

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: STREETWORKS

Report Number: P846135

Luminaire Tested: **GLAN-SB1C-840-U-T2-HSS**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P846135  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB1C-840-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH  
HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4865 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

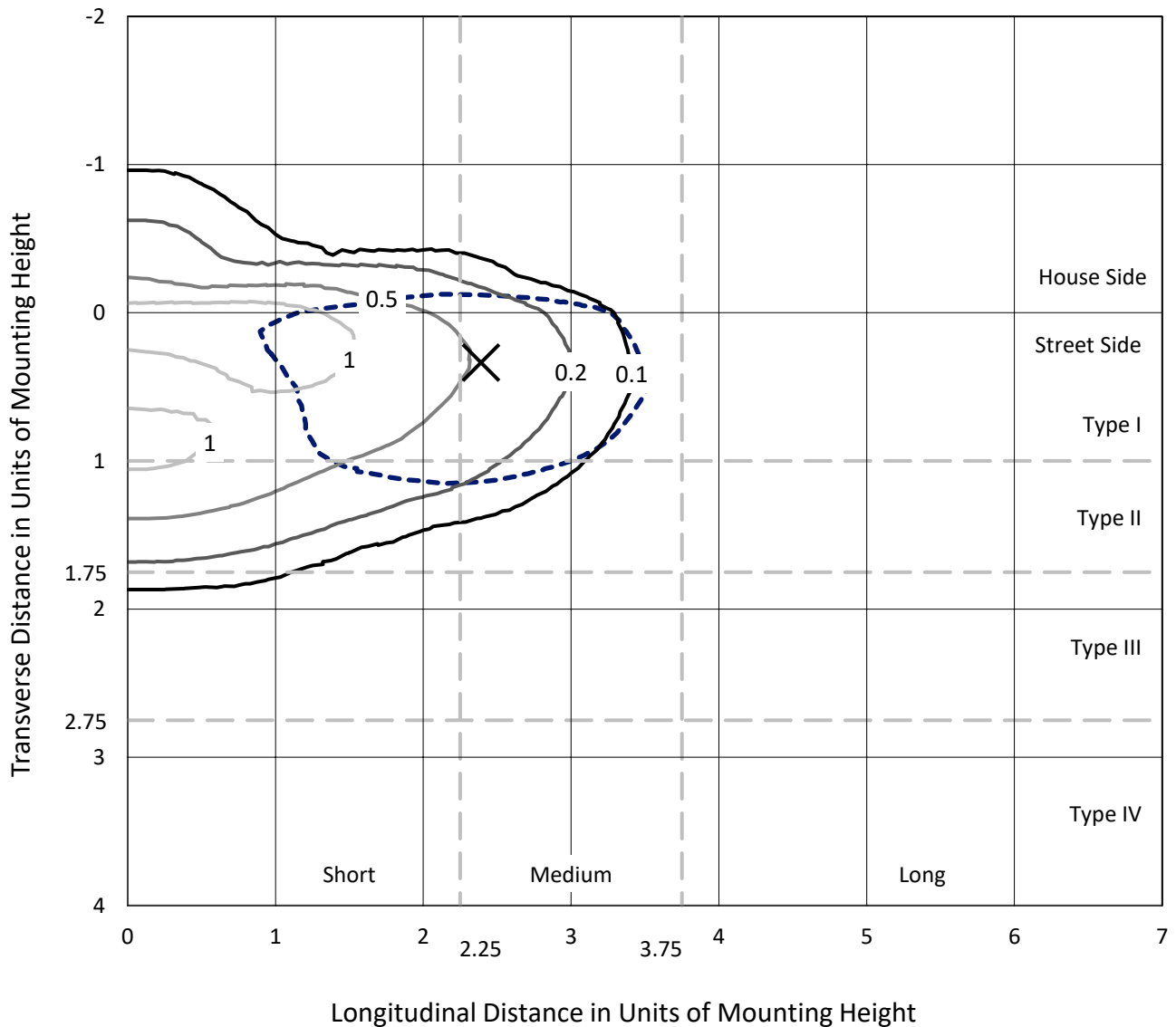
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

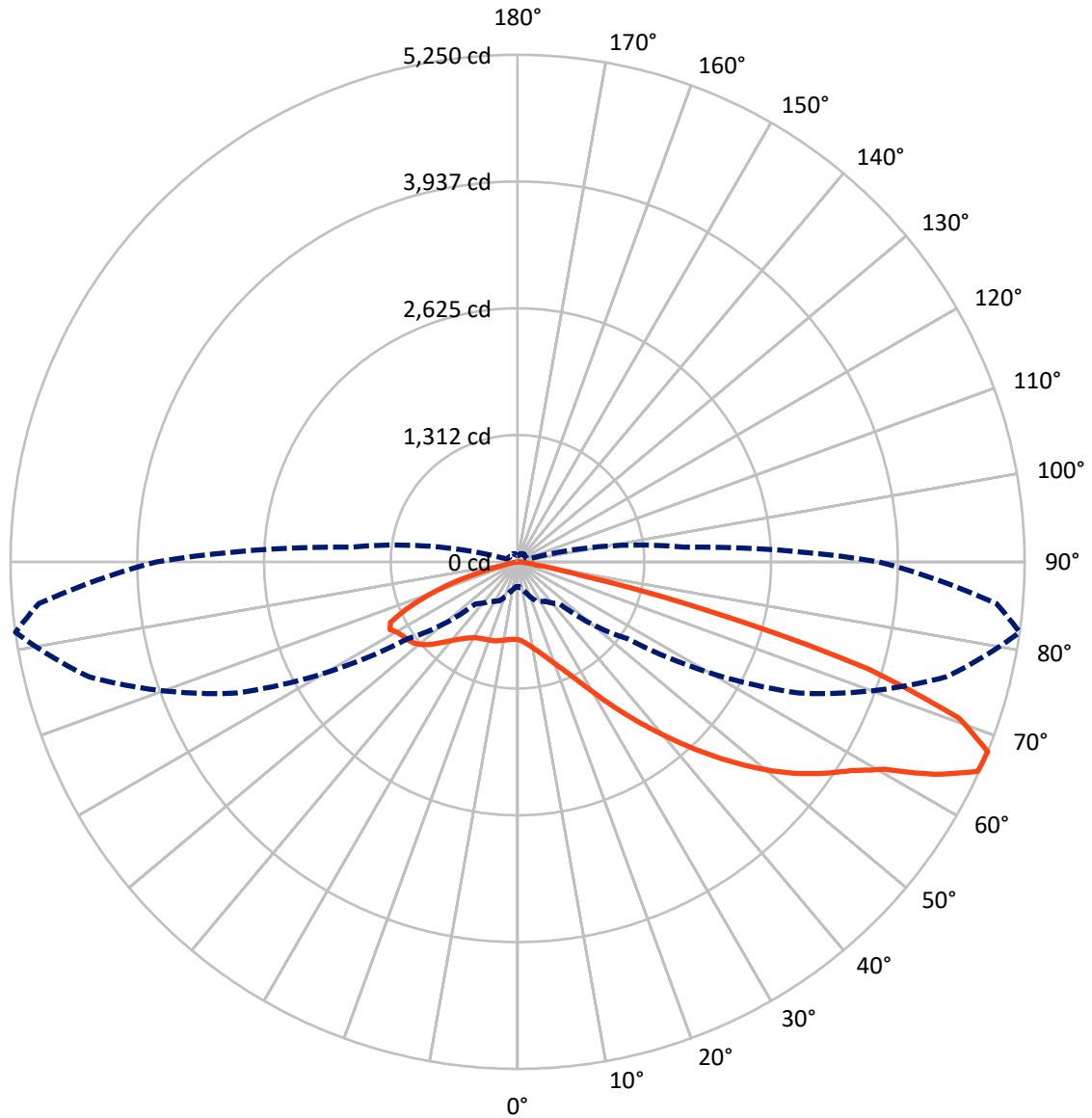
× Max cd  
 - - - 1/2 Max cd



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



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 881.3    | 0.0    | 881.3  |
|                    | % Fixture | 18.1     | 0.0    | 18.1   |
| <b>Street Side</b> | Lumens    | 3983.7   | 0.0    | 3983.7 |
|                    | % Fixture | 81.9     | 0.0    | 81.9   |
| <b>Total</b>       | Lumens    | 4865.0   | 0.0    | 4865.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 71.8   | 1.5       |
| 10°-20°   | 186.6  | 3.8       |
| 20°-30°   | 298.9  | 6.1       |
| 30°-40°   | 528.5  | 10.9      |
| 40°-50°   | 926.0  | 19.0      |
| 50°-60°   | 1235.0 | 25.4      |
| 60°-70°   | 1149.7 | 23.6      |
| 70°-80°   | 441.2  | 9.1       |
| 80°-90°   | 27.4   | 0.6       |
| 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°    | 4865.0 | 100.0     |
| 0°-180°   | 4865.0 | 100.0     |

**Coefficient of Utilization**

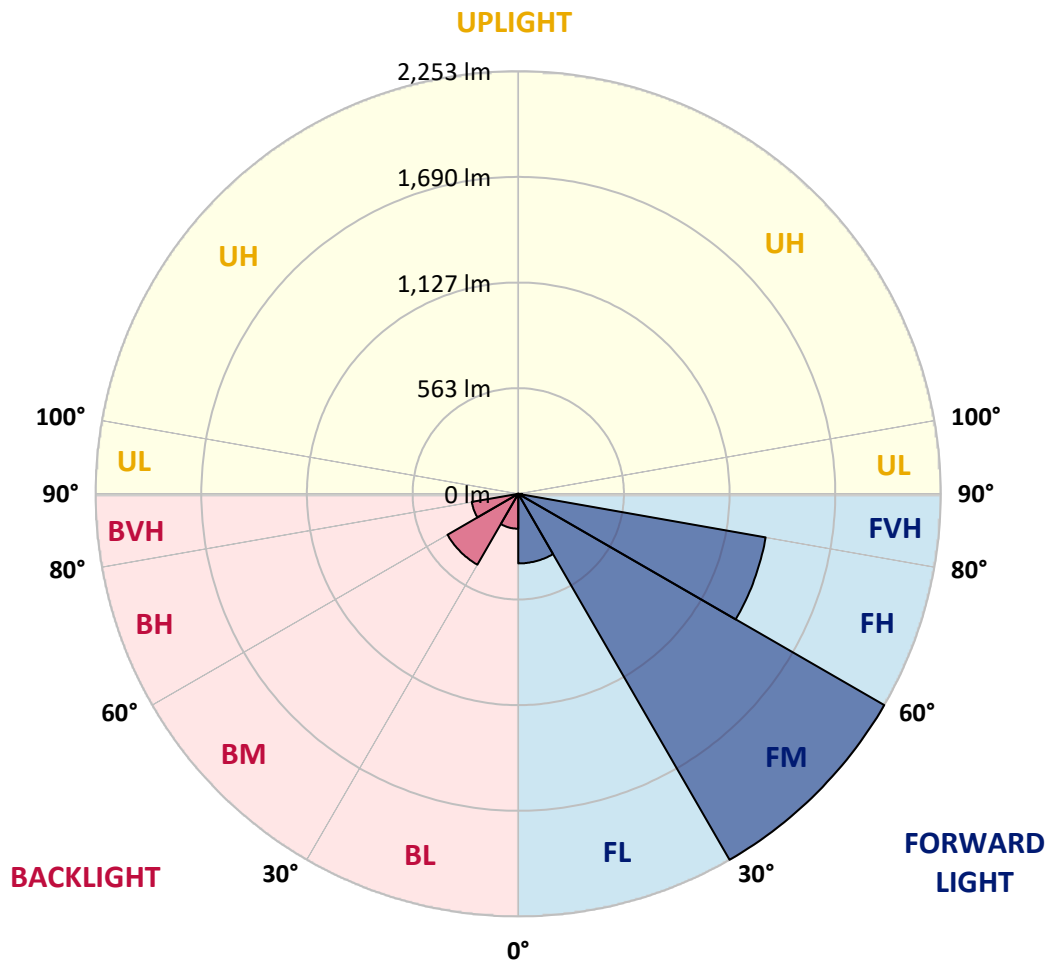


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 371.1  | 7.6       |                         |      |         |
| FM (30°-60°)   | 2253.3 | 46.3      |                         |      |         |
| FH (60°-80°)   | 1339.4 | 27.5      |                         |      | G1/1800 |
| FVH (80°-90°)  | 19.9   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 186.1  | 3.8       | B1/500                  |      |         |
| BM (30°-60°)   | 436.1  | 9.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 251.5  | 5.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 7.5    | 0.2       |                         |      | G0/10   |
| 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 Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 82°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 806.0  | 806.0  | 806.0  | 806.0  | 806.0  | 806.0  | 806.0  | 806.0  | 806.0  | 806.0  |
| 2.5°  | 851.9  | 856.8  | 854.0  | 852.6  | 850.1  | 846.6  | 843.8  | 835.0  | 825.9  | 820.0  |
| 5°    | 869.0  | 873.9  | 873.6  | 875.0  | 876.7  | 877.8  | 877.1  | 867.3  | 854.3  | 844.1  |
| 7.5°  | 854.3  | 859.9  | 864.5  | 871.5  | 883.7  | 896.7  | 903.0  | 900.9  | 887.6  | 873.6  |
| 10°   | 812.6  | 818.6  | 829.4  | 845.9  | 871.8  | 899.8  | 923.3  | 934.2  | 925.8  | 910.3  |
| 12.5° | 736.3  | 742.2  | 763.6  | 799.3  | 842.7  | 891.4  | 936.3  | 965.3  | 967.4  | 952.0  |
| 15°   | 650.4  | 656.4  | 679.2  | 724.0  | 790.2  | 868.3  | 943.3  | 998.3  | 1016.8 | 1003.5 |
| 17.5° | 597.2  | 602.5  | 619.6  | 655.7  | 724.7  | 822.1  | 940.8  | 1033.3 | 1075.7 | 1065.2 |
| 20°   | 581.1  | 585.6  | 593.7  | 618.9  | 676.4  | 774.1  | 924.7  | 1066.2 | 1139.1 | 1133.1 |
| 22.5° | 598.3  | 602.5  | 604.9  | 616.1  | 652.2  | 742.6  | 904.4  | 1099.8 | 1212.6 | 1213.3 |
| 25°   | 637.8  | 642.0  | 639.2  | 646.2  | 662.0  | 732.8  | 896.7  | 1139.4 | 1305.1 | 1312.8 |
| 27.5° | 703.0  | 703.3  | 696.7  | 696.3  | 698.8  | 747.5  | 904.7  | 1181.8 | 1421.7 | 1436.1 |
| 30°   | 833.6  | 828.4  | 802.8  | 775.1  | 762.5  | 791.6  | 927.2  | 1231.9 | 1559.4 | 1585.0 |
| 32.5° | 1035.0 | 1027.3 | 980.4  | 914.2  | 847.6  | 862.7  | 967.4  | 1289.0 | 1709.3 | 1755.5 |
| 35°   | 1253.6 | 1251.5 | 1202.5 | 1104.0 | 987.8  | 963.9  | 1032.9 | 1363.9 | 1872.9 | 1946.4 |
| 37.5° | 1456.8 | 1455.7 | 1427.7 | 1311.8 | 1170.2 | 1105.1 | 1138.0 | 1462.0 | 2048.0 | 2154.5 |
| 40°   | 1642.4 | 1645.6 | 1617.5 | 1513.9 | 1371.3 | 1286.2 | 1280.9 | 1583.2 | 2242.8 | 2381.1 |
| 42.5° | 1802.8 | 1806.3 | 1778.0 | 1701.2 | 1569.9 | 1486.5 | 1456.4 | 1731.7 | 2433.0 | 2624.6 |
| 45°   | 1911.8 | 1933.5 | 1929.3 | 1868.0 | 1773.8 | 1687.2 | 1667.3 | 1918.1 | 2649.8 | 2882.7 |
| 47.5° | 1942.6 | 1962.5 | 1994.1 | 2002.5 | 1945.0 | 1859.9 | 1883.7 | 2142.6 | 2869.0 | 3141.2 |
| 50°   | 1866.6 | 1885.1 | 1950.6 | 2037.9 | 2077.8 | 2051.5 | 2094.3 | 2383.2 | 3093.6 | 3399.0 |
| 52.5° | 1716.7 | 1735.6 | 1818.2 | 1956.2 | 2119.1 | 2201.8 | 2305.5 | 2620.4 | 3311.1 | 3643.1 |
| 55°   | 1499.8 | 1519.8 | 1625.9 | 1782.2 | 2040.3 | 2263.8 | 2481.6 | 2857.1 | 3510.4 | 3862.8 |
| 57.5° | 1204.9 | 1219.6 | 1330.0 | 1548.5 | 1842.1 | 2202.1 | 2611.6 | 3115.6 | 3698.1 | 4078.5 |
| 60°   | 785.3  | 798.3  | 926.5  | 1170.2 | 1513.5 | 1996.2 | 2637.5 | 3403.9 | 3947.5 | 4359.1 |
| 62.5° | 522.2  | 531.0  | 607.0  | 786.0  | 1065.9 | 1600.7 | 2485.8 | 3634.0 | 4313.2 | 4847.4 |
| 65°   | 358.3  | 367.1  | 443.1  | 567.8  | 688.6  | 1058.9 | 2049.8 | 3603.6 | 4644.5 | 5235.1 |
| 67.5° | 255.7  | 263.1  | 327.5  | 445.2  | 498.4  | 615.1  | 1389.5 | 3214.1 | 4596.9 | 5249.8 |
| 70°   | 183.2  | 187.4  | 240.6  | 346.8  | 396.2  | 369.5  | 772.7  | 2458.2 | 4024.9 | 4847.7 |
| 72.5° | 128.2  | 129.6  | 167.1  | 264.1  | 319.1  | 269.7  | 367.8  | 1638.9 | 3044.2 | 3805.0 |
| 75°   | 86.9   | 88.6   | 112.4  | 193.7  | 256.0  | 206.0  | 194.7  | 878.8  | 1787.1 | 2106.2 |
| 77.5° | 53.2   | 53.9   | 72.5   | 132.4  | 191.6  | 156.9  | 125.4  | 372.3  | 691.4  | 678.8  |
| 80°   | 30.1   | 30.1   | 46.2   | 82.3   | 130.6  | 101.2  | 87.9   | 158.3  | 218.9  | 192.3  |
| 82.5° | 16.8   | 17.2   | 33.6   | 51.1   | 86.5   | 59.9   | 48.3   | 73.2   | 94.6   | 83.7   |
| 85°   | 7.0    | 7.7    | 20.7   | 24.2   | 41.3   | 29.8   | 19.6   | 30.8   | 35.0   | 31.2   |
| 87.5° | 0.7    | 1.1    | 6.3    | 4.6    | 4.9    | 6.0    | 2.8    | 6.0    | 4.9    | 4.9    |
| 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°  |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 806.0  | 0°    | 806.0  | 806.0  | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 |
| 817.9  | 2.5°  | 811.2  | 806.0  | 792.7 | 777.2 | 756.9 | 747.1 | 733.8 | 724.7 | 717.0 | 717.7 |
| 838.2  | 5°    | 827.0  | 813.7  | 783.9 | 746.8 | 700.5 | 667.6 | 632.6 | 608.4 | 588.8 | 584.6 |
| 866.2  | 7.5°  | 848.7  | 827.7  | 775.5 | 708.6 | 630.5 | 571.3 | 518.4 | 484.4 | 460.3 | 452.5 |
| 900.2  | 10°   | 876.7  | 846.2  | 764.6 | 660.6 | 548.2 | 472.9 | 416.1 | 389.5 | 373.0 | 367.4 |
| 940.1  | 12.5° | 909.3  | 867.6  | 750.3 | 602.1 | 463.4 | 390.9 | 354.8 | 341.5 | 336.3 | 334.5 |
| 989.2  | 15°   | 950.3  | 894.2  | 728.6 | 532.8 | 391.6 | 340.8 | 325.4 | 323.6 | 324.3 | 323.6 |
| 1048.0 | 17.5° | 999.0  | 923.3  | 693.2 | 461.3 | 343.3 | 315.2 | 309.6 | 311.0 | 312.8 | 312.4 |
| 1113.9 | 20°   | 1052.2 | 952.0  | 648.0 | 397.9 | 310.3 | 297.0 | 293.9 | 295.3 | 296.7 | 296.0 |
| 1189.9 | 22.5° | 1112.8 | 982.9  | 597.9 | 348.5 | 288.3 | 280.2 | 276.7 | 277.1 | 277.1 | 275.7 |
| 1286.2 | 25°   | 1185.3 | 1016.8 | 545.4 | 313.5 | 271.5 | 265.2 | 260.9 | 259.5 | 257.4 | 253.2 |
| 1403.2 | 27.5° | 1271.8 | 1052.9 | 494.9 | 289.0 | 258.1 | 252.2 | 247.3 | 243.8 | 238.5 | 231.5 |
| 1543.6 | 30°   | 1369.2 | 1096.7 | 452.2 | 273.6 | 247.6 | 241.7 | 236.1 | 230.8 | 223.1 | 214.4 |
| 1705.1 | 32.5° | 1483.7 | 1143.6 | 421.0 | 263.4 | 238.2 | 231.9 | 225.2 | 218.9 | 210.5 | 201.8 |
| 1886.5 | 35°   | 1620.3 | 1200.4 | 402.8 | 256.4 | 230.8 | 222.4 | 215.1 | 208.1 | 201.8 | 194.0 |
| 2083.7 | 37.5° | 1768.5 | 1260.6 | 397.2 | 252.9 | 225.9 | 213.0 | 204.6 | 199.7 | 199.0 | 194.4 |
| 2297.1 | 40°   | 1930.7 | 1332.1 | 401.4 | 250.8 | 220.7 | 203.9 | 194.7 | 193.7 | 195.4 | 187.4 |
| 2525.1 | 42.5° | 2102.3 | 1416.8 | 408.4 | 248.3 | 213.3 | 194.7 | 186.0 | 186.0 | 184.6 | 173.4 |
| 2766.1 | 45°   | 2287.9 | 1514.6 | 415.4 | 242.4 | 204.6 | 185.6 | 179.0 | 176.5 | 170.6 | 159.7 |
| 3008.4 | 47.5° | 2475.0 | 1614.0 | 420.7 | 231.5 | 194.0 | 177.9 | 172.0 | 166.4 | 157.6 | 147.8 |
| 3246.3 | 50°   | 2652.6 | 1703.4 | 415.1 | 215.4 | 182.1 | 170.6 | 164.3 | 156.6 | 147.1 | 140.5 |
| 3471.5 | 52.5° | 2811.2 | 1780.8 | 391.2 | 196.5 | 169.5 | 162.9 | 157.3 | 149.2 | 141.5 | 134.5 |
| 3674.7 | 55°   | 2949.3 | 1843.5 | 349.2 | 178.6 | 158.3 | 156.2 | 150.6 | 140.5 | 129.9 | 124.0 |
| 3876.1 | 57.5° | 3081.7 | 1891.1 | 296.7 | 163.9 | 148.2 | 148.9 | 140.5 | 131.4 | 121.5 | 115.2 |
| 4147.5 | 60°   | 3257.8 | 1954.8 | 243.4 | 150.3 | 137.3 | 139.4 | 130.3 | 123.6 | 111.4 | 103.3 |
| 4613.0 | 62.5° | 3539.5 | 2054.0 | 193.3 | 133.5 | 124.7 | 125.4 | 121.5 | 113.5 | 98.8  | 89.3  |
| 4958.0 | 65°   | 3762.9 | 2017.5 | 152.4 | 115.2 | 110.3 | 111.4 | 111.4 | 102.6 | 86.9  | 76.0  |
| 4976.6 | 67.5° | 3737.7 | 1727.5 | 121.5 | 97.4  | 96.7  | 97.4  | 99.8  | 92.5  | 77.1  | 68.3  |
| 4597.6 | 70°   | 3443.1 | 1374.1 | 97.4  | 80.9  | 84.1  | 82.3  | 89.3  | 84.4  | 69.4  | 60.6  |
| 3564.3 | 72.5° | 2809.5 | 989.9  | 74.3  | 66.9  | 64.4  | 67.3  | 80.6  | 76.0  | 57.8  | 48.0  |
| 1887.9 | 75°   | 1641.7 | 528.2  | 55.3  | 52.9  | 46.6  | 56.0  | 71.5  | 64.8  | 44.1  | 35.4  |
| 578.6  | 77.5° | 534.5  | 184.2  | 40.6  | 38.9  | 34.7  | 45.2  | 60.9  | 54.6  | 36.1  | 28.0  |
| 169.5  | 80°   | 143.3  | 55.7   | 27.7  | 25.6  | 22.4  | 33.6  | 48.3  | 43.4  | 25.9  | 18.2  |
| 72.9   | 82.5° | 57.4   | 23.5   | 16.1  | 14.4  | 12.3  | 23.1  | 38.2  | 35.0  | 19.3  | 11.6  |
| 22.8   | 85°   | 18.6   | 7.7    | 6.0   | 4.6   | 5.6   | 14.4  | 22.8  | 23.8  | 13.7  | 6.0   |
| 3.5    | 87.5° | 2.5    | 1.1    | 1.1   | 1.4   | 1.1   | 2.5   | 7.0   | 6.7   | 3.9   | 0.7   |
| 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



| 180°  |
|-------|
| 806.0 |
| 710.7 |
| 575.1 |
| 444.8 |
| 363.2 |
| 333.5 |
| 323.3 |
| 311.7 |
| 295.6 |
| 275.0 |
| 252.5 |
| 230.8 |
| 213.7 |
| 202.1 |
| 193.3 |
| 194.0 |
| 187.7 |
| 173.4 |
| 159.4 |
| 147.5 |
| 139.4 |
| 133.8 |
| 123.3 |
| 114.5 |
| 102.3 |
| 88.6  |
| 75.0  |
| 66.9  |
| 59.5  |
| 46.9  |
| 34.3  |
| 27.0  |
| 17.9  |
| 11.6  |
| 4.6   |
| 0.0   |
| 0.0   |

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