

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: P957133

Luminaire Tested: **GALN-SB9C-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957133
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-SB9C-827-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60894 lumens
Efficiency: N/A
Efficacy: 135.4 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

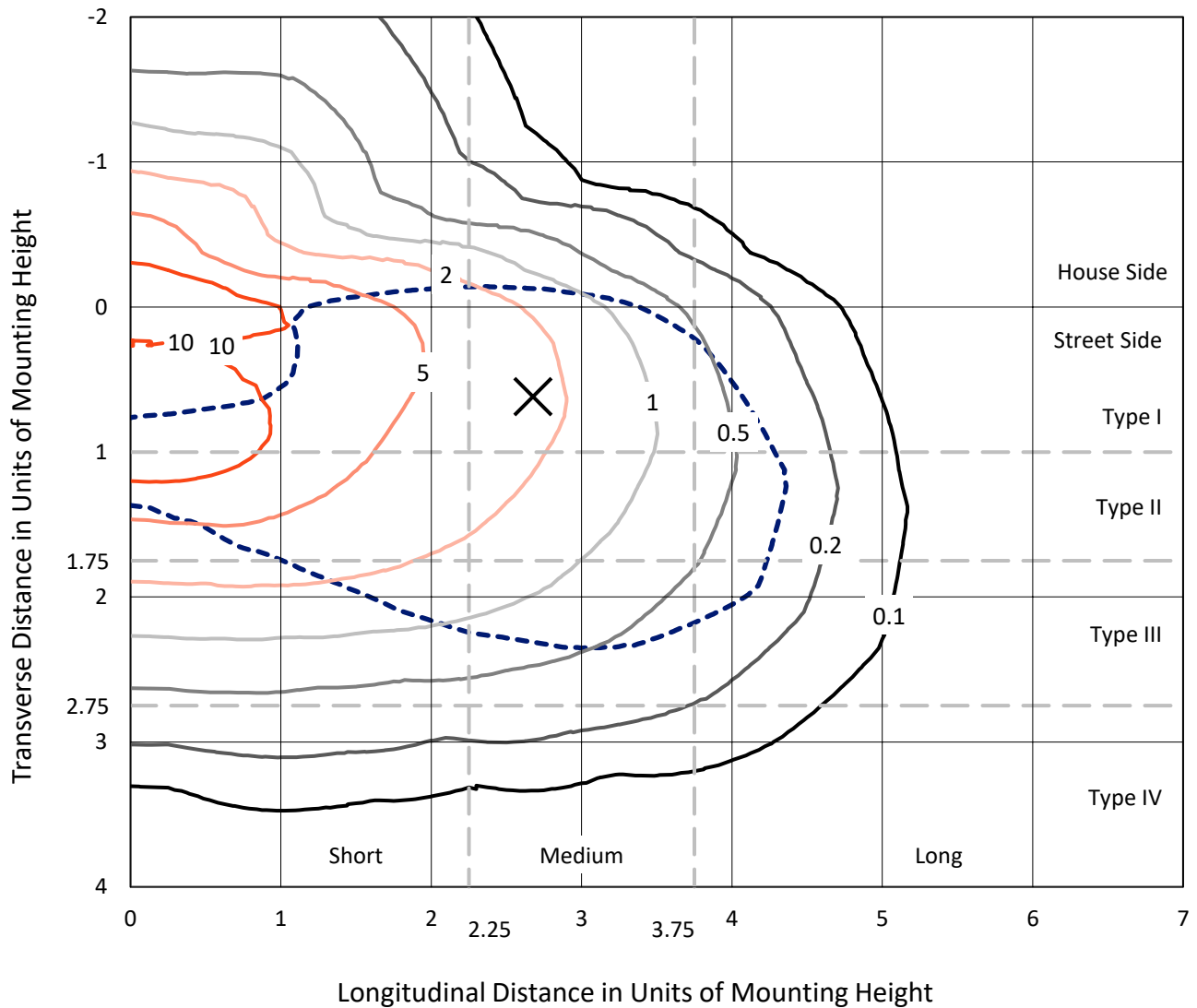
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

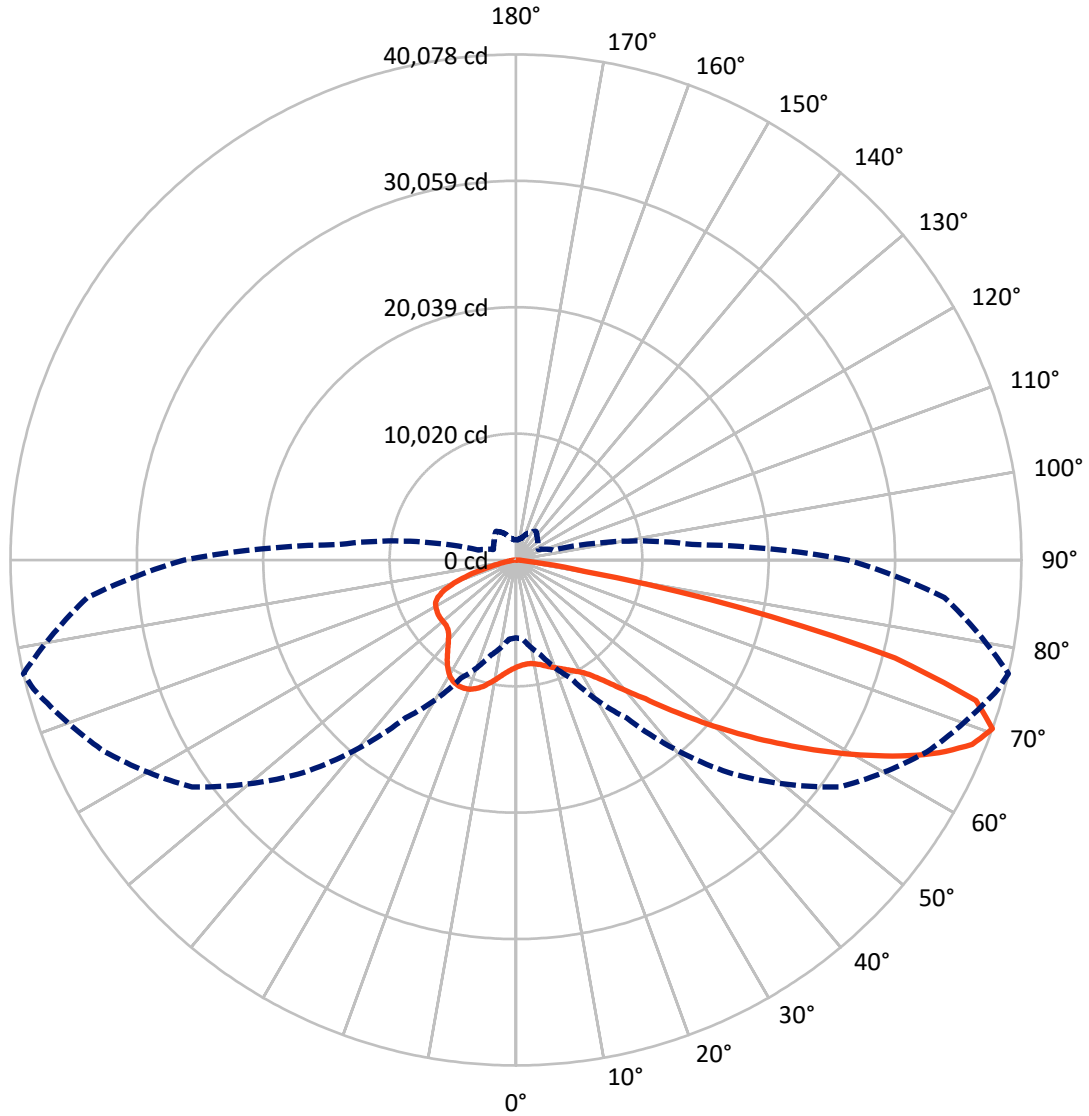
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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 | 13334.8 | 0.0 | 13334.8 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 47559.2 | 0.0 | 47559.2 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 60894.0 | 0.0 | 60894.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 810.2 | 1.3 |
| 10°-20° | 2338.4 | 3.8 |
| 20°-30° | 3998.9 | 6.6 |
| 30°-40° | 6430.7 | 10.6 |
| 40°-50° | 10040.0 | 16.5 |
| 50°-60° | 13411.1 | 22.0 |
| 60°-70° | 14294.2 | 23.5 |
| 70°-80° | 8799.4 | 14.5 |
| 80°-90° | 771.1 | 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° | 60894.0 | 100.0 |
| 0°-180° | 60894.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P957133

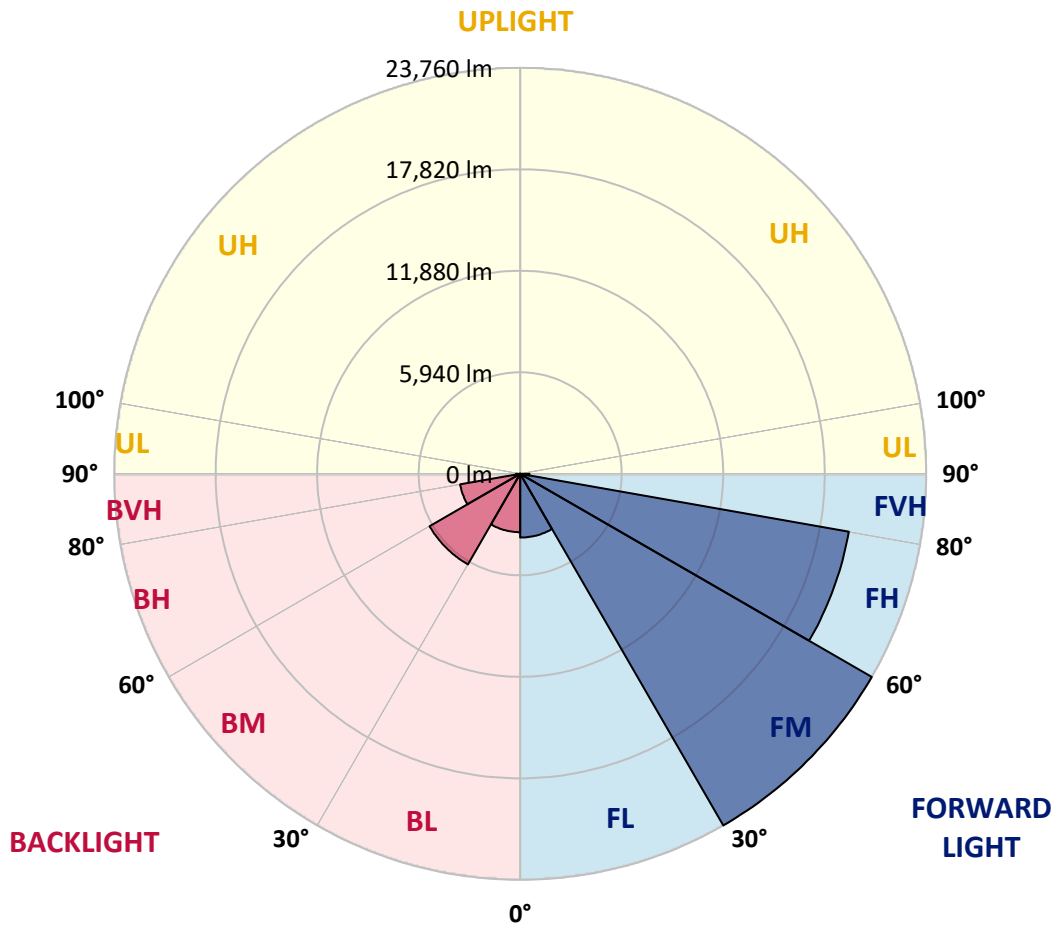
CATALOG NUMBER: GALN-SB9C-827-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3730.7 | 6.1 | | | |
| FM (30°-60°) | 23759.5 | 39.0 | | | |
| FH (60°-80°) | 19529.7 | 32.1 | | | G5 |
| FVH (80°-90°) | 539.2 | 0.9 | | | G4/750 |
| BL (0°-30°) | 3416.8 | 5.6 | B4/5000 | | |
| BM (30°-60°) | 6122.3 | 10.1 | B4/8500 | | |
| BH (60°-80°) | 3563.8 | 5.9 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 231.9 | 0.4 | | | 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 III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8495.3 | 8495.3 | 8495.3 | 8495.3 | 8495.3 | 8495.3 | 8495.3 | 8495.3 | 8495.3 | 8495.3 |
| 2.5° | 7831.0 | 7827.9 | 7868.4 | 7880.9 | 7955.7 | 8008.8 | 8108.6 | 8214.6 | 8351.8 | 8367.4 |
| 5° | 7378.8 | 7378.8 | 7425.6 | 7475.5 | 7572.1 | 7678.2 | 7831.0 | 8015.0 | 8252.0 | 8289.4 |
| 7.5° | 6995.2 | 7020.1 | 7060.7 | 7157.4 | 7269.6 | 7422.4 | 7656.3 | 7918.3 | 8230.2 | 8289.4 |
| 10° | 6686.4 | 6714.5 | 6764.4 | 6842.4 | 7010.8 | 7222.8 | 7528.5 | 7865.3 | 8283.2 | 8376.8 |
| 12.5° | 6589.8 | 6617.8 | 6645.9 | 6705.1 | 6861.1 | 7110.6 | 7475.5 | 7890.2 | 8411.1 | 8504.6 |
| 15° | 6814.3 | 6848.6 | 6826.8 | 6811.2 | 6892.3 | 7119.9 | 7500.4 | 7980.7 | 8570.1 | 8704.2 |
| 17.5° | 7332.0 | 7344.5 | 7294.6 | 7148.0 | 7135.5 | 7257.2 | 7618.9 | 8105.4 | 8769.7 | 8916.3 |
| 20° | 8167.8 | 8146.0 | 8043.1 | 7753.0 | 7587.7 | 7562.8 | 7821.6 | 8292.6 | 8975.5 | 9131.5 |
| 22.5° | 9303.0 | 9278.1 | 9072.2 | 8613.8 | 8245.8 | 8002.5 | 8114.8 | 8535.8 | 9206.3 | 9381.0 |
| 25° | 10718.9 | 10684.6 | 10382.1 | 9758.3 | 9187.6 | 8585.7 | 8514.0 | 8857.0 | 9490.1 | 9652.3 |
| 27.5° | 12371.8 | 12343.7 | 12016.3 | 11192.9 | 10369.6 | 9384.1 | 9009.8 | 9234.4 | 9786.4 | 9970.4 |
| 30° | 14149.4 | 14230.5 | 13650.4 | 12764.7 | 11723.1 | 10425.7 | 9677.2 | 9699.1 | 10170.0 | 10335.3 |
| 32.5° | 16238.9 | 16379.3 | 15680.7 | 14558.0 | 13135.9 | 11557.8 | 10519.3 | 10347.8 | 10728.2 | 10865.5 |
| 35° | 18309.7 | 18468.8 | 17888.7 | 16647.5 | 15010.2 | 12892.6 | 11398.8 | 11093.1 | 11470.5 | 11620.2 |
| 37.5° | 20099.9 | 20311.9 | 20012.5 | 18933.5 | 17015.5 | 14501.8 | 12546.4 | 11969.5 | 12384.3 | 12571.4 |
| 40° | 21512.6 | 21837.0 | 21815.1 | 21141.5 | 19379.4 | 16454.1 | 14002.8 | 13051.7 | 13519.5 | 13722.2 |
| 42.5° | 22660.3 | 22941.0 | 23184.2 | 23149.9 | 21846.3 | 18671.5 | 15715.0 | 14458.2 | 14813.7 | 15047.6 |
| 45° | 23452.4 | 23751.8 | 24275.8 | 24840.2 | 24219.6 | 21044.8 | 17676.6 | 16126.7 | 16451.0 | 16803.4 |
| 47.5° | 24160.4 | 24500.3 | 25180.2 | 26075.2 | 26234.3 | 23427.5 | 19825.4 | 18069.6 | 18365.9 | 18730.8 |
| 50° | 24222.7 | 24515.9 | 25570.0 | 26839.3 | 27665.8 | 25716.6 | 22133.2 | 20249.6 | 20527.1 | 20916.9 |
| 52.5° | 22716.4 | 23178.0 | 25018.0 | 26817.5 | 28323.8 | 27631.5 | 24425.5 | 22516.8 | 22828.7 | 23296.5 |
| 55° | 17633.0 | 18309.7 | 23399.4 | 25981.7 | 28089.9 | 28869.6 | 26605.4 | 24927.6 | 25326.8 | 25816.4 |
| 57.5° | 15187.9 | 15484.2 | 18574.8 | 24459.8 | 27023.3 | 29190.8 | 28445.4 | 27363.2 | 28005.7 | 28542.1 |
| 60° | 13650.4 | 13896.8 | 15724.4 | 22092.7 | 25619.9 | 28682.4 | 29867.5 | 29633.6 | 30743.9 | 31383.2 |
| 62.5° | 12003.8 | 12237.7 | 13899.9 | 18447.0 | 23823.6 | 27837.3 | 30765.7 | 31729.4 | 33550.7 | 34249.3 |
| 65° | 10369.6 | 10569.2 | 12162.8 | 15499.8 | 21540.7 | 26992.1 | 31230.4 | 33541.3 | 36148.6 | 36872.1 |
| 67.5° | 8548.3 | 8713.6 | 10219.9 | 13076.6 | 18765.1 | 25835.1 | 31461.2 | 34966.6 | 38409.6 | 39030.2 |
| 70° | 6168.7 | 6296.6 | 7852.8 | 10341.5 | 15281.5 | 23845.4 | 31367.6 | 35977.0 | 39582.2 | 40078.1 |
| 72.5° | 2916.0 | 3031.4 | 4858.9 | 6714.5 | 10793.7 | 19972.0 | 29474.6 | 35175.5 | 38390.9 | 38144.5 |
| 75° | 1556.2 | 1656.0 | 2791.2 | 3683.2 | 5700.9 | 13691.0 | 24119.8 | 30301.0 | 32237.7 | 31040.2 |
| 77.5° | 1054.1 | 1132.1 | 1727.7 | 2211.1 | 2604.1 | 6499.3 | 15502.9 | 20979.3 | 20184.1 | 18206.8 |
| 80° | 835.8 | 916.9 | 1415.9 | 1497.0 | 1259.9 | 2348.4 | 6405.8 | 9711.6 | 6976.5 | 5579.3 |
| 82.5° | 642.4 | 732.9 | 1191.3 | 1085.3 | 686.1 | 963.7 | 1865.0 | 3071.9 | 1787.0 | 1359.7 |
| 85° | 393.0 | 489.6 | 935.6 | 692.3 | 386.7 | 439.7 | 633.1 | 854.5 | 545.8 | 455.3 |
| 87.5° | 199.6 | 280.7 | 474.0 | 252.6 | 174.6 | 102.9 | 168.4 | 168.4 | 143.5 | 124.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P957133
 CATALOG NUMBER: GALN-SB9C-827-U-T3R

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 8495.3 | 0° | 8495.3 | 8495.3 | 8495.3 | 8495.3 | 8495.3 | 8495.3 | 8495.3 | 8495.3 | 8495.3 | 8495.3 |
| 8451.6 | 2.5° | 8526.5 | 8588.8 | 8694.9 | 8794.7 | 8872.6 | 8947.5 | 9022.3 | 9062.9 | 9075.3 | 9125.2 |
| 8498.4 | 5° | 8626.3 | 8741.6 | 8947.5 | 9140.8 | 9262.5 | 9337.3 | 9390.3 | 9421.5 | 9427.8 | 9443.3 |
| 8626.3 | 7.5° | 8810.3 | 8994.3 | 9281.2 | 9474.5 | 9565.0 | 9558.7 | 9536.9 | 9458.9 | 9427.8 | 9399.7 |
| 8813.4 | 10° | 9069.1 | 9312.4 | 9664.8 | 9798.9 | 9742.7 | 9593.0 | 9399.7 | 9172.0 | 9066.0 | 8963.1 |
| 9069.1 | 12.5° | 9390.3 | 9699.1 | 10045.2 | 10039.0 | 9761.5 | 9377.9 | 8928.8 | 8579.5 | 8358.0 | 8199.0 |
| 9384.1 | 15° | 9780.2 | 10135.7 | 10400.8 | 10188.7 | 9580.6 | 8891.3 | 8233.3 | 7778.0 | 7578.4 | 7403.7 |
| 9702.2 | 17.5° | 10182.5 | 10562.9 | 10684.6 | 10141.9 | 9125.2 | 8170.9 | 7425.6 | 7066.9 | 6870.4 | 6776.9 |
| 10045.2 | 20° | 10575.4 | 10952.8 | 10853.0 | 9873.7 | 8432.9 | 7353.8 | 6689.6 | 6493.1 | 6452.5 | 6474.4 |
| 10378.9 | 22.5° | 10990.2 | 11327.0 | 10887.3 | 9356.0 | 7550.3 | 6518.0 | 6153.1 | 6159.4 | 6249.8 | 6315.3 |
| 10728.2 | 25° | 11414.3 | 11642.0 | 10796.9 | 8607.5 | 6602.2 | 5903.7 | 5813.2 | 5913.0 | 6090.8 | 6218.6 |
| 11121.2 | 27.5° | 11822.9 | 11922.7 | 10600.4 | 7681.3 | 5788.3 | 5463.9 | 5479.5 | 5685.3 | 5953.5 | 6131.3 |
| 11598.3 | 30° | 12284.5 | 12172.2 | 10223.0 | 6639.7 | 5223.8 | 5086.6 | 5217.5 | 5457.7 | 5725.9 | 5884.9 |
| 12200.3 | 32.5° | 12805.3 | 12387.4 | 9624.2 | 5676.0 | 4824.6 | 4784.0 | 4999.2 | 5155.2 | 5273.7 | 5320.5 |
| 12998.6 | 35° | 13454.0 | 12689.9 | 8857.0 | 4999.2 | 4465.9 | 4562.6 | 4768.5 | 4690.5 | 4643.7 | 4618.8 |
| 14071.5 | 37.5° | 14296.0 | 13098.4 | 7958.9 | 4559.5 | 4175.9 | 4403.6 | 4487.8 | 4244.5 | 4060.5 | 3970.1 |
| 15371.9 | 40° | 15309.6 | 13697.2 | 7095.0 | 4219.6 | 3991.9 | 4266.3 | 4119.8 | 3826.6 | 3592.7 | 3464.8 |
| 16834.6 | 42.5° | 16435.4 | 14324.1 | 6368.3 | 3963.8 | 3889.0 | 4154.1 | 3848.4 | 3499.2 | 3121.8 | 3081.3 |
| 18577.9 | 45° | 17617.4 | 14969.6 | 5872.5 | 3767.4 | 3839.1 | 4057.4 | 3692.5 | 3128.0 | 2859.8 | 3025.1 |
| 20327.5 | 47.5° | 18799.4 | 15562.2 | 5573.1 | 3620.8 | 3814.1 | 3948.2 | 3555.3 | 2922.2 | 2732.0 | 2972.1 |
| 22201.8 | 50° | 20115.4 | 16092.4 | 5439.0 | 3514.7 | 3786.1 | 3904.6 | 3349.5 | 2869.2 | 2597.9 | 2756.9 |
| 24141.7 | 52.5° | 21422.2 | 16504.0 | 5339.2 | 3408.7 | 3745.5 | 3870.3 | 3249.7 | 2806.8 | 2435.7 | 2445.0 |
| 26093.9 | 55° | 22725.8 | 16772.2 | 5230.0 | 3268.4 | 3655.1 | 3795.4 | 3240.3 | 2738.2 | 2314.1 | 2270.4 |
| 28158.5 | 57.5° | 24116.7 | 16925.0 | 5095.9 | 3112.4 | 3499.2 | 3605.2 | 3230.9 | 2685.2 | 2276.6 | 2204.9 |
| 30269.9 | 60° | 25532.6 | 17149.6 | 4921.3 | 2922.2 | 3290.2 | 3377.5 | 3209.1 | 2666.5 | 2254.8 | 2133.2 |
| 32259.6 | 62.5° | 26801.9 | 17227.6 | 4712.3 | 2741.3 | 3022.0 | 3153.0 | 3162.3 | 2650.9 | 2195.5 | 1986.6 |
| 33912.5 | 65° | 27634.6 | 16890.7 | 4347.4 | 2535.5 | 2732.0 | 2922.2 | 3071.9 | 2597.9 | 2089.5 | 1880.6 |
| 34729.6 | 67.5° | 27600.3 | 15930.2 | 3776.7 | 2270.4 | 2451.3 | 2666.5 | 2940.9 | 2507.4 | 1961.6 | 1749.6 |
| 34112.1 | 70° | 26315.4 | 14034.0 | 3053.2 | 1961.6 | 2142.5 | 2392.0 | 2772.5 | 2373.3 | 1808.8 | 1606.1 |
| 30332.2 | 72.5° | 22569.8 | 10984.0 | 2217.4 | 1599.9 | 1783.9 | 2108.2 | 2554.2 | 2211.1 | 1652.9 | 1478.3 |
| 22417.0 | 75° | 16123.5 | 6951.5 | 1503.2 | 1228.8 | 1387.8 | 1787.0 | 2282.9 | 2020.9 | 1509.4 | 1484.5 |
| 11227.2 | 77.5° | 8236.4 | 3321.4 | 994.9 | 898.2 | 966.8 | 1409.6 | 1918.0 | 1805.7 | 1531.3 | 1225.6 |
| 3193.5 | 80° | 2678.9 | 1225.6 | 626.9 | 611.3 | 642.4 | 938.7 | 1484.5 | 1481.4 | 1160.1 | 832.7 |
| 773.4 | 82.5° | 854.5 | 527.1 | 408.5 | 393.0 | 377.4 | 589.4 | 1035.4 | 1172.6 | 782.8 | 527.1 |
| 277.6 | 85° | 339.9 | 315.0 | 240.1 | 221.4 | 159.1 | 277.6 | 542.6 | 779.7 | 583.2 | 380.5 |
| 71.7 | 87.5° | 124.7 | 124.7 | 65.5 | 46.8 | 34.3 | 93.6 | 146.6 | 233.9 | 333.7 | 196.5 |
| 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> |
|-------------|
| 8495.3 |
| 9153.3 |
| 9468.3 |
| 9405.9 |
| 8931.9 |
| 8161.6 |
| 7385.0 |
| 6804.9 |
| 6465.0 |
| 6330.9 |
| 6252.9 |
| 6175.0 |
| 5922.4 |
| 5345.4 |
| 4643.7 |
| 3991.9 |
| 3474.2 |
| 3121.8 |
| 3112.4 |
| 3084.4 |
| 2875.4 |
| 2510.5 |
| 2301.6 |
| 2214.3 |
| 2142.5 |
| 1986.6 |
| 1880.6 |
| 1758.9 |
| 1624.8 |
| 1468.9 |
| 1400.3 |
| 1091.5 |
| 736.0 |
| 523.9 |
| 389.8 |
| 193.4 |
| 0.0 |

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