

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: P943385

Luminaire Tested: **GALN-SB7D-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-830-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64432 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

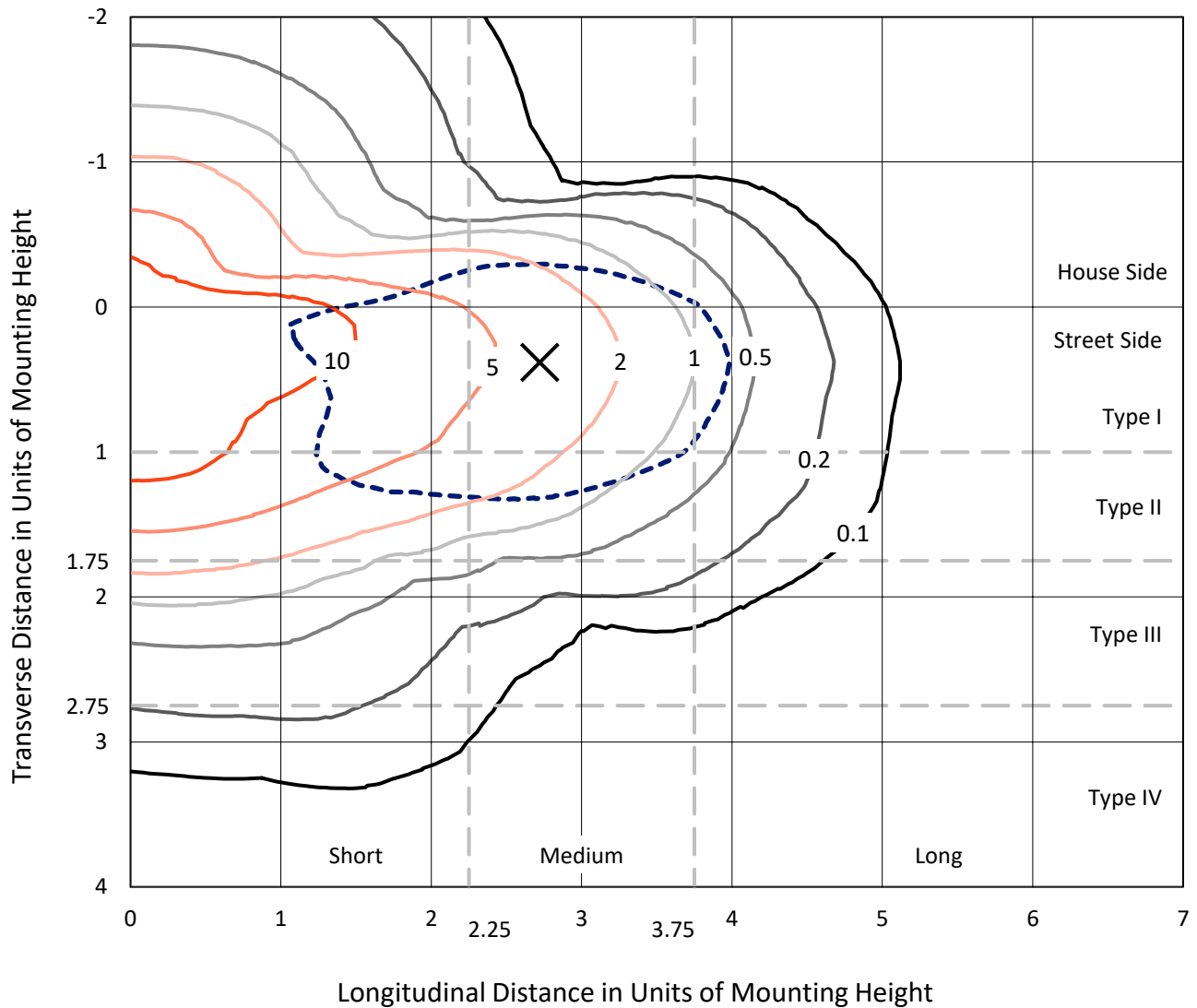
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

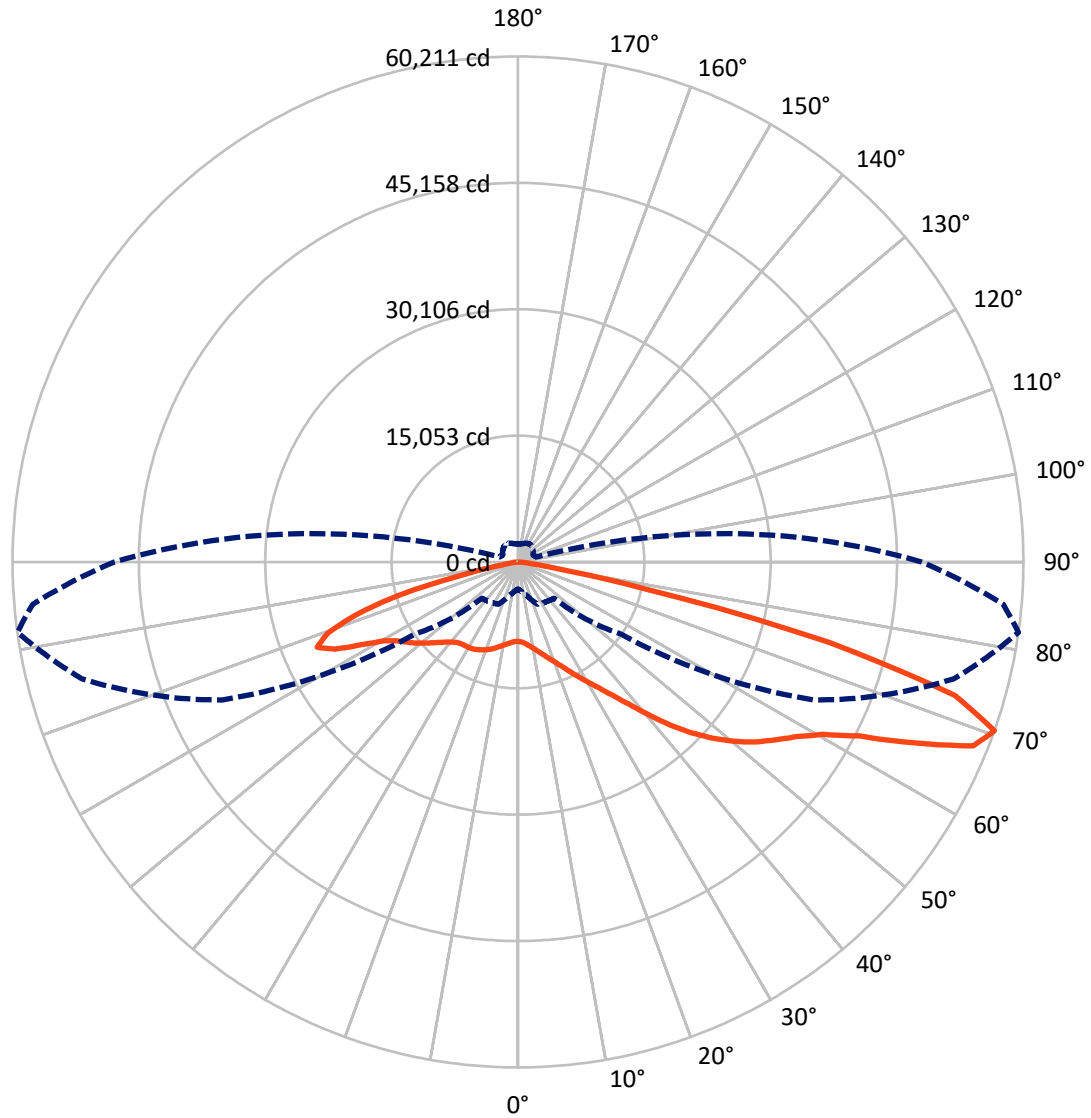
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 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 | 15884.1 | 0.0 | 15884.1 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 48547.9 | 0.0 | 48547.9 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 64432.0 | 0.0 | 64432.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 891.9 | 1.4 |
| 10°-20° | 2562.5 | 4.0 |
| 20°-30° | 4286.9 | 6.7 |
| 30°-40° | 6697.2 | 10.4 |
| 40°-50° | 10666.1 | 16.6 |
| 50°-60° | 14843.1 | 23.0 |
| 60°-70° | 15526.6 | 24.1 |
| 70°-80° | 8115.0 | 12.6 |
| 80°-90° | 842.7 | 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° | 64432.0 | 100.0 |
| 0°-180° | 64432.0 | 100.0 |

Coefficient of Utilization



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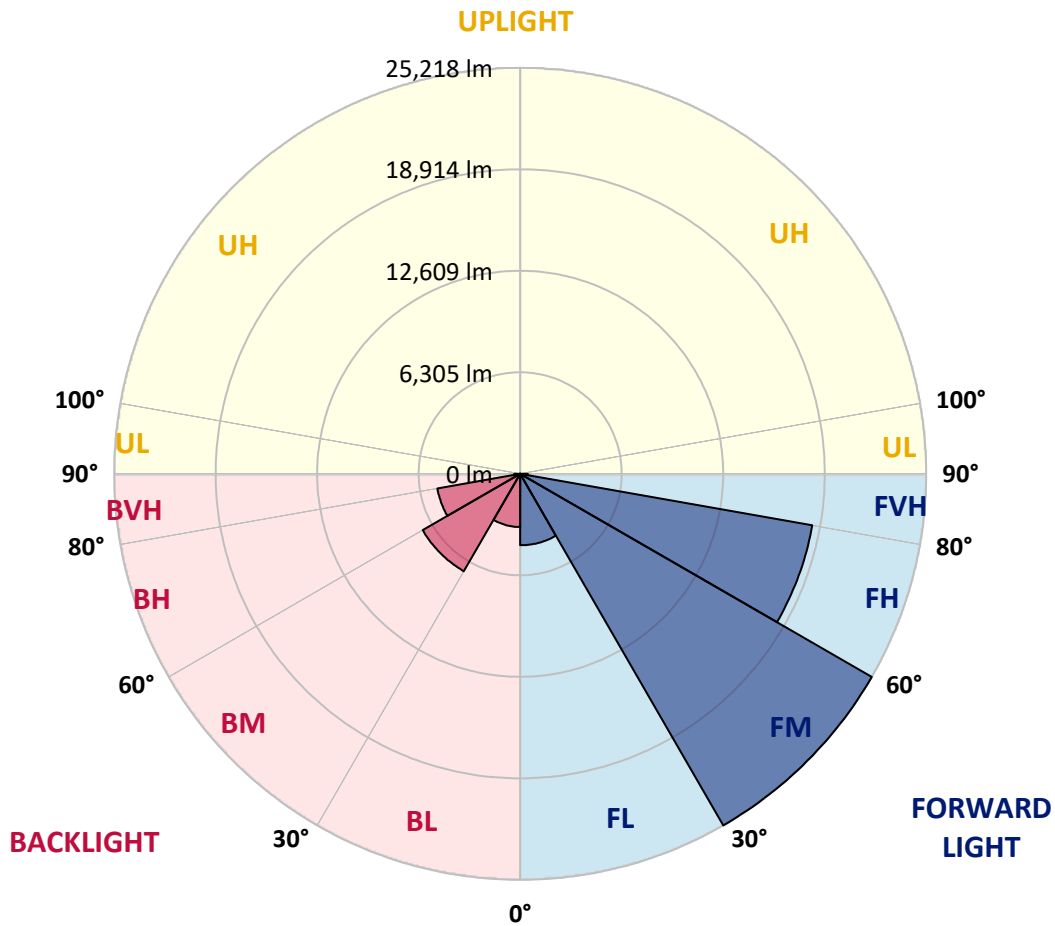
CATALOG NUMBER: GALN-SB7D-830-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 4436.9 | 6.9 | | | |
| FM (30°-60°) | 25218.0 | 39.1 | | | |
| FH (60°-80°) | 18421.3 | 28.6 | | | G5 |
| FVH (80°-90°) | 471.7 | 0.7 | | | G3/500 |
| BL (0°-30°) | 3304.5 | 5.1 | B4/5000 | | |
| BM (30°-60°) | 6988.4 | 10.8 | B4/8500 | | |
| BH (60°-80°) | 5220.3 | 8.1 | B5 | | G5 |
| BVH (80°-90°) | 370.9 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9446.5 | 9446.5 | 9446.5 | 9446.5 | 9446.5 | 9446.5 | 9446.5 | 9446.5 | 9446.5 | 9446.5 |
| 2.5° | 9672.2 | 9726.9 | 9709.8 | 9692.7 | 9692.7 | 9668.8 | 9665.3 | 9631.2 | 9603.8 | 9559.4 |
| 5° | 9795.3 | 9853.4 | 9846.6 | 9860.2 | 9904.7 | 9914.9 | 9925.2 | 9904.7 | 9850.0 | 9795.3 |
| 7.5° | 9685.9 | 9750.8 | 9771.3 | 9853.4 | 9990.1 | 10113.2 | 10205.5 | 10243.2 | 10191.9 | 10113.2 |
| 10° | 9316.6 | 9388.4 | 9460.2 | 9655.1 | 9897.8 | 10188.4 | 10434.6 | 10581.6 | 10571.4 | 10496.2 |
| 12.5° | 8567.9 | 8643.1 | 8796.9 | 9176.4 | 9620.9 | 10133.7 | 10591.9 | 10899.6 | 11005.6 | 10950.9 |
| 15° | 7969.6 | 8034.5 | 8150.8 | 8540.5 | 9118.3 | 9897.8 | 10650.0 | 11248.3 | 11518.4 | 11487.6 |
| 17.5° | 7952.5 | 7979.8 | 8051.6 | 8236.2 | 8680.7 | 9528.6 | 10588.5 | 11590.2 | 12106.5 | 12103.1 |
| 20° | 8253.3 | 8263.6 | 8304.6 | 8342.2 | 8595.2 | 9248.2 | 10431.2 | 11874.0 | 12766.3 | 12766.3 |
| 22.5° | 8670.4 | 8663.6 | 8704.6 | 8670.4 | 8793.5 | 9224.3 | 10332.0 | 12123.6 | 13501.4 | 13556.1 |
| 25° | 9296.1 | 9261.9 | 9251.7 | 9173.0 | 9197.0 | 9446.5 | 10441.4 | 12407.3 | 14373.2 | 14486.1 |
| 27.5° | 10130.3 | 10075.6 | 10038.0 | 9856.8 | 9795.3 | 9904.7 | 10776.5 | 12749.2 | 15344.2 | 15539.1 |
| 30° | 11217.5 | 11118.4 | 11063.7 | 10749.2 | 10526.9 | 10544.0 | 11282.5 | 13204.0 | 16359.6 | 16674.2 |
| 32.5° | 12701.4 | 12547.5 | 12400.5 | 11884.2 | 11477.4 | 11344.0 | 11935.5 | 13833.0 | 17460.5 | 17963.1 |
| 35° | 14363.0 | 14239.9 | 14082.6 | 13286.0 | 12660.3 | 12352.6 | 12817.6 | 14711.7 | 18749.5 | 19546.1 |
| 37.5° | 15963.0 | 15857.1 | 15932.3 | 14858.7 | 14051.9 | 13604.0 | 13973.2 | 15891.2 | 20339.3 | 21515.4 |
| 40° | 17617.8 | 17535.8 | 17546.0 | 16520.3 | 15580.1 | 15077.5 | 15375.0 | 17371.6 | 22161.6 | 23857.4 |
| 42.5° | 19416.2 | 19354.6 | 19149.5 | 18240.1 | 17183.6 | 16715.2 | 16988.7 | 19081.1 | 24117.2 | 26524.2 |
| 45° | 21429.9 | 21392.3 | 21200.9 | 20158.1 | 18947.8 | 18421.3 | 18790.5 | 20968.4 | 26083.1 | 29033.7 |
| 47.5° | 23170.2 | 23200.9 | 23177.0 | 22298.3 | 21043.6 | 20270.9 | 20712.0 | 22937.7 | 27912.2 | 31392.7 |
| 50° | 24007.8 | 24168.5 | 24404.4 | 24130.9 | 23351.4 | 22565.0 | 22650.5 | 24838.6 | 29655.9 | 33604.8 |
| 52.5° | 23570.2 | 23874.5 | 24517.2 | 24954.9 | 25255.7 | 25091.6 | 24862.5 | 26725.9 | 31297.0 | 35601.4 |
| 55° | 21939.4 | 22366.7 | 23433.4 | 24489.9 | 26025.0 | 27218.2 | 27519.1 | 28818.3 | 32897.1 | 37358.8 |
| 57.5° | 18968.3 | 19662.3 | 20619.6 | 22756.5 | 25341.2 | 28247.3 | 30616.6 | 31720.9 | 34592.9 | 39235.8 |
| 60° | 13874.1 | 14804.0 | 15993.8 | 19173.4 | 22947.9 | 27696.8 | 33252.6 | 36179.2 | 37003.2 | 41666.6 |
| 62.5° | 8879.0 | 9453.4 | 10547.4 | 13542.4 | 17881.1 | 24876.2 | 34059.5 | 41752.1 | 41088.8 | 45653.1 |
| 65° | 6078.9 | 6448.1 | 7449.9 | 9132.0 | 11559.4 | 18517.0 | 31898.7 | 45930.1 | 47578.0 | 51971.3 |
| 67.5° | 4417.3 | 4697.6 | 5552.4 | 7025.9 | 7531.9 | 10957.7 | 24753.1 | 45738.6 | 53885.9 | 58481.0 |
| 70° | 3220.6 | 3418.9 | 4136.9 | 5552.4 | 5795.1 | 6096.0 | 14995.5 | 38880.2 | 53749.2 | 60211.0 |
| 72.5° | 2386.4 | 2523.2 | 3005.3 | 4307.9 | 4690.8 | 4116.4 | 7422.5 | 28257.6 | 46186.5 | 54460.3 |
| 75° | 1726.6 | 1829.1 | 2184.7 | 3295.9 | 3754.0 | 3135.2 | 3702.7 | 16513.5 | 32216.7 | 38309.2 |
| 77.5° | 1319.7 | 1398.3 | 1630.8 | 2413.8 | 3005.3 | 2352.2 | 2297.5 | 7596.9 | 15275.8 | 15351.0 |
| 80° | 1059.9 | 1111.2 | 1237.7 | 1699.2 | 2304.4 | 1760.8 | 1497.5 | 3066.8 | 4827.5 | 4085.6 |
| 82.5° | 779.5 | 865.0 | 1046.2 | 1193.2 | 1647.9 | 1213.7 | 912.9 | 1548.8 | 1836.0 | 1579.6 |
| 85° | 444.5 | 502.6 | 632.5 | 854.7 | 1053.0 | 741.9 | 523.1 | 687.2 | 854.7 | 700.9 |
| 87.5° | 157.3 | 205.1 | 222.2 | 335.1 | 458.1 | 307.7 | 201.7 | 198.3 | 280.4 | 208.6 |
| 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: GALN-SB7D-830-U-T2

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9446.5 | 0° | 9446.5 | 9446.5 | 9446.5 | 9446.5 | 9446.5 | 9446.5 | 9446.5 | 9446.5 | 9446.5 | 9446.5 |
| 9549.1 | 2.5° | 9514.9 | 9497.8 | 9429.4 | 9337.1 | 9241.4 | 9149.1 | 9118.3 | 9053.4 | 9008.9 | 8985.0 |
| 9771.3 | 5° | 9706.4 | 9651.7 | 9491.0 | 9285.8 | 9070.5 | 8838.0 | 8673.9 | 8523.4 | 8414.0 | 8311.4 |
| 10075.6 | 7.5° | 9979.9 | 9884.2 | 9607.2 | 9248.2 | 8865.3 | 8479.0 | 8191.8 | 7973.0 | 7826.0 | 7730.2 |
| 10431.2 | 10° | 10297.9 | 10150.8 | 9726.9 | 9190.1 | 8598.6 | 8044.8 | 7706.3 | 7518.3 | 7425.9 | 7374.7 |
| 10838.0 | 12.5° | 10663.7 | 10455.1 | 9850.0 | 9056.8 | 8191.8 | 7559.3 | 7326.8 | 7272.1 | 7275.5 | 7278.9 |
| 11350.9 | 15° | 11115.0 | 10824.4 | 9949.1 | 8766.2 | 7661.8 | 7186.6 | 7145.6 | 7234.5 | 7326.8 | 7371.2 |
| 11932.1 | 17.5° | 11624.4 | 11214.1 | 9966.2 | 8287.5 | 7142.2 | 6947.3 | 7077.2 | 7268.7 | 7408.8 | 7470.4 |
| 12581.7 | 20° | 12171.4 | 11610.7 | 9843.1 | 7610.6 | 6714.8 | 6752.4 | 6984.9 | 7231.1 | 7384.9 | 7463.6 |
| 13323.6 | 22.5° | 12797.1 | 12034.7 | 9549.1 | 6899.4 | 6366.1 | 6540.4 | 6814.0 | 7053.3 | 7214.0 | 7292.6 |
| 14195.4 | 25° | 13511.7 | 12509.9 | 9087.5 | 6301.1 | 6065.2 | 6301.1 | 6574.6 | 6772.9 | 6902.8 | 6974.6 |
| 15169.8 | 27.5° | 14304.9 | 13005.7 | 8472.1 | 5825.9 | 5801.9 | 6054.9 | 6280.6 | 6434.4 | 6502.8 | 6557.5 |
| 16205.8 | 30° | 15101.5 | 13457.0 | 7726.8 | 5466.9 | 5572.9 | 5812.2 | 5972.9 | 6041.3 | 6061.8 | 6072.0 |
| 17361.4 | 32.5° | 15963.0 | 13846.7 | 6943.9 | 5169.4 | 5354.1 | 5576.3 | 5672.0 | 5702.8 | 5607.1 | 5542.1 |
| 18763.2 | 35° | 17005.8 | 14263.8 | 6178.0 | 4933.5 | 5138.7 | 5330.1 | 5360.9 | 5333.5 | 5220.7 | 5087.4 |
| 20520.5 | 37.5° | 18294.8 | 14783.5 | 5566.0 | 4766.0 | 4937.0 | 5063.5 | 5025.8 | 5019.0 | 5029.3 | 4872.0 |
| 22633.4 | 40° | 19874.3 | 15460.5 | 5118.2 | 4636.1 | 4772.8 | 4800.2 | 4694.2 | 4752.3 | 4803.6 | 4564.3 |
| 24951.4 | 42.5° | 21628.2 | 16277.6 | 4834.4 | 4547.2 | 4636.1 | 4571.1 | 4407.0 | 4472.0 | 4465.1 | 4150.6 |
| 27279.7 | 45° | 23416.3 | 17166.5 | 4735.2 | 4482.2 | 4509.6 | 4379.7 | 4198.5 | 4215.6 | 4072.0 | 3788.2 |
| 29512.3 | 47.5° | 25194.2 | 18120.4 | 4796.8 | 4427.5 | 4352.3 | 4205.3 | 4065.1 | 3989.9 | 3777.9 | 3566.0 |
| 31652.6 | 50° | 26937.8 | 19122.1 | 5022.4 | 4318.1 | 4136.9 | 4051.4 | 3948.9 | 3815.5 | 3589.9 | 3408.7 |
| 33676.6 | 52.5° | 28555.0 | 20130.7 | 5275.4 | 4136.9 | 3866.8 | 3918.1 | 3853.1 | 3699.3 | 3477.1 | 3292.4 |
| 35591.2 | 55° | 30086.7 | 21139.3 | 5374.6 | 3887.3 | 3613.8 | 3801.9 | 3764.3 | 3480.5 | 3213.8 | 3063.4 |
| 37594.7 | 57.5° | 31755.1 | 22353.0 | 5265.2 | 3569.4 | 3408.7 | 3668.5 | 3524.9 | 3210.4 | 3056.5 | 2943.7 |
| 40203.3 | 60° | 34066.3 | 24257.4 | 5029.3 | 3176.2 | 3213.8 | 3470.2 | 3224.1 | 3094.1 | 2926.6 | 2800.1 |
| 44114.6 | 62.5° | 37905.8 | 27809.7 | 4649.8 | 2786.4 | 2984.7 | 3176.2 | 3080.5 | 2950.5 | 2779.6 | 2656.5 |
| 50802.1 | 65° | 43581.3 | 32746.6 | 3935.2 | 2482.2 | 2728.3 | 2889.0 | 2926.6 | 2796.7 | 2618.9 | 2489.0 |
| 56662.1 | 67.5° | 48367.8 | 35844.2 | 2977.9 | 2229.2 | 2465.1 | 2656.5 | 2762.5 | 2636.0 | 2448.0 | 2321.5 |
| 58033.1 | 70° | 48104.5 | 33594.5 | 2273.6 | 1979.6 | 2232.6 | 2427.4 | 2564.2 | 2465.1 | 2263.3 | 2143.7 |
| 52713.2 | 72.5° | 42726.5 | 28103.7 | 1839.4 | 1726.6 | 1996.7 | 2188.1 | 2352.2 | 2277.0 | 2071.9 | 1955.6 |
| 38617.0 | 75° | 31389.3 | 19949.5 | 1470.1 | 1470.1 | 1702.6 | 1938.5 | 2119.7 | 2071.9 | 1883.8 | 1801.8 |
| 16212.6 | 77.5° | 13231.3 | 8369.6 | 1152.2 | 1220.6 | 1415.4 | 1665.0 | 1890.7 | 1907.8 | 1743.7 | 1846.2 |
| 4287.4 | 80° | 3518.1 | 2307.8 | 878.7 | 960.7 | 1111.2 | 1374.4 | 1644.5 | 1637.7 | 1459.9 | 1364.2 |
| 1593.2 | 82.5° | 1340.2 | 909.4 | 625.7 | 677.0 | 803.5 | 1053.0 | 1302.6 | 1343.6 | 1165.9 | 1008.6 |
| 625.7 | 85° | 516.3 | 389.8 | 386.3 | 406.9 | 468.4 | 697.5 | 984.7 | 1018.8 | 878.7 | 745.3 |
| 174.4 | 87.5° | 133.3 | 116.2 | 143.6 | 136.8 | 215.4 | 372.7 | 564.1 | 584.6 | 536.8 | 311.1 |
| 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> |
|-------------|
| 9446.5 |
| 9012.3 |
| 8352.5 |
| 7750.7 |
| 7388.3 |
| 7285.8 |
| 7367.8 |
| 7484.1 |
| 7484.1 |
| 7313.1 |
| 6995.2 |
| 6578.0 |
| 6096.0 |
| 5562.6 |
| 5094.2 |
| 4882.2 |
| 4571.1 |
| 4147.2 |
| 3798.4 |
| 3566.0 |
| 3395.0 |
| 3295.9 |
| 3049.7 |
| 2933.5 |
| 2793.3 |
| 2656.5 |
| 2495.8 |
| 2324.9 |
| 2153.9 |
| 1955.6 |
| 1777.8 |
| 1675.3 |
| 1268.4 |
| 1008.6 |
| 769.3 |
| 444.5 |
| 0.0 |

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