

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: P852166

Luminaire Tested: **GLAN-SB1D-830-U-T4FT-HSS**

Issue Date: 7/11/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P852166  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB1D-830-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6618 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

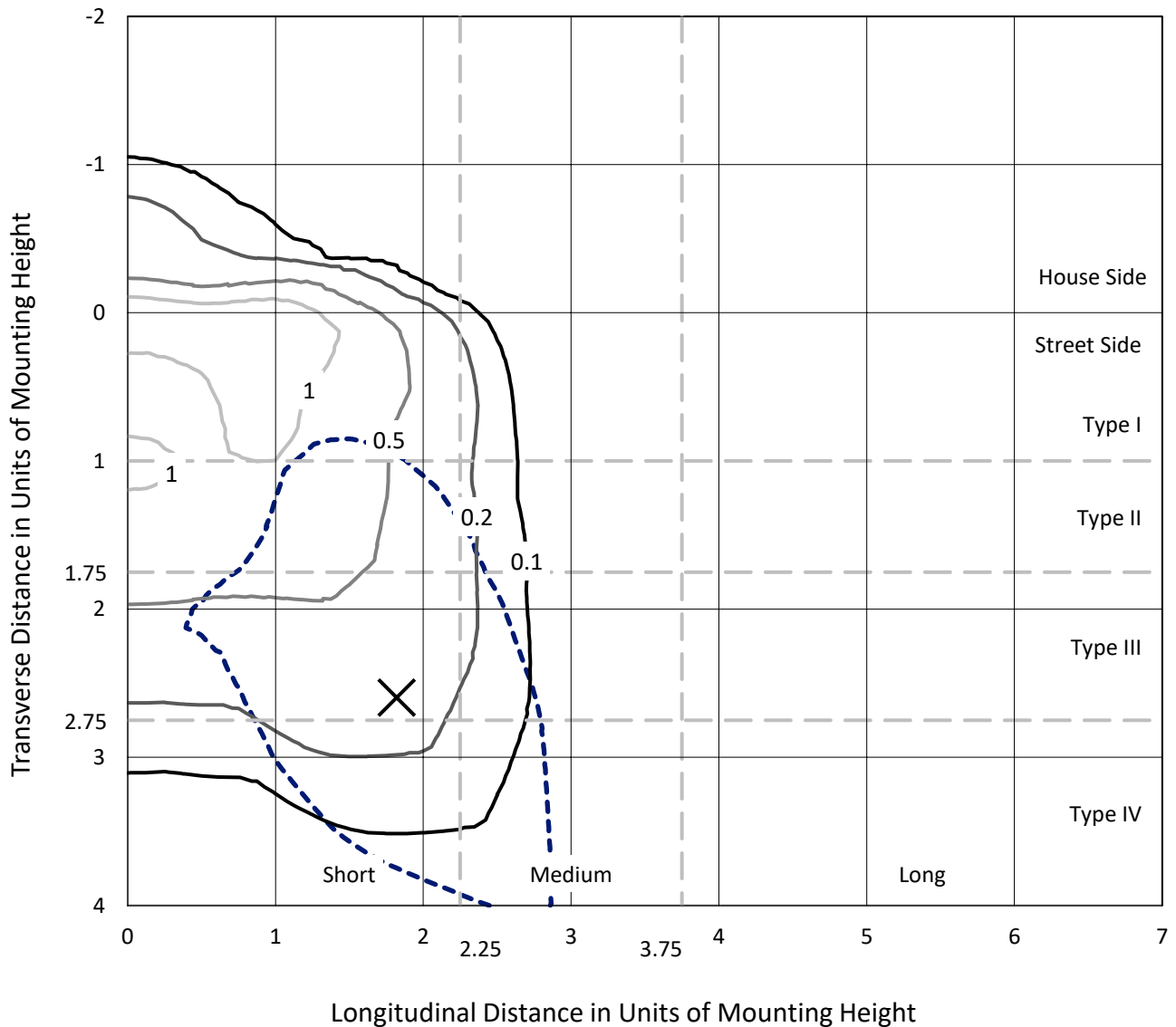
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

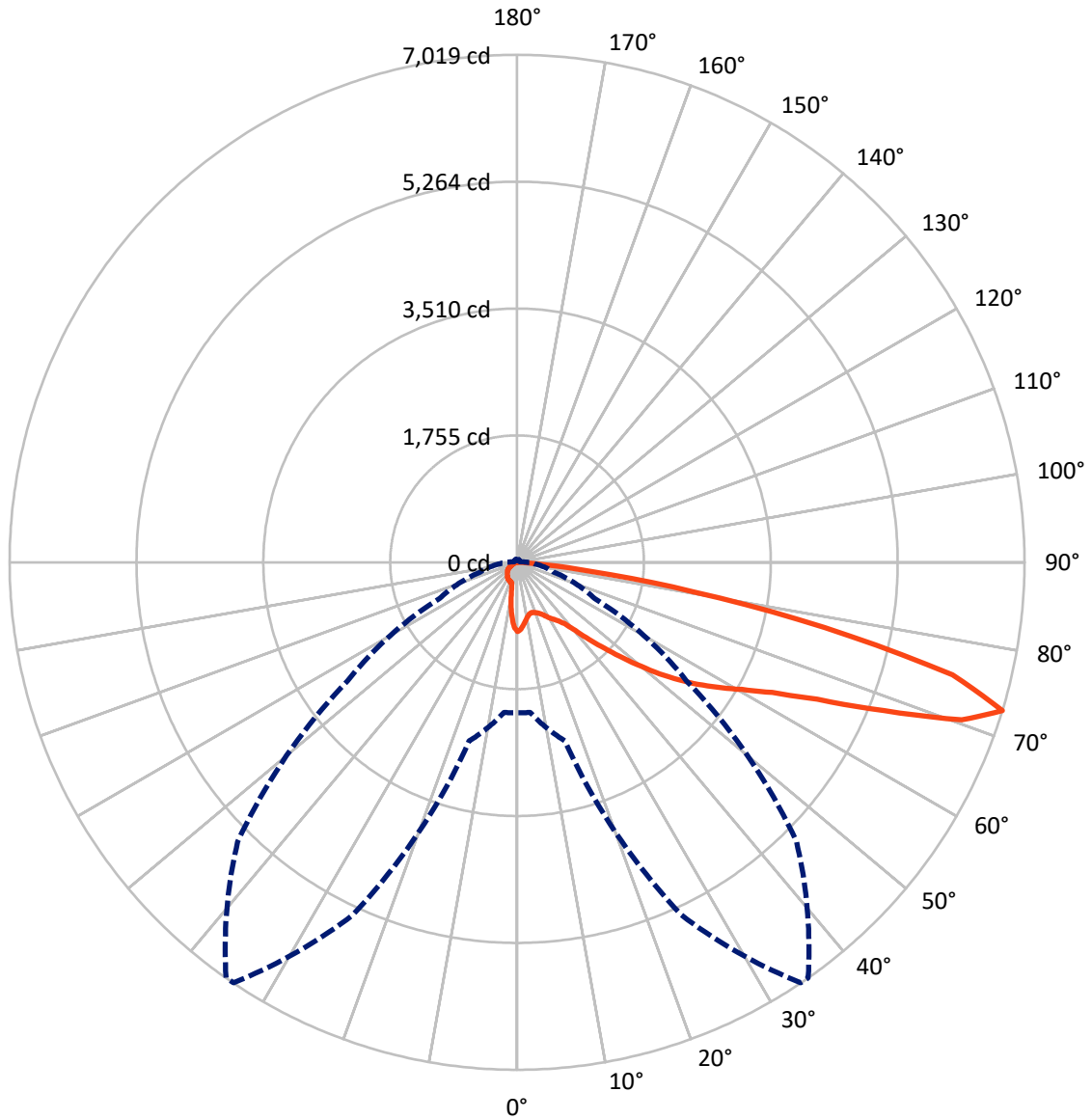
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 744.8    | 0.0    | 744.8  |
|                    | % Fixture | 11.3     | 0.0    | 11.3   |
| <b>Street Side</b> | Lumens    | 5873.2   | 0.0    | 5873.2 |
|                    | % Fixture | 88.7     | 0.0    | 88.7   |
| <b>Total</b>       | Lumens    | 6618.0   | 0.0    | 6618.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 78.8   | 1.2       |
| 10°-20°   | 184.4  | 2.8       |
| 20°-30°   | 299.5  | 4.5       |
| 30°-40°   | 499.8  | 7.6       |
| 40°-50°   | 945.6  | 14.3      |
| 50°-60°   | 1502.5 | 22.7      |
| 60°-70°   | 1858.7 | 28.1      |
| 70°-80°   | 1155.4 | 17.5      |
| 80°-90°   | 93.4   | 1.4       |
| 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°    | 6618.0 | 100.0     |
| 0°-180°   | 6618.0 | 100.0     |

**Coefficient of Utilization**



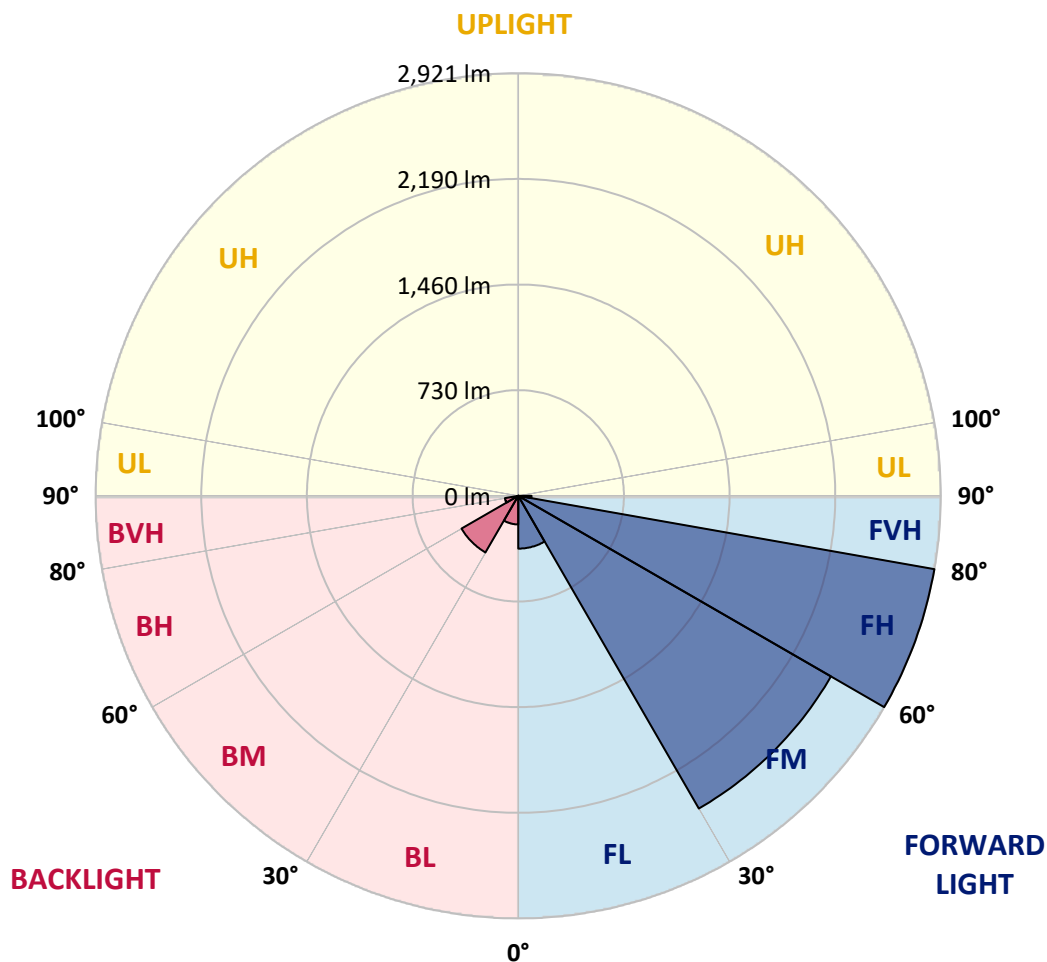
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 364.8  | 5.5       |                         |      |         |
| FM (30°-60°)   | 2495.6 | 37.7      |                         |      |         |
| FH (60°-80°)   | 2920.6 | 44.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 92.1   | 1.4       |                         |      | G1/100  |
| BL (0°-30°)    | 197.9  | 3.0       | B1/500                  |      |         |
| BM (30°-60°)   | 452.2  | 6.8       | B1/1000                 |      |         |
| BH (60°-80°)   | 93.5   | 1.4       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 1.3    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 34°    | 35°    | 45°    | 55°    | 65°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 959.2  | 959.2  | 959.2  | 959.2  | 959.2  | 959.2  | 959.2  | 959.2  | 959.2  | 959.2  |
| 2.5°  | 916.5  | 924.3  | 925.7  | 928.1  | 928.1  | 931.0  | 935.9  | 942.7  | 953.8  | 959.7  |
| 5°    | 844.7  | 850.5  | 857.8  | 863.6  | 874.8  | 876.2  | 895.2  | 913.6  | 939.3  | 958.7  |
| 7.5°  | 772.5  | 779.3  | 789.0  | 803.0  | 817.6  | 821.9  | 850.5  | 881.6  | 922.3  | 958.7  |
| 10°   | 721.6  | 722.0  | 730.8  | 744.8  | 768.1  | 773.4  | 808.4  | 852.5  | 903.4  | 952.9  |
| 12.5° | 692.9  | 696.3  | 700.2  | 710.9  | 733.2  | 736.6  | 773.9  | 825.8  | 884.5  | 949.5  |
| 15°   | 692.9  | 695.4  | 697.8  | 703.1  | 721.1  | 724.0  | 757.0  | 808.8  | 874.8  | 950.9  |
| 17.5° | 700.2  | 704.1  | 702.2  | 708.5  | 727.4  | 729.3  | 758.4  | 804.0  | 874.3  | 960.1  |
| 20°   | 717.7  | 720.6  | 716.7  | 720.6  | 739.5  | 743.4  | 773.4  | 813.2  | 882.6  | 976.1  |
| 22.5° | 745.3  | 746.8  | 737.6  | 740.5  | 759.9  | 764.7  | 799.6  | 839.4  | 902.4  | 1001.8 |
| 25°   | 780.2  | 783.1  | 769.1  | 772.5  | 790.9  | 796.7  | 837.0  | 878.7  | 934.0  | 1037.2 |
| 27.5° | 820.5  | 821.9  | 809.8  | 809.3  | 833.1  | 841.3  | 882.1  | 927.2  | 976.1  | 1081.9 |
| 30°   | 866.6  | 870.9  | 859.3  | 857.3  | 887.4  | 894.2  | 934.4  | 986.8  | 1038.2 | 1148.8 |
| 32.5° | 902.9  | 906.3  | 899.5  | 904.4  | 934.9  | 940.3  | 998.0  | 1071.2 | 1135.7 | 1243.8 |
| 35°   | 955.3  | 957.2  | 941.7  | 950.4  | 985.4  | 998.9  | 1084.8 | 1189.5 | 1258.4 | 1363.1 |
| 37.5° | 1144.9 | 1144.9 | 1078.9 | 1035.8 | 1069.2 | 1081.4 | 1203.6 | 1338.4 | 1409.7 | 1523.1 |
| 40°   | 1407.2 | 1402.9 | 1306.4 | 1218.1 | 1213.8 | 1237.5 | 1372.8 | 1526.0 | 1605.1 | 1715.2 |
| 42.5° | 1687.0 | 1680.2 | 1548.8 | 1461.5 | 1447.0 | 1455.2 | 1568.2 | 1757.3 | 1837.8 | 1949.4 |
| 45°   | 1935.3 | 1933.4 | 1813.1 | 1695.8 | 1669.6 | 1695.8 | 1812.1 | 2027.9 | 2085.6 | 2203.0 |
| 47.5° | 2143.3 | 2143.3 | 2055.6 | 1979.0 | 1965.4 | 1980.9 | 2142.4 | 2328.1 | 2322.8 | 2473.1 |
| 50°   | 2382.9 | 2381.0 | 2297.5 | 2264.6 | 2278.6 | 2300.5 | 2522.5 | 2644.3 | 2568.1 | 2738.3 |
| 52.5° | 2550.7 | 2562.3 | 2533.7 | 2528.4 | 2600.1 | 2638.0 | 2908.5 | 2953.6 | 2787.8 | 2990.0 |
| 55°   | 2683.5 | 2697.1 | 2730.1 | 2767.4 | 2905.6 | 2955.1 | 3282.4 | 3247.0 | 2971.6 | 3208.2 |
| 57.5° | 2871.7 | 2852.3 | 2903.2 | 2976.9 | 3200.5 | 3260.1 | 3644.7 | 3523.9 | 3119.5 | 3385.2 |
| 60°   | 3100.1 | 3103.0 | 3111.7 | 3204.8 | 3494.8 | 3571.4 | 4001.6 | 3785.8 | 3214.5 | 3493.8 |
| 62.5° | 3374.6 | 3378.9 | 3396.9 | 3539.9 | 3890.0 | 3962.3 | 4381.7 | 4000.1 | 3258.2 | 3463.3 |
| 65°   | 3355.6 | 3374.1 | 3574.3 | 4063.6 | 4490.8 | 4562.1 | 4825.4 | 4150.4 | 3192.2 | 3184.0 |
| 67.5° | 3056.9 | 3087.0 | 3422.1 | 4689.2 | 5396.7 | 5476.2 | 5361.8 | 4180.0 | 2907.6 | 2476.0 |
| 70°   | 2665.1 | 2675.8 | 3078.8 | 5251.7 | 6445.5 | 6526.0 | 5841.8 | 3854.6 | 2206.4 | 1381.0 |
| 72.5° | 2081.3 | 2083.7 | 2556.5 | 5382.1 | 7014.8 | 7019.2 | 5465.0 | 2861.5 | 1186.6 | 530.5  |
| 75°   | 1486.8 | 1472.2 | 1712.2 | 4364.8 | 6171.6 | 6221.0 | 4097.1 | 1342.3 | 453.4  | 250.7  |
| 77.5° | 797.2  | 813.2  | 968.9  | 2588.5 | 4263.4 | 4347.8 | 2235.5 | 387.0  | 230.8  | 170.7  |
| 80°   | 246.3  | 259.9  | 397.1  | 1185.1 | 2414.9 | 2465.8 | 828.7  | 172.1  | 161.0  | 121.7  |
| 82.5° | 77.6   | 80.5   | 185.2  | 498.0  | 1002.3 | 1025.6 | 240.0  | 97.5   | 110.1  | 80.5   |
| 85°   | 22.3   | 22.8   | 82.4   | 185.7  | 247.8  | 252.6  | 67.4   | 37.8   | 63.0   | 49.9   |
| 87.5° | 2.4    | 7.8    | 31.0   | 31.0   | 21.8   | 21.3   | 7.3    | 8.2    | 17.9   | 6.3    |
| 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°  |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 959.2  | 0°    | 959.2  | 959.2  | 959.2 | 959.2 | 959.2 | 959.2 | 959.2 | 959.2 | 959.2 | 959.2 |
| 963.5  | 2.5°  | 961.1  | 961.6  | 955.3 | 944.6 | 933.0 | 923.3 | 911.2 | 901.5 | 894.7 | 892.7 |
| 972.3  | 5°    | 967.9  | 964.5  | 946.6 | 914.1 | 875.3 | 841.8 | 804.5 | 774.9 | 755.5 | 747.3 |
| 981.5  | 7.5°  | 978.1  | 968.4  | 929.1 | 865.1 | 790.9 | 725.0 | 658.0 | 606.1 | 573.2 | 556.7 |
| 990.2  | 10°   | 986.8  | 967.4  | 900.0 | 794.3 | 680.8 | 580.9 | 490.7 | 428.2 | 393.3 | 376.8 |
| 1000.4 | 12.5° | 995.1  | 966.9  | 862.2 | 710.4 | 556.7 | 434.5 | 350.6 | 319.6 | 309.9 | 306.5 |
| 1016.9 | 15°   | 1010.6 | 968.4  | 814.7 | 614.4 | 433.0 | 328.3 | 297.7 | 297.3 | 299.2 | 298.2 |
| 1042.1 | 17.5° | 1031.9 | 969.8  | 760.8 | 512.6 | 334.1 | 289.5 | 288.0 | 292.4 | 295.3 | 293.9 |
| 1073.6 | 20°   | 1059.5 | 975.7  | 703.6 | 411.7 | 287.1 | 279.8 | 283.2 | 287.1 | 289.5 | 287.1 |
| 1115.8 | 22.5° | 1098.3 | 985.8  | 641.1 | 330.7 | 272.0 | 274.0 | 276.9 | 281.3 | 283.7 | 280.3 |
| 1169.6 | 25°   | 1145.9 | 1001.8 | 579.5 | 287.6 | 264.8 | 267.2 | 271.6 | 276.4 | 279.3 | 275.9 |
| 1237.5 | 27.5° | 1207.4 | 1027.5 | 522.7 | 277.9 | 257.5 | 258.9 | 265.3 | 272.5 | 276.4 | 272.0 |
| 1334.0 | 30°   | 1296.7 | 1069.7 | 473.8 | 282.2 | 253.1 | 249.7 | 258.5 | 268.6 | 273.0 | 269.1 |
| 1465.4 | 32.5° | 1415.0 | 1129.4 | 443.7 | 289.0 | 251.2 | 239.1 | 247.3 | 260.4 | 267.7 | 265.3 |
| 1637.1 | 35°   | 1570.2 | 1220.1 | 432.1 | 296.8 | 249.7 | 227.9 | 233.7 | 247.8 | 260.4 | 262.8 |
| 1853.4 | 37.5° | 1758.3 | 1346.1 | 435.5 | 300.2 | 245.4 | 218.7 | 221.6 | 233.7 | 250.2 | 258.0 |
| 2096.8 | 40°   | 1972.2 | 1493.1 | 454.9 | 296.8 | 240.5 | 210.9 | 211.4 | 220.6 | 235.2 | 246.8 |
| 2358.6 | 42.5° | 2192.8 | 1664.7 | 490.7 | 284.2 | 236.2 | 204.2 | 202.7 | 209.0 | 218.7 | 226.9 |
| 2620.0 | 45°   | 2402.8 | 1841.2 | 526.1 | 266.7 | 230.8 | 197.4 | 194.0 | 196.4 | 198.3 | 201.7 |
| 2874.6 | 47.5° | 2586.1 | 1965.4 | 516.0 | 250.7 | 223.5 | 189.6 | 183.8 | 182.8 | 177.0 | 176.5 |
| 3102.0 | 50°   | 2712.6 | 1992.5 | 458.2 | 234.7 | 212.9 | 180.9 | 171.7 | 165.8 | 155.7 | 150.8 |
| 3272.2 | 52.5° | 2752.9 | 1885.4 | 374.4 | 218.7 | 195.4 | 169.2 | 156.1 | 146.9 | 134.3 | 130.0 |
| 3370.2 | 55°   | 2699.5 | 1675.4 | 299.2 | 199.3 | 171.2 | 153.7 | 139.2 | 127.0 | 116.9 | 111.5 |
| 3380.9 | 57.5° | 2569.1 | 1408.2 | 236.6 | 176.5 | 145.5 | 136.3 | 121.7 | 109.6 | 100.9 | 95.5  |
| 3262.5 | 60°   | 2352.8 | 1118.2 | 187.2 | 149.4 | 124.1 | 117.4 | 102.3 | 94.6  | 86.8  | 80.5  |
| 2957.0 | 62.5° | 2024.5 | 798.2  | 146.9 | 118.3 | 103.8 | 96.0  | 87.3  | 81.5  | 72.3  | 63.5  |
| 2407.6 | 65°   | 1579.9 | 488.3  | 113.5 | 86.8  | 83.4  | 79.5  | 74.2  | 68.9  | 57.7  | 49.0  |
| 1570.7 | 67.5° | 996.5  | 231.3  | 81.0  | 65.5  | 65.9  | 64.0  | 61.6  | 57.2  | 49.0  | 41.2  |
| 703.6  | 70°   | 438.9  | 112.0  | 53.3  | 49.9  | 49.0  | 49.0  | 50.9  | 49.5  | 41.7  | 34.4  |
| 244.4  | 72.5° | 149.4  | 60.1   | 39.8  | 37.8  | 35.4  | 34.9  | 42.7  | 41.2  | 33.5  | 26.7  |
| 121.7  | 75°   | 78.1   | 40.2   | 29.1  | 27.2  | 21.3  | 25.7  | 33.9  | 32.0  | 23.8  | 17.5  |
| 80.5   | 77.5° | 50.9   | 28.6   | 19.9  | 17.5  | 12.1  | 17.0  | 25.2  | 22.3  | 14.1  | 8.7   |
| 52.9   | 80°   | 32.0   | 18.9   | 11.6  | 8.2   | 5.8   | 9.2   | 13.6  | 9.7   | 5.3   | 1.9   |
| 31.0   | 82.5° | 17.0   | 9.7    | 4.4   | 2.9   | 2.4   | 2.9   | 3.4   | 2.4   | 1.0   | 0.0   |
| 16.0   | 85°   | 6.8    | 3.4    | 1.5   | 1.0   | 0.5   | 0.0   | 1.0   | 0.5   | 0.0   | 0.0   |
| 2.9    | 87.5° | 2.4    | 0.5    | 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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|       |
|-------|
| 180°  |
| 959.2 |
| 896.1 |
| 750.2 |
| 559.1 |
| 377.3 |
| 305.5 |
| 297.7 |
| 293.4 |
| 286.6 |
| 279.8 |
| 275.4 |
| 272.0 |
| 268.6 |
| 265.3 |
| 262.8 |
| 259.9 |
| 250.7 |
| 230.3 |
| 203.7 |
| 176.0 |
| 151.3 |
| 129.5 |
| 111.5 |
| 94.6  |
| 79.0  |
| 62.1  |
| 47.5  |
| 40.2  |
| 33.0  |
| 25.2  |
| 16.0  |
| 7.8   |
| 1.5   |
| 0.0   |
| 0.0   |
| 0.0   |
| 0.0   |

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