

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: P947407

Luminaire Tested: **GALN-SB2D-735-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947407
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-SB2D-735-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 900mA 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: 15553 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

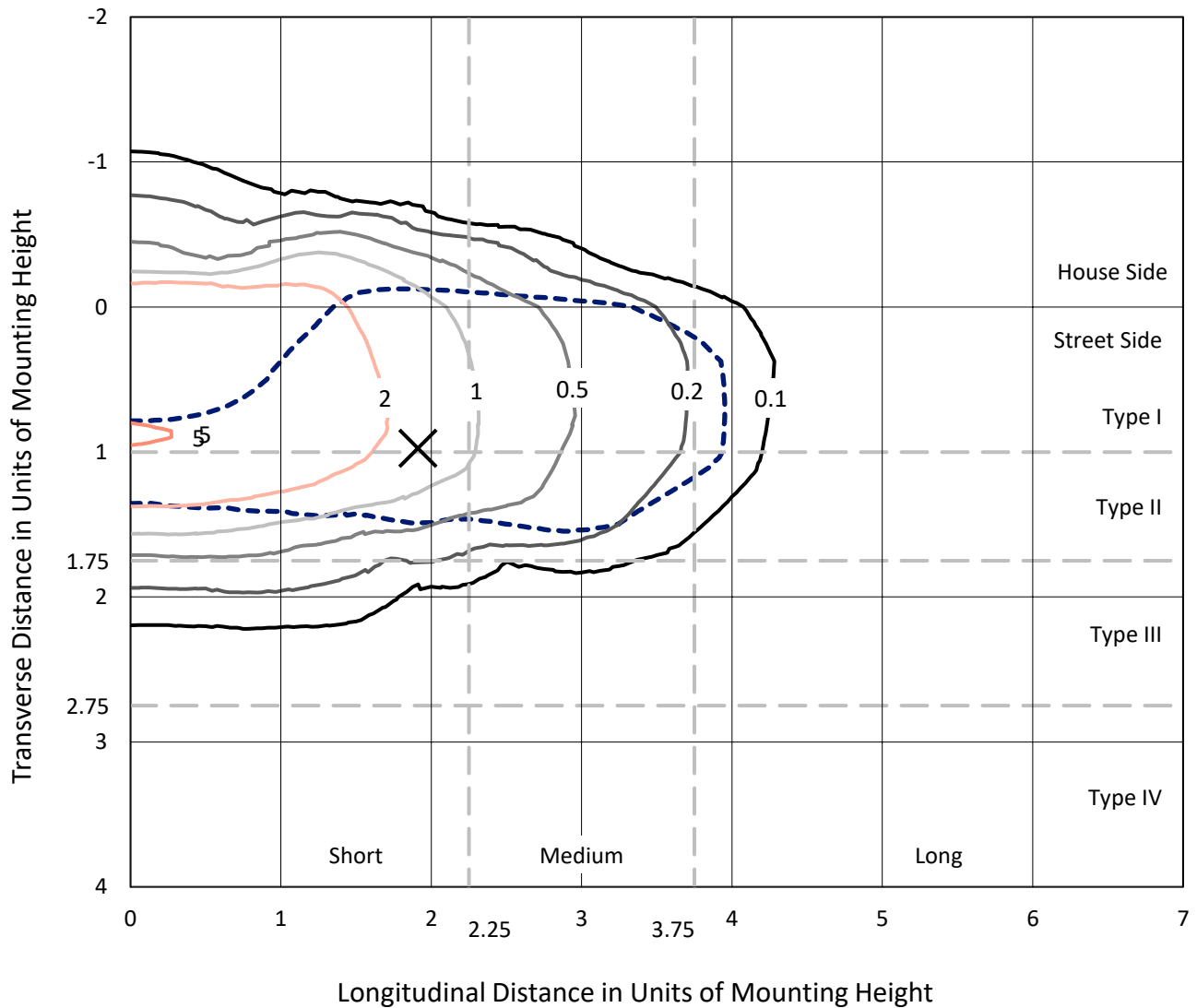
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

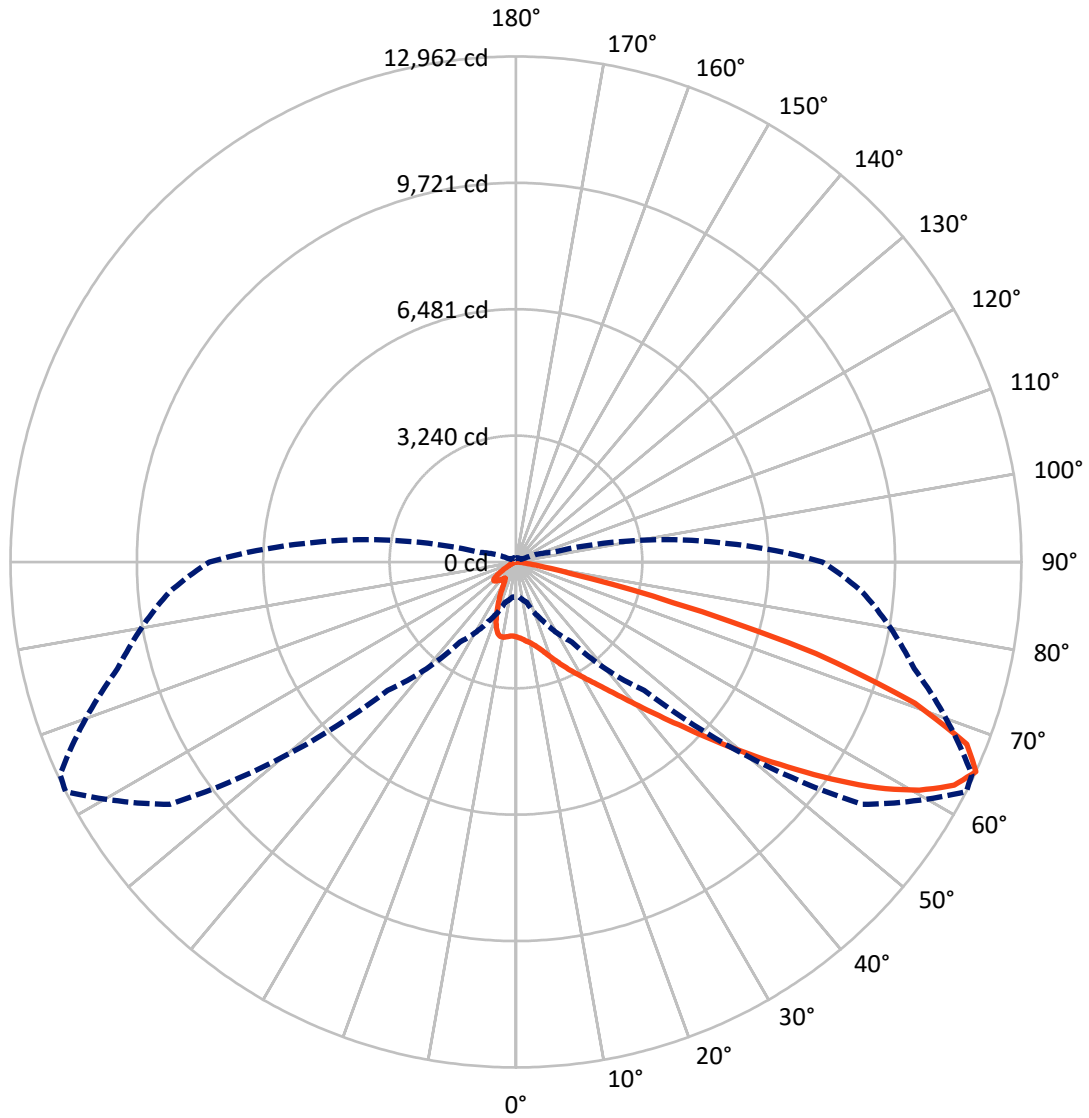
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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 | 2286.2 | 0.0 | 2286.2 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 13266.8 | 0.0 | 13266.8 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 15553.0 | 0.0 | 15553.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 180.9 | 1.2 |
| 10°-20° | 501.8 | 3.2 |
| 20°-30° | 873.8 | 5.6 |
| 30°-40° | 1574.9 | 10.1 |
| 40°-50° | 3123.5 | 20.1 |
| 50°-60° | 4254.7 | 27.4 |
| 60°-70° | 3396.1 | 21.8 |
| 70°-80° | 1536.8 | 9.9 |
| 80°-90° | 110.5 | 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° | 15553.0 | 100.0 |
| 0°-180° | 15553.0 | 100.0 |

Coefficient of Utilization



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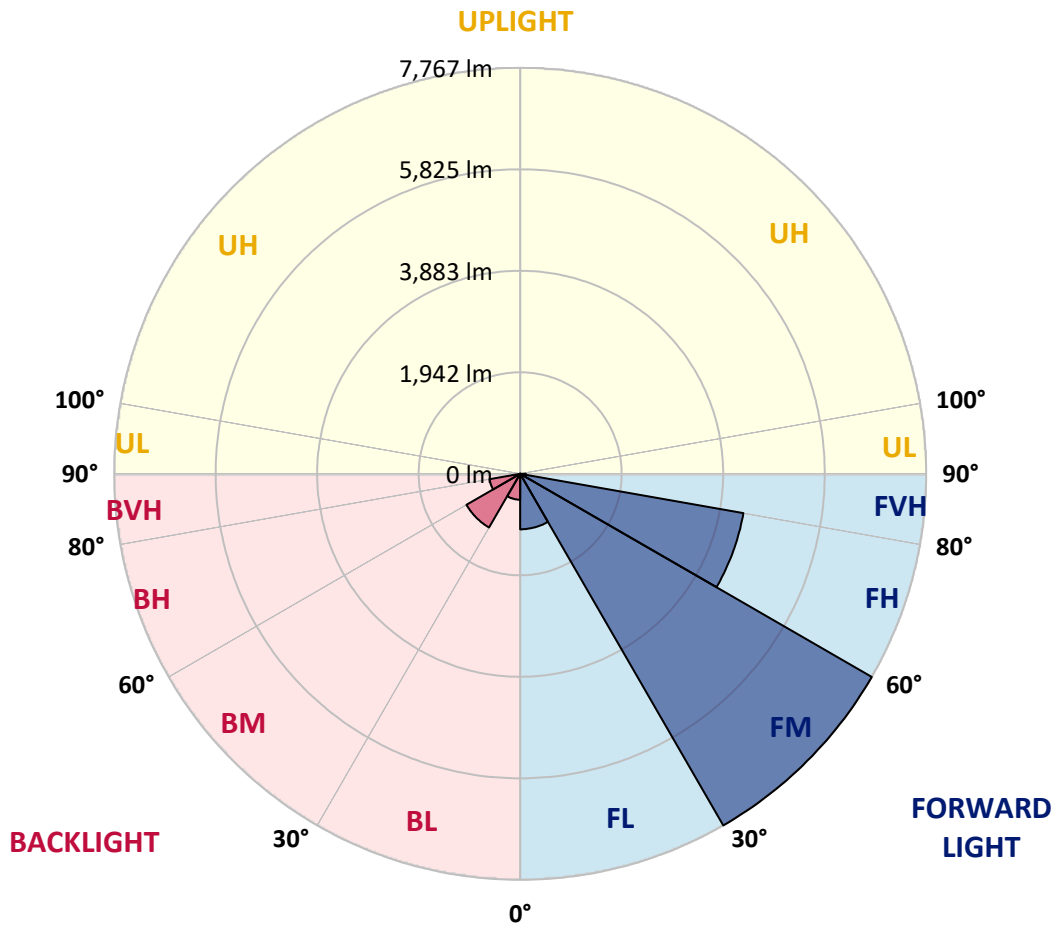
CATALOG NUMBER: GALN-SB2D-735-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1061.7 | 6.8 | | | |
| FM (30°-60°) | 7766.8 | 49.9 | | | |
| FH (60°-80°) | 4336.1 | 27.9 | | | G2/5000 |
| FVH (80°-90°) | 102.3 | 0.7 | | | G2/225 |
| BL (0°-30°) | 494.8 | 3.2 | B1/500 | | |
| BM (30°-60°) | 1186.4 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 596.8 | 3.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 8.2 | 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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 63° | 65° | 75° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 1919.5 | 1919.5 | 1919.5 | 1919.5 | 1919.5 | 1919.5 | 1919.5 | 1919.5 | 1919.5 | 1919.5 |
| 2.5° | 1964.5 | 1959.1 | 1966.6 | 1963.4 | 1961.3 | 1957.0 | 1954.8 | 1952.7 | 1948.4 | 1945.2 |
| 5° | 1969.8 | 1966.6 | 1974.1 | 1980.5 | 1986.9 | 1993.4 | 1996.6 | 2000.9 | 1996.6 | 1988.0 |
| 7.5° | 1924.9 | 1922.7 | 1938.8 | 1958.1 | 1986.9 | 2011.6 | 2038.3 | 2053.3 | 2054.4 | 2051.1 |
| 10° | 1921.7 | 1916.3 | 1932.4 | 1955.9 | 1993.4 | 2037.2 | 2084.3 | 2116.4 | 2120.7 | 2134.6 |
| 12.5° | 1972.0 | 1966.6 | 1989.1 | 2014.8 | 2053.3 | 2099.3 | 2157.1 | 2202.0 | 2208.4 | 2227.7 |
| 15° | 2056.5 | 2049.0 | 2074.7 | 2107.8 | 2157.1 | 2209.5 | 2270.5 | 2311.1 | 2316.5 | 2340.0 |
| 17.5° | 2154.9 | 2147.4 | 2177.4 | 2212.7 | 2266.2 | 2337.9 | 2408.5 | 2453.5 | 2459.9 | 2474.9 |
| 20° | 2281.2 | 2271.6 | 2295.1 | 2327.2 | 2383.9 | 2469.5 | 2554.0 | 2618.2 | 2617.2 | 2617.2 |
| 22.5° | 2427.8 | 2412.8 | 2433.1 | 2458.8 | 2512.3 | 2616.1 | 2728.4 | 2804.4 | 2804.4 | 2774.4 |
| 25° | 2585.1 | 2570.1 | 2592.5 | 2616.1 | 2663.2 | 2780.9 | 2912.5 | 3006.6 | 3010.9 | 2959.5 |
| 27.5° | 2781.9 | 2762.7 | 2779.8 | 2807.6 | 2835.4 | 2955.3 | 3111.5 | 3220.6 | 3222.8 | 3143.6 |
| 30° | 3160.7 | 3106.1 | 3052.6 | 3022.7 | 3035.5 | 3154.3 | 3321.2 | 3442.1 | 3452.8 | 3343.7 |
| 32.5° | 3854.0 | 3843.3 | 3655.0 | 3408.9 | 3280.5 | 3368.3 | 3555.5 | 3701.0 | 3707.5 | 3567.3 |
| 35° | 4931.5 | 4918.7 | 4615.9 | 4147.2 | 3728.9 | 3655.0 | 3840.1 | 4012.4 | 4008.1 | 3849.8 |
| 37.5° | 6217.6 | 6205.9 | 5806.8 | 5179.7 | 4502.5 | 4088.4 | 4207.1 | 4388.0 | 4414.7 | 4207.1 |
| 40° | 7316.5 | 7272.6 | 7020.1 | 6415.6 | 5529.6 | 4807.4 | 4729.3 | 4849.1 | 4876.9 | 4630.8 |
| 42.5° | 8148.9 | 8111.5 | 7983.1 | 7605.4 | 6772.9 | 5870.9 | 5344.5 | 5390.5 | 5421.6 | 5126.2 |
| 45° | 8580.1 | 8571.6 | 8622.9 | 8587.6 | 8039.8 | 7176.3 | 6224.0 | 6032.5 | 6044.3 | 5675.1 |
| 47.5° | 8641.1 | 8636.8 | 8871.2 | 9202.8 | 9129.0 | 8648.6 | 7352.9 | 6832.9 | 6791.1 | 6294.7 |
| 50° | 8281.6 | 8273.0 | 8722.4 | 9344.1 | 9856.6 | 9885.5 | 8634.7 | 7734.8 | 7642.8 | 6935.6 |
| 52.5° | 7133.5 | 7131.4 | 7869.7 | 8904.3 | 10112.3 | 10968.3 | 9901.5 | 8725.6 | 8571.6 | 7613.9 |
| 55° | 5489.0 | 5528.6 | 6374.9 | 7597.9 | 9645.8 | 11489.4 | 11038.9 | 9825.6 | 9589.1 | 8296.6 |
| 57.5° | 3888.3 | 3946.1 | 4782.8 | 5872.0 | 8199.2 | 11181.2 | 11808.2 | 10927.6 | 10673.0 | 8977.1 |
| 60° | 2088.6 | 2139.9 | 2977.7 | 4277.8 | 6099.9 | 10032.1 | 12213.8 | 11884.2 | 11643.5 | 9623.3 |
| 62.5° | 1244.4 | 1261.5 | 1608.2 | 2761.6 | 4125.8 | 7664.2 | 12041.5 | 12612.9 | 12414.9 | 10165.8 |
| 65° | 893.4 | 896.6 | 1071.0 | 1686.3 | 2504.8 | 4656.5 | 10833.5 | 12961.7 | 12900.7 | 10574.6 |
| 67.5° | 752.2 | 750.1 | 822.8 | 1120.3 | 1706.6 | 2332.5 | 8303.0 | 12468.4 | 12727.3 | 10833.5 |
| 70° | 645.2 | 648.4 | 734.0 | 820.7 | 1282.9 | 1320.3 | 4128.0 | 10856.0 | 11408.1 | 10902.0 |
| 72.5° | 480.4 | 491.1 | 570.3 | 747.9 | 968.3 | 908.4 | 1425.2 | 8049.4 | 9047.7 | 10271.8 |
| 75° | 339.2 | 344.5 | 401.2 | 629.1 | 722.2 | 661.2 | 727.6 | 4161.1 | 5440.8 | 7875.0 |
| 77.5° | 261.1 | 270.7 | 303.9 | 439.8 | 711.5 | 464.4 | 445.1 | 1440.2 | 2212.7 | 4757.1 |
| 80° | 141.2 | 158.4 | 219.3 | 317.8 | 499.7 | 328.5 | 220.4 | 573.5 | 750.1 | 2224.5 |
| 82.5° | 72.8 | 81.3 | 153.0 | 229.0 | 284.6 | 286.8 | 109.1 | 238.6 | 309.2 | 686.9 |
| 85° | 28.9 | 35.3 | 102.7 | 126.3 | 146.6 | 141.2 | 49.2 | 96.3 | 111.3 | 190.5 |
| 87.5° | 6.4 | 10.7 | 37.4 | 28.9 | 27.8 | 30.0 | 11.8 | 22.5 | 21.4 | 22.5 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1919.5 | 0° | 1919.5 | 1919.5 | 1919.5 | 1919.5 | 1919.5 | 1919.5 | 1919.5 | 1919.5 | 1919.5 | 1919.5 |
| 1932.4 | 2.5° | 1931.3 | 1927.0 | 1915.3 | 1902.4 | 1887.4 | 1878.9 | 1873.5 | 1872.5 | 1865.0 | 1859.6 |
| 1975.2 | 5° | 1963.4 | 1959.1 | 1936.7 | 1909.9 | 1881.0 | 1858.5 | 1837.1 | 1817.9 | 1790.1 | 1784.7 |
| 2037.2 | 7.5° | 2027.6 | 2015.8 | 1979.5 | 1943.1 | 1888.5 | 1823.2 | 1744.1 | 1653.1 | 1571.8 | 1547.2 |
| 2119.6 | 10° | 2106.8 | 2090.7 | 2044.7 | 1980.5 | 1859.6 | 1682.0 | 1490.5 | 1312.9 | 1171.6 | 1132.0 |
| 2217.0 | 12.5° | 2196.7 | 2182.7 | 2121.8 | 2003.0 | 1738.7 | 1416.6 | 1123.5 | 903.1 | 766.1 | 731.9 |
| 2320.8 | 15° | 2303.7 | 2283.3 | 2198.8 | 1968.8 | 1522.6 | 1076.4 | 771.5 | 640.9 | 591.7 | 585.3 |
| 2439.5 | 17.5° | 2417.1 | 2383.9 | 2267.3 | 1845.7 | 1231.5 | 765.0 | 596.0 | 558.5 | 537.1 | 530.7 |
| 2559.4 | 20° | 2520.9 | 2478.1 | 2307.9 | 1659.5 | 920.2 | 596.0 | 533.9 | 509.3 | 490.0 | 482.6 |
| 2679.2 | 22.5° | 2624.6 | 2563.7 | 2307.9 | 1405.9 | 690.1 | 528.6 | 490.0 | 467.6 | 445.1 | 435.5 |
| 2807.6 | 25° | 2732.7 | 2651.4 | 2267.3 | 1123.5 | 555.3 | 484.7 | 448.3 | 423.7 | 404.5 | 392.7 |
| 2929.6 | 27.5° | 2837.6 | 2725.2 | 2174.2 | 856.0 | 494.3 | 446.2 | 409.8 | 386.3 | 368.1 | 359.5 |
| 3062.3 | 30° | 2937.1 | 2798.0 | 2043.7 | 649.5 | 454.7 | 408.7 | 374.5 | 354.2 | 336.0 | 327.4 |
| 3234.5 | 32.5° | 3071.9 | 2890.0 | 1904.6 | 532.8 | 420.5 | 373.4 | 342.4 | 323.1 | 307.1 | 300.7 |
| 3458.2 | 35° | 3259.1 | 3025.9 | 1784.7 | 523.2 | 391.6 | 344.5 | 313.5 | 295.3 | 279.3 | 273.9 |
| 3747.1 | 37.5° | 3524.5 | 3245.2 | 1721.6 | 587.4 | 368.1 | 318.9 | 290.0 | 270.7 | 255.7 | 251.4 |
| 4114.1 | 40° | 3851.9 | 3542.7 | 1755.8 | 651.6 | 352.0 | 296.4 | 268.6 | 249.3 | 236.5 | 231.1 |
| 4535.6 | 42.5° | 4240.3 | 3909.7 | 1945.2 | 700.8 | 341.3 | 277.1 | 248.2 | 226.8 | 218.3 | 216.1 |
| 5013.9 | 45° | 4686.5 | 4313.1 | 2235.2 | 753.3 | 324.2 | 258.9 | 227.9 | 211.9 | 205.4 | 204.4 |
| 5533.9 | 47.5° | 5193.7 | 4756.0 | 2571.1 | 818.5 | 307.1 | 241.8 | 211.9 | 201.2 | 195.8 | 193.7 |
| 6076.4 | 50° | 5696.5 | 5202.2 | 2916.8 | 854.9 | 293.2 | 225.8 | 199.0 | 190.5 | 186.2 | 185.1 |
| 6649.9 | 52.5° | 6223.0 | 5661.2 | 3196.0 | 820.7 | 281.4 | 212.9 | 188.3 | 181.9 | 177.6 | 176.5 |
| 7178.5 | 55° | 6724.8 | 6032.5 | 3244.2 | 696.6 | 257.9 | 200.1 | 176.5 | 173.3 | 168.0 | 168.0 |
| 7714.5 | 57.5° | 7157.1 | 6218.7 | 2903.9 | 511.4 | 234.3 | 180.8 | 164.8 | 161.6 | 157.3 | 156.2 |
| 8198.1 | 60° | 7554.0 | 6165.2 | 2241.6 | 344.5 | 208.6 | 161.6 | 149.8 | 147.7 | 143.4 | 138.0 |
| 8618.6 | 62.5° | 7777.6 | 5929.8 | 1533.3 | 224.7 | 183.0 | 141.2 | 132.7 | 131.6 | 122.0 | 111.3 |
| 8930.0 | 65° | 7862.2 | 5446.2 | 956.6 | 163.7 | 153.0 | 120.9 | 114.5 | 112.3 | 98.4 | 86.7 |
| 9106.6 | 67.5° | 7788.3 | 4650.1 | 482.6 | 129.5 | 120.9 | 100.6 | 94.2 | 94.2 | 84.5 | 73.8 |
| 9095.9 | 70° | 7493.0 | 3486.0 | 203.3 | 103.8 | 93.1 | 77.0 | 77.0 | 81.3 | 71.7 | 59.9 |
| 8624.0 | 72.5° | 6852.1 | 2345.4 | 108.1 | 79.2 | 69.5 | 54.6 | 63.1 | 66.3 | 56.7 | 44.9 |
| 7058.6 | 75° | 5447.2 | 1430.6 | 74.9 | 58.8 | 43.9 | 38.5 | 48.1 | 50.3 | 38.5 | 30.0 |
| 4839.5 | 77.5° | 3725.7 | 821.7 | 50.3 | 37.4 | 27.8 | 22.5 | 33.2 | 31.0 | 20.3 | 13.9 |
| 1866.0 | 80° | 1636.0 | 342.4 | 28.9 | 17.1 | 10.7 | 8.6 | 11.8 | 8.6 | 6.4 | 4.3 |
| 255.7 | 82.5° | 191.5 | 80.2 | 10.7 | 6.4 | 4.3 | 2.1 | 1.1 | 0.0 | 0.0 | 0.0 |
| 78.1 | 85° | 39.6 | 9.6 | 5.3 | 2.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 13.9 | 87.5° | 7.5 | 2.1 | 1.1 | 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> |
|-------------|
| 1919.5 |
| 1865.0 |
| 1782.6 |
| 1535.4 |
| 1117.1 |
| 722.2 |
| 578.9 |
| 527.5 |
| 478.3 |
| 430.1 |
| 388.4 |
| 359.5 |
| 328.5 |
| 300.7 |
| 273.9 |
| 250.4 |
| 230.0 |
| 216.1 |
| 203.3 |
| 193.7 |
| 185.1 |
| 176.5 |
| 166.9 |
| 155.1 |
| 137.0 |
| 109.1 |
| 85.6 |
| 72.8 |
| 58.8 |
| 44.9 |
| 28.9 |
| 15.0 |
| 4.3 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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