

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: P945809

Luminaire Tested: **GALN-SB1C-927-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-927-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3861 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

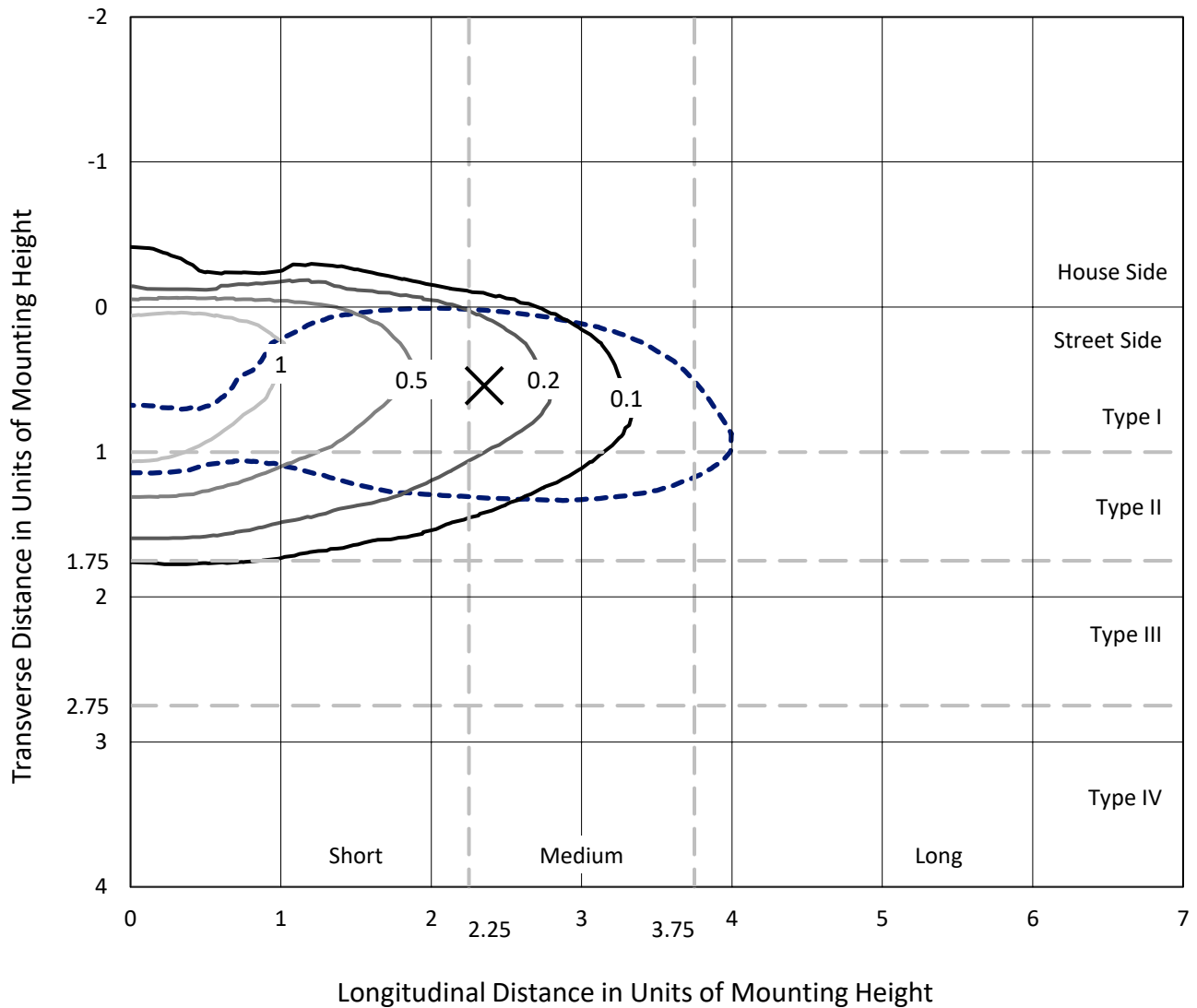
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 = 1.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 284.1 | 0.0 | 284.1 |
| | % Fixture | 7.4 | 0.0 | 7.4 |
| Street Side | Lumens | 3576.9 | 0.0 | 3576.9 |
| | % Fixture | 92.6 | 0.0 | 92.6 |
| Total | Lumens | 3861.0 | 0.0 | 3861.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 45.4 | 1.2 |
| 10°-20° | 159.1 | 4.1 |
| 20°-30° | 307.1 | 8.0 |
| 30°-40° | 533.1 | 13.8 |
| 40°-50° | 774.1 | 20.0 |
| 50°-60° | 888.9 | 23.0 |
| 60°-70° | 771.8 | 20.0 |
| 70°-80° | 363.5 | 9.4 |
| 80°-90° | 18.0 | 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° | 3861.0 | 100.0 |
| 0°-180° | 3861.0 | 100.0 |

Coefficient of Utilization



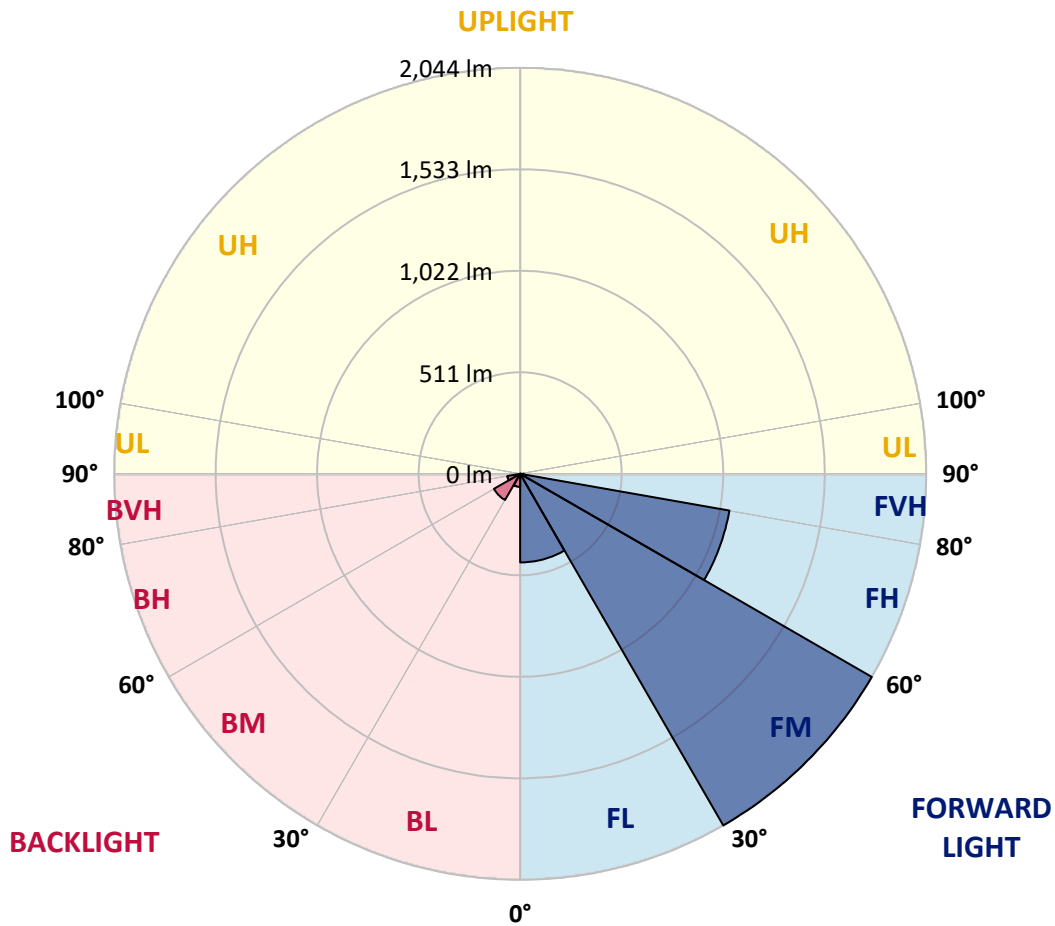
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 445.9 | 11.5 | | | |
| FM (30°-60°) | 2043.9 | 52.9 | | | |
| FH (60°-80°) | 1069.5 | 27.7 | | | G1/1800 |
| FVH (80°-90°) | 17.6 | 0.5 | | | G1/100 |
| BL (0°-30°) | 65.8 | 1.7 | B0/110 | | |
| BM (30°-60°) | 152.2 | 3.9 | B0/220 | | |
| BH (60°-80°) | 65.8 | 1.7 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 445.2 | 445.2 | 445.2 | 445.2 | 445.2 | 445.2 | 445.2 | 445.2 | 445.2 | 445.2 |
| 2.5° | 616.4 | 620.3 | 614.7 | 604.2 | 588.4 | 578.1 | 552.9 | 529.1 | 502.8 | 494.4 |
| 5° | 751.4 | 754.8 | 748.5 | 737.0 | 715.9 | 695.8 | 662.7 | 613.1 | 561.5 | 545.0 |
| 7.5° | 851.4 | 853.3 | 850.9 | 840.4 | 820.2 | 797.4 | 760.5 | 701.8 | 625.3 | 607.1 |
| 10° | 923.3 | 929.5 | 928.8 | 924.7 | 911.3 | 892.9 | 853.5 | 786.6 | 696.7 | 673.2 |
| 12.5° | 971.0 | 978.0 | 982.0 | 991.2 | 990.4 | 978.7 | 944.2 | 873.4 | 767.9 | 740.4 |
| 15° | 984.9 | 992.4 | 1007.9 | 1029.0 | 1047.7 | 1053.7 | 1029.5 | 958.6 | 846.3 | 811.1 |
| 17.5° | 977.0 | 988.5 | 1007.2 | 1040.5 | 1081.5 | 1108.6 | 1106.0 | 1040.8 | 917.6 | 877.3 |
| 20° | 994.5 | 1005.5 | 1020.2 | 1048.2 | 1095.9 | 1145.1 | 1164.7 | 1119.4 | 988.3 | 946.1 |
| 22.5° | 1091.4 | 1089.5 | 1090.9 | 1095.5 | 1124.0 | 1172.7 | 1213.2 | 1190.9 | 1058.3 | 1015.1 |
| 25° | 1244.8 | 1236.2 | 1221.6 | 1196.9 | 1189.7 | 1213.2 | 1255.4 | 1254.2 | 1132.1 | 1085.9 |
| 27.5° | 1420.8 | 1419.4 | 1385.1 | 1325.6 | 1292.1 | 1282.9 | 1303.1 | 1315.8 | 1205.3 | 1155.9 |
| 30° | 1589.4 | 1593.2 | 1546.9 | 1480.7 | 1419.1 | 1383.4 | 1365.2 | 1374.3 | 1279.6 | 1231.4 |
| 32.5° | 1736.1 | 1740.2 | 1689.8 | 1612.4 | 1536.1 | 1493.0 | 1454.6 | 1432.1 | 1360.6 | 1308.1 |
| 35° | 1860.0 | 1864.1 | 1806.3 | 1720.7 | 1639.5 | 1600.4 | 1557.0 | 1495.4 | 1442.1 | 1393.2 |
| 37.5° | 1970.8 | 1969.6 | 1892.2 | 1805.9 | 1726.0 | 1695.1 | 1672.3 | 1573.3 | 1526.1 | 1478.8 |
| 40° | 2036.3 | 2041.3 | 1975.1 | 1879.9 | 1802.5 | 1780.0 | 1778.5 | 1669.9 | 1622.9 | 1577.1 |
| 42.5° | 2055.4 | 2064.3 | 2016.4 | 1938.2 | 1868.0 | 1843.5 | 1881.1 | 1774.4 | 1735.6 | 1691.0 |
| 45° | 2020.9 | 2029.5 | 2007.7 | 1953.5 | 1912.5 | 1896.7 | 1969.4 | 1882.8 | 1856.0 | 1811.8 |
| 47.5° | 1920.2 | 1931.0 | 1936.3 | 1924.8 | 1924.3 | 1940.4 | 2048.5 | 1996.9 | 1998.9 | 1953.8 |
| 50° | 1725.3 | 1743.5 | 1791.9 | 1832.7 | 1895.8 | 1974.9 | 2125.5 | 2120.7 | 2160.0 | 2121.1 |
| 52.5° | 1370.9 | 1396.8 | 1563.7 | 1675.2 | 1816.9 | 1968.4 | 2210.1 | 2319.2 | 2442.7 | 2385.8 |
| 55° | 1101.7 | 1101.7 | 1237.4 | 1446.0 | 1663.0 | 1925.7 | 2247.0 | 2448.2 | 2635.2 | 2621.8 |
| 57.5° | 898.1 | 908.9 | 995.5 | 1179.8 | 1440.2 | 1824.1 | 2269.8 | 2529.2 | 2790.3 | 2780.5 |
| 60° | 554.3 | 577.6 | 741.1 | 923.1 | 1186.8 | 1643.1 | 2255.4 | 2611.2 | 2978.5 | 2986.4 |
| 62.5° | 312.2 | 320.8 | 393.7 | 664.1 | 922.8 | 1399.7 | 2145.4 | 2657.0 | 3219.2 | 3252.8 |
| 65° | 215.5 | 219.9 | 247.9 | 413.3 | 639.7 | 1114.4 | 1930.3 | 2628.5 | 3460.4 | 3528.3 |
| 67.5° | 156.6 | 158.7 | 176.2 | 252.5 | 379.5 | 808.0 | 1593.2 | 2484.6 | 3588.2 | 3701.6 |
| 70° | 120.4 | 121.8 | 134.5 | 165.9 | 224.2 | 498.7 | 1157.1 | 2198.6 | 3495.7 | 3631.1 |
| 72.5° | 97.8 | 99.3 | 109.1 | 122.8 | 148.6 | 294.9 | 701.3 | 1785.5 | 3087.1 | 3233.4 |
| 75° | 82.5 | 84.4 | 93.3 | 102.1 | 116.5 | 189.4 | 328.9 | 1243.4 | 2321.6 | 2417.5 |
| 77.5° | 45.8 | 42.2 | 75.8 | 84.6 | 98.3 | 119.9 | 153.9 | 731.7 | 1300.2 | 1326.8 |
| 80° | 28.5 | 29.5 | 60.2 | 68.1 | 75.5 | 60.4 | 70.5 | 281.7 | 450.7 | 428.2 |
| 82.5° | 1.7 | 3.8 | 46.3 | 49.2 | 51.8 | 25.9 | 26.6 | 95.7 | 108.6 | 99.7 |
| 85° | 0.0 | 0.0 | 21.1 | 17.0 | 18.0 | 7.4 | 7.7 | 22.3 | 14.6 | 15.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.7 | 1.4 | 1.9 | 0.7 | 1.0 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 445.2 | 0° | 445.2 | 445.2 | 445.2 | 445.2 | 445.2 | 445.2 | 445.2 | 445.2 | 445.2 | 445.2 |
| 468.0 | 2.5° | 451.2 | 434.4 | 400.4 | 367.1 | 340.0 | 314.8 | 296.8 | 279.8 | 271.2 | 270.7 |
| 498.2 | 5° | 464.9 | 429.6 | 361.6 | 301.4 | 252.9 | 214.1 | 188.9 | 170.9 | 161.8 | 158.7 |
| 535.4 | 7.5° | 484.1 | 431.1 | 327.5 | 243.8 | 186.8 | 153.4 | 139.1 | 133.3 | 131.4 | 129.2 |
| 577.3 | 10° | 508.3 | 434.4 | 297.1 | 196.4 | 147.2 | 130.4 | 124.7 | 122.3 | 120.8 | 119.4 |
| 624.6 | 12.5° | 535.4 | 437.6 | 266.9 | 163.0 | 129.5 | 120.8 | 116.8 | 113.9 | 112.0 | 110.3 |
| 673.0 | 15° | 561.8 | 439.5 | 235.4 | 139.8 | 120.4 | 113.4 | 109.1 | 106.0 | 103.3 | 101.4 |
| 720.5 | 17.5° | 587.9 | 442.1 | 206.0 | 125.9 | 112.9 | 106.0 | 101.7 | 97.8 | 95.7 | 93.5 |
| 770.3 | 20° | 616.9 | 441.6 | 178.1 | 116.0 | 105.5 | 98.5 | 94.0 | 90.4 | 88.2 | 85.8 |
| 823.1 | 22.5° | 643.7 | 439.2 | 153.7 | 107.7 | 97.8 | 91.1 | 86.1 | 82.5 | 80.3 | 78.4 |
| 877.0 | 25° | 674.7 | 437.3 | 133.3 | 100.0 | 90.6 | 83.9 | 78.4 | 75.0 | 72.6 | 71.0 |
| 931.2 | 27.5° | 704.4 | 434.4 | 118.4 | 93.0 | 83.7 | 77.2 | 71.9 | 68.1 | 65.9 | 64.7 |
| 987.1 | 30° | 733.7 | 433.7 | 112.9 | 86.3 | 77.4 | 71.0 | 65.7 | 62.1 | 60.4 | 59.9 |
| 1048.5 | 32.5° | 768.9 | 435.6 | 115.3 | 83.9 | 71.7 | 65.2 | 60.2 | 57.5 | 55.9 | 55.9 |
| 1116.8 | 35° | 806.5 | 435.2 | 118.9 | 86.1 | 67.9 | 59.5 | 55.6 | 53.9 | 52.3 | 52.3 |
| 1192.6 | 37.5° | 853.8 | 435.9 | 121.8 | 89.7 | 66.4 | 54.7 | 52.5 | 50.3 | 49.4 | 49.4 |
| 1275.5 | 40° | 924.3 | 459.6 | 120.4 | 92.8 | 65.9 | 51.3 | 47.0 | 46.3 | 45.6 | 45.6 |
| 1369.3 | 42.5° | 1010.6 | 511.2 | 122.3 | 93.0 | 65.7 | 48.9 | 43.2 | 44.6 | 42.9 | 42.7 |
| 1475.0 | 45° | 1105.0 | 567.5 | 134.5 | 88.0 | 65.5 | 47.7 | 41.2 | 42.9 | 40.3 | 40.3 |
| 1597.5 | 47.5° | 1198.8 | 623.4 | 147.0 | 80.8 | 64.7 | 47.5 | 39.6 | 38.6 | 37.9 | 38.1 |
| 1757.2 | 50° | 1328.0 | 668.9 | 151.8 | 71.0 | 63.1 | 47.0 | 36.4 | 36.7 | 36.2 | 36.7 |
| 1982.3 | 52.5° | 1468.8 | 678.5 | 146.0 | 59.9 | 58.3 | 45.6 | 34.3 | 35.2 | 35.0 | 35.5 |
| 2140.8 | 55° | 1556.5 | 668.2 | 120.6 | 49.9 | 50.8 | 39.8 | 32.1 | 34.0 | 34.0 | 34.0 |
| 2295.7 | 57.5° | 1647.1 | 624.3 | 85.6 | 40.5 | 42.2 | 32.6 | 30.2 | 32.8 | 32.6 | 32.4 |
| 2482.2 | 60° | 1712.3 | 553.4 | 56.3 | 33.3 | 33.6 | 26.9 | 28.1 | 30.9 | 30.7 | 29.5 |
| 2674.5 | 62.5° | 1761.0 | 475.0 | 36.2 | 28.3 | 25.7 | 24.2 | 25.7 | 28.1 | 27.1 | 24.5 |
| 2837.5 | 65° | 1755.5 | 366.3 | 27.8 | 24.2 | 21.1 | 21.1 | 22.3 | 24.5 | 21.6 | 17.3 |
| 2868.7 | 67.5° | 1653.1 | 247.9 | 23.0 | 20.4 | 17.7 | 17.5 | 18.5 | 20.4 | 18.5 | 14.6 |
| 2709.0 | 70° | 1470.2 | 162.1 | 18.5 | 15.8 | 14.1 | 12.9 | 14.9 | 17.5 | 15.6 | 11.7 |
| 2306.2 | 72.5° | 1193.3 | 98.8 | 13.9 | 11.5 | 10.3 | 8.4 | 11.7 | 14.4 | 12.5 | 8.6 |
| 1603.7 | 75° | 772.0 | 50.3 | 9.6 | 7.4 | 5.5 | 5.0 | 8.6 | 10.8 | 8.6 | 5.3 |
| 711.6 | 77.5° | 295.4 | 21.1 | 5.3 | 3.4 | 2.9 | 2.4 | 4.8 | 6.5 | 3.6 | 1.2 |
| 137.9 | 80° | 56.8 | 8.9 | 2.6 | 1.7 | 1.4 | 1.0 | 0.7 | 0.5 | 0.0 | 0.0 |
| 24.5 | 82.5° | 9.8 | 2.9 | 1.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4.8 | 85° | 3.4 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.7 | 87.5° | 1.2 | 0.0 | 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> |
| 445.2 |
| 270.2 |
| 158.2 |
| 128.7 |
| 118.9 |
| 109.8 |
| 101.2 |
| 93.3 |
| 85.6 |
| 78.2 |
| 70.7 |
| 64.7 |
| 59.7 |
| 55.9 |
| 52.3 |
| 49.4 |
| 45.6 |
| 42.4 |
| 40.3 |
| 38.1 |
| 36.7 |
| 35.5 |
| 34.0 |
| 32.4 |
| 29.5 |
| 24.0 |
| 16.8 |
| 14.1 |
| 11.3 |
| 8.2 |
| 4.6 |
| 1.0 |
| 0.0 |
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