

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: P955269

Luminaire Tested: **GALN-SB8B-740-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955269
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-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 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: 41074 lumens
Efficiency: N/A
Efficacy: 140.3 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

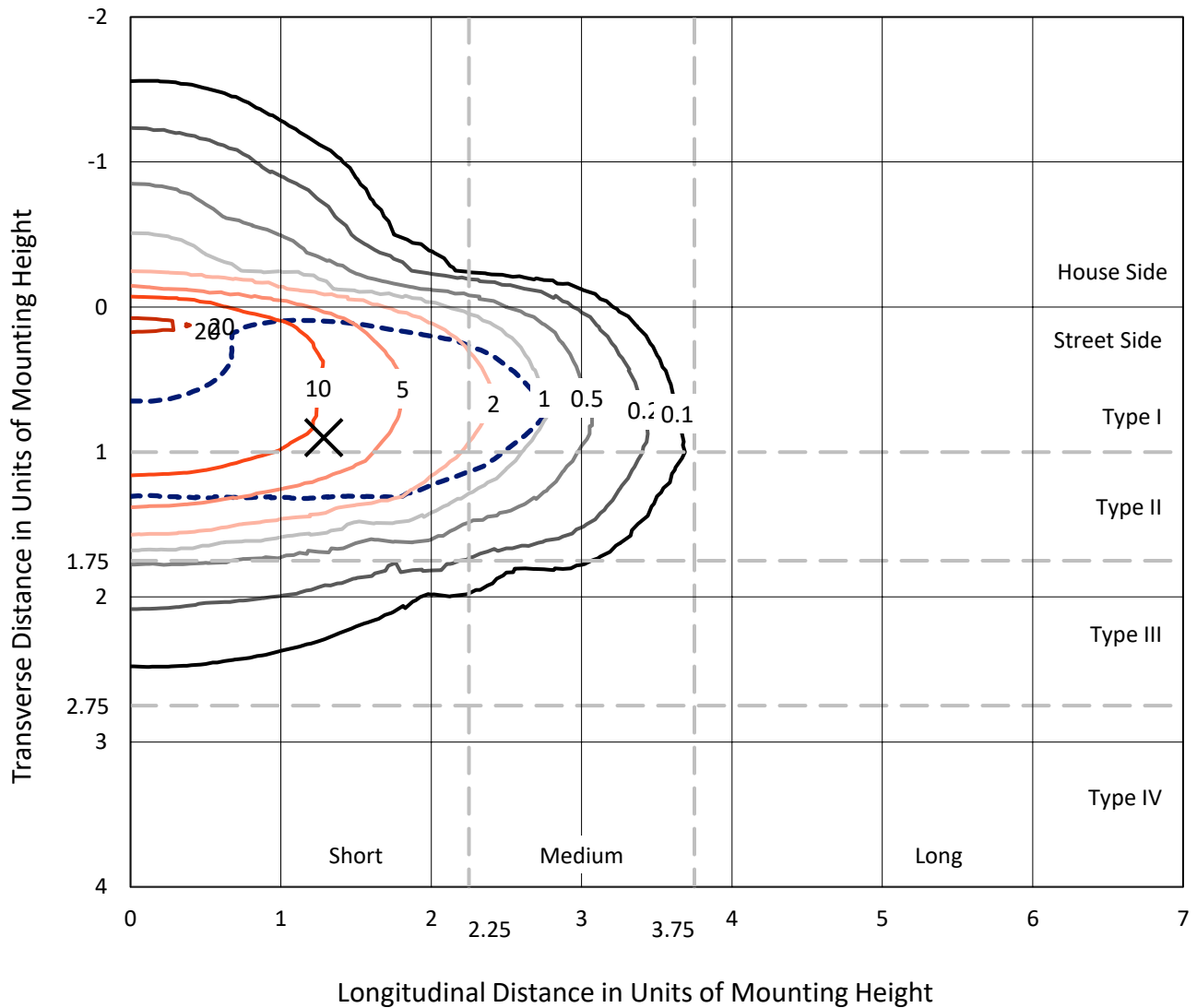
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

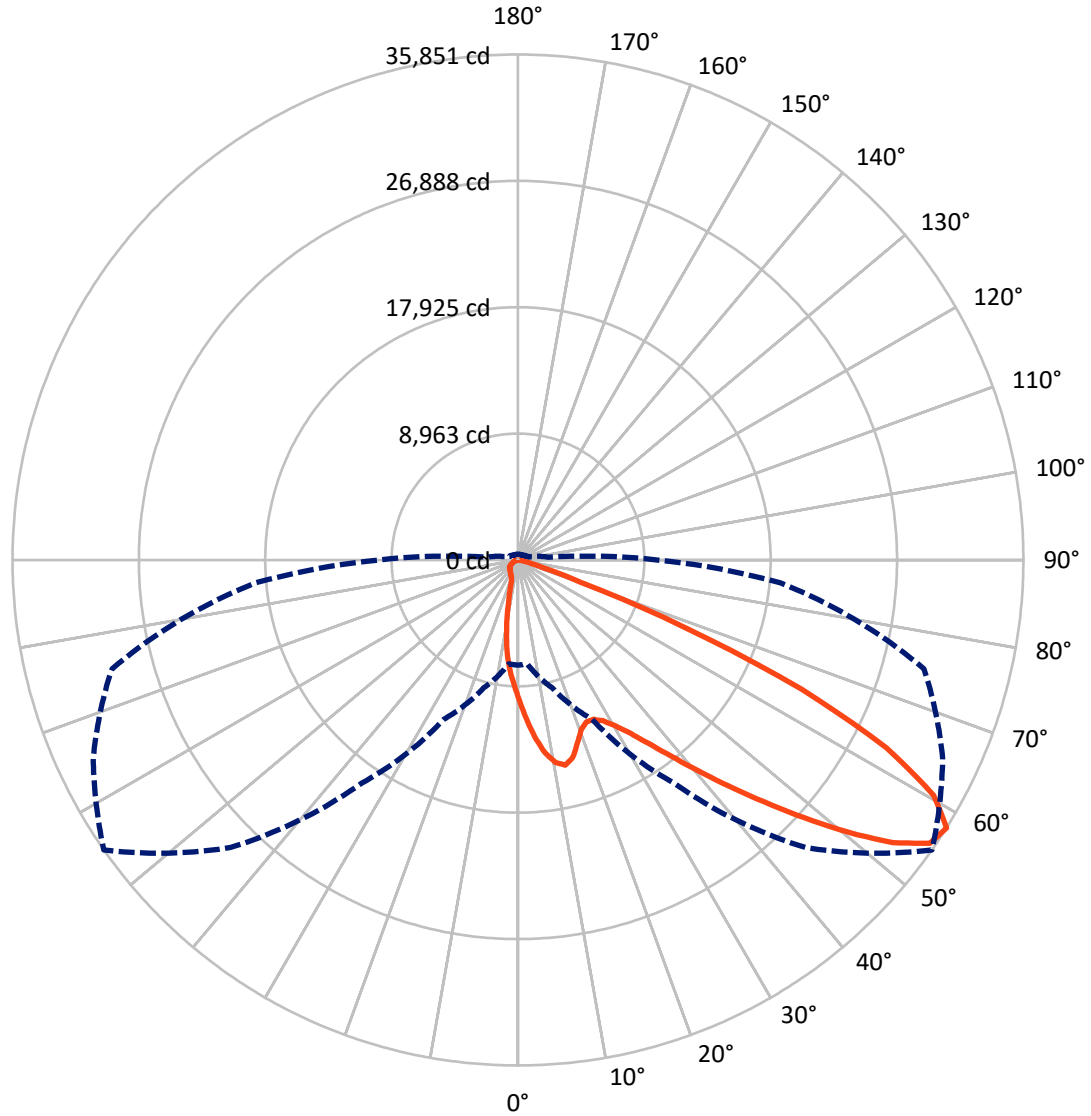
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.7 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 | 3207.7 | 0.0 | 3207.7 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 37866.3 | 0.0 | 37866.3 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 41074.0 | 0.0 | 41074.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 920.9 | 2.2 |
| 10°-20° | 2224.5 | 5.4 |
| 20°-30° | 3559.2 | 8.7 |
| 30°-40° | 6024.2 | 14.7 |
| 40°-50° | 9890.4 | 24.1 |
| 50°-60° | 10870.3 | 26.5 |
| 60°-70° | 6235.2 | 15.2 |
| 70°-80° | 1274.0 | 3.1 |
| 80°-90° | 75.2 | 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° | 41074.0 | 100.0 |
| 0°-180° | 41074.0 | 100.0 |

Coefficient of Utilization



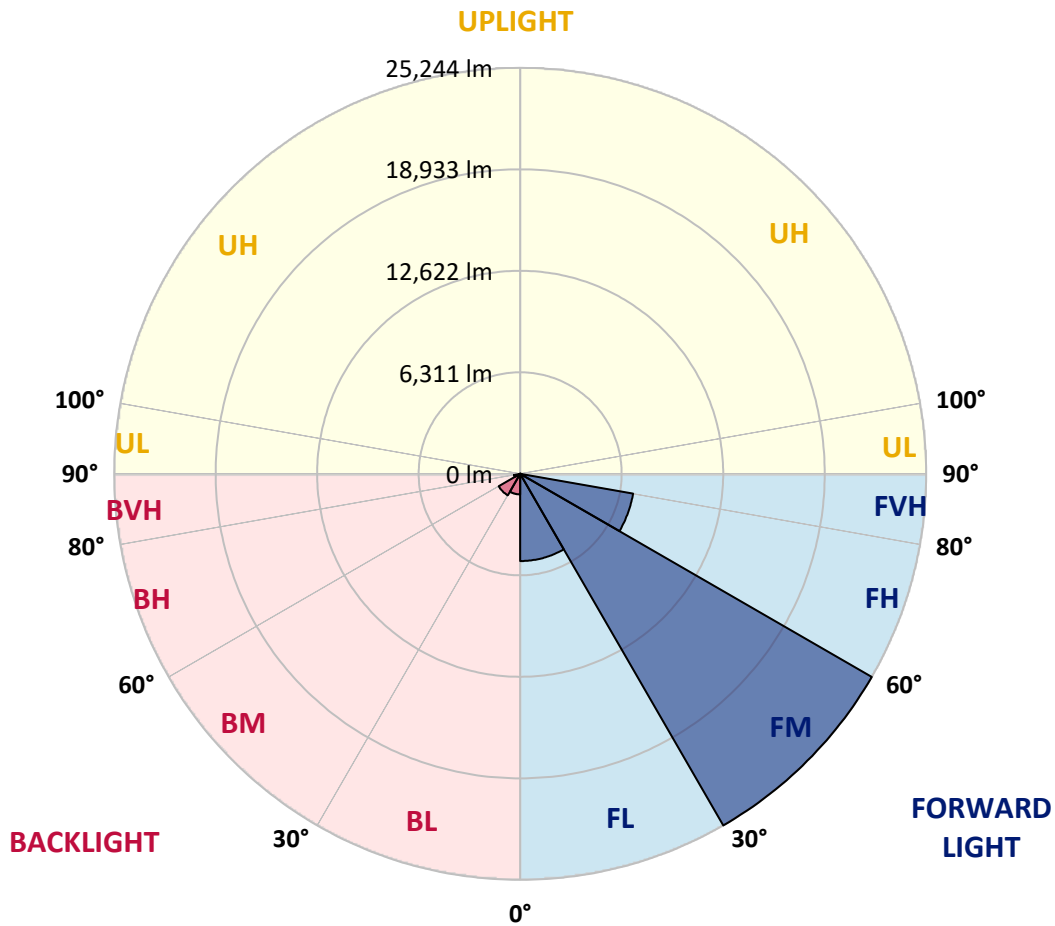
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5424.1 | 13.2 | | | |
| FM (30°-60°) | 25244.4 | 61.5 | | | |
| FH (60°-80°) | 7127.8 | 17.4 | | | G3/7500 |
| FVH (80°-90°) | 70.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1280.6 | 3.1 | B3/2500 | | |
| BM (30°-60°) | 1540.6 | 3.8 | B2/2500 | | |
| BH (60°-80°) | 381.5 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.1 | 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° | 9897.8 | 9897.8 | 9897.8 | 9897.8 | 9897.8 | 9897.8 | 9897.8 | 9897.8 | 9897.8 | 9897.8 |
| 2.5° | 12281.1 | 12126.6 | 12103.8 | 12073.4 | 11779.6 | 11559.3 | 11240.2 | 10890.6 | 10498.1 | 10097.9 |
| 5° | 14188.2 | 14066.7 | 14043.9 | 13902.0 | 13567.7 | 13192.9 | 12625.5 | 11908.8 | 11176.8 | 10315.7 |
| 7.5° | 14558.0 | 14535.2 | 14639.1 | 14634.0 | 14588.4 | 14292.1 | 13813.4 | 12959.9 | 11860.7 | 10584.2 |
| 10° | 12909.2 | 12967.5 | 13276.5 | 13547.5 | 14279.4 | 14704.9 | 14601.1 | 13897.0 | 12564.8 | 10890.6 |
| 12.5° | 11407.3 | 11338.9 | 11559.3 | 11865.7 | 12716.7 | 13983.1 | 14927.8 | 14679.6 | 13370.2 | 11237.6 |
| 15° | 10465.1 | 10437.3 | 10561.4 | 10703.2 | 11351.6 | 12628.1 | 14547.9 | 15315.3 | 14145.2 | 11647.9 |
| 17.5° | 10163.8 | 10141.0 | 10179.0 | 10214.4 | 10634.8 | 11622.6 | 13643.7 | 15705.3 | 14887.3 | 12116.5 |
| 20° | 10409.4 | 10379.0 | 10374.0 | 10346.1 | 10520.9 | 11194.6 | 12825.6 | 15733.2 | 15553.4 | 12542.0 |
| 22.5° | 11126.2 | 11090.7 | 10966.6 | 10855.2 | 10870.4 | 11252.8 | 12460.9 | 15454.6 | 16054.8 | 12939.6 |
| 25° | 12425.5 | 12367.2 | 12108.9 | 11734.0 | 11496.0 | 11658.1 | 12516.6 | 15087.3 | 16533.5 | 13251.1 |
| 27.5° | 14051.5 | 13975.5 | 13643.7 | 13086.5 | 12542.0 | 12344.4 | 12919.3 | 14834.1 | 16931.2 | 13489.2 |
| 30° | 15644.5 | 15545.8 | 15219.0 | 14785.9 | 13990.7 | 13367.6 | 13646.2 | 14945.5 | 17404.8 | 13737.4 |
| 32.5° | 17364.2 | 17270.5 | 16837.4 | 16300.5 | 15642.0 | 14803.7 | 14641.6 | 15490.0 | 17984.8 | 14084.4 |
| 35° | 19539.8 | 19392.9 | 18777.5 | 18045.5 | 17346.5 | 16498.1 | 15989.0 | 16429.7 | 18757.2 | 14613.7 |
| 37.5° | 22016.8 | 21819.3 | 21155.7 | 20145.2 | 19233.4 | 18283.6 | 17630.2 | 17721.4 | 19889.4 | 15322.9 |
| 40° | 24352.0 | 24172.2 | 23559.2 | 22606.9 | 21462.2 | 20309.8 | 19613.3 | 19410.7 | 21452.0 | 16186.5 |
| 42.5° | 25752.6 | 25590.5 | 25332.1 | 24929.4 | 23964.5 | 22789.3 | 21910.5 | 21472.3 | 23300.9 | 17219.9 |
| 45° | 25831.1 | 25689.3 | 26036.2 | 26504.8 | 26314.8 | 25532.2 | 24460.9 | 23658.0 | 25157.4 | 18189.9 |
| 47.5° | 24574.9 | 24478.6 | 25532.2 | 27168.4 | 27983.9 | 28313.1 | 27325.4 | 25661.4 | 26689.7 | 18886.4 |
| 50° | 21150.6 | 21115.2 | 23283.2 | 26287.0 | 28619.6 | 30749.6 | 30346.9 | 27525.5 | 27877.5 | 19246.0 |
| 52.5° | 18339.3 | 18210.2 | 19474.0 | 23465.5 | 27695.2 | 32031.2 | 33300.0 | 29354.1 | 28708.2 | 19314.4 |
| 55° | 13909.6 | 13795.7 | 15381.1 | 18744.6 | 24714.2 | 31575.3 | 35460.4 | 31240.9 | 29303.4 | 19139.7 |
| 57.5° | 7461.4 | 7390.4 | 9393.8 | 12476.1 | 19319.5 | 28839.9 | 35850.5 | 33236.7 | 29804.9 | 18676.2 |
| 60° | 2905.0 | 2892.4 | 3642.0 | 6053.2 | 11741.6 | 23463.0 | 33882.6 | 34434.7 | 30119.0 | 18106.3 |
| 62.5° | 1757.7 | 1795.7 | 1917.3 | 2717.6 | 5187.0 | 14575.7 | 29346.5 | 33072.1 | 30329.2 | 17584.6 |
| 65° | 1453.8 | 1456.3 | 1471.5 | 1866.6 | 2484.6 | 6098.8 | 22092.8 | 28589.2 | 29810.0 | 16655.1 |
| 67.5° | 1246.1 | 1268.9 | 1327.1 | 1481.6 | 1752.6 | 2674.5 | 12719.3 | 22146.0 | 26651.7 | 14492.2 |
| 70° | 982.7 | 1013.1 | 1086.5 | 1218.2 | 1352.5 | 1674.1 | 4700.7 | 14735.3 | 20360.4 | 10923.6 |
| 72.5° | 828.2 | 825.7 | 863.7 | 990.3 | 1073.9 | 1177.7 | 1808.4 | 8256.6 | 11832.8 | 5214.8 |
| 75° | 640.8 | 666.1 | 714.2 | 828.2 | 878.8 | 853.5 | 980.2 | 3016.5 | 4239.8 | 1580.4 |
| 77.5° | 501.5 | 521.7 | 564.8 | 676.2 | 726.9 | 605.3 | 564.8 | 1078.9 | 1362.6 | 567.3 |
| 80° | 225.4 | 243.1 | 385.0 | 498.9 | 592.7 | 417.9 | 306.5 | 552.1 | 605.3 | 258.3 |
| 82.5° | 40.5 | 68.4 | 225.4 | 263.4 | 303.9 | 271.0 | 159.6 | 286.2 | 296.3 | 103.8 |
| 85° | 2.5 | 5.1 | 78.5 | 96.2 | 121.6 | 88.6 | 48.1 | 114.0 | 98.8 | 35.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.5 | 2.5 | 12.7 | 15.2 | 20.3 | 15.2 | 12.7 |
| 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° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9897.8 | 0° | 9897.8 | 9897.8 | 9897.8 | 9897.8 | 9897.8 | 9897.8 | 9897.8 | 9897.8 | 9897.8 | 9897.8 |
| 9920.6 | 2.5° | 9738.3 | 9378.6 | 9029.1 | 8742.9 | 8575.7 | 8292.1 | 8104.7 | 8074.3 | 7995.8 | 8064.1 |
| 9945.9 | 5° | 9550.8 | 8907.5 | 8256.6 | 7674.1 | 7195.4 | 6577.4 | 6116.5 | 5921.5 | 5751.8 | 5810.0 |
| 10011.8 | 7.5° | 9462.2 | 8446.6 | 7433.5 | 6438.1 | 5414.9 | 4427.2 | 3692.7 | 3386.2 | 3153.2 | 3186.1 |
| 10085.2 | 10° | 9343.2 | 7967.9 | 6379.9 | 4860.3 | 3490.1 | 2515.0 | 2008.4 | 1821.0 | 1717.2 | 1719.7 |
| 10194.1 | 12.5° | 9252.0 | 7395.5 | 5156.6 | 3295.1 | 2124.9 | 1605.7 | 1448.7 | 1403.1 | 1372.7 | 1375.3 |
| 10358.8 | 15° | 9206.4 | 6721.8 | 3948.5 | 2195.9 | 1519.6 | 1360.1 | 1322.1 | 1301.8 | 1281.6 | 1279.0 |
| 10541.1 | 17.5° | 9130.4 | 5972.1 | 2889.8 | 1603.2 | 1329.7 | 1274.0 | 1241.0 | 1218.2 | 1192.9 | 1187.8 |
| 10698.2 | 20° | 9016.4 | 5121.1 | 2112.3 | 1355.0 | 1246.1 | 1203.0 | 1157.4 | 1127.1 | 1096.7 | 1091.6 |
| 10796.9 | 22.5° | 8806.2 | 4222.0 | 1623.5 | 1253.7 | 1185.3 | 1137.2 | 1081.5 | 1046.0 | 1015.6 | 1010.6 |
| 10748.8 | 25° | 8416.2 | 3378.6 | 1367.7 | 1190.4 | 1132.1 | 1073.9 | 1013.1 | 965.0 | 937.1 | 932.0 |
| 10645.0 | 27.5° | 7922.3 | 2654.3 | 1241.0 | 1132.1 | 1063.7 | 1010.6 | 942.2 | 896.6 | 871.3 | 866.2 |
| 10508.2 | 30° | 7339.8 | 2043.9 | 1167.6 | 1066.3 | 982.7 | 937.1 | 876.3 | 838.3 | 823.1 | 823.1 |
| 10412.0 | 32.5° | 6711.7 | 1633.6 | 1137.2 | 1000.4 | 911.8 | 861.1 | 813.0 | 797.8 | 792.7 | 790.2 |
| 10465.1 | 35° | 6121.6 | 1418.3 | 1122.0 | 947.2 | 848.5 | 800.3 | 780.1 | 782.6 | 792.7 | 792.7 |
| 10629.8 | 37.5° | 5597.3 | 1349.9 | 1114.4 | 909.2 | 792.7 | 749.7 | 762.3 | 785.1 | 775.0 | 775.0 |
| 10918.5 | 40° | 5123.7 | 1357.5 | 1109.3 | 881.4 | 747.1 | 721.8 | 747.1 | 729.4 | 704.1 | 701.6 |
| 11270.5 | 42.5° | 4761.5 | 1420.8 | 1099.2 | 858.6 | 719.3 | 701.6 | 691.4 | 663.6 | 661.0 | 666.1 |
| 11635.3 | 45° | 4498.1 | 1476.6 | 1096.7 | 848.5 | 688.9 | 656.0 | 643.3 | 615.4 | 666.1 | 678.8 |
| 11784.7 | 47.5° | 4186.6 | 1476.6 | 1096.7 | 813.0 | 638.2 | 625.6 | 605.3 | 574.9 | 625.6 | 638.2 |
| 11642.9 | 50° | 3783.9 | 1382.9 | 1053.6 | 772.5 | 597.7 | 590.1 | 554.7 | 516.7 | 506.5 | 514.1 |
| 11311.1 | 52.5° | 3274.8 | 1213.2 | 944.7 | 716.8 | 557.2 | 542.0 | 498.9 | 471.1 | 463.5 | 463.5 |
| 10715.9 | 55° | 2694.8 | 1015.6 | 797.8 | 635.7 | 514.1 | 486.3 | 455.9 | 443.2 | 435.6 | 430.6 |
| 9882.6 | 57.5° | 2190.8 | 833.3 | 640.8 | 564.8 | 473.6 | 438.2 | 428.0 | 412.8 | 400.2 | 392.6 |
| 9186.1 | 60° | 1798.2 | 656.0 | 529.3 | 501.5 | 433.1 | 400.2 | 397.6 | 377.4 | 344.4 | 339.4 |
| 8611.2 | 62.5° | 1387.9 | 481.2 | 445.8 | 435.6 | 392.6 | 364.7 | 359.6 | 319.1 | 268.5 | 258.3 |
| 7795.7 | 65° | 980.2 | 374.8 | 359.6 | 382.4 | 349.5 | 324.2 | 311.5 | 250.7 | 197.6 | 190.0 |
| 6524.3 | 67.5° | 688.9 | 314.1 | 283.7 | 334.3 | 303.9 | 271.0 | 263.4 | 212.7 | 164.6 | 159.6 |
| 4933.7 | 70° | 491.3 | 255.8 | 233.0 | 286.2 | 243.1 | 238.1 | 222.9 | 177.3 | 134.2 | 129.2 |
| 2441.5 | 72.5° | 347.0 | 195.0 | 179.8 | 248.2 | 167.2 | 205.1 | 182.4 | 136.8 | 101.3 | 96.2 |
| 830.7 | 75° | 255.8 | 139.3 | 126.6 | 144.4 | 121.6 | 154.5 | 129.2 | 91.2 | 63.3 | 60.8 |
| 374.8 | 77.5° | 187.4 | 88.6 | 76.0 | 70.9 | 70.9 | 96.2 | 70.9 | 38.0 | 27.9 | 25.3 |
| 190.0 | 80° | 131.7 | 40.5 | 35.5 | 30.4 | 27.9 | 22.8 | 10.1 | 5.1 | 2.5 | 2.5 |
| 65.9 | 82.5° | 78.5 | 17.7 | 17.7 | 12.7 | 7.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25.3 | 85° | 17.7 | 7.6 | 7.6 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10.1 | 87.5° | 2.5 | 2.5 | 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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