

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: P848365

Luminaire Tested: **GLAN-SB4D-927-U-T2-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848365
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-SB4D-927-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19178 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

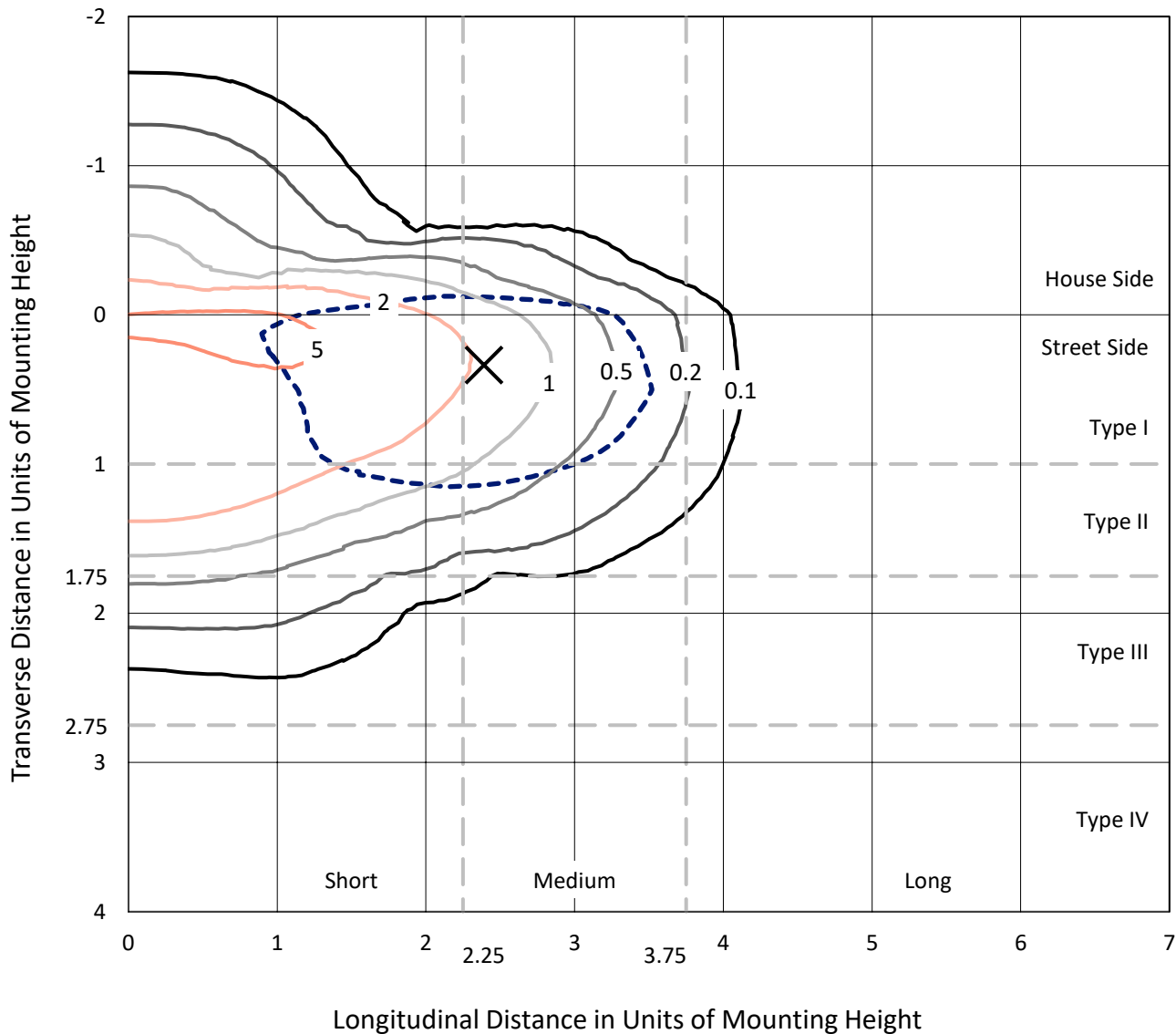
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

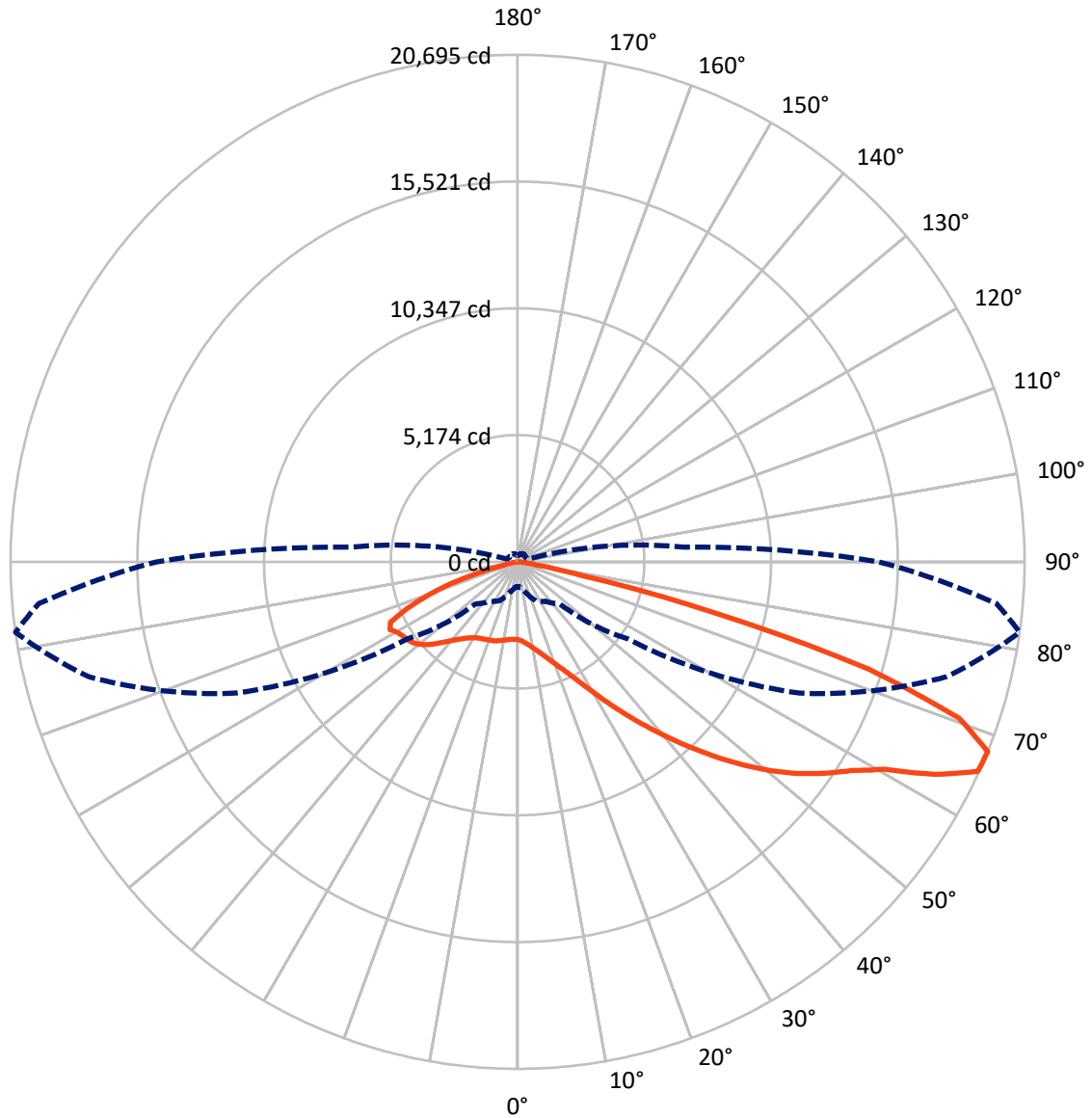
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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 |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3473.9 | 0.0 | 3473.9 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 15704.1 | 0.0 | 15704.1 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 19178.0 | 0.0 | 19178.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 283.1 | 1.5 |
| 10°-20° | 735.6 | 3.8 |
| 20°-30° | 1178.1 | 6.1 |
| 30°-40° | 2083.3 | 10.9 |
| 40°-50° | 3650.1 | 19.0 |
| 50°-60° | 4868.3 | 25.4 |
| 60°-70° | 4532.1 | 23.6 |
| 70°-80° | 1739.4 | 9.1 |
| 80°-90° | 108.0 | 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° | 19178.0 | 100.0 |
| 0°-180° | 19178.0 | 100.0 |

Coefficient of Utilization

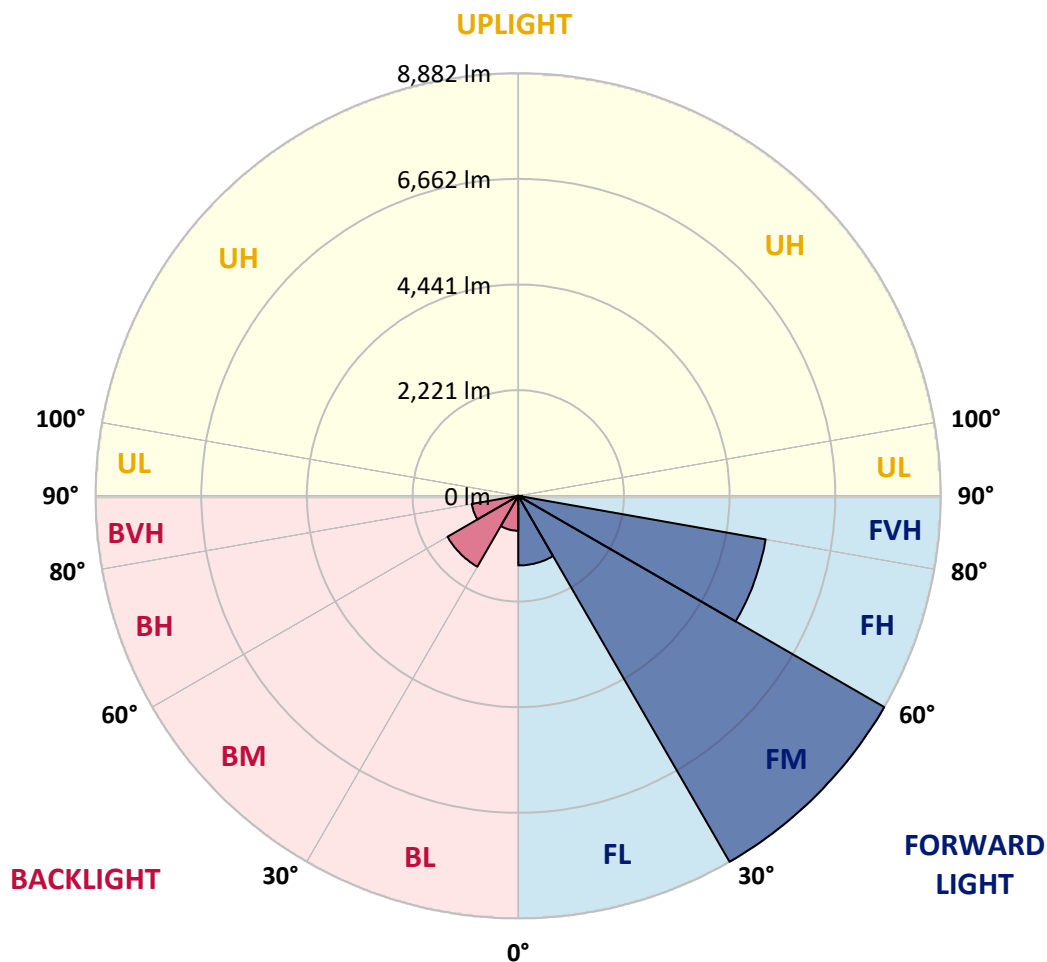


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1463.1 | 7.6 | | | |
| FM (30°-60°) | 8882.5 | 46.3 | | | |
| FH (60°-80°) | 5280.0 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 78.5 | 0.4 | | | G1/100 |
| BL (0°-30°) | 733.7 | 3.8 | B2/1000 | | |
| BM (30°-60°) | 1719.2 | 9.0 | B2/2500 | | |
| BH (60°-80°) | 991.5 | 5.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 29.5 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 3177.1 | 3177.1 | 3177.1 | 3177.1 | 3177.1 | 3177.1 | 3177.1 | 3177.1 | 3177.1 | 3177.1 |
| 2.5° | 3358.0 | 3377.4 | 3366.3 | 3360.8 | 3351.1 | 3337.3 | 3326.3 | 3291.7 | 3255.8 | 3232.4 |
| 5° | 3425.7 | 3445.0 | 3443.6 | 3449.2 | 3456.1 | 3460.2 | 3457.4 | 3418.8 | 3367.7 | 3327.6 |
| 7.5° | 3367.7 | 3389.8 | 3407.7 | 3435.3 | 3483.7 | 3534.8 | 3559.6 | 3551.3 | 3498.9 | 3443.6 |
| 10° | 3203.4 | 3226.9 | 3269.7 | 3334.6 | 3436.7 | 3547.2 | 3639.7 | 3682.5 | 3649.4 | 3588.6 |
| 12.5° | 2902.4 | 2925.8 | 3010.1 | 3150.9 | 3322.1 | 3514.1 | 3690.8 | 3805.4 | 3813.7 | 3752.9 |
| 15° | 2564.1 | 2587.6 | 2677.3 | 2854.0 | 3115.0 | 3422.9 | 3718.4 | 3935.2 | 4008.4 | 3955.9 |
| 17.5° | 2354.2 | 2374.9 | 2442.6 | 2584.8 | 2856.8 | 3240.7 | 3708.7 | 4073.3 | 4240.3 | 4198.9 |
| 20° | 2290.7 | 2308.6 | 2340.4 | 2439.8 | 2666.3 | 3051.5 | 3645.2 | 4203.1 | 4490.3 | 4466.8 |
| 22.5° | 2358.4 | 2374.9 | 2384.6 | 2428.8 | 2571.0 | 2927.2 | 3565.1 | 4335.6 | 4780.2 | 4783.0 |
| 25° | 2514.4 | 2530.9 | 2519.9 | 2547.5 | 2609.7 | 2888.6 | 3534.8 | 4491.6 | 5144.7 | 5175.1 |
| 27.5° | 2771.2 | 2772.6 | 2746.3 | 2745.0 | 2754.6 | 2946.6 | 3566.5 | 4658.7 | 5604.5 | 5661.1 |
| 30° | 3286.2 | 3265.5 | 3164.7 | 3055.6 | 3005.9 | 3120.5 | 3654.9 | 4856.2 | 6147.2 | 6248.0 |
| 32.5° | 4080.2 | 4049.8 | 3864.8 | 3603.8 | 3341.5 | 3400.8 | 3813.7 | 5081.2 | 6738.1 | 6920.4 |
| 35° | 4941.8 | 4933.5 | 4740.2 | 4352.2 | 3893.8 | 3799.9 | 4071.9 | 5376.7 | 7383.0 | 7672.9 |
| 37.5° | 5742.6 | 5738.5 | 5628.0 | 5171.0 | 4613.1 | 4356.3 | 4486.1 | 5763.3 | 8073.3 | 8493.1 |
| 40° | 6474.4 | 6486.8 | 6376.4 | 5967.7 | 5405.7 | 5070.2 | 5049.5 | 6241.1 | 8841.1 | 9386.5 |
| 42.5° | 7106.8 | 7120.6 | 7008.8 | 6706.4 | 6188.6 | 5860.0 | 5741.2 | 6826.5 | 9590.8 | 10346.1 |
| 45° | 7536.2 | 7621.8 | 7605.3 | 7363.6 | 6992.2 | 6651.2 | 6572.5 | 7561.1 | 10445.5 | 11363.7 |
| 47.5° | 7657.7 | 7736.4 | 7860.7 | 7893.8 | 7667.4 | 7331.9 | 7425.8 | 8446.2 | 11309.9 | 12382.7 |
| 50° | 7358.1 | 7431.3 | 7689.5 | 8033.3 | 8190.7 | 8087.2 | 8255.6 | 9394.7 | 12194.9 | 13399.0 |
| 52.5° | 6767.1 | 6841.7 | 7167.6 | 7711.6 | 8353.6 | 8679.5 | 9088.2 | 10329.5 | 13052.4 | 14361.4 |
| 55° | 5912.4 | 5991.1 | 6409.5 | 7025.3 | 8043.0 | 8923.9 | 9782.7 | 11262.9 | 13838.1 | 15227.1 |
| 57.5° | 4749.8 | 4807.8 | 5242.8 | 6104.4 | 7261.5 | 8680.9 | 10295.0 | 12281.9 | 14578.1 | 16077.7 |
| 60° | 3095.7 | 3146.8 | 3652.1 | 4613.1 | 5966.3 | 7869.0 | 10397.2 | 13418.3 | 15561.2 | 17183.6 |
| 62.5° | 2058.7 | 2093.2 | 2392.9 | 3098.4 | 4201.7 | 6310.1 | 9799.3 | 14325.5 | 17002.8 | 19108.4 |
| 65° | 1412.5 | 1447.0 | 1746.7 | 2238.2 | 2714.6 | 4174.1 | 8080.3 | 14205.3 | 18309.0 | 20636.9 |
| 67.5° | 1008.0 | 1037.0 | 1291.0 | 1755.0 | 1964.8 | 2424.6 | 5477.5 | 12669.9 | 18121.2 | 20694.9 |
| 70° | 722.1 | 738.7 | 948.6 | 1367.0 | 1561.6 | 1456.7 | 3046.0 | 9690.2 | 15866.4 | 19109.8 |
| 72.5° | 505.4 | 510.9 | 658.6 | 1041.1 | 1257.9 | 1063.2 | 1449.8 | 6460.6 | 12000.2 | 14999.3 |
| 75° | 342.4 | 349.3 | 443.2 | 763.6 | 1009.3 | 811.9 | 767.7 | 3464.3 | 7044.7 | 8302.6 |
| 77.5° | 209.9 | 212.6 | 285.8 | 521.9 | 755.3 | 618.6 | 494.3 | 1467.8 | 2725.6 | 2675.9 |
| 80° | 118.7 | 118.7 | 182.3 | 324.5 | 515.0 | 399.0 | 346.6 | 624.1 | 863.0 | 758.0 |
| 82.5° | 66.3 | 67.7 | 132.6 | 201.6 | 341.0 | 236.1 | 190.5 | 288.6 | 372.8 | 330.0 |
| 85° | 27.6 | 30.4 | 81.5 | 95.3 | 162.9 | 117.4 | 77.3 | 121.5 | 138.1 | 122.9 |
| 87.5° | 2.8 | 4.1 | 24.9 | 17.9 | 19.3 | 23.5 | 11.0 | 23.5 | 19.3 | 19.3 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3177.1 | 0° | 3177.1 | 3177.1 | 3177.1 | 3177.1 | 3177.1 | 3177.1 | 3177.1 | 3177.1 | 3177.1 | 3177.1 |
| 3224.1 | 2.5° | 3197.9 | 3177.1 | 3124.7 | 3063.9 | 2983.8 | 2945.2 | 2892.7 | 2856.8 | 2826.4 | 2829.2 |
| 3304.2 | 5° | 3260.0 | 3207.5 | 3090.2 | 2943.8 | 2761.5 | 2631.7 | 2493.7 | 2398.4 | 2321.1 | 2304.5 |
| 3414.6 | 7.5° | 3345.6 | 3262.8 | 3057.0 | 2793.3 | 2485.4 | 2252.0 | 2043.5 | 1909.6 | 1814.3 | 1784.0 |
| 3548.6 | 10° | 3456.1 | 3335.9 | 3014.2 | 2604.1 | 2160.9 | 1864.0 | 1640.4 | 1535.4 | 1470.5 | 1448.4 |
| 3706.0 | 12.5° | 3584.5 | 3420.2 | 2957.6 | 2373.5 | 1826.8 | 1540.9 | 1398.7 | 1346.2 | 1325.5 | 1318.6 |
| 3899.3 | 15° | 3746.0 | 3525.1 | 2872.0 | 2100.1 | 1543.7 | 1343.5 | 1282.7 | 1275.8 | 1278.6 | 1275.8 |
| 4131.3 | 17.5° | 3937.9 | 3639.7 | 2732.5 | 1818.5 | 1353.2 | 1242.7 | 1220.6 | 1226.1 | 1233.0 | 1231.6 |
| 4390.8 | 20° | 4147.8 | 3752.9 | 2554.4 | 1568.6 | 1223.4 | 1170.9 | 1158.5 | 1164.0 | 1169.5 | 1166.7 |
| 4690.5 | 22.5° | 4386.7 | 3874.4 | 2357.0 | 1373.9 | 1136.4 | 1104.6 | 1090.8 | 1092.2 | 1092.2 | 1086.7 |
| 5070.2 | 25° | 4672.5 | 4008.4 | 2149.9 | 1235.8 | 1070.1 | 1045.2 | 1028.7 | 1023.1 | 1014.9 | 998.3 |
| 5531.4 | 27.5° | 5013.6 | 4150.6 | 1951.0 | 1139.1 | 1017.6 | 994.2 | 974.8 | 961.0 | 940.3 | 912.7 |
| 6085.0 | 30° | 5397.4 | 4323.2 | 1782.6 | 1078.4 | 976.2 | 952.7 | 930.6 | 909.9 | 879.5 | 845.0 |
| 6721.6 | 32.5° | 5848.9 | 4508.2 | 1659.7 | 1038.3 | 938.9 | 914.1 | 887.8 | 863.0 | 829.8 | 795.3 |
| 7436.8 | 35° | 6387.4 | 4731.9 | 1587.9 | 1010.7 | 909.9 | 876.8 | 847.8 | 820.2 | 795.3 | 764.9 |
| 8214.2 | 37.5° | 6971.5 | 4969.4 | 1565.8 | 996.9 | 890.6 | 839.5 | 806.4 | 787.0 | 784.3 | 766.3 |
| 9055.1 | 40° | 7610.8 | 5251.1 | 1582.4 | 988.6 | 869.9 | 803.6 | 767.7 | 763.6 | 770.5 | 738.7 |
| 9954.0 | 42.5° | 8287.4 | 5585.2 | 1610.0 | 979.0 | 840.9 | 767.7 | 733.2 | 733.2 | 727.7 | 683.5 |
| 10903.9 | 45° | 9019.2 | 5970.4 | 1637.6 | 955.5 | 806.4 | 731.8 | 705.6 | 695.9 | 672.4 | 629.6 |
| 11859.4 | 47.5° | 9756.5 | 6362.6 | 1658.3 | 912.7 | 764.9 | 701.4 | 678.0 | 655.9 | 621.3 | 582.7 |
| 12797.0 | 50° | 10456.6 | 6714.7 | 1636.2 | 849.2 | 718.0 | 672.4 | 647.6 | 617.2 | 579.9 | 553.7 |
| 13684.8 | 52.5° | 11082.0 | 7019.8 | 1542.3 | 774.6 | 668.3 | 642.1 | 620.0 | 588.2 | 557.8 | 530.2 |
| 14485.6 | 55° | 11626.1 | 7267.0 | 1376.6 | 704.2 | 624.1 | 615.8 | 593.7 | 553.7 | 512.3 | 488.8 |
| 15279.6 | 57.5° | 12148.0 | 7454.8 | 1169.5 | 646.2 | 584.1 | 586.8 | 553.7 | 517.8 | 479.1 | 454.3 |
| 16349.7 | 60° | 12842.5 | 7706.1 | 959.6 | 592.3 | 541.3 | 549.5 | 513.6 | 487.4 | 439.1 | 407.3 |
| 18184.7 | 62.5° | 13952.7 | 8096.8 | 762.2 | 526.1 | 491.6 | 494.3 | 479.1 | 447.4 | 389.4 | 352.1 |
| 19544.8 | 65° | 14833.6 | 7953.2 | 600.6 | 454.3 | 434.9 | 439.1 | 439.1 | 404.6 | 342.4 | 299.6 |
| 19617.9 | 67.5° | 14734.2 | 6809.9 | 479.1 | 383.9 | 381.1 | 383.9 | 393.5 | 364.5 | 303.8 | 269.2 |
| 18124.0 | 70° | 13572.9 | 5416.8 | 383.9 | 319.0 | 331.4 | 324.5 | 352.1 | 332.8 | 273.4 | 238.9 |
| 14050.7 | 72.5° | 11075.1 | 3902.0 | 292.7 | 263.7 | 254.1 | 265.1 | 317.6 | 299.6 | 227.8 | 189.2 |
| 7442.3 | 75° | 6471.7 | 2082.2 | 218.2 | 208.5 | 183.6 | 220.9 | 281.7 | 255.4 | 174.0 | 139.5 |
| 2281.0 | 77.5° | 2107.1 | 726.3 | 160.2 | 153.3 | 136.7 | 178.1 | 240.3 | 215.4 | 142.2 | 110.5 |
| 668.3 | 80° | 564.7 | 219.5 | 109.1 | 100.8 | 88.4 | 132.6 | 190.5 | 171.2 | 102.2 | 71.8 |
| 287.2 | 82.5° | 226.4 | 92.5 | 63.5 | 56.6 | 48.3 | 91.1 | 150.5 | 138.1 | 75.9 | 45.6 |
| 89.7 | 85° | 73.2 | 30.4 | 23.5 | 17.9 | 22.1 | 56.6 | 89.7 | 93.9 | 53.8 | 23.5 |
| 13.8 | 87.5° | 9.7 | 4.1 | 4.1 | 5.5 | 4.1 | 9.7 | 27.6 | 26.2 | 15.2 | 2.8 |
| 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° |
|--------|
| 3177.1 |
| 2801.6 |
| 2267.2 |
| 1753.6 |
| 1431.9 |
| 1314.5 |
| 1274.4 |
| 1228.9 |
| 1165.4 |
| 1083.9 |
| 995.5 |
| 909.9 |
| 842.3 |
| 796.7 |
| 762.2 |
| 764.9 |
| 740.1 |
| 683.5 |
| 628.2 |
| 581.3 |
| 549.5 |
| 527.5 |
| 486.0 |
| 451.5 |
| 403.2 |
| 349.3 |
| 295.5 |
| 263.7 |
| 234.7 |
| 185.0 |
| 135.3 |
| 106.3 |
| 70.4 |
| 45.6 |
| 17.9 |
| 0.0 |
| 0.0 |

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