

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: P957658

Luminaire Tested: **GALN-SB9D-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957658
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-SB9D-940-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68951 lumens
Efficiency: N/A
Efficacy: 104.8 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

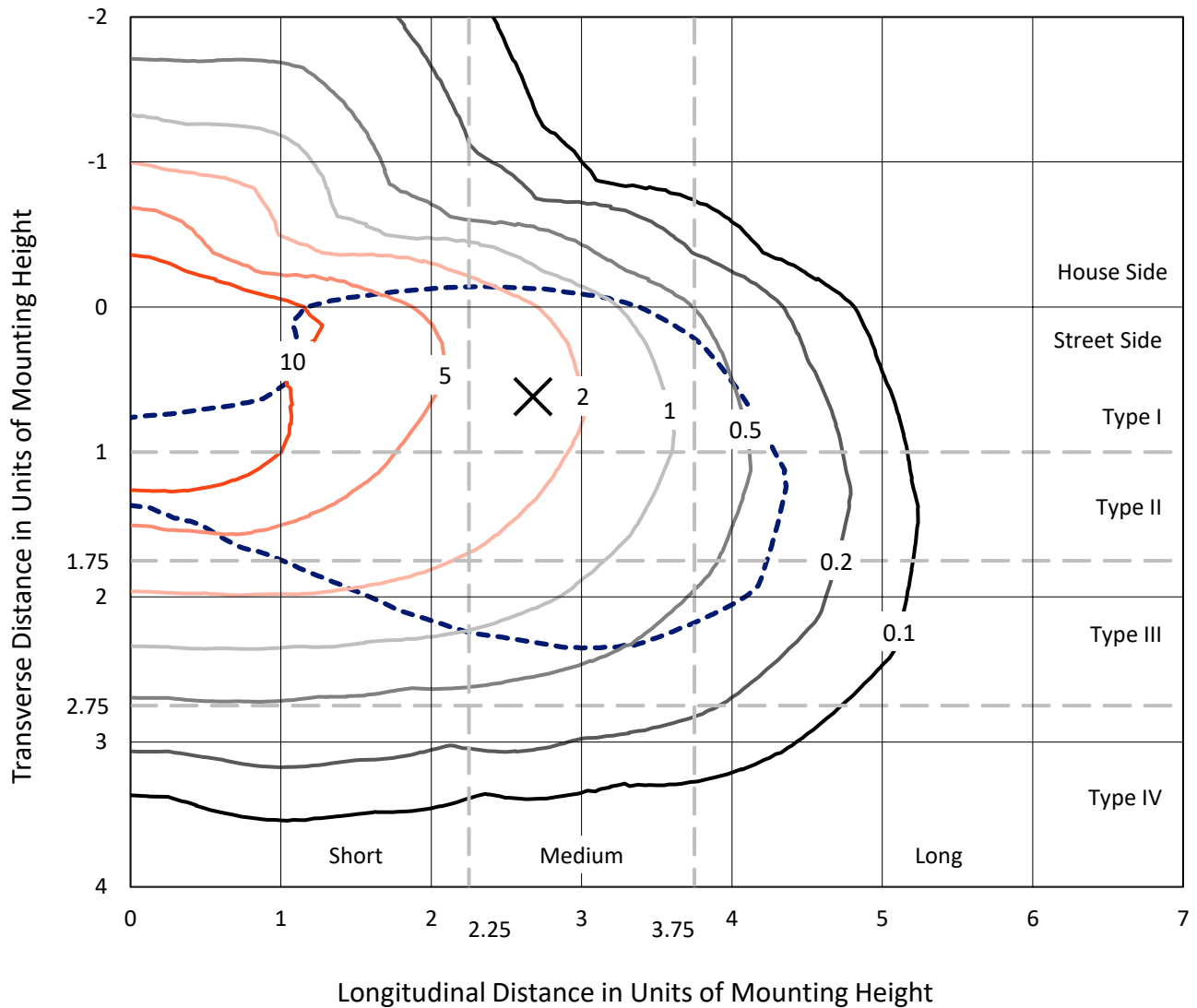
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

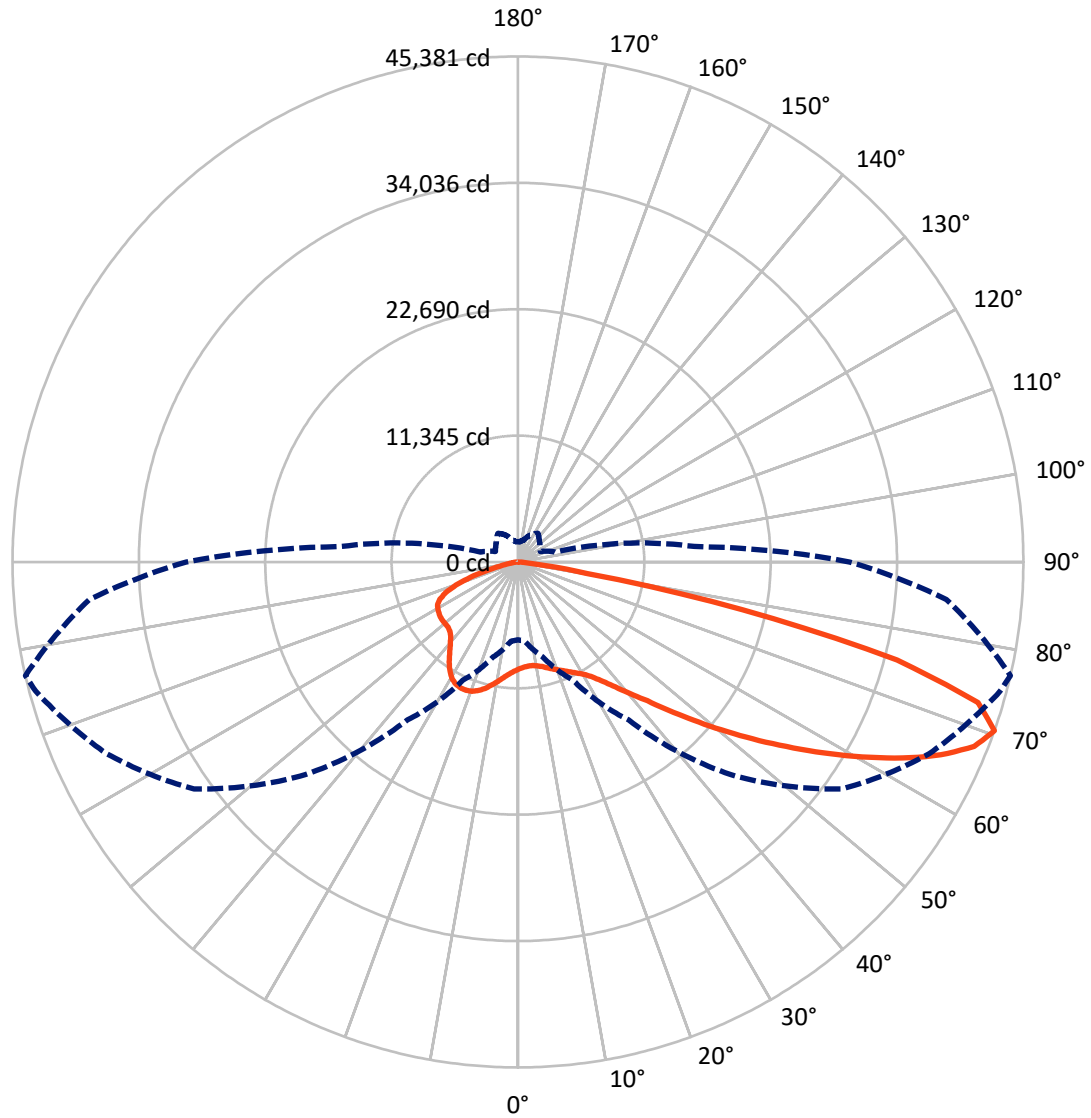
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 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 | 15099.2 | 0.0 | 15099.2 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 53851.8 | 0.0 | 53851.8 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 68951.0 | 0.0 | 68951.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 917.4 | 1.3 |
| 10°-20° | 2647.8 | 3.8 |
| 20°-30° | 4528.1 | 6.6 |
| 30°-40° | 7281.6 | 10.6 |
| 40°-50° | 11368.4 | 16.5 |
| 50°-60° | 15185.5 | 22.0 |
| 60°-70° | 16185.4 | 23.5 |
| 70°-80° | 9963.7 | 14.5 |
| 80°-90° | 873.1 | 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° | 68951.0 | 100.0 |
| 0°-180° | 68951.0 | 100.0 |



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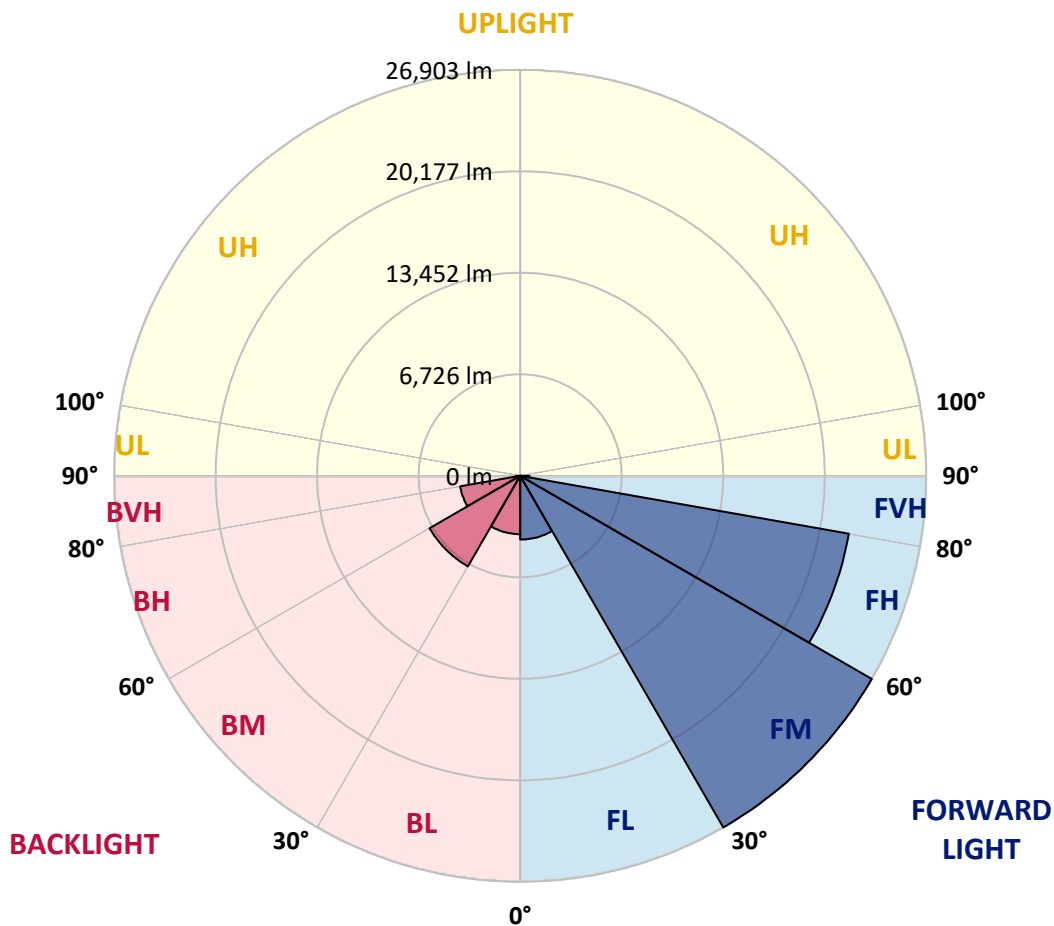
CATALOG NUMBER: GALN-SB9D-940-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4224.4 | 6.1 | | | |
| FM (30°-60°) | 26903.2 | 39.0 | | | |
| FH (60°-80°) | 22113.7 | 32.1 | | | G5 |
| FVH (80°-90°) | 610.5 | 0.9 | | | G4/750 |
| BL (0°-30°) | 3868.9 | 5.6 | B4/5000 | | |
| BM (30°-60°) | 6932.4 | 10.1 | B4/8500 | | |
| BH (60°-80°) | 4035.4 | 5.9 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 262.6 | 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° | 9619.3 | 9619.3 | 9619.3 | 9619.3 | 9619.3 | 9619.3 | 9619.3 | 9619.3 | 9619.3 | 9619.3 |
| 2.5° | 8867.1 | 8863.6 | 8909.5 | 8923.6 | 9008.4 | 9068.4 | 9181.4 | 9301.5 | 9456.9 | 9474.5 |
| 5° | 8355.1 | 8355.1 | 8408.1 | 8464.6 | 8574.0 | 8694.1 | 8867.1 | 9075.5 | 9343.9 | 9386.2 |
| 7.5° | 7920.7 | 7949.0 | 7994.9 | 8104.4 | 8231.5 | 8404.5 | 8669.4 | 8966.0 | 9319.1 | 9386.2 |
| 10° | 7571.1 | 7602.9 | 7659.4 | 7747.7 | 7938.4 | 8178.5 | 8524.6 | 8906.0 | 9379.2 | 9485.1 |
| 12.5° | 7461.7 | 7493.4 | 7525.2 | 7592.3 | 7768.9 | 8051.4 | 8464.6 | 8934.2 | 9523.9 | 9629.9 |
| 15° | 7715.9 | 7754.8 | 7730.0 | 7712.4 | 7804.2 | 8062.0 | 8492.8 | 9036.6 | 9704.0 | 9855.9 |
| 17.5° | 8302.1 | 8316.2 | 8259.7 | 8093.8 | 8079.6 | 8217.4 | 8627.0 | 9177.9 | 9930.0 | 10096.0 |
| 20° | 9248.5 | 9223.8 | 9107.3 | 8778.8 | 8591.7 | 8563.4 | 8856.5 | 9389.8 | 10163.1 | 10339.7 |
| 22.5° | 10533.9 | 10505.7 | 10272.6 | 9753.5 | 9336.8 | 9061.3 | 9188.5 | 9665.2 | 10424.4 | 10622.2 |
| 25° | 12137.1 | 12098.3 | 11755.7 | 11049.5 | 10403.2 | 9721.7 | 9640.5 | 10028.9 | 10745.8 | 10929.4 |
| 27.5° | 14008.7 | 13976.9 | 13606.1 | 12673.9 | 11741.6 | 10625.7 | 10202.0 | 10456.2 | 11081.3 | 11289.6 |
| 30° | 16021.6 | 16113.4 | 15456.6 | 14453.7 | 13274.2 | 11805.2 | 10957.7 | 10982.4 | 11515.6 | 11702.8 |
| 32.5° | 18387.5 | 18546.4 | 17755.4 | 16484.2 | 14873.9 | 13087.0 | 11911.1 | 11716.9 | 12147.7 | 12303.1 |
| 35° | 20732.3 | 20912.4 | 20255.6 | 18850.1 | 16996.2 | 14598.4 | 12906.9 | 12560.9 | 12988.2 | 13157.7 |
| 37.5° | 22759.3 | 22999.4 | 22660.4 | 21438.6 | 19266.8 | 16420.6 | 14206.5 | 13553.2 | 14022.8 | 14234.7 |
| 40° | 24359.0 | 24726.2 | 24701.5 | 23938.8 | 21943.6 | 18631.2 | 15855.6 | 14778.5 | 15308.2 | 15537.8 |
| 42.5° | 25658.5 | 25976.3 | 26251.8 | 26212.9 | 24736.8 | 21142.0 | 17794.3 | 16371.2 | 16773.7 | 17038.6 |
| 45° | 26555.5 | 26894.5 | 27487.7 | 28126.9 | 27424.2 | 23829.3 | 20015.5 | 18260.4 | 18627.7 | 19026.7 |
| 47.5° | 27357.1 | 27742.0 | 28511.8 | 29525.3 | 29705.4 | 26527.2 | 22448.5 | 20460.4 | 20795.9 | 21209.1 |
| 50° | 27427.7 | 27759.6 | 28953.2 | 30390.5 | 31326.3 | 29119.2 | 25061.7 | 22928.8 | 23243.1 | 23684.5 |
| 52.5° | 25722.1 | 26244.7 | 28328.2 | 30365.8 | 32071.4 | 31287.4 | 27657.2 | 25496.1 | 25849.2 | 26378.9 |
| 55° | 19966.0 | 20732.3 | 26495.4 | 29419.4 | 31806.5 | 32689.4 | 30125.6 | 28225.8 | 28677.8 | 29232.2 |
| 57.5° | 17197.5 | 17533.0 | 21032.5 | 27696.1 | 30598.8 | 33053.1 | 32209.1 | 30983.7 | 31711.2 | 32318.6 |
| 60° | 15456.6 | 15735.5 | 17804.9 | 25015.8 | 29009.7 | 32477.5 | 33819.4 | 33554.5 | 34811.7 | 35535.6 |
| 62.5° | 13592.0 | 13856.9 | 15739.1 | 20887.7 | 26975.7 | 31520.5 | 34836.4 | 35927.6 | 37989.9 | 38780.9 |
| 65° | 11741.6 | 11967.6 | 13772.1 | 17550.6 | 24390.8 | 30563.5 | 35362.6 | 37979.3 | 40931.4 | 41750.7 |
| 67.5° | 9679.3 | 9866.5 | 11572.1 | 14806.8 | 21247.9 | 29253.4 | 35623.9 | 39593.1 | 43491.6 | 44194.4 |
| 70° | 6984.9 | 7129.7 | 8891.8 | 11709.8 | 17303.4 | 27000.4 | 35517.9 | 40737.2 | 44819.4 | 45380.9 |
| 72.5° | 3301.8 | 3432.4 | 5501.8 | 7602.9 | 12221.9 | 22614.5 | 33374.4 | 39829.7 | 43470.4 | 43191.5 |
| 75° | 1762.1 | 1875.1 | 3160.5 | 4170.5 | 6455.2 | 15502.5 | 27311.2 | 34310.2 | 36503.2 | 35147.1 |
| 77.5° | 1193.6 | 1281.9 | 1956.3 | 2503.7 | 2948.6 | 7359.3 | 17554.2 | 23755.1 | 22854.7 | 20615.8 |
| 80° | 946.4 | 1038.2 | 1603.2 | 1695.0 | 1426.6 | 2659.1 | 7253.3 | 10996.5 | 7899.5 | 6317.5 |
| 82.5° | 727.5 | 829.9 | 1349.0 | 1228.9 | 776.9 | 1091.2 | 2111.7 | 3478.3 | 2023.4 | 1539.7 |
| 85° | 444.9 | 554.4 | 1059.4 | 784.0 | 437.9 | 497.9 | 716.9 | 967.6 | 618.0 | 515.6 |
| 87.5° | 226.0 | 317.8 | 536.8 | 286.0 | 197.8 | 116.5 | 190.7 | 190.7 | 162.4 | 141.3 |
| 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-SB9D-940-U-T3R

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 9619.3 | 0° | 9619.3 | 9619.3 | 9619.3 | 9619.3 | 9619.3 | 9619.3 | 9619.3 | 9619.3 | 9619.3 | 9619.3 |
| 9569.9 | 2.5° | 9654.6 | 9725.2 | 9845.3 | 9958.3 | 10046.6 | 10131.3 | 10216.1 | 10262.0 | 10276.1 | 10332.6 |
| 9622.8 | 5° | 9767.6 | 9898.3 | 10131.3 | 10350.3 | 10488.0 | 10572.7 | 10632.8 | 10668.1 | 10675.2 | 10692.8 |
| 9767.6 | 7.5° | 9976.0 | 10184.3 | 10509.2 | 10728.1 | 10830.5 | 10823.5 | 10798.8 | 10710.5 | 10675.2 | 10643.4 |
| 9979.5 | 10° | 10269.1 | 10544.5 | 10943.5 | 11095.4 | 11031.8 | 10862.3 | 10643.4 | 10385.6 | 10265.5 | 10149.0 |
| 10269.1 | 12.5° | 10632.8 | 10982.4 | 11374.4 | 11367.3 | 11053.0 | 10618.7 | 10110.1 | 9714.6 | 9463.9 | 9283.8 |
| 10625.7 | 15° | 11074.2 | 11476.8 | 11776.9 | 11536.8 | 10848.2 | 10067.8 | 9322.7 | 8807.1 | 8581.1 | 8383.3 |
| 10985.9 | 17.5° | 11529.7 | 11960.6 | 12098.3 | 11483.8 | 10332.6 | 9252.0 | 8408.1 | 8002.0 | 7779.5 | 7673.5 |
| 11374.4 | 20° | 11974.7 | 12402.0 | 12289.0 | 11180.1 | 9548.7 | 8326.8 | 7574.7 | 7352.2 | 7306.3 | 7331.0 |
| 11752.2 | 22.5° | 12444.3 | 12825.7 | 12327.8 | 10593.9 | 8549.3 | 7380.4 | 6967.3 | 6974.3 | 7076.7 | 7150.9 |
| 12147.7 | 25° | 12924.6 | 13182.4 | 12225.4 | 9746.4 | 7475.8 | 6684.8 | 6582.4 | 6695.4 | 6896.7 | 7041.4 |
| 12592.7 | 27.5° | 13387.2 | 13500.2 | 12002.9 | 8697.6 | 6554.1 | 6186.9 | 6204.5 | 6437.6 | 6741.3 | 6942.6 |
| 13132.9 | 30° | 13909.8 | 13782.7 | 11575.6 | 7518.2 | 5914.9 | 5759.6 | 5907.9 | 6179.8 | 6483.5 | 6663.6 |
| 13814.5 | 32.5° | 14499.6 | 14026.4 | 10897.6 | 6427.0 | 5462.9 | 5417.0 | 5660.7 | 5837.3 | 5971.4 | 6024.4 |
| 14718.5 | 35° | 15234.1 | 14368.9 | 10028.9 | 5660.7 | 5056.8 | 5166.3 | 5399.4 | 5311.1 | 5258.1 | 5229.9 |
| 15933.3 | 37.5° | 16187.5 | 14831.5 | 9011.9 | 5162.8 | 4728.4 | 4986.2 | 5081.6 | 4806.1 | 4597.8 | 4495.4 |
| 17405.8 | 40° | 17335.2 | 15509.5 | 8033.7 | 4777.9 | 4520.1 | 4830.8 | 4664.9 | 4332.9 | 4068.1 | 3923.3 |
| 19062.0 | 42.5° | 18610.0 | 16219.3 | 7210.9 | 4488.3 | 4403.5 | 4703.7 | 4357.6 | 3962.1 | 3534.8 | 3488.9 |
| 21036.0 | 45° | 19948.4 | 16950.3 | 6649.5 | 4265.8 | 4347.0 | 4594.2 | 4181.1 | 3541.9 | 3238.2 | 3425.4 |
| 23017.1 | 47.5° | 21286.7 | 17621.2 | 6310.5 | 4099.9 | 4318.8 | 4470.6 | 4025.7 | 3308.8 | 3093.4 | 3365.3 |
| 25139.4 | 50° | 22777.0 | 18221.6 | 6158.6 | 3979.8 | 4287.0 | 4421.2 | 3792.6 | 3248.8 | 2941.6 | 3121.7 |
| 27335.9 | 52.5° | 24256.6 | 18687.7 | 6045.6 | 3859.7 | 4241.1 | 4382.4 | 3679.6 | 3178.2 | 2758.0 | 2768.5 |
| 29546.5 | 55° | 25732.7 | 18991.4 | 5922.0 | 3700.8 | 4138.7 | 4297.6 | 3669.0 | 3100.5 | 2620.2 | 2570.8 |
| 31884.2 | 57.5° | 27307.6 | 19164.4 | 5770.2 | 3524.2 | 3962.1 | 4082.2 | 3658.4 | 3040.5 | 2577.9 | 2496.6 |
| 34274.9 | 60° | 28910.9 | 19418.7 | 5572.4 | 3308.8 | 3725.5 | 3824.4 | 3633.7 | 3019.3 | 2553.1 | 2415.4 |
| 36527.9 | 62.5° | 30348.1 | 19507.0 | 5335.8 | 3104.0 | 3421.8 | 3570.2 | 3580.8 | 3001.6 | 2486.0 | 2249.4 |
| 38399.5 | 65° | 31291.0 | 19125.6 | 4922.6 | 2871.0 | 3093.4 | 3308.8 | 3478.3 | 2941.6 | 2366.0 | 2129.4 |
| 39324.7 | 67.5° | 31252.1 | 18037.9 | 4276.4 | 2570.8 | 2775.6 | 3019.3 | 3330.0 | 2839.2 | 2221.2 | 1981.1 |
| 38625.5 | 70° | 29797.2 | 15890.9 | 3457.2 | 2221.2 | 2426.0 | 2708.5 | 3139.3 | 2687.3 | 2048.2 | 1818.6 |
| 34345.5 | 72.5° | 25556.1 | 12437.3 | 2510.8 | 1811.6 | 2019.9 | 2387.2 | 2892.1 | 2503.7 | 1871.6 | 1673.8 |
| 25383.1 | 75° | 18256.9 | 7871.3 | 1702.1 | 1391.3 | 1571.4 | 2023.4 | 2584.9 | 2288.3 | 1709.2 | 1680.9 |
| 12712.7 | 77.5° | 9326.2 | 3760.8 | 1126.5 | 1017.0 | 1094.7 | 1596.2 | 2171.8 | 2044.6 | 1733.9 | 1387.8 |
| 3616.1 | 80° | 3033.4 | 1387.8 | 709.8 | 692.1 | 727.5 | 1062.9 | 1680.9 | 1677.4 | 1313.6 | 942.9 |
| 875.8 | 82.5° | 967.6 | 596.8 | 462.6 | 444.9 | 427.3 | 667.4 | 1172.4 | 1327.8 | 886.4 | 596.8 |
| 314.3 | 85° | 384.9 | 356.7 | 271.9 | 250.7 | 180.1 | 314.3 | 614.4 | 882.8 | 660.4 | 430.8 |
| 81.2 | 87.5° | 141.3 | 141.3 | 74.2 | 53.0 | 38.8 | 105.9 | 166.0 | 264.8 | 377.9 | 222.5 |
| 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> |
|-------------|
| 9619.3 |
| 10364.4 |
| 10721.1 |
| 10650.4 |
| 10113.7 |
| 9241.4 |
| 8362.1 |
| 7705.3 |
| 7320.4 |
| 7168.6 |
| 7080.3 |
| 6992.0 |
| 6706.0 |
| 6052.7 |
| 5258.1 |
| 4520.1 |
| 3933.9 |
| 3534.8 |
| 3524.2 |
| 3492.5 |
| 3255.9 |
| 2842.7 |
| 2606.1 |
| 2507.2 |
| 2426.0 |
| 2249.4 |
| 2129.4 |
| 1991.7 |
| 1839.8 |
| 1663.2 |
| 1585.6 |
| 1236.0 |
| 833.4 |
| 593.3 |
| 441.4 |
| 218.9 |
| 0.0 |

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