

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: P939155

Luminaire Tested: **GALN-SB1C-840-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-840-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7100 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

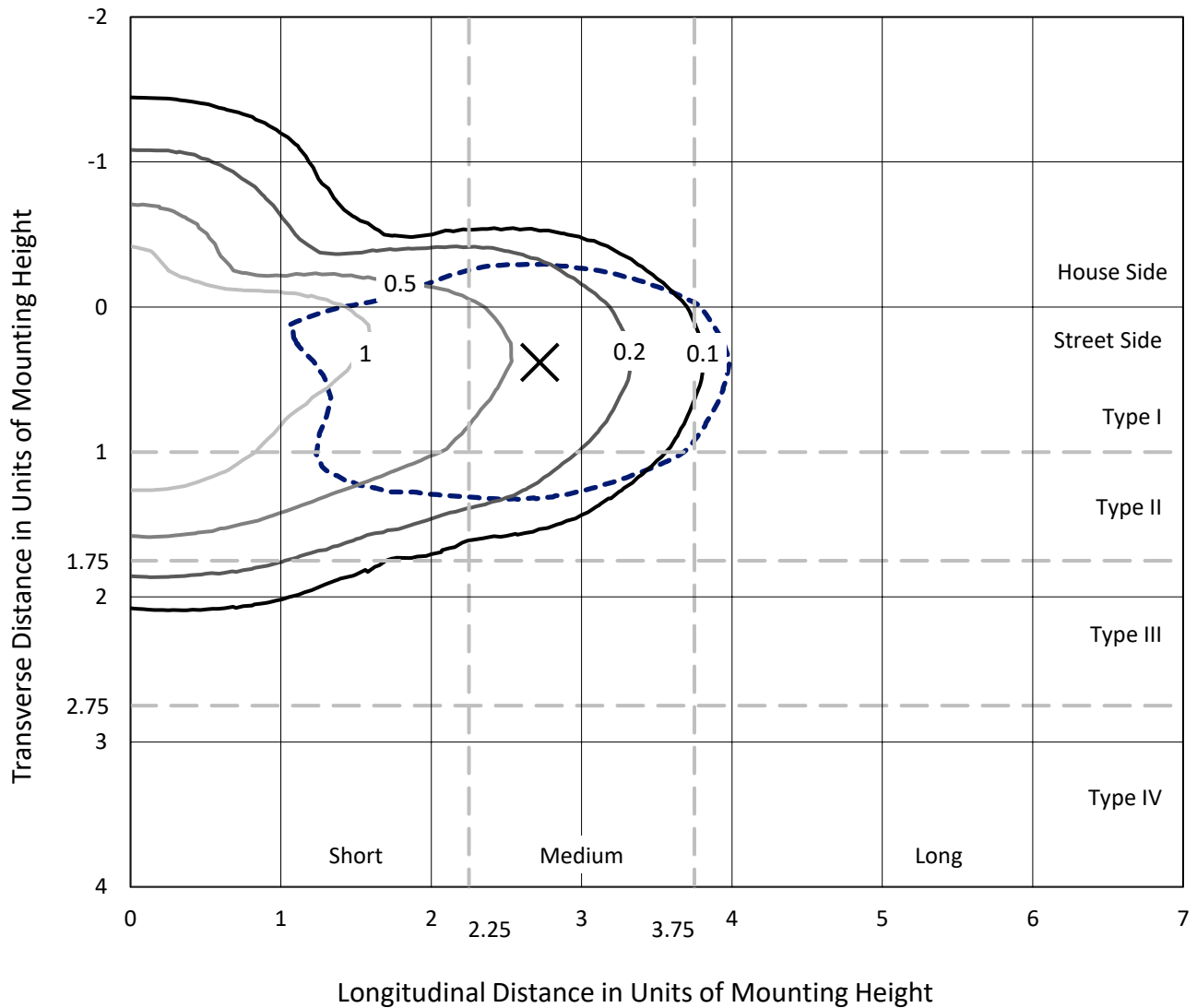
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

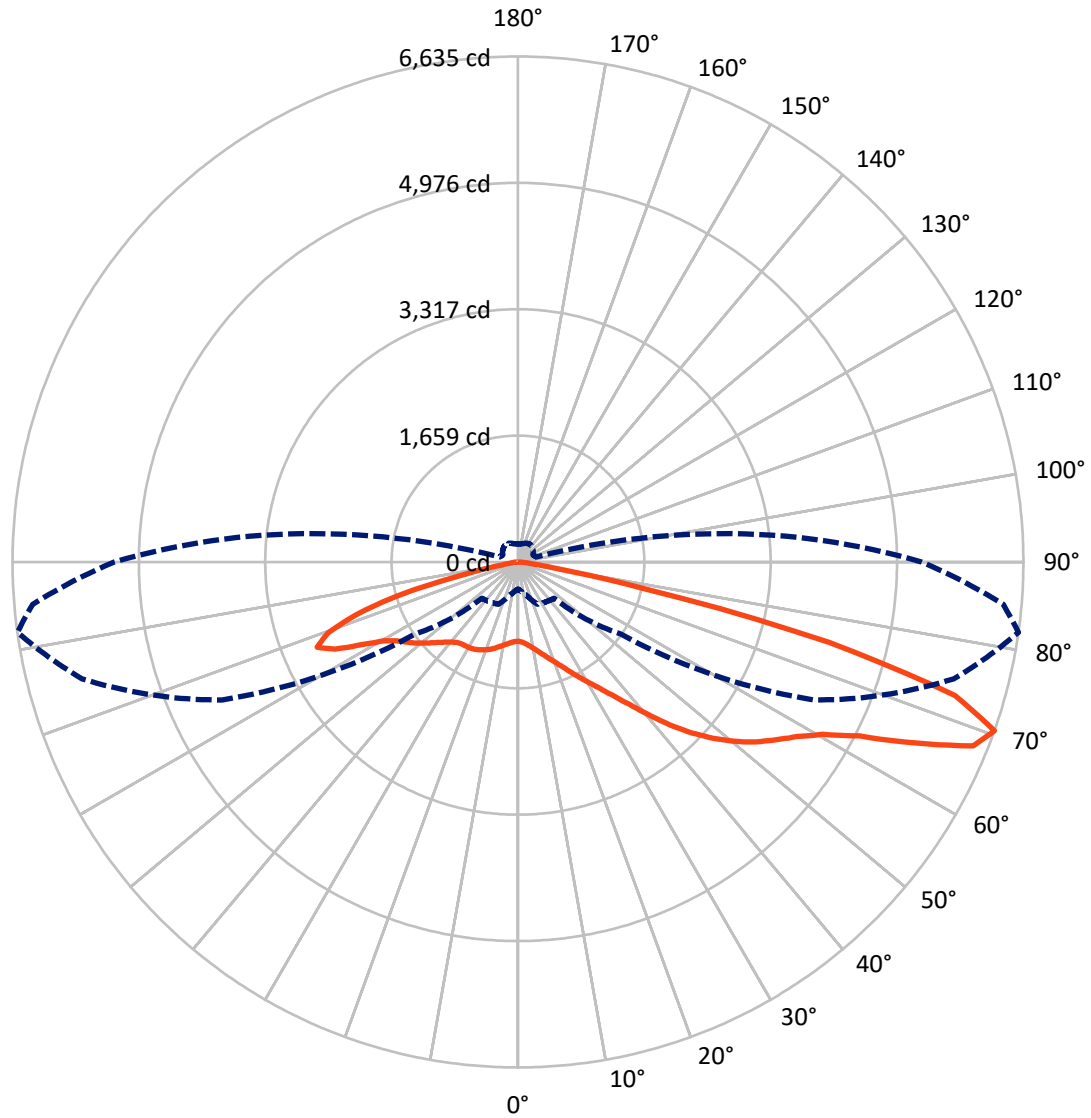
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1750.3 | 0.0 | 1750.3 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 5349.7 | 0.0 | 5349.7 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 7100.0 | 0.0 | 7100.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 98.3 | 1.4 |
| 10°-20° | 282.4 | 4.0 |
| 20°-30° | 472.4 | 6.7 |
| 30°-40° | 738.0 | 10.4 |
| 40°-50° | 1175.3 | 16.6 |
| 50°-60° | 1635.6 | 23.0 |
| 60°-70° | 1710.9 | 24.1 |
| 70°-80° | 894.2 | 12.6 |
| 80°-90° | 92.9 | 1.3 |
| 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° | 7100.0 | 100.0 |
| 0°-180° | 7100.0 | 100.0 |

Coefficient of Utilization



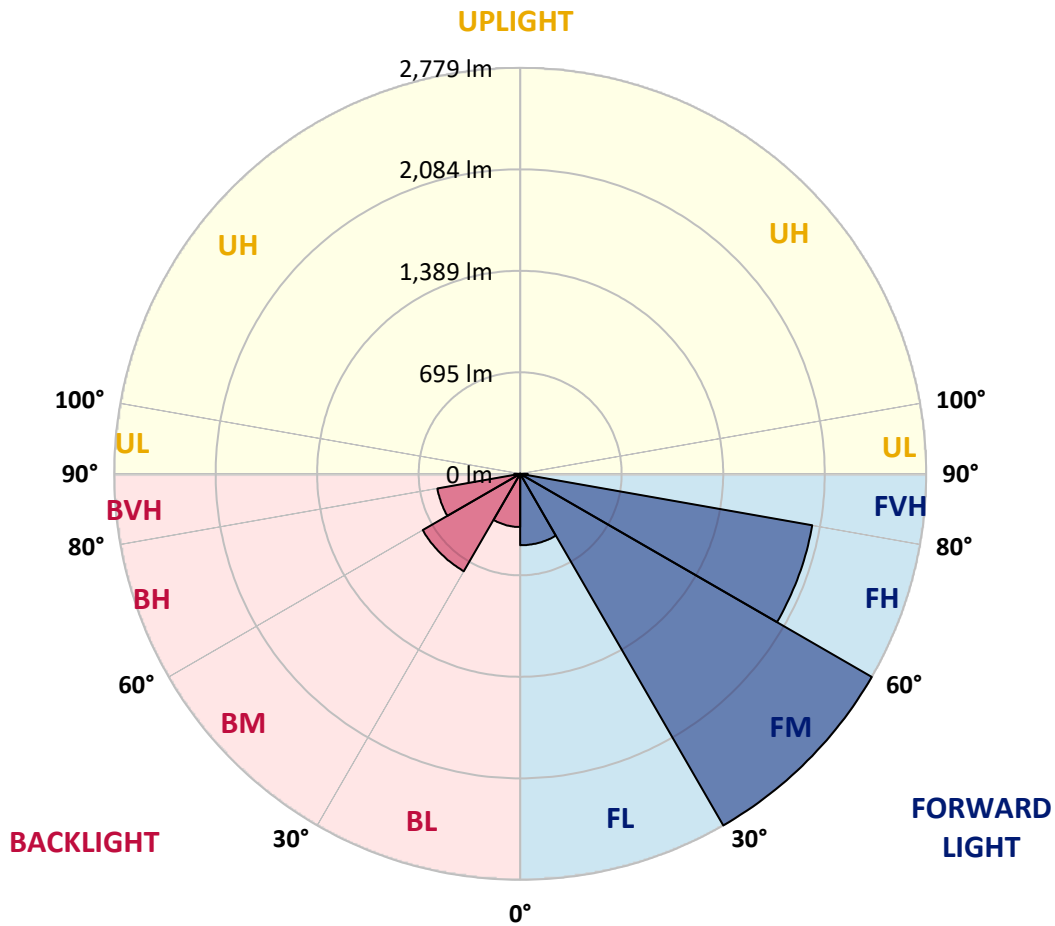
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 488.9 | 6.9 | | | |
| FM (30°-60°) | 2778.9 | 39.1 | | | |
| FH (60°-80°) | 2029.9 | 28.6 | | | G2/5000 |
| FVH (80°-90°) | 52.0 | 0.7 | | | G1/100 |
| BL (0°-30°) | 364.1 | 5.1 | B1/500 | | |
| BM (30°-60°) | 770.1 | 10.8 | B1/1000 | | |
| BH (60°-80°) | 575.2 | 8.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 40.9 | 0.6 | | | G1/100 |
| 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 Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1040.9 | 1040.9 | 1040.9 | 1040.9 | 1040.9 | 1040.9 | 1040.9 | 1040.9 | 1040.9 | 1040.9 |
| 2.5° | 1065.8 | 1071.8 | 1070.0 | 1068.1 | 1068.1 | 1065.4 | 1065.1 | 1061.3 | 1058.3 | 1053.4 |
| 5° | 1079.4 | 1085.8 | 1085.0 | 1086.5 | 1091.4 | 1092.6 | 1093.7 | 1091.4 | 1085.4 | 1079.4 |
| 7.5° | 1067.3 | 1074.5 | 1076.7 | 1085.8 | 1100.9 | 1114.4 | 1124.6 | 1128.7 | 1123.1 | 1114.4 |
| 10° | 1026.6 | 1034.5 | 1042.5 | 1063.9 | 1090.7 | 1122.7 | 1149.8 | 1166.0 | 1164.9 | 1156.6 |
| 12.5° | 944.1 | 952.4 | 969.4 | 1011.2 | 1060.2 | 1116.7 | 1167.2 | 1201.1 | 1212.7 | 1206.7 |
| 15° | 878.2 | 885.4 | 898.2 | 941.1 | 1004.8 | 1090.7 | 1173.6 | 1239.5 | 1269.3 | 1265.9 |
| 17.5° | 876.3 | 879.3 | 887.2 | 907.6 | 956.6 | 1050.0 | 1166.8 | 1277.2 | 1334.1 | 1333.7 |
| 20° | 909.5 | 910.6 | 915.1 | 919.3 | 947.1 | 1019.1 | 1149.5 | 1308.4 | 1406.8 | 1406.8 |
| 22.5° | 955.4 | 954.7 | 959.2 | 955.4 | 969.0 | 1016.5 | 1138.5 | 1335.9 | 1487.8 | 1493.8 |
| 25° | 1024.4 | 1020.6 | 1019.5 | 1010.8 | 1013.4 | 1040.9 | 1150.6 | 1367.2 | 1583.8 | 1596.3 |
| 27.5° | 1116.3 | 1110.3 | 1106.1 | 1086.2 | 1079.4 | 1091.4 | 1187.5 | 1404.9 | 1690.8 | 1712.3 |
| 30° | 1236.1 | 1225.2 | 1219.1 | 1184.5 | 1160.0 | 1161.9 | 1243.3 | 1455.0 | 1802.7 | 1837.4 |
| 32.5° | 1399.6 | 1382.7 | 1366.5 | 1309.6 | 1264.7 | 1250.0 | 1315.2 | 1524.3 | 1924.0 | 1979.4 |
| 35° | 1582.7 | 1569.1 | 1551.8 | 1464.0 | 1395.1 | 1361.2 | 1412.4 | 1621.1 | 2066.1 | 2153.9 |
| 37.5° | 1759.0 | 1747.3 | 1755.6 | 1637.3 | 1548.4 | 1499.1 | 1539.8 | 1751.1 | 2241.3 | 2370.9 |
| 40° | 1941.4 | 1932.3 | 1933.5 | 1820.4 | 1716.8 | 1661.4 | 1694.2 | 1914.2 | 2442.1 | 2628.9 |
| 42.5° | 2139.5 | 2132.8 | 2110.2 | 2009.9 | 1893.5 | 1841.9 | 1872.1 | 2102.6 | 2657.6 | 2922.8 |
| 45° | 2361.4 | 2357.3 | 2336.2 | 2221.3 | 2087.9 | 2029.9 | 2070.6 | 2310.6 | 2874.2 | 3199.3 |
| 47.5° | 2553.2 | 2556.6 | 2554.0 | 2457.1 | 2318.9 | 2233.7 | 2282.3 | 2527.6 | 3075.8 | 3459.3 |
| 50° | 2645.5 | 2663.2 | 2689.2 | 2659.1 | 2573.2 | 2486.5 | 2495.9 | 2737.1 | 3267.9 | 3703.0 |
| 52.5° | 2597.3 | 2630.8 | 2701.6 | 2749.9 | 2783.0 | 2764.9 | 2739.7 | 2945.0 | 3448.7 | 3923.1 |
| 55° | 2417.6 | 2464.7 | 2582.2 | 2698.6 | 2867.8 | 2999.3 | 3032.4 | 3175.6 | 3625.0 | 4116.7 |
| 57.5° | 2090.2 | 2166.7 | 2272.2 | 2507.6 | 2792.4 | 3112.7 | 3373.8 | 3495.4 | 3811.9 | 4323.5 |
| 60° | 1528.8 | 1631.3 | 1762.4 | 2112.8 | 2528.7 | 3052.0 | 3664.2 | 3986.7 | 4077.5 | 4591.4 |
| 62.5° | 978.4 | 1041.7 | 1162.3 | 1492.3 | 1970.4 | 2741.2 | 3753.1 | 4600.8 | 4527.7 | 5030.7 |
| 65° | 669.9 | 710.5 | 820.9 | 1006.3 | 1273.8 | 2040.5 | 3515.0 | 5061.2 | 5242.8 | 5726.9 |
| 67.5° | 486.8 | 517.6 | 611.8 | 774.2 | 830.0 | 1207.5 | 2727.6 | 5040.1 | 5937.9 | 6444.2 |
| 70° | 354.9 | 376.7 | 455.9 | 611.8 | 638.6 | 671.7 | 1652.4 | 4284.4 | 5922.8 | 6634.9 |
| 72.5° | 263.0 | 278.0 | 331.2 | 474.7 | 516.9 | 453.6 | 817.9 | 3113.8 | 5089.5 | 6001.2 |
| 75° | 190.3 | 201.6 | 240.7 | 363.2 | 413.7 | 345.5 | 408.0 | 1819.7 | 3550.1 | 4221.4 |
| 77.5° | 145.4 | 154.1 | 179.7 | 266.0 | 331.2 | 259.2 | 253.2 | 837.1 | 1683.3 | 1691.6 |
| 80° | 116.8 | 122.4 | 136.4 | 187.2 | 253.9 | 194.0 | 165.0 | 337.9 | 532.0 | 450.2 |
| 82.5° | 85.9 | 95.3 | 115.3 | 131.5 | 181.6 | 133.7 | 100.6 | 170.7 | 202.3 | 174.1 |
| 85° | 49.0 | 55.4 | 69.7 | 94.2 | 116.0 | 81.8 | 57.6 | 75.7 | 94.2 | 77.2 |
| 87.5° | 17.3 | 22.6 | 24.5 | 36.9 | 50.5 | 33.9 | 22.2 | 21.9 | 30.9 | 23.0 |
| 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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 CATALOG NUMBER: GALN-SB1C-840-U-T2

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1040.9 | 0° | 1040.9 | 1040.9 | 1040.9 | 1040.9 | 1040.9 | 1040.9 | 1040.9 | 1040.9 | 1040.9 | 1040.9 |
| 1052.3 | 2.5° | 1048.5 | 1046.6 | 1039.1 | 1028.9 | 1018.3 | 1008.2 | 1004.8 | 997.6 | 992.7 | 990.1 |
| 1076.7 | 5° | 1069.6 | 1063.6 | 1045.8 | 1023.2 | 999.5 | 973.9 | 955.8 | 939.2 | 927.2 | 915.9 |
| 1110.3 | 7.5° | 1099.7 | 1089.2 | 1058.7 | 1019.1 | 976.9 | 934.3 | 902.7 | 878.6 | 862.4 | 851.8 |
| 1149.5 | 10° | 1134.8 | 1118.6 | 1071.8 | 1012.7 | 947.5 | 886.5 | 849.2 | 828.5 | 818.3 | 812.6 |
| 1194.3 | 12.5° | 1175.1 | 1152.1 | 1085.4 | 998.0 | 902.7 | 833.0 | 807.4 | 801.3 | 801.7 | 802.1 |
| 1250.8 | 15° | 1224.8 | 1192.8 | 1096.3 | 966.0 | 844.3 | 791.9 | 787.4 | 797.2 | 807.4 | 812.3 |
| 1314.8 | 17.5° | 1280.9 | 1235.7 | 1098.2 | 913.2 | 787.0 | 765.5 | 779.9 | 801.0 | 816.4 | 823.2 |
| 1386.4 | 20° | 1341.2 | 1279.4 | 1084.7 | 838.6 | 739.9 | 744.1 | 769.7 | 796.8 | 813.8 | 822.4 |
| 1468.2 | 22.5° | 1410.2 | 1326.1 | 1052.3 | 760.3 | 701.5 | 720.7 | 750.9 | 777.2 | 794.9 | 803.6 |
| 1564.2 | 25° | 1488.9 | 1378.5 | 1001.4 | 694.3 | 668.3 | 694.3 | 724.5 | 746.3 | 760.6 | 768.6 |
| 1671.6 | 27.5° | 1576.3 | 1433.1 | 933.6 | 642.0 | 639.3 | 667.2 | 692.1 | 709.0 | 716.6 | 722.6 |
| 1785.8 | 30° | 1664.1 | 1482.9 | 851.4 | 602.4 | 614.1 | 640.5 | 658.2 | 665.7 | 668.0 | 669.1 |
| 1913.1 | 32.5° | 1759.0 | 1525.8 | 765.2 | 569.6 | 590.0 | 614.5 | 625.0 | 628.4 | 617.9 | 610.7 |
| 2067.6 | 35° | 1873.9 | 1571.8 | 680.8 | 543.6 | 566.2 | 587.3 | 590.7 | 587.7 | 575.3 | 560.6 |
| 2261.2 | 37.5° | 2016.0 | 1629.0 | 613.3 | 525.2 | 544.0 | 558.0 | 553.8 | 553.1 | 554.2 | 536.9 |
| 2494.1 | 40° | 2190.0 | 1703.6 | 564.0 | 510.9 | 525.9 | 529.0 | 517.3 | 523.7 | 529.3 | 503.0 |
| 2749.5 | 42.5° | 2383.3 | 1793.7 | 532.7 | 501.1 | 510.9 | 503.7 | 485.6 | 492.8 | 492.0 | 457.4 |
| 3006.1 | 45° | 2580.3 | 1891.6 | 521.8 | 493.9 | 496.9 | 482.6 | 462.6 | 464.5 | 448.7 | 417.4 |
| 3252.1 | 47.5° | 2776.2 | 1996.8 | 528.6 | 487.9 | 479.6 | 463.4 | 448.0 | 439.7 | 416.3 | 392.9 |
| 3487.9 | 50° | 2968.4 | 2107.1 | 553.4 | 475.8 | 455.9 | 446.4 | 435.1 | 420.4 | 395.6 | 375.6 |
| 3710.9 | 52.5° | 3146.6 | 2218.3 | 581.3 | 455.9 | 426.1 | 431.8 | 424.6 | 407.6 | 383.2 | 362.8 |
| 3921.9 | 55° | 3315.4 | 2329.4 | 592.2 | 428.4 | 398.2 | 418.9 | 414.8 | 383.5 | 354.1 | 337.6 |
| 4142.7 | 57.5° | 3499.2 | 2463.2 | 580.2 | 393.3 | 375.6 | 404.2 | 388.4 | 353.8 | 336.8 | 324.4 |
| 4430.2 | 60° | 3753.9 | 2673.0 | 554.2 | 350.0 | 354.1 | 382.4 | 355.3 | 341.0 | 322.5 | 308.6 |
| 4861.2 | 62.5° | 4177.0 | 3064.5 | 512.4 | 307.0 | 328.9 | 350.0 | 339.4 | 325.1 | 306.3 | 292.7 |
| 5598.1 | 65° | 4802.4 | 3608.5 | 433.6 | 273.5 | 300.6 | 318.4 | 322.5 | 308.2 | 288.6 | 274.3 |
| 6243.8 | 67.5° | 5329.8 | 3949.8 | 328.1 | 245.6 | 271.6 | 292.7 | 304.4 | 290.5 | 269.8 | 255.8 |
| 6394.9 | 70° | 5300.8 | 3701.9 | 250.5 | 218.1 | 246.0 | 267.5 | 282.6 | 271.6 | 249.4 | 236.2 |
| 5808.7 | 72.5° | 4708.2 | 3096.9 | 202.7 | 190.3 | 220.0 | 241.1 | 259.2 | 250.9 | 228.3 | 215.5 |
| 4255.3 | 75° | 3458.9 | 2198.3 | 162.0 | 162.0 | 187.6 | 213.6 | 233.6 | 228.3 | 207.6 | 198.5 |
| 1786.5 | 77.5° | 1458.0 | 922.3 | 127.0 | 134.5 | 156.0 | 183.5 | 208.3 | 210.2 | 192.1 | 203.4 |
| 472.4 | 80° | 387.7 | 254.3 | 96.8 | 105.9 | 122.4 | 151.5 | 181.2 | 180.5 | 160.9 | 150.3 |
| 175.6 | 82.5° | 147.7 | 100.2 | 68.9 | 74.6 | 88.5 | 116.0 | 143.5 | 148.1 | 128.5 | 111.1 |
| 68.9 | 85° | 56.9 | 42.9 | 42.6 | 44.8 | 51.6 | 76.9 | 108.5 | 112.3 | 96.8 | 82.1 |
| 19.2 | 87.5° | 14.7 | 12.8 | 15.8 | 15.1 | 23.7 | 41.1 | 62.2 | 64.4 | 59.1 | 34.3 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O

| <u>180°</u> |
|-------------|
| 1040.9 |
| 993.1 |
| 920.4 |
| 854.1 |
| 814.1 |
| 802.8 |
| 811.9 |
| 824.7 |
| 824.7 |
| 805.9 |
| 770.8 |
| 724.9 |
| 671.7 |
| 613.0 |
| 561.4 |
| 538.0 |
| 503.7 |
| 457.0 |
| 418.6 |
| 392.9 |
| 374.1 |
| 363.2 |
| 336.1 |
| 323.2 |
| 307.8 |
| 292.7 |
| 275.0 |
| 256.2 |
| 237.3 |
| 215.5 |
| 195.9 |
| 184.6 |
| 139.8 |
| 111.1 |
| 84.8 |
| 49.0 |
| 0.0 |

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