

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: P941696

Luminaire Tested: **GALN-SB5B-835-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20692 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

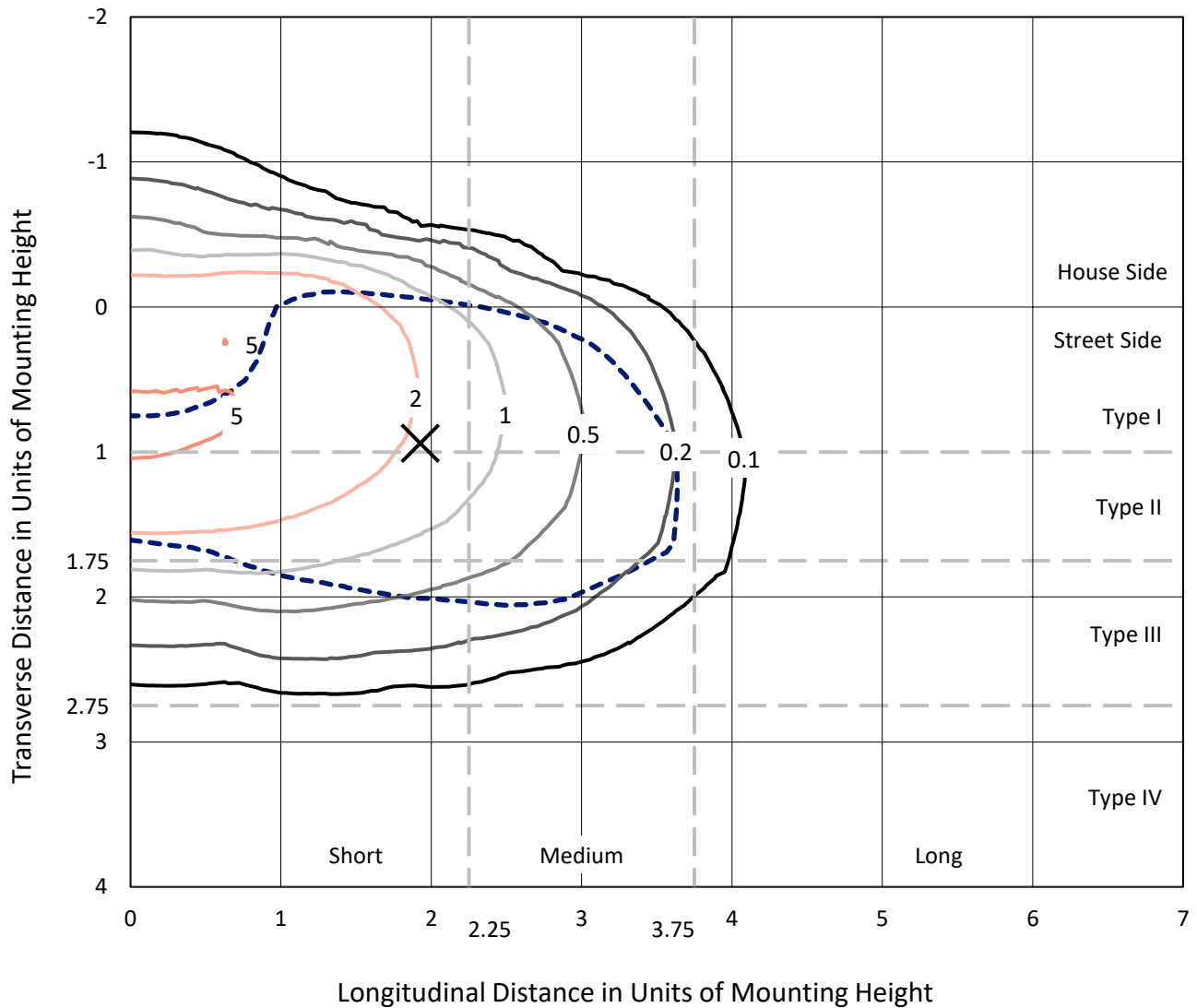
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

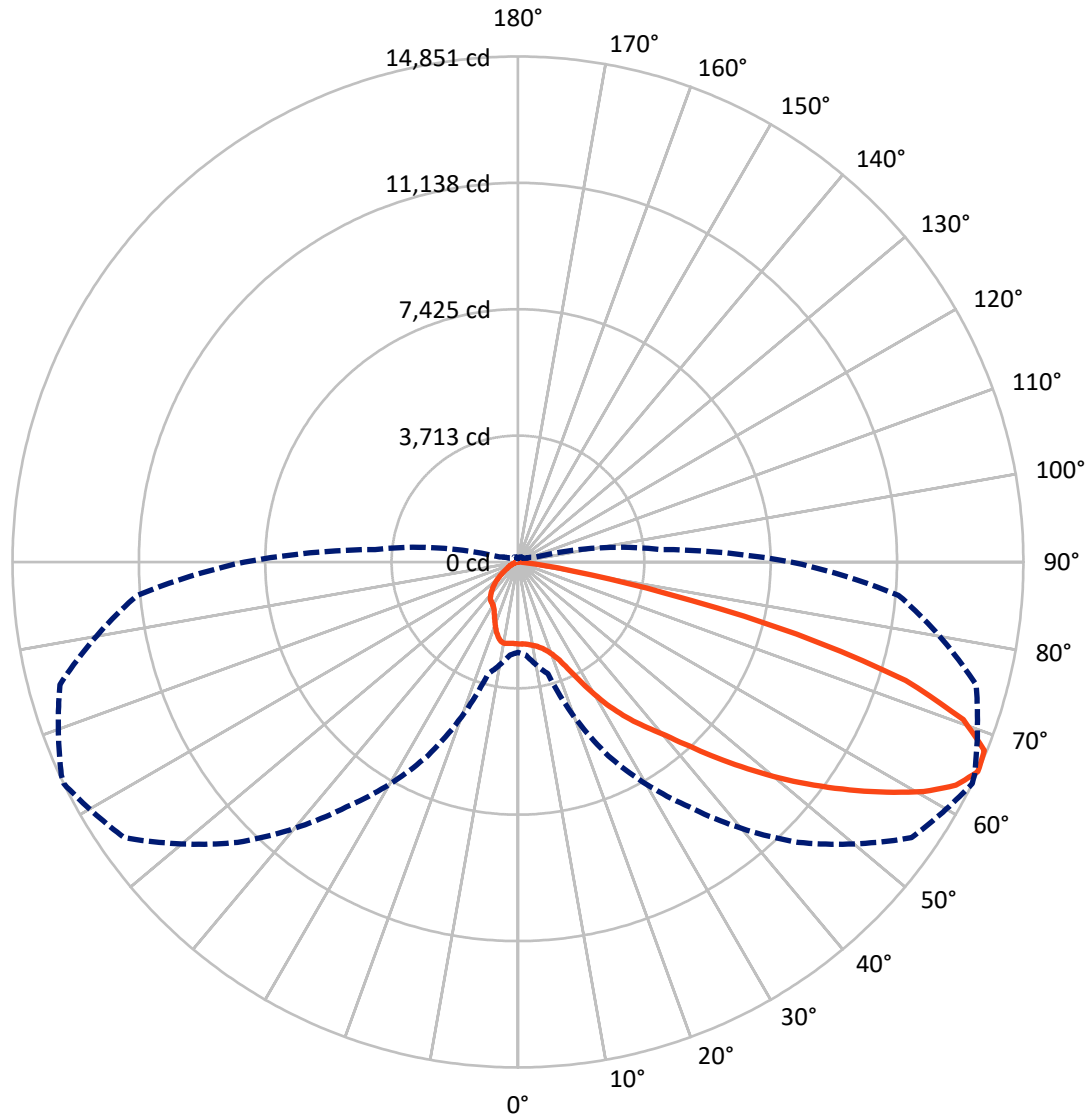
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2767.2 | 0.0 | 2767.2 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 17924.9 | 0.0 | 17924.9 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 20692.0 | 0.0 | 20692.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 222.0 | 1.1 |
| 10°-20° | 602.2 | 2.9 |
| 20°-30° | 1141.2 | 5.5 |
| 30°-40° | 2309.2 | 11.2 |
| 40°-50° | 3933.8 | 19.0 |
| 50°-60° | 5349.7 | 25.9 |
| 60°-70° | 5023.6 | 24.3 |
| 70°-80° | 2012.7 | 9.7 |
| 80°-90° | 97.5 | 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° | 20692.0 | 100.0 |
| 0°-180° | 20692.0 | 100.0 |

Coefficient of Utilization



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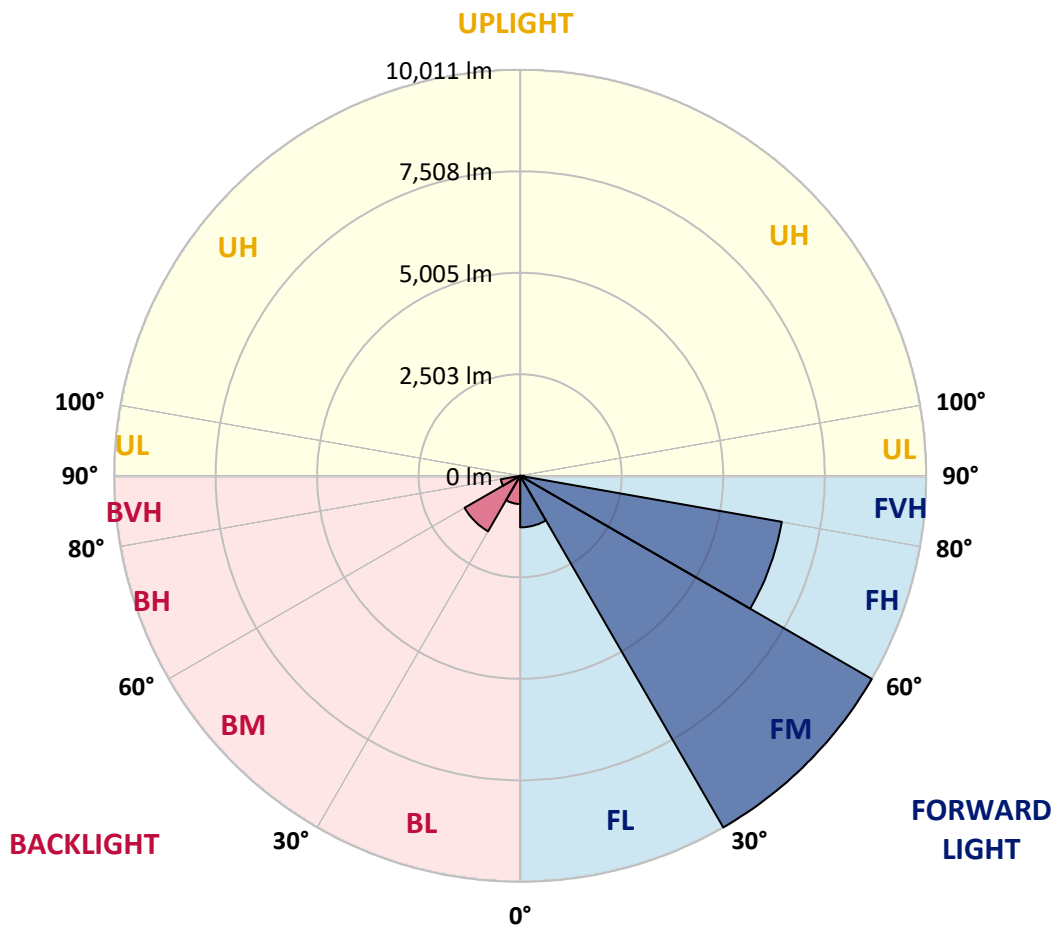
CATALOG NUMBER: GALN-SB5B-835-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1270.7 | 6.1 | | | |
| FM (30°-60°) | 10010.8 | 48.4 | | | |
| FH (60°-80°) | 6550.6 | 31.7 | | | G3/7500 |
| FVH (80°-90°) | 92.7 | 0.4 | | | G1/100 |
| BL (0°-30°) | 694.7 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 1582.0 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 485.7 | 2.3 | 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: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2406.7 | 2406.7 | 2406.7 | 2406.7 | 2406.7 | 2406.7 | 2406.7 | 2406.7 | 2406.7 | 2406.7 |
| 2.5° | 2398.4 | 2415.0 | 2410.9 | 2406.7 | 2405.3 | 2408.1 | 2409.5 | 2408.1 | 2408.1 | 2408.1 |
| 5° | 2352.6 | 2366.5 | 2366.5 | 2376.2 | 2390.0 | 2406.7 | 2419.2 | 2422.0 | 2424.7 | 2428.9 |
| 7.5° | 2265.2 | 2276.3 | 2284.6 | 2316.5 | 2351.2 | 2395.6 | 2433.1 | 2452.5 | 2455.2 | 2470.5 |
| 10° | 2205.6 | 2219.4 | 2233.3 | 2266.6 | 2316.5 | 2383.1 | 2446.9 | 2494.1 | 2501.0 | 2537.1 |
| 12.5° | 2202.8 | 2216.7 | 2234.7 | 2270.8 | 2329.0 | 2399.8 | 2477.4 | 2545.4 | 2557.9 | 2610.6 |
| 15° | 2231.9 | 2248.6 | 2265.2 | 2309.6 | 2372.0 | 2458.0 | 2541.2 | 2625.9 | 2638.3 | 2713.3 |
| 17.5° | 2291.6 | 2313.8 | 2326.2 | 2370.6 | 2437.2 | 2532.9 | 2642.5 | 2739.6 | 2750.7 | 2838.1 |
| 20° | 2409.5 | 2435.8 | 2440.0 | 2476.1 | 2541.2 | 2643.9 | 2774.3 | 2895.0 | 2908.8 | 3008.7 |
| 22.5° | 2653.6 | 2691.1 | 2657.8 | 2675.8 | 2734.1 | 2836.7 | 2978.2 | 3130.8 | 3150.2 | 3263.9 |
| 25° | 3083.6 | 3136.3 | 3050.3 | 3019.8 | 3044.8 | 3151.6 | 3329.1 | 3522.0 | 3544.2 | 3635.7 |
| 27.5° | 3928.4 | 3860.4 | 3730.0 | 3602.4 | 3527.5 | 3588.5 | 3788.3 | 4026.9 | 4054.6 | 4143.4 |
| 30° | 4856.4 | 4796.7 | 4620.6 | 4337.6 | 4160.0 | 4150.3 | 4334.8 | 4601.2 | 4633.1 | 4717.7 |
| 32.5° | 5785.8 | 5728.9 | 5537.5 | 5189.3 | 4881.4 | 4728.8 | 4856.4 | 5151.9 | 5168.5 | 5222.6 |
| 35° | 6699.9 | 6641.6 | 6450.2 | 6093.7 | 5715.0 | 5368.2 | 5343.3 | 5676.2 | 5681.7 | 5738.6 |
| 37.5° | 7619.6 | 7571.0 | 7367.1 | 7017.6 | 6644.4 | 6165.9 | 5934.2 | 6172.8 | 6179.7 | 6235.2 |
| 40° | 8275.7 | 8296.5 | 8156.4 | 7885.9 | 7565.5 | 7042.5 | 6597.3 | 6701.3 | 6659.7 | 6752.6 |
| 42.5° | 8838.9 | 8880.5 | 8758.4 | 8622.5 | 8436.6 | 7976.1 | 7418.4 | 7400.4 | 7333.8 | 7383.8 |
| 45° | 9325.8 | 9360.4 | 9250.9 | 9219.0 | 9214.8 | 8891.6 | 8315.9 | 8207.7 | 8114.8 | 8105.1 |
| 47.5° | 9504.7 | 9571.3 | 9618.5 | 9725.3 | 9933.3 | 9797.4 | 9243.9 | 9076.1 | 8972.0 | 8895.8 |
| 50° | 9572.7 | 9643.4 | 9804.3 | 10115.1 | 10607.5 | 10665.7 | 10167.8 | 9979.1 | 9851.5 | 9712.8 |
| 52.5° | 9481.1 | 9607.4 | 9823.8 | 10346.7 | 11061.1 | 11362.1 | 11054.1 | 10889.1 | 10743.4 | 10517.3 |
| 55° | 8941.5 | 9067.8 | 9510.3 | 10343.9 | 11287.2 | 11850.4 | 11892.0 | 11818.5 | 11654.8 | 11298.3 |
| 57.5° | 7804.1 | 7991.3 | 8691.8 | 9991.6 | 11283.0 | 12270.7 | 12713.2 | 12765.9 | 12582.8 | 12072.3 |
| 60° | 6228.3 | 6482.1 | 7336.6 | 9210.6 | 10934.9 | 12498.2 | 13433.1 | 13696.7 | 13502.5 | 12835.2 |
| 62.5° | 4345.9 | 4640.0 | 5448.7 | 7987.2 | 10138.6 | 12334.5 | 13958.8 | 14445.7 | 14298.7 | 13517.7 |
| 65° | 2650.8 | 2745.2 | 3397.1 | 6285.1 | 8784.8 | 11649.2 | 14121.1 | 14850.8 | 14802.2 | 13935.2 |
| 67.5° | 1765.8 | 1844.9 | 2032.2 | 4309.9 | 6819.2 | 10280.1 | 13732.7 | 14780.0 | 14793.9 | 13867.3 |
| 70° | 1063.9 | 1131.9 | 1254.0 | 2506.6 | 4419.4 | 8137.0 | 12530.1 | 13878.4 | 13958.8 | 12958.7 |
| 72.5° | 438.3 | 484.1 | 595.1 | 1136.1 | 2288.8 | 5164.3 | 9977.7 | 11915.6 | 12102.8 | 10896.0 |
| 75° | 248.3 | 271.9 | 349.6 | 570.1 | 993.2 | 2406.7 | 6043.8 | 8458.8 | 8734.8 | 7510.0 |
| 77.5° | 165.1 | 176.2 | 226.1 | 369.0 | 559.0 | 821.2 | 2582.9 | 4407.0 | 4934.1 | 4101.8 |
| 80° | 111.0 | 120.7 | 155.4 | 246.9 | 363.4 | 352.3 | 822.6 | 1632.7 | 2008.6 | 1409.3 |
| 82.5° | 74.9 | 76.3 | 111.0 | 162.3 | 230.3 | 170.6 | 242.8 | 507.7 | 638.1 | 407.8 |
| 85° | 43.0 | 41.6 | 81.8 | 94.3 | 102.6 | 70.7 | 73.5 | 152.6 | 199.7 | 172.0 |
| 87.5° | 5.5 | 8.3 | 31.9 | 25.0 | 13.9 | 15.3 | 15.3 | 26.4 | 38.8 | 41.6 |
| 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° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2406.7 | 0° | 2406.7 | 2406.7 | 2406.7 | 2406.7 | 2406.7 | 2406.7 | 2406.7 | 2406.7 | 2406.7 | 2406.7 |
| 2409.5 | 2.5° | 2409.5 | 2408.1 | 2403.9 | 2399.8 | 2390.0 | 2384.5 | 2387.3 | 2384.5 | 2383.1 | 2384.5 |
| 2427.5 | 5° | 2427.5 | 2423.3 | 2412.2 | 2398.4 | 2379.0 | 2355.4 | 2340.1 | 2317.9 | 2297.1 | 2284.6 |
| 2476.1 | 7.5° | 2476.1 | 2471.9 | 2456.6 | 2417.8 | 2355.4 | 2256.9 | 2166.7 | 2087.7 | 2028.0 | 1993.3 |
| 2553.7 | 10° | 2553.7 | 2546.8 | 2523.2 | 2437.2 | 2273.5 | 2058.5 | 1879.6 | 1731.2 | 1634.1 | 1588.3 |
| 2645.3 | 12.5° | 2645.3 | 2637.0 | 2595.3 | 2419.2 | 2118.2 | 1782.5 | 1535.6 | 1370.5 | 1280.3 | 1240.1 |
| 2750.7 | 15° | 2753.5 | 2742.4 | 2660.5 | 2333.2 | 1892.1 | 1477.3 | 1251.2 | 1127.7 | 1069.5 | 1033.4 |
| 2885.3 | 17.5° | 2888.0 | 2868.6 | 2709.1 | 2204.2 | 1646.5 | 1244.3 | 1076.4 | 983.5 | 932.2 | 897.5 |
| 3061.4 | 20° | 3062.8 | 3030.9 | 2747.9 | 2050.2 | 1420.4 | 1097.2 | 958.5 | 880.8 | 842.0 | 811.5 |
| 3311.1 | 22.5° | 3307.0 | 3261.2 | 2795.1 | 1883.7 | 1260.9 | 996.0 | 871.1 | 814.3 | 782.3 | 747.7 |
| 3659.3 | 25° | 3609.3 | 3555.2 | 2853.4 | 1729.8 | 1151.3 | 908.6 | 807.3 | 760.2 | 722.7 | 682.5 |
| 4115.7 | 27.5° | 4032.4 | 3935.3 | 2922.7 | 1603.5 | 1057.0 | 833.7 | 749.1 | 696.3 | 653.3 | 620.1 |
| 4633.1 | 30° | 4504.1 | 4344.5 | 2983.7 | 1527.2 | 971.0 | 764.3 | 672.8 | 620.1 | 579.8 | 556.2 |
| 5097.8 | 32.5° | 4950.7 | 4734.3 | 3024.0 | 1494.0 | 893.3 | 685.2 | 589.5 | 532.7 | 502.1 | 495.2 |
| 5552.7 | 35° | 5372.4 | 5086.7 | 3019.8 | 1462.0 | 824.0 | 606.2 | 507.7 | 449.4 | 425.9 | 430.0 |
| 6042.4 | 37.5° | 5857.9 | 5462.6 | 2990.7 | 1412.1 | 767.1 | 534.1 | 437.0 | 385.6 | 364.8 | 366.2 |
| 6637.5 | 40° | 6422.5 | 5896.7 | 2972.6 | 1317.8 | 704.7 | 467.5 | 378.7 | 337.1 | 321.8 | 316.3 |
| 7264.5 | 42.5° | 7024.5 | 6317.1 | 2975.4 | 1211.0 | 627.0 | 407.8 | 338.5 | 303.8 | 289.9 | 285.8 |
| 7962.2 | 45° | 7629.3 | 6717.9 | 2979.6 | 1100.0 | 545.1 | 362.0 | 309.3 | 280.2 | 271.9 | 266.3 |
| 8669.6 | 47.5° | 8198.0 | 7059.2 | 2901.9 | 980.7 | 464.7 | 327.4 | 285.8 | 266.3 | 259.4 | 252.5 |
| 9379.9 | 50° | 8727.9 | 7286.7 | 2714.6 | 842.0 | 400.9 | 299.6 | 267.7 | 253.8 | 246.9 | 240.0 |
| 10023.5 | 52.5° | 9139.9 | 7322.7 | 2405.3 | 699.1 | 356.5 | 278.8 | 256.6 | 244.1 | 235.8 | 228.9 |
| 10543.7 | 55° | 9323.0 | 7096.6 | 1965.6 | 566.0 | 321.8 | 260.8 | 245.5 | 233.0 | 223.3 | 216.4 |
| 10952.9 | 57.5° | 9275.8 | 6620.8 | 1532.8 | 455.0 | 288.5 | 242.8 | 231.7 | 223.3 | 212.2 | 201.1 |
| 11284.4 | 60° | 9044.2 | 5984.1 | 1155.5 | 378.7 | 258.0 | 223.3 | 216.4 | 209.5 | 194.2 | 177.6 |
| 11412.0 | 62.5° | 8643.3 | 5183.8 | 824.0 | 313.5 | 224.7 | 201.1 | 198.4 | 192.8 | 170.6 | 140.1 |
| 11223.4 | 65° | 8030.2 | 4211.4 | 554.9 | 260.8 | 192.8 | 176.2 | 177.6 | 167.8 | 138.7 | 104.0 |
| 10532.6 | 67.5° | 7134.1 | 3079.5 | 355.1 | 213.6 | 160.9 | 147.0 | 148.4 | 142.9 | 117.9 | 88.8 |
| 9223.1 | 70° | 5992.5 | 2039.1 | 231.7 | 162.3 | 129.0 | 113.7 | 122.1 | 123.5 | 99.9 | 72.1 |
| 7078.6 | 72.5° | 4393.1 | 1204.0 | 162.3 | 120.7 | 94.3 | 79.1 | 99.9 | 102.6 | 80.5 | 54.1 |
| 4258.5 | 75° | 2503.8 | 571.5 | 122.1 | 87.4 | 58.3 | 55.5 | 77.7 | 77.7 | 55.5 | 36.1 |
| 1843.5 | 77.5° | 1051.5 | 238.6 | 86.0 | 56.9 | 33.3 | 31.9 | 52.7 | 48.6 | 27.7 | 16.6 |
| 449.4 | 80° | 303.8 | 106.8 | 45.8 | 27.7 | 13.9 | 12.5 | 20.8 | 15.3 | 6.9 | 2.8 |
| 170.6 | 82.5° | 119.3 | 47.2 | 18.0 | 11.1 | 5.5 | 5.5 | 2.8 | 0.0 | 0.0 | 0.0 |
| 97.1 | 85° | 70.7 | 19.4 | 8.3 | 4.2 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20.8 | 87.5° | 18.0 | 4.2 | 2.8 | 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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|--------|
| 180° |
| 2406.7 |
| 2390.0 |
| 2287.4 |
| 1994.7 |
| 1584.1 |
| 1235.9 |
| 1034.8 |
| 894.7 |
| 805.9 |
| 742.1 |
| 678.3 |
| 613.1 |
| 552.1 |
| 499.4 |
| 430.0 |
| 371.8 |
| 314.9 |
| 284.4 |
| 266.3 |
| 252.5 |
| 240.0 |
| 227.5 |
| 215.0 |
| 199.7 |
| 174.8 |
| 137.3 |
| 101.3 |
| 84.6 |
| 69.4 |
| 51.3 |
| 33.3 |
| 16.6 |
| 2.8 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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