

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: P850467

Luminaire Tested: **GLAN-SB8A-727-U-T3-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850467
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB8A-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25299 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

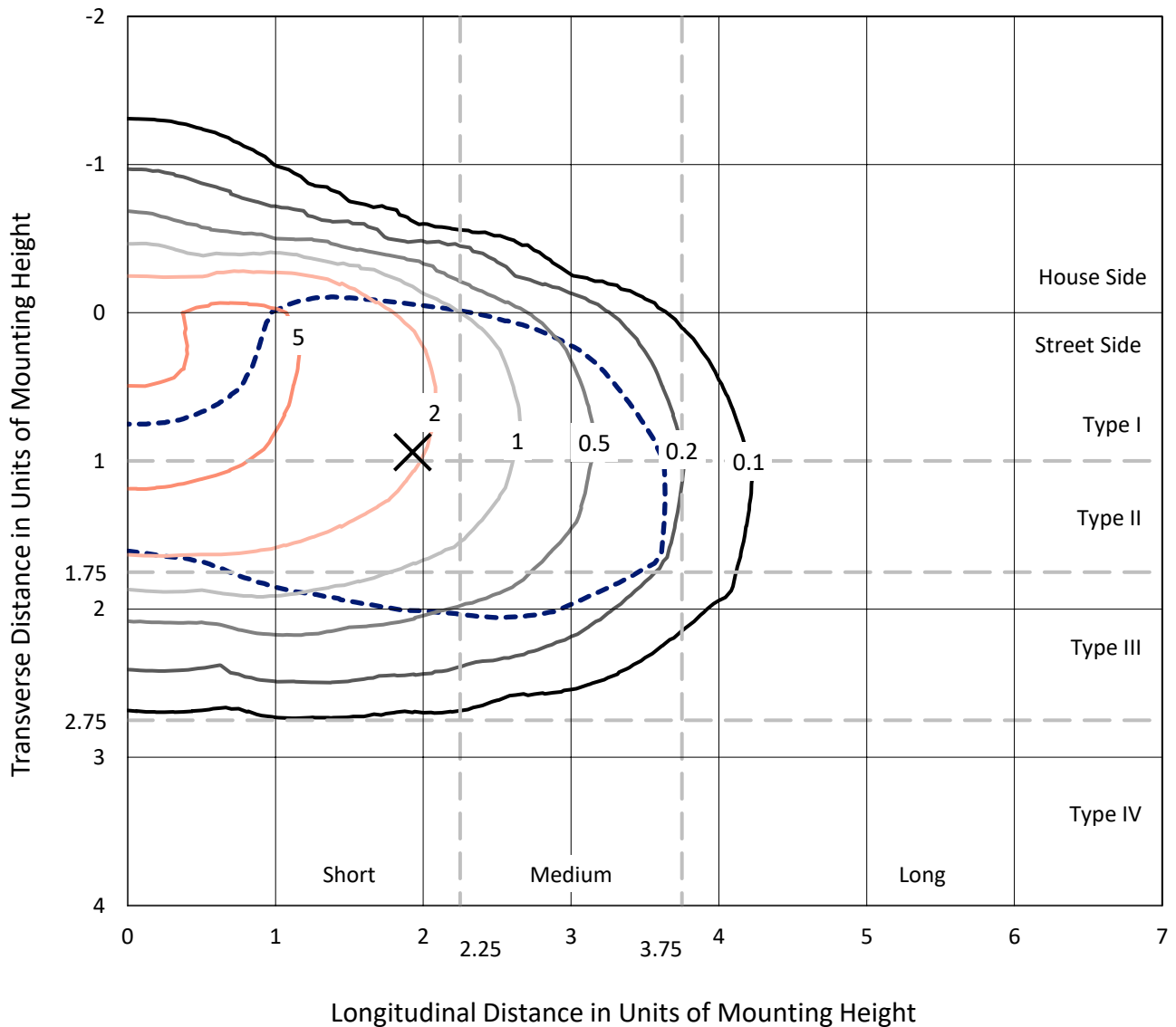
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

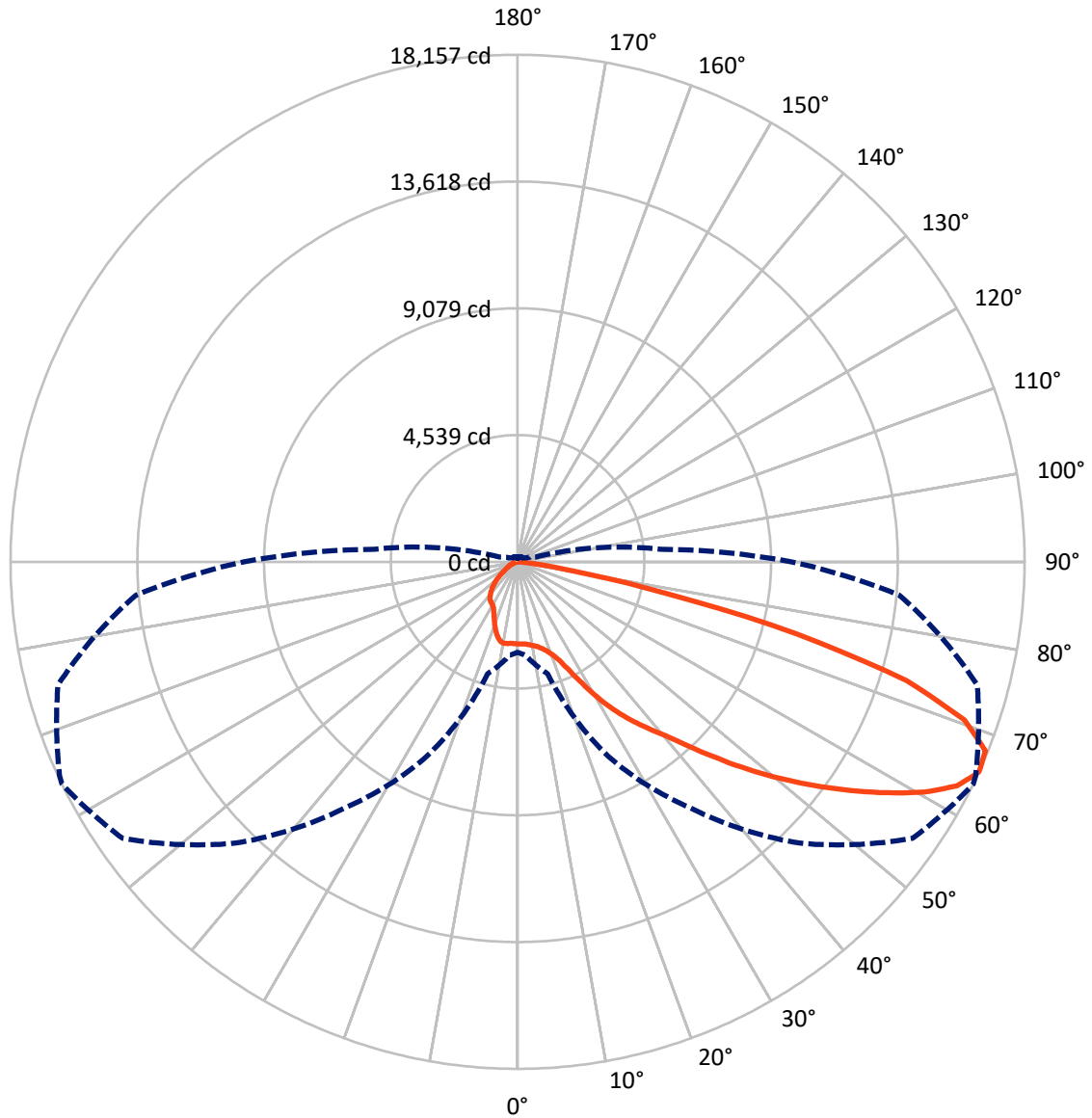
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3383.2 | 0.0 | 3383.2 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 21915.8 | 0.0 | 21915.8 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 25299.0 | 0.0 | 25299.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 271.5 | 1.1 |
| 10°-20° | 736.3 | 2.9 |
| 20°-30° | 1395.3 | 5.5 |
| 30°-40° | 2823.4 | 11.2 |
| 40°-50° | 4809.7 | 19.0 |
| 50°-60° | 6540.8 | 25.9 |
| 60°-70° | 6142.1 | 24.3 |
| 70°-80° | 2460.8 | 9.7 |
| 80°-90° | 119.2 | 0.5 |
| 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° | 25299.0 | 100.0 |
| 0°-180° | 25299.0 | 100.0 |

Coefficient of Utilization



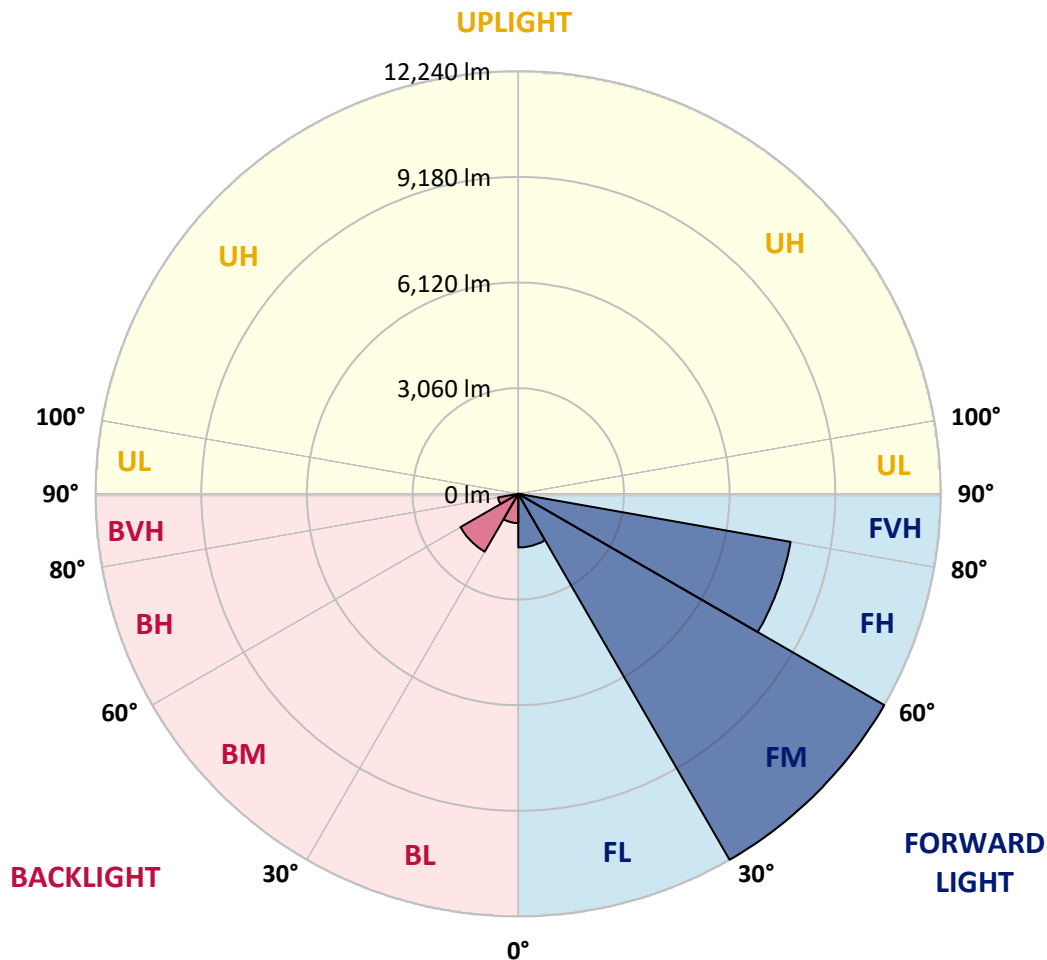
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1553.6 | 6.1 | | | |
| FM (30°-60°) | 12239.6 | 48.4 | | | |
| FH (60°-80°) | 8009.1 | 31.7 | | | G4/12000 |
| FVH (80°-90°) | 113.4 | 0.4 | | | G2/225 |
| BL (0°-30°) | 849.4 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 1934.2 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 593.8 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 5.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2942.5 | 2942.5 | 2942.5 | 2942.5 | 2942.5 | 2942.5 | 2942.5 | 2942.5 | 2942.5 | 2942.5 |
| 2.5° | 2932.4 | 2952.7 | 2947.6 | 2942.5 | 2940.8 | 2944.2 | 2945.9 | 2944.2 | 2944.2 | 2944.2 |
| 5° | 2876.4 | 2893.4 | 2893.4 | 2905.2 | 2922.2 | 2942.5 | 2957.8 | 2961.2 | 2964.6 | 2969.7 |
| 7.5° | 2769.5 | 2783.1 | 2793.3 | 2832.3 | 2874.7 | 2929.0 | 2974.8 | 2998.5 | 3001.9 | 3020.6 |
| 10° | 2696.6 | 2713.6 | 2730.5 | 2771.2 | 2832.3 | 2913.7 | 2991.7 | 3049.4 | 3057.9 | 3102.0 |
| 12.5° | 2693.2 | 2710.2 | 2732.2 | 2776.3 | 2847.6 | 2934.1 | 3029.0 | 3112.1 | 3127.4 | 3191.8 |
| 15° | 2728.8 | 2749.2 | 2769.5 | 2823.8 | 2900.1 | 3005.3 | 3107.0 | 3210.5 | 3225.8 | 3317.3 |
| 17.5° | 2801.8 | 2828.9 | 2844.2 | 2898.4 | 2979.8 | 3096.9 | 3230.9 | 3349.6 | 3363.1 | 3470.0 |
| 20° | 2945.9 | 2978.2 | 2983.2 | 3027.3 | 3107.0 | 3232.6 | 3392.0 | 3539.5 | 3556.5 | 3678.6 |
| 22.5° | 3244.4 | 3290.2 | 3249.5 | 3271.6 | 3342.8 | 3468.3 | 3641.3 | 3827.8 | 3851.6 | 3990.7 |
| 25° | 3770.2 | 3834.6 | 3729.5 | 3692.2 | 3722.7 | 3853.3 | 4070.4 | 4306.1 | 4333.2 | 4445.2 |
| 27.5° | 4803.0 | 4719.9 | 4560.5 | 4404.5 | 4312.9 | 4387.5 | 4631.7 | 4923.4 | 4957.4 | 5065.9 |
| 30° | 5937.6 | 5864.7 | 5649.3 | 5303.3 | 5086.3 | 5074.4 | 5300.0 | 5625.6 | 5664.6 | 5768.0 |
| 32.5° | 7074.0 | 7004.4 | 6770.4 | 6344.7 | 5968.2 | 5781.6 | 5937.6 | 6298.9 | 6319.2 | 6385.4 |
| 35° | 8191.6 | 8120.4 | 7886.3 | 7450.5 | 6987.5 | 6563.5 | 6532.9 | 6940.0 | 6946.8 | 7016.3 |
| 37.5° | 9316.1 | 9256.7 | 9007.4 | 8580.0 | 8123.8 | 7538.7 | 7255.4 | 7547.1 | 7555.6 | 7623.5 |
| 40° | 10118.3 | 10143.7 | 9972.4 | 9641.7 | 9249.9 | 8610.5 | 8066.1 | 8193.3 | 8142.4 | 8256.1 |
| 42.5° | 10806.8 | 10857.7 | 10708.5 | 10542.3 | 10315.0 | 9751.9 | 9070.1 | 9048.1 | 8966.7 | 9027.7 |
| 45° | 11402.1 | 11444.5 | 11310.5 | 11271.5 | 11266.4 | 10871.3 | 10167.4 | 10035.2 | 9921.5 | 9909.6 |
| 47.5° | 11620.9 | 11702.3 | 11760.0 | 11890.6 | 12145.0 | 11978.8 | 11302.1 | 11096.8 | 10969.6 | 10876.4 |
| 50° | 11704.0 | 11790.5 | 11987.2 | 12367.1 | 12969.2 | 13040.4 | 12431.6 | 12200.9 | 12044.9 | 11875.3 |
| 52.5° | 11592.1 | 11746.4 | 12011.0 | 12650.4 | 13523.8 | 13891.8 | 13515.3 | 13313.5 | 13135.4 | 12859.0 |
| 55° | 10932.3 | 11086.7 | 11627.7 | 12647.0 | 13800.2 | 14488.8 | 14539.7 | 14449.8 | 14249.7 | 13813.8 |
| 57.5° | 9541.6 | 9770.6 | 10627.1 | 12216.2 | 13795.2 | 15002.7 | 15543.7 | 15608.2 | 15384.3 | 14760.2 |
| 60° | 7615.0 | 7925.3 | 8970.1 | 11261.3 | 13369.5 | 15280.8 | 16423.9 | 16746.2 | 16508.7 | 15693.0 |
| 62.5° | 5313.5 | 5673.1 | 6661.8 | 9765.5 | 12396.0 | 15080.7 | 17066.7 | 17662.0 | 17482.2 | 16527.4 |
| 65° | 3241.0 | 3356.4 | 4153.5 | 7684.5 | 10740.7 | 14242.9 | 17265.1 | 18157.2 | 18097.9 | 17037.9 |
| 67.5° | 2159.0 | 2255.7 | 2484.6 | 5269.4 | 8337.5 | 12569.0 | 16790.3 | 18070.7 | 18087.7 | 16954.8 |
| 70° | 1300.8 | 1383.9 | 1533.2 | 3064.6 | 5403.4 | 9948.7 | 15319.8 | 16968.3 | 17066.7 | 15843.9 |
| 72.5° | 535.9 | 591.9 | 727.6 | 1389.0 | 2798.4 | 6314.2 | 12199.2 | 14568.5 | 14797.5 | 13322.0 |
| 75° | 303.6 | 332.4 | 427.4 | 697.1 | 1214.3 | 2942.5 | 7389.4 | 10342.1 | 10679.6 | 9182.1 |
| 77.5° | 201.8 | 215.4 | 276.4 | 451.1 | 683.5 | 1004.0 | 3157.9 | 5388.1 | 6032.6 | 5015.0 |
| 80° | 135.7 | 147.6 | 190.0 | 301.9 | 444.3 | 430.8 | 1005.7 | 1996.2 | 2455.8 | 1723.1 |
| 82.5° | 91.6 | 93.3 | 135.7 | 198.4 | 281.5 | 208.6 | 296.8 | 620.7 | 780.2 | 498.6 |
| 85° | 52.6 | 50.9 | 100.1 | 115.3 | 125.5 | 86.5 | 89.9 | 186.6 | 244.2 | 210.3 |
| 87.5° | 6.8 | 10.2 | 39.0 | 30.5 | 17.0 | 18.7 | 18.7 | 32.2 | 47.5 | 50.9 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2942.5 | 0° | 2942.5 | 2942.5 | 2942.5 | 2942.5 | 2942.5 | 2942.5 | 2942.5 | 2942.5 | 2942.5 | 2942.5 |
| 2945.9 | 2.5° | 2945.9 | 2944.2 | 2939.1 | 2934.1 | 2922.2 | 2915.4 | 2918.8 | 2915.4 | 2913.7 | 2915.4 |
| 2968.0 | 5° | 2968.0 | 2962.9 | 2949.3 | 2932.4 | 2908.6 | 2879.8 | 2861.1 | 2834.0 | 2808.6 | 2793.3 |
| 3027.3 | 7.5° | 3027.3 | 3022.2 | 3003.6 | 2956.1 | 2879.8 | 2759.4 | 2649.1 | 2552.5 | 2479.5 | 2437.1 |
| 3122.3 | 10° | 3122.3 | 3113.8 | 3085.0 | 2979.8 | 2779.7 | 2516.8 | 2298.1 | 2116.6 | 1997.9 | 1941.9 |
| 3234.2 | 12.5° | 3234.2 | 3224.1 | 3173.2 | 2957.8 | 2589.8 | 2179.3 | 1877.5 | 1675.6 | 1565.4 | 1516.2 |
| 3363.1 | 15° | 3366.5 | 3353.0 | 3252.9 | 2852.6 | 2313.3 | 1806.2 | 1529.8 | 1378.8 | 1307.6 | 1263.5 |
| 3527.7 | 17.5° | 3531.0 | 3507.3 | 3312.3 | 2694.9 | 2013.1 | 1521.3 | 1316.1 | 1202.5 | 1139.7 | 1097.3 |
| 3743.0 | 20° | 3744.7 | 3705.7 | 3359.7 | 2506.7 | 1736.7 | 1341.5 | 1171.9 | 1077.0 | 1029.5 | 992.2 |
| 4048.3 | 22.5° | 4043.2 | 3987.3 | 3417.4 | 2303.1 | 1541.7 | 1217.7 | 1065.1 | 995.5 | 956.5 | 914.1 |
| 4474.0 | 25° | 4413.0 | 4346.8 | 3488.6 | 2114.9 | 1407.7 | 1110.9 | 987.1 | 929.4 | 883.6 | 834.4 |
| 5032.0 | 27.5° | 4930.2 | 4811.5 | 3573.4 | 1960.6 | 1292.3 | 1019.3 | 915.8 | 851.4 | 798.8 | 758.1 |
| 5664.6 | 30° | 5506.9 | 5311.8 | 3648.1 | 1867.3 | 1187.2 | 934.5 | 822.6 | 758.1 | 708.9 | 680.1 |
| 6232.8 | 32.5° | 6053.0 | 5788.4 | 3697.3 | 1826.6 | 1092.2 | 837.8 | 720.8 | 651.3 | 613.9 | 605.5 |
| 6789.0 | 35° | 6568.6 | 6219.2 | 3692.2 | 1787.6 | 1007.4 | 741.1 | 620.7 | 549.5 | 520.7 | 525.8 |
| 7387.7 | 37.5° | 7162.2 | 6678.8 | 3656.5 | 1726.5 | 937.9 | 653.0 | 534.2 | 471.5 | 446.0 | 447.7 |
| 8115.3 | 40° | 7852.4 | 7209.6 | 3634.5 | 1611.2 | 861.6 | 571.5 | 463.0 | 412.1 | 393.5 | 386.7 |
| 8881.9 | 42.5° | 8588.5 | 7723.5 | 3637.9 | 1480.6 | 766.6 | 498.6 | 413.8 | 371.4 | 354.5 | 349.4 |
| 9735.0 | 45° | 9327.9 | 8213.7 | 3643.0 | 1344.9 | 666.5 | 442.7 | 378.2 | 342.6 | 332.4 | 325.6 |
| 10599.9 | 47.5° | 10023.3 | 8630.9 | 3548.0 | 1199.1 | 568.2 | 400.3 | 349.4 | 325.6 | 317.1 | 308.7 |
| 11468.3 | 50° | 10671.1 | 8909.0 | 3319.0 | 1029.5 | 490.1 | 366.3 | 327.3 | 310.4 | 301.9 | 293.4 |
| 12255.2 | 52.5° | 11174.9 | 8953.1 | 2940.8 | 854.8 | 435.9 | 340.9 | 313.8 | 298.5 | 288.3 | 279.8 |
| 12891.2 | 55° | 11398.7 | 8676.7 | 2403.2 | 692.0 | 393.5 | 318.8 | 300.2 | 284.9 | 273.1 | 264.6 |
| 13391.5 | 57.5° | 11341.1 | 8094.9 | 1874.1 | 556.3 | 352.8 | 296.8 | 283.2 | 273.1 | 259.5 | 245.9 |
| 13796.8 | 60° | 11057.8 | 7316.5 | 1412.8 | 463.0 | 315.5 | 273.1 | 264.6 | 256.1 | 237.4 | 217.1 |
| 13952.9 | 62.5° | 10567.7 | 6337.9 | 1007.4 | 383.3 | 274.7 | 245.9 | 242.5 | 235.7 | 208.6 | 171.3 |
| 13722.2 | 65° | 9818.1 | 5149.0 | 678.4 | 318.8 | 235.7 | 215.4 | 217.1 | 205.2 | 169.6 | 127.2 |
| 12877.6 | 67.5° | 8722.5 | 3765.1 | 434.2 | 261.2 | 196.7 | 179.8 | 181.5 | 174.7 | 144.2 | 108.5 |
| 11276.6 | 70° | 7326.7 | 2493.1 | 283.2 | 198.4 | 157.7 | 139.1 | 149.2 | 150.9 | 122.1 | 88.2 |
| 8654.6 | 72.5° | 5371.2 | 1472.1 | 198.4 | 147.6 | 115.3 | 96.7 | 122.1 | 125.5 | 98.4 | 66.1 |
| 5206.7 | 75° | 3061.3 | 698.7 | 149.2 | 106.8 | 71.2 | 67.8 | 95.0 | 95.0 | 67.8 | 44.1 |
| 2254.0 | 77.5° | 1285.6 | 291.7 | 105.2 | 69.5 | 40.7 | 39.0 | 64.4 | 59.4 | 33.9 | 20.4 |
| 549.5 | 80° | 371.4 | 130.6 | 56.0 | 33.9 | 17.0 | 15.3 | 25.4 | 18.7 | 8.5 | 3.4 |
| 208.6 | 82.5° | 145.9 | 57.7 | 22.0 | 13.6 | 6.8 | 6.8 | 3.4 | 0.0 | 0.0 | 0.0 |
| 118.7 | 85° | 86.5 | 23.7 | 10.2 | 5.1 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25.4 | 87.5° | 22.0 | 5.1 | 3.4 | 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° |
|--------|
| 2942.5 |
| 2922.2 |
| 2796.7 |
| 2438.8 |
| 1936.8 |
| 1511.1 |
| 1265.2 |
| 1093.9 |
| 985.4 |
| 907.4 |
| 829.3 |
| 749.6 |
| 675.0 |
| 610.6 |
| 525.8 |
| 454.5 |
| 385.0 |
| 347.7 |
| 325.6 |
| 308.7 |
| 293.4 |
| 278.1 |
| 262.9 |
| 244.2 |
| 213.7 |
| 167.9 |
| 123.8 |
| 103.5 |
| 84.8 |
| 62.8 |
| 40.7 |
| 20.4 |
| 3.4 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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