

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: P952678

Luminaire Tested: **GALN-SB6B-950-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-950-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18154 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

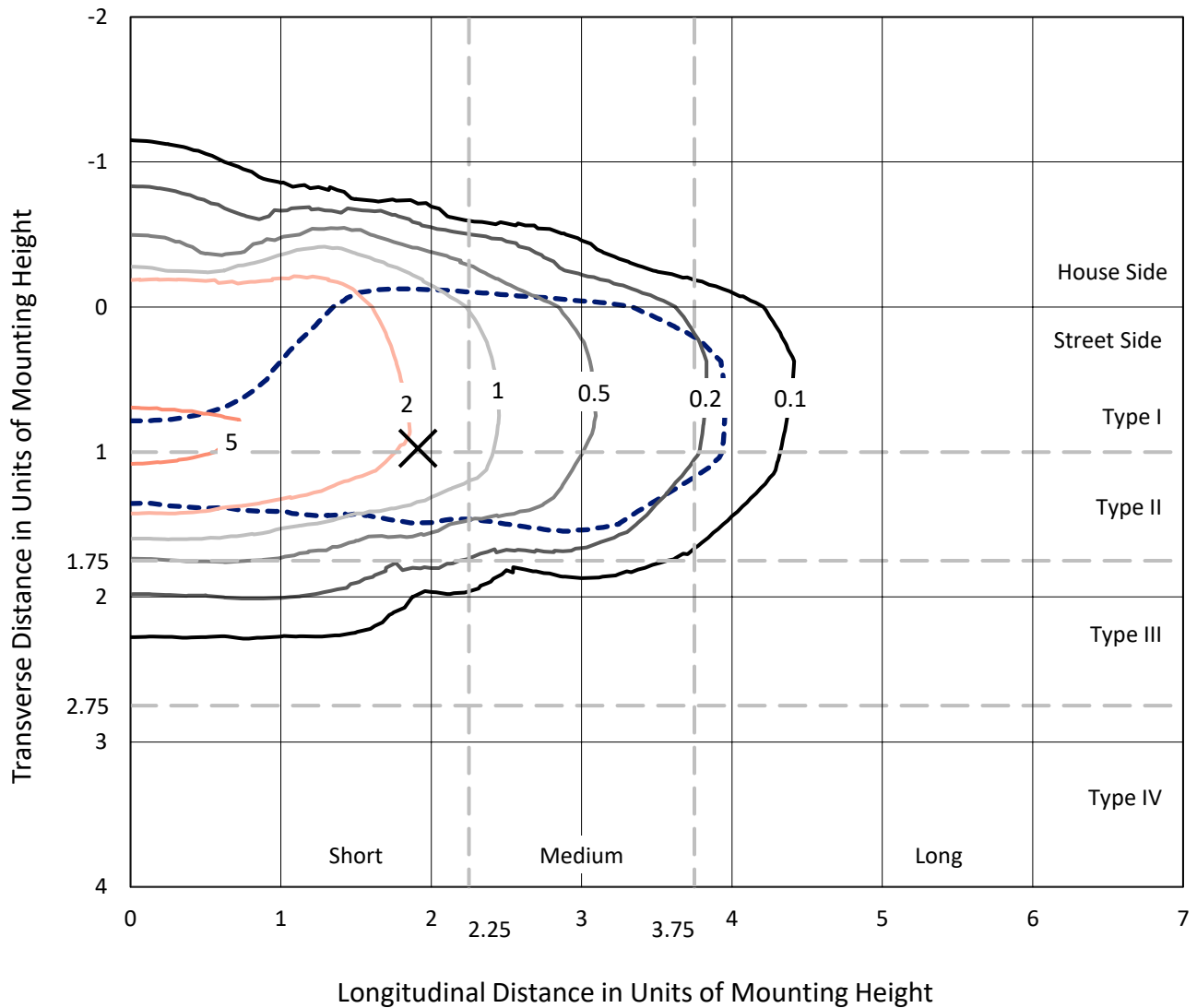
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

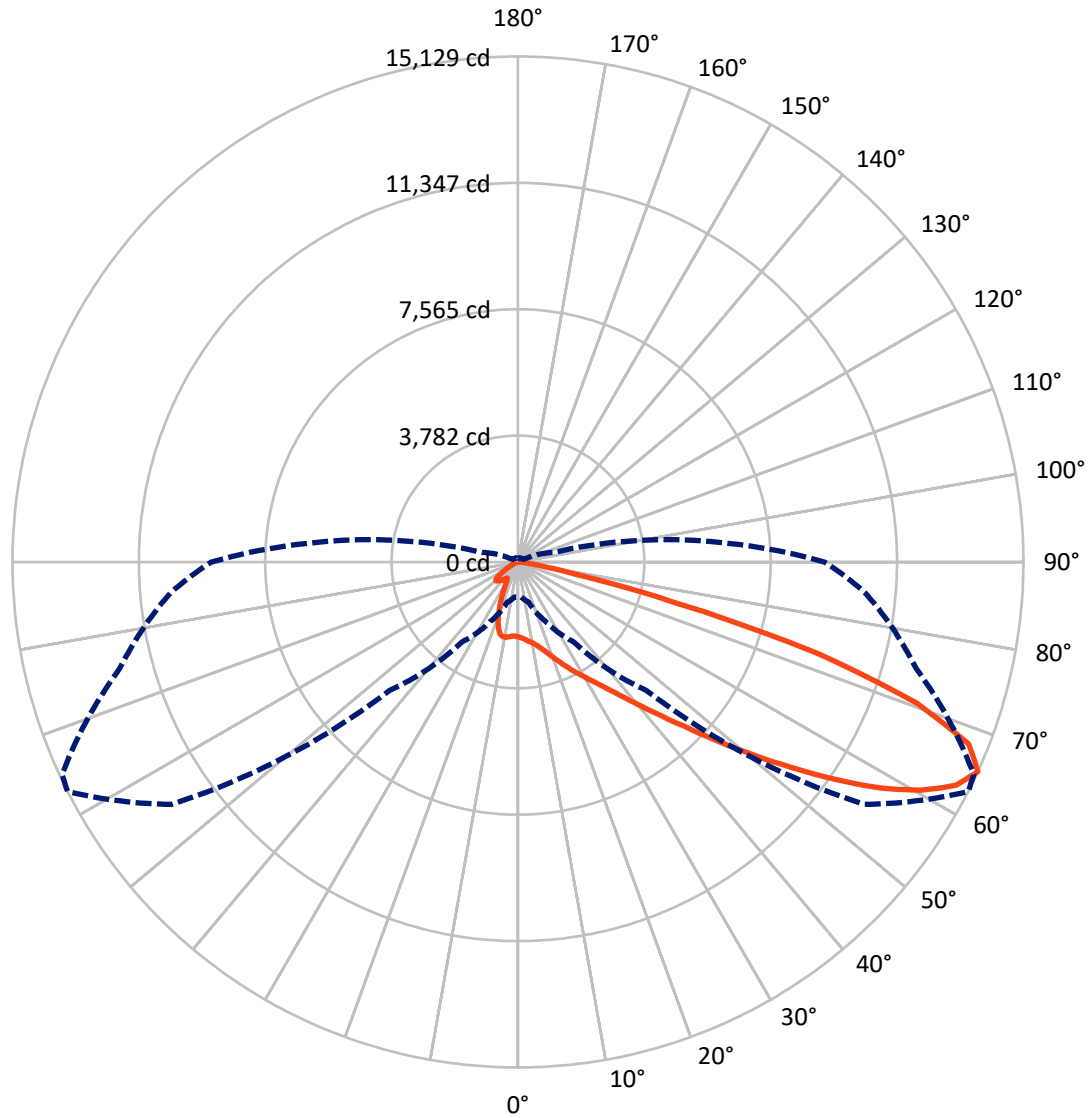
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2668.5 | 0.0 | 2668.5 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 15485.5 | 0.0 | 15485.5 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 18154.0 | 0.0 | 18154.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 211.1 | 1.2 |
| 10°-20° | 585.7 | 3.2 |
| 20°-30° | 1019.9 | 5.6 |
| 30°-40° | 1838.3 | 10.1 |
| 40°-50° | 3645.9 | 20.1 |
| 50°-60° | 4966.3 | 27.4 |
| 60°-70° | 3964.1 | 21.8 |
| 70°-80° | 1793.8 | 9.9 |
| 80°-90° | 128.9 | 0.7 |
| 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° | 18154.0 | 100.0 |
| 0°-180° | 18154.0 | 100.0 |

Coefficient of Utilization



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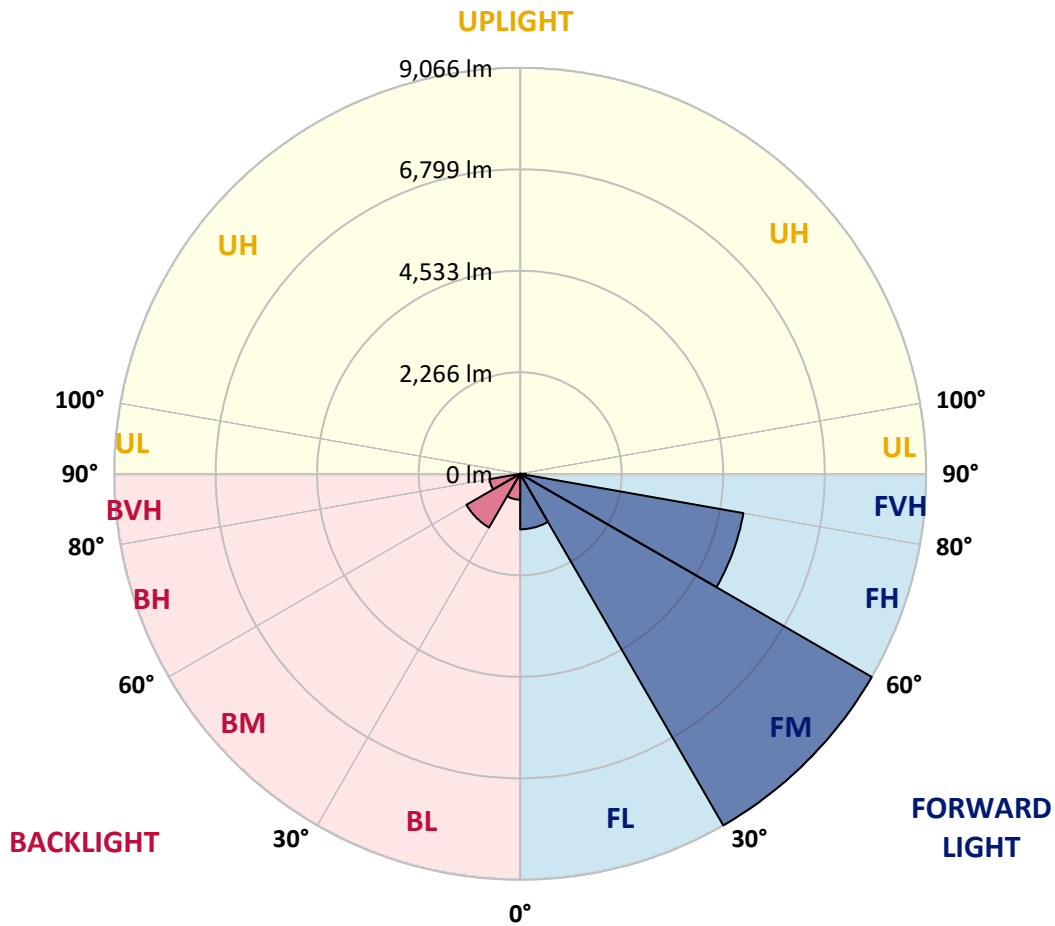
CATALOG NUMBER: GALN-SB6B-950-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1239.2 | 6.8 | | | |
| FM (30°-60°) | 9065.6 | 49.9 | | | |
| FH (60°-80°) | 5061.2 | 27.9 | | | G3/7500 |
| FVH (80°-90°) | 119.4 | 0.7 | | | G2/225 |
| BL (0°-30°) | 577.5 | 3.2 | B2/1000 | | |
| BM (30°-60°) | 1384.8 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 696.6 | 3.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 9.6 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 63° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2240.5 | 2240.5 | 2240.5 | 2240.5 | 2240.5 | 2240.5 | 2240.5 | 2240.5 | 2240.5 | 2240.5 |
| 2.5° | 2293.0 | 2286.8 | 2295.5 | 2291.8 | 2289.3 | 2284.3 | 2281.8 | 2279.3 | 2274.3 | 2270.5 |
| 5° | 2299.2 | 2295.5 | 2304.2 | 2311.7 | 2319.2 | 2326.7 | 2330.5 | 2335.5 | 2330.5 | 2320.5 |
| 7.5° | 2246.8 | 2244.3 | 2263.0 | 2285.5 | 2319.2 | 2348.0 | 2379.2 | 2396.7 | 2397.9 | 2394.2 |
| 10° | 2243.0 | 2236.8 | 2255.5 | 2283.0 | 2326.7 | 2377.9 | 2432.9 | 2470.3 | 2475.3 | 2491.6 |
| 12.5° | 2301.7 | 2295.5 | 2321.7 | 2351.7 | 2396.7 | 2450.4 | 2517.8 | 2570.3 | 2577.8 | 2600.2 |
| 15° | 2400.4 | 2391.7 | 2421.6 | 2460.4 | 2517.8 | 2579.0 | 2650.2 | 2697.6 | 2703.9 | 2731.4 |
| 17.5° | 2515.3 | 2506.6 | 2541.5 | 2582.7 | 2645.2 | 2728.9 | 2811.3 | 2863.8 | 2871.2 | 2888.7 |
| 20° | 2662.7 | 2651.4 | 2678.9 | 2716.4 | 2782.6 | 2882.5 | 2981.2 | 3056.1 | 3054.8 | 3054.8 |
| 22.5° | 2833.8 | 2816.3 | 2840.0 | 2870.0 | 2932.4 | 3053.6 | 3184.7 | 3273.4 | 3273.4 | 3238.4 |
| 25° | 3017.4 | 2999.9 | 3026.1 | 3053.6 | 3108.5 | 3245.9 | 3399.5 | 3509.4 | 3514.4 | 3454.5 |
| 27.5° | 3247.2 | 3224.7 | 3244.7 | 3277.1 | 3309.6 | 3449.5 | 3631.8 | 3759.2 | 3761.7 | 3669.3 |
| 30° | 3689.3 | 3625.6 | 3563.1 | 3528.2 | 3543.2 | 3681.8 | 3876.6 | 4017.7 | 4030.2 | 3902.8 |
| 32.5° | 4498.6 | 4486.1 | 4266.3 | 3979.0 | 3829.2 | 3931.6 | 4150.1 | 4320.0 | 4327.5 | 4163.9 |
| 35° | 5756.2 | 5741.2 | 5387.8 | 4840.8 | 4352.5 | 4266.3 | 4482.3 | 4683.4 | 4678.4 | 4493.6 |
| 37.5° | 7257.4 | 7243.7 | 6777.8 | 6046.0 | 5255.4 | 4772.1 | 4910.7 | 5121.8 | 5153.0 | 4910.7 |
| 40° | 8540.1 | 8488.8 | 8194.1 | 7488.5 | 6454.4 | 5611.4 | 5520.2 | 5660.1 | 5692.5 | 5405.3 |
| 42.5° | 9511.7 | 9468.0 | 9318.1 | 8877.3 | 7905.6 | 6852.8 | 6238.3 | 6292.0 | 6328.2 | 5983.5 |
| 45° | 10015.0 | 10005.0 | 10065.0 | 10023.8 | 9384.3 | 8376.4 | 7264.9 | 7041.4 | 7055.1 | 6624.2 |
| 47.5° | 10086.2 | 10081.2 | 10354.7 | 10741.9 | 10655.7 | 10094.9 | 8582.5 | 7975.5 | 7926.8 | 7347.3 |
| 50° | 9666.6 | 9656.6 | 10181.1 | 10906.7 | 11505.0 | 11538.7 | 10078.7 | 9028.4 | 8921.0 | 8095.4 |
| 52.5° | 8326.5 | 8324.0 | 9185.7 | 10393.4 | 11803.5 | 12802.6 | 11557.4 | 10184.9 | 10005.0 | 8887.3 |
| 55° | 6406.9 | 6453.1 | 7441.0 | 8868.5 | 11258.9 | 13410.8 | 12885.0 | 11468.8 | 11192.7 | 9684.1 |
| 57.5° | 4538.5 | 4606.0 | 5582.6 | 6854.0 | 9570.4 | 13051.1 | 13783.0 | 12755.1 | 12457.9 | 10478.4 |
| 60° | 2437.9 | 2497.8 | 3475.7 | 4993.1 | 7120.0 | 11709.8 | 14256.3 | 13871.7 | 13590.7 | 11232.7 |
| 62.5° | 1452.5 | 1472.5 | 1877.1 | 3223.4 | 4815.8 | 8946.0 | 14055.2 | 14722.2 | 14491.1 | 11865.9 |
| 65° | 1042.8 | 1046.6 | 1250.2 | 1968.3 | 2923.7 | 5435.3 | 12645.2 | 15129.3 | 15058.1 | 12343.0 |
| 67.5° | 878.0 | 875.5 | 960.4 | 1307.6 | 1992.0 | 2722.6 | 9691.6 | 14553.6 | 14855.8 | 12645.2 |
| 70° | 753.1 | 756.8 | 856.8 | 957.9 | 1497.4 | 1541.2 | 4818.3 | 12671.5 | 13315.9 | 12725.2 |
| 72.5° | 560.8 | 573.3 | 665.7 | 873.0 | 1130.3 | 1060.3 | 1663.5 | 9395.6 | 10560.8 | 11989.5 |
| 75° | 395.9 | 402.1 | 468.3 | 734.4 | 843.0 | 771.8 | 849.3 | 4857.0 | 6350.7 | 9192.0 |
| 77.5° | 304.7 | 316.0 | 354.7 | 513.3 | 830.5 | 542.0 | 519.5 | 1681.0 | 2582.7 | 5552.7 |
| 80° | 164.9 | 184.8 | 256.0 | 370.9 | 583.2 | 383.4 | 257.3 | 669.4 | 875.5 | 2596.5 |
| 82.5° | 84.9 | 94.9 | 178.6 | 267.3 | 332.2 | 334.7 | 127.4 | 278.5 | 360.9 | 801.8 |
| 85° | 33.7 | 41.2 | 119.9 | 147.4 | 171.1 | 164.9 | 57.4 | 112.4 | 129.9 | 222.3 |
| 87.5° | 7.5 | 12.5 | 43.7 | 33.7 | 32.5 | 35.0 | 13.7 | 26.2 | 25.0 | 26.2 |
| 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° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2240.5 | 0° | 2240.5 | 2240.5 | 2240.5 | 2240.5 | 2240.5 | 2240.5 | 2240.5 | 2240.5 | 2240.5 | 2240.5 |
| 2255.5 | 2.5° | 2254.3 | 2249.3 | 2235.6 | 2220.6 | 2203.1 | 2193.1 | 2186.8 | 2185.6 | 2176.9 | 2170.6 |
| 2305.5 | 5° | 2291.8 | 2286.8 | 2260.5 | 2229.3 | 2195.6 | 2169.4 | 2144.4 | 2121.9 | 2089.4 | 2083.2 |
| 2377.9 | 7.5° | 2366.7 | 2352.9 | 2310.5 | 2268.0 | 2204.3 | 2128.1 | 2035.7 | 1929.6 | 1834.7 | 1805.9 |
| 2474.1 | 10° | 2459.1 | 2440.4 | 2386.7 | 2311.7 | 2170.6 | 1963.3 | 1739.7 | 1532.4 | 1367.6 | 1321.3 |
| 2587.7 | 12.5° | 2564.0 | 2547.8 | 2476.6 | 2338.0 | 2029.5 | 1653.6 | 1311.4 | 1054.1 | 894.2 | 854.3 |
| 2708.9 | 15° | 2688.9 | 2665.2 | 2566.5 | 2298.0 | 1777.2 | 1256.4 | 900.5 | 748.1 | 690.6 | 683.2 |
| 2847.5 | 17.5° | 2821.3 | 2782.6 | 2646.4 | 2154.4 | 1437.5 | 893.0 | 695.6 | 651.9 | 627.0 | 619.5 |
| 2987.4 | 20° | 2942.4 | 2892.5 | 2693.9 | 1937.1 | 1074.1 | 695.6 | 623.2 | 594.5 | 572.0 | 563.3 |
| 3127.3 | 22.5° | 3063.6 | 2992.4 | 2693.9 | 1641.1 | 805.5 | 617.0 | 572.0 | 545.8 | 519.5 | 508.3 |
| 3277.1 | 25° | 3189.7 | 3094.8 | 2646.4 | 1311.4 | 648.2 | 565.8 | 523.3 | 494.6 | 472.1 | 458.4 |
| 3419.5 | 27.5° | 3312.1 | 3181.0 | 2537.8 | 999.1 | 577.0 | 520.8 | 478.3 | 450.9 | 429.6 | 419.6 |
| 3574.4 | 30° | 3428.3 | 3265.9 | 2385.4 | 758.1 | 530.8 | 477.1 | 437.1 | 413.4 | 392.2 | 382.2 |
| 3775.5 | 32.5° | 3585.6 | 3373.3 | 2223.1 | 622.0 | 490.8 | 435.9 | 399.7 | 377.2 | 358.4 | 350.9 |
| 4036.5 | 35° | 3804.2 | 3531.9 | 2083.2 | 610.7 | 457.1 | 402.1 | 365.9 | 344.7 | 326.0 | 319.7 |
| 4373.7 | 37.5° | 4113.9 | 3787.9 | 2009.5 | 685.7 | 429.6 | 372.2 | 338.5 | 316.0 | 298.5 | 293.5 |
| 4802.1 | 40° | 4496.1 | 4135.1 | 2049.5 | 760.6 | 410.9 | 345.9 | 313.5 | 291.0 | 276.0 | 269.8 |
| 5294.1 | 42.5° | 4949.4 | 4563.5 | 2270.5 | 818.0 | 398.4 | 323.5 | 289.7 | 264.8 | 254.8 | 252.3 |
| 5852.4 | 45° | 5470.2 | 5034.4 | 2609.0 | 879.2 | 378.4 | 302.2 | 266.0 | 247.3 | 239.8 | 238.5 |
| 6459.4 | 47.5° | 6062.2 | 5551.4 | 3001.1 | 955.4 | 358.4 | 282.3 | 247.3 | 234.8 | 228.6 | 226.1 |
| 7092.6 | 50° | 6649.2 | 6072.2 | 3404.5 | 997.9 | 342.2 | 263.5 | 232.3 | 222.3 | 217.3 | 216.1 |
| 7762.0 | 52.5° | 7263.7 | 6608.0 | 3730.5 | 957.9 | 328.5 | 248.5 | 219.8 | 212.3 | 207.3 | 206.1 |
| 8378.9 | 55° | 7849.4 | 7041.4 | 3786.7 | 813.0 | 301.0 | 233.5 | 206.1 | 202.3 | 196.1 | 196.1 |
| 9004.6 | 57.5° | 8354.0 | 7258.7 | 3389.5 | 597.0 | 273.5 | 211.1 | 192.3 | 188.6 | 183.6 | 182.3 |
| 9569.2 | 60° | 8817.3 | 7196.2 | 2616.5 | 402.1 | 243.5 | 188.6 | 174.8 | 172.3 | 167.4 | 161.1 |
| 10060.0 | 62.5° | 9078.3 | 6921.5 | 1789.7 | 262.3 | 213.6 | 164.9 | 154.9 | 153.6 | 142.4 | 129.9 |
| 10423.4 | 65° | 9177.0 | 6357.0 | 1116.5 | 191.1 | 178.6 | 141.1 | 133.6 | 131.1 | 114.9 | 101.2 |
| 10629.5 | 67.5° | 9090.8 | 5427.8 | 563.3 | 151.1 | 141.1 | 117.4 | 109.9 | 109.9 | 98.7 | 86.2 |
| 10617.0 | 70° | 8746.1 | 4069.0 | 237.3 | 121.1 | 108.7 | 89.9 | 89.9 | 94.9 | 83.7 | 69.9 |
| 10066.2 | 72.5° | 7998.0 | 2737.6 | 126.1 | 92.4 | 81.2 | 63.7 | 73.7 | 77.4 | 66.2 | 52.5 |
| 8239.1 | 75° | 6358.2 | 1669.8 | 87.4 | 68.7 | 51.2 | 45.0 | 56.2 | 58.7 | 45.0 | 35.0 |
| 5648.8 | 77.5° | 4348.7 | 959.2 | 58.7 | 43.7 | 32.5 | 26.2 | 38.7 | 36.2 | 23.7 | 16.2 |
| 2178.1 | 80° | 1909.6 | 399.7 | 33.7 | 20.0 | 12.5 | 10.0 | 13.7 | 10.0 | 7.5 | 5.0 |
| 298.5 | 82.5° | 223.6 | 93.7 | 12.5 | 7.5 | 5.0 | 2.5 | 1.2 | 0.0 | 0.0 | 0.0 |
| 91.2 | 85° | 46.2 | 11.2 | 6.2 | 2.5 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 16.2 | 87.5° | 8.7 | 2.5 | 1.2 | 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> |
| 2240.5 |
| 2176.9 |
| 2080.7 |
| 1792.2 |
| 1303.9 |
| 843.0 |
| 675.7 |
| 615.7 |
| 558.3 |
| 502.1 |
| 453.4 |
| 419.6 |
| 383.4 |
| 350.9 |
| 319.7 |
| 292.2 |
| 268.5 |
| 252.3 |
| 237.3 |
| 226.1 |
| 216.1 |
| 206.1 |
| 194.8 |
| 181.1 |
| 159.9 |
| 127.4 |
| 99.9 |
| 84.9 |
| 68.7 |
| 52.5 |
| 33.7 |
| 17.5 |
| 5.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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