

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: P941175

Luminaire Tested: **GALN-SB4C-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-830-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26723 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

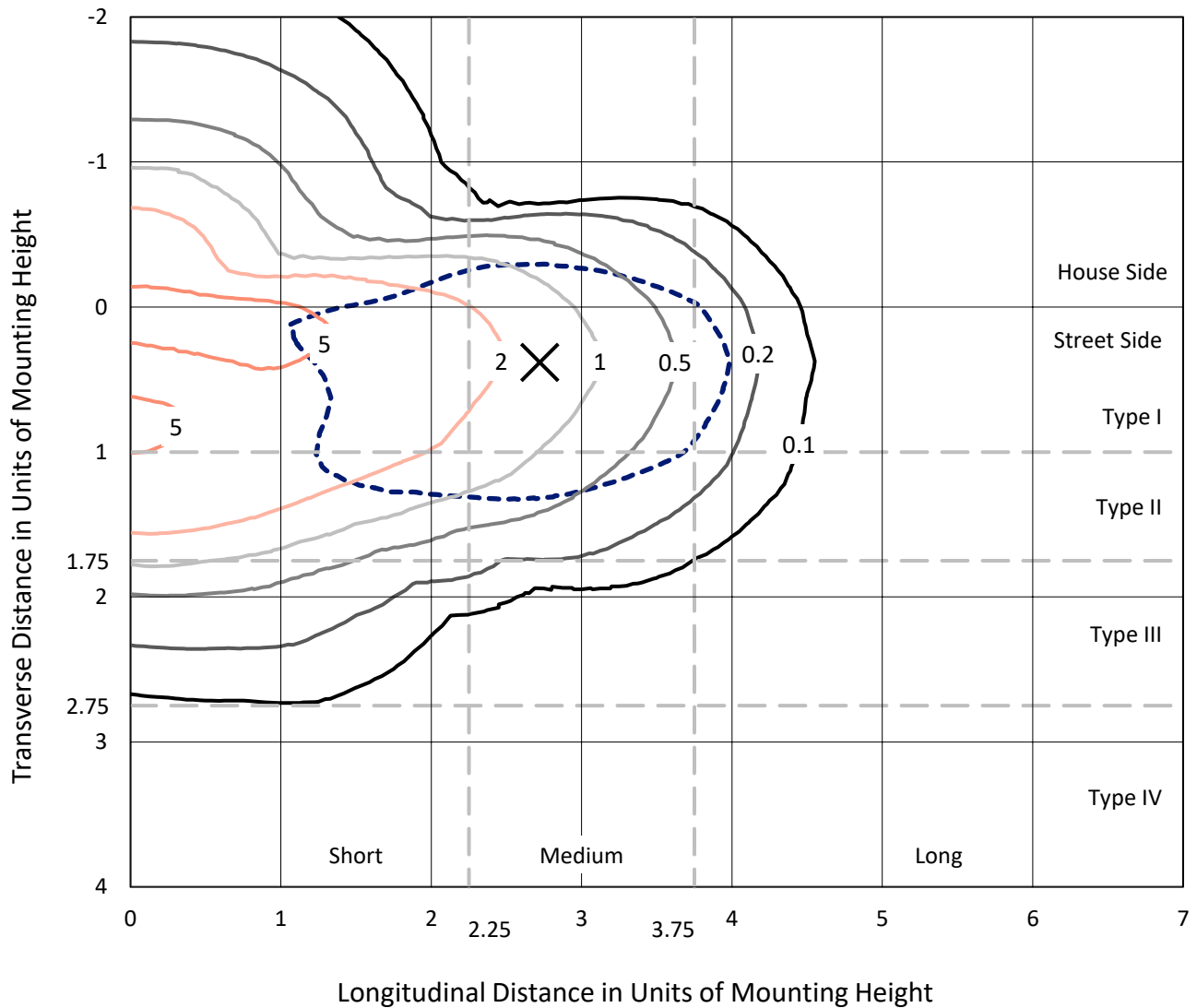
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

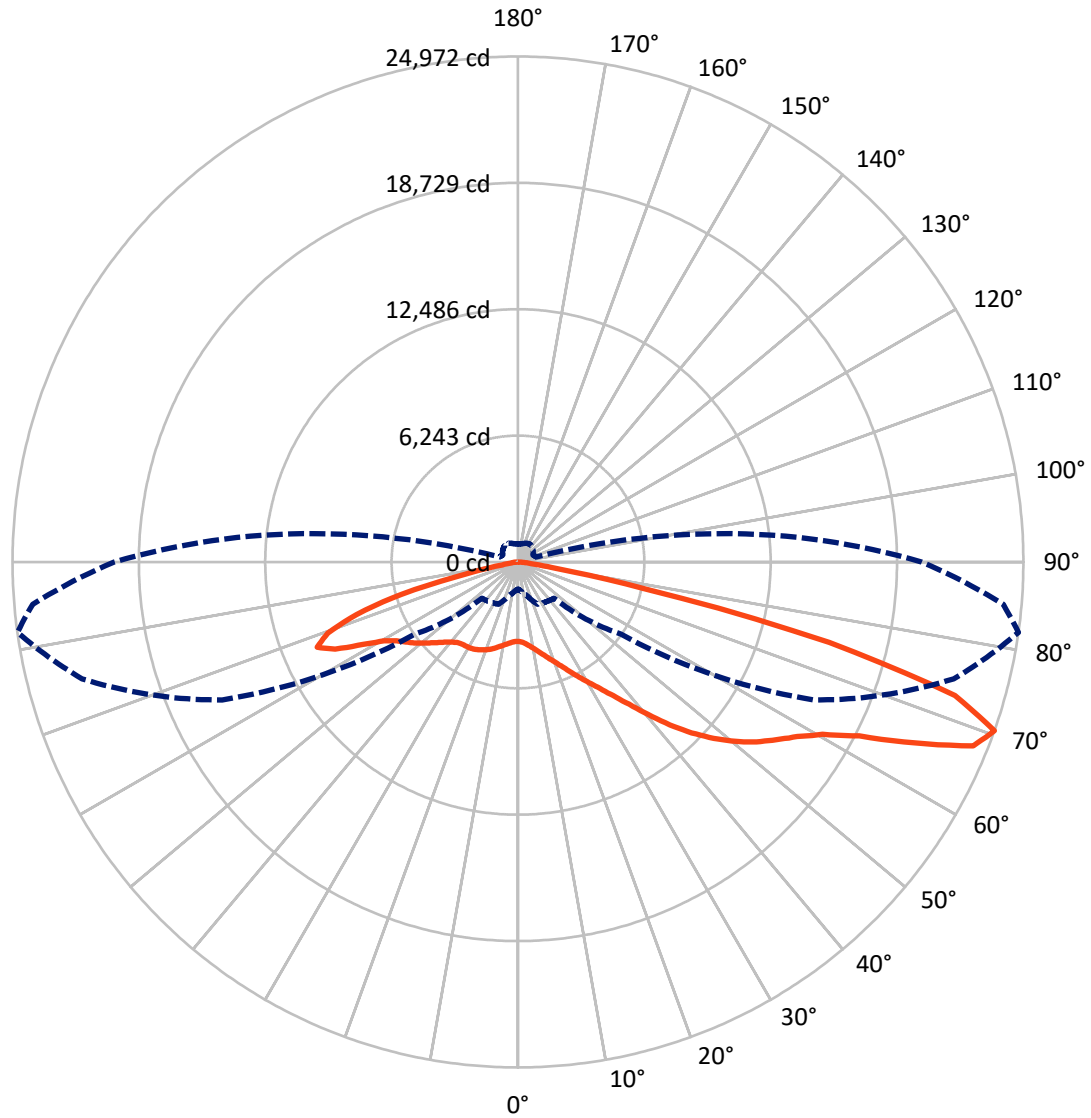
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6587.9 | 0.0 | 6587.9 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 20135.1 | 0.0 | 20135.1 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 26723.0 | 0.0 | 26723.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 369.9 | 1.4 |
| 10°-20° | 1062.8 | 4.0 |
| 20°-30° | 1778.0 | 6.7 |
| 30°-40° | 2777.6 | 10.4 |
| 40°-50° | 4423.7 | 16.6 |
| 50°-60° | 6156.2 | 23.0 |
| 60°-70° | 6439.6 | 24.1 |
| 70°-80° | 3365.7 | 12.6 |
| 80°-90° | 349.5 | 1.3 |
| 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° | 26723.0 | 100.0 |
| 0°-180° | 26723.0 | 100.0 |

Coefficient of Utilization



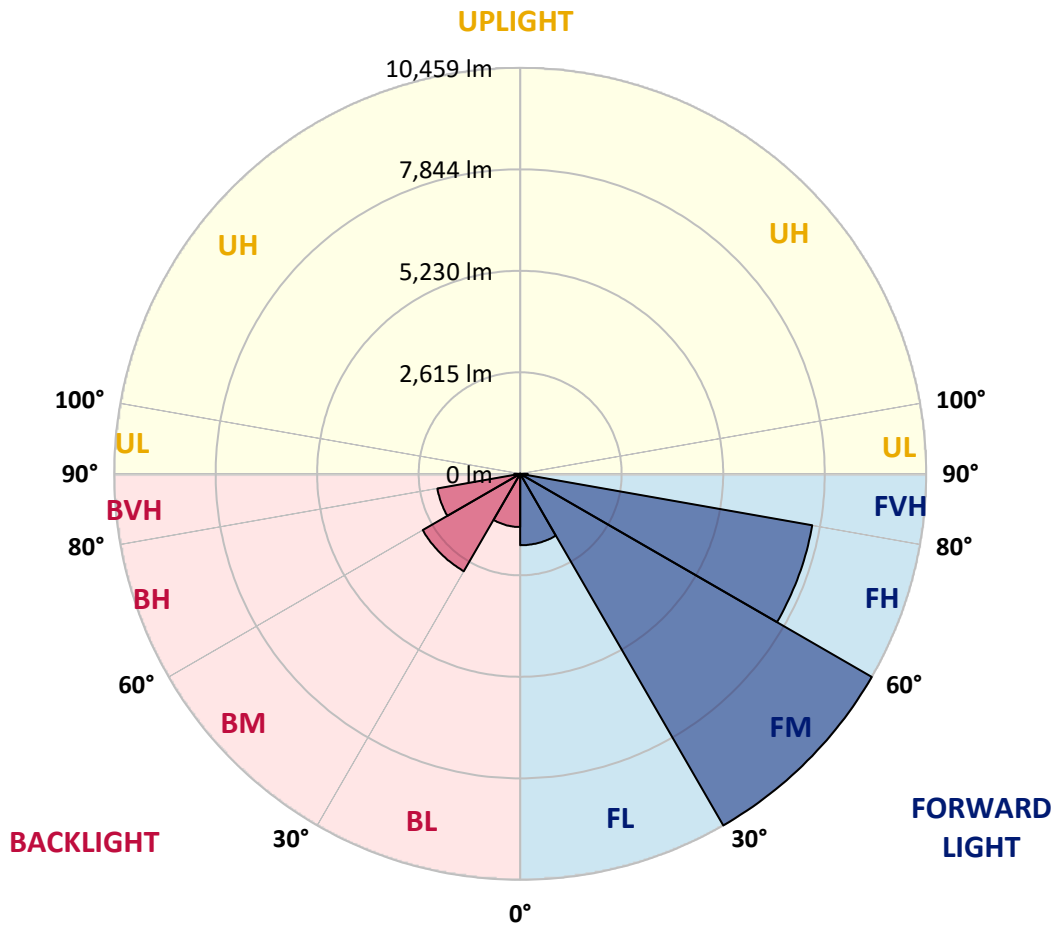
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1840.2 | 6.9 | | | |
| FM (30°-60°) | 10459.1 | 39.1 | | | |
| FH (60°-80°) | 7640.2 | 28.6 | | | G4/12000 |
| FVH (80°-90°) | 195.6 | 0.7 | | | G2/225 |
| BL (0°-30°) | 1370.5 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2898.4 | 10.8 | B3/5000 | | |
| BH (60°-80°) | 2165.1 | 8.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 153.8 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 |
| 2.5° | 4011.5 | 4034.2 | 4027.1 | 4020.0 | 4020.0 | 4010.1 | 4008.7 | 3994.5 | 3983.2 | 3964.7 |
| 5° | 4062.6 | 4086.7 | 4083.8 | 4089.5 | 4107.9 | 4112.2 | 4116.4 | 4107.9 | 4085.2 | 4062.6 |
| 7.5° | 4017.2 | 4044.1 | 4052.6 | 4086.7 | 4143.4 | 4194.4 | 4232.7 | 4248.3 | 4227.0 | 4194.4 |
| 10° | 3864.0 | 3893.8 | 3923.6 | 4004.4 | 4105.1 | 4225.6 | 4327.7 | 4388.7 | 4384.4 | 4353.3 |
| 12.5° | 3553.5 | 3584.7 | 3648.5 | 3805.9 | 3990.2 | 4202.9 | 4393.0 | 4520.6 | 4564.5 | 4541.8 |
| 15° | 3305.4 | 3332.3 | 3380.5 | 3542.2 | 3781.8 | 4105.1 | 4417.1 | 4665.2 | 4777.2 | 4764.5 |
| 17.5° | 3298.3 | 3309.6 | 3339.4 | 3416.0 | 3600.3 | 3952.0 | 4391.5 | 4807.0 | 5021.1 | 5019.7 |
| 20° | 3423.0 | 3427.3 | 3444.3 | 3459.9 | 3564.8 | 3835.7 | 4326.3 | 4924.7 | 5294.8 | 5294.8 |
| 22.5° | 3596.0 | 3593.2 | 3610.2 | 3596.0 | 3647.1 | 3825.8 | 4285.2 | 5028.2 | 5599.7 | 5622.4 |
| 25° | 3855.5 | 3841.4 | 3837.1 | 3804.5 | 3814.4 | 3917.9 | 4330.6 | 5145.9 | 5961.3 | 6008.1 |
| 27.5° | 4201.5 | 4178.8 | 4163.2 | 4088.1 | 4062.6 | 4107.9 | 4469.5 | 5287.7 | 6364.0 | 6444.8 |
| 30° | 4652.4 | 4611.3 | 4588.6 | 4458.2 | 4366.0 | 4373.1 | 4679.4 | 5476.3 | 6785.1 | 6915.6 |
| 32.5° | 5267.9 | 5204.0 | 5143.1 | 4929.0 | 4760.2 | 4704.9 | 4950.2 | 5737.2 | 7241.7 | 7450.2 |
| 35° | 5957.0 | 5906.0 | 5840.7 | 5510.3 | 5250.8 | 5123.2 | 5316.1 | 6101.6 | 7776.3 | 8106.7 |
| 37.5° | 6620.6 | 6576.7 | 6607.9 | 6162.6 | 5828.0 | 5642.2 | 5795.4 | 6590.9 | 8435.7 | 8923.5 |
| 40° | 7306.9 | 7272.9 | 7277.2 | 6851.8 | 6461.8 | 6253.4 | 6376.7 | 7204.8 | 9191.5 | 9894.8 |
| 42.5° | 8052.8 | 8027.3 | 7942.2 | 7565.0 | 7126.9 | 6932.6 | 7046.0 | 7913.8 | 10002.6 | 11000.8 |
| 45° | 8888.0 | 8872.4 | 8793.0 | 8360.5 | 7858.5 | 7640.2 | 7793.3 | 8696.6 | 10817.9 | 12041.6 |
| 47.5° | 9609.8 | 9622.5 | 9612.6 | 9248.2 | 8727.8 | 8407.3 | 8590.2 | 9513.3 | 11576.5 | 13020.0 |
| 50° | 9957.2 | 10023.8 | 10121.7 | 10008.2 | 9684.9 | 9358.8 | 9394.2 | 10301.7 | 12299.7 | 13937.5 |
| 52.5° | 9775.7 | 9901.9 | 10168.5 | 10350.0 | 10474.7 | 10406.7 | 10311.7 | 11084.5 | 12980.3 | 14765.6 |
| 55° | 9099.3 | 9276.5 | 9719.0 | 10157.1 | 10793.8 | 11288.7 | 11413.5 | 11952.3 | 13644.0 | 15494.5 |
| 57.5° | 7867.0 | 8154.9 | 8551.9 | 9438.2 | 10510.2 | 11715.5 | 12698.2 | 13156.2 | 14347.3 | 16272.9 |
| 60° | 5754.2 | 6139.9 | 6633.4 | 7952.1 | 9517.6 | 11487.2 | 13791.4 | 15005.2 | 15347.0 | 17281.1 |
| 62.5° | 3682.5 | 3920.8 | 4374.5 | 5616.7 | 7416.1 | 10317.3 | 14126.1 | 17316.6 | 17041.5 | 18934.5 |
| 65° | 2521.2 | 2674.3 | 3089.8 | 3787.5 | 4794.2 | 7679.9 | 13229.9 | 19049.4 | 19732.8 | 21555.0 |
| 67.5° | 1832.1 | 1948.3 | 2302.8 | 2914.0 | 3123.8 | 4544.7 | 10266.3 | 18970.0 | 22349.1 | 24254.8 |
| 70° | 1335.8 | 1418.0 | 1715.8 | 2302.8 | 2403.5 | 2528.3 | 6219.3 | 16125.5 | 22292.3 | 24972.3 |
| 72.5° | 989.8 | 1046.5 | 1246.4 | 1786.7 | 1945.5 | 1707.3 | 3078.5 | 11719.7 | 19155.7 | 22587.3 |
| 75° | 716.1 | 758.6 | 906.1 | 1366.9 | 1557.0 | 1300.3 | 1535.7 | 6848.9 | 13361.8 | 15888.7 |
| 77.5° | 547.3 | 580.0 | 676.4 | 1001.1 | 1246.4 | 975.6 | 952.9 | 3150.8 | 6335.6 | 6366.8 |
| 80° | 439.6 | 460.8 | 513.3 | 704.7 | 955.7 | 730.3 | 621.1 | 1271.9 | 2002.2 | 1694.5 |
| 82.5° | 323.3 | 358.8 | 433.9 | 494.9 | 683.5 | 503.4 | 378.6 | 642.4 | 761.5 | 655.1 |
| 85° | 184.3 | 208.4 | 262.3 | 354.5 | 436.7 | 307.7 | 217.0 | 285.0 | 354.5 | 290.7 |
| 87.5° | 65.2 | 85.1 | 92.2 | 139.0 | 190.0 | 127.6 | 83.7 | 82.2 | 116.3 | 86.5 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3917.9 | 0° | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 |
| 3960.5 | 2.5° | 3946.3 | 3939.2 | 3910.8 | 3872.6 | 3832.8 | 3794.6 | 3781.8 | 3754.9 | 3736.4 | 3726.5 |
| 4052.6 | 5° | 4025.7 | 4003.0 | 3936.4 | 3851.3 | 3761.9 | 3665.5 | 3597.5 | 3535.1 | 3489.7 | 3447.2 |
| 4178.8 | 7.5° | 4139.1 | 4099.4 | 3984.6 | 3835.7 | 3676.9 | 3516.6 | 3397.5 | 3306.8 | 3245.8 | 3206.1 |
| 4326.3 | 10° | 4271.0 | 4210.0 | 4034.2 | 3811.6 | 3566.3 | 3336.5 | 3196.2 | 3118.2 | 3079.9 | 3058.6 |
| 4495.1 | 12.5° | 4422.7 | 4336.2 | 4085.2 | 3756.3 | 3397.5 | 3135.2 | 3038.8 | 3016.1 | 3017.5 | 3018.9 |
| 4707.8 | 15° | 4609.9 | 4489.4 | 4126.4 | 3635.7 | 3177.7 | 2980.6 | 2963.6 | 3000.5 | 3038.8 | 3057.2 |
| 4948.8 | 17.5° | 4821.2 | 4651.0 | 4133.5 | 3437.2 | 2962.2 | 2881.4 | 2935.3 | 3014.7 | 3072.8 | 3098.3 |
| 5218.2 | 20° | 5048.1 | 4815.5 | 4082.4 | 3156.5 | 2784.9 | 2800.5 | 2897.0 | 2999.1 | 3062.9 | 3095.5 |
| 5525.9 | 22.5° | 5307.6 | 4991.3 | 3960.5 | 2861.5 | 2640.3 | 2712.6 | 2826.1 | 2925.3 | 2992.0 | 3024.6 |
| 5887.5 | 25° | 5603.9 | 5188.5 | 3769.0 | 2613.4 | 2515.5 | 2613.4 | 2726.8 | 2809.1 | 2862.9 | 2892.7 |
| 6291.7 | 27.5° | 5932.9 | 5394.1 | 3513.8 | 2416.3 | 2406.3 | 2511.3 | 2604.9 | 2668.7 | 2697.0 | 2719.7 |
| 6721.3 | 30° | 6263.3 | 5581.2 | 3204.7 | 2267.4 | 2311.3 | 2410.6 | 2477.2 | 2505.6 | 2514.1 | 2518.4 |
| 7200.6 | 32.5° | 6620.6 | 5742.9 | 2880.0 | 2144.0 | 2220.6 | 2312.8 | 2352.5 | 2365.2 | 2325.5 | 2298.6 |
| 7782.0 | 35° | 7053.1 | 5915.9 | 2562.3 | 2046.2 | 2131.2 | 2210.7 | 2223.4 | 2212.1 | 2165.3 | 2110.0 |
| 8510.8 | 37.5° | 7587.7 | 6131.4 | 2308.5 | 1976.7 | 2047.6 | 2100.1 | 2084.5 | 2081.6 | 2085.9 | 2020.6 |
| 9387.1 | 40° | 8242.8 | 6412.2 | 2122.7 | 1922.8 | 1979.5 | 1990.9 | 1946.9 | 1971.0 | 1992.3 | 1893.0 |
| 10348.5 | 42.5° | 8970.2 | 6751.1 | 2005.0 | 1885.9 | 1922.8 | 1895.9 | 1827.8 | 1854.7 | 1851.9 | 1721.4 |
| 11314.2 | 45° | 9711.9 | 7119.8 | 1963.9 | 1859.0 | 1870.3 | 1816.5 | 1741.3 | 1748.4 | 1688.8 | 1571.1 |
| 12240.2 | 47.5° | 10449.2 | 7515.4 | 1989.4 | 1836.3 | 1805.1 | 1744.1 | 1686.0 | 1654.8 | 1566.9 | 1479.0 |
| 13127.8 | 50° | 11172.4 | 7930.9 | 2083.0 | 1790.9 | 1715.8 | 1680.3 | 1637.8 | 1582.5 | 1488.9 | 1413.7 |
| 13967.3 | 52.5° | 11843.1 | 8349.2 | 2188.0 | 1715.8 | 1603.8 | 1625.0 | 1598.1 | 1534.3 | 1442.1 | 1365.5 |
| 14761.3 | 55° | 12478.4 | 8767.5 | 2229.1 | 1612.3 | 1498.8 | 1576.8 | 1561.2 | 1443.5 | 1332.9 | 1270.5 |
| 15592.3 | 57.5° | 13170.4 | 9270.9 | 2183.7 | 1480.4 | 1413.7 | 1521.5 | 1462.0 | 1331.5 | 1267.7 | 1220.9 |
| 16674.2 | 60° | 14128.9 | 10060.7 | 2085.9 | 1317.3 | 1332.9 | 1439.3 | 1337.2 | 1283.3 | 1213.8 | 1161.3 |
| 18296.4 | 62.5° | 15721.3 | 11534.0 | 1928.5 | 1155.7 | 1237.9 | 1317.3 | 1277.6 | 1223.7 | 1152.8 | 1101.8 |
| 21070.0 | 65° | 18075.2 | 13581.6 | 1632.1 | 1029.5 | 1131.6 | 1198.2 | 1213.8 | 1159.9 | 1086.2 | 1032.3 |
| 23500.5 | 67.5° | 20060.4 | 14866.3 | 1235.1 | 924.5 | 1022.4 | 1101.8 | 1145.7 | 1093.3 | 1015.3 | 962.8 |
| 24069.1 | 70° | 19951.2 | 13933.2 | 943.0 | 821.0 | 926.0 | 1006.8 | 1063.5 | 1022.4 | 938.7 | 889.1 |
| 21862.7 | 72.5° | 17720.7 | 11655.9 | 762.9 | 716.1 | 828.1 | 907.5 | 975.6 | 944.4 | 859.3 | 811.1 |
| 16016.3 | 75° | 13018.6 | 8274.0 | 609.7 | 609.7 | 706.2 | 804.0 | 879.2 | 859.3 | 781.3 | 747.3 |
| 6724.1 | 77.5° | 5487.6 | 3471.3 | 477.9 | 506.2 | 587.1 | 690.6 | 784.2 | 791.2 | 723.2 | 765.7 |
| 1778.2 | 80° | 1459.1 | 957.1 | 364.4 | 398.5 | 460.8 | 570.0 | 682.1 | 679.2 | 605.5 | 565.8 |
| 660.8 | 82.5° | 555.9 | 377.2 | 259.5 | 280.8 | 333.2 | 436.7 | 540.3 | 557.3 | 483.5 | 418.3 |
| 259.5 | 85° | 214.1 | 161.7 | 160.2 | 168.7 | 194.3 | 289.3 | 408.4 | 422.6 | 364.4 | 309.1 |
| 72.3 | 87.5° | 55.3 | 48.2 | 59.6 | 56.7 | 89.3 | 154.6 | 234.0 | 242.5 | 222.6 | 129.0 |
| 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> |
|-------------|
| 3917.9 |
| 3737.8 |
| 3464.2 |
| 3214.6 |
| 3064.3 |
| 3021.8 |
| 3055.8 |
| 3104.0 |
| 3104.0 |
| 3033.1 |
| 2901.2 |
| 2728.2 |
| 2528.3 |
| 2307.1 |
| 2112.8 |
| 2024.9 |
| 1895.9 |
| 1720.0 |
| 1575.4 |
| 1479.0 |
| 1408.1 |
| 1366.9 |
| 1264.9 |
| 1216.6 |
| 1158.5 |
| 1101.8 |
| 1035.1 |
| 964.2 |
| 893.3 |
| 811.1 |
| 737.4 |
| 694.8 |
| 526.1 |
| 418.3 |
| 319.0 |
| 184.3 |
| 0.0 |

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