

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: P955416

Luminaire Tested: **GALN-SB8B-850-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955416
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-SB8B-850-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 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: 37135 lumens
Efficiency: N/A
Efficacy: 126.8 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

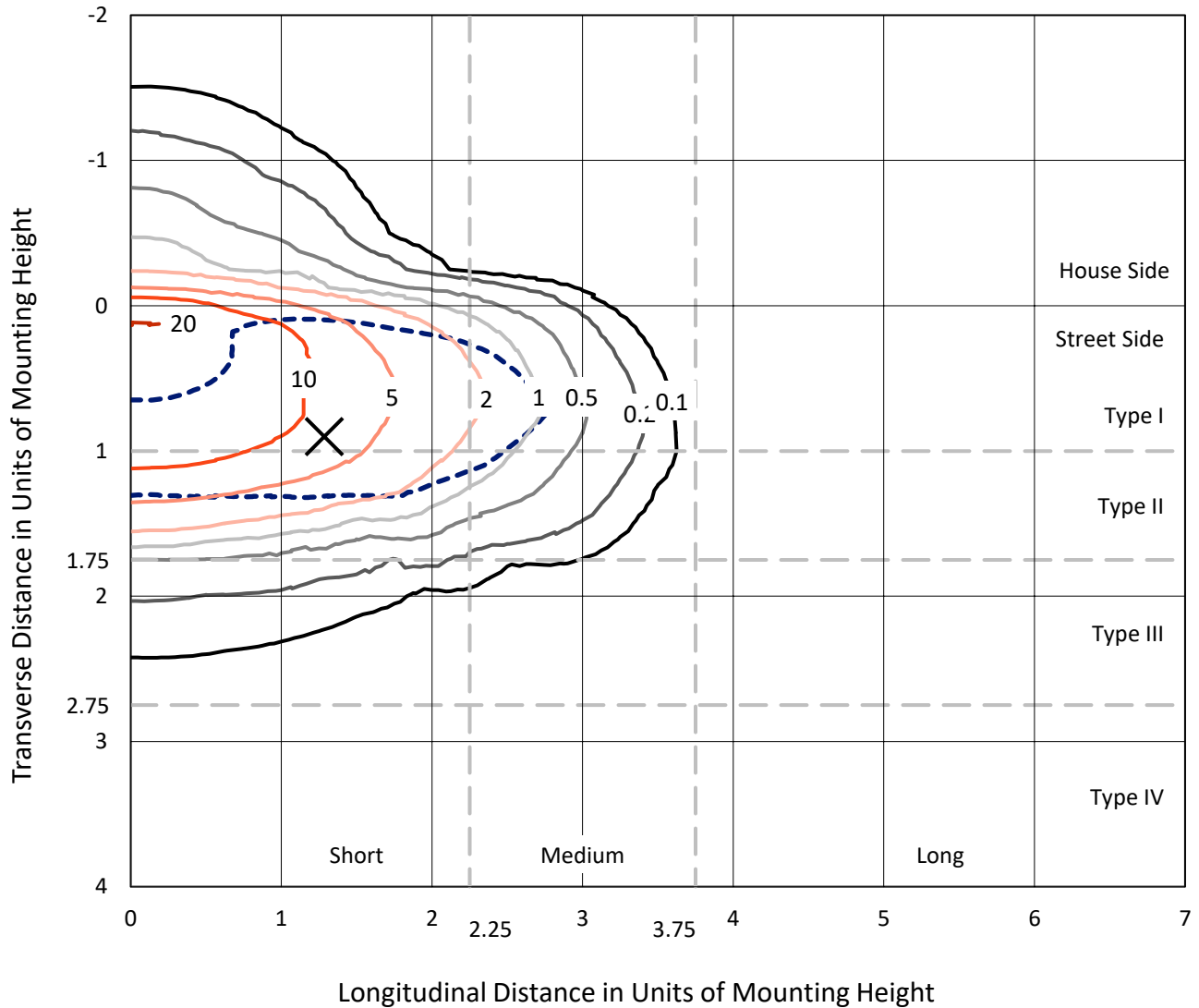
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

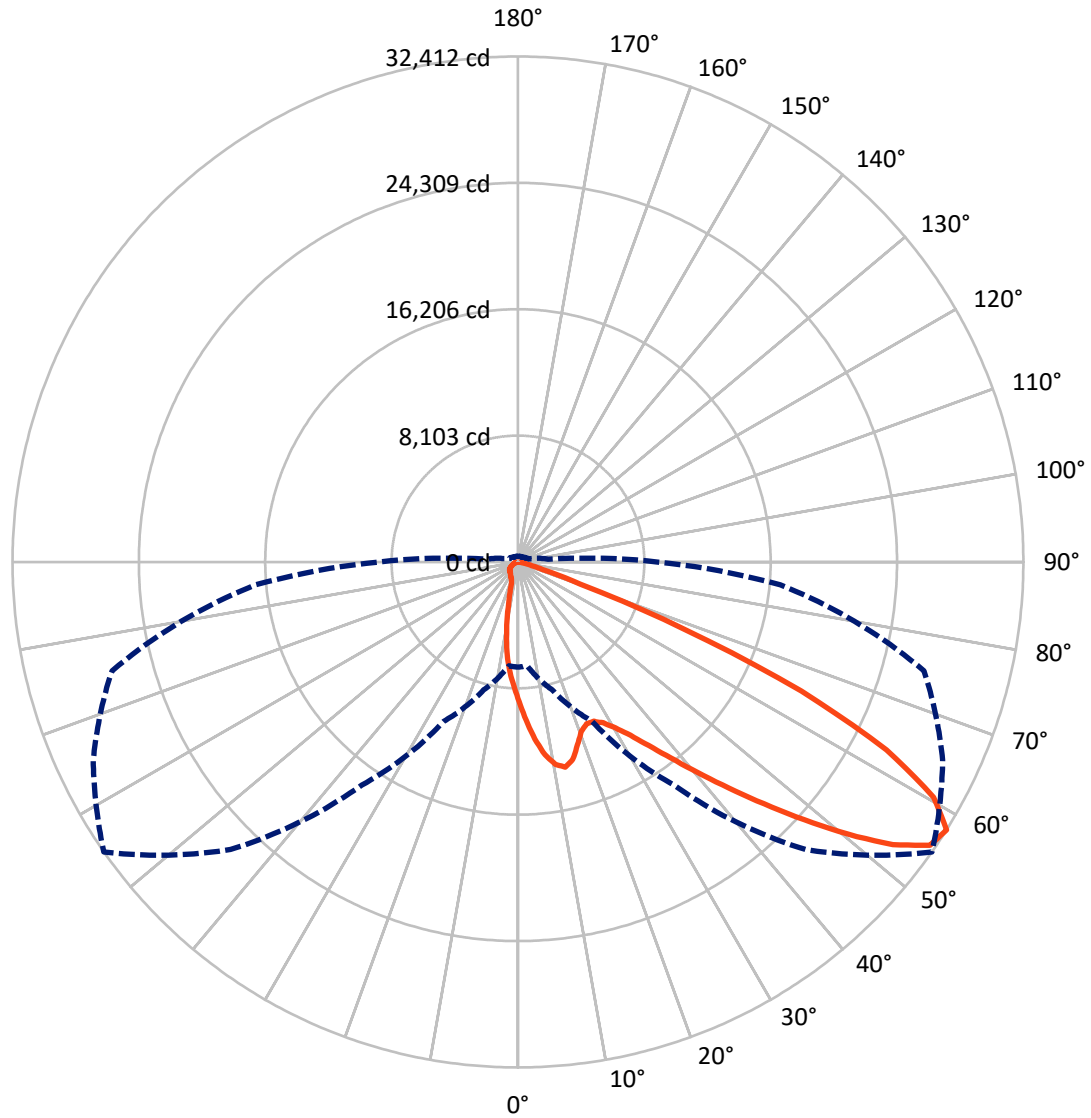
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 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 | 2900.1 | 0.0 | 2900.1 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 34234.9 | 0.0 | 34234.9 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 37135.0 | 0.0 | 37135.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 832.6 | 2.2 |
| 10°-20° | 2011.2 | 5.4 |
| 20°-30° | 3217.9 | 8.7 |
| 30°-40° | 5446.5 | 14.7 |
| 40°-50° | 8941.9 | 24.1 |
| 50°-60° | 9827.8 | 26.5 |
| 60°-70° | 5637.3 | 15.2 |
| 70°-80° | 1151.9 | 3.1 |
| 80°-90° | 67.9 | 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° | 37135.0 | 100.0 |
| 0°-180° | 37135.0 | 100.0 |

Coefficient of Utilization



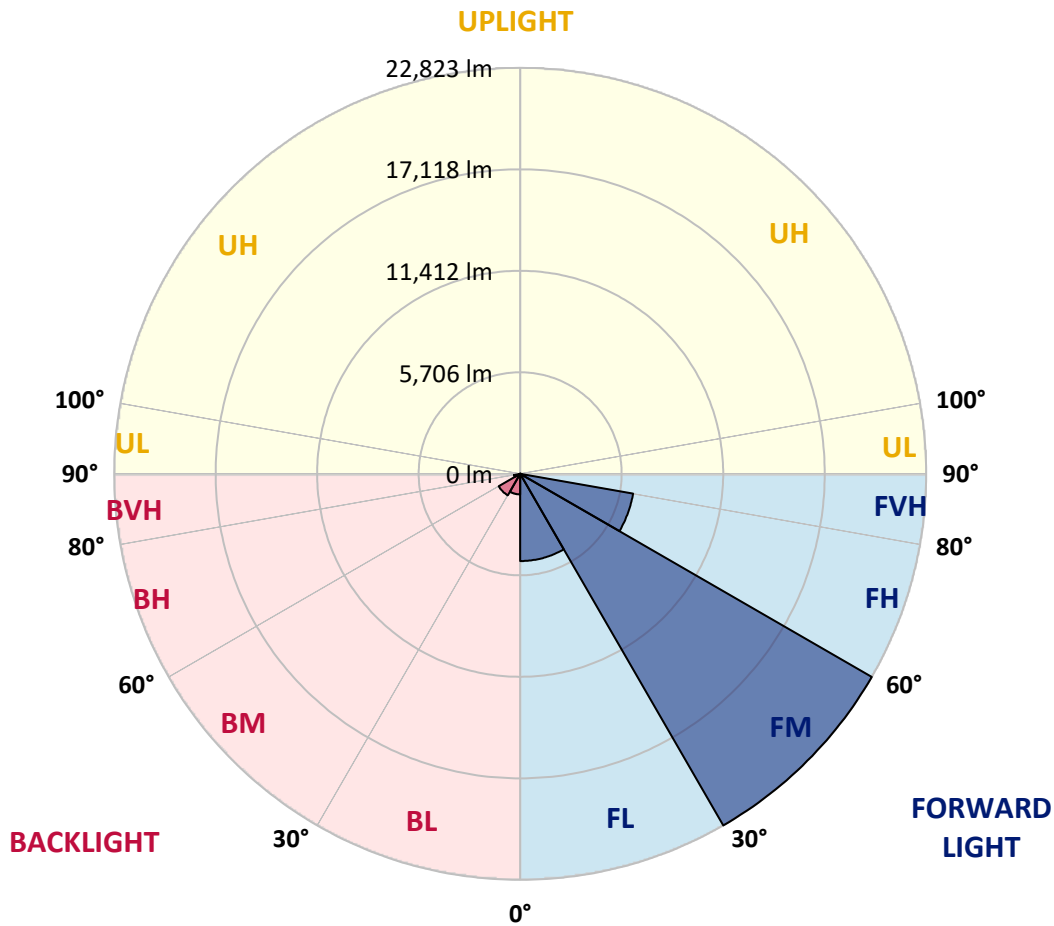
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4903.9 | 13.2 | | | |
| FM (30°-60°) | 22823.4 | 61.5 | | | |
| FH (60°-80°) | 6444.2 | 17.4 | | | G3/7500 |
| FVH (80°-90°) | 63.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1157.8 | 3.1 | B3/2500 | | |
| BM (30°-60°) | 1392.8 | 3.8 | B2/2500 | | |
| BH (60°-80°) | 344.9 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.6 | 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-G3

Type II Short



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CATALOG NUMBER: GALN-SB8B-850-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8948.6 | 8948.6 | 8948.6 | 8948.6 | 8948.6 | 8948.6 | 8948.6 | 8948.6 | 8948.6 | 8948.6 |
| 2.5° | 11103.3 | 10963.7 | 10943.1 | 10915.6 | 10650.0 | 10450.7 | 10162.2 | 9846.2 | 9491.3 | 9129.5 |
| 5° | 12827.6 | 12717.7 | 12697.1 | 12568.8 | 12266.6 | 11927.7 | 11414.8 | 10766.7 | 10105.0 | 9326.4 |
| 7.5° | 13161.9 | 13141.3 | 13235.2 | 13230.6 | 13189.4 | 12921.5 | 12488.7 | 11717.0 | 10723.2 | 9569.2 |
| 10° | 11671.2 | 11723.9 | 12003.2 | 12248.3 | 12910.0 | 13294.7 | 13200.8 | 12564.2 | 11359.8 | 9846.2 |
| 12.5° | 10313.4 | 10251.5 | 10450.7 | 10727.8 | 11497.2 | 12642.1 | 13496.2 | 13271.8 | 12088.0 | 10159.9 |
| 15° | 9461.5 | 9436.4 | 9548.6 | 9676.8 | 10263.0 | 11417.0 | 13152.7 | 13846.5 | 12788.6 | 10530.9 |
| 17.5° | 9189.1 | 9168.4 | 9202.8 | 9234.8 | 9615.0 | 10508.0 | 12335.3 | 14199.2 | 13459.6 | 10954.5 |
| 20° | 9411.2 | 9383.7 | 9379.1 | 9353.9 | 9511.9 | 10121.0 | 11595.7 | 14224.4 | 14061.8 | 11339.2 |
| 22.5° | 10059.2 | 10027.1 | 9914.9 | 9814.2 | 9827.9 | 10173.7 | 11265.9 | 13972.5 | 14515.2 | 11698.7 |
| 25° | 11233.9 | 11181.2 | 10947.6 | 10608.7 | 10393.5 | 10540.0 | 11316.3 | 13640.5 | 14948.0 | 11980.3 |
| 27.5° | 12703.9 | 12635.2 | 12335.3 | 11831.5 | 11339.2 | 11160.6 | 11680.4 | 13411.5 | 15307.5 | 12195.6 |
| 30° | 14144.2 | 14054.9 | 13759.5 | 13368.0 | 12649.0 | 12085.7 | 12337.6 | 13512.2 | 15735.6 | 12420.0 |
| 32.5° | 15699.0 | 15614.3 | 15222.7 | 14737.3 | 14141.9 | 13384.0 | 13237.5 | 14004.5 | 16260.0 | 12733.7 |
| 35° | 17666.0 | 17533.2 | 16976.7 | 16315.0 | 15683.0 | 14915.9 | 14455.6 | 14854.1 | 16958.4 | 13212.3 |
| 37.5° | 19905.4 | 19726.8 | 19126.9 | 18213.2 | 17388.9 | 16530.2 | 15939.4 | 16021.9 | 17982.0 | 13853.4 |
| 40° | 22016.6 | 21854.0 | 21299.9 | 20438.9 | 19403.9 | 18362.1 | 17732.4 | 17549.2 | 19394.8 | 14634.2 |
| 42.5° | 23282.9 | 23136.3 | 22902.8 | 22538.7 | 21666.3 | 20603.8 | 19809.2 | 19413.1 | 21066.4 | 15568.5 |
| 45° | 23353.9 | 23225.7 | 23539.4 | 23963.0 | 23791.2 | 23083.7 | 22115.1 | 21389.2 | 22744.8 | 16445.5 |
| 47.5° | 22218.1 | 22131.1 | 23083.7 | 24562.9 | 25300.2 | 25597.9 | 24704.9 | 23200.5 | 24130.1 | 17075.2 |
| 50° | 19122.3 | 19090.2 | 21050.3 | 23766.1 | 25875.0 | 27800.7 | 27436.6 | 24885.8 | 25204.1 | 17400.3 |
| 52.5° | 16580.6 | 16463.8 | 17606.4 | 21215.2 | 25039.2 | 28959.4 | 30106.6 | 26539.0 | 25955.1 | 17462.2 |
| 55° | 12575.7 | 12472.7 | 13906.1 | 16947.0 | 22344.1 | 28547.2 | 32059.8 | 28244.9 | 26493.2 | 17304.2 |
| 57.5° | 6745.8 | 6681.7 | 8492.9 | 11279.7 | 17466.8 | 26074.2 | 32412.4 | 30049.3 | 26946.6 | 16885.1 |
| 60° | 2626.4 | 2615.0 | 3292.8 | 5472.7 | 10615.6 | 21212.9 | 30633.2 | 31132.4 | 27230.5 | 16369.9 |
| 62.5° | 1589.1 | 1623.5 | 1733.4 | 2457.0 | 4689.6 | 13177.9 | 26532.2 | 29900.5 | 27420.6 | 15898.2 |
| 65° | 1314.4 | 1316.6 | 1330.4 | 1687.6 | 2246.3 | 5513.9 | 19974.1 | 25847.5 | 26951.2 | 15057.9 |
| 67.5° | 1126.6 | 1147.2 | 1199.9 | 1339.5 | 1584.6 | 2418.1 | 11499.5 | 20022.2 | 24095.8 | 13102.4 |
| 70° | 888.5 | 915.9 | 982.3 | 1101.4 | 1222.8 | 1513.6 | 4249.9 | 13322.2 | 18407.9 | 9876.0 |
| 72.5° | 748.8 | 746.5 | 780.8 | 895.3 | 970.9 | 1064.8 | 1634.9 | 7464.8 | 10698.0 | 4714.7 |
| 75° | 579.3 | 602.2 | 645.7 | 748.8 | 794.6 | 771.7 | 886.2 | 2727.2 | 3833.2 | 1428.8 |
| 77.5° | 453.4 | 471.7 | 510.6 | 611.4 | 657.2 | 547.3 | 510.6 | 975.5 | 1231.9 | 512.9 |
| 80° | 203.8 | 219.8 | 348.1 | 451.1 | 535.8 | 377.8 | 277.1 | 499.2 | 547.3 | 233.6 |
| 82.5° | 36.6 | 61.8 | 203.8 | 238.1 | 274.8 | 245.0 | 144.3 | 258.7 | 267.9 | 93.9 |
| 85° | 2.3 | 4.6 | 71.0 | 87.0 | 109.9 | 80.1 | 43.5 | 103.0 | 89.3 | 32.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.3 | 2.3 | 11.4 | 13.7 | 18.3 | 13.7 | 11.4 |
| 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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 CATALOG NUMBER: GALN-SB8B-850-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 8948.6 | 0° | 8948.6 | 8948.6 | 8948.6 | 8948.6 | 8948.6 | 8948.6 | 8948.6 | 8948.6 | 8948.6 | 8948.6 |
| 8969.2 | 2.5° | 8804.4 | 8479.2 | 8163.2 | 7904.5 | 7753.3 | 7496.9 | 7327.4 | 7299.9 | 7229.0 | 7290.8 |
| 8992.1 | 5° | 8634.9 | 8053.3 | 7464.8 | 6938.2 | 6505.4 | 5946.7 | 5529.9 | 5353.6 | 5200.2 | 5252.8 |
| 9051.7 | 7.5° | 8554.8 | 7636.6 | 6720.6 | 5820.7 | 4895.6 | 4002.6 | 3338.6 | 3061.5 | 2850.8 | 2880.6 |
| 9118.1 | 10° | 8447.1 | 7203.8 | 5768.1 | 4394.2 | 3155.4 | 2273.8 | 1815.8 | 1646.4 | 1552.5 | 1554.8 |
| 9216.5 | 12.5° | 8364.7 | 6686.3 | 4662.1 | 2979.1 | 1921.2 | 1451.7 | 1309.8 | 1268.6 | 1241.1 | 1243.4 |
| 9365.4 | 15° | 8323.5 | 6077.2 | 3569.8 | 1985.3 | 1373.9 | 1229.6 | 1195.3 | 1177.0 | 1158.6 | 1156.4 |
| 9530.2 | 17.5° | 8254.8 | 5399.4 | 2612.7 | 1449.5 | 1202.2 | 1151.8 | 1122.0 | 1101.4 | 1078.5 | 1073.9 |
| 9672.2 | 20° | 8151.8 | 4630.0 | 1909.7 | 1225.1 | 1126.6 | 1087.7 | 1046.4 | 1019.0 | 991.5 | 986.9 |
| 9761.5 | 22.5° | 7961.7 | 3817.1 | 1467.8 | 1133.5 | 1071.6 | 1028.1 | 977.8 | 945.7 | 918.2 | 913.6 |
| 9718.0 | 25° | 7609.1 | 3054.6 | 1236.5 | 1076.2 | 1023.5 | 970.9 | 915.9 | 872.4 | 847.2 | 842.7 |
| 9624.1 | 27.5° | 7162.6 | 2399.7 | 1122.0 | 1023.5 | 961.7 | 913.6 | 851.8 | 810.6 | 787.7 | 783.1 |
| 9500.5 | 30° | 6635.9 | 1847.9 | 1055.6 | 964.0 | 888.5 | 847.2 | 792.3 | 757.9 | 744.2 | 744.2 |
| 9413.5 | 32.5° | 6068.0 | 1476.9 | 1028.1 | 904.5 | 824.3 | 778.5 | 735.0 | 721.3 | 716.7 | 714.4 |
| 9461.5 | 35° | 5534.5 | 1282.3 | 1014.4 | 856.4 | 767.1 | 723.6 | 705.3 | 707.6 | 716.7 | 716.7 |
| 9610.4 | 37.5° | 5060.5 | 1220.5 | 1007.5 | 822.0 | 716.7 | 677.8 | 689.2 | 709.8 | 700.7 | 700.7 |
| 9871.4 | 40° | 4632.3 | 1227.3 | 1002.9 | 796.9 | 675.5 | 652.6 | 675.5 | 659.5 | 636.6 | 634.3 |
| 10189.7 | 42.5° | 4304.9 | 1284.6 | 993.8 | 776.2 | 650.3 | 634.3 | 625.1 | 599.9 | 597.6 | 602.2 |
| 10519.4 | 45° | 4066.7 | 1335.0 | 991.5 | 767.1 | 622.8 | 593.1 | 581.6 | 556.4 | 602.2 | 613.7 |
| 10654.5 | 47.5° | 3785.1 | 1335.0 | 991.5 | 735.0 | 577.0 | 565.6 | 547.3 | 519.8 | 565.6 | 577.0 |
| 10526.3 | 50° | 3421.0 | 1250.2 | 952.6 | 698.4 | 540.4 | 533.5 | 501.5 | 467.1 | 458.0 | 464.8 |
| 10226.3 | 52.5° | 2960.7 | 1096.8 | 854.1 | 648.0 | 503.8 | 490.0 | 451.1 | 425.9 | 419.0 | 419.0 |
| 9688.2 | 55° | 2436.4 | 918.2 | 721.3 | 574.7 | 464.8 | 439.6 | 412.2 | 400.7 | 393.8 | 389.3 |
| 8934.9 | 57.5° | 1980.7 | 753.4 | 579.3 | 510.6 | 428.2 | 396.1 | 387.0 | 373.2 | 361.8 | 354.9 |
| 8305.2 | 60° | 1625.8 | 593.1 | 478.6 | 453.4 | 391.6 | 361.8 | 359.5 | 341.2 | 311.4 | 306.8 |
| 7785.4 | 62.5° | 1254.8 | 435.1 | 403.0 | 393.8 | 354.9 | 329.7 | 325.2 | 288.5 | 242.7 | 233.6 |
| 7048.1 | 65° | 886.2 | 338.9 | 325.2 | 345.8 | 316.0 | 293.1 | 281.6 | 226.7 | 178.6 | 171.7 |
| 5898.6 | 67.5° | 622.8 | 283.9 | 256.5 | 302.3 | 274.8 | 245.0 | 238.1 | 192.3 | 148.8 | 144.3 |
| 4460.6 | 70° | 444.2 | 231.3 | 210.7 | 258.7 | 219.8 | 215.2 | 201.5 | 160.3 | 121.4 | 116.8 |
| 2207.4 | 72.5° | 313.7 | 176.3 | 162.6 | 224.4 | 151.1 | 185.5 | 164.9 | 123.7 | 91.6 | 87.0 |
| 751.1 | 75° | 231.3 | 125.9 | 114.5 | 130.5 | 109.9 | 139.7 | 116.8 | 82.4 | 57.2 | 55.0 |
| 338.9 | 77.5° | 169.4 | 80.1 | 68.7 | 64.1 | 64.1 | 87.0 | 64.1 | 34.3 | 25.2 | 22.9 |
| 171.7 | 80° | 119.1 | 36.6 | 32.1 | 27.5 | 25.2 | 20.6 | 9.2 | 4.6 | 2.3 | 2.3 |
| 59.5 | 82.5° | 71.0 | 16.0 | 16.0 | 11.4 | 6.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22.9 | 85° | 16.0 | 6.9 | 6.9 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 9.2 | 87.5° | 2.3 | 2.3 | 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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