

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: P941465

Luminaire Tested: **GALN-SB5A-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941465
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-SB5A-735-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22452 lumens
Efficiency: N/A
Efficacy: 158.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

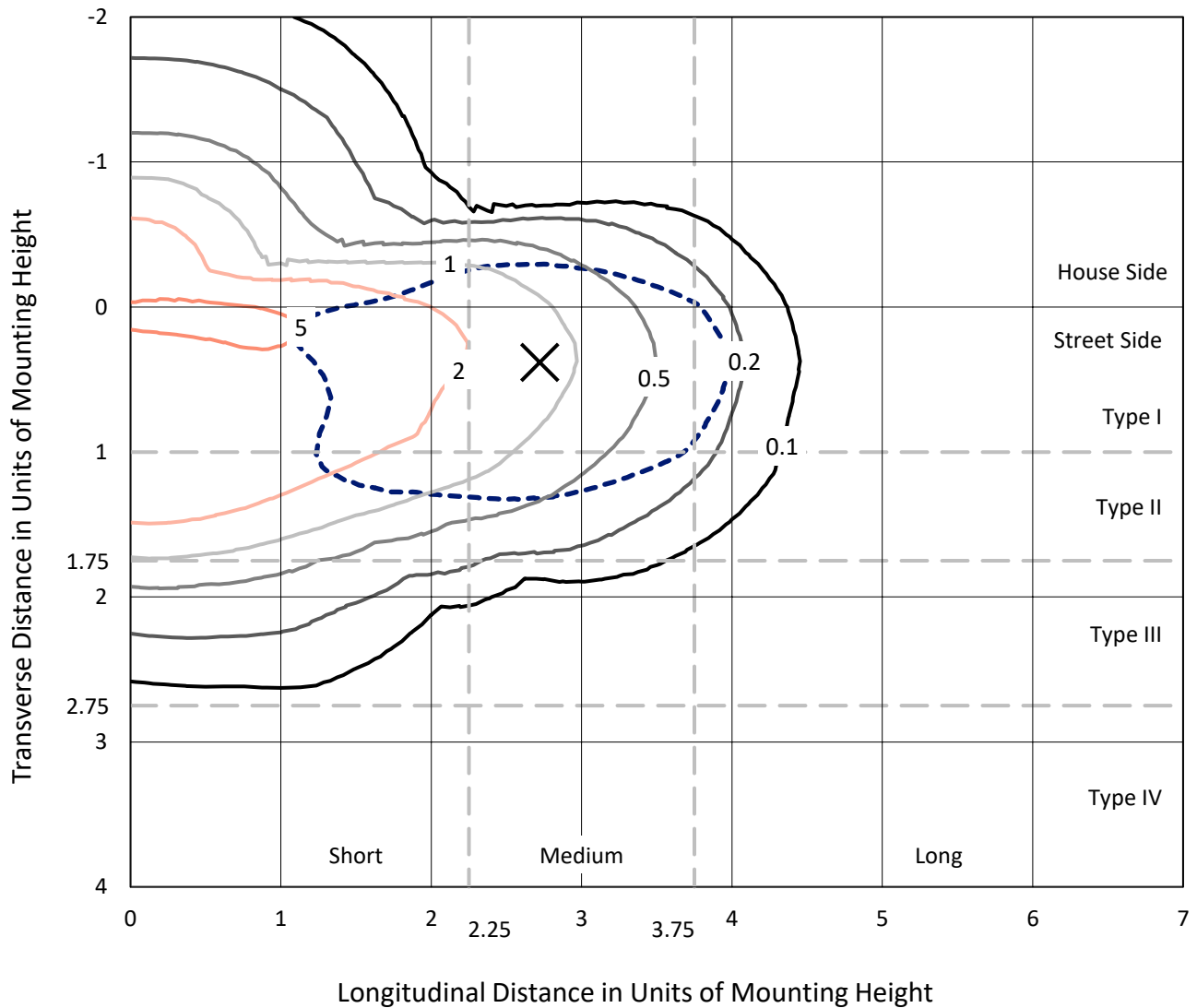
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

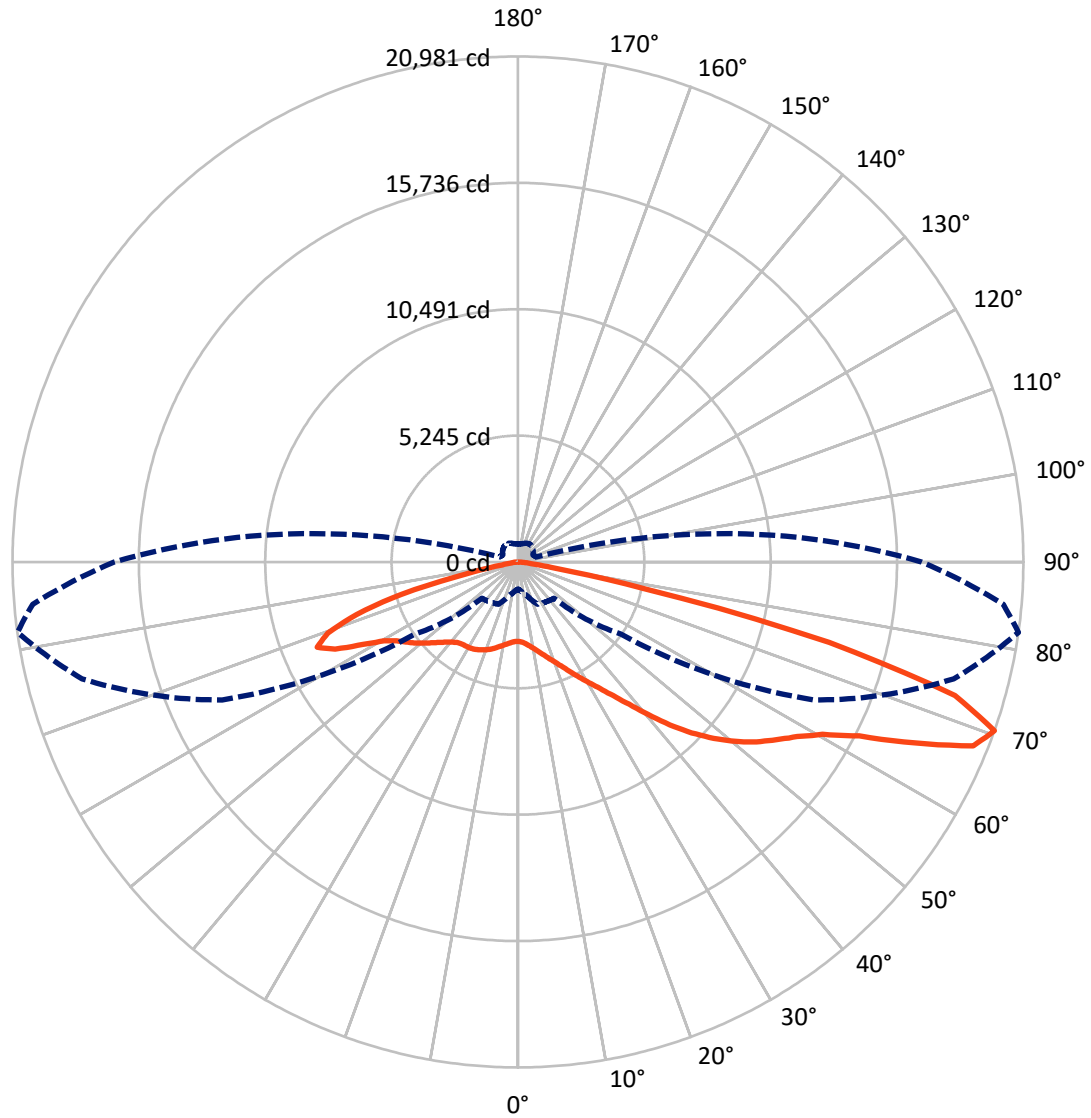
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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 | 5535.0 | 0.0 | 5535.0 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 16917.0 | 0.0 | 16917.0 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 22452.0 | 0.0 | 22452.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 310.8 | 1.4 |
| 10°-20° | 892.9 | 4.0 |
| 20°-30° | 1493.8 | 6.7 |
| 30°-40° | 2333.7 | 10.4 |
| 40°-50° | 3716.7 | 16.6 |
| 50°-60° | 5172.2 | 23.0 |
| 60°-70° | 5410.4 | 24.1 |
| 70°-80° | 2827.8 | 12.6 |
| 80°-90° | 293.6 | 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° | 22452.0 | 100.0 |
| 0°-180° | 22452.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P941465

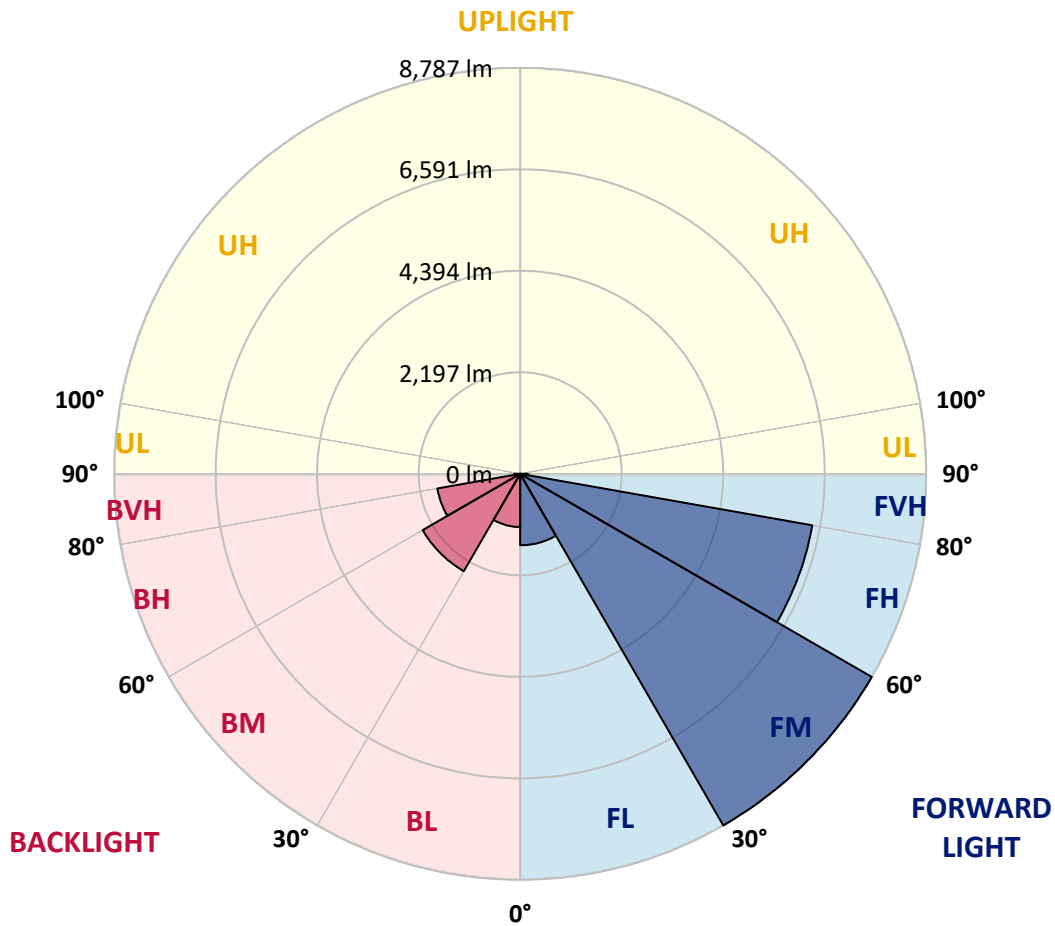
CATALOG NUMBER: GALN-SB5A-735-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1546.1 | 6.9 | | | |
| FM (30°-60°) | 8787.5 | 39.1 | | | |
| FH (60°-80°) | 6419.1 | 28.6 | | | G3/7500 |
| FVH (80°-90°) | 164.4 | 0.7 | | | G2/225 |
| BL (0°-30°) | 1151.5 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2435.2 | 10.8 | B2/2500 | | |
| BH (60°-80°) | 1819.1 | 8.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 129.3 | 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-G3

Type II Medium



REPORT NUMBER: P941465

CATALOG NUMBER: GALN-SB5A-735-U-T2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 3291.7 | 3291.7 | 3291.7 | 3291.7 | 3291.7 | 3291.7 | 3291.7 | 3291.7 | 3291.7 | 3291.7 |
| 2.5° | 3370.4 | 3389.4 | 3383.5 | 3377.5 | 3377.5 | 3369.2 | 3368.0 | 3356.1 | 3346.5 | 3331.1 |
| 5° | 3413.3 | 3433.5 | 3431.1 | 3435.9 | 3451.4 | 3455.0 | 3458.5 | 3451.4 | 3432.3 | 3413.3 |
| 7.5° | 3375.1 | 3397.8 | 3404.9 | 3433.5 | 3481.2 | 3524.1 | 3556.2 | 3569.3 | 3551.5 | 3524.1 |
| 10° | 3246.5 | 3271.5 | 3296.5 | 3364.4 | 3449.0 | 3550.3 | 3636.0 | 3687.3 | 3683.7 | 3657.5 |
| 12.5° | 2985.6 | 3011.8 | 3065.4 | 3197.6 | 3352.5 | 3531.2 | 3690.9 | 3798.1 | 3835.0 | 3815.9 |
| 15° | 2777.1 | 2799.7 | 2840.2 | 2976.0 | 3177.4 | 3449.0 | 3711.1 | 3919.6 | 4013.7 | 4003.0 |
| 17.5° | 2771.1 | 2780.6 | 2805.7 | 2870.0 | 3024.9 | 3320.3 | 3689.7 | 4038.7 | 4218.6 | 4217.4 |
| 20° | 2876.0 | 2879.5 | 2893.8 | 2906.9 | 2995.1 | 3222.6 | 3634.9 | 4137.6 | 4448.6 | 4448.6 |
| 22.5° | 3021.3 | 3018.9 | 3033.2 | 3021.3 | 3064.2 | 3214.3 | 3600.3 | 4224.6 | 4704.7 | 4723.8 |
| 25° | 3239.3 | 3227.4 | 3223.8 | 3196.4 | 3204.8 | 3291.7 | 3638.4 | 4323.5 | 5008.5 | 5047.8 |
| 27.5° | 3530.0 | 3511.0 | 3497.9 | 3434.7 | 3413.3 | 3451.4 | 3755.2 | 4442.6 | 5346.9 | 5414.8 |
| 30° | 3908.9 | 3874.3 | 3855.3 | 3745.7 | 3668.2 | 3674.2 | 3931.5 | 4601.1 | 5700.7 | 5810.3 |
| 32.5° | 4425.9 | 4372.3 | 4321.1 | 4141.2 | 3999.4 | 3953.0 | 4159.1 | 4820.3 | 6084.3 | 6259.4 |
| 35° | 5004.9 | 4962.0 | 4907.2 | 4629.6 | 4411.6 | 4304.4 | 4466.4 | 5126.4 | 6533.5 | 6811.0 |
| 37.5° | 5562.5 | 5525.6 | 5551.8 | 5177.7 | 4896.5 | 4740.4 | 4869.1 | 5537.5 | 7087.4 | 7497.3 |
| 40° | 6139.1 | 6110.5 | 6114.1 | 5756.7 | 5429.1 | 5253.9 | 5357.6 | 6053.3 | 7722.4 | 8313.4 |
| 42.5° | 6765.8 | 6744.3 | 6672.8 | 6355.9 | 5987.8 | 5824.6 | 5919.9 | 6649.0 | 8403.9 | 9242.6 |
| 45° | 7467.5 | 7454.4 | 7387.7 | 7024.3 | 6602.5 | 6419.1 | 6547.7 | 7306.6 | 9088.9 | 10117.1 |
| 47.5° | 8073.9 | 8084.6 | 8076.3 | 7770.1 | 7332.9 | 7063.6 | 7217.3 | 7992.9 | 9726.3 | 10939.1 |
| 50° | 8365.8 | 8421.8 | 8504.0 | 8408.7 | 8137.0 | 7863.0 | 7892.8 | 8655.3 | 10333.9 | 11709.9 |
| 52.5° | 8213.3 | 8319.3 | 8543.3 | 8695.8 | 8800.6 | 8743.4 | 8663.6 | 9312.9 | 10905.8 | 12405.7 |
| 55° | 7645.0 | 7793.9 | 8165.6 | 8533.8 | 9068.7 | 9484.5 | 9589.3 | 10042.0 | 11463.3 | 13018.1 |
| 57.5° | 6609.7 | 6851.5 | 7185.1 | 7929.7 | 8830.4 | 9843.1 | 10668.7 | 11053.5 | 12054.2 | 13672.1 |
| 60° | 4834.6 | 5158.6 | 5573.2 | 6681.2 | 7996.4 | 9651.3 | 11587.2 | 12607.0 | 12894.2 | 14519.2 |
| 62.5° | 3094.0 | 3294.1 | 3675.4 | 4719.0 | 6230.8 | 8668.4 | 11868.4 | 14549.0 | 14317.8 | 15908.3 |
| 65° | 2118.2 | 2246.9 | 2596.0 | 3182.1 | 4028.0 | 6452.4 | 11115.4 | 16004.8 | 16579.0 | 18110.0 |
| 67.5° | 1539.2 | 1636.9 | 1934.8 | 2448.3 | 2624.6 | 3818.3 | 8625.5 | 15938.1 | 18777.1 | 20378.3 |
| 70° | 1122.3 | 1191.4 | 1441.6 | 1934.8 | 2019.4 | 2124.2 | 5225.3 | 13548.2 | 18729.5 | 20981.1 |
| 72.5° | 831.6 | 879.2 | 1047.2 | 1501.1 | 1634.6 | 1434.4 | 2586.5 | 9846.6 | 16094.2 | 18977.3 |
| 75° | 601.6 | 637.4 | 761.3 | 1148.5 | 1308.1 | 1092.5 | 1290.2 | 5754.3 | 11226.2 | 13349.3 |
| 77.5° | 459.9 | 487.3 | 568.3 | 841.1 | 1047.2 | 819.7 | 800.6 | 2647.2 | 5323.0 | 5349.2 |
| 80° | 369.3 | 387.2 | 431.3 | 592.1 | 803.0 | 613.6 | 521.8 | 1068.7 | 1682.2 | 1423.7 |
| 82.5° | 271.6 | 301.4 | 364.6 | 415.8 | 574.2 | 422.9 | 318.1 | 539.7 | 639.8 | 550.4 |
| 85° | 154.9 | 175.1 | 220.4 | 297.8 | 366.9 | 258.5 | 182.3 | 239.5 | 297.8 | 244.2 |
| 87.5° | 54.8 | 71.5 | 77.4 | 116.8 | 159.6 | 107.2 | 70.3 | 69.1 | 97.7 | 72.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P941465
 CATALOG NUMBER: GALN-SB5A-735-U-T2

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3291.7 | 0° | 3291.7 | 3291.7 | 3291.7 | 3291.7 | 3291.7 | 3291.7 | 3291.7 | 3291.7 | 3291.7 | 3291.7 |
| 3327.5 | 2.5° | 3315.6 | 3309.6 | 3285.8 | 3253.6 | 3220.3 | 3188.1 | 3177.4 | 3154.7 | 3139.2 | 3130.9 |
| 3404.9 | 5° | 3382.3 | 3363.2 | 3307.2 | 3235.7 | 3160.7 | 3079.7 | 3022.5 | 2970.1 | 2932.0 | 2896.2 |
| 3511.0 | 7.5° | 3477.6 | 3444.2 | 3347.7 | 3222.6 | 3089.2 | 2954.6 | 2854.5 | 2778.3 | 2727.0 | 2693.7 |
| 3634.9 | 10° | 3588.4 | 3537.2 | 3389.4 | 3202.4 | 2996.3 | 2803.3 | 2685.3 | 2619.8 | 2587.6 | 2569.8 |
| 3776.6 | 12.5° | 3715.9 | 3643.2 | 3432.3 | 3155.9 | 2854.5 | 2634.1 | 2553.1 | 2534.0 | 2535.2 | 2536.4 |
| 3955.3 | 15° | 3873.1 | 3771.9 | 3466.9 | 3054.7 | 2669.9 | 2504.3 | 2490.0 | 2520.9 | 2553.1 | 2568.6 |
| 4157.9 | 17.5° | 4050.6 | 3907.7 | 3472.8 | 2887.9 | 2488.8 | 2420.9 | 2466.1 | 2532.8 | 2581.7 | 2603.1 |
| 4384.2 | 20° | 4241.3 | 4045.9 | 3429.9 | 2652.0 | 2339.8 | 2352.9 | 2434.0 | 2519.7 | 2573.4 | 2600.8 |
| 4642.8 | 22.5° | 4459.3 | 4193.6 | 3327.5 | 2404.2 | 2218.3 | 2279.1 | 2374.4 | 2457.8 | 2513.8 | 2541.2 |
| 4946.6 | 25° | 4708.3 | 4359.2 | 3166.7 | 2195.7 | 2113.5 | 2195.7 | 2291.0 | 2360.1 | 2405.4 | 2430.4 |
| 5286.1 | 27.5° | 4984.7 | 4532.0 | 2952.2 | 2030.1 | 2021.7 | 2109.9 | 2188.5 | 2242.2 | 2266.0 | 2285.0 |
| 5647.1 | 30° | 5262.3 | 4689.2 | 2692.5 | 1905.0 | 1941.9 | 2025.3 | 2081.3 | 2105.1 | 2112.3 | 2115.9 |
| 6049.8 | 32.5° | 5562.5 | 4825.0 | 2419.7 | 1801.3 | 1865.7 | 1943.1 | 1976.5 | 1987.2 | 1953.8 | 1931.2 |
| 6538.2 | 35° | 5925.9 | 4970.4 | 2152.8 | 1719.1 | 1790.6 | 1857.3 | 1868.1 | 1858.5 | 1819.2 | 1772.8 |
| 7150.6 | 37.5° | 6375.0 | 5151.5 | 1939.5 | 1660.8 | 1720.3 | 1764.4 | 1751.3 | 1748.9 | 1752.5 | 1697.7 |
| 7886.8 | 40° | 6925.4 | 5387.4 | 1783.5 | 1615.5 | 1663.1 | 1672.7 | 1635.7 | 1656.0 | 1673.9 | 1590.5 |
| 8694.6 | 42.5° | 7536.6 | 5672.1 | 1684.6 | 1584.5 | 1615.5 | 1592.9 | 1535.7 | 1558.3 | 1555.9 | 1446.3 |
| 9505.9 | 45° | 8159.7 | 5981.8 | 1650.0 | 1561.9 | 1571.4 | 1526.1 | 1463.0 | 1469.0 | 1418.9 | 1320.0 |
| 10283.9 | 47.5° | 8779.2 | 6314.2 | 1671.5 | 1542.8 | 1516.6 | 1465.4 | 1416.5 | 1390.3 | 1316.5 | 1242.6 |
| 11029.7 | 50° | 9386.8 | 6663.3 | 1750.1 | 1504.7 | 1441.6 | 1411.8 | 1376.0 | 1329.6 | 1250.9 | 1187.8 |
| 11735.0 | 52.5° | 9950.3 | 7014.8 | 1838.3 | 1441.6 | 1347.4 | 1365.3 | 1342.7 | 1289.1 | 1211.6 | 1147.3 |
| 12402.1 | 55° | 10484.0 | 7366.2 | 1872.8 | 1354.6 | 1259.3 | 1324.8 | 1311.7 | 1212.8 | 1119.9 | 1067.5 |
| 13100.3 | 57.5° | 11065.4 | 7789.2 | 1834.7 | 1243.8 | 1187.8 | 1278.3 | 1228.3 | 1118.7 | 1065.1 | 1025.8 |
| 14009.3 | 60° | 11870.8 | 8452.7 | 1752.5 | 1106.8 | 1119.9 | 1209.2 | 1123.5 | 1078.2 | 1019.8 | 975.7 |
| 15372.2 | 62.5° | 13208.7 | 9690.6 | 1620.3 | 971.0 | 1040.1 | 1106.8 | 1073.4 | 1028.1 | 968.6 | 925.7 |
| 17702.5 | 65° | 15186.3 | 11410.9 | 1371.3 | 864.9 | 950.7 | 1006.7 | 1019.8 | 974.5 | 912.6 | 867.3 |
| 19744.5 | 67.5° | 16854.3 | 12490.3 | 1037.7 | 776.8 | 859.0 | 925.7 | 962.6 | 918.5 | 853.0 | 808.9 |
| 20222.2 | 70° | 16762.5 | 11706.4 | 792.3 | 689.8 | 778.0 | 845.9 | 893.5 | 859.0 | 788.7 | 747.0 |
| 18368.5 | 72.5° | 14888.5 | 9793.0 | 641.0 | 601.6 | 695.8 | 762.5 | 819.7 | 793.4 | 722.0 | 681.5 |
| 13456.5 | 75° | 10937.9 | 6951.6 | 512.3 | 512.3 | 593.3 | 675.5 | 738.6 | 722.0 | 656.4 | 627.8 |
| 5649.5 | 77.5° | 4610.6 | 2916.5 | 401.5 | 425.3 | 493.2 | 580.2 | 658.8 | 664.8 | 607.6 | 643.3 |
| 1494.0 | 80° | 1225.9 | 804.2 | 306.2 | 334.8 | 387.2 | 478.9 | 573.0 | 570.7 | 508.7 | 475.4 |
| 555.2 | 82.5° | 467.0 | 316.9 | 218.0 | 235.9 | 280.0 | 366.9 | 453.9 | 468.2 | 406.3 | 351.5 |
| 218.0 | 85° | 179.9 | 135.8 | 134.6 | 141.8 | 163.2 | 243.0 | 343.1 | 355.0 | 306.2 | 259.7 |
| 60.8 | 87.5° | 46.5 | 40.5 | 50.0 | 47.7 | 75.1 | 129.9 | 196.6 | 203.7 | 187.0 | 108.4 |
| 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> |
|-------------|
| 3291.7 |
| 3140.4 |
| 2910.5 |
| 2700.8 |
| 2574.5 |
| 2538.8 |
| 2567.4 |
| 2607.9 |
| 2607.9 |
| 2548.3 |
| 2437.5 |
| 2292.2 |
| 2124.2 |
| 1938.4 |
| 1775.1 |
| 1701.3 |
| 1592.9 |
| 1445.1 |
| 1323.6 |
| 1242.6 |
| 1183.0 |
| 1148.5 |
| 1062.7 |
| 1022.2 |
| 973.3 |
| 925.7 |
| 869.7 |
| 810.1 |
| 750.6 |
| 681.5 |
| 619.5 |
| 583.8 |
| 442.0 |
| 351.5 |
| 268.1 |
| 154.9 |
| 0.0 |

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