

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: P952518

Luminaire Tested: **GALN-SB6B-835-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952518
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-SB6B-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 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: 27005 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

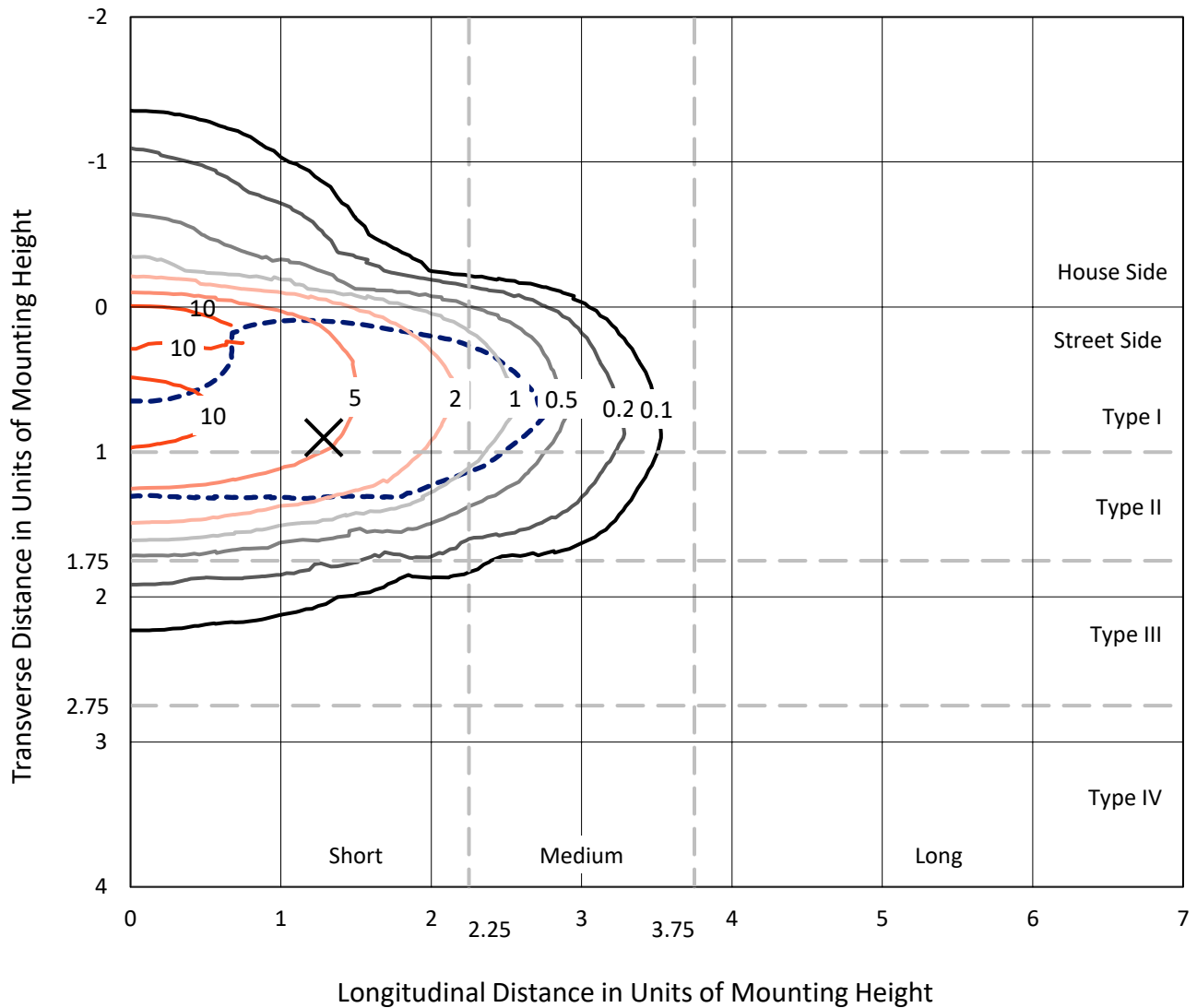
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

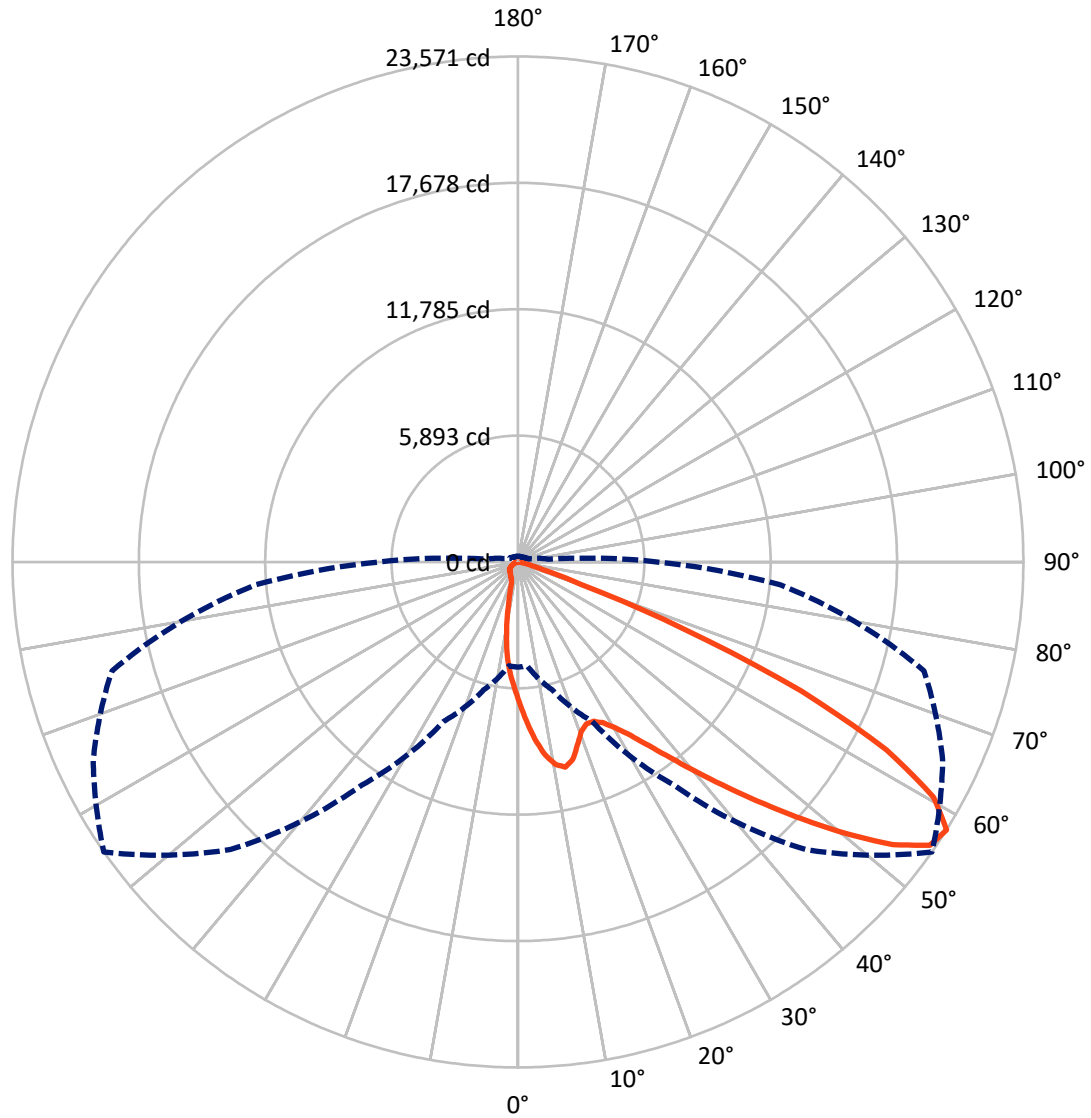
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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 | 2109.0 | 0.0 | 2109.0 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 24896.0 | 0.0 | 24896.0 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 27005.0 | 0.0 | 27005.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 605.5 | 2.2 |
| 10°-20° | 1462.6 | 5.4 |
| 20°-30° | 2340.1 | 8.7 |
| 30°-40° | 3960.7 | 14.7 |
| 40°-50° | 6502.7 | 24.1 |
| 50°-60° | 7146.9 | 26.5 |
| 60°-70° | 4099.5 | 15.2 |
| 70°-80° | 837.6 | 3.1 |
| 80°-90° | 49.4 | 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° | 27005.0 | 100.0 |
| 0°-180° | 27005.0 | 100.0 |

Coefficient of Utilization



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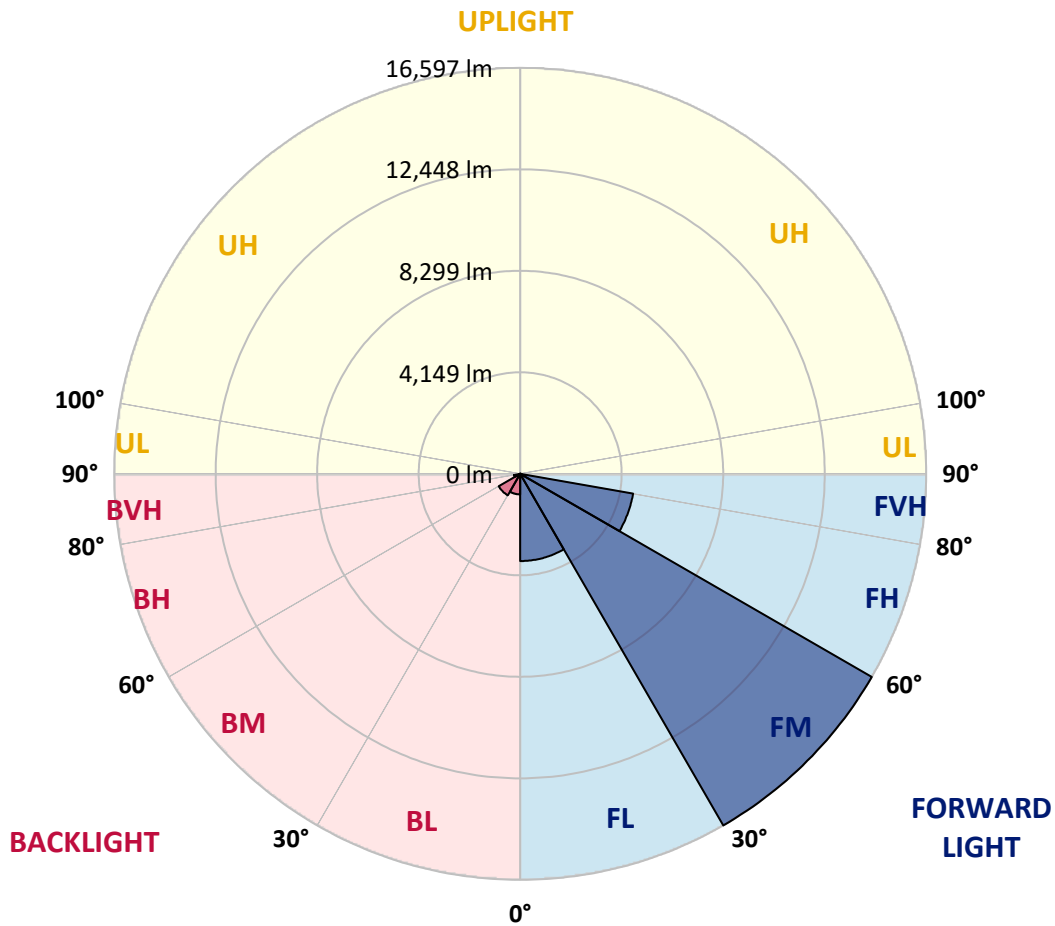
CATALOG NUMBER: GALN-SB6B-835-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3566.2 | 13.2 | | | |
| FM (30°-60°) | 16597.5 | 61.5 | | | |
| FH (60°-80°) | 4686.3 | 17.4 | | | G2/5000 |
| FVH (80°-90°) | 46.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 842.0 | 3.1 | B2/1000 | | |
| BM (30°-60°) | 1012.9 | 3.8 | B2/2500 | | |
| BH (60°-80°) | 250.8 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6507.5 | 6507.5 | 6507.5 | 6507.5 | 6507.5 | 6507.5 | 6507.5 | 6507.5 | 6507.5 | 6507.5 |
| 2.5° | 8074.5 | 7972.9 | 7957.9 | 7937.9 | 7744.8 | 7599.9 | 7390.1 | 7160.3 | 6902.2 | 6639.1 |
| 5° | 9328.4 | 9248.4 | 9233.4 | 9140.2 | 8920.4 | 8673.9 | 8300.9 | 7829.7 | 7348.5 | 6782.3 |
| 7.5° | 9571.5 | 9556.5 | 9624.8 | 9621.4 | 9591.5 | 9396.6 | 9081.9 | 8520.7 | 7798.1 | 6958.8 |
| 10° | 8487.4 | 8525.7 | 8728.9 | 8907.1 | 9388.3 | 9668.1 | 9599.8 | 9136.9 | 8261.0 | 7160.3 |
| 12.5° | 7500.0 | 7455.0 | 7599.9 | 7801.4 | 8360.9 | 9193.5 | 9814.6 | 9651.4 | 8790.5 | 7388.4 |
| 15° | 6880.5 | 6862.2 | 6943.8 | 7037.1 | 7463.4 | 8302.6 | 9564.8 | 10069.4 | 9300.1 | 7658.2 |
| 17.5° | 6682.4 | 6667.4 | 6692.4 | 6715.7 | 6992.1 | 7641.5 | 8970.3 | 10325.8 | 9788.0 | 7966.2 |
| 20° | 6843.9 | 6823.9 | 6820.6 | 6802.3 | 6917.2 | 7360.1 | 8432.5 | 10344.1 | 10225.9 | 8246.0 |
| 22.5° | 7315.2 | 7291.8 | 7210.2 | 7137.0 | 7147.0 | 7398.4 | 8192.7 | 10161.0 | 10555.6 | 8507.4 |
| 25° | 8169.4 | 8131.1 | 7961.2 | 7714.8 | 7558.3 | 7664.8 | 8229.3 | 9919.5 | 10870.3 | 8712.2 |
| 27.5° | 9238.4 | 9188.5 | 8970.3 | 8604.0 | 8246.0 | 8116.1 | 8494.1 | 9753.0 | 11131.8 | 8868.8 |
| 30° | 10285.8 | 10220.9 | 10006.1 | 9721.3 | 9198.5 | 8788.8 | 8972.0 | 9826.3 | 11443.1 | 9032.0 |
| 32.5° | 11416.5 | 11354.9 | 11070.1 | 10717.1 | 10284.2 | 9733.0 | 9626.4 | 10184.3 | 11824.5 | 9260.1 |
| 35° | 12846.9 | 12750.3 | 12345.7 | 11864.4 | 11404.8 | 10847.0 | 10512.3 | 10802.0 | 12332.4 | 9608.1 |
| 37.5° | 14475.4 | 14345.6 | 13909.3 | 13244.9 | 12645.4 | 12021.0 | 11591.3 | 11651.3 | 13076.7 | 10074.4 |
| 40° | 16010.7 | 15892.5 | 15489.5 | 14863.4 | 14110.8 | 13353.1 | 12895.2 | 12762.0 | 14104.1 | 10642.2 |
| 42.5° | 16931.6 | 16825.0 | 16655.2 | 16390.4 | 15756.0 | 14983.3 | 14405.5 | 14117.4 | 15319.7 | 11321.6 |
| 45° | 16983.2 | 16890.0 | 17118.1 | 17426.2 | 17301.3 | 16786.7 | 16082.3 | 15554.5 | 16540.3 | 11959.4 |
| 47.5° | 16157.3 | 16094.0 | 16786.7 | 17862.4 | 18398.6 | 18615.1 | 17965.7 | 16871.6 | 17547.7 | 12417.3 |
| 50° | 13906.0 | 13882.6 | 15308.0 | 17282.9 | 18816.6 | 20217.0 | 19952.2 | 18097.2 | 18328.7 | 12653.7 |
| 52.5° | 12057.6 | 11972.7 | 12803.6 | 15427.9 | 18208.8 | 21059.6 | 21893.8 | 19299.5 | 18874.9 | 12698.7 |
| 55° | 9145.2 | 9070.3 | 10112.7 | 12324.0 | 16248.9 | 20759.9 | 23314.2 | 20540.0 | 19266.2 | 12583.8 |
| 57.5° | 4905.6 | 4859.0 | 6176.2 | 8202.7 | 12702.0 | 18961.5 | 23570.7 | 21852.2 | 19595.9 | 12279.1 |
| 60° | 1910.0 | 1901.6 | 2394.5 | 3979.8 | 7719.8 | 15426.3 | 22276.8 | 22639.8 | 19802.4 | 11904.4 |
| 62.5° | 1155.6 | 1180.6 | 1260.5 | 1786.7 | 3410.3 | 9583.1 | 19294.5 | 21744.0 | 19940.6 | 11561.4 |
| 65° | 955.8 | 957.5 | 967.5 | 1227.2 | 1633.5 | 4009.8 | 14525.4 | 18796.6 | 19599.2 | 10950.3 |
| 67.5° | 819.3 | 834.3 | 872.6 | 974.1 | 1152.3 | 1758.4 | 8362.6 | 14560.4 | 17522.7 | 9528.2 |
| 70° | 646.1 | 666.1 | 714.4 | 801.0 | 889.2 | 1100.7 | 3090.6 | 9688.0 | 13386.4 | 7181.9 |
| 72.5° | 544.5 | 542.9 | 567.8 | 651.1 | 706.0 | 774.3 | 1188.9 | 5428.5 | 7779.7 | 3428.6 |
| 75° | 421.3 | 437.9 | 469.6 | 544.5 | 577.8 | 561.2 | 644.4 | 1983.2 | 2787.5 | 1039.1 |
| 77.5° | 329.7 | 343.0 | 371.3 | 444.6 | 477.9 | 398.0 | 371.3 | 709.4 | 895.9 | 373.0 |
| 80° | 148.2 | 159.9 | 253.1 | 328.0 | 389.7 | 274.8 | 201.5 | 363.0 | 398.0 | 169.8 |
| 82.5° | 26.6 | 45.0 | 148.2 | 173.2 | 199.8 | 178.2 | 104.9 | 188.2 | 194.8 | 68.3 |
| 85° | 1.7 | 3.3 | 51.6 | 63.3 | 79.9 | 58.3 | 31.6 | 74.9 | 64.9 | 23.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 | 8.3 | 10.0 | 13.3 | 10.0 | 8.3 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6507.5 | 0° | 6507.5 | 6507.5 | 6507.5 | 6507.5 | 6507.5 | 6507.5 | 6507.5 | 6507.5 | 6507.5 | 6507.5 |
| 6522.5 | 2.5° | 6402.6 | 6166.2 | 5936.4 | 5748.2 | 5638.3 | 5451.8 | 5328.6 | 5308.6 | 5257.0 | 5301.9 |
| 6539.2 | 5° | 6279.4 | 5856.5 | 5428.5 | 5045.5 | 4730.8 | 4324.5 | 4021.4 | 3893.2 | 3781.6 | 3819.9 |
| 6582.5 | 7.5° | 6221.1 | 5553.4 | 4887.3 | 4232.9 | 3560.2 | 2910.7 | 2427.8 | 2226.4 | 2073.2 | 2094.8 |
| 6630.8 | 10° | 6142.9 | 5238.7 | 4194.6 | 3195.5 | 2294.6 | 1653.5 | 1320.5 | 1197.3 | 1129.0 | 1130.7 |
| 6702.4 | 12.5° | 6082.9 | 4862.3 | 3390.3 | 2166.4 | 1397.1 | 1055.7 | 952.5 | 922.5 | 902.5 | 904.2 |
| 6810.6 | 15° | 6052.9 | 4419.4 | 2596.0 | 1443.7 | 999.1 | 894.2 | 869.2 | 855.9 | 842.6 | 840.9 |
| 6930.5 | 17.5° | 6003.0 | 3926.5 | 1900.0 | 1054.1 | 874.2 | 837.6 | 815.9 | 801.0 | 784.3 | 781.0 |
| 7033.7 | 20° | 5928.1 | 3367.0 | 1388.8 | 890.9 | 819.3 | 791.0 | 761.0 | 741.0 | 721.0 | 717.7 |
| 7098.7 | 22.5° | 5789.8 | 2775.9 | 1067.4 | 824.3 | 779.3 | 747.7 | 711.0 | 687.7 | 667.7 | 664.4 |
| 7067.0 | 25° | 5533.4 | 2221.4 | 899.2 | 782.6 | 744.3 | 706.0 | 666.1 | 634.4 | 616.1 | 612.8 |
| 6998.8 | 27.5° | 5208.7 | 1745.1 | 815.9 | 744.3 | 699.4 | 664.4 | 619.4 | 589.5 | 572.8 | 569.5 |
| 6908.8 | 30° | 4825.7 | 1343.8 | 767.6 | 701.0 | 646.1 | 616.1 | 576.2 | 551.2 | 541.2 | 541.2 |
| 6845.6 | 32.5° | 4412.7 | 1074.0 | 747.7 | 657.7 | 599.5 | 566.2 | 534.5 | 524.5 | 521.2 | 519.5 |
| 6880.5 | 35° | 4024.7 | 932.5 | 737.7 | 622.8 | 557.8 | 526.2 | 512.9 | 514.5 | 521.2 | 521.2 |
| 6988.8 | 37.5° | 3680.1 | 887.5 | 732.7 | 597.8 | 521.2 | 492.9 | 501.2 | 516.2 | 509.5 | 509.5 |
| 7178.6 | 40° | 3368.7 | 892.5 | 729.4 | 579.5 | 491.2 | 474.6 | 491.2 | 479.6 | 462.9 | 461.3 |
| 7410.1 | 42.5° | 3130.5 | 934.2 | 722.7 | 564.5 | 472.9 | 461.3 | 454.6 | 436.3 | 434.6 | 437.9 |
| 7649.9 | 45° | 2957.4 | 970.8 | 721.0 | 557.8 | 452.9 | 431.3 | 423.0 | 404.6 | 437.9 | 446.3 |
| 7748.1 | 47.5° | 2752.5 | 970.8 | 721.0 | 534.5 | 419.6 | 411.3 | 398.0 | 378.0 | 411.3 | 419.6 |
| 7654.9 | 50° | 2487.8 | 909.2 | 692.7 | 507.9 | 393.0 | 388.0 | 364.7 | 339.7 | 333.0 | 338.0 |
| 7436.7 | 52.5° | 2153.1 | 797.6 | 621.1 | 471.2 | 366.3 | 356.3 | 328.0 | 309.7 | 304.7 | 304.7 |
| 7045.4 | 55° | 1771.8 | 667.7 | 524.5 | 418.0 | 338.0 | 319.7 | 299.7 | 291.4 | 286.4 | 283.1 |
| 6497.5 | 57.5° | 1440.4 | 547.8 | 421.3 | 371.3 | 311.4 | 288.1 | 281.4 | 271.4 | 263.1 | 258.1 |
| 6039.6 | 60° | 1182.3 | 431.3 | 348.0 | 329.7 | 284.7 | 263.1 | 261.4 | 248.1 | 226.5 | 223.1 |
| 5661.6 | 62.5° | 912.5 | 316.4 | 293.1 | 286.4 | 258.1 | 239.8 | 236.5 | 209.8 | 176.5 | 169.8 |
| 5125.4 | 65° | 644.4 | 246.4 | 236.5 | 251.4 | 229.8 | 213.1 | 204.8 | 164.9 | 129.9 | 124.9 |
| 4289.5 | 67.5° | 452.9 | 206.5 | 186.5 | 219.8 | 199.8 | 178.2 | 173.2 | 139.9 | 108.2 | 104.9 |
| 3243.8 | 70° | 323.0 | 168.2 | 153.2 | 188.2 | 159.9 | 156.5 | 146.5 | 116.6 | 88.3 | 84.9 |
| 1605.2 | 72.5° | 228.1 | 128.2 | 118.2 | 163.2 | 109.9 | 134.9 | 119.9 | 89.9 | 66.6 | 63.3 |
| 546.2 | 75° | 168.2 | 91.6 | 83.3 | 94.9 | 79.9 | 101.6 | 84.9 | 59.9 | 41.6 | 40.0 |
| 246.4 | 77.5° | 123.2 | 58.3 | 50.0 | 46.6 | 46.6 | 63.3 | 46.6 | 25.0 | 18.3 | 16.7 |
| 124.9 | 80° | 86.6 | 26.6 | 23.3 | 20.0 | 18.3 | 15.0 | 6.7 | 3.3 | 1.7 | 1.7 |
| 43.3 | 82.5° | 51.6 | 11.7 | 11.7 | 8.3 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 16.7 | 85° | 11.7 | 5.0 | 5.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6.7 | 87.5° | 1.7 | 1.7 | 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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