

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: McGRAW-EDISON

Report Number: P954760

Luminaire Tested: **GALN-SB7D-930-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7D-930-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51682 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

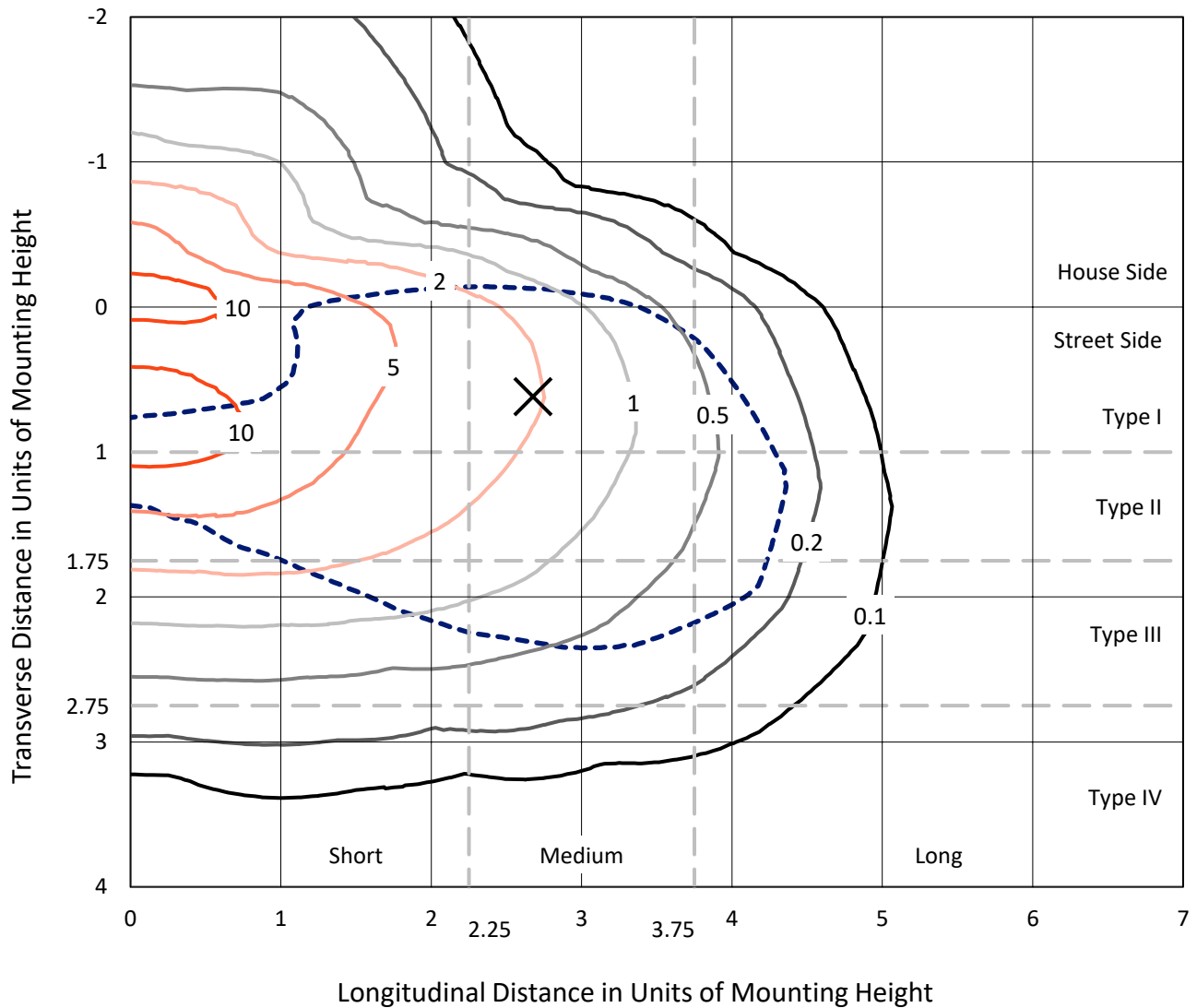
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

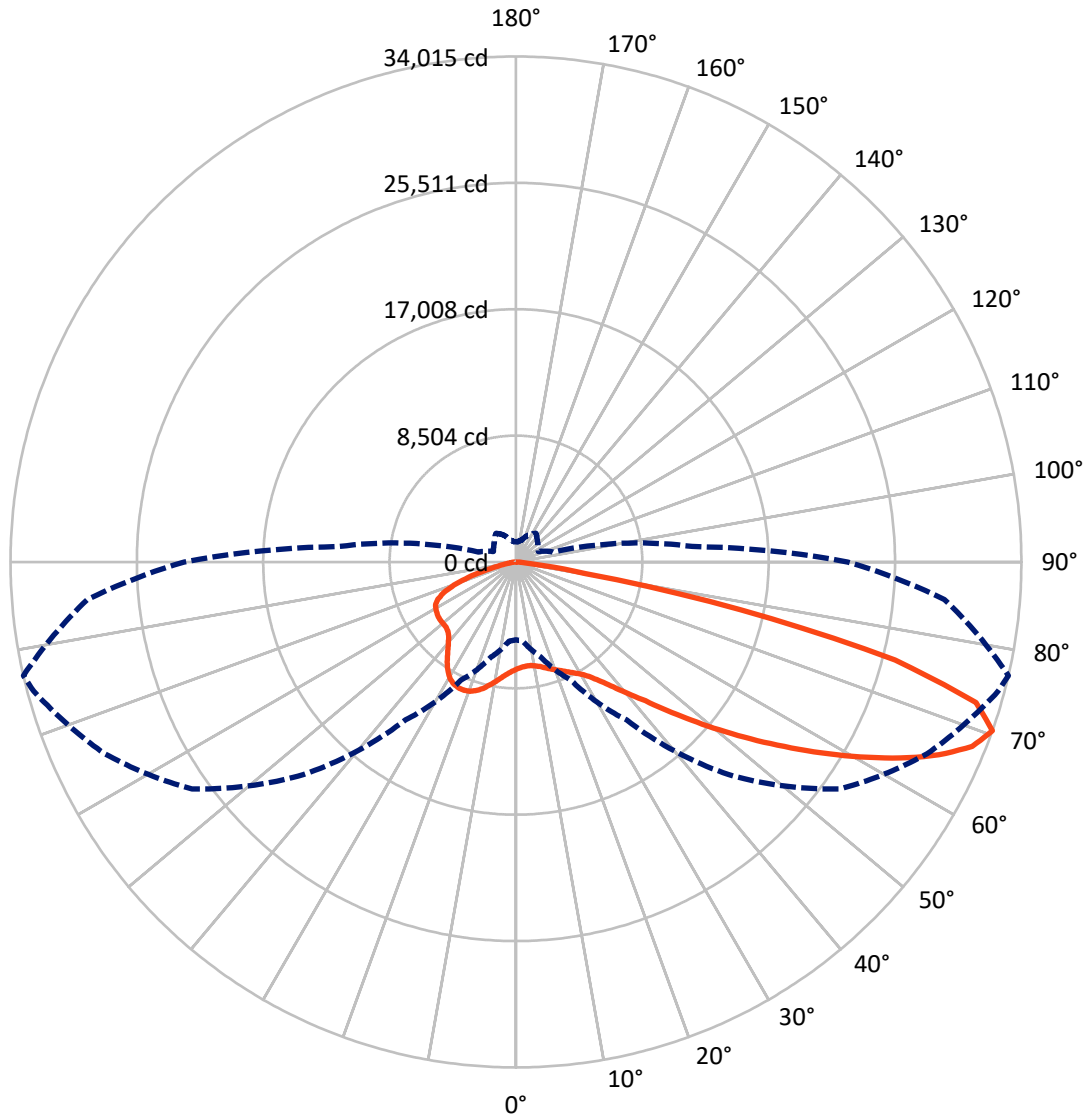
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11317.6 | 0.0 | 11317.6 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 40364.4 | 0.0 | 40364.4 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 51682.0 | 0.0 | 51682.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 687.6 | 1.3 |
| 10°-20° | 1984.6 | 3.8 |
| 20°-30° | 3394.0 | 6.6 |
| 30°-40° | 5457.9 | 10.6 |
| 40°-50° | 8521.2 | 16.5 |
| 50°-60° | 11382.3 | 22.0 |
| 60°-70° | 12131.7 | 23.5 |
| 70°-80° | 7468.2 | 14.5 |
| 80°-90° | 654.4 | 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° | 51682.0 | 100.0 |
| 0°-180° | 51682.0 | 100.0 |

Coefficient of Utilization



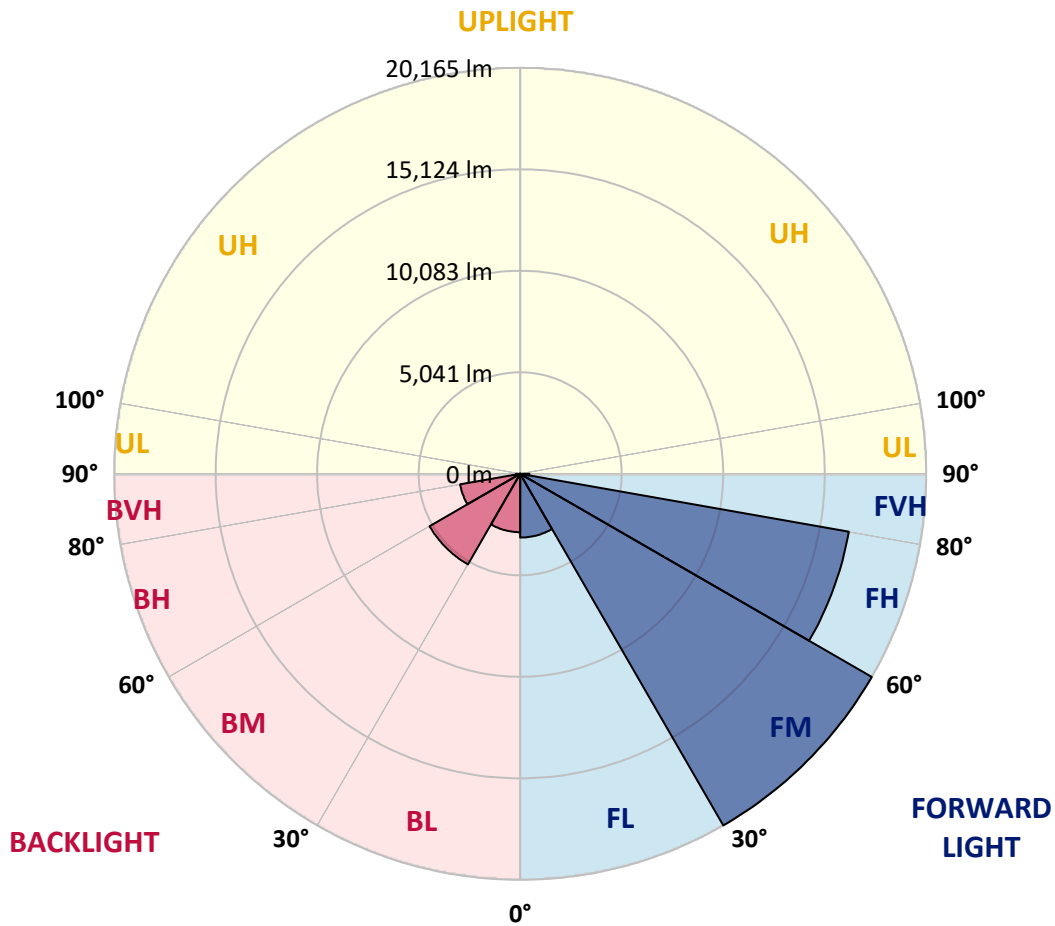
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3166.4 | 6.1 | | | |
| FM (30°-60°) | 20165.2 | 39.0 | | | |
| FH (60°-80°) | 16575.3 | 32.1 | | | G5 |
| FVH (80°-90°) | 457.6 | 0.9 | | | G3/500 |
| BL (0°-30°) | 2899.9 | 5.6 | B4/5000 | | |
| BM (30°-60°) | 5196.1 | 10.1 | B4/8500 | | |
| BH (60°-80°) | 3024.7 | 5.9 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 196.8 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7210.1 | 7210.1 | 7210.1 | 7210.1 | 7210.1 | 7210.1 | 7210.1 | 7210.1 | 7210.1 | 7210.1 |
| 2.5° | 6646.3 | 6643.7 | 6678.1 | 6688.7 | 6752.2 | 6797.2 | 6881.9 | 6971.9 | 7088.4 | 7101.6 |
| 5° | 6262.5 | 6262.5 | 6302.2 | 6344.6 | 6426.6 | 6516.6 | 6646.3 | 6802.5 | 7003.7 | 7035.4 |
| 7.5° | 5937.0 | 5958.1 | 5992.5 | 6074.6 | 6169.9 | 6299.6 | 6498.1 | 6720.4 | 6985.1 | 7035.4 |
| 10° | 5674.9 | 5698.7 | 5741.1 | 5807.3 | 5950.2 | 6130.2 | 6389.6 | 6675.4 | 7030.1 | 7109.5 |
| 12.5° | 5592.9 | 5616.7 | 5640.5 | 5690.8 | 5823.1 | 6034.9 | 6344.6 | 6696.6 | 7138.6 | 7218.1 |
| 15° | 5783.4 | 5812.6 | 5794.0 | 5780.8 | 5849.6 | 6042.8 | 6365.8 | 6773.4 | 7273.6 | 7387.5 |
| 17.5° | 6222.8 | 6233.4 | 6191.1 | 6066.7 | 6056.1 | 6159.3 | 6466.3 | 6879.3 | 7443.0 | 7567.4 |
| 20° | 6932.2 | 6913.7 | 6826.3 | 6580.2 | 6439.9 | 6418.7 | 6638.4 | 7038.1 | 7617.7 | 7750.1 |
| 22.5° | 7895.7 | 7874.5 | 7699.8 | 7310.7 | 6998.4 | 6791.9 | 6887.2 | 7244.5 | 7813.6 | 7961.8 |
| 25° | 9097.3 | 9068.2 | 8811.5 | 8282.1 | 7797.7 | 7286.9 | 7226.0 | 7517.1 | 8054.5 | 8192.1 |
| 27.5° | 10500.2 | 10476.4 | 10198.4 | 9499.7 | 8800.9 | 7964.5 | 7646.8 | 7837.4 | 8305.9 | 8462.1 |
| 30° | 12008.9 | 12077.7 | 11585.4 | 10833.7 | 9949.6 | 8848.5 | 8213.3 | 8231.8 | 8631.5 | 8771.8 |
| 32.5° | 13782.3 | 13901.4 | 13308.5 | 12355.7 | 11148.7 | 9809.4 | 8927.9 | 8782.4 | 9105.3 | 9221.7 |
| 35° | 15539.9 | 15674.8 | 15182.5 | 14129.1 | 12739.4 | 10942.2 | 9674.4 | 9415.0 | 9735.2 | 9862.3 |
| 37.5° | 17059.2 | 17239.2 | 16985.1 | 16069.2 | 14441.4 | 12308.0 | 10648.4 | 10158.7 | 10510.8 | 10669.6 |
| 40° | 18258.2 | 18533.5 | 18514.9 | 17943.2 | 16447.7 | 13965.0 | 11884.5 | 11077.2 | 11474.2 | 11646.3 |
| 42.5° | 19232.3 | 19470.5 | 19676.9 | 19647.8 | 18541.4 | 15846.9 | 13337.6 | 12271.0 | 12572.7 | 12771.2 |
| 45° | 19904.6 | 20158.7 | 20603.3 | 21082.4 | 20555.7 | 17861.2 | 15002.5 | 13687.0 | 13962.3 | 14261.4 |
| 47.5° | 20505.4 | 20793.9 | 21370.9 | 22130.6 | 22265.6 | 19883.4 | 16826.2 | 15336.0 | 15587.5 | 15897.2 |
| 50° | 20558.3 | 20807.2 | 21701.8 | 22779.1 | 23480.5 | 21826.2 | 18784.9 | 17186.2 | 17421.8 | 17752.6 |
| 52.5° | 19279.9 | 19671.6 | 21233.3 | 22760.6 | 24039.0 | 23451.4 | 20730.4 | 19110.5 | 19375.2 | 19772.2 |
| 55° | 14965.5 | 15539.9 | 19859.6 | 22051.2 | 23840.5 | 24502.2 | 22580.6 | 21156.5 | 21495.3 | 21910.9 |
| 57.5° | 12890.3 | 13141.8 | 15764.8 | 20759.5 | 22935.2 | 24774.8 | 24142.2 | 23223.8 | 23769.0 | 24224.3 |
| 60° | 11585.4 | 11794.5 | 13345.6 | 18750.5 | 21744.1 | 24343.4 | 25349.2 | 25150.7 | 26093.0 | 26635.6 |
| 62.5° | 10187.9 | 10386.4 | 11797.2 | 15656.3 | 20219.5 | 23626.1 | 26111.5 | 26929.4 | 28475.2 | 29068.1 |
| 65° | 8800.9 | 8970.3 | 10322.8 | 13155.0 | 18282.0 | 22908.8 | 26505.9 | 28467.2 | 30680.0 | 31294.1 |
| 67.5° | 7255.1 | 7395.4 | 8673.8 | 11098.4 | 15926.3 | 21926.8 | 26701.8 | 29676.9 | 32599.0 | 33125.7 |
| 70° | 5235.5 | 5344.1 | 6664.9 | 8777.1 | 12969.7 | 20238.1 | 26622.4 | 30534.4 | 33594.2 | 34015.1 |
| 72.5° | 2474.8 | 2572.8 | 4123.8 | 5698.7 | 9160.9 | 16950.6 | 25015.7 | 29854.2 | 32583.1 | 32374.0 |
| 75° | 1320.8 | 1405.5 | 2369.0 | 3126.0 | 4838.5 | 11619.8 | 20471.0 | 25717.1 | 27360.8 | 26344.4 |
| 77.5° | 894.6 | 960.8 | 1466.4 | 1876.6 | 2210.1 | 5516.1 | 13157.7 | 17805.6 | 17130.6 | 15452.5 |
| 80° | 709.4 | 778.2 | 1201.7 | 1270.5 | 1069.3 | 1993.1 | 5436.7 | 8242.4 | 5921.1 | 4735.3 |
| 82.5° | 545.3 | 622.0 | 1011.1 | 921.1 | 582.3 | 817.9 | 1582.8 | 2607.2 | 1516.7 | 1154.0 |
| 85° | 333.5 | 415.6 | 794.1 | 587.6 | 328.2 | 373.2 | 537.3 | 725.2 | 463.2 | 386.4 |
| 87.5° | 169.4 | 238.2 | 402.3 | 214.4 | 148.2 | 87.3 | 142.9 | 142.9 | 121.8 | 105.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P954760
 CATALOG NUMBER: GALN-SB7D-930-U-T3R

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7210.1 | 0° | 7210.1 | 7210.1 | 7210.1 | 7210.1 | 7210.1 | 7210.1 | 7210.1 | 7210.1 | 7210.1 | 7210.1 |
| 7173.1 | 2.5° | 7236.6 | 7289.5 | 7379.5 | 7464.2 | 7530.4 | 7593.9 | 7657.4 | 7691.8 | 7702.4 | 7744.8 |
| 7212.8 | 5° | 7321.3 | 7419.2 | 7593.9 | 7758.0 | 7861.2 | 7924.8 | 7969.8 | 7996.2 | 8001.5 | 8014.8 |
| 7321.3 | 7.5° | 7477.4 | 7633.6 | 7877.1 | 8041.2 | 8118.0 | 8112.7 | 8094.2 | 8028.0 | 8001.5 | 7977.7 |
| 7480.1 | 10° | 7697.1 | 7903.6 | 8202.7 | 8316.5 | 8268.9 | 8141.8 | 7977.7 | 7784.5 | 7694.5 | 7607.1 |
| 7697.1 | 12.5° | 7969.8 | 8231.8 | 8525.6 | 8520.3 | 8284.7 | 7959.2 | 7578.0 | 7281.6 | 7093.6 | 6958.7 |
| 7964.5 | 15° | 8300.6 | 8602.4 | 8827.4 | 8647.4 | 8131.2 | 7546.3 | 6987.8 | 6601.3 | 6431.9 | 6283.7 |
| 8234.5 | 17.5° | 8642.1 | 8965.0 | 9068.2 | 8607.7 | 7744.8 | 6934.8 | 6302.2 | 5997.8 | 5831.1 | 5751.7 |
| 8525.6 | 20° | 8975.6 | 9295.9 | 9211.2 | 8380.0 | 7157.2 | 6241.4 | 5677.6 | 5510.8 | 5476.4 | 5494.9 |
| 8808.8 | 22.5° | 9327.6 | 9613.5 | 9240.3 | 7940.7 | 6408.1 | 5532.0 | 5222.3 | 5227.6 | 5304.4 | 5359.9 |
| 9105.3 | 25° | 9687.6 | 9880.8 | 9163.5 | 7305.4 | 5603.5 | 5010.6 | 4933.8 | 5018.5 | 5169.4 | 5277.9 |
| 9438.8 | 27.5° | 10034.3 | 10119.0 | 8996.8 | 6519.3 | 4912.6 | 4637.3 | 4650.6 | 4825.3 | 5052.9 | 5203.8 |
| 9843.8 | 30° | 10426.1 | 10330.8 | 8676.5 | 5635.2 | 4433.5 | 4317.1 | 4428.2 | 4632.0 | 4859.7 | 4994.7 |
| 10354.6 | 32.5° | 10868.1 | 10513.4 | 8168.3 | 4817.3 | 4094.7 | 4060.3 | 4243.0 | 4375.3 | 4475.9 | 4515.6 |
| 11032.2 | 35° | 11418.7 | 10770.2 | 7517.1 | 4243.0 | 3790.3 | 3872.4 | 4047.1 | 3980.9 | 3941.2 | 3920.0 |
| 11942.7 | 37.5° | 12133.3 | 11116.9 | 6754.8 | 3869.7 | 3544.2 | 3737.4 | 3808.9 | 3602.4 | 3446.2 | 3369.5 |
| 13046.5 | 40° | 12993.6 | 11625.1 | 6021.7 | 3581.2 | 3388.0 | 3620.9 | 3496.5 | 3247.7 | 3049.2 | 2940.7 |
| 14287.9 | 42.5° | 13949.1 | 12157.1 | 5404.9 | 3364.2 | 3300.7 | 3525.6 | 3266.3 | 2969.8 | 2649.5 | 2615.1 |
| 15767.5 | 45° | 14952.2 | 12705.0 | 4984.1 | 3197.4 | 3258.3 | 3443.6 | 3133.9 | 2654.8 | 2427.2 | 2567.5 |
| 17252.4 | 47.5° | 15955.4 | 13207.9 | 4730.0 | 3073.0 | 3237.1 | 3351.0 | 3017.4 | 2480.1 | 2318.7 | 2522.5 |
| 18843.2 | 50° | 17072.4 | 13657.9 | 4616.2 | 2983.0 | 3213.3 | 3313.9 | 2842.8 | 2435.1 | 2204.9 | 2339.8 |
| 20489.5 | 52.5° | 18181.4 | 14007.3 | 4531.5 | 2893.0 | 3178.9 | 3284.8 | 2758.1 | 2382.2 | 2067.2 | 2075.2 |
| 22146.5 | 55° | 19287.8 | 14234.9 | 4438.8 | 2773.9 | 3102.1 | 3221.3 | 2750.1 | 2324.0 | 1964.0 | 1926.9 |
| 23898.7 | 57.5° | 20468.3 | 14364.6 | 4325.0 | 2641.6 | 2969.8 | 3059.8 | 2742.2 | 2279.0 | 1932.2 | 1871.3 |
| 25690.7 | 60° | 21670.0 | 14555.2 | 4176.8 | 2480.1 | 2792.5 | 2866.6 | 2723.6 | 2263.1 | 1913.7 | 1810.5 |
| 27379.4 | 62.5° | 22747.3 | 14621.4 | 3999.4 | 2326.6 | 2564.8 | 2676.0 | 2683.9 | 2249.9 | 1863.4 | 1686.1 |
| 28782.2 | 65° | 23454.0 | 14335.5 | 3689.8 | 2151.9 | 2318.7 | 2480.1 | 2607.2 | 2204.9 | 1773.4 | 1596.1 |
| 29475.7 | 67.5° | 23424.9 | 13520.3 | 3205.4 | 1926.9 | 2080.5 | 2263.1 | 2496.0 | 2128.1 | 1664.9 | 1484.9 |
| 28951.6 | 70° | 22334.4 | 11911.0 | 2591.3 | 1664.9 | 1818.4 | 2030.2 | 2353.1 | 2014.3 | 1535.2 | 1363.1 |
| 25743.6 | 72.5° | 19155.5 | 9322.3 | 1881.9 | 1357.9 | 1514.0 | 1789.3 | 2167.8 | 1876.6 | 1402.8 | 1254.6 |
| 19025.8 | 75° | 13684.4 | 5899.9 | 1275.8 | 1042.9 | 1177.9 | 1516.7 | 1937.5 | 1715.2 | 1281.1 | 1259.9 |
| 9528.8 | 77.5° | 6990.4 | 2818.9 | 844.4 | 762.3 | 820.5 | 1196.4 | 1627.8 | 1532.5 | 1299.6 | 1040.2 |
| 2710.4 | 80° | 2273.7 | 1040.2 | 532.0 | 518.8 | 545.3 | 796.7 | 1259.9 | 1257.3 | 984.6 | 706.7 |
| 656.4 | 82.5° | 725.2 | 447.3 | 346.7 | 333.5 | 320.3 | 500.3 | 878.8 | 995.2 | 664.4 | 447.3 |
| 235.6 | 85° | 288.5 | 267.3 | 203.8 | 187.9 | 135.0 | 235.6 | 460.6 | 661.7 | 495.0 | 322.9 |
| 60.9 | 87.5° | 105.9 | 105.9 | 55.6 | 39.7 | 29.1 | 79.4 | 124.4 | 198.5 | 283.2 | 166.8 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O

| <u>180°</u> |
|-------------|
| 7210.1 |
| 7768.6 |
| 8035.9 |
| 7983.0 |
| 7580.7 |
| 6926.9 |
| 6267.8 |
| 5775.5 |
| 5487.0 |
| 5373.2 |
| 5307.0 |
| 5240.8 |
| 5026.4 |
| 4536.8 |
| 3941.2 |
| 3388.0 |
| 2948.6 |
| 2649.5 |
| 2641.6 |
| 2617.8 |
| 2440.4 |
| 2130.7 |
| 1953.4 |
| 1879.3 |
| 1818.4 |
| 1686.1 |
| 1596.1 |
| 1492.8 |
| 1379.0 |
| 1246.7 |
| 1188.5 |
| 926.4 |
| 624.7 |
| 444.7 |
| 330.9 |
| 164.1 |
| 0.0 |

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