

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: P946021

Luminaire Tested: **GALN-SB1D-750-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946021
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-SB1D-750-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8231 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

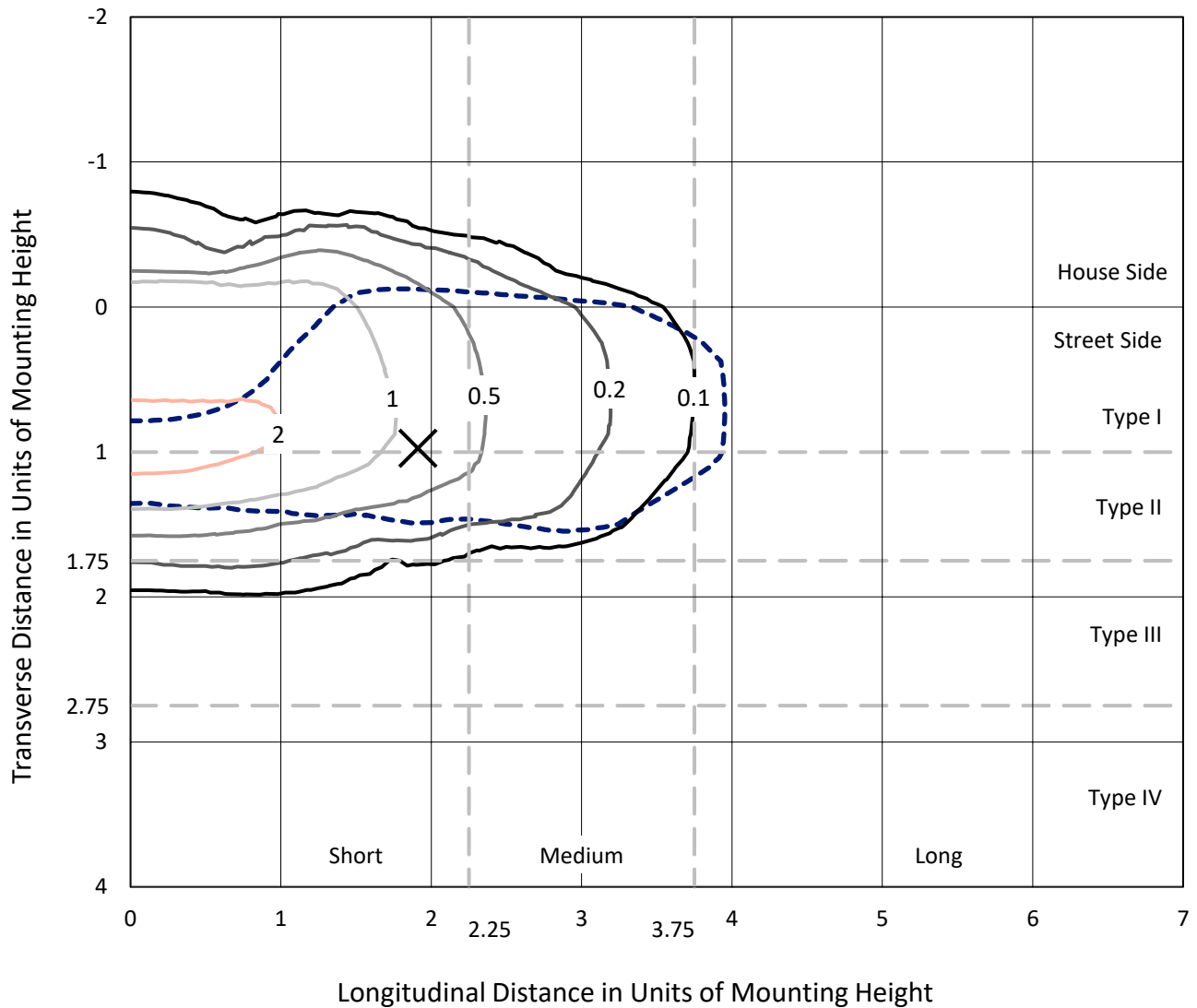
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

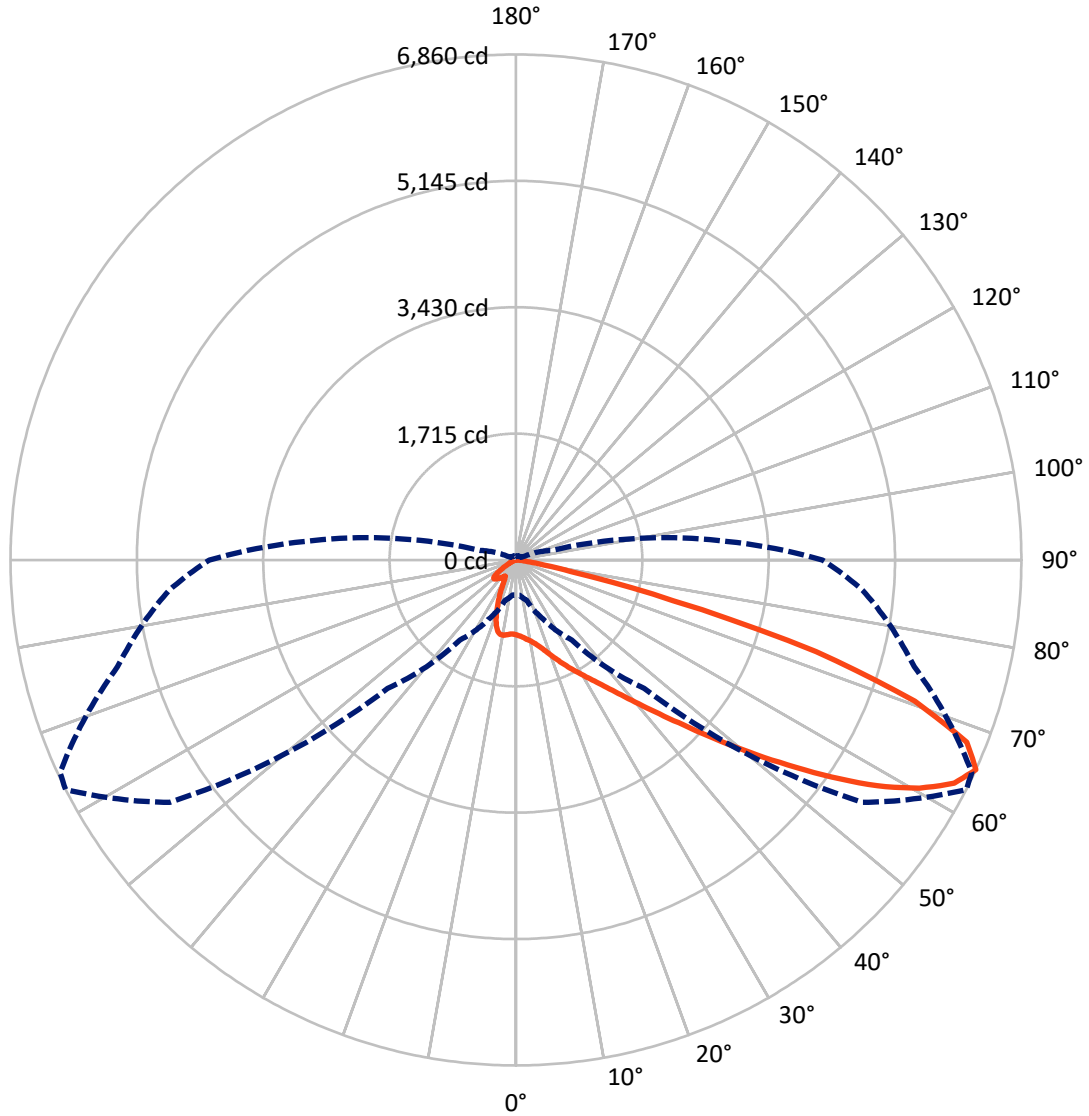
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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 | 1209.9 | 0.0 | 1209.9 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 7021.1 | 0.0 | 7021.1 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 8231.0 | 0.0 | 8231.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 95.7 | 1.2 |
| 10°-20° | 265.6 | 3.2 |
| 20°-30° | 462.4 | 5.6 |
| 30°-40° | 833.5 | 10.1 |
| 40°-50° | 1653.0 | 20.1 |
| 50°-60° | 2251.7 | 27.4 |
| 60°-70° | 1797.3 | 21.8 |
| 70°-80° | 813.3 | 9.9 |
| 80°-90° | 58.5 | 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° | 8231.0 | 100.0 |
| 0°-180° | 8231.0 | 100.0 |

Coefficient of Utilization



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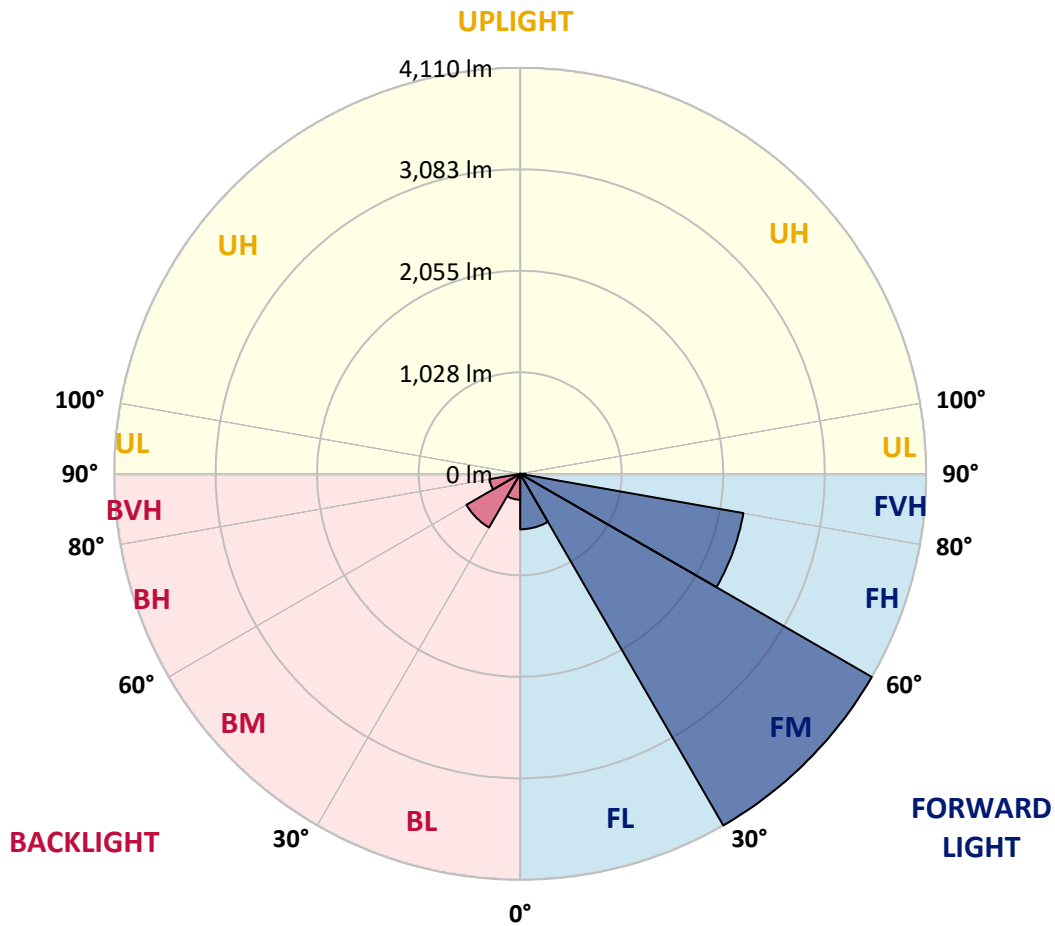
CATALOG NUMBER: GALN-SB1D-750-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 561.9 | 6.8 | | | |
| FM (30°-60°) | 4110.4 | 49.9 | | | |
| FH (60°-80°) | 2294.8 | 27.9 | | | G2/5000 |
| FVH (80°-90°) | 54.1 | 0.7 | | | G1/100 |
| BL (0°-30°) | 261.8 | 3.2 | B1/500 | | |
| BM (30°-60°) | 627.9 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 315.9 | 3.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.3 | 0.1 | | | 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 II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 63° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1015.9 | 1015.9 | 1015.9 | 1015.9 | 1015.9 | 1015.9 | 1015.9 | 1015.9 | 1015.9 | 1015.9 |
| 2.5° | 1039.6 | 1036.8 | 1040.8 | 1039.1 | 1037.9 | 1035.7 | 1034.5 | 1033.4 | 1031.1 | 1029.5 |
| 5° | 1042.5 | 1040.8 | 1044.7 | 1048.1 | 1051.5 | 1054.9 | 1056.6 | 1058.9 | 1056.6 | 1052.1 |
| 7.5° | 1018.7 | 1017.6 | 1026.1 | 1036.2 | 1051.5 | 1064.6 | 1078.7 | 1086.6 | 1087.2 | 1085.5 |
| 10° | 1017.0 | 1014.2 | 1022.7 | 1035.1 | 1054.9 | 1078.1 | 1103.1 | 1120.1 | 1122.3 | 1129.7 |
| 12.5° | 1043.6 | 1040.8 | 1052.7 | 1066.3 | 1086.6 | 1111.0 | 1141.6 | 1165.4 | 1168.7 | 1178.9 |
| 15° | 1088.3 | 1084.4 | 1098.0 | 1115.5 | 1141.6 | 1169.3 | 1201.6 | 1223.1 | 1225.9 | 1238.4 |
| 17.5° | 1140.4 | 1136.5 | 1152.3 | 1171.0 | 1199.3 | 1237.3 | 1274.6 | 1298.4 | 1301.8 | 1309.7 |
| 20° | 1207.3 | 1202.2 | 1214.6 | 1231.6 | 1261.6 | 1306.9 | 1351.6 | 1385.6 | 1385.1 | 1385.1 |
| 22.5° | 1284.8 | 1276.9 | 1287.7 | 1301.3 | 1329.6 | 1384.5 | 1443.9 | 1484.2 | 1484.2 | 1468.3 |
| 25° | 1368.1 | 1360.1 | 1372.0 | 1384.5 | 1409.4 | 1471.7 | 1541.3 | 1591.2 | 1593.4 | 1566.3 |
| 27.5° | 1472.3 | 1462.1 | 1471.1 | 1485.9 | 1500.6 | 1564.0 | 1646.7 | 1704.4 | 1705.6 | 1663.7 |
| 30° | 1672.7 | 1643.8 | 1615.5 | 1599.7 | 1606.5 | 1669.3 | 1757.7 | 1821.6 | 1827.3 | 1769.5 |
| 32.5° | 2039.6 | 2034.0 | 1934.3 | 1804.1 | 1736.1 | 1782.6 | 1881.7 | 1958.7 | 1962.1 | 1887.9 |
| 35° | 2609.9 | 2603.1 | 2442.8 | 2194.8 | 1973.4 | 1934.3 | 2032.3 | 2123.5 | 2121.2 | 2037.4 |
| 37.5° | 3290.5 | 3284.3 | 3073.1 | 2741.2 | 2382.8 | 2163.7 | 2226.5 | 2322.2 | 2336.4 | 2226.5 |
| 40° | 3872.0 | 3848.8 | 3715.2 | 3395.3 | 2926.4 | 2544.2 | 2502.8 | 2566.3 | 2581.0 | 2450.8 |
| 42.5° | 4312.6 | 4292.8 | 4224.8 | 4024.9 | 3584.4 | 3107.0 | 2828.4 | 2852.8 | 2869.2 | 2712.9 |
| 45° | 4540.8 | 4536.3 | 4563.4 | 4544.8 | 4254.8 | 3797.9 | 3293.9 | 3192.5 | 3198.8 | 3003.4 |
| 47.5° | 4573.1 | 4570.8 | 4694.8 | 4870.4 | 4831.3 | 4577.0 | 3891.3 | 3616.1 | 3594.0 | 3331.3 |
| 50° | 4382.8 | 4378.3 | 4616.1 | 4945.1 | 5216.3 | 5231.6 | 4569.7 | 4093.5 | 4044.8 | 3670.5 |
| 52.5° | 3775.2 | 3774.1 | 4164.8 | 4712.4 | 5351.7 | 5804.7 | 5240.1 | 4617.8 | 4536.3 | 4029.5 |
| 55° | 2904.9 | 2925.8 | 3373.7 | 4021.0 | 5104.8 | 6080.4 | 5842.0 | 5199.9 | 5074.8 | 4390.7 |
| 57.5° | 2057.8 | 2088.3 | 2531.2 | 3107.6 | 4339.2 | 5917.4 | 6249.2 | 5783.2 | 5648.4 | 4750.9 |
| 60° | 1105.3 | 1132.5 | 1575.9 | 2263.9 | 3228.2 | 5309.2 | 6463.8 | 6289.4 | 6162.0 | 5092.9 |
| 62.5° | 658.6 | 667.6 | 851.1 | 1461.5 | 2183.5 | 4056.1 | 6372.6 | 6675.0 | 6570.3 | 5380.0 |
| 65° | 472.8 | 474.5 | 566.8 | 892.4 | 1325.6 | 2464.3 | 5733.3 | 6859.6 | 6827.3 | 5596.3 |
| 67.5° | 398.1 | 396.9 | 435.4 | 592.9 | 903.2 | 1234.4 | 4394.1 | 6598.6 | 6735.6 | 5733.3 |
| 70° | 341.5 | 343.2 | 388.5 | 434.3 | 678.9 | 698.8 | 2184.6 | 5745.2 | 6037.4 | 5769.6 |
| 72.5° | 254.2 | 259.9 | 301.8 | 395.8 | 512.5 | 480.8 | 754.3 | 4259.9 | 4788.2 | 5436.0 |
| 75° | 179.5 | 182.3 | 212.3 | 333.0 | 382.2 | 349.9 | 385.1 | 2202.2 | 2879.4 | 4167.6 |
| 77.5° | 138.2 | 143.3 | 160.8 | 232.7 | 376.6 | 245.8 | 235.6 | 762.2 | 1171.0 | 2517.6 |
| 80° | 74.7 | 83.8 | 116.1 | 168.2 | 264.4 | 173.8 | 116.6 | 303.5 | 396.9 | 1177.2 |
| 82.5° | 38.5 | 43.0 | 81.0 | 121.2 | 150.6 | 151.8 | 57.8 | 126.3 | 163.6 | 363.5 |
| 85° | 15.3 | 18.7 | 54.4 | 66.8 | 77.6 | 74.7 | 26.0 | 51.0 | 58.9 | 100.8 |
| 87.5° | 3.4 | 5.7 | 19.8 | 15.3 | 14.7 | 15.9 | 6.2 | 11.9 | 11.3 | 11.9 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1015.9 | 0° | 1015.9 | 1015.9 | 1015.9 | 1015.9 | 1015.9 | 1015.9 | 1015.9 | 1015.9 | 1015.9 | 1015.9 |
| 1022.7 | 2.5° | 1022.1 | 1019.8 | 1013.6 | 1006.8 | 998.9 | 994.3 | 991.5 | 990.9 | 987.0 | 984.2 |
| 1045.3 | 5° | 1039.1 | 1036.8 | 1024.9 | 1010.8 | 995.5 | 983.6 | 972.3 | 962.1 | 947.3 | 944.5 |
| 1078.1 | 7.5° | 1073.1 | 1066.8 | 1047.6 | 1028.3 | 999.4 | 964.9 | 923.0 | 874.9 | 831.8 | 818.8 |
| 1121.8 | 10° | 1115.0 | 1106.5 | 1082.1 | 1048.1 | 984.2 | 890.2 | 788.8 | 694.8 | 620.0 | 599.1 |
| 1173.3 | 12.5° | 1162.5 | 1155.2 | 1122.9 | 1060.0 | 920.2 | 749.7 | 594.6 | 477.9 | 405.4 | 387.3 |
| 1228.2 | 15° | 1219.1 | 1208.4 | 1163.7 | 1041.9 | 805.8 | 569.7 | 408.3 | 339.2 | 313.1 | 309.7 |
| 1291.1 | 17.5° | 1279.2 | 1261.6 | 1199.9 | 976.8 | 651.8 | 404.9 | 315.4 | 295.6 | 284.3 | 280.9 |
| 1354.5 | 20° | 1334.1 | 1311.4 | 1221.4 | 878.3 | 487.0 | 315.4 | 282.6 | 269.5 | 259.3 | 255.4 |
| 1417.9 | 22.5° | 1389.0 | 1356.7 | 1221.4 | 744.1 | 365.2 | 279.7 | 259.3 | 247.5 | 235.6 | 230.5 |
| 1485.9 | 25° | 1446.2 | 1403.2 | 1199.9 | 594.6 | 293.9 | 256.5 | 237.3 | 224.2 | 214.0 | 207.8 |
| 1550.4 | 27.5° | 1501.7 | 1442.3 | 1150.6 | 453.0 | 261.6 | 236.1 | 216.9 | 204.4 | 194.8 | 190.3 |
| 1620.6 | 30° | 1554.4 | 1480.8 | 1081.5 | 343.7 | 240.7 | 216.3 | 198.2 | 187.4 | 177.8 | 173.3 |
| 1711.8 | 32.5° | 1625.7 | 1529.5 | 1007.9 | 282.0 | 222.5 | 197.6 | 181.2 | 171.0 | 162.5 | 159.1 |
| 1830.1 | 35° | 1724.8 | 1601.4 | 944.5 | 276.9 | 207.2 | 182.3 | 165.9 | 156.3 | 147.8 | 145.0 |
| 1983.0 | 37.5° | 1865.2 | 1717.5 | 911.1 | 310.9 | 194.8 | 168.7 | 153.5 | 143.3 | 135.3 | 133.1 |
| 2177.2 | 40° | 2038.5 | 1874.9 | 929.2 | 344.8 | 186.3 | 156.9 | 142.1 | 131.9 | 125.1 | 122.3 |
| 2400.4 | 42.5° | 2244.1 | 2069.1 | 1029.5 | 370.9 | 180.6 | 146.7 | 131.4 | 120.0 | 115.5 | 114.4 |
| 2653.5 | 45° | 2480.2 | 2282.6 | 1182.9 | 398.6 | 171.6 | 137.0 | 120.6 | 112.1 | 108.7 | 108.2 |
| 2928.7 | 47.5° | 2748.6 | 2517.0 | 1360.7 | 433.2 | 162.5 | 128.0 | 112.1 | 106.5 | 103.6 | 102.5 |
| 3215.8 | 50° | 3014.7 | 2753.1 | 1543.6 | 452.4 | 155.2 | 119.5 | 105.3 | 100.8 | 98.5 | 98.0 |
| 3519.3 | 52.5° | 3293.3 | 2996.1 | 1691.4 | 434.3 | 148.9 | 112.7 | 99.7 | 96.3 | 94.0 | 93.4 |
| 3799.0 | 55° | 3558.9 | 3192.5 | 1716.9 | 368.6 | 136.5 | 105.9 | 93.4 | 91.7 | 88.9 | 88.9 |
| 4082.7 | 57.5° | 3787.7 | 3291.1 | 1536.8 | 270.7 | 124.0 | 95.7 | 87.2 | 85.5 | 83.2 | 82.7 |
| 4338.6 | 60° | 3997.8 | 3262.8 | 1186.3 | 182.3 | 110.4 | 85.5 | 79.3 | 78.1 | 75.9 | 73.0 |
| 4561.2 | 62.5° | 4116.1 | 3138.2 | 811.4 | 118.9 | 96.8 | 74.7 | 70.2 | 69.6 | 64.6 | 58.9 |
| 4726.0 | 65° | 4160.8 | 2882.2 | 506.2 | 86.6 | 81.0 | 64.0 | 60.6 | 59.5 | 52.1 | 45.9 |
| 4819.4 | 67.5° | 4121.8 | 2460.9 | 255.4 | 68.5 | 64.0 | 53.2 | 49.8 | 49.8 | 44.7 | 39.1 |
| 4813.7 | 70° | 3965.5 | 1844.9 | 107.6 | 54.9 | 49.3 | 40.8 | 40.8 | 43.0 | 37.9 | 31.7 |
| 4564.0 | 72.5° | 3626.3 | 1241.2 | 57.2 | 41.9 | 36.8 | 28.9 | 33.4 | 35.1 | 30.0 | 23.8 |
| 3735.6 | 75° | 2882.8 | 757.1 | 39.6 | 31.1 | 23.2 | 20.4 | 25.5 | 26.6 | 20.4 | 15.9 |
| 2561.2 | 77.5° | 1971.7 | 434.9 | 26.6 | 19.8 | 14.7 | 11.9 | 17.6 | 16.4 | 10.8 | 7.4 |
| 987.5 | 80° | 865.8 | 181.2 | 15.3 | 9.1 | 5.7 | 4.5 | 6.2 | 4.5 | 3.4 | 2.3 |
| 135.3 | 82.5° | 101.4 | 42.5 | 5.7 | 3.4 | 2.3 | 1.1 | 0.6 | 0.0 | 0.0 | 0.0 |
| 41.3 | 85° | 21.0 | 5.1 | 2.8 | 1.1 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.4 | 87.5° | 4.0 | 1.1 | 0.6 | 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> |
| 1015.9 |
| 987.0 |
| 943.4 |
| 812.6 |
| 591.2 |
| 382.2 |
| 306.3 |
| 279.2 |
| 253.1 |
| 227.6 |
| 205.6 |
| 190.3 |
| 173.8 |
| 159.1 |
| 145.0 |
| 132.5 |
| 121.7 |
| 114.4 |
| 107.6 |
| 102.5 |
| 98.0 |
| 93.4 |
| 88.3 |
| 82.1 |
| 72.5 |
| 57.8 |
| 45.3 |
| 38.5 |
| 31.1 |
| 23.8 |
| 15.3 |
| 7.9 |
| 2.3 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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