

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: P847508

Luminaire Tested: **GLAN-SB3C-850-U-T3**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P847508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB3C-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19307 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

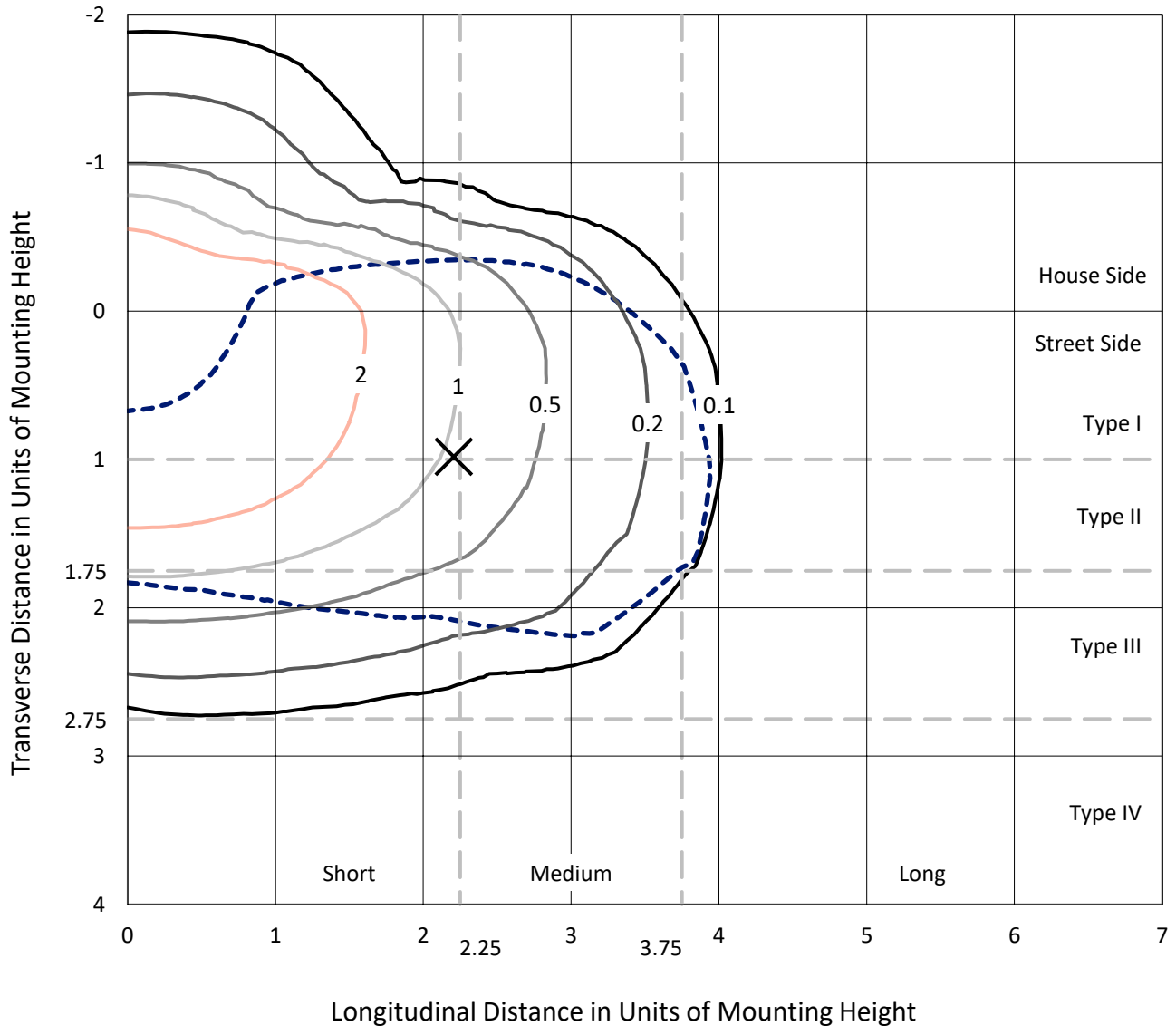
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

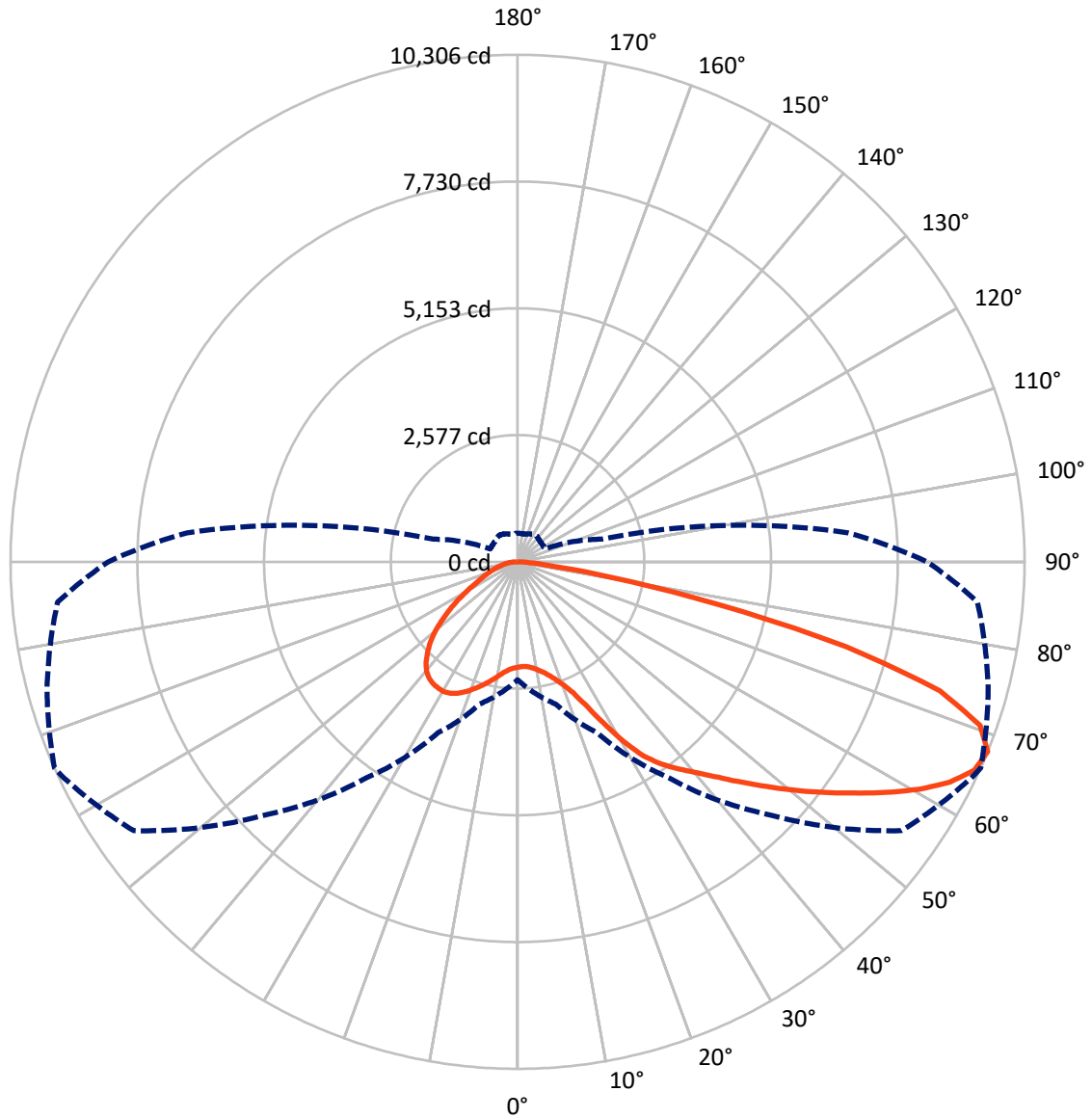
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4800.6 | 0.0 | 4800.6 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 14506.4 | 0.0 | 14506.4 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 19307.0 | 0.0 | 19307.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 212.3 | 1.1 |
| 10°-20° | 701.4 | 3.6 |
| 20°-30° | 1352.0 | 7.0 |
| 30°-40° | 2370.6 | 12.3 |
| 40°-50° | 3524.2 | 18.3 |
| 50°-60° | 4467.3 | 23.1 |
| 60°-70° | 4371.2 | 22.6 |
| 70°-80° | 2085.1 | 10.8 |
| 80°-90° | 222.8 | 1.2 |
| 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° | 19307.0 | 100.0 |
| 0°-180° | 19307.0 | 100.0 |

Coefficient of Utilization



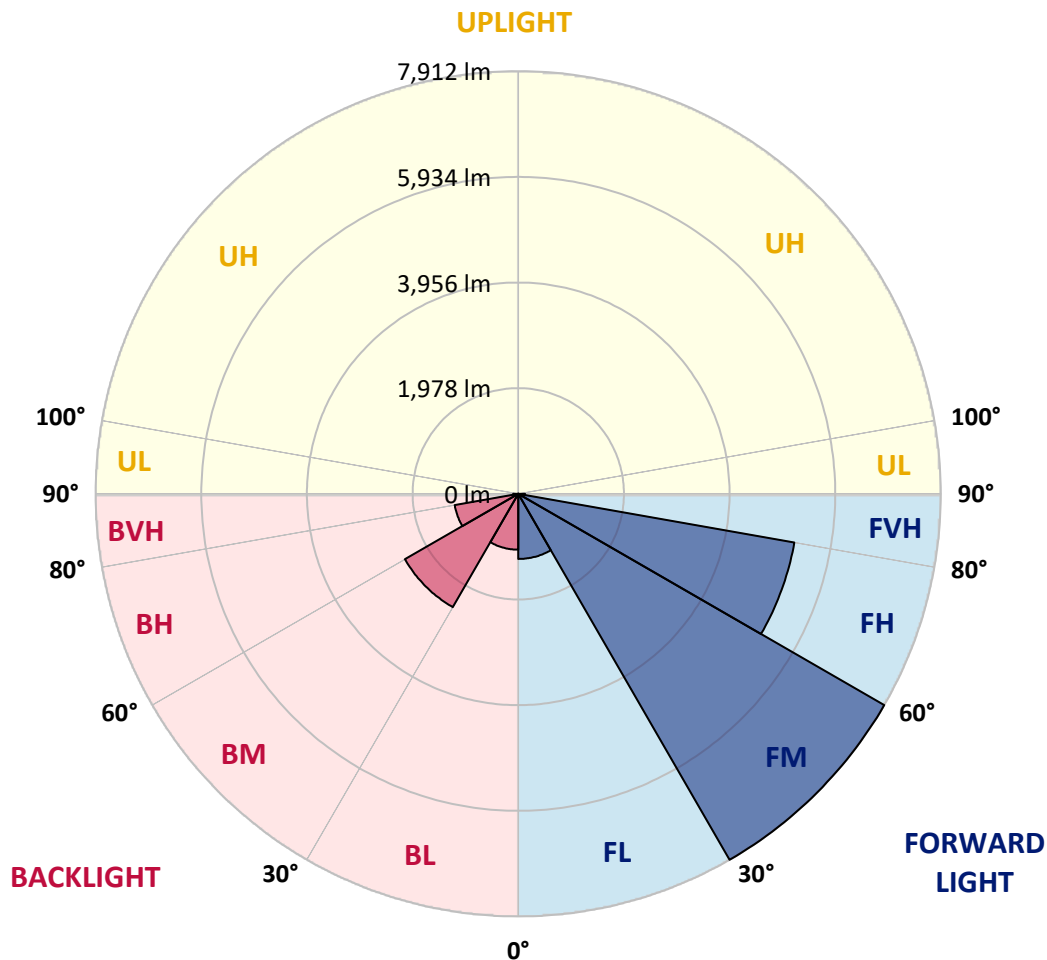
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1220.0 | 6.3 | | | |
| FM (30°-60°) | 7911.8 | 41.0 | | | |
| FH (60°-80°) | 5248.2 | 27.2 | | | G3/7500 |
| FVH (80°-90°) | 126.3 | 0.7 | | | G2/225 |
| BL (0°-30°) | 1045.8 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 2450.3 | 12.7 | B2/2500 | | |
| BH (60°-80°) | 1208.1 | 6.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 96.5 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0° | 2141.4 | 2141.4 | 2141.4 | 2141.4 | 2141.4 | 2141.4 | 2141.4 | 2141.4 | 2141.4 | 2141.4 |
| 2.5° | 2119.1 | 2131.3 | 2128.2 | 2123.1 | 2122.1 | 2124.2 | 2127.2 | 2130.2 | 2129.2 | 2134.3 |
| 5° | 2113.0 | 2125.2 | 2124.2 | 2124.2 | 2128.2 | 2136.3 | 2141.4 | 2146.5 | 2141.4 | 2147.5 |
| 7.5° | 2117.1 | 2126.2 | 2130.2 | 2134.3 | 2144.4 | 2159.7 | 2171.8 | 2183.0 | 2176.9 | 2184.0 |
| 10° | 2168.8 | 2175.9 | 2179.9 | 2179.9 | 2187.0 | 2204.3 | 2216.5 | 2236.8 | 2231.7 | 2242.8 |
| 12.5° | 2263.1 | 2270.2 | 2270.2 | 2266.2 | 2271.2 | 2282.4 | 2286.5 | 2308.8 | 2299.6 | 2317.9 |
| 15° | 2378.8 | 2393.0 | 2381.8 | 2374.7 | 2376.7 | 2387.9 | 2386.9 | 2404.1 | 2395.0 | 2410.2 |
| 17.5° | 2506.6 | 2524.8 | 2506.6 | 2505.6 | 2501.5 | 2513.7 | 2514.7 | 2529.9 | 2513.7 | 2524.8 |
| 20° | 2657.7 | 2683.1 | 2667.9 | 2672.9 | 2663.8 | 2668.9 | 2674.0 | 2696.3 | 2670.9 | 2679.0 |
| 22.5° | 2870.8 | 2901.2 | 2885.0 | 2904.2 | 2898.1 | 2894.1 | 2893.1 | 2932.6 | 2893.1 | 2896.1 |
| 25° | 3181.2 | 3217.7 | 3189.3 | 3215.7 | 3215.7 | 3228.8 | 3244.1 | 3294.8 | 3228.8 | 3209.6 |
| 27.5° | 3639.7 | 3676.2 | 3620.4 | 3636.6 | 3631.6 | 3664.0 | 3647.8 | 3773.6 | 3702.6 | 3671.1 |
| 30° | 4191.5 | 4256.4 | 4150.9 | 4146.9 | 4141.8 | 4193.5 | 4216.9 | 4300.0 | 4228.0 | 4196.6 |
| 32.5° | 4788.0 | 4855.9 | 4730.2 | 4693.6 | 4674.4 | 4705.8 | 4686.5 | 4753.5 | 4703.8 | 4655.1 |
| 35° | 5418.9 | 5485.9 | 5366.2 | 5295.2 | 5218.1 | 5152.1 | 5083.2 | 5100.4 | 5053.7 | 4979.7 |
| 37.5° | 6015.4 | 6138.1 | 6011.3 | 5935.3 | 5793.2 | 5664.4 | 5471.7 | 5391.5 | 5347.9 | 5280.0 |
| 40° | 6623.0 | 6693.0 | 6596.7 | 6531.7 | 6377.5 | 6175.7 | 5867.3 | 5697.9 | 5639.1 | 5573.1 |
| 42.5° | 7070.4 | 7137.3 | 7085.6 | 7041.0 | 6920.2 | 6685.9 | 6287.3 | 6075.3 | 5990.0 | 5916.0 |
| 45° | 7425.4 | 7475.1 | 7442.7 | 7458.9 | 7407.2 | 7179.9 | 6722.4 | 6480.0 | 6391.7 | 6301.5 |
| 47.5° | 7568.4 | 7621.2 | 7672.9 | 7769.3 | 7857.6 | 7690.2 | 7190.1 | 6918.2 | 6824.9 | 6732.6 |
| 50° | 7552.2 | 7606.0 | 7756.1 | 7961.0 | 8234.9 | 8179.1 | 7683.1 | 7384.8 | 7298.6 | 7193.1 |
| 52.5° | 7422.4 | 7483.2 | 7676.0 | 8016.8 | 8453.0 | 8545.3 | 8185.2 | 7866.7 | 7785.5 | 7659.7 |
| 55° | 7081.5 | 7118.1 | 7407.2 | 7890.0 | 8504.7 | 8800.9 | 8677.2 | 8380.0 | 8298.8 | 8123.3 |
| 57.5° | 6449.6 | 6502.3 | 6923.3 | 7548.2 | 8374.9 | 8974.4 | 9109.3 | 8919.6 | 8841.5 | 8588.9 |
| 60° | 5624.9 | 5709.1 | 6190.9 | 6974.0 | 8044.2 | 8973.4 | 9501.9 | 9450.2 | 9385.2 | 9047.4 |
| 62.5° | 4691.6 | 4789.0 | 5252.6 | 6162.5 | 7466.0 | 8718.8 | 9747.4 | 9894.5 | 9861.0 | 9470.5 |
| 65° | 3603.2 | 3670.1 | 4131.7 | 5112.6 | 6566.2 | 8172.0 | 9775.8 | 10197.8 | 10203.9 | 9792.0 |
| 67.5° | 2399.1 | 2591.8 | 2992.5 | 3836.5 | 5361.1 | 7278.3 | 9526.2 | 10247.5 | 10306.3 | 9902.6 |
| 70° | 1170.6 | 1424.2 | 1816.8 | 2493.4 | 3836.5 | 5907.9 | 8874.0 | 9839.7 | 9970.6 | 9580.0 |
| 72.5° | 485.9 | 568.1 | 782.1 | 1230.5 | 2202.3 | 3986.6 | 7563.4 | 8734.0 | 8976.4 | 8488.5 |
| 75° | 327.7 | 355.0 | 447.4 | 631.0 | 1003.2 | 1965.9 | 5454.4 | 6512.5 | 6903.0 | 6411.0 |
| 77.5° | 252.6 | 269.8 | 325.6 | 441.3 | 596.5 | 743.6 | 2919.4 | 3924.7 | 4126.6 | 3820.2 |
| 80° | 198.8 | 212.0 | 243.5 | 321.6 | 423.0 | 397.6 | 995.1 | 1778.2 | 1894.9 | 1589.6 |
| 82.5° | 172.4 | 177.5 | 174.5 | 218.1 | 281.0 | 232.3 | 326.6 | 656.3 | 724.3 | 525.5 |
| 85° | 124.8 | 139.0 | 145.1 | 134.9 | 149.1 | 117.7 | 133.9 | 232.3 | 255.6 | 228.2 |
| 87.5° | 50.7 | 75.1 | 92.3 | 87.2 | 54.8 | 33.5 | 41.6 | 68.0 | 78.1 | 85.2 |
| 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: GLAN-SB3C-850-U-T3

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2141.4 | 0° | 2141.4 | 2141.4 | 2141.4 | 2141.4 | 2141.4 | 2141.4 | 2141.4 | 2141.4 | 2141.4 | 2141.4 |
| 2142.4 | 2.5° | 2143.4 | 2150.5 | 2155.6 | 2161.7 | 2165.7 | 2171.8 | 2184.0 | 2191.1 | 2192.1 | 2197.2 |
| 2158.6 | 5° | 2162.7 | 2172.8 | 2184.0 | 2200.2 | 2218.5 | 2233.7 | 2257.0 | 2273.3 | 2279.4 | 2284.4 |
| 2198.2 | 7.5° | 2204.3 | 2218.5 | 2238.8 | 2267.2 | 2293.6 | 2313.8 | 2342.3 | 2361.5 | 2380.8 | 2387.9 |
| 2261.1 | 10° | 2266.2 | 2286.5 | 2315.9 | 2354.4 | 2382.8 | 2409.2 | 2438.6 | 2454.9 | 2474.1 | 2482.2 |
| 2336.2 | 12.5° | 2343.3 | 2364.6 | 2403.1 | 2456.9 | 2483.3 | 2501.5 | 2511.7 | 2507.6 | 2511.7 | 2518.8 |
| 2426.4 | 15° | 2431.5 | 2454.9 | 2498.5 | 2556.3 | 2574.6 | 2558.3 | 2536.0 | 2515.7 | 2512.7 | 2514.7 |
| 2536.0 | 17.5° | 2536.0 | 2553.2 | 2604.0 | 2652.7 | 2639.5 | 2572.5 | 2523.8 | 2491.4 | 2475.1 | 2470.1 |
| 2676.0 | 20° | 2682.1 | 2682.1 | 2723.7 | 2754.1 | 2665.8 | 2552.2 | 2476.2 | 2423.4 | 2389.9 | 2375.7 |
| 2866.7 | 22.5° | 2859.6 | 2843.4 | 2869.7 | 2848.4 | 2660.8 | 2495.4 | 2389.9 | 2298.6 | 2247.9 | 2227.6 |
| 3133.5 | 25° | 3084.8 | 3065.5 | 3058.4 | 2926.5 | 2624.3 | 2405.1 | 2233.7 | 2123.1 | 2078.5 | 2067.4 |
| 3517.9 | 27.5° | 3424.6 | 3375.9 | 3283.6 | 2969.2 | 2557.3 | 2263.1 | 2051.1 | 1948.7 | 1923.3 | 1924.3 |
| 4012.0 | 30° | 3877.0 | 3779.7 | 3553.4 | 2976.3 | 2447.8 | 2062.3 | 1864.5 | 1791.4 | 1779.3 | 1784.3 |
| 4426.8 | 32.5° | 4296.0 | 4203.7 | 3829.4 | 2943.8 | 2279.4 | 1865.5 | 1697.1 | 1648.4 | 1630.1 | 1636.2 |
| 4743.3 | 35° | 4624.7 | 4599.3 | 4085.0 | 2898.1 | 2072.4 | 1680.9 | 1547.0 | 1505.4 | 1469.9 | 1461.8 |
| 5041.6 | 37.5° | 4935.1 | 4924.9 | 4276.7 | 2834.2 | 1867.5 | 1550.0 | 1426.2 | 1371.5 | 1319.7 | 1291.3 |
| 5371.3 | 40° | 5275.9 | 5265.8 | 4402.5 | 2735.8 | 1685.9 | 1436.4 | 1317.7 | 1245.7 | 1181.8 | 1130.0 |
| 5744.6 | 42.5° | 5659.3 | 5599.5 | 4462.4 | 2594.8 | 1531.7 | 1340.0 | 1229.5 | 1132.1 | 1047.9 | 1000.2 |
| 6166.5 | 45° | 6078.3 | 5943.4 | 4461.3 | 2415.3 | 1401.9 | 1251.8 | 1135.1 | 997.2 | 919.0 | 874.4 |
| 6599.7 | 47.5° | 6522.6 | 6272.0 | 4406.6 | 2216.5 | 1276.1 | 1154.4 | 989.0 | 883.5 | 831.8 | 804.4 |
| 7070.4 | 50° | 6981.1 | 6579.4 | 4313.2 | 1988.2 | 1147.3 | 1043.8 | 897.7 | 825.7 | 786.2 | 760.8 |
| 7537.0 | 52.5° | 7412.2 | 6858.4 | 4200.6 | 1729.6 | 1016.4 | 936.3 | 857.2 | 801.4 | 759.8 | 731.4 |
| 7989.4 | 55° | 7812.9 | 7098.8 | 4041.4 | 1464.8 | 909.9 | 864.3 | 837.9 | 791.2 | 743.6 | 710.1 |
| 8448.9 | 57.5° | 8169.0 | 7255.0 | 3766.5 | 1216.3 | 833.8 | 814.6 | 817.6 | 774.0 | 719.2 | 690.8 |
| 8901.4 | 60° | 8465.2 | 7369.6 | 3359.7 | 986.0 | 772.0 | 765.9 | 786.2 | 741.5 | 677.6 | 645.2 |
| 9283.8 | 62.5° | 8642.7 | 7367.6 | 2860.6 | 807.5 | 719.2 | 721.2 | 744.6 | 701.0 | 636.0 | 605.6 |
| 9483.6 | 65° | 8627.5 | 7187.0 | 2312.8 | 690.8 | 668.5 | 670.5 | 701.0 | 656.3 | 601.5 | 583.3 |
| 9383.2 | 67.5° | 8322.1 | 6746.8 | 1774.2 | 614.7 | 612.7 | 621.8 | 657.3 | 625.9 | 580.2 | 578.2 |
| 8784.7 | 70° | 7495.4 | 5832.8 | 1278.1 | 553.9 | 554.9 | 568.1 | 614.7 | 606.6 | 569.1 | 573.1 |
| 7385.9 | 72.5° | 6010.3 | 4447.1 | 858.2 | 490.0 | 491.0 | 512.3 | 574.2 | 591.4 | 557.9 | 611.7 |
| 5240.4 | 75° | 4002.8 | 2773.4 | 551.8 | 422.0 | 423.0 | 450.4 | 538.6 | 562.0 | 527.5 | 609.7 |
| 2726.7 | 77.5° | 1923.3 | 1246.7 | 399.7 | 355.0 | 355.0 | 380.4 | 465.6 | 503.1 | 449.4 | 473.7 |
| 876.4 | 80° | 664.4 | 468.7 | 314.5 | 286.1 | 280.0 | 297.2 | 392.6 | 436.2 | 387.5 | 357.1 |
| 286.1 | 82.5° | 261.7 | 243.5 | 252.6 | 222.2 | 201.9 | 213.0 | 305.3 | 360.1 | 285.0 | 257.7 |
| 161.3 | 85° | 150.1 | 158.2 | 178.5 | 147.1 | 116.7 | 130.9 | 224.2 | 258.7 | 215.1 | 189.7 |
| 52.7 | 87.5° | 40.6 | 55.8 | 82.2 | 76.1 | 52.7 | 55.8 | 106.5 | 143.0 | 123.8 | 95.4 |
| 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° |
|--------|
| 2141.4 |
| 2196.2 |
| 2283.4 |
| 2388.9 |
| 2486.3 |
| 2520.8 |
| 2521.8 |
| 2477.2 |
| 2372.7 |
| 2224.6 |
| 2069.4 |
| 1927.4 |
| 1801.6 |
| 1644.3 |
| 1467.8 |
| 1292.3 |
| 1135.1 |
| 1003.2 |
| 872.4 |
| 798.3 |
| 751.7 |
| 719.2 |
| 696.9 |
| 672.5 |
| 631.0 |
| 596.5 |
| 582.3 |
| 581.3 |
| 572.1 |
| 619.8 |
| 614.7 |
| 434.2 |
| 334.8 |
| 256.6 |
| 193.8 |
| 98.4 |
| 0.0 |

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