

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: P945337

Luminaire Tested: **GALN-SB1B-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-827-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4982 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

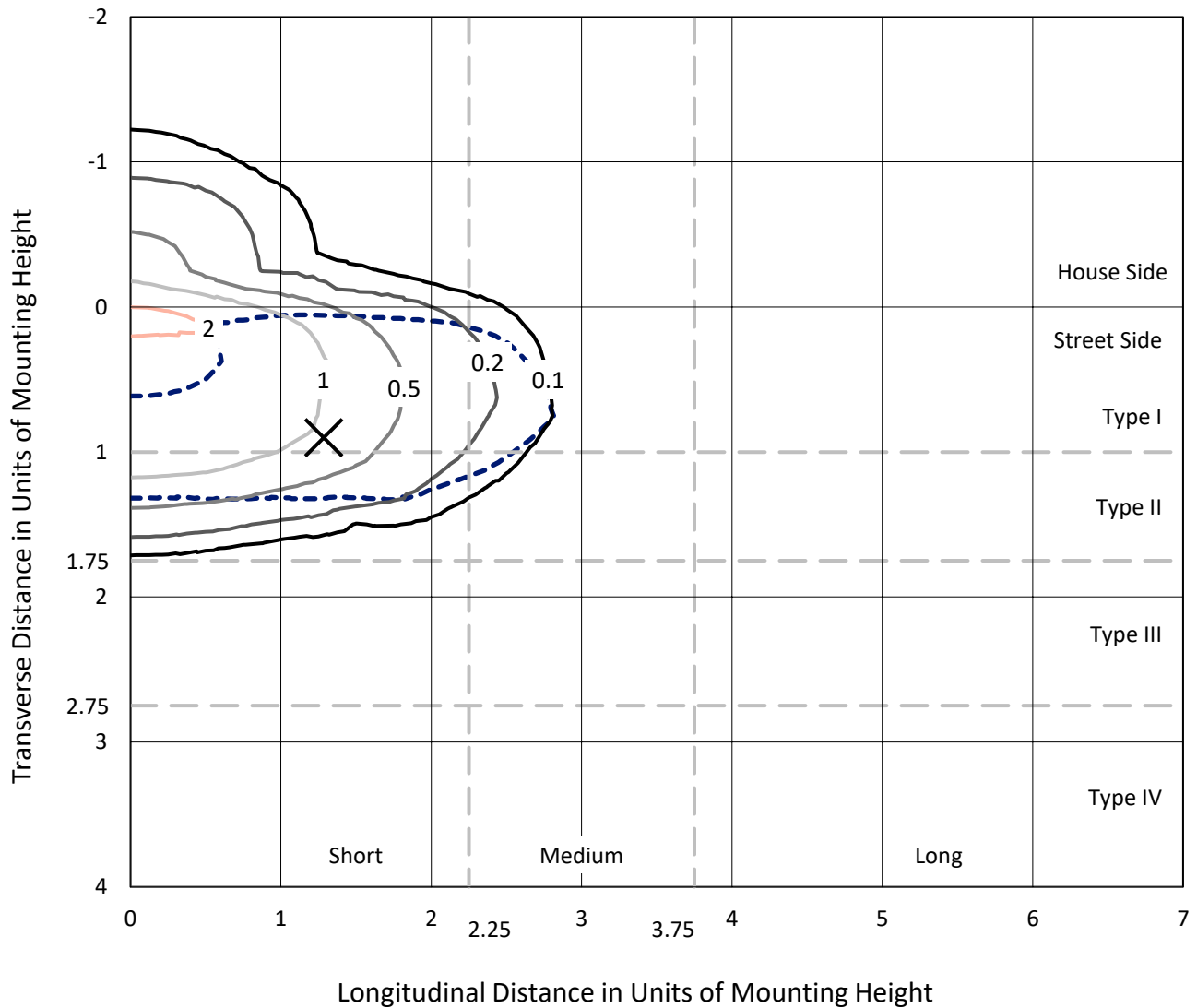
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

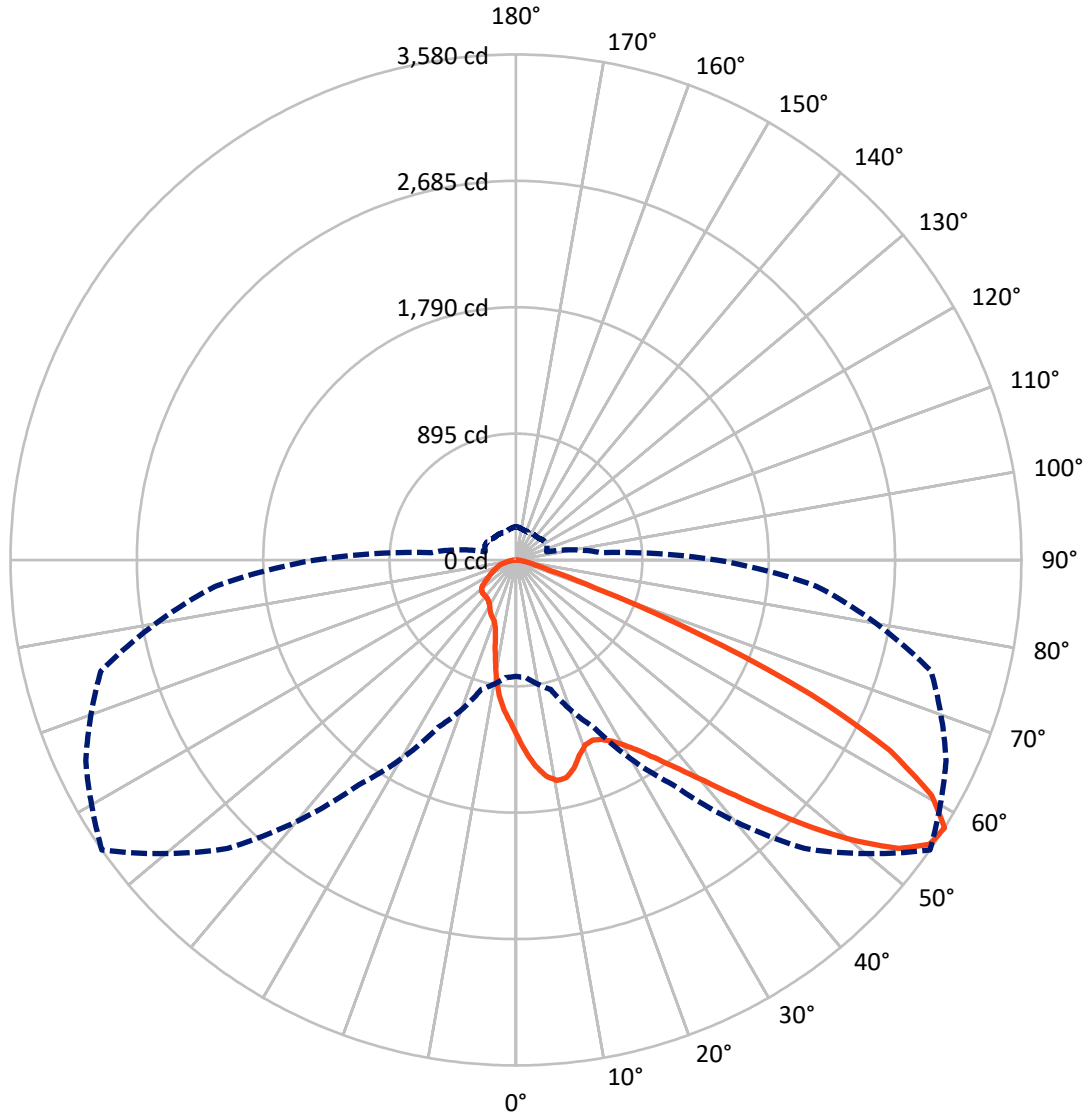
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 901.5 | 0.0 | 901.5 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 4080.5 | 0.0 | 4080.5 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 4982.0 | 0.0 | 4982.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 115.8 | 2.3 |
| 10°-20° | 292.4 | 5.9 |
| 20°-30° | 466.6 | 9.4 |
| 30°-40° | 738.7 | 14.8 |
| 40°-50° | 1130.6 | 22.7 |
| 50°-60° | 1211.0 | 24.3 |
| 60°-70° | 761.8 | 15.3 |
| 70°-80° | 225.3 | 4.5 |
| 80°-90° | 39.8 | 0.8 |
| 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° | 4982.0 | 100.0 |
| 0°-180° | 4982.0 | 100.0 |

Coefficient of Utilization



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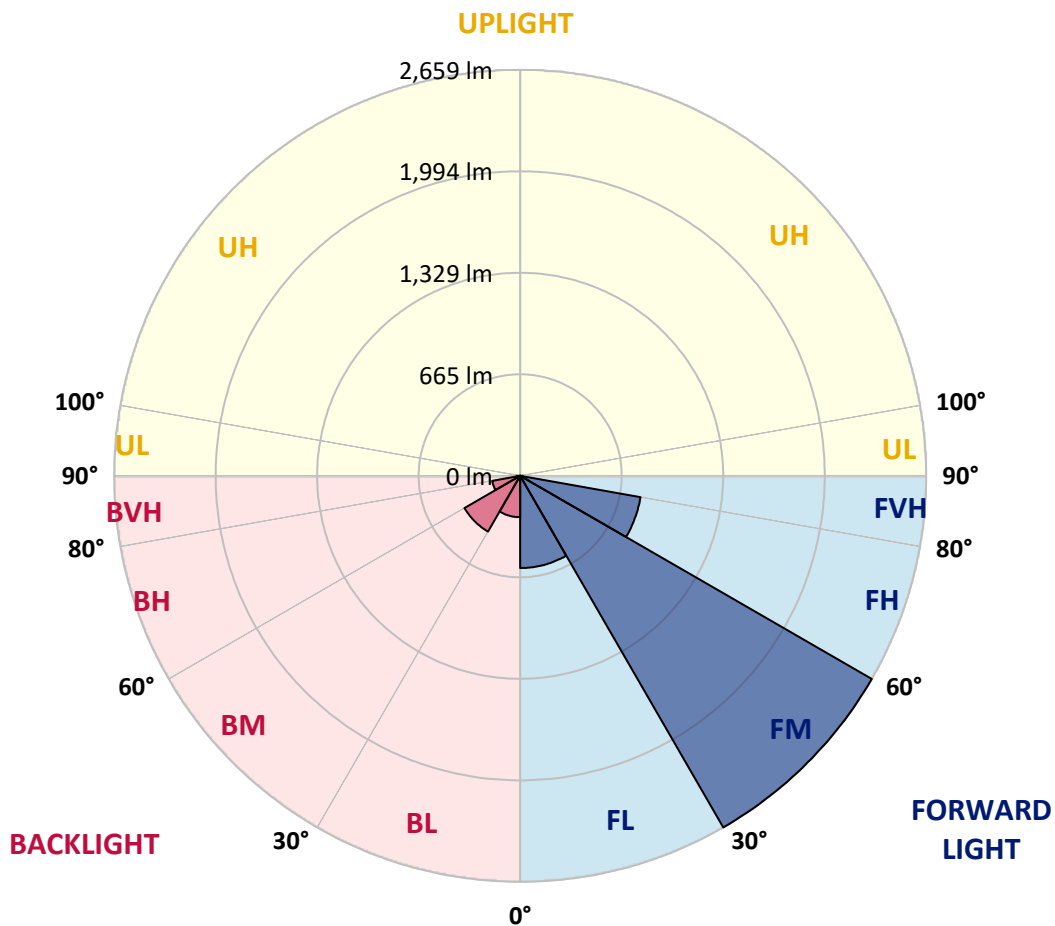
CATALOG NUMBER: GALN-SB1B-827-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 603.8 | 12.1 | | | |
| FM (30°-60°) | 2658.9 | 53.4 | | | |
| FH (60°-80°) | 801.0 | 16.1 | | | G1/1800 |
| FVH (80°-90°) | 16.8 | 0.3 | | | G1/100 |
| BL (0°-30°) | 271.0 | 5.4 | B1/500 | | |
| BM (30°-60°) | 421.3 | 8.5 | B1/1000 | | |
| BH (60°-80°) | 186.2 | 3.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 23.0 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1248.3 | 1248.3 | 1248.3 | 1248.3 | 1248.3 | 1248.3 | 1248.3 | 1248.3 | 1248.3 | 1248.3 |
| 2.5° | 1432.2 | 1431.2 | 1436.9 | 1417.5 | 1404.4 | 1386.6 | 1363.2 | 1333.3 | 1301.1 | 1267.1 |
| 5° | 1561.2 | 1552.2 | 1558.2 | 1543.7 | 1529.3 | 1502.5 | 1467.8 | 1419.1 | 1359.6 | 1291.9 |
| 7.5° | 1540.9 | 1534.7 | 1549.9 | 1562.8 | 1573.6 | 1570.3 | 1544.8 | 1493.8 | 1417.0 | 1318.6 |
| 10° | 1376.8 | 1369.9 | 1391.3 | 1435.8 | 1501.2 | 1558.2 | 1589.1 | 1557.4 | 1475.7 | 1348.0 |
| 12.5° | 1232.1 | 1228.8 | 1242.9 | 1279.0 | 1351.6 | 1460.8 | 1583.4 | 1613.0 | 1536.8 | 1382.8 |
| 15° | 1170.3 | 1166.2 | 1175.2 | 1193.5 | 1239.8 | 1341.6 | 1531.9 | 1651.1 | 1596.8 | 1422.9 |
| 17.5° | 1156.6 | 1152.0 | 1155.9 | 1165.4 | 1195.3 | 1272.8 | 1454.1 | 1669.9 | 1659.4 | 1467.8 |
| 20° | 1181.9 | 1178.0 | 1178.5 | 1178.0 | 1198.9 | 1260.4 | 1400.0 | 1662.7 | 1714.0 | 1509.0 |
| 22.5° | 1242.9 | 1236.5 | 1236.7 | 1223.1 | 1234.4 | 1282.1 | 1385.9 | 1643.4 | 1762.6 | 1545.0 |
| 25° | 1342.3 | 1330.7 | 1333.1 | 1298.3 | 1295.2 | 1330.5 | 1408.0 | 1628.5 | 1811.1 | 1573.9 |
| 27.5° | 1478.3 | 1465.2 | 1458.2 | 1406.5 | 1381.7 | 1399.2 | 1453.1 | 1633.6 | 1856.9 | 1598.8 |
| 30° | 1648.3 | 1632.3 | 1618.2 | 1544.8 | 1500.0 | 1493.5 | 1523.1 | 1667.6 | 1911.0 | 1625.1 |
| 32.5° | 1856.7 | 1838.1 | 1812.4 | 1715.0 | 1651.9 | 1618.2 | 1613.8 | 1728.1 | 1974.4 | 1658.6 |
| 35° | 2104.7 | 2080.5 | 2043.9 | 1917.9 | 1838.1 | 1769.1 | 1733.3 | 1815.4 | 2061.1 | 1709.1 |
| 37.5° | 2360.2 | 2332.9 | 2299.4 | 2149.5 | 2051.4 | 1949.6 | 1879.1 | 1933.9 | 2176.8 | 1777.6 |
| 40° | 2595.8 | 2565.2 | 2534.0 | 2400.6 | 2295.3 | 2172.7 | 2057.5 | 2083.8 | 2318.2 | 1859.5 |
| 42.5° | 2734.9 | 2712.2 | 2700.4 | 2628.3 | 2546.9 | 2422.5 | 2279.5 | 2261.5 | 2477.1 | 1953.7 |
| 45° | 2728.7 | 2719.4 | 2756.0 | 2785.9 | 2766.6 | 2697.5 | 2539.7 | 2458.0 | 2636.5 | 2035.4 |
| 47.5° | 2582.9 | 2589.1 | 2670.8 | 2838.7 | 2912.6 | 2948.6 | 2835.8 | 2650.9 | 2775.1 | 2096.4 |
| 50° | 2186.3 | 2191.5 | 2380.5 | 2742.6 | 2950.2 | 3153.4 | 3129.7 | 2839.2 | 2882.5 | 2133.8 |
| 52.5° | 1872.4 | 1875.7 | 1956.8 | 2457.8 | 2826.1 | 3256.4 | 3394.5 | 3016.6 | 2961.0 | 2144.1 |
| 55° | 1410.3 | 1421.9 | 1512.8 | 1928.3 | 2503.1 | 3174.8 | 3555.7 | 3199.5 | 3010.7 | 2145.1 |
| 57.5° | 823.9 | 836.5 | 948.8 | 1308.9 | 1945.5 | 2890.2 | 3580.2 | 3361.8 | 3044.5 | 2136.9 |
| 60° | 403.6 | 409.0 | 457.9 | 687.9 | 1199.7 | 2341.9 | 3383.4 | 3440.3 | 3063.3 | 2132.5 |
| 62.5° | 272.0 | 271.2 | 273.3 | 339.4 | 591.1 | 1504.6 | 2973.4 | 3302.8 | 3053.2 | 2115.7 |
| 65° | 233.9 | 231.0 | 223.3 | 238.2 | 306.2 | 688.2 | 2297.3 | 2892.2 | 2976.7 | 2073.8 |
| 67.5° | 202.2 | 202.4 | 202.7 | 198.1 | 218.7 | 317.6 | 1403.9 | 2278.3 | 2702.2 | 1874.9 |
| 70° | 167.4 | 169.7 | 170.8 | 170.8 | 178.2 | 208.4 | 599.3 | 1561.5 | 2131.5 | 1470.1 |
| 72.5° | 152.5 | 147.6 | 148.1 | 145.5 | 145.5 | 158.6 | 241.3 | 885.2 | 1342.8 | 827.0 |
| 75° | 124.4 | 127.5 | 128.0 | 126.2 | 120.3 | 121.0 | 143.2 | 371.4 | 574.6 | 343.1 |
| 77.5° | 107.4 | 107.4 | 108.4 | 107.1 | 102.5 | 90.7 | 95.5 | 144.0 | 195.5 | 140.6 |
| 80° | 86.3 | 86.0 | 90.4 | 93.0 | 85.8 | 67.0 | 61.0 | 79.6 | 86.8 | 61.8 |
| 82.5° | 42.0 | 44.6 | 62.1 | 70.8 | 65.2 | 48.4 | 37.3 | 49.4 | 46.4 | 27.3 |
| 85° | 24.5 | 23.2 | 27.8 | 39.4 | 37.3 | 26.8 | 18.0 | 25.8 | 24.2 | 13.9 |
| 87.5° | 7.7 | 7.2 | 5.7 | 13.4 | 10.8 | 7.5 | 4.9 | 7.5 | 6.7 | 3.1 |
| 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):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1248.3 | 0° | 1248.3 | 1248.3 | 1248.3 | 1248.3 | 1248.3 | 1248.3 | 1248.3 | 1248.3 | 1248.3 | 1248.3 |
| 1252.4 | 2.5° | 1234.2 | 1203.8 | 1173.6 | 1146.1 | 1129.3 | 1118.5 | 1107.7 | 1095.6 | 1091.0 | 1084.0 |
| 1255.8 | 5° | 1221.8 | 1163.1 | 1110.8 | 1065.7 | 1024.8 | 992.6 | 960.1 | 933.9 | 922.0 | 930.0 |
| 1266.4 | 7.5° | 1214.6 | 1129.6 | 1049.0 | 966.3 | 886.7 | 823.1 | 767.7 | 728.9 | 711.3 | 715.7 |
| 1276.7 | 10° | 1208.2 | 1091.7 | 968.9 | 838.3 | 724.0 | 645.2 | 588.5 | 558.9 | 547.8 | 550.1 |
| 1290.6 | 12.5° | 1202.2 | 1049.2 | 872.3 | 700.5 | 579.0 | 526.9 | 510.7 | 511.0 | 513.0 | 514.6 |
| 1312.7 | 15° | 1201.2 | 998.0 | 764.4 | 580.0 | 500.7 | 497.3 | 514.8 | 525.9 | 531.8 | 533.6 |
| 1331.3 | 17.5° | 1199.7 | 936.7 | 654.4 | 497.8 | 481.6 | 504.3 | 520.5 | 527.7 | 532.3 | 532.6 |
| 1349.3 | 20° | 1193.5 | 858.9 | 553.0 | 458.7 | 477.5 | 497.1 | 507.1 | 512.8 | 516.6 | 517.9 |
| 1362.9 | 22.5° | 1174.4 | 772.4 | 473.9 | 441.2 | 461.0 | 476.7 | 488.6 | 495.0 | 497.3 | 498.9 |
| 1365.5 | 25° | 1140.2 | 675.5 | 419.3 | 424.4 | 438.1 | 457.9 | 467.4 | 468.7 | 468.0 | 470.3 |
| 1359.1 | 27.5° | 1095.3 | 571.8 | 385.3 | 401.8 | 419.3 | 436.3 | 441.4 | 440.7 | 439.1 | 441.7 |
| 1348.0 | 30° | 1041.3 | 478.5 | 363.7 | 376.3 | 400.2 | 415.7 | 420.3 | 418.5 | 415.4 | 418.3 |
| 1342.3 | 32.5° | 984.1 | 402.3 | 345.9 | 358.5 | 384.5 | 399.7 | 404.3 | 402.5 | 400.2 | 402.5 |
| 1348.8 | 35° | 930.8 | 349.0 | 329.4 | 346.7 | 372.2 | 387.1 | 393.0 | 393.3 | 393.3 | 396.1 |
| 1365.8 | 37.5° | 881.8 | 317.8 | 315.8 | 339.2 | 363.7 | 377.0 | 385.5 | 386.1 | 375.0 | 375.8 |
| 1394.6 | 40° | 836.5 | 304.7 | 309.6 | 334.3 | 355.4 | 368.3 | 368.8 | 340.0 | 319.6 | 319.1 |
| 1427.6 | 42.5° | 799.4 | 302.1 | 311.4 | 333.8 | 349.5 | 350.0 | 313.7 | 291.3 | 285.6 | 285.9 |
| 1458.0 | 45° | 764.7 | 301.3 | 315.5 | 333.8 | 340.7 | 302.4 | 277.9 | 272.0 | 272.5 | 274.5 |
| 1471.6 | 47.5° | 725.8 | 298.2 | 316.3 | 329.1 | 315.5 | 268.9 | 261.7 | 259.1 | 258.1 | 258.6 |
| 1468.5 | 50° | 683.3 | 287.2 | 306.5 | 319.9 | 272.2 | 254.5 | 245.4 | 244.7 | 246.0 | 246.7 |
| 1451.3 | 52.5° | 638.5 | 269.1 | 289.7 | 303.1 | 252.4 | 241.8 | 231.8 | 233.6 | 239.3 | 241.1 |
| 1433.2 | 55° | 609.1 | 248.0 | 267.6 | 269.7 | 238.5 | 230.0 | 221.5 | 225.6 | 236.2 | 239.5 |
| 1422.4 | 57.5° | 601.4 | 225.6 | 242.4 | 240.0 | 220.7 | 219.7 | 214.5 | 218.1 | 231.5 | 236.4 |
| 1421.9 | 60° | 599.1 | 205.5 | 217.6 | 215.8 | 203.5 | 208.4 | 207.1 | 208.9 | 213.5 | 215.1 |
| 1416.8 | 62.5° | 581.0 | 189.6 | 195.5 | 192.9 | 188.0 | 196.5 | 199.6 | 195.7 | 199.3 | 201.1 |
| 1381.5 | 65° | 535.2 | 176.7 | 173.8 | 172.0 | 174.1 | 181.8 | 188.0 | 180.3 | 183.6 | 188.8 |
| 1245.5 | 67.5° | 459.5 | 159.2 | 151.4 | 153.5 | 159.9 | 164.1 | 172.0 | 163.3 | 166.1 | 174.9 |
| 1003.1 | 70° | 371.6 | 137.0 | 130.1 | 136.0 | 142.2 | 150.7 | 152.0 | 146.0 | 152.7 | 162.5 |
| 612.2 | 72.5° | 263.0 | 114.6 | 109.7 | 121.8 | 123.9 | 135.0 | 132.1 | 129.3 | 138.6 | 141.9 |
| 302.6 | 75° | 182.3 | 92.5 | 89.6 | 98.9 | 106.4 | 115.9 | 113.8 | 117.2 | 136.8 | 138.3 |
| 151.2 | 77.5° | 115.4 | 71.9 | 70.1 | 76.0 | 86.3 | 96.8 | 100.2 | 138.3 | 233.6 | 242.9 |
| 78.6 | 80° | 67.0 | 53.6 | 51.5 | 56.1 | 65.2 | 74.9 | 96.6 | 169.7 | 154.0 | 152.2 |
| 35.3 | 82.5° | 37.3 | 36.8 | 34.3 | 35.5 | 43.5 | 54.1 | 136.5 | 119.5 | 97.1 | 100.2 |
| 14.2 | 85° | 17.5 | 21.6 | 18.5 | 17.8 | 24.5 | 63.4 | 91.2 | 68.2 | 45.3 | 44.3 |
| 3.1 | 87.5° | 4.6 | 4.1 | 4.1 | 4.6 | 10.3 | 54.6 | 36.3 | 29.1 | 17.3 | 16.7 |
| 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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