

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: P941686

Luminaire Tested: **GALN-SB5B-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941686
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-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 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: 20045 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

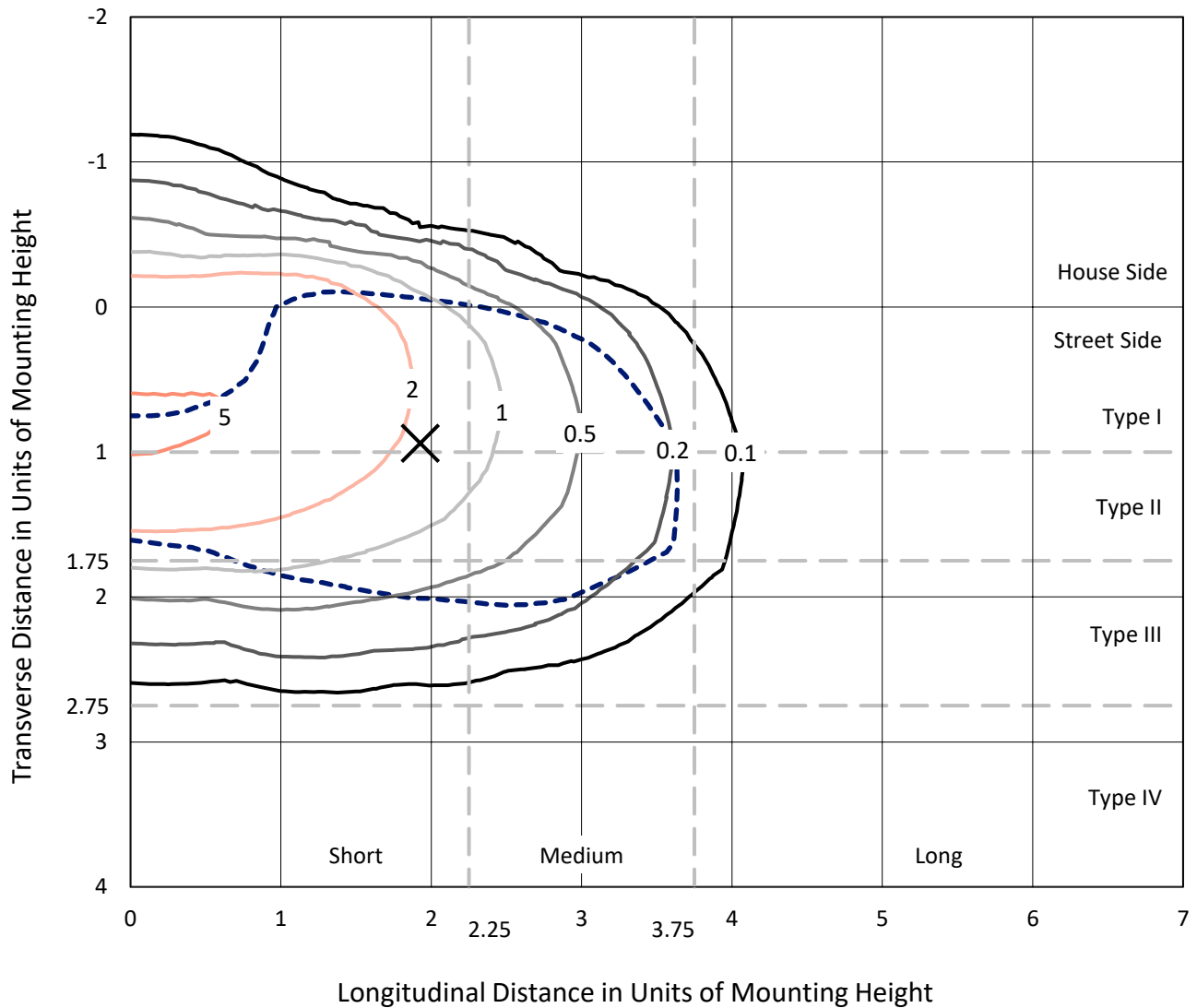
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

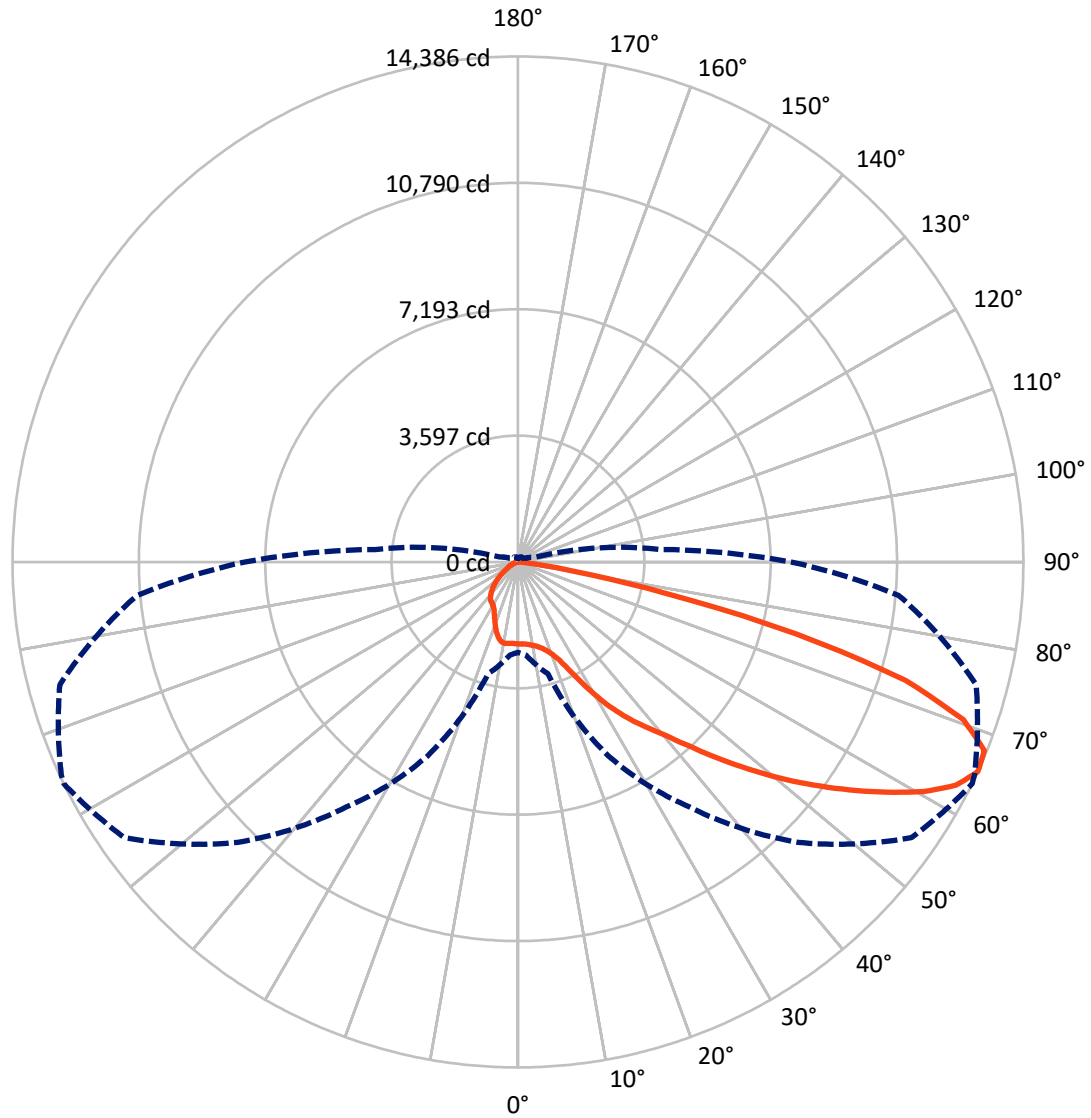
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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 | 2680.6 | 0.0 | 2680.6 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 17364.4 | 0.0 | 17364.4 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 20045.0 | 0.0 | 20045.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 215.1 | 1.1 |
| 10°-20° | 583.4 | 2.9 |
| 20°-30° | 1105.5 | 5.5 |
| 30°-40° | 2237.0 | 11.2 |
| 40°-50° | 3810.8 | 19.0 |
| 50°-60° | 5182.4 | 25.9 |
| 60°-70° | 4866.5 | 24.3 |
| 70°-80° | 1949.7 | 9.7 |
| 80°-90° | 94.5 | 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° | 20045.0 | 100.0 |
| 0°-180° | 20045.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P941686

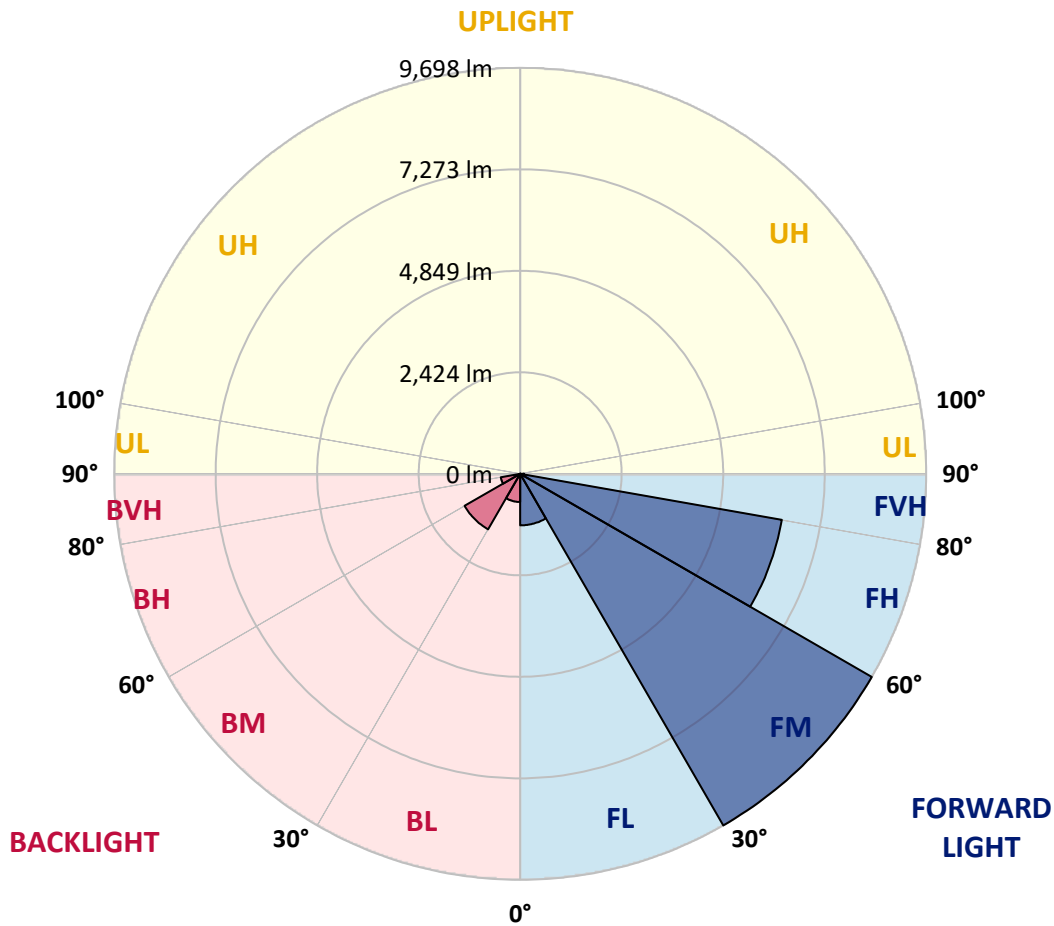
CATALOG NUMBER: GALN-SB5B-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1231.0 | 6.1 | | | |
| FM (30°-60°) | 9697.8 | 48.4 | | | |
| FH (60°-80°) | 6345.8 | 31.7 | | | G3/7500 |
| FVH (80°-90°) | 89.8 | 0.4 | | | G1/100 |
| BL (0°-30°) | 673.0 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 1532.5 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 470.5 | 2.3 | 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: B2-U0-G3

Type III Short



REPORT NUMBER: P941686

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2331.4 | 2331.4 | 2331.4 | 2331.4 | 2331.4 | 2331.4 | 2331.4 | 2331.4 | 2331.4 | 2331.4 |
| 2.5° | 2323.4 | 2339.5 | 2335.5 | 2331.4 | 2330.1 | 2332.8 | 2334.1 | 2332.8 | 2332.8 | 2332.8 |
| 5° | 2279.0 | 2292.5 | 2292.5 | 2301.9 | 2315.3 | 2331.4 | 2343.5 | 2346.2 | 2348.9 | 2352.9 |
| 7.5° | 2194.4 | 2205.1 | 2213.2 | 2244.1 | 2277.7 | 2320.7 | 2357.0 | 2375.8 | 2378.5 | 2393.3 |
| 10° | 2136.6 | 2150.0 | 2163.5 | 2195.7 | 2244.1 | 2308.6 | 2370.4 | 2416.1 | 2422.8 | 2457.8 |
| 12.5° | 2133.9 | 2147.3 | 2164.8 | 2199.8 | 2256.2 | 2324.7 | 2400.0 | 2465.8 | 2477.9 | 2529.0 |
| 15° | 2162.1 | 2178.3 | 2194.4 | 2237.4 | 2297.8 | 2381.2 | 2461.8 | 2543.8 | 2555.9 | 2628.4 |
| 17.5° | 2219.9 | 2241.4 | 2253.5 | 2296.5 | 2361.0 | 2453.7 | 2559.9 | 2653.9 | 2664.7 | 2749.4 |
| 20° | 2334.1 | 2359.7 | 2363.7 | 2398.6 | 2461.8 | 2561.2 | 2687.5 | 2804.4 | 2817.9 | 2914.6 |
| 22.5° | 2570.6 | 2606.9 | 2574.7 | 2592.1 | 2648.6 | 2748.0 | 2885.1 | 3032.9 | 3051.7 | 3161.9 |
| 25° | 2987.2 | 3038.3 | 2955.0 | 2925.4 | 2949.6 | 3053.0 | 3225.0 | 3411.8 | 3433.3 | 3522.0 |
| 27.5° | 3805.6 | 3739.7 | 3613.4 | 3489.8 | 3417.2 | 3476.3 | 3669.8 | 3901.0 | 3927.8 | 4013.8 |
| 30° | 4704.5 | 4646.8 | 4476.1 | 4202.0 | 4030.0 | 4020.6 | 4199.3 | 4457.3 | 4488.2 | 4570.2 |
| 32.5° | 5604.9 | 5549.8 | 5364.3 | 5027.0 | 4728.7 | 4580.9 | 4704.5 | 4990.8 | 5006.9 | 5059.3 |
| 35° | 6490.4 | 6434.0 | 6248.5 | 5903.2 | 5536.3 | 5200.4 | 5176.2 | 5498.7 | 5504.1 | 5559.2 |
| 37.5° | 7381.3 | 7334.3 | 7136.8 | 6798.1 | 6436.7 | 5973.1 | 5748.6 | 5979.8 | 5986.5 | 6040.2 |
| 40° | 8016.9 | 8037.1 | 7901.4 | 7639.3 | 7328.9 | 6822.3 | 6391.0 | 6491.8 | 6451.4 | 6541.5 |
| 42.5° | 8562.5 | 8602.8 | 8484.6 | 8352.9 | 8172.8 | 7726.7 | 7186.5 | 7169.0 | 7104.5 | 7152.9 |
| 45° | 9034.2 | 9067.8 | 8961.6 | 8930.7 | 8926.7 | 8613.6 | 8055.9 | 7951.1 | 7861.1 | 7851.7 |
| 47.5° | 9207.5 | 9272.0 | 9317.7 | 9421.2 | 9622.7 | 9491.1 | 8954.9 | 8792.3 | 8691.5 | 8617.6 |
| 50° | 9273.4 | 9341.9 | 9497.8 | 9798.8 | 10275.8 | 10332.3 | 9849.8 | 9667.1 | 9543.5 | 9409.1 |
| 52.5° | 9184.7 | 9307.0 | 9516.6 | 10023.2 | 10715.2 | 11006.8 | 10708.5 | 10548.6 | 10407.5 | 10188.5 |
| 55° | 8661.9 | 8784.2 | 9212.9 | 10020.5 | 10934.3 | 11479.8 | 11520.1 | 11448.9 | 11290.4 | 10945.0 |
| 57.5° | 7560.1 | 7741.5 | 8420.1 | 9679.2 | 10930.2 | 11887.0 | 12315.7 | 12366.7 | 12189.3 | 11694.8 |
| 60° | 6033.5 | 6279.4 | 7107.2 | 8922.6 | 10592.9 | 12107.4 | 13013.1 | 13268.4 | 13080.3 | 12433.9 |
| 62.5° | 4210.0 | 4494.9 | 5278.3 | 7737.4 | 9821.6 | 11948.8 | 13522.4 | 13994.0 | 13851.6 | 13095.0 |
| 65° | 2567.9 | 2659.3 | 3290.9 | 6088.6 | 8510.1 | 11285.0 | 13679.6 | 14386.4 | 14339.4 | 13499.5 |
| 67.5° | 1710.6 | 1787.2 | 1968.6 | 4175.1 | 6606.0 | 9958.7 | 13303.3 | 14317.9 | 14331.3 | 13433.7 |
| 70° | 1030.7 | 1096.5 | 1214.8 | 2428.2 | 4281.3 | 7882.6 | 12138.3 | 13444.4 | 13522.4 | 12553.5 |
| 72.5° | 424.6 | 469.0 | 576.5 | 1100.5 | 2217.2 | 5002.9 | 9665.7 | 11543.0 | 11724.4 | 10555.3 |
| 75° | 240.5 | 263.4 | 338.6 | 552.3 | 962.1 | 2331.4 | 5854.8 | 8194.3 | 8461.7 | 7275.2 |
| 77.5° | 159.9 | 170.7 | 219.0 | 357.4 | 541.5 | 795.5 | 2502.1 | 4269.2 | 4779.8 | 3973.5 |
| 80° | 107.5 | 116.9 | 150.5 | 239.2 | 352.1 | 341.3 | 796.9 | 1581.6 | 1945.8 | 1365.3 |
| 82.5° | 72.6 | 73.9 | 107.5 | 157.2 | 223.1 | 165.3 | 235.2 | 491.8 | 618.1 | 395.1 |
| 85° | 41.7 | 40.3 | 79.3 | 91.4 | 99.4 | 68.5 | 71.2 | 147.8 | 193.5 | 166.6 |
| 87.5° | 5.4 | 8.1 | 30.9 | 24.2 | 13.4 | 14.8 | 14.8 | 25.5 | 37.6 | 40.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P941686
 CATALOG NUMBER: GALN-SB5B-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2331.4 | 0° | 2331.4 | 2331.4 | 2331.4 | 2331.4 | 2331.4 | 2331.4 | 2331.4 | 2331.4 | 2331.4 | 2331.4 |
| 2334.1 | 2.5° | 2334.1 | 2332.8 | 2328.8 | 2324.7 | 2315.3 | 2309.9 | 2312.6 | 2309.9 | 2308.6 | 2309.9 |
| 2351.6 | 5° | 2351.6 | 2347.6 | 2336.8 | 2323.4 | 2304.6 | 2281.7 | 2266.9 | 2245.4 | 2225.3 | 2213.2 |
| 2398.6 | 7.5° | 2398.6 | 2394.6 | 2379.8 | 2342.2 | 2281.7 | 2186.3 | 2099.0 | 2022.4 | 1964.6 | 1931.0 |
| 2473.9 | 10° | 2473.9 | 2467.2 | 2444.3 | 2361.0 | 2202.4 | 1994.2 | 1820.8 | 1677.0 | 1583.0 | 1538.6 |
| 2562.6 | 12.5° | 2562.6 | 2554.5 | 2514.2 | 2343.5 | 2051.9 | 1726.7 | 1487.6 | 1327.6 | 1240.3 | 1201.3 |
| 2664.7 | 15° | 2667.4 | 2656.6 | 2577.4 | 2260.2 | 1832.9 | 1431.1 | 1212.1 | 1092.5 | 1036.0 | 1001.1 |
| 2795.0 | 17.5° | 2797.7 | 2778.9 | 2624.4 | 2135.3 | 1595.1 | 1205.4 | 1042.8 | 952.7 | 903.0 | 869.4 |
| 2965.7 | 20° | 2967.0 | 2936.1 | 2662.0 | 1986.1 | 1376.0 | 1062.9 | 928.5 | 853.3 | 815.7 | 786.1 |
| 3207.6 | 22.5° | 3203.5 | 3159.2 | 2707.7 | 1824.8 | 1221.5 | 964.8 | 843.9 | 788.8 | 757.9 | 724.3 |
| 3544.9 | 25° | 3496.5 | 3444.1 | 2764.1 | 1675.7 | 1115.3 | 880.2 | 782.1 | 736.4 | 700.1 | 661.1 |
| 3987.0 | 27.5° | 3906.3 | 3812.3 | 2831.3 | 1553.4 | 1024.0 | 807.6 | 725.6 | 674.6 | 632.9 | 600.7 |
| 4488.2 | 30° | 4363.2 | 4208.7 | 2890.5 | 1479.5 | 940.6 | 740.4 | 651.7 | 600.7 | 561.7 | 538.9 |
| 4938.4 | 32.5° | 4795.9 | 4586.3 | 2929.4 | 1447.2 | 865.4 | 663.8 | 571.1 | 516.0 | 486.4 | 479.7 |
| 5379.1 | 35° | 5204.4 | 4927.6 | 2925.4 | 1416.3 | 798.2 | 587.2 | 491.8 | 435.4 | 412.5 | 416.6 |
| 5853.5 | 37.5° | 5674.7 | 5291.8 | 2897.2 | 1368.0 | 743.1 | 517.4 | 423.3 | 373.6 | 353.4 | 354.8 |
| 6429.9 | 40° | 6221.7 | 5712.4 | 2879.7 | 1276.6 | 682.6 | 452.9 | 366.8 | 326.5 | 311.8 | 306.4 |
| 7037.3 | 42.5° | 6804.9 | 6119.5 | 2882.4 | 1173.1 | 607.4 | 395.1 | 327.9 | 294.3 | 280.8 | 276.8 |
| 7713.2 | 45° | 7390.7 | 6507.9 | 2886.4 | 1065.6 | 528.1 | 350.7 | 299.7 | 271.4 | 263.4 | 258.0 |
| 8398.6 | 47.5° | 7941.7 | 6838.4 | 2811.2 | 950.0 | 450.2 | 317.1 | 276.8 | 258.0 | 251.3 | 244.6 |
| 9086.6 | 50° | 8455.0 | 7058.8 | 2629.8 | 815.7 | 388.3 | 290.3 | 259.3 | 245.9 | 239.2 | 232.5 |
| 9710.1 | 52.5° | 8854.1 | 7093.8 | 2330.1 | 677.3 | 345.3 | 270.1 | 248.6 | 236.5 | 228.4 | 221.7 |
| 10214.0 | 55° | 9031.5 | 6874.7 | 1904.1 | 548.3 | 311.8 | 252.6 | 237.8 | 225.8 | 216.3 | 209.6 |
| 10610.4 | 57.5° | 8985.8 | 6413.8 | 1484.9 | 440.8 | 279.5 | 235.2 | 224.4 | 216.3 | 205.6 | 194.8 |
| 10931.6 | 60° | 8761.4 | 5797.0 | 1119.4 | 366.8 | 249.9 | 216.3 | 209.6 | 202.9 | 188.1 | 172.0 |
| 11055.2 | 62.5° | 8373.0 | 5021.7 | 798.2 | 303.7 | 217.7 | 194.8 | 192.2 | 186.8 | 165.3 | 135.7 |
| 10872.4 | 65° | 7779.1 | 4079.7 | 537.5 | 252.6 | 186.8 | 170.7 | 172.0 | 162.6 | 134.4 | 100.8 |
| 10203.2 | 67.5° | 6911.0 | 2983.2 | 344.0 | 206.9 | 155.9 | 142.4 | 143.8 | 138.4 | 114.2 | 86.0 |
| 8934.7 | 70° | 5805.1 | 1975.3 | 224.4 | 157.2 | 125.0 | 110.2 | 118.3 | 119.6 | 96.8 | 69.9 |
| 6857.3 | 72.5° | 4255.7 | 1166.4 | 157.2 | 116.9 | 91.4 | 76.6 | 96.8 | 99.4 | 77.9 | 52.4 |
| 4125.4 | 75° | 2425.5 | 553.6 | 118.3 | 84.7 | 56.4 | 53.8 | 75.3 | 75.3 | 53.8 | 34.9 |
| 1785.9 | 77.5° | 1018.6 | 231.1 | 83.3 | 55.1 | 32.3 | 30.9 | 51.1 | 47.0 | 26.9 | 16.1 |
| 435.4 | 80° | 294.3 | 103.5 | 44.3 | 26.9 | 13.4 | 12.1 | 20.2 | 14.8 | 6.7 | 2.7 |
| 165.3 | 82.5° | 115.6 | 45.7 | 17.5 | 10.8 | 5.4 | 5.4 | 2.7 | 0.0 | 0.0 | 0.0 |
| 94.1 | 85° | 68.5 | 18.8 | 8.1 | 4.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20.2 | 87.5° | 17.5 | 4.0 | 2.7 | 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> |
| 2331.4 |
| 2315.3 |
| 2215.9 |
| 1932.3 |
| 1534.6 |
| 1197.3 |
| 1002.5 |
| 866.7 |
| 780.7 |
| 718.9 |
| 657.1 |
| 593.9 |
| 534.8 |
| 483.8 |
| 416.6 |
| 360.1 |
| 305.0 |
| 275.5 |
| 258.0 |
| 244.6 |
| 232.5 |
| 220.4 |
| 208.3 |
| 193.5 |
| 169.3 |
| 133.0 |
| 98.1 |
| 82.0 |
| 67.2 |
| 49.7 |
| 32.3 |
| 16.1 |
| 2.7 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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