

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: P848966

Luminaire Tested: **GLAN-SB5D-740-U-T2**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB5D-740-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53886 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

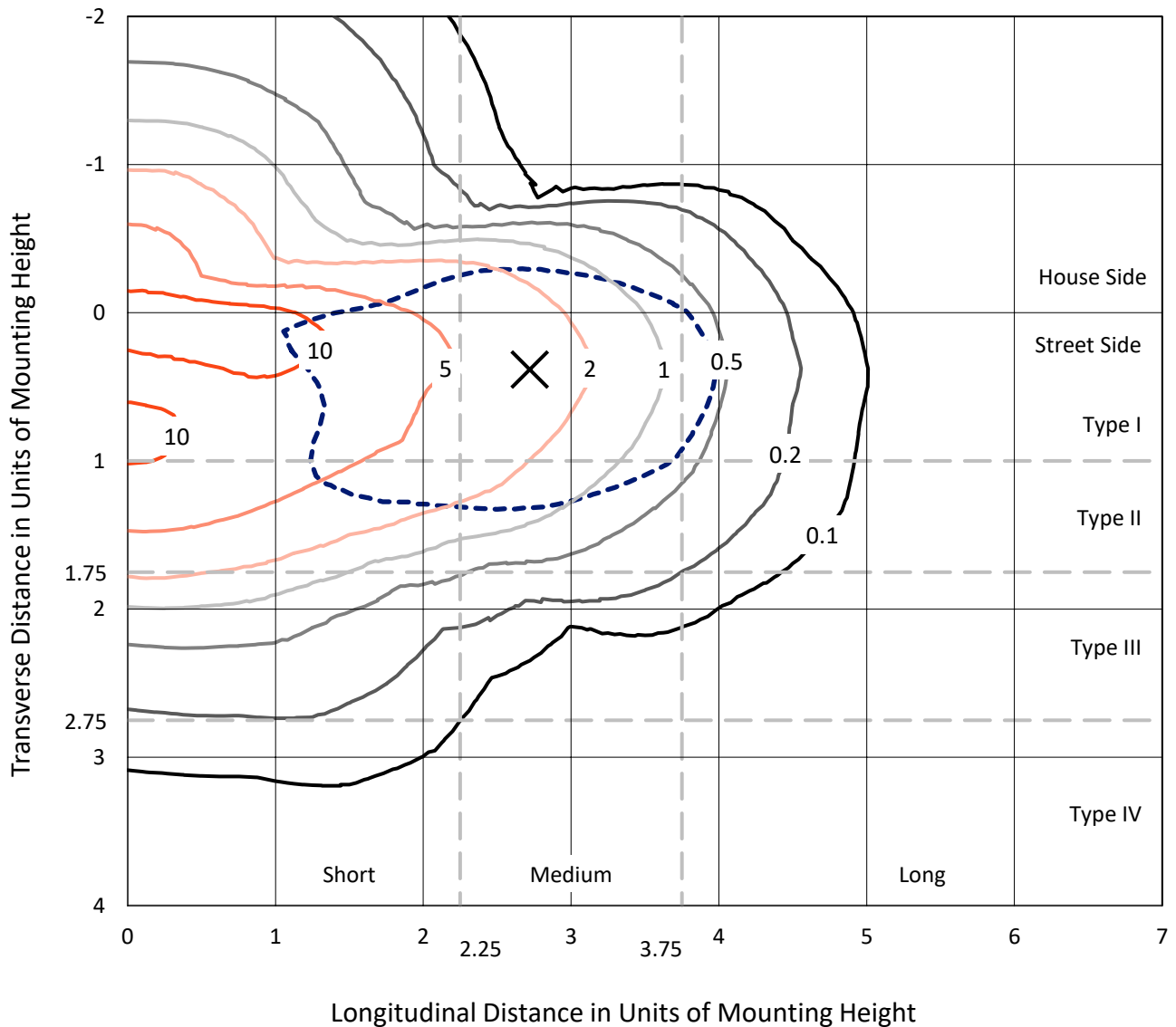
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

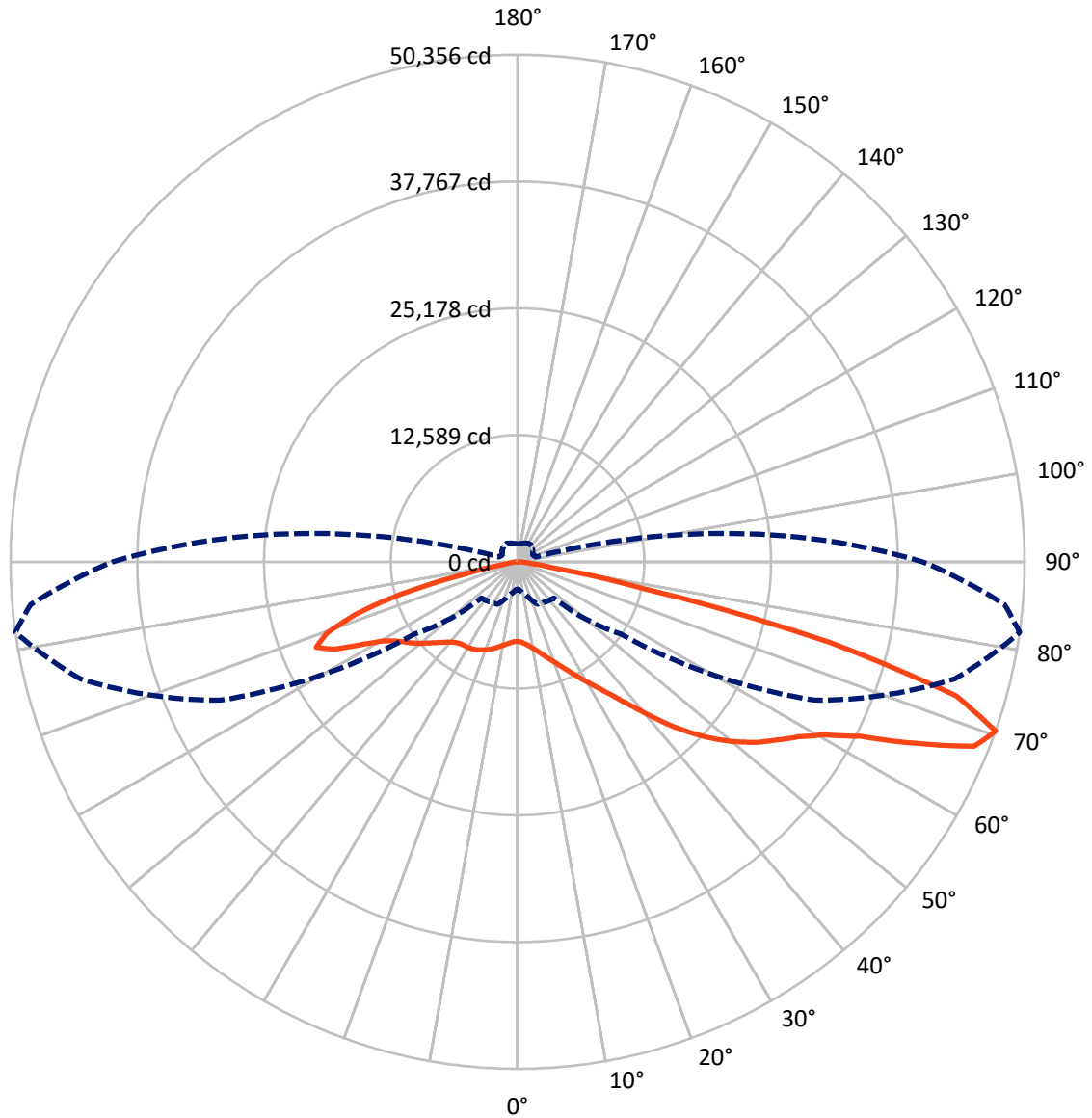
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13284.2 | 0.0 | 13284.2 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 40601.8 | 0.0 | 40601.8 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 53886.0 | 0.0 | 53886.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 745.9 | 1.4 |
| 10°-20° | 2143.1 | 4.0 |
| 20°-30° | 3585.2 | 6.7 |
| 30°-40° | 5601.0 | 10.4 |
| 40°-50° | 8920.3 | 16.6 |
| 50°-60° | 12413.7 | 23.0 |
| 60°-70° | 12985.3 | 24.1 |
| 70°-80° | 6786.8 | 12.6 |
| 80°-90° | 704.7 | 1.3 |
| 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° | 53886.0 | 100.0 |
| 0°-180° | 53886.0 | 100.0 |

Coefficient of Utilization



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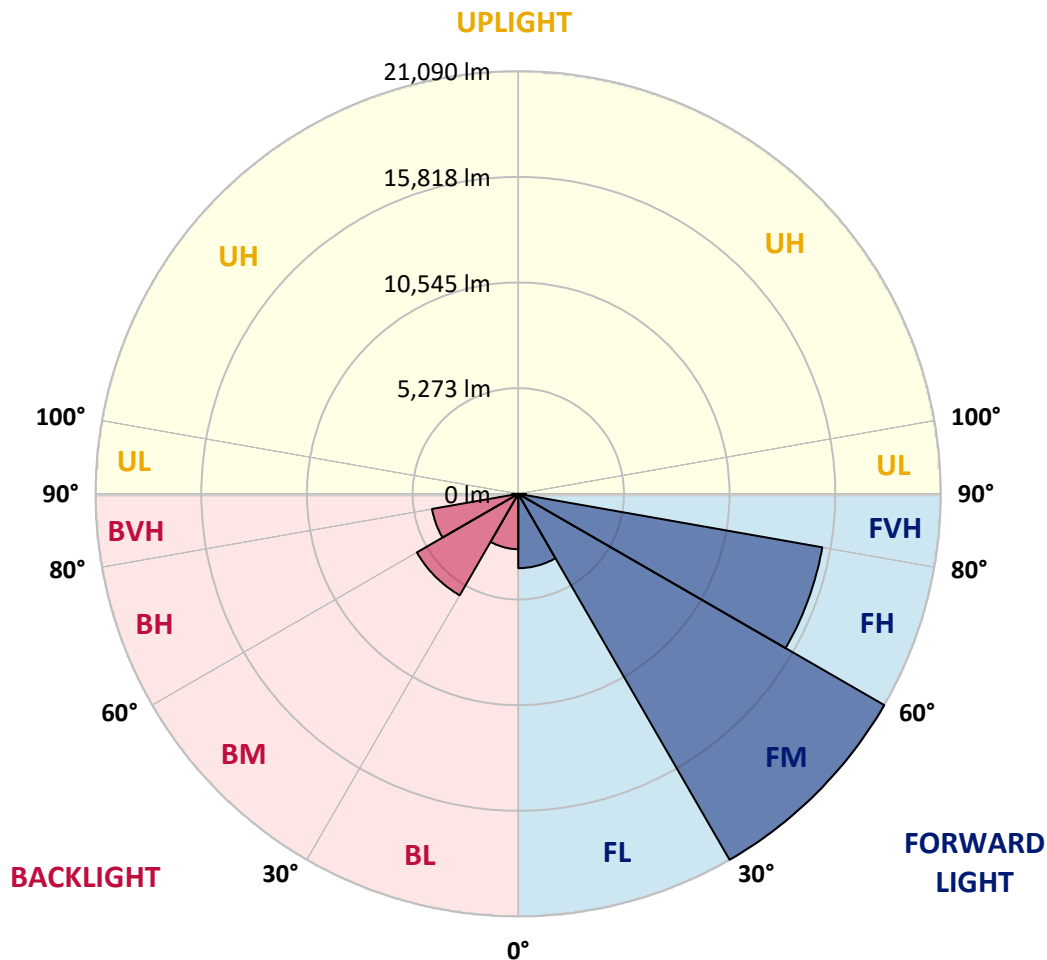
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3710.7 | 6.9 | | | |
| FM (30°-60°) | 21090.4 | 39.1 | | | |
| FH (60°-80°) | 15406.2 | 28.6 | | | G5 |
| FVH (80°-90°) | 394.5 | 0.7 | | | G3/500 |
| BL (0°-30°) | 2763.6 | 5.1 | B4/5000 | | |
| BM (30°-60°) | 5844.5 | 10.8 | B4/8500 | | |
| BH (60°-80°) | 4365.9 | 8.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 310.2 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7900.4 | 7900.4 | 7900.4 | 7900.4 | 7900.4 | 7900.4 | 7900.4 | 7900.4 | 7900.4 | 7900.4 |
| 2.5° | 8089.1 | 8134.8 | 8120.5 | 8106.2 | 8106.2 | 8086.2 | 8083.4 | 8054.8 | 8031.9 | 7994.7 |
| 5° | 8192.0 | 8240.6 | 8234.9 | 8246.3 | 8283.5 | 8292.1 | 8300.7 | 8283.5 | 8237.8 | 8192.0 |
| 7.5° | 8100.5 | 8154.8 | 8172.0 | 8240.6 | 8355.0 | 8457.9 | 8535.1 | 8566.6 | 8523.7 | 8457.9 |
| 10° | 7791.7 | 7851.8 | 7911.8 | 8074.8 | 8277.8 | 8520.8 | 8726.7 | 8849.7 | 8841.1 | 8778.2 |
| 12.5° | 7165.5 | 7228.4 | 7357.1 | 7674.5 | 8046.2 | 8475.1 | 8858.2 | 9115.6 | 9204.2 | 9158.5 |
| 15° | 6665.1 | 6719.5 | 6816.7 | 7142.6 | 7625.9 | 8277.8 | 8906.8 | 9407.2 | 9633.1 | 9607.4 |
| 17.5° | 6650.8 | 6673.7 | 6733.7 | 6888.2 | 7259.9 | 7969.0 | 8855.4 | 9693.2 | 10124.9 | 10122.1 |
| 20° | 6902.5 | 6911.0 | 6945.3 | 6976.8 | 7188.4 | 7734.5 | 8723.9 | 9930.5 | 10676.8 | 10676.8 |
| 22.5° | 7251.3 | 7245.6 | 7279.9 | 7251.3 | 7354.2 | 7714.5 | 8640.9 | 10139.2 | 11291.5 | 11337.3 |
| 25° | 7774.6 | 7746.0 | 7737.4 | 7671.6 | 7691.6 | 7900.4 | 8732.4 | 10376.6 | 12020.7 | 12115.0 |
| 27.5° | 8472.2 | 8426.5 | 8395.0 | 8243.5 | 8192.0 | 8283.5 | 9012.6 | 10662.5 | 12832.7 | 12995.7 |
| 30° | 9381.5 | 9298.6 | 9252.8 | 8989.8 | 8803.9 | 8818.2 | 9435.8 | 11042.8 | 13682.0 | 13945.0 |
| 32.5° | 10622.5 | 10493.8 | 10370.8 | 9939.1 | 9598.8 | 9487.3 | 9982.0 | 11568.9 | 14602.7 | 15023.0 |
| 35° | 12012.1 | 11909.2 | 11777.6 | 11111.4 | 10588.1 | 10330.8 | 10719.7 | 12303.7 | 15680.6 | 16346.9 |
| 37.5° | 13350.3 | 13261.6 | 13324.5 | 12426.7 | 11751.9 | 11377.3 | 11686.1 | 13290.2 | 17010.2 | 17993.8 |
| 40° | 14734.2 | 14665.6 | 14674.1 | 13816.3 | 13030.0 | 12609.7 | 12858.5 | 14528.3 | 18534.3 | 19952.5 |
| 42.5° | 16238.2 | 16186.7 | 16015.2 | 15254.6 | 14371.1 | 13979.3 | 14208.1 | 15958.0 | 20169.8 | 22182.8 |
| 45° | 17922.4 | 17890.9 | 17730.8 | 16858.7 | 15846.5 | 15406.1 | 15714.9 | 17536.3 | 21813.9 | 24281.5 |
| 47.5° | 19377.8 | 19403.5 | 19383.5 | 18648.6 | 17599.2 | 16953.0 | 17321.9 | 19183.3 | 23343.7 | 26254.5 |
| 50° | 20078.3 | 20212.7 | 20410.0 | 20181.2 | 19529.3 | 18871.7 | 18943.1 | 20773.1 | 24801.9 | 28104.5 |
| 52.5° | 19712.3 | 19966.8 | 20504.3 | 20870.3 | 21122.0 | 20984.7 | 20793.1 | 22351.5 | 26174.4 | 29774.3 |
| 55° | 18348.4 | 18705.8 | 19597.9 | 20481.5 | 21765.3 | 22763.2 | 23014.8 | 24101.4 | 27512.6 | 31244.0 |
| 57.5° | 15863.6 | 16444.1 | 17244.7 | 19031.8 | 21193.4 | 23623.9 | 25605.4 | 26529.0 | 28930.8 | 32813.8 |
| 60° | 11603.2 | 12381.0 | 13376.0 | 16035.2 | 19191.9 | 23163.5 | 27810.0 | 30257.6 | 30946.7 | 34846.8 |
| 62.5° | 7425.7 | 7906.1 | 8821.1 | 11325.9 | 14954.4 | 20804.6 | 28484.8 | 34918.3 | 34363.6 | 38180.8 |
| 65° | 5083.9 | 5392.7 | 6230.5 | 7637.3 | 9667.4 | 15486.2 | 26677.7 | 38412.4 | 39790.6 | 43464.9 |
| 67.5° | 3694.3 | 3928.7 | 4643.6 | 5875.9 | 6299.1 | 9164.2 | 20701.6 | 38252.3 | 45066.1 | 48909.0 |
| 70° | 2693.5 | 2859.3 | 3459.8 | 4643.6 | 4846.6 | 5098.2 | 12541.1 | 32516.4 | 44951.7 | 50355.9 |
| 72.5° | 1995.8 | 2110.2 | 2513.4 | 3602.8 | 3923.0 | 3442.6 | 6207.6 | 23632.5 | 38626.8 | 45546.5 |
| 75° | 1444.0 | 1529.7 | 1827.1 | 2756.4 | 3139.6 | 2622.0 | 3096.7 | 13810.6 | 26943.6 | 32038.9 |
| 77.5° | 1103.7 | 1169.5 | 1363.9 | 2018.7 | 2513.4 | 1967.2 | 1921.5 | 6353.5 | 12775.5 | 12838.4 |
| 80° | 886.4 | 929.3 | 1035.1 | 1421.1 | 1927.2 | 1472.6 | 1252.4 | 2564.8 | 4037.4 | 3416.9 |
| 82.5° | 651.9 | 723.4 | 875.0 | 997.9 | 1378.2 | 1015.1 | 763.4 | 1295.3 | 1535.5 | 1321.0 |
| 85° | 371.7 | 420.3 | 529.0 | 714.8 | 880.7 | 620.5 | 437.5 | 574.7 | 714.8 | 586.2 |
| 87.5° | 131.5 | 171.6 | 185.9 | 280.2 | 383.2 | 257.3 | 168.7 | 165.8 | 234.5 | 174.4 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7900.4 | 0° | 7900.4 | 7900.4 | 7900.4 | 7900.4 | 7900.4 | 7900.4 | 7900.4 | 7900.4 | 7900.4 | 7900.4 |
| 7986.1 | 2.5° | 7957.5 | 7943.3 | 7886.1 | 7808.9 | 7728.8 | 7651.6 | 7625.9 | 7571.5 | 7534.4 | 7514.4 |
| 8172.0 | 5° | 8117.7 | 8071.9 | 7937.5 | 7766.0 | 7585.8 | 7391.4 | 7254.2 | 7128.3 | 7036.8 | 6951.1 |
| 8426.5 | 7.5° | 8346.4 | 8266.4 | 8034.8 | 7734.5 | 7414.3 | 7091.2 | 6851.0 | 6668.0 | 6545.0 | 6465.0 |
| 8723.9 | 10° | 8612.3 | 8489.4 | 8134.8 | 7685.9 | 7191.2 | 6728.0 | 6445.0 | 6287.7 | 6210.5 | 6167.6 |
| 9064.1 | 12.5° | 8918.3 | 8743.9 | 8237.8 | 7574.4 | 6851.0 | 6322.0 | 6127.6 | 6081.8 | 6084.7 | 6087.5 |
| 9493.0 | 15° | 9295.7 | 9052.7 | 8320.7 | 7331.4 | 6407.8 | 6010.3 | 5976.0 | 6050.4 | 6127.6 | 6164.7 |
| 9979.1 | 17.5° | 9721.8 | 9378.6 | 8335.0 | 6931.0 | 5973.2 | 5810.2 | 5918.8 | 6079.0 | 6196.2 | 6247.7 |
| 10522.4 | 20° | 10179.3 | 9710.3 | 8232.0 | 6364.9 | 5615.7 | 5647.2 | 5841.6 | 6047.5 | 6176.2 | 6241.9 |
| 11142.9 | 22.5° | 10702.5 | 10064.9 | 7986.1 | 5770.2 | 5324.1 | 5469.9 | 5698.7 | 5898.8 | 6033.2 | 6099.0 |
| 11872.0 | 25° | 11300.1 | 10462.3 | 7600.1 | 5269.8 | 5072.5 | 5269.8 | 5498.5 | 5664.4 | 5773.0 | 5833.1 |
| 12686.9 | 27.5° | 11963.5 | 10876.9 | 7085.4 | 4872.3 | 4852.3 | 5063.9 | 5252.6 | 5381.3 | 5438.5 | 5484.2 |
| 13553.3 | 30° | 12629.7 | 11254.4 | 6462.1 | 4572.1 | 4660.7 | 4860.9 | 4995.3 | 5052.5 | 5069.6 | 5078.2 |
| 14519.7 | 32.5° | 13350.3 | 11580.3 | 5807.3 | 4323.3 | 4477.7 | 4663.6 | 4743.6 | 4769.4 | 4689.3 | 4635.0 |
| 15692.1 | 35° | 14222.4 | 11929.2 | 5166.8 | 4126.0 | 4297.6 | 4457.7 | 4483.4 | 4460.6 | 4366.2 | 4254.7 |
| 17161.8 | 37.5° | 15300.3 | 12363.8 | 4655.0 | 3985.9 | 4128.9 | 4234.7 | 4203.2 | 4197.5 | 4206.1 | 4074.6 |
| 18928.8 | 40° | 16621.4 | 12929.9 | 4280.4 | 3877.3 | 3991.6 | 4014.5 | 3925.9 | 3974.5 | 4017.4 | 3817.2 |
| 20867.5 | 42.5° | 18088.2 | 13613.3 | 4043.1 | 3802.9 | 3877.3 | 3822.9 | 3685.7 | 3740.0 | 3734.3 | 3471.2 |
| 22814.7 | 45° | 19583.6 | 14356.8 | 3960.2 | 3748.6 | 3771.5 | 3662.8 | 3511.3 | 3525.6 | 3405.5 | 3168.2 |
| 24681.8 | 47.5° | 21070.5 | 15154.5 | 4011.7 | 3702.8 | 3639.9 | 3517.0 | 3399.8 | 3336.9 | 3159.6 | 2982.3 |
| 26471.8 | 50° | 22528.8 | 15992.3 | 4200.4 | 3611.3 | 3459.8 | 3388.3 | 3302.5 | 3191.0 | 3002.3 | 2850.8 |
| 28164.5 | 52.5° | 23881.2 | 16835.8 | 4412.0 | 3459.8 | 3233.9 | 3276.8 | 3222.5 | 3093.8 | 2908.0 | 2753.5 |
| 29765.7 | 55° | 25162.2 | 17679.3 | 4494.9 | 3251.1 | 3022.3 | 3179.6 | 3148.1 | 2910.8 | 2687.8 | 2562.0 |
| 31441.3 | 57.5° | 26557.6 | 18694.4 | 4403.4 | 2985.2 | 2850.8 | 3068.1 | 2948.0 | 2684.9 | 2556.3 | 2461.9 |
| 33623.0 | 60° | 28490.5 | 20287.0 | 4206.1 | 2656.3 | 2687.8 | 2902.2 | 2696.4 | 2587.7 | 2447.6 | 2341.8 |
| 36894.1 | 62.5° | 31701.5 | 23257.9 | 3888.7 | 2330.4 | 2496.2 | 2656.3 | 2576.3 | 2467.6 | 2324.6 | 2221.7 |
| 42487.0 | 65° | 36448.0 | 27386.8 | 3291.1 | 2075.9 | 2281.8 | 2416.1 | 2447.6 | 2338.9 | 2190.3 | 2081.6 |
| 47387.9 | 67.5° | 40451.1 | 29977.3 | 2490.5 | 1864.3 | 2061.6 | 2221.7 | 2310.3 | 2204.6 | 2047.3 | 1941.5 |
| 48534.5 | 70° | 40230.9 | 28095.9 | 1901.5 | 1655.6 | 1867.2 | 2030.1 | 2144.5 | 2061.6 | 1892.9 | 1792.8 |
| 44085.3 | 72.5° | 35733.2 | 23503.8 | 1538.3 | 1444.0 | 1669.9 | 1830.0 | 1967.2 | 1904.3 | 1732.8 | 1635.5 |
| 32296.3 | 75° | 26251.6 | 16684.3 | 1229.5 | 1229.5 | 1424.0 | 1621.2 | 1772.8 | 1732.8 | 1575.5 | 1506.9 |
| 13559.0 | 77.5° | 11065.7 | 6999.7 | 963.6 | 1020.8 | 1183.8 | 1392.5 | 1581.2 | 1595.5 | 1458.3 | 1544.0 |
| 3585.6 | 80° | 2942.3 | 1930.1 | 734.9 | 803.5 | 929.3 | 1149.5 | 1375.3 | 1369.6 | 1220.9 | 1140.9 |
| 1332.5 | 82.5° | 1120.9 | 760.6 | 523.3 | 566.1 | 671.9 | 880.7 | 1089.4 | 1123.7 | 975.0 | 843.5 |
| 523.3 | 85° | 431.8 | 326.0 | 323.1 | 340.3 | 391.7 | 583.3 | 823.5 | 852.1 | 734.9 | 623.3 |
| 145.8 | 87.5° | 111.5 | 97.2 | 120.1 | 114.4 | 180.1 | 311.7 | 471.8 | 488.9 | 448.9 | 260.2 |
| 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° |
|--------|
| 7900.4 |
| 7537.2 |
| 6985.4 |
| 6482.1 |
| 6179.0 |
| 6093.3 |
| 6161.9 |
| 6259.1 |
| 6259.1 |
| 6116.1 |
| 5850.2 |
| 5501.4 |
| 5098.2 |
| 4652.1 |
| 4260.4 |
| 4083.1 |
| 3822.9 |
| 3468.4 |
| 3176.7 |
| 2982.3 |
| 2839.3 |
| 2756.4 |
| 2550.5 |
| 2453.3 |
| 2336.1 |
| 2221.7 |
| 2087.3 |
| 1944.4 |
| 1801.4 |
| 1635.5 |
| 1486.9 |
| 1401.1 |
| 1060.8 |
| 843.5 |
| 643.4 |
| 371.7 |
| 0.0 |

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