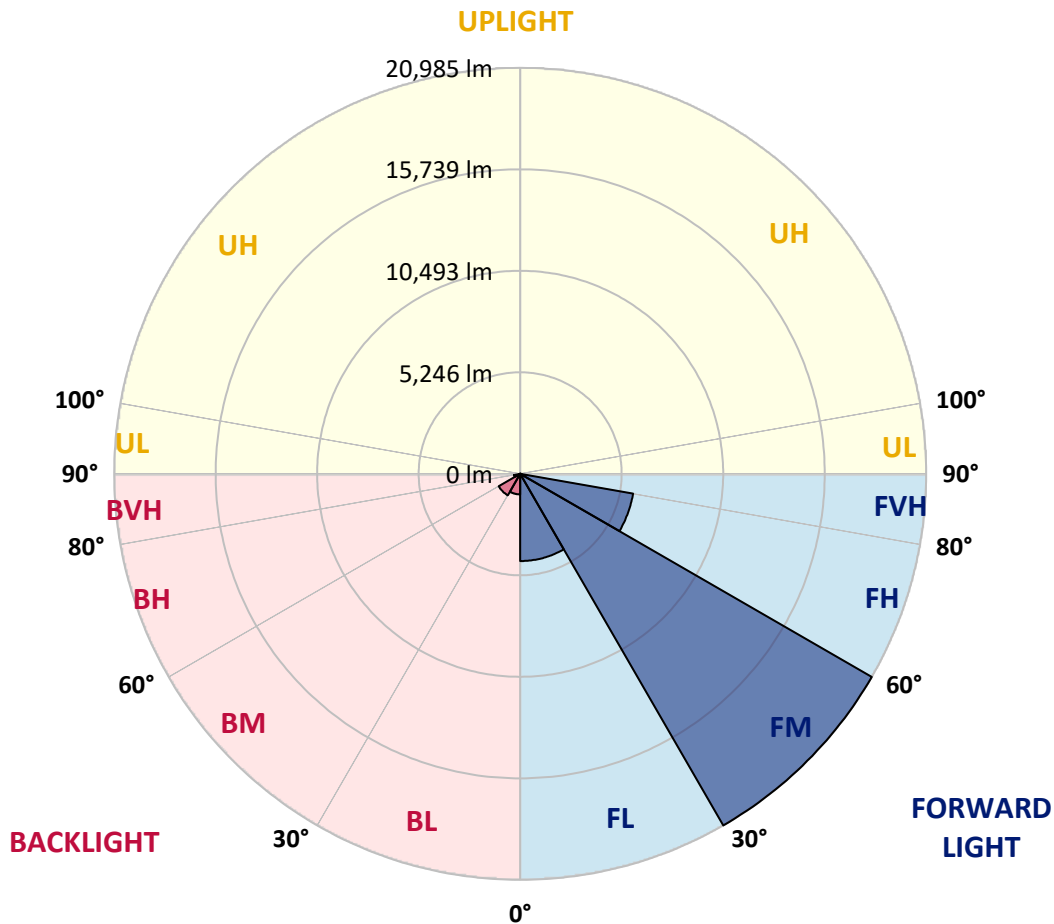
CATALOG NUMBER: GALN-SB7B-735-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4508.9 | 13.2 | | | |
| FM (30°-60°) | 20985.1 | 61.5 | | | |
| FH (60°-80°) | 5925.2 | 17.4 | | | G3/7500 |
| FVH (80°-90°) | 58.3 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1064.5 | 3.1 | B3/2500 | | |
| BM (30°-60°) | 1280.6 | 3.8 | B2/2500 | | |
| BH (60°-80°) | 317.1 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.2 | 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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8227.9 | 8227.9 | 8227.9 | 8227.9 | 8227.9 | 8227.9 | 8227.9 | 8227.9 | 8227.9 | 8227.9 |
| 2.5° | 10209.0 | 10080.6 | 10061.7 | 10036.4 | 9792.2 | 9609.0 | 9343.7 | 9053.2 | 8726.8 | 8394.2 |
| 5° | 11794.4 | 11693.3 | 11674.4 | 11556.5 | 11278.6 | 10967.0 | 10495.4 | 9899.5 | 9291.1 | 8575.3 |
| 7.5° | 12101.8 | 12082.8 | 12169.2 | 12164.9 | 12127.0 | 11880.7 | 11482.8 | 10773.3 | 9859.5 | 8798.4 |
| 10° | 10731.2 | 10779.6 | 11036.5 | 11261.7 | 11870.2 | 12223.9 | 12137.6 | 11552.3 | 10444.8 | 9053.2 |
| 12.5° | 9482.7 | 9425.8 | 9609.0 | 9863.8 | 10571.2 | 11623.9 | 12409.2 | 12202.8 | 11114.4 | 9341.6 |
| 15° | 8699.5 | 8676.3 | 8779.5 | 8897.4 | 9436.4 | 10497.5 | 12093.4 | 12731.3 | 11758.6 | 9682.7 |
| 17.5° | 8448.9 | 8430.0 | 8461.6 | 8491.0 | 8840.5 | 9661.6 | 11341.7 | 13055.5 | 12375.5 | 10072.2 |
| 20° | 8653.2 | 8627.9 | 8623.7 | 8600.5 | 8745.8 | 9305.8 | 10661.7 | 13078.7 | 12929.2 | 10425.9 |
| 22.5° | 9249.0 | 9219.5 | 9116.3 | 9023.7 | 9036.3 | 9354.2 | 10358.5 | 12847.1 | 13346.1 | 10756.4 |
| 25° | 10329.0 | 10280.6 | 10065.9 | 9754.3 | 9556.4 | 9691.1 | 10404.8 | 12541.8 | 13744.0 | 11015.4 |
| 27.5° | 11680.7 | 11617.5 | 11341.7 | 10878.5 | 10425.9 | 10261.7 | 10739.6 | 12331.3 | 14074.5 | 11213.3 |
| 30° | 13005.0 | 12922.9 | 12651.3 | 12291.3 | 11630.2 | 11112.2 | 11343.8 | 12423.9 | 14468.2 | 11419.6 |
| 32.5° | 14434.6 | 14356.7 | 13996.6 | 13550.3 | 13002.9 | 12306.0 | 12171.3 | 12876.6 | 14950.4 | 11708.1 |
| 35° | 16243.1 | 16121.0 | 15609.4 | 15000.9 | 14419.8 | 13714.5 | 13291.3 | 13657.7 | 15592.5 | 12148.1 |
| 37.5° | 18302.2 | 18137.9 | 17586.3 | 16746.3 | 15988.3 | 15198.8 | 14655.6 | 14731.4 | 16533.6 | 12737.6 |
| 40° | 20243.3 | 20093.8 | 19584.3 | 18792.7 | 17841.1 | 16883.1 | 16304.1 | 16135.7 | 17832.6 | 13455.5 |
| 42.5° | 21407.6 | 21272.9 | 21058.1 | 20723.3 | 19921.2 | 18944.3 | 18213.7 | 17849.5 | 19369.6 | 14314.5 |
| 45° | 21472.9 | 21355.0 | 21643.4 | 22032.9 | 21875.0 | 21224.4 | 20333.9 | 19666.4 | 20912.8 | 15120.9 |
| 47.5° | 20428.6 | 20348.6 | 21224.4 | 22584.5 | 23262.4 | 23536.2 | 22715.0 | 21331.8 | 22186.6 | 15699.9 |
| 50° | 17582.1 | 17552.6 | 19354.8 | 21851.8 | 23790.9 | 25561.5 | 25226.8 | 22881.4 | 23174.0 | 15998.9 |
| 52.5° | 15245.1 | 15137.8 | 16188.3 | 19506.4 | 23022.4 | 26626.9 | 27681.7 | 24401.5 | 23864.6 | 16055.7 |
| 55° | 11562.8 | 11468.1 | 12786.0 | 15582.0 | 20544.4 | 26247.9 | 29477.6 | 25970.0 | 24359.4 | 15910.4 |
| 57.5° | 6202.5 | 6143.5 | 7808.9 | 10371.1 | 16059.9 | 23974.1 | 29801.8 | 27629.0 | 24776.2 | 15525.1 |
| 60° | 2414.9 | 2404.4 | 3027.6 | 5031.9 | 9760.6 | 19504.3 | 28165.9 | 28624.9 | 25037.3 | 15051.4 |
| 62.5° | 1461.1 | 1492.7 | 1593.8 | 2259.1 | 4311.8 | 12116.5 | 24395.1 | 27492.2 | 25212.0 | 14617.7 |
| 65° | 1208.5 | 1210.6 | 1223.2 | 1551.7 | 2065.4 | 5069.8 | 18365.3 | 23765.6 | 24780.4 | 13845.0 |
| 67.5° | 1035.9 | 1054.8 | 1103.2 | 1231.7 | 1456.9 | 2223.3 | 10573.3 | 18409.5 | 22155.0 | 12047.0 |
| 70° | 816.9 | 842.2 | 903.2 | 1012.7 | 1124.3 | 1391.7 | 3907.6 | 12249.2 | 16925.2 | 9080.5 |
| 72.5° | 688.5 | 686.4 | 717.9 | 823.2 | 892.7 | 979.0 | 1503.2 | 6863.6 | 9836.4 | 4335.0 |
| 75° | 532.7 | 553.7 | 593.7 | 688.5 | 730.6 | 709.5 | 814.8 | 2507.5 | 3524.4 | 1313.8 |
| 77.5° | 416.9 | 433.7 | 469.5 | 562.1 | 604.2 | 503.2 | 469.5 | 896.9 | 1132.7 | 471.6 |
| 80° | 187.4 | 202.1 | 320.0 | 414.8 | 492.7 | 347.4 | 254.8 | 459.0 | 503.2 | 214.7 |
| 82.5° | 33.7 | 56.8 | 187.4 | 219.0 | 252.6 | 225.3 | 132.6 | 237.9 | 246.3 | 86.3 |
| 85° | 2.1 | 4.2 | 65.3 | 80.0 | 101.1 | 73.7 | 40.0 | 94.7 | 82.1 | 29.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 10.5 | 12.6 | 16.8 | 12.6 | 10.5 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 8227.9 | 0° | 8227.9 | 8227.9 | 8227.9 | 8227.9 | 8227.9 | 8227.9 | 8227.9 | 8227.9 | 8227.9 | 8227.9 |
| 8246.8 | 2.5° | 8095.2 | 7796.3 | 7505.7 | 7267.8 | 7128.8 | 6893.0 | 6737.2 | 6712.0 | 6646.7 | 6703.6 |
| 8267.9 | 5° | 7939.4 | 7404.7 | 6863.6 | 6379.3 | 5981.4 | 5467.7 | 5084.5 | 4922.4 | 4781.3 | 4829.8 |
| 8322.6 | 7.5° | 7865.7 | 7021.5 | 6179.3 | 5351.9 | 4501.3 | 3680.2 | 3069.7 | 2814.9 | 2621.2 | 2648.6 |
| 8383.7 | 10° | 7766.8 | 6623.6 | 5303.5 | 4040.2 | 2901.2 | 2090.7 | 1669.6 | 1513.8 | 1427.5 | 1429.6 |
| 8474.2 | 12.5° | 7691.0 | 6147.7 | 4286.6 | 2739.1 | 1766.4 | 1334.8 | 1204.3 | 1166.4 | 1141.1 | 1143.2 |
| 8611.0 | 15° | 7653.1 | 5587.7 | 3282.3 | 1825.4 | 1263.2 | 1130.6 | 1099.0 | 1082.2 | 1065.3 | 1063.2 |
| 8762.6 | 17.5° | 7589.9 | 4964.5 | 2402.2 | 1332.7 | 1105.3 | 1059.0 | 1031.6 | 1012.7 | 991.6 | 987.4 |
| 8893.2 | 20° | 7495.2 | 4257.1 | 1755.9 | 1126.4 | 1035.9 | 1000.1 | 962.2 | 936.9 | 911.6 | 907.4 |
| 8975.3 | 22.5° | 7320.4 | 3509.7 | 1349.6 | 1042.2 | 985.3 | 945.3 | 899.0 | 869.5 | 844.3 | 840.1 |
| 8935.3 | 25° | 6996.2 | 2808.6 | 1136.9 | 989.5 | 941.1 | 892.7 | 842.2 | 802.2 | 779.0 | 774.8 |
| 8849.0 | 27.5° | 6585.7 | 2206.4 | 1031.6 | 941.1 | 884.3 | 840.1 | 783.2 | 745.3 | 724.3 | 720.0 |
| 8735.3 | 30° | 6101.4 | 1699.0 | 970.6 | 886.4 | 816.9 | 779.0 | 728.5 | 696.9 | 684.3 | 684.3 |
| 8655.3 | 32.5° | 5579.3 | 1358.0 | 945.3 | 831.6 | 757.9 | 715.8 | 675.8 | 663.2 | 659.0 | 656.9 |
| 8699.5 | 35° | 5088.7 | 1179.0 | 932.7 | 787.4 | 705.3 | 665.3 | 648.5 | 650.6 | 659.0 | 659.0 |
| 8836.3 | 37.5° | 4652.9 | 1122.2 | 926.4 | 755.8 | 659.0 | 623.2 | 633.7 | 652.7 | 644.2 | 644.2 |
| 9076.3 | 40° | 4259.2 | 1128.5 | 922.2 | 732.7 | 621.1 | 600.0 | 621.1 | 606.4 | 585.3 | 583.2 |
| 9369.0 | 42.5° | 3958.1 | 1181.1 | 913.7 | 713.7 | 597.9 | 583.2 | 574.8 | 551.6 | 549.5 | 553.7 |
| 9672.2 | 45° | 3739.2 | 1227.4 | 911.6 | 705.3 | 572.7 | 545.3 | 534.8 | 511.6 | 553.7 | 564.2 |
| 9796.4 | 47.5° | 3480.2 | 1227.4 | 911.6 | 675.8 | 530.6 | 520.0 | 503.2 | 477.9 | 520.0 | 530.6 |
| 9678.5 | 50° | 3145.5 | 1149.5 | 875.8 | 642.1 | 496.9 | 490.6 | 461.1 | 429.5 | 421.1 | 427.4 |
| 9402.7 | 52.5° | 2722.3 | 1008.5 | 785.3 | 595.8 | 463.2 | 450.6 | 414.8 | 391.6 | 385.3 | 385.3 |
| 8907.9 | 55° | 2240.1 | 844.3 | 663.2 | 528.5 | 427.4 | 404.2 | 379.0 | 368.4 | 362.1 | 357.9 |
| 8215.2 | 57.5° | 1821.2 | 692.7 | 532.7 | 469.5 | 393.7 | 364.2 | 355.8 | 343.2 | 332.7 | 326.3 |
| 7636.2 | 60° | 1494.8 | 545.3 | 440.0 | 416.9 | 360.0 | 332.7 | 330.5 | 313.7 | 286.3 | 282.1 |
| 7158.3 | 62.5° | 1153.8 | 400.0 | 370.5 | 362.1 | 326.3 | 303.2 | 299.0 | 265.3 | 223.2 | 214.7 |
| 6480.4 | 65° | 814.8 | 311.6 | 299.0 | 317.9 | 290.5 | 269.5 | 259.0 | 208.4 | 164.2 | 157.9 |
| 5423.5 | 67.5° | 572.7 | 261.1 | 235.8 | 277.9 | 252.6 | 225.3 | 219.0 | 176.9 | 136.9 | 132.6 |
| 4101.3 | 70° | 408.4 | 212.6 | 193.7 | 237.9 | 202.1 | 197.9 | 185.3 | 147.4 | 111.6 | 107.4 |
| 2029.6 | 72.5° | 288.4 | 162.1 | 149.5 | 206.3 | 139.0 | 170.5 | 151.6 | 113.7 | 84.2 | 80.0 |
| 690.6 | 75° | 212.6 | 115.8 | 105.3 | 120.0 | 101.1 | 128.4 | 107.4 | 75.8 | 52.6 | 50.5 |
| 311.6 | 77.5° | 155.8 | 73.7 | 63.2 | 59.0 | 59.0 | 80.0 | 59.0 | 31.6 | 23.2 | 21.1 |
| 157.9 | 80° | 109.5 | 33.7 | 29.5 | 25.3 | 23.2 | 18.9 | 8.4 | 4.2 | 2.1 | 2.1 |
| 54.7 | 82.5° | 65.3 | 14.7 | 14.7 | 10.5 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 21.1 | 85° | 14.7 | 6.3 | 6.3 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8.4 | 87.5° | 2.1 | 2.1 | 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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