

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: P947157

Luminaire Tested: **GALN-SB2C-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11204 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

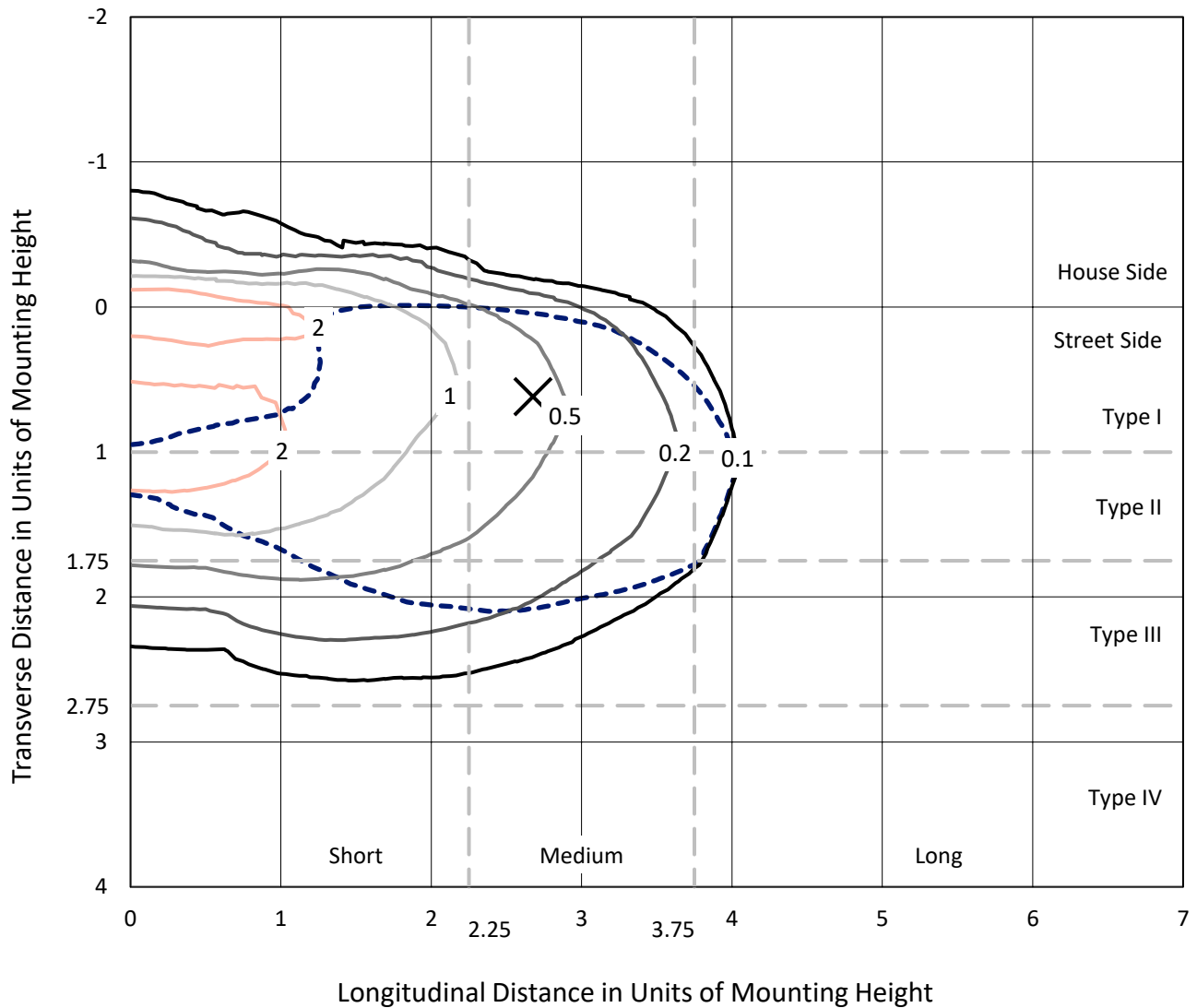
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

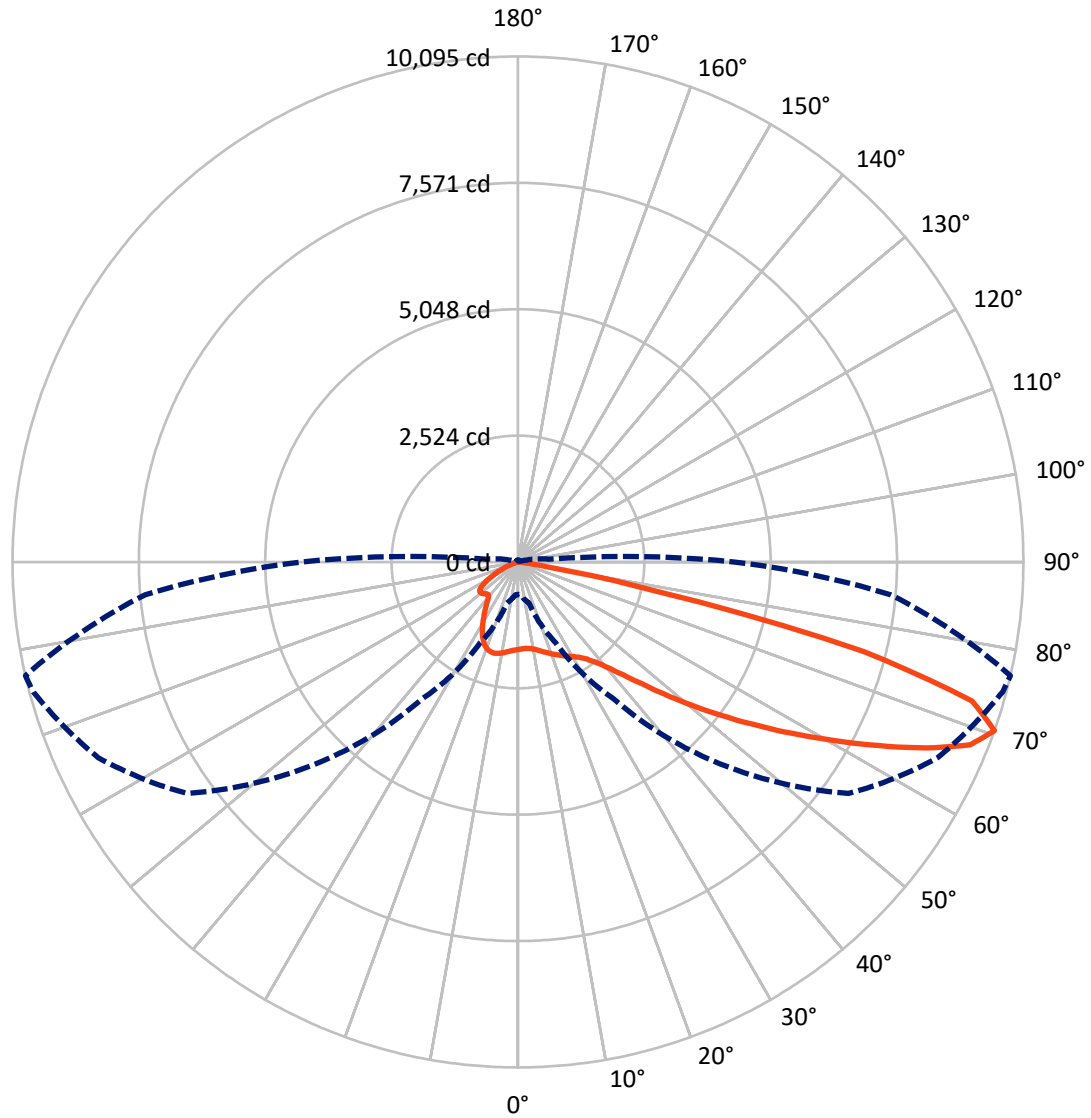
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1181.1 | 0.0 | 1181.1 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 10022.9 | 0.0 | 10022.9 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 11204.0 | 0.0 | 11204.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 150.6 | 1.3 |
| 10°-20° | 357.5 | 3.2 |
| 20°-30° | 553.0 | 4.9 |
| 30°-40° | 1003.5 | 9.0 |
| 40°-50° | 1894.2 | 16.9 |
| 50°-60° | 2737.0 | 24.4 |
| 60°-70° | 2913.5 | 26.0 |
| 70°-80° | 1543.9 | 13.8 |
| 80°-90° | 50.7 | 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° | 11204.0 | 100.0 |
| 0°-180° | 11204.0 | 100.0 |

Coefficient of Utilization



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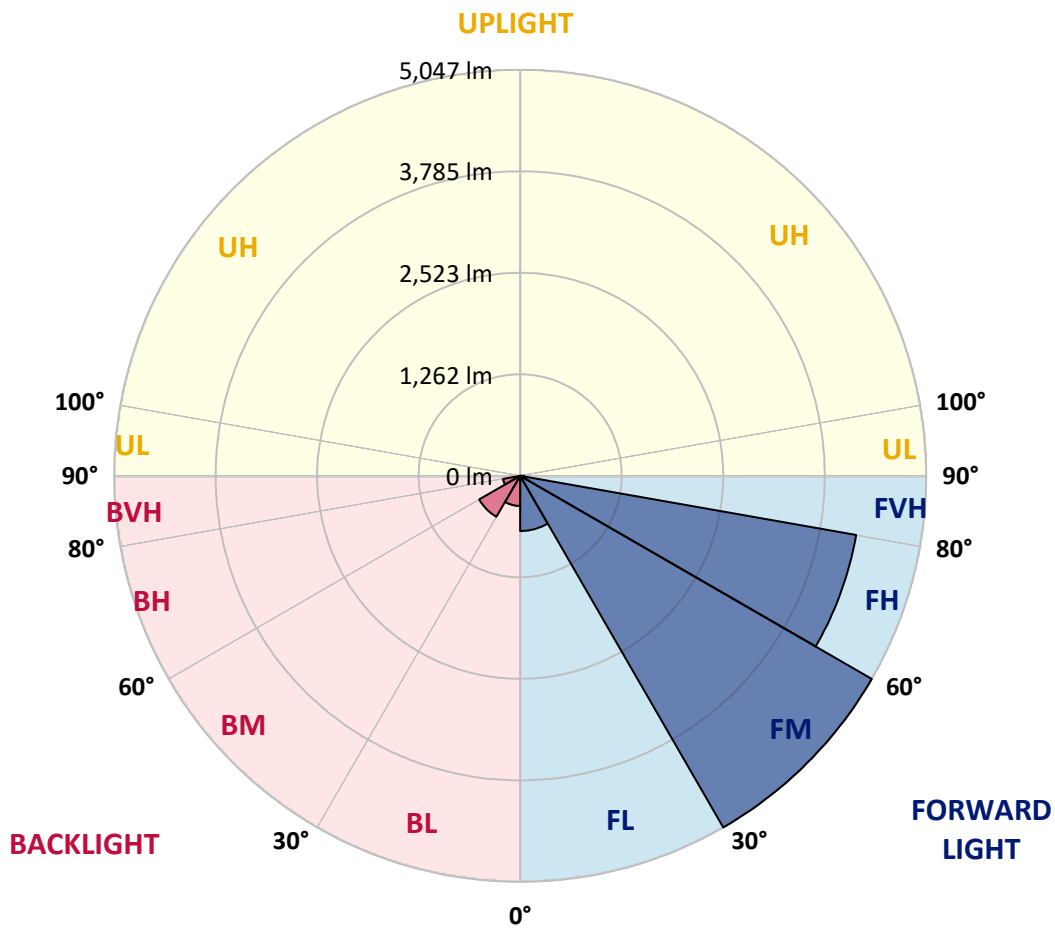
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 686.0 | 6.1 | | | |
| FM (30°-60°) | 5046.8 | 45.0 | | | |
| FH (60°-80°) | 4240.9 | 37.9 | | | G2/5000 |
| FVH (80°-90°) | 49.3 | 0.4 | | | G1/100 |
| BL (0°-30°) | 375.2 | 3.3 | B1/500 | | |
| BM (30°-60°) | 587.9 | 5.2 | B1/1000 | | |
| BH (60°-80°) | 216.5 | 1.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 1747.6 | 1747.6 | 1747.6 | 1747.6 | 1747.6 | 1747.6 | 1747.6 | 1747.6 | 1747.6 | 1747.6 |
| 2.5° | 1640.8 | 1655.6 | 1653.5 | 1663.4 | 1667.0 | 1681.1 | 1695.3 | 1714.4 | 1735.6 | 1734.9 |
| 5° | 1548.1 | 1563.0 | 1566.5 | 1579.9 | 1596.9 | 1618.8 | 1647.9 | 1686.1 | 1725.7 | 1732.1 |
| 7.5° | 1438.4 | 1454.0 | 1463.2 | 1490.1 | 1521.2 | 1566.5 | 1613.9 | 1669.8 | 1735.6 | 1744.8 |
| 10° | 1328.8 | 1342.9 | 1354.9 | 1393.1 | 1442.7 | 1509.9 | 1587.0 | 1667.7 | 1756.1 | 1769.6 |
| 12.5° | 1260.8 | 1274.3 | 1287.7 | 1321.0 | 1382.5 | 1464.6 | 1569.3 | 1677.6 | 1790.1 | 1809.2 |
| 15° | 1236.8 | 1248.8 | 1259.4 | 1289.1 | 1346.4 | 1439.8 | 1565.8 | 1698.1 | 1833.2 | 1858.7 |
| 17.5° | 1240.3 | 1246.7 | 1253.8 | 1276.4 | 1332.3 | 1428.5 | 1572.2 | 1733.5 | 1884.2 | 1906.8 |
| 20° | 1260.8 | 1264.4 | 1265.1 | 1280.6 | 1330.2 | 1427.1 | 1584.9 | 1767.4 | 1932.3 | 1962.7 |
| 22.5° | 1287.0 | 1288.4 | 1287.0 | 1297.6 | 1343.6 | 1437.7 | 1601.9 | 1808.5 | 1986.1 | 2014.4 |
| 25° | 1409.4 | 1382.5 | 1348.6 | 1328.1 | 1366.3 | 1458.2 | 1627.3 | 1863.7 | 2044.8 | 2072.4 |
| 27.5° | 1789.4 | 1712.2 | 1590.5 | 1454.0 | 1413.0 | 1488.0 | 1662.7 | 1919.6 | 2104.2 | 2129.0 |
| 30° | 2406.3 | 2305.2 | 2098.6 | 1790.8 | 1563.0 | 1550.2 | 1708.7 | 1975.4 | 2167.2 | 2194.1 |
| 32.5° | 3024.7 | 3000.0 | 2761.5 | 2335.6 | 1900.5 | 1688.9 | 1785.1 | 2051.2 | 2250.7 | 2271.9 |
| 35° | 3650.2 | 3600.0 | 3404.7 | 2983.7 | 2420.5 | 1971.2 | 1912.5 | 2150.2 | 2360.4 | 2384.4 |
| 37.5° | 4129.2 | 4098.8 | 3977.8 | 3631.1 | 3037.5 | 2407.0 | 2130.4 | 2303.7 | 2519.5 | 2546.4 |
| 40° | 4552.3 | 4538.2 | 4497.1 | 4268.6 | 3727.3 | 2977.3 | 2469.3 | 2541.5 | 2740.3 | 2772.1 |
| 42.5° | 4884.9 | 4918.1 | 4941.5 | 4877.8 | 4438.4 | 3628.3 | 2925.0 | 2875.4 | 3048.1 | 3080.6 |
| 45° | 5225.2 | 5236.5 | 5330.6 | 5422.6 | 5144.5 | 4308.9 | 3438.6 | 3266.7 | 3430.9 | 3471.2 |
| 47.5° | 5443.8 | 5489.1 | 5654.7 | 5816.7 | 5738.1 | 4983.9 | 3990.5 | 3728.7 | 3874.5 | 3950.2 |
| 50° | 5460.1 | 5545.7 | 5773.5 | 6055.8 | 6170.4 | 5626.4 | 4590.5 | 4255.1 | 4410.1 | 4493.6 |
| 52.5° | 5189.1 | 5322.1 | 5675.2 | 6088.4 | 6403.9 | 6170.4 | 5211.0 | 4781.5 | 4980.4 | 5089.3 |
| 55° | 3978.5 | 4152.5 | 5305.1 | 5911.5 | 6413.1 | 6582.9 | 5815.3 | 5329.9 | 5615.7 | 5738.8 |
| 57.5° | 3466.2 | 3554.0 | 4170.9 | 5604.4 | 6242.6 | 6749.2 | 6361.5 | 5852.1 | 6307.0 | 6459.8 |
| 60° | 2883.9 | 2999.3 | 3498.1 | 5102.1 | 6011.3 | 6765.5 | 6844.0 | 6525.6 | 7056.3 | 7228.2 |
| 62.5° | 1959.9 | 2085.1 | 2581.1 | 4238.9 | 5695.0 | 6757.7 | 7239.5 | 7219.0 | 7889.1 | 8073.7 |
| 65° | 1214.1 | 1292.7 | 1619.6 | 3461.3 | 5252.8 | 6766.2 | 7653.5 | 8061.0 | 8767.8 | 8955.3 |
| 67.5° | 959.4 | 995.5 | 1166.0 | 2657.5 | 4490.8 | 6575.2 | 8066.7 | 8852.7 | 9594.9 | 9743.5 |
| 70° | 644.6 | 666.5 | 848.3 | 1781.6 | 3341.0 | 5693.6 | 8058.9 | 9250.4 | 10020.9 | 10095.2 |
| 72.5° | 339.6 | 356.6 | 496.0 | 825.0 | 2017.9 | 4047.1 | 6793.1 | 8774.9 | 9597.1 | 9485.3 |
| 75° | 169.8 | 198.1 | 334.0 | 418.9 | 861.8 | 2257.0 | 4218.3 | 6918.3 | 7553.7 | 7120.7 |
| 77.5° | 128.8 | 155.7 | 275.9 | 275.9 | 300.0 | 759.9 | 1786.5 | 3773.3 | 3480.4 | 2898.1 |
| 80° | 82.1 | 106.1 | 241.3 | 208.7 | 125.2 | 193.2 | 465.6 | 1057.1 | 739.4 | 562.5 |
| 82.5° | 48.1 | 69.3 | 200.9 | 138.0 | 70.0 | 71.5 | 131.6 | 225.0 | 191.7 | 149.3 |
| 85° | 19.1 | 45.3 | 138.0 | 54.5 | 27.6 | 17.7 | 39.6 | 48.1 | 39.6 | 29.7 |
| 87.5° | 0.0 | 10.6 | 24.1 | 0.0 | 2.1 | 1.4 | 2.8 | 3.5 | 3.5 | 2.8 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1747.6 | 0° | 1747.6 | 1747.6 | 1747.6 | 1747.6 | 1747.6 | 1747.6 | 1747.6 | 1747.6 | 1747.6 | 1747.6 |
| 1749.0 | 2.5° | 1755.4 | 1756.8 | 1761.1 | 1761.8 | 1751.9 | 1739.1 | 1734.2 | 1732.1 | 1723.6 | 1722.9 |
| 1760.4 | 5° | 1776.6 | 1783.0 | 1776.6 | 1758.2 | 1714.4 | 1652.8 | 1606.1 | 1567.9 | 1533.2 | 1522.6 |
| 1799.3 | 7.5° | 1819.1 | 1825.5 | 1806.3 | 1734.2 | 1623.8 | 1501.4 | 1391.0 | 1313.2 | 1243.1 | 1217.0 |
| 1846.7 | 10° | 1879.9 | 1888.4 | 1828.3 | 1682.5 | 1487.2 | 1290.6 | 1103.8 | 972.2 | 869.6 | 827.8 |
| 1911.1 | 12.5° | 1956.3 | 1959.9 | 1840.3 | 1604.0 | 1309.7 | 1028.8 | 764.1 | 623.3 | 532.1 | 498.1 |
| 1988.9 | 15° | 2040.5 | 2035.6 | 1841.7 | 1497.2 | 1067.7 | 727.4 | 498.8 | 409.7 | 372.9 | 361.6 |
| 2066.7 | 17.5° | 2129.0 | 2108.5 | 1813.4 | 1342.9 | 802.3 | 497.4 | 370.0 | 348.8 | 342.4 | 339.6 |
| 2143.8 | 20° | 2216.0 | 2170.0 | 1761.8 | 1141.3 | 575.9 | 371.5 | 336.1 | 329.7 | 326.2 | 324.8 |
| 2221.7 | 22.5° | 2295.3 | 2216.7 | 1673.3 | 907.1 | 418.2 | 328.3 | 317.7 | 312.0 | 305.7 | 302.8 |
| 2297.4 | 25° | 2372.4 | 2243.6 | 1548.8 | 688.4 | 334.7 | 307.1 | 298.6 | 288.0 | 279.5 | 275.9 |
| 2378.7 | 27.5° | 2447.4 | 2260.6 | 1393.1 | 509.4 | 298.6 | 287.3 | 271.7 | 256.8 | 250.5 | 249.1 |
| 2465.8 | 30° | 2527.3 | 2266.2 | 1216.3 | 379.9 | 276.6 | 262.5 | 239.9 | 222.9 | 219.3 | 220.0 |
| 2583.2 | 32.5° | 2625.0 | 2274.7 | 1038.0 | 311.3 | 258.3 | 232.8 | 205.9 | 188.2 | 185.4 | 188.2 |
| 2754.4 | 35° | 2741.7 | 2291.7 | 866.0 | 286.6 | 242.0 | 202.4 | 173.3 | 158.5 | 155.7 | 157.8 |
| 2973.8 | 37.5° | 2900.2 | 2319.3 | 705.4 | 281.6 | 228.5 | 176.9 | 145.8 | 133.7 | 133.7 | 134.4 |
| 3242.7 | 40° | 3111.0 | 2392.9 | 561.8 | 278.1 | 221.5 | 157.8 | 123.1 | 118.2 | 120.3 | 121.7 |
| 3585.1 | 42.5° | 3367.9 | 2549.3 | 464.9 | 273.8 | 213.7 | 149.3 | 111.8 | 109.7 | 113.2 | 114.6 |
| 3995.5 | 45° | 3655.9 | 2747.4 | 430.9 | 266.7 | 206.6 | 155.0 | 106.8 | 104.0 | 108.3 | 109.0 |
| 4455.4 | 47.5° | 3953.7 | 2941.2 | 426.6 | 259.0 | 199.5 | 163.4 | 105.4 | 99.1 | 104.0 | 104.7 |
| 4946.4 | 50° | 4255.1 | 3067.9 | 430.9 | 246.9 | 188.2 | 163.4 | 106.1 | 94.1 | 98.3 | 100.5 |
| 5455.8 | 52.5° | 4558.7 | 3125.9 | 428.1 | 220.8 | 168.4 | 153.5 | 106.1 | 89.9 | 94.1 | 95.5 |
| 6006.3 | 55° | 4853.0 | 3114.6 | 384.9 | 181.8 | 142.9 | 135.8 | 103.3 | 86.3 | 89.1 | 89.9 |
| 6526.3 | 57.5° | 5085.8 | 2956.8 | 304.9 | 141.5 | 116.0 | 113.2 | 94.1 | 82.1 | 84.2 | 83.5 |
| 7003.2 | 60° | 5207.5 | 2610.1 | 217.9 | 109.0 | 91.3 | 89.1 | 82.8 | 76.4 | 77.8 | 74.3 |
| 7407.2 | 62.5° | 5208.9 | 2151.6 | 145.8 | 86.3 | 72.9 | 70.8 | 70.8 | 68.6 | 67.2 | 60.1 |
| 7720.0 | 65° | 5097.8 | 1642.9 | 96.9 | 68.6 | 58.7 | 55.2 | 59.4 | 58.7 | 53.8 | 43.9 |
| 7815.5 | 67.5° | 4845.9 | 1076.9 | 73.6 | 53.8 | 45.3 | 43.2 | 47.4 | 49.5 | 46.0 | 36.8 |
| 7467.4 | 70° | 4328.0 | 626.9 | 60.8 | 41.7 | 34.0 | 31.8 | 38.2 | 42.5 | 38.2 | 29.7 |
| 6382.7 | 72.5° | 3595.0 | 338.2 | 49.5 | 31.1 | 23.3 | 21.2 | 30.4 | 34.7 | 30.4 | 21.9 |
| 4095.2 | 75° | 2332.8 | 181.1 | 38.2 | 20.5 | 12.0 | 13.4 | 22.6 | 25.5 | 21.2 | 14.2 |
| 1202.1 | 77.5° | 783.2 | 80.0 | 24.1 | 9.9 | 5.7 | 5.7 | 13.4 | 15.6 | 9.9 | 5.0 |
| 218.6 | 80° | 174.8 | 33.3 | 9.9 | 4.2 | 2.1 | 2.1 | 2.8 | 2.8 | 1.4 | 0.0 |
| 67.2 | 82.5° | 57.3 | 13.4 | 4.2 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17.0 | 85° | 21.9 | 5.0 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5.7 | 87.5° | 8.5 | 0.7 | 0.0 | 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> |
| 1747.6 |
| 1724.3 |
| 1516.3 |
| 1206.4 |
| 810.1 |
| 487.5 |
| 361.6 |
| 338.9 |
| 323.3 |
| 302.1 |
| 274.5 |
| 247.6 |
| 220.0 |
| 187.5 |
| 157.1 |
| 133.7 |
| 121.7 |
| 114.6 |
| 109.7 |
| 105.4 |
| 101.2 |
| 95.5 |
| 89.9 |
| 83.5 |
| 73.6 |
| 58.0 |
| 42.5 |
| 36.1 |
| 28.3 |
| 21.2 |
| 12.7 |
| 4.2 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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