

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: P952749

Luminaire Tested: **GALN-SB6C-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952749
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-SB6C-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA 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: 38721 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

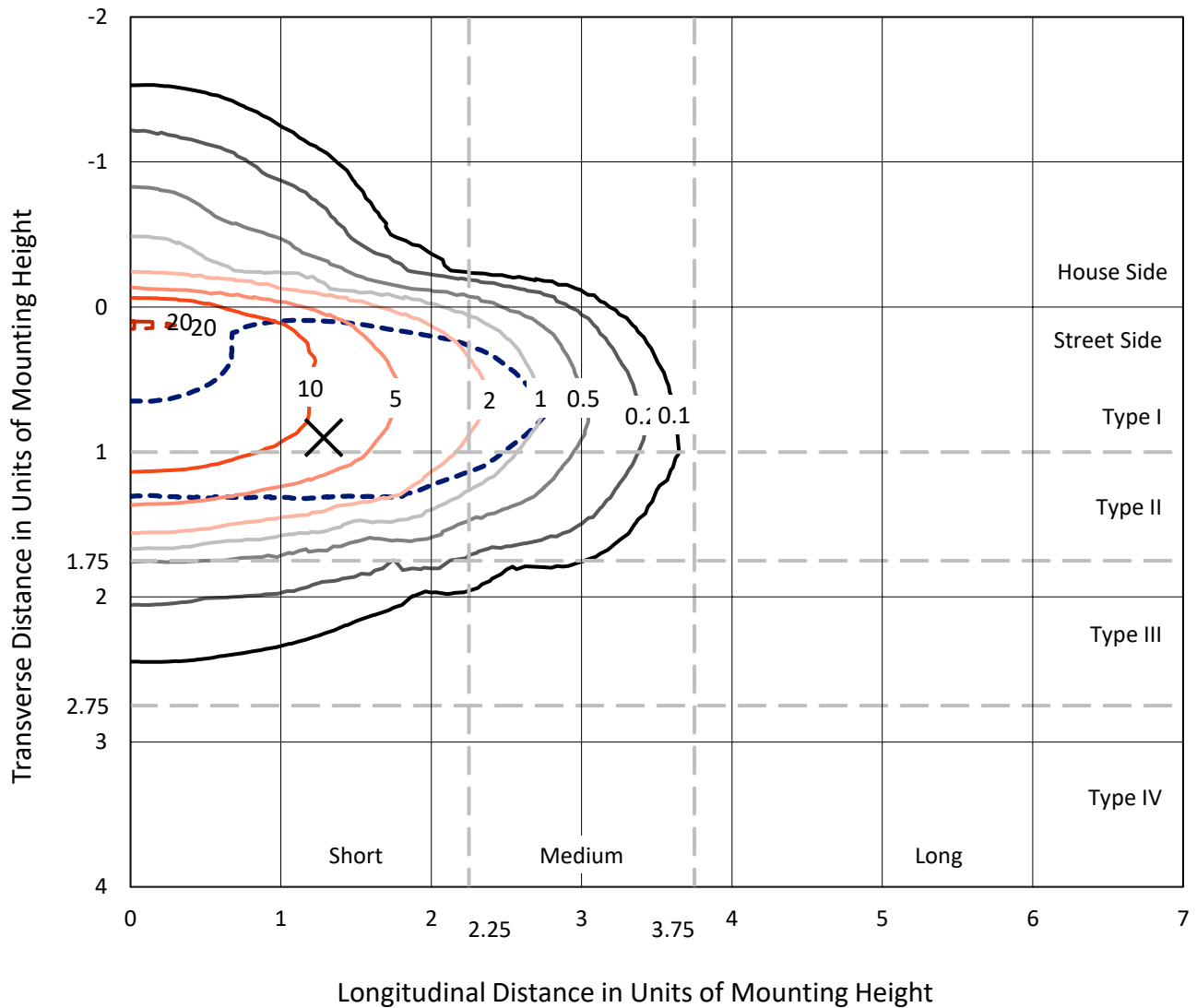
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

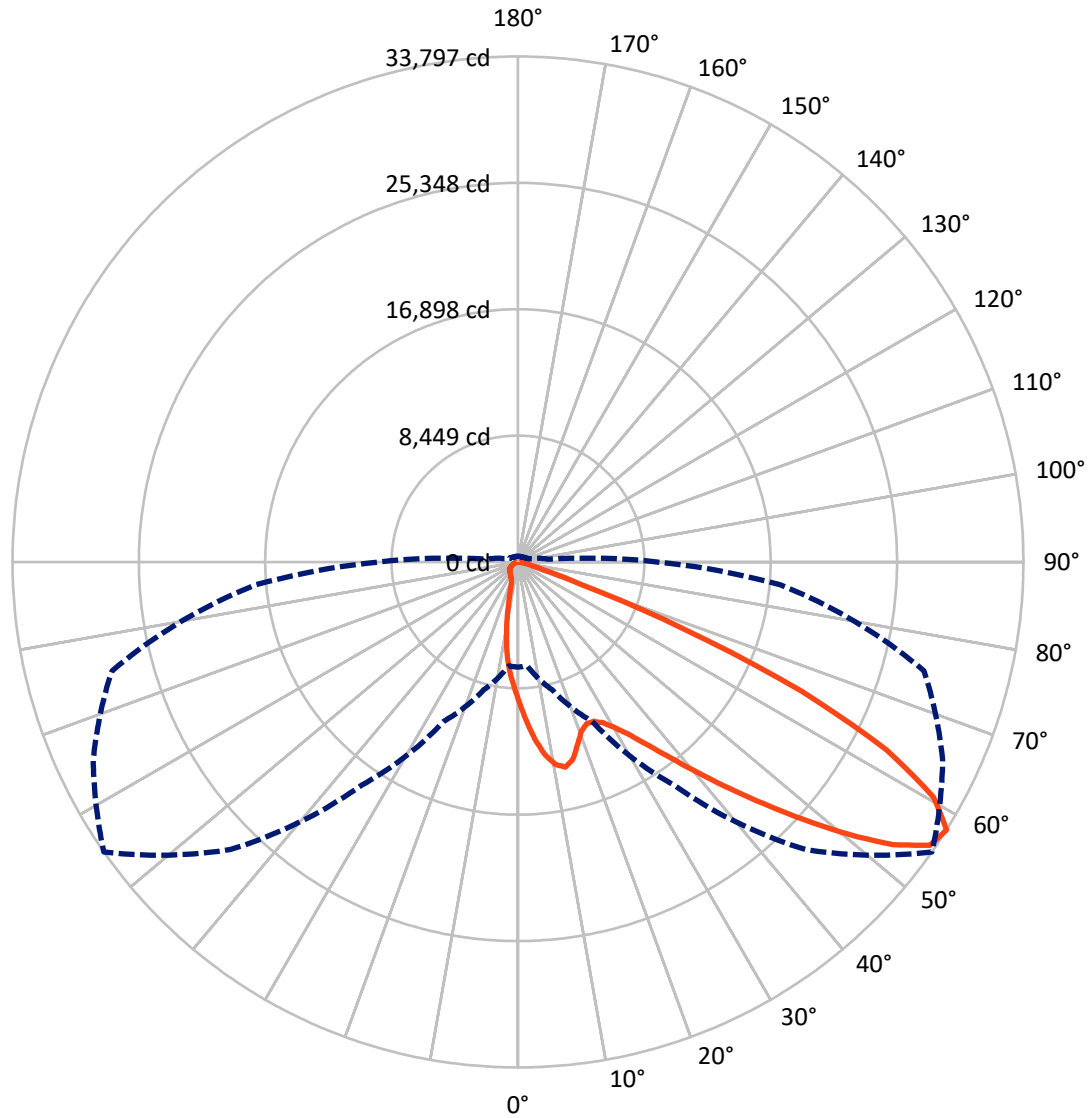
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 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 | 3024.0 | 0.0 | 3024.0 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 35697.1 | 0.0 | 35697.1 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 38721.0 | 0.0 | 38721.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 868.2 | 2.2 |
| 10°-20° | 2097.1 | 5.4 |
| 20°-30° | 3355.3 | 8.7 |
| 30°-40° | 5679.1 | 14.7 |
| 40°-50° | 9323.8 | 24.1 |
| 50°-60° | 10247.6 | 26.5 |
| 60°-70° | 5878.0 | 15.2 |
| 70°-80° | 1201.0 | 3.1 |
| 80°-90° | 70.8 | 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° | 38721.0 | 100.0 |
| 0°-180° | 38721.0 | 100.0 |

Coefficient of Utilization



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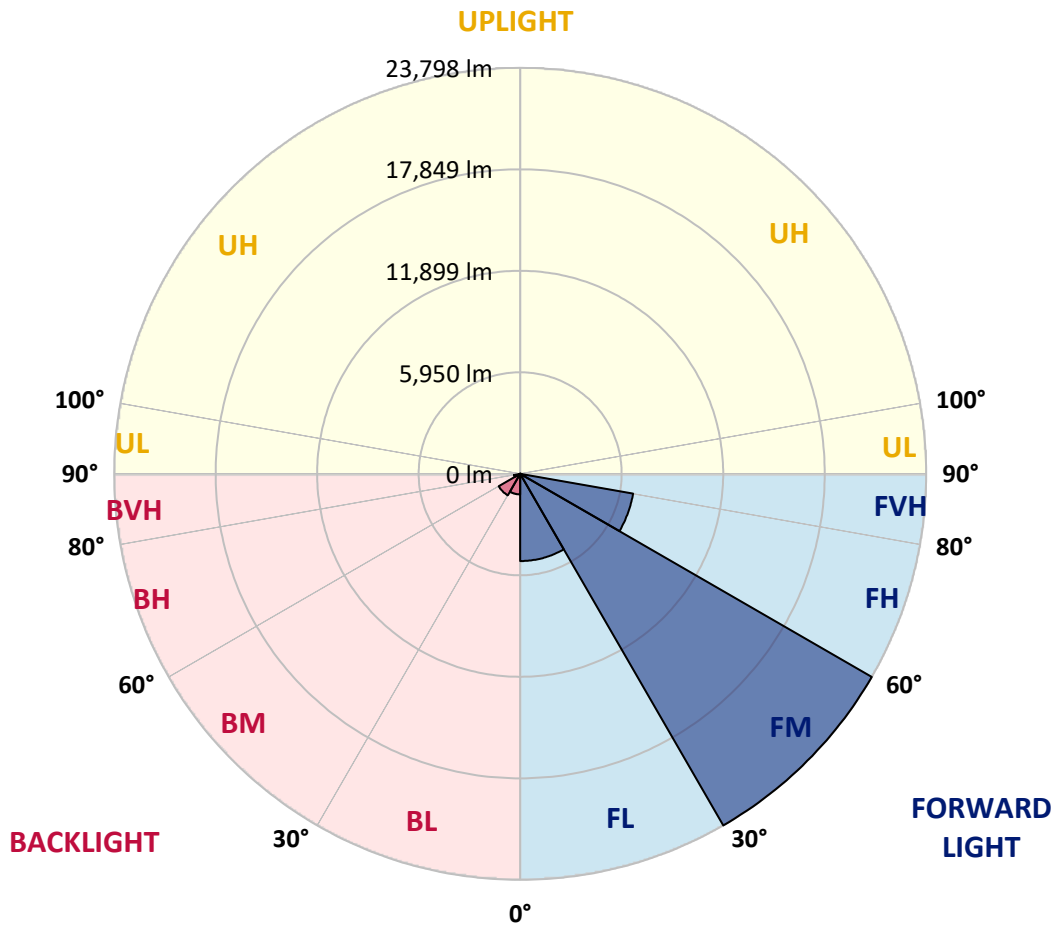
CATALOG NUMBER: GALN-SB6C-735-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5113.3 | 13.2 | | | |
| FM (30°-60°) | 23798.2 | 61.5 | | | |
| FH (60°-80°) | 6719.4 | 17.4 | | | G3/7500 |
| FVH (80°-90°) | 66.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1207.2 | 3.1 | B3/2500 | | |
| BM (30°-60°) | 1452.3 | 3.8 | B2/2500 | | |
| BH (60°-80°) | 359.6 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.8 | 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° | 9330.8 | 9330.8 | 9330.8 | 9330.8 | 9330.8 | 9330.8 | 9330.8 | 9330.8 | 9330.8 | 9330.8 |
| 2.5° | 11577.6 | 11431.9 | 11410.4 | 11381.8 | 11104.8 | 10897.1 | 10596.2 | 10266.8 | 9896.7 | 9519.4 |
| 5° | 13375.4 | 13260.8 | 13239.3 | 13105.6 | 12790.5 | 12437.1 | 11902.3 | 11226.6 | 10536.6 | 9724.8 |
| 7.5° | 13724.0 | 13702.5 | 13800.4 | 13795.7 | 13752.7 | 13473.3 | 13022.1 | 12217.4 | 11181.2 | 9977.9 |
| 10° | 12169.7 | 12224.6 | 12515.9 | 12771.4 | 13461.4 | 13862.5 | 13764.6 | 13100.9 | 11845.0 | 10266.8 |
| 12.5° | 10753.8 | 10689.4 | 10897.1 | 11186.0 | 11988.2 | 13182.0 | 14072.6 | 13838.6 | 12604.2 | 10593.9 |
| 15° | 9865.6 | 9839.4 | 9956.4 | 10090.1 | 10701.3 | 11904.7 | 13714.5 | 14437.9 | 13334.8 | 10980.6 |
| 17.5° | 9581.5 | 9560.0 | 9595.8 | 9629.3 | 10025.6 | 10956.8 | 12862.1 | 14805.6 | 14034.4 | 11422.4 |
| 20° | 9813.1 | 9784.5 | 9779.7 | 9753.4 | 9918.2 | 10553.3 | 12090.9 | 14831.9 | 14662.4 | 11823.5 |
| 22.5° | 10488.8 | 10455.4 | 10338.4 | 10233.3 | 10247.7 | 10608.2 | 11747.1 | 14569.2 | 15135.1 | 12198.3 |
| 25° | 11713.6 | 11658.7 | 11415.2 | 11061.8 | 10837.4 | 10990.2 | 11799.6 | 14223.0 | 15586.4 | 12492.0 |
| 27.5° | 13246.5 | 13174.9 | 12862.1 | 12336.8 | 11823.5 | 11637.2 | 12179.2 | 13984.3 | 15961.2 | 12716.4 |
| 30° | 14748.3 | 14655.2 | 14347.2 | 13938.9 | 13189.2 | 12601.8 | 12864.5 | 14089.3 | 16407.7 | 12950.4 |
| 32.5° | 16369.5 | 16281.2 | 15872.9 | 15366.7 | 14745.9 | 13955.6 | 13802.8 | 14602.7 | 16954.5 | 13277.5 |
| 35° | 18420.5 | 18282.0 | 17701.8 | 17011.8 | 16352.8 | 15552.9 | 15073.0 | 15488.5 | 17682.7 | 13776.5 |
| 37.5° | 20755.6 | 20569.3 | 19943.8 | 18991.1 | 18131.6 | 17236.2 | 16620.2 | 16706.2 | 18750.0 | 14445.1 |
| 40° | 22956.9 | 22787.4 | 22209.6 | 21311.9 | 20232.7 | 19146.3 | 18489.7 | 18298.7 | 20223.1 | 15259.3 |
| 42.5° | 24277.3 | 24124.5 | 23880.9 | 23501.3 | 22591.6 | 21483.8 | 20655.3 | 20242.2 | 21966.1 | 16233.4 |
| 45° | 24351.3 | 24217.6 | 24544.7 | 24986.4 | 24807.3 | 24069.6 | 23059.6 | 22302.7 | 23716.2 | 17147.9 |
| 47.5° | 23167.0 | 23076.3 | 24069.6 | 25612.0 | 26380.8 | 26691.2 | 25760.0 | 24191.3 | 25160.7 | 17804.5 |
| 50° | 19939.0 | 19905.6 | 21949.4 | 24781.1 | 26980.1 | 28988.1 | 28608.4 | 25948.6 | 26280.5 | 18143.5 |
| 52.5° | 17288.7 | 17167.0 | 18358.4 | 22121.3 | 26108.6 | 30196.2 | 31392.4 | 27672.5 | 27063.6 | 18208.0 |
| 55° | 13112.8 | 13005.3 | 14500.0 | 17670.8 | 23298.4 | 29766.4 | 33429.0 | 29451.3 | 27624.7 | 18043.2 |
| 57.5° | 7033.9 | 6967.1 | 8855.7 | 11761.4 | 18212.7 | 27187.8 | 33796.7 | 31332.7 | 28097.5 | 17606.3 |
| 60° | 2738.6 | 2726.7 | 3433.4 | 5706.4 | 11069.0 | 22118.9 | 31941.5 | 32462.0 | 28393.5 | 17069.1 |
| 62.5° | 1657.0 | 1692.8 | 1807.4 | 2561.9 | 4889.8 | 13740.7 | 27665.3 | 31177.5 | 28591.7 | 16577.2 |
| 65° | 1370.5 | 1372.9 | 1387.2 | 1759.7 | 2342.3 | 5749.4 | 20827.2 | 26951.4 | 28102.3 | 15701.0 |
| 67.5° | 1174.7 | 1196.2 | 1251.1 | 1396.8 | 1652.2 | 2521.3 | 11990.6 | 20877.3 | 25124.9 | 13661.9 |
| 70° | 926.4 | 955.0 | 1024.3 | 1148.4 | 1275.0 | 1578.2 | 4431.4 | 13891.2 | 19194.1 | 10297.8 |
| 72.5° | 780.8 | 778.4 | 814.2 | 933.6 | 1012.3 | 1110.2 | 1704.8 | 7783.6 | 11154.9 | 4916.1 |
| 75° | 604.1 | 627.9 | 673.3 | 780.8 | 828.5 | 804.6 | 924.0 | 2843.7 | 3996.9 | 1489.9 |
| 77.5° | 472.7 | 491.8 | 532.4 | 637.5 | 685.2 | 570.6 | 532.4 | 1017.1 | 1284.5 | 534.8 |
| 80° | 212.5 | 229.2 | 362.9 | 470.4 | 558.7 | 394.0 | 288.9 | 520.5 | 570.6 | 243.5 |
| 82.5° | 38.2 | 64.5 | 212.5 | 248.3 | 286.5 | 255.5 | 150.4 | 269.8 | 279.4 | 97.9 |
| 85° | 2.4 | 4.8 | 74.0 | 90.7 | 114.6 | 83.6 | 45.4 | 107.4 | 93.1 | 33.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.4 | 2.4 | 11.9 | 14.3 | 19.1 | 14.3 | 11.9 |
| 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° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9330.8 | 0° | 9330.8 | 9330.8 | 9330.8 | 9330.8 | 9330.8 | 9330.8 | 9330.8 | 9330.8 | 9330.8 | 9330.8 |
| 9352.3 | 2.5° | 9180.4 | 8841.3 | 8511.9 | 8242.1 | 8084.5 | 7817.1 | 7640.4 | 7611.7 | 7537.7 | 7602.2 |
| 9376.2 | 5° | 9003.7 | 8397.2 | 7783.6 | 7234.5 | 6783.2 | 6200.6 | 5766.1 | 5582.2 | 5422.3 | 5477.2 |
| 9438.2 | 7.5° | 8920.1 | 7962.7 | 7007.7 | 6069.3 | 5104.7 | 4173.6 | 3481.1 | 3192.2 | 2972.6 | 3003.6 |
| 9507.5 | 10° | 8807.9 | 7511.4 | 6014.4 | 4581.8 | 3290.1 | 2370.9 | 1893.4 | 1716.7 | 1618.8 | 1621.2 |
| 9610.2 | 12.5° | 8722.0 | 6971.8 | 4861.2 | 3106.3 | 2003.2 | 1513.7 | 1365.7 | 1322.7 | 1294.1 | 1296.5 |
| 9765.4 | 15° | 8679.0 | 6336.7 | 3722.3 | 2070.1 | 1432.6 | 1282.2 | 1246.3 | 1227.2 | 1208.1 | 1205.7 |
| 9937.3 | 17.5° | 8607.4 | 5630.0 | 2724.3 | 1511.4 | 1253.5 | 1201.0 | 1169.9 | 1148.4 | 1124.6 | 1119.8 |
| 10085.3 | 20° | 8499.9 | 4827.8 | 1991.3 | 1277.4 | 1174.7 | 1134.1 | 1091.1 | 1062.5 | 1033.8 | 1029.1 |
| 10178.4 | 22.5° | 8301.7 | 3980.2 | 1530.5 | 1181.9 | 1117.4 | 1072.0 | 1019.5 | 986.1 | 957.4 | 952.7 |
| 10133.0 | 25° | 7934.1 | 3185.1 | 1289.3 | 1122.2 | 1067.3 | 1012.3 | 955.0 | 909.7 | 883.4 | 878.6 |
| 10035.2 | 27.5° | 7468.5 | 2502.2 | 1169.9 | 1067.3 | 1002.8 | 952.7 | 888.2 | 845.2 | 821.3 | 816.6 |
| 9906.2 | 30° | 6919.3 | 1926.8 | 1100.7 | 1005.2 | 926.4 | 883.4 | 826.1 | 790.3 | 776.0 | 776.0 |
| 9815.5 | 32.5° | 6327.2 | 1540.0 | 1072.0 | 943.1 | 859.5 | 811.8 | 766.4 | 752.1 | 747.3 | 744.9 |
| 9865.6 | 35° | 5770.9 | 1337.1 | 1057.7 | 893.0 | 799.9 | 754.5 | 735.4 | 737.8 | 747.3 | 747.3 |
| 10020.8 | 37.5° | 5276.6 | 1272.6 | 1050.6 | 857.2 | 747.3 | 706.7 | 718.7 | 740.2 | 730.6 | 730.6 |
| 10293.0 | 40° | 4830.1 | 1279.8 | 1045.8 | 830.9 | 704.3 | 680.5 | 704.3 | 687.6 | 663.8 | 661.4 |
| 10624.9 | 42.5° | 4488.7 | 1339.5 | 1036.2 | 809.4 | 678.1 | 661.4 | 651.8 | 625.6 | 623.2 | 627.9 |
| 10968.7 | 45° | 4240.4 | 1392.0 | 1033.8 | 799.9 | 649.4 | 618.4 | 606.5 | 580.2 | 627.9 | 639.9 |
| 11109.6 | 47.5° | 3946.7 | 1392.0 | 1033.8 | 766.4 | 601.7 | 589.7 | 570.6 | 542.0 | 589.7 | 601.7 |
| 10975.9 | 50° | 3567.1 | 1303.6 | 993.2 | 728.2 | 563.5 | 556.3 | 522.9 | 487.1 | 477.5 | 484.7 |
| 10663.1 | 52.5° | 3087.2 | 1143.7 | 890.6 | 675.7 | 525.3 | 511.0 | 470.4 | 444.1 | 436.9 | 436.9 |
| 10102.0 | 55° | 2540.4 | 957.4 | 752.1 | 599.3 | 484.7 | 458.4 | 429.8 | 417.8 | 410.7 | 405.9 |
| 9316.5 | 57.5° | 2065.3 | 785.5 | 604.1 | 532.4 | 446.5 | 413.1 | 403.5 | 389.2 | 377.2 | 370.1 |
| 8659.9 | 60° | 1695.2 | 618.4 | 499.0 | 472.7 | 408.3 | 377.2 | 374.9 | 355.8 | 324.7 | 319.9 |
| 8117.9 | 62.5° | 1308.4 | 453.6 | 420.2 | 410.7 | 370.1 | 343.8 | 339.0 | 300.8 | 253.1 | 243.5 |
| 7349.1 | 65° | 924.0 | 353.4 | 339.0 | 360.5 | 329.5 | 305.6 | 293.7 | 236.4 | 186.2 | 179.1 |
| 6150.5 | 67.5° | 649.4 | 296.1 | 267.4 | 315.2 | 286.5 | 255.5 | 248.3 | 200.6 | 155.2 | 150.4 |
| 4651.1 | 70° | 463.2 | 241.1 | 219.7 | 269.8 | 229.2 | 224.4 | 210.1 | 167.1 | 126.5 | 121.8 |
| 2301.7 | 72.5° | 327.1 | 183.8 | 169.5 | 234.0 | 157.6 | 193.4 | 171.9 | 128.9 | 95.5 | 90.7 |
| 783.1 | 75° | 241.1 | 131.3 | 119.4 | 136.1 | 114.6 | 145.6 | 121.8 | 86.0 | 59.7 | 57.3 |
| 353.4 | 77.5° | 176.7 | 83.6 | 71.6 | 66.9 | 66.9 | 90.7 | 66.9 | 35.8 | 26.3 | 23.9 |
| 179.1 | 80° | 124.2 | 38.2 | 33.4 | 28.7 | 26.3 | 21.5 | 9.6 | 4.8 | 2.4 | 2.4 |
| 62.1 | 82.5° | 74.0 | 16.7 | 16.7 | 11.9 | 7.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 23.9 | 85° | 16.7 | 7.2 | 7.2 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 9.6 | 87.5° | 2.4 | 2.4 | 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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