

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: P954351

Luminaire Tested: **GALN-SB7C-850-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7C-850-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49790 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

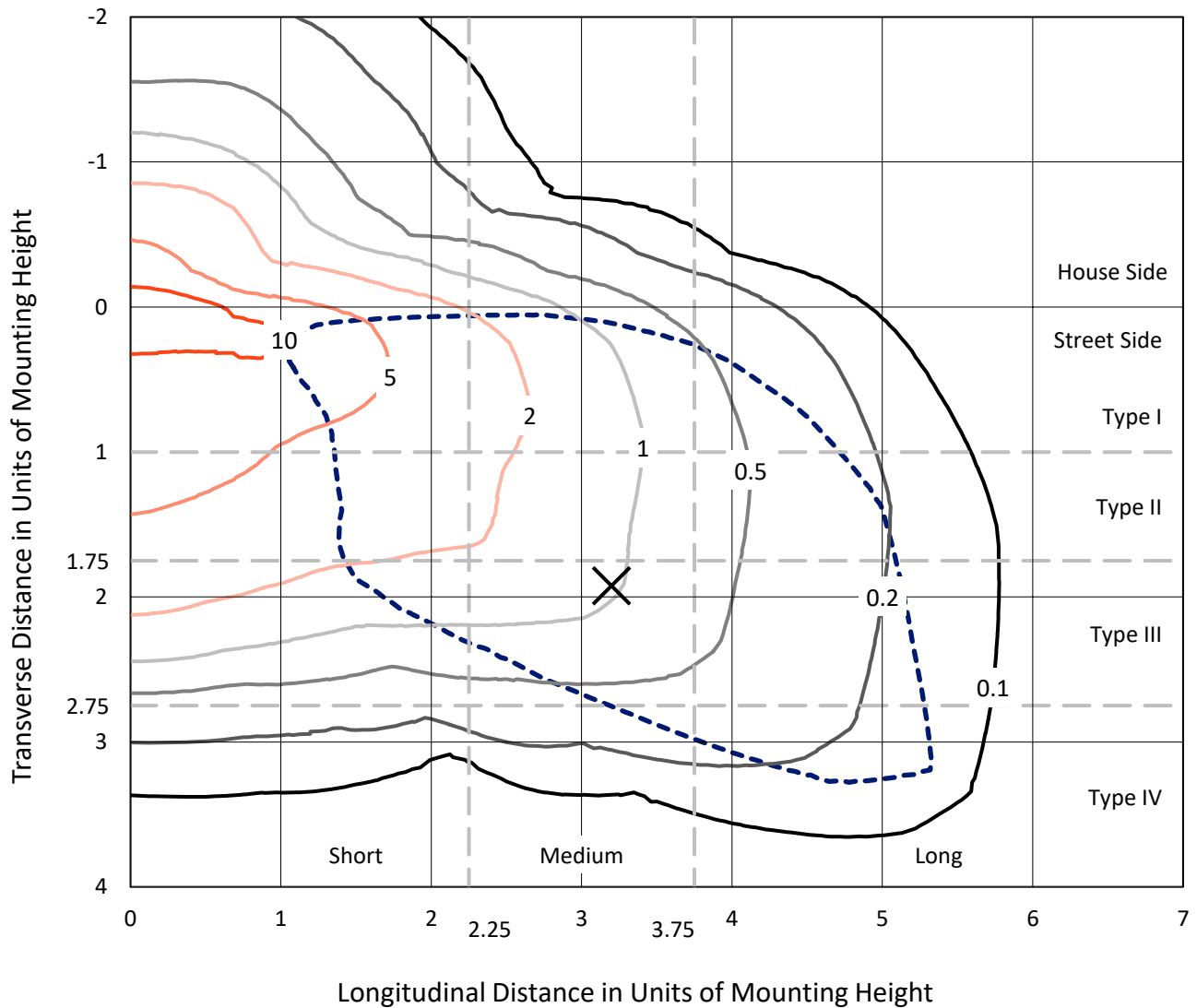
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

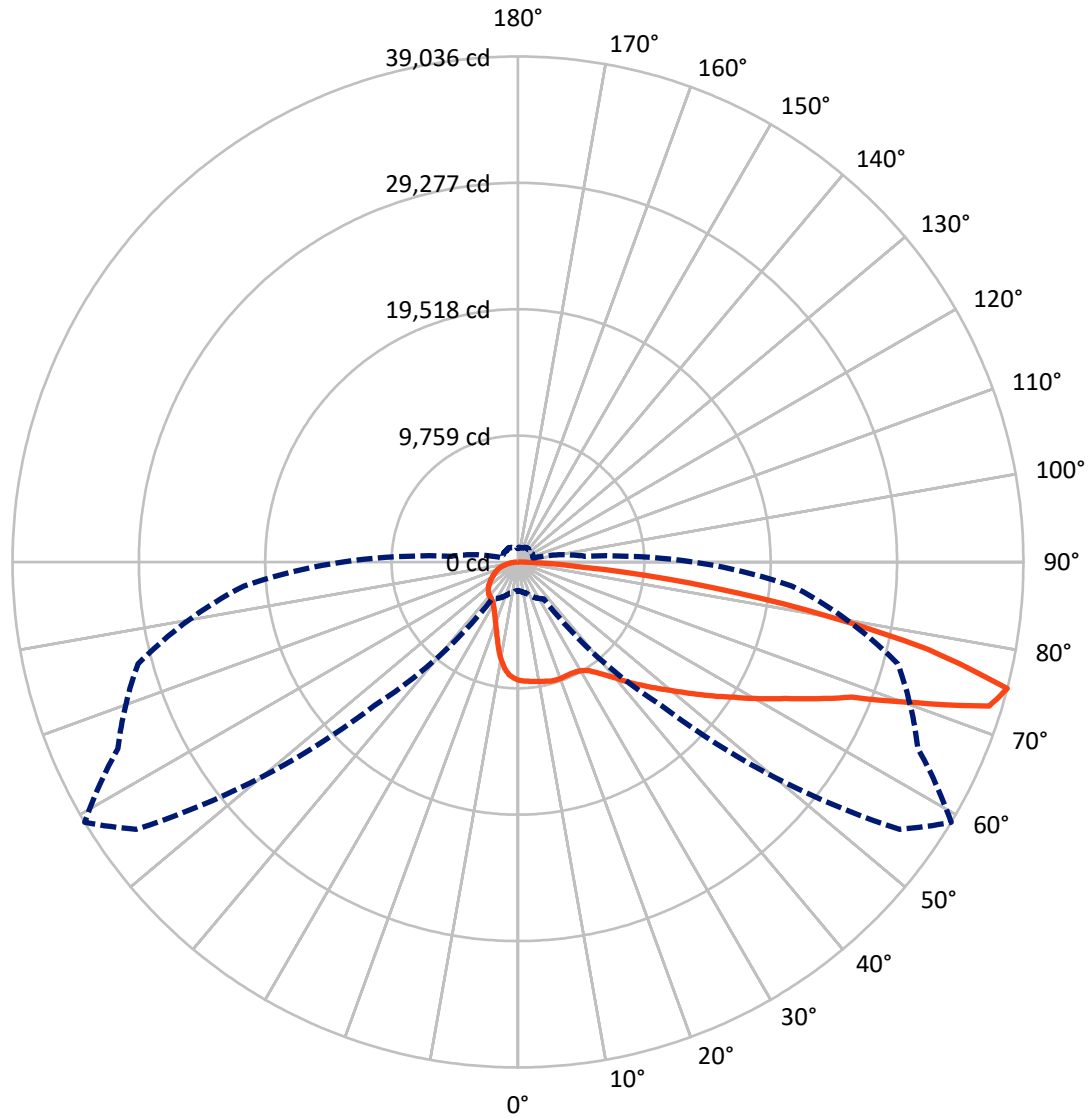
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9338.5 | 0.0 | 9338.5 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 40451.5 | 0.0 | 40451.5 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 49790.0 | 0.0 | 49790.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 819.4 | 1.6 |
| 10°-20° | 2094.6 | 4.2 |
| 20°-30° | 3181.5 | 6.4 |
| 30°-40° | 4729.2 | 9.5 |
| 40°-50° | 7033.1 | 14.1 |
| 50°-60° | 9546.6 | 19.2 |
| 60°-70° | 11654.8 | 23.4 |
| 70°-80° | 9146.5 | 18.4 |
| 80°-90° | 1584.4 | 3.2 |
| 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° | 49790.0 | 100.0 |
| 0°-180° | 49790.0 | 100.0 |

Coefficient of Utilization



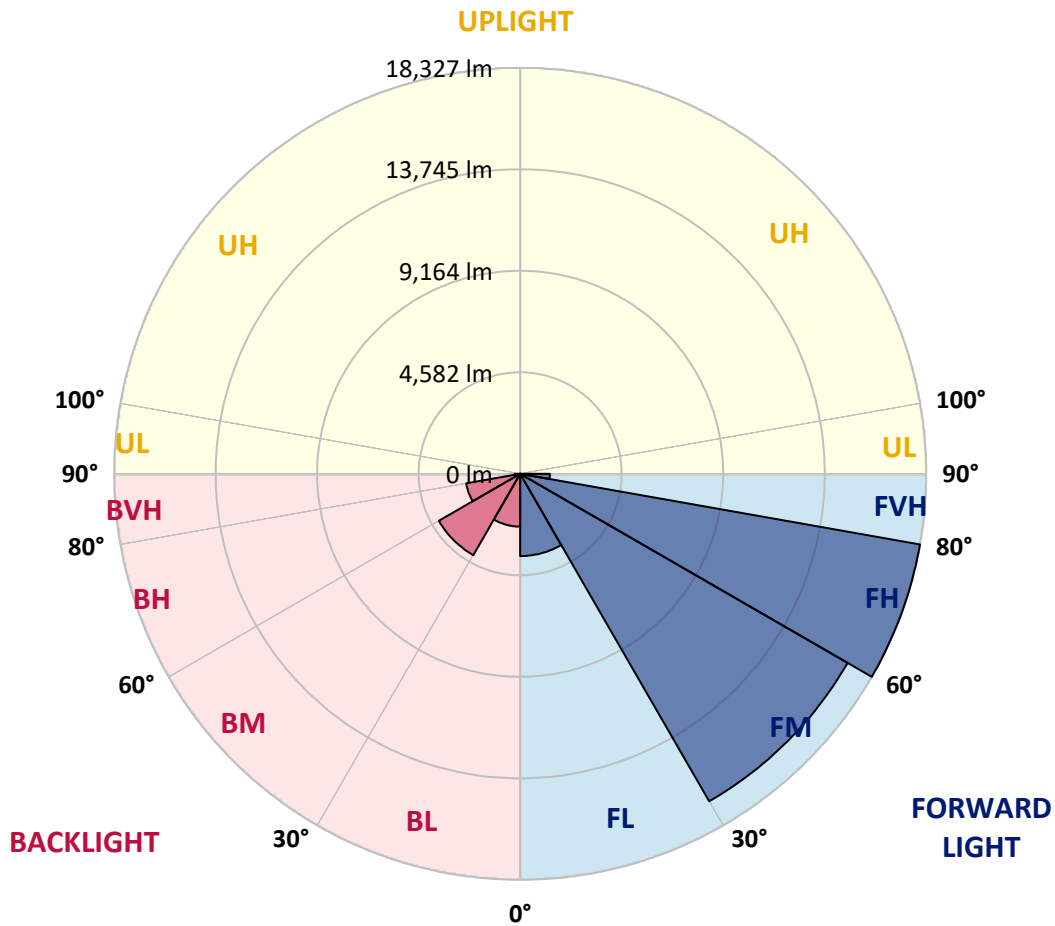
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3712.4 | 7.5 | | | |
| FM (30°-60°) | 17070.1 | 34.3 | | | |
| FH (60°-80°) | 18327.2 | 36.8 | | | G5 |
| FVH (80°-90°) | 1341.9 | 2.7 | | | G5 |
| BL (0°-30°) | 2383.1 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 4238.7 | 8.5 | B3/5000 | | |
| BH (60°-80°) | 2474.1 | 5.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 242.5 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9138.8 | 9138.8 | 9138.8 | 9138.8 | 9138.8 | 9138.8 | 9138.8 | 9138.8 | 9138.8 | 9138.8 |
| 2.5° | 9216.5 | 9184.4 | 9216.5 | 9203.1 | 9197.8 | 9187.1 | 9189.7 | 9208.5 | 9197.8 | 9211.2 |
| 5° | 9154.9 | 9136.2 | 9168.3 | 9160.3 | 9195.1 | 9200.4 | 9235.3 | 9256.7 | 9270.1 | 9272.8 |
| 7.5° | 9053.1 | 9034.4 | 9079.9 | 9117.4 | 9192.4 | 9213.8 | 9286.2 | 9321.0 | 9339.7 | 9371.9 |
| 10° | 8680.8 | 8672.8 | 8785.3 | 8927.2 | 9104.0 | 9213.8 | 9323.7 | 9382.6 | 9412.0 | 9497.8 |
| 12.5° | 8021.9 | 8032.6 | 8180.0 | 8453.2 | 8806.7 | 9160.3 | 9366.5 | 9452.2 | 9497.8 | 9604.9 |
| 15° | 7392.5 | 7389.8 | 7550.5 | 7842.5 | 8338.0 | 8924.6 | 9387.9 | 9535.3 | 9612.9 | 9771.0 |
| 17.5° | 7028.2 | 7017.5 | 7130.0 | 7352.3 | 7813.0 | 8563.0 | 9334.4 | 9580.8 | 9746.8 | 9945.1 |
| 20° | 6961.3 | 6939.8 | 6998.8 | 7108.6 | 7435.4 | 8166.6 | 9195.1 | 9580.8 | 9854.0 | 10111.1 |
| 22.5° | 7205.0 | 7170.2 | 7146.1 | 7132.7 | 7277.3 | 7839.8 | 9037.1 | 9548.6 | 10012.0 | 10349.5 |
| 25° | 7695.2 | 7641.6 | 7518.4 | 7397.9 | 7355.0 | 7692.5 | 8897.8 | 9540.6 | 10247.7 | 10670.9 |
| 27.5° | 8488.0 | 8421.0 | 8171.9 | 7882.7 | 7622.8 | 7767.5 | 8836.2 | 9588.8 | 10507.5 | 11011.1 |
| 30° | 9471.0 | 9398.7 | 9085.3 | 8640.7 | 8174.6 | 8046.0 | 8913.9 | 9730.8 | 10839.7 | 11463.7 |
| 32.5° | 10352.2 | 10271.8 | 10004.0 | 9551.3 | 8921.9 | 8528.2 | 9160.3 | 10001.3 | 11362.0 | 12093.2 |
| 35° | 11134.3 | 11040.5 | 10799.5 | 10381.6 | 9837.9 | 9205.8 | 9604.9 | 10480.7 | 12103.9 | 13116.3 |
| 37.5° | 11900.3 | 11790.5 | 11528.0 | 11086.1 | 10705.7 | 10108.4 | 10218.3 | 11096.8 | 13089.5 | 14359.1 |
| 40° | 12757.4 | 12599.4 | 12280.7 | 11844.1 | 11474.4 | 11166.4 | 11024.5 | 11852.1 | 14091.3 | 15746.6 |
| 42.5° | 13587.7 | 13437.7 | 13057.4 | 12685.1 | 12221.7 | 12133.3 | 11959.2 | 12736.0 | 15186.8 | 17270.6 |
| 45° | 14482.3 | 14302.9 | 13842.2 | 13370.8 | 13078.8 | 12776.2 | 12864.6 | 13619.9 | 16260.8 | 18824.1 |
| 47.5° | 15320.7 | 15119.8 | 14576.1 | 14051.1 | 13890.4 | 13317.2 | 13694.9 | 14592.2 | 17377.7 | 20399.0 |
| 50° | 15773.3 | 15575.1 | 15122.5 | 14648.4 | 14522.5 | 13984.1 | 14594.8 | 15660.8 | 18548.2 | 21968.6 |
| 52.5° | 16151.0 | 15936.7 | 15344.8 | 15082.3 | 15044.8 | 14710.0 | 15703.7 | 16882.2 | 19718.7 | 23356.0 |
| 55° | 16552.8 | 16314.4 | 15559.1 | 15323.4 | 15494.8 | 15524.2 | 17018.8 | 18267.0 | 20956.1 | 24708.6 |
| 57.5° | 17016.1 | 16713.5 | 15765.3 | 15526.9 | 15934.1 | 16477.8 | 18529.5 | 19702.6 | 22172.1 | 25962.1 |
| 60° | 17452.7 | 17147.4 | 16161.7 | 15851.0 | 16408.1 | 17584.0 | 20262.4 | 21440.9 | 23548.9 | 27079.0 |
| 62.5° | 17538.4 | 17286.7 | 16477.8 | 16475.1 | 17051.0 | 18875.0 | 22314.1 | 23195.3 | 24751.5 | 28182.6 |
| 65° | 16054.6 | 15896.6 | 15417.1 | 16451.0 | 17972.3 | 20733.8 | 24598.8 | 25439.8 | 26280.9 | 29146.8 |
| 67.5° | 12219.1 | 12240.5 | 12205.7 | 14201.1 | 17227.7 | 23404.2 | 27906.7 | 27842.4 | 28169.2 | 30228.9 |
| 70° | 5587.2 | 5713.1 | 6532.7 | 9803.1 | 13802.0 | 23712.2 | 33376.1 | 32543.1 | 30539.6 | 31629.7 |
| 72.5° | 3018.6 | 3115.0 | 3449.8 | 4748.9 | 8297.8 | 21082.0 | 37463.4 | 38055.3 | 33692.1 | 32572.5 |
| 75° | 2215.1 | 2268.6 | 2501.7 | 3018.6 | 3484.7 | 15668.9 | 35998.3 | 39035.6 | 34085.9 | 30373.5 |
| 77.5° | 1658.0 | 1682.1 | 1872.2 | 2391.8 | 1783.8 | 8260.3 | 28763.8 | 32328.8 | 29178.9 | 24955.0 |
| 80° | 1202.6 | 1229.4 | 1371.4 | 1794.6 | 1250.8 | 3021.3 | 19750.8 | 22691.8 | 19983.9 | 15907.3 |
| 82.5° | 830.3 | 841.0 | 902.6 | 1221.4 | 873.2 | 1173.2 | 11206.6 | 13306.5 | 11155.7 | 5581.9 |
| 85° | 500.9 | 514.3 | 541.0 | 712.5 | 495.5 | 557.1 | 4837.3 | 5003.3 | 3334.7 | 1333.9 |
| 87.5° | 206.2 | 219.6 | 241.1 | 300.0 | 195.5 | 155.3 | 798.2 | 1001.7 | 624.1 | 391.1 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9138.8 | 0° | 9138.8 | 9138.8 | 9138.8 | 9138.8 | 9138.8 | 9138.8 | 9138.8 | 9138.8 | 9138.8 | 9138.8 |
| 9165.6 | 2.5° | 9152.2 | 9133.5 | 9082.6 | 9013.0 | 8948.7 | 8868.3 | 8833.5 | 8804.0 | 8777.3 | 8726.4 |
| 9237.9 | 5° | 9208.5 | 9157.6 | 9021.0 | 8844.2 | 8643.3 | 8423.7 | 8209.4 | 8062.1 | 7936.2 | 7842.5 |
| 9321.0 | 7.5° | 9294.2 | 9197.8 | 8948.7 | 8587.1 | 8126.4 | 7655.0 | 7229.1 | 6926.5 | 6698.8 | 6615.8 |
| 9438.8 | 10° | 9382.6 | 9267.4 | 8833.5 | 8196.0 | 7400.5 | 6674.7 | 6109.5 | 5798.8 | 5616.7 | 5557.8 |
| 9578.1 | 12.5° | 9487.0 | 9318.3 | 8654.0 | 7652.3 | 6589.0 | 5793.5 | 5300.6 | 5118.5 | 5024.8 | 4992.6 |
| 9749.5 | 15° | 9639.7 | 9361.2 | 8383.5 | 6972.0 | 5814.9 | 5150.6 | 4831.9 | 4706.0 | 4657.8 | 4655.1 |
| 9926.3 | 17.5° | 9754.9 | 9369.2 | 7963.0 | 6243.4 | 5220.3 | 4762.3 | 4499.8 | 4451.6 | 4483.7 | 4531.9 |
| 10100.4 | 20° | 9883.5 | 9296.9 | 7411.2 | 5579.2 | 4802.4 | 4422.1 | 4312.3 | 4344.4 | 4422.1 | 4491.7 |
| 10330.8 | 22.5° | 9974.5 | 9165.6 | 6744.3 | 5062.3 | 4440.9 | 4226.6 | 4221.2 | 4288.2 | 4331.0 | 4365.9 |
| 10601.3 | 25° | 10054.9 | 8943.3 | 6037.2 | 4628.3 | 4143.5 | 4108.7 | 4167.7 | 4146.2 | 4116.8 | 4146.2 |
| 10871.8 | 27.5° | 10113.8 | 8592.4 | 5405.1 | 4248.0 | 3934.6 | 4028.4 | 3993.6 | 3945.3 | 3942.7 | 3958.7 |
| 11190.5 | 30° | 10095.0 | 8123.7 | 4885.5 | 3886.4 | 3787.3 | 3878.4 | 3795.4 | 3787.3 | 3779.3 | 3787.3 |
| 11670.0 | 32.5° | 10095.0 | 7590.7 | 4486.4 | 3637.3 | 3693.6 | 3658.8 | 3650.7 | 3632.0 | 3599.8 | 3597.1 |
| 12320.8 | 35° | 10151.3 | 7057.7 | 4143.5 | 3503.4 | 3615.9 | 3532.9 | 3538.2 | 3492.7 | 3425.7 | 3393.6 |
| 13183.3 | 37.5° | 10266.5 | 6629.1 | 3803.4 | 3439.1 | 3479.3 | 3476.6 | 3455.2 | 3377.5 | 3259.7 | 3157.9 |
| 14260.0 | 40° | 10545.0 | 6503.3 | 3570.4 | 3409.7 | 3415.0 | 3447.2 | 3390.9 | 3240.9 | 2973.1 | 2807.0 |
| 15352.8 | 42.5° | 10981.6 | 6714.9 | 3519.5 | 3337.3 | 3372.2 | 3404.3 | 3294.5 | 2946.3 | 2756.1 | 2657.0 |
| 16499.2 | 45° | 11536.0 | 7084.5 | 3629.3 | 3232.9 | 3270.4 | 3326.6 | 2999.9 | 2833.8 | 2748.1 | 2750.8 |
| 17634.9 | 47.5° | 12237.8 | 7472.9 | 3832.9 | 3141.8 | 3123.1 | 3155.2 | 2804.3 | 2702.5 | 2584.7 | 2614.2 |
| 18725.0 | 50° | 13049.4 | 7866.6 | 4025.7 | 3018.6 | 2959.7 | 2855.2 | 2678.4 | 2582.0 | 2432.0 | 2362.4 |
| 19777.6 | 52.5° | 13927.9 | 8246.9 | 4103.4 | 2868.6 | 2782.9 | 2662.4 | 2592.7 | 2474.9 | 2292.7 | 2177.6 |
| 20771.3 | 55° | 14760.9 | 8592.4 | 4017.7 | 2689.2 | 2606.1 | 2512.4 | 2501.7 | 2429.3 | 2233.8 | 2073.1 |
| 21655.2 | 57.5° | 15548.4 | 8881.7 | 3803.4 | 2507.0 | 2426.7 | 2370.4 | 2442.7 | 2407.9 | 2161.5 | 1955.3 |
| 22490.9 | 60° | 16215.3 | 9079.9 | 3492.7 | 2322.2 | 2266.0 | 2236.5 | 2346.3 | 2335.6 | 2059.7 | 1829.4 |
| 23240.8 | 62.5° | 16745.6 | 9157.6 | 3149.8 | 2145.4 | 2132.0 | 2078.5 | 2212.4 | 2212.4 | 1931.2 | 1706.2 |
| 23899.7 | 65° | 17160.8 | 9082.6 | 2801.7 | 1971.3 | 1998.1 | 1917.8 | 2049.0 | 2032.9 | 1794.6 | 1596.4 |
| 24657.7 | 67.5° | 17527.7 | 8836.2 | 2416.0 | 1799.9 | 1861.5 | 1759.7 | 1877.6 | 1840.1 | 1644.6 | 1486.5 |
| 25314.0 | 70° | 17691.1 | 8263.0 | 1976.7 | 1628.5 | 1703.5 | 1604.4 | 1706.2 | 1636.5 | 1475.8 | 1368.7 |
| 24593.5 | 72.5° | 16378.7 | 6867.5 | 1556.2 | 1449.0 | 1513.3 | 1433.0 | 1521.4 | 1441.0 | 1293.7 | 1245.5 |
| 21237.4 | 75° | 13550.2 | 5153.3 | 1197.3 | 1253.5 | 1301.7 | 1240.1 | 1299.0 | 1240.1 | 1106.2 | 1141.0 |
| 15687.6 | 77.5° | 9840.6 | 3479.3 | 916.0 | 1047.3 | 1068.7 | 1036.6 | 1087.4 | 1020.5 | 900.0 | 891.9 |
| 7818.4 | 80° | 4893.5 | 2038.3 | 717.8 | 827.6 | 819.6 | 798.2 | 857.1 | 825.0 | 723.2 | 766.0 |
| 2110.6 | 82.5° | 1416.9 | 873.2 | 522.3 | 581.2 | 565.2 | 570.5 | 613.4 | 629.4 | 942.8 | 934.8 |
| 656.2 | 85° | 444.6 | 342.8 | 313.4 | 324.1 | 308.0 | 316.1 | 361.6 | 717.8 | 664.3 | 388.4 |
| 203.6 | 87.5° | 115.2 | 117.9 | 77.7 | 83.0 | 85.7 | 101.8 | 115.2 | 436.6 | 208.9 | 136.6 |
| 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> |
|-------------|
| 9138.8 |
| 8702.3 |
| 7764.8 |
| 6471.1 |
| 5466.7 |
| 5000.7 |
| 4665.8 |
| 4550.7 |
| 4515.9 |
| 4384.6 |
| 4165.0 |
| 3985.5 |
| 3816.8 |
| 3632.0 |
| 3425.7 |
| 3192.7 |
| 2828.4 |
| 2657.0 |
| 2764.2 |
| 2689.2 |
| 2381.1 |
| 2174.9 |
| 2073.1 |
| 1944.5 |
| 1821.3 |
| 1698.1 |
| 1585.6 |
| 1475.8 |
| 1347.3 |
| 1205.3 |
| 1041.9 |
| 851.7 |
| 758.0 |
| 956.2 |
| 420.5 |
| 144.6 |
| 0.0 |

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