

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: P945750

Luminaire Tested: **GALN-SB1C-835-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5785 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

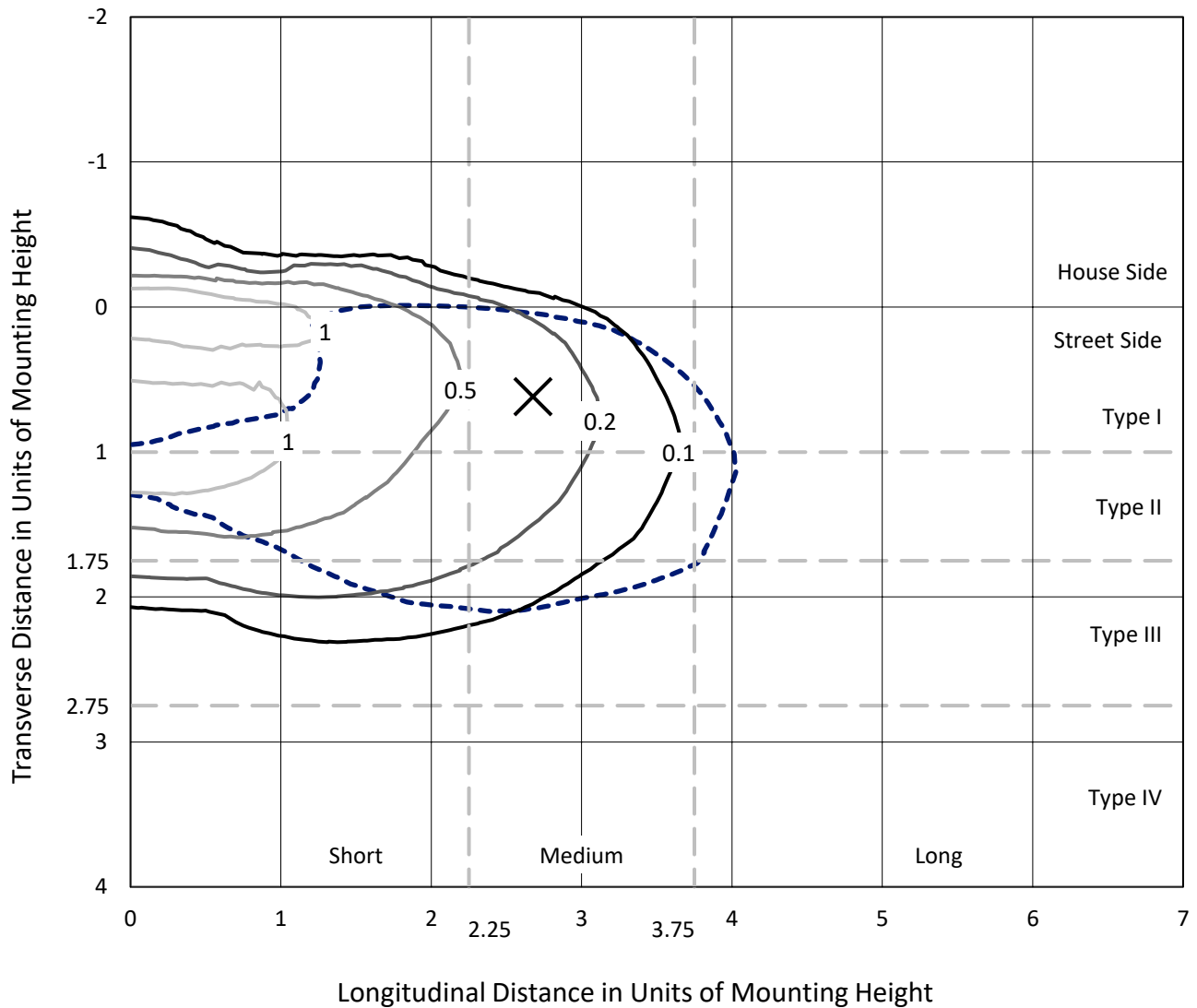
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

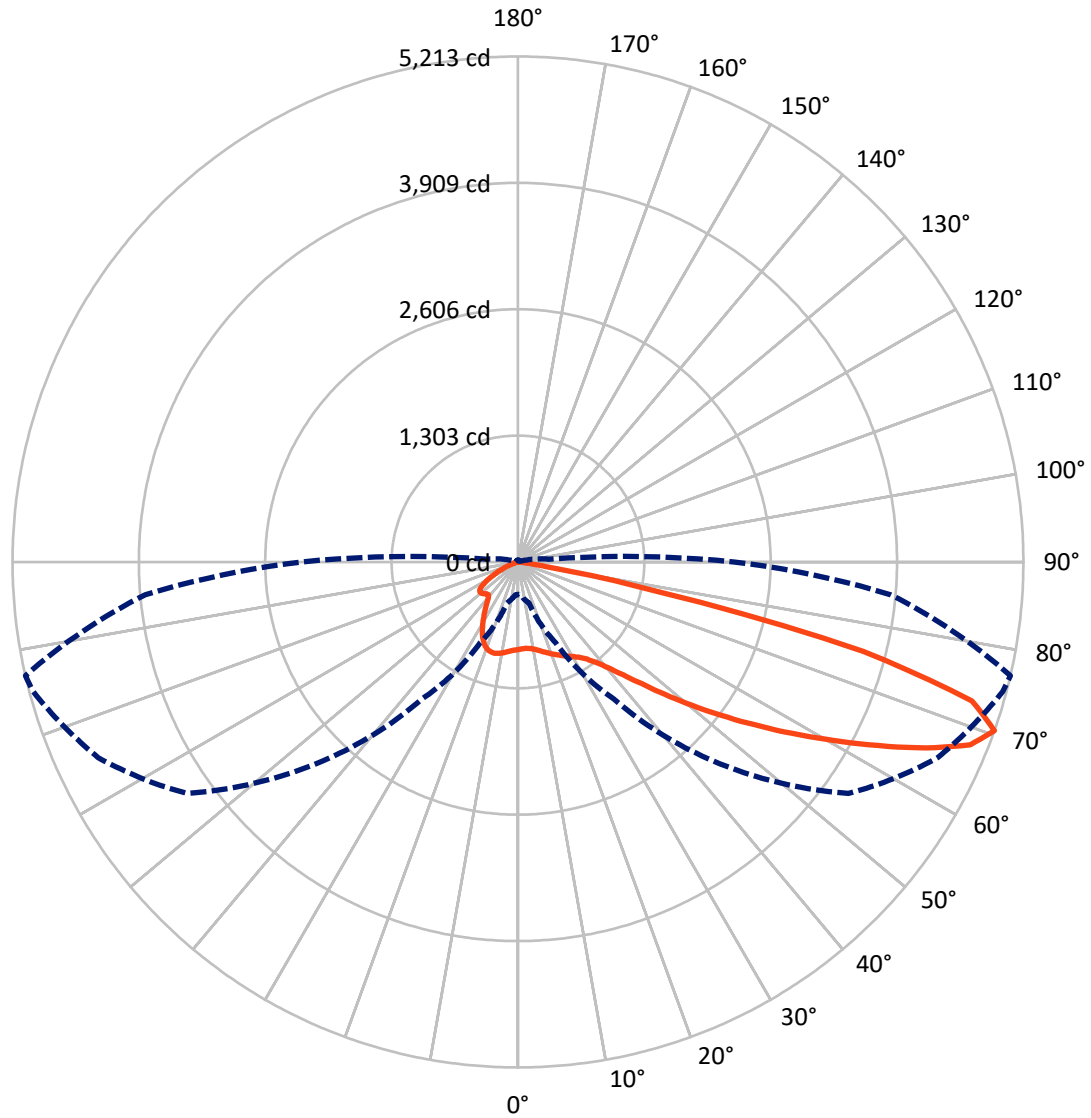
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 609.8 | 0.0 | 609.8 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 5175.2 | 0.0 | 5175.2 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 5785.0 | 0.0 | 5785.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 77.8 | 1.3 |
| 10°-20° | 184.6 | 3.2 |
| 20°-30° | 285.5 | 4.9 |
| 30°-40° | 518.1 | 9.0 |
| 40°-50° | 978.1 | 16.9 |
| 50°-60° | 1413.2 | 24.4 |
| 60°-70° | 1504.3 | 26.0 |
| 70°-80° | 797.2 | 13.8 |
| 80°-90° | 26.2 | 0.5 |
| 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° | 5785.0 | 100.0 |
| 0°-180° | 5785.0 | 100.0 |

Coefficient of Utilization



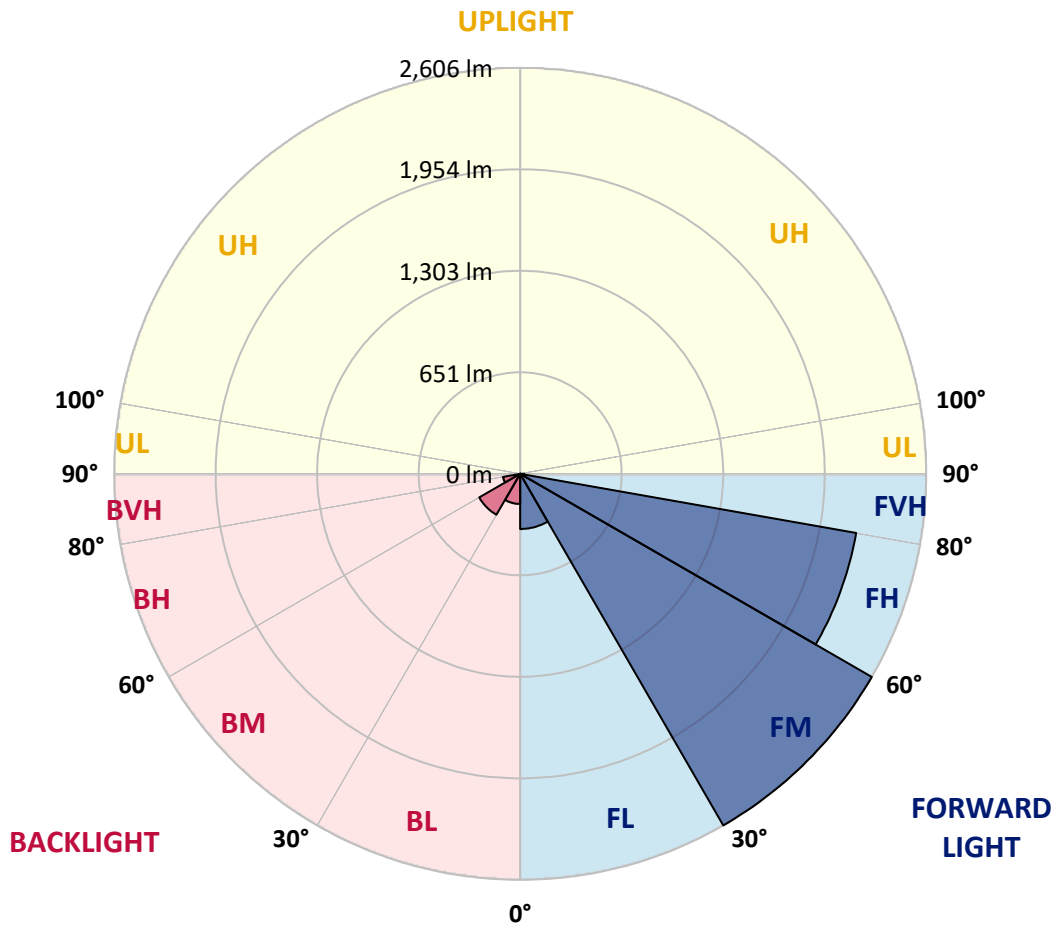
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 354.2 | 6.1 | | | |
| FM (30°-60°) | 2605.8 | 45.0 | | | |
| FH (60°-80°) | 2189.7 | 37.9 | | | G2/5000 |
| FVH (80°-90°) | 25.5 | 0.4 | | | G1/100 |
| BL (0°-30°) | 193.8 | 3.3 | B1/500 | | |
| BM (30°-60°) | 303.6 | 5.2 | B1/1000 | | |
| BH (60°-80°) | 111.8 | 1.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.7 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 902.4 | 902.4 | 902.4 | 902.4 | 902.4 | 902.4 | 902.4 | 902.4 | 902.4 | 902.4 |
| 2.5° | 847.2 | 854.9 | 853.8 | 858.9 | 860.7 | 868.0 | 875.3 | 885.2 | 896.1 | 895.8 |
| 5° | 799.3 | 807.0 | 808.8 | 815.8 | 824.5 | 835.9 | 850.8 | 870.6 | 891.0 | 894.3 |
| 7.5° | 742.7 | 750.7 | 755.5 | 769.4 | 785.5 | 808.8 | 833.3 | 862.2 | 896.1 | 900.9 |
| 10° | 686.1 | 693.4 | 699.6 | 719.3 | 744.9 | 779.6 | 819.4 | 861.1 | 906.7 | 913.7 |
| 12.5° | 651.0 | 658.0 | 664.9 | 682.1 | 713.8 | 756.2 | 810.3 | 866.2 | 924.3 | 934.1 |
| 15° | 638.6 | 644.8 | 650.3 | 665.6 | 695.2 | 743.4 | 808.5 | 876.8 | 946.6 | 959.7 |
| 17.5° | 640.4 | 643.7 | 647.4 | 659.0 | 687.9 | 737.6 | 811.8 | 895.0 | 972.9 | 984.6 |
| 20° | 651.0 | 652.8 | 653.2 | 661.2 | 686.8 | 736.9 | 818.3 | 912.6 | 997.7 | 1013.4 |
| 22.5° | 664.5 | 665.3 | 664.5 | 670.0 | 693.8 | 742.3 | 827.1 | 933.8 | 1025.5 | 1040.1 |
| 25° | 727.7 | 713.8 | 696.3 | 685.7 | 705.4 | 752.9 | 840.3 | 962.3 | 1055.8 | 1070.0 |
| 27.5° | 923.9 | 884.1 | 821.3 | 750.7 | 729.6 | 768.3 | 858.5 | 991.1 | 1086.5 | 1099.3 |
| 30° | 1242.5 | 1190.2 | 1083.6 | 924.6 | 807.0 | 800.4 | 882.3 | 1020.0 | 1119.0 | 1132.9 |
| 32.5° | 1561.8 | 1549.0 | 1425.9 | 1205.9 | 981.3 | 872.0 | 921.7 | 1059.1 | 1162.1 | 1173.1 |
| 35° | 1884.7 | 1858.8 | 1757.9 | 1540.6 | 1249.8 | 1017.8 | 987.5 | 1110.2 | 1218.7 | 1231.1 |
| 37.5° | 2132.0 | 2116.3 | 2053.9 | 1874.9 | 1568.3 | 1242.8 | 1100.0 | 1189.5 | 1300.9 | 1314.8 |
| 40° | 2350.5 | 2343.2 | 2322.0 | 2204.0 | 1924.5 | 1537.3 | 1275.0 | 1312.3 | 1414.9 | 1431.3 |
| 42.5° | 2522.2 | 2539.4 | 2551.4 | 2518.6 | 2291.7 | 1873.4 | 1510.3 | 1484.7 | 1573.8 | 1590.6 |
| 45° | 2697.9 | 2703.8 | 2752.4 | 2799.9 | 2656.3 | 2224.8 | 1775.5 | 1686.7 | 1771.5 | 1792.3 |
| 47.5° | 2810.8 | 2834.2 | 2919.7 | 3003.3 | 2962.8 | 2573.4 | 2060.4 | 1925.3 | 2000.5 | 2039.6 |
| 50° | 2819.2 | 2863.4 | 2981.1 | 3126.8 | 3186.0 | 2905.1 | 2370.2 | 2197.1 | 2277.1 | 2320.2 |
| 52.5° | 2679.3 | 2748.0 | 2930.3 | 3143.6 | 3306.6 | 3186.0 | 2690.6 | 2468.9 | 2571.5 | 2627.8 |
| 55° | 2054.2 | 2144.1 | 2739.2 | 3052.3 | 3311.3 | 3399.0 | 3002.6 | 2752.0 | 2899.6 | 2963.2 |
| 57.5° | 1789.7 | 1835.0 | 2153.6 | 2893.7 | 3223.3 | 3484.8 | 3284.6 | 3021.6 | 3256.5 | 3335.4 |
| 60° | 1489.1 | 1548.6 | 1806.2 | 2634.4 | 3103.8 | 3493.2 | 3533.8 | 3369.4 | 3643.4 | 3732.2 |
| 62.5° | 1012.0 | 1076.6 | 1332.7 | 2188.7 | 2940.5 | 3489.2 | 3738.0 | 3727.4 | 4073.4 | 4168.7 |
| 65° | 626.9 | 667.5 | 836.2 | 1787.2 | 2712.2 | 3493.6 | 3951.7 | 4162.2 | 4527.1 | 4623.9 |
| 67.5° | 495.4 | 514.0 | 602.1 | 1372.2 | 2318.7 | 3395.0 | 4165.1 | 4571.0 | 4954.2 | 5030.9 |
| 70° | 332.8 | 344.1 | 438.0 | 919.9 | 1725.1 | 2939.8 | 4161.1 | 4776.3 | 5174.1 | 5212.5 |
| 72.5° | 175.4 | 184.1 | 256.1 | 426.0 | 1041.9 | 2089.7 | 3507.5 | 4530.8 | 4955.3 | 4897.6 |
| 75° | 87.7 | 102.3 | 172.4 | 216.3 | 445.0 | 1165.4 | 2178.1 | 3572.2 | 3900.2 | 3676.6 |
| 77.5° | 66.5 | 80.4 | 142.5 | 142.5 | 154.9 | 392.4 | 922.4 | 1948.3 | 1797.0 | 1496.4 |
| 80° | 42.4 | 54.8 | 124.6 | 107.8 | 64.7 | 99.7 | 240.4 | 545.8 | 381.8 | 290.4 |
| 82.5° | 24.8 | 35.8 | 103.8 | 71.2 | 36.2 | 36.9 | 68.0 | 116.2 | 99.0 | 77.1 |
| 85° | 9.9 | 23.4 | 71.2 | 28.1 | 14.2 | 9.1 | 20.5 | 24.8 | 20.5 | 15.3 |
| 87.5° | 0.0 | 5.5 | 12.4 | 0.0 | 1.1 | 0.7 | 1.5 | 1.8 | 1.8 | 1.5 |
| 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):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 902.4 | 0° | 902.4 | 902.4 | 902.4 | 902.4 | 902.4 | 902.4 | 902.4 | 902.4 | 902.4 | 902.4 |
| 903.1 | 2.5° | 906.4 | 907.1 | 909.3 | 909.7 | 904.5 | 898.0 | 895.4 | 894.3 | 889.9 | 889.6 |
| 908.9 | 5° | 917.3 | 920.6 | 917.3 | 907.8 | 885.2 | 853.4 | 829.3 | 809.6 | 791.7 | 786.2 |
| 929.0 | 7.5° | 939.3 | 942.5 | 932.7 | 895.4 | 838.4 | 775.2 | 718.2 | 678.0 | 641.9 | 628.4 |
| 953.5 | 10° | 970.7 | 975.1 | 944.0 | 868.7 | 767.9 | 666.4 | 569.9 | 502.0 | 449.0 | 427.4 |
| 986.7 | 12.5° | 1010.1 | 1012.0 | 950.2 | 828.2 | 676.2 | 531.2 | 394.6 | 321.9 | 274.7 | 257.2 |
| 1026.9 | 15° | 1053.6 | 1051.0 | 950.9 | 773.0 | 551.3 | 375.6 | 257.6 | 211.5 | 192.5 | 186.7 |
| 1067.1 | 17.5° | 1099.3 | 1088.7 | 936.3 | 693.4 | 414.3 | 256.8 | 191.1 | 180.1 | 176.8 | 175.4 |
| 1106.9 | 20° | 1144.2 | 1120.5 | 909.7 | 589.3 | 297.4 | 191.8 | 173.5 | 170.2 | 168.4 | 167.7 |
| 1147.1 | 22.5° | 1185.1 | 1144.6 | 864.0 | 468.3 | 215.9 | 169.5 | 164.0 | 161.1 | 157.8 | 156.4 |
| 1186.2 | 25° | 1224.9 | 1158.4 | 799.7 | 355.5 | 172.8 | 158.6 | 154.2 | 148.7 | 144.3 | 142.5 |
| 1228.2 | 27.5° | 1263.7 | 1167.2 | 719.3 | 263.0 | 154.2 | 148.3 | 140.3 | 132.6 | 129.3 | 128.6 |
| 1273.2 | 30° | 1304.9 | 1170.1 | 628.0 | 196.2 | 142.8 | 135.5 | 123.8 | 115.1 | 113.3 | 113.6 |
| 1333.8 | 32.5° | 1355.4 | 1174.5 | 535.9 | 160.7 | 133.3 | 120.2 | 106.3 | 97.2 | 95.7 | 97.2 |
| 1422.2 | 35° | 1415.6 | 1183.3 | 447.2 | 148.0 | 124.9 | 104.5 | 89.5 | 81.8 | 80.4 | 81.5 |
| 1535.5 | 37.5° | 1497.5 | 1197.5 | 364.2 | 145.4 | 118.0 | 91.3 | 75.3 | 69.0 | 69.0 | 69.4 |
| 1674.3 | 40° | 1606.3 | 1235.5 | 290.1 | 143.6 | 114.3 | 81.5 | 63.6 | 61.0 | 62.1 | 62.8 |
| 1851.1 | 42.5° | 1739.0 | 1316.3 | 240.0 | 141.4 | 110.3 | 77.1 | 57.7 | 56.6 | 58.5 | 59.2 |
| 2063.0 | 45° | 1887.6 | 1418.6 | 222.5 | 137.7 | 106.7 | 80.0 | 55.2 | 53.7 | 55.9 | 56.3 |
| 2300.5 | 47.5° | 2041.4 | 1518.7 | 220.3 | 133.7 | 103.0 | 84.4 | 54.4 | 51.1 | 53.7 | 54.1 |
| 2554.0 | 50° | 2197.1 | 1584.1 | 222.5 | 127.5 | 97.2 | 84.4 | 54.8 | 48.6 | 50.8 | 51.9 |
| 2817.0 | 52.5° | 2353.8 | 1614.0 | 221.0 | 114.0 | 86.9 | 79.3 | 54.8 | 46.4 | 48.6 | 49.3 |
| 3101.3 | 55° | 2505.8 | 1608.2 | 198.7 | 93.9 | 73.8 | 70.1 | 53.3 | 44.6 | 46.0 | 46.4 |
| 3369.8 | 57.5° | 2626.0 | 1526.7 | 157.5 | 73.1 | 59.9 | 58.5 | 48.6 | 42.4 | 43.5 | 43.1 |
| 3616.0 | 60° | 2688.8 | 1347.7 | 112.5 | 56.3 | 47.1 | 46.0 | 42.7 | 39.5 | 40.2 | 38.4 |
| 3824.6 | 62.5° | 2689.5 | 1111.0 | 75.3 | 44.6 | 37.6 | 36.5 | 36.5 | 35.4 | 34.7 | 31.1 |
| 3986.1 | 65° | 2632.2 | 848.3 | 50.0 | 35.4 | 30.3 | 28.5 | 30.7 | 30.3 | 27.8 | 22.7 |
| 4035.4 | 67.5° | 2502.1 | 556.0 | 38.0 | 27.8 | 23.4 | 22.3 | 24.5 | 25.6 | 23.7 | 19.0 |
| 3855.7 | 70° | 2234.7 | 323.7 | 31.4 | 21.6 | 17.5 | 16.4 | 19.7 | 21.9 | 19.7 | 15.3 |
| 3295.6 | 72.5° | 1856.2 | 174.6 | 25.6 | 16.1 | 12.1 | 11.0 | 15.7 | 17.9 | 15.7 | 11.3 |
| 2114.5 | 75° | 1204.5 | 93.5 | 19.7 | 10.6 | 6.2 | 6.9 | 11.7 | 13.2 | 11.0 | 7.3 |
| 620.7 | 77.5° | 404.4 | 41.3 | 12.4 | 5.1 | 2.9 | 2.9 | 6.9 | 8.0 | 5.1 | 2.6 |
| 112.9 | 80° | 90.2 | 17.2 | 5.1 | 2.2 | 1.1 | 1.1 | 1.5 | 1.5 | 0.7 | 0.0 |
| 34.7 | 82.5° | 29.6 | 6.9 | 2.2 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8.8 | 85° | 11.3 | 2.6 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2.9 | 87.5° | 4.4 | 0.4 | 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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|-------------|
| <u>180°</u> |
| 902.4 |
| 890.3 |
| 782.9 |
| 622.9 |
| 418.3 |
| 251.7 |
| 186.7 |
| 175.0 |
| 167.0 |
| 156.0 |
| 141.7 |
| 127.9 |
| 113.6 |
| 96.8 |
| 81.1 |
| 69.0 |
| 62.8 |
| 59.2 |
| 56.6 |
| 54.4 |
| 52.2 |
| 49.3 |
| 46.4 |
| 43.1 |
| 38.0 |
| 30.0 |
| 21.9 |
| 18.6 |
| 14.6 |
| 11.0 |
| 6.6 |
| 2.2 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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