

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: P956713

Luminaire Tested: **GALN-SB9B-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956713
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-SB9B-740-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55706 lumens
Efficiency: N/A
Efficacy: 169.1 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

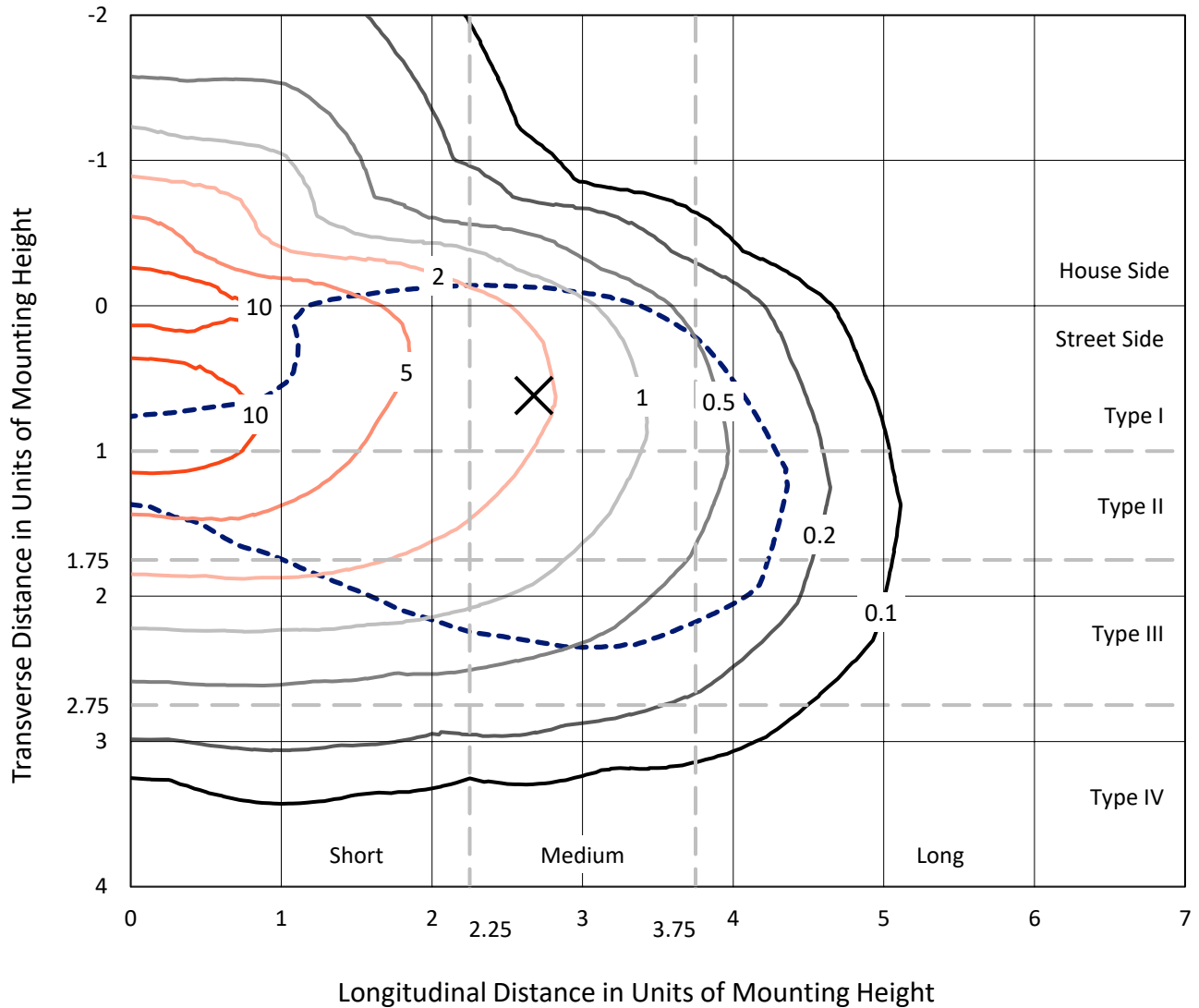
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

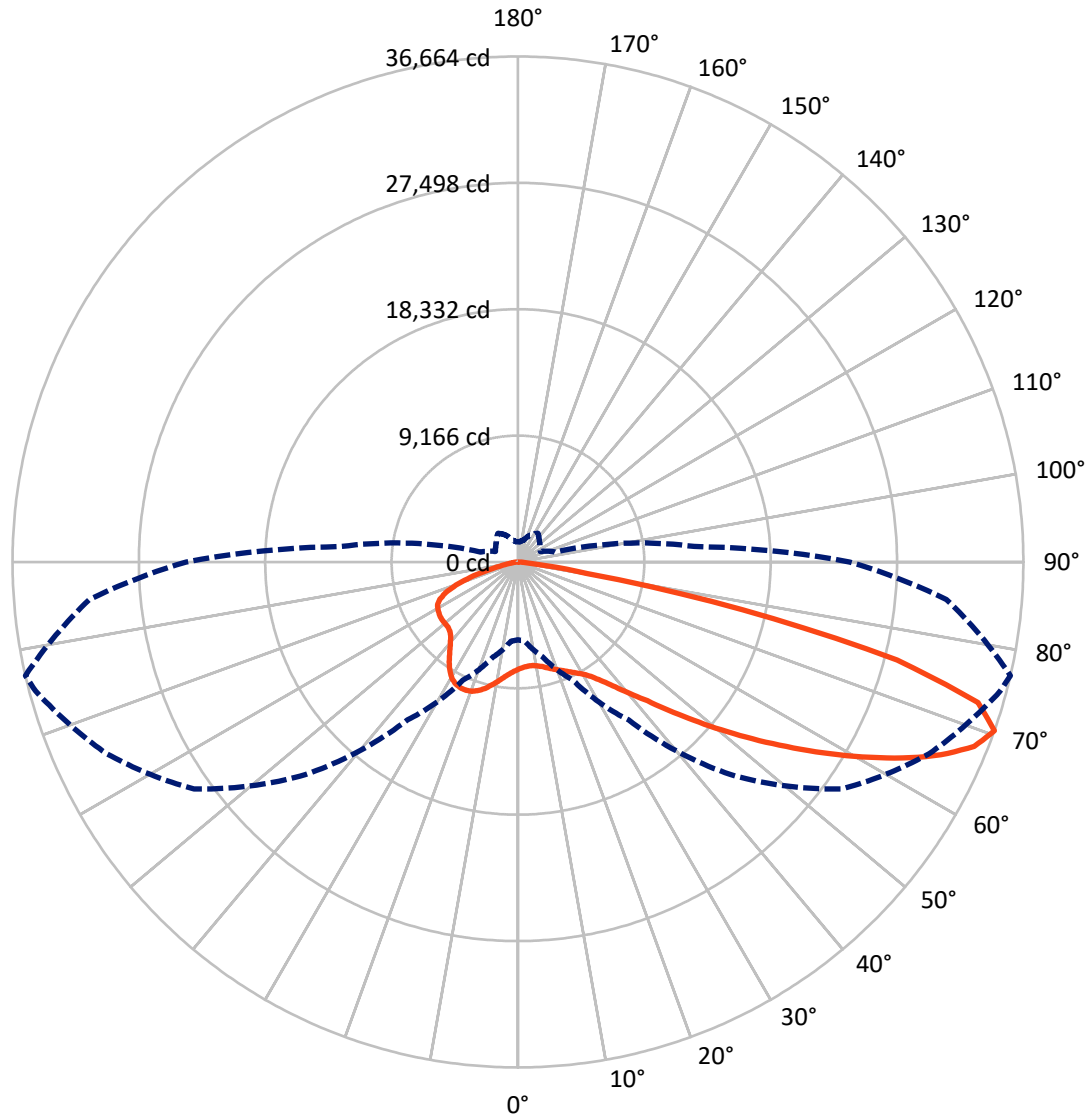
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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 | 12198.8 | 0.0 | 12198.8 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 43507.3 | 0.0 | 43507.3 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 55706.0 | 0.0 | 55706.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 741.2 | 1.3 |
| 10°-20° | 2139.2 | 3.8 |
| 20°-30° | 3658.2 | 6.6 |
| 30°-40° | 5882.8 | 10.6 |
| 40°-50° | 9184.7 | 16.5 |
| 50°-60° | 12268.5 | 22.0 |
| 60°-70° | 13076.3 | 23.5 |
| 70°-80° | 8049.7 | 14.5 |
| 80°-90° | 705.4 | 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° | 55706.0 | 100.0 |
| 0°-180° | 55706.0 | 100.0 |

Coefficient of Utilization

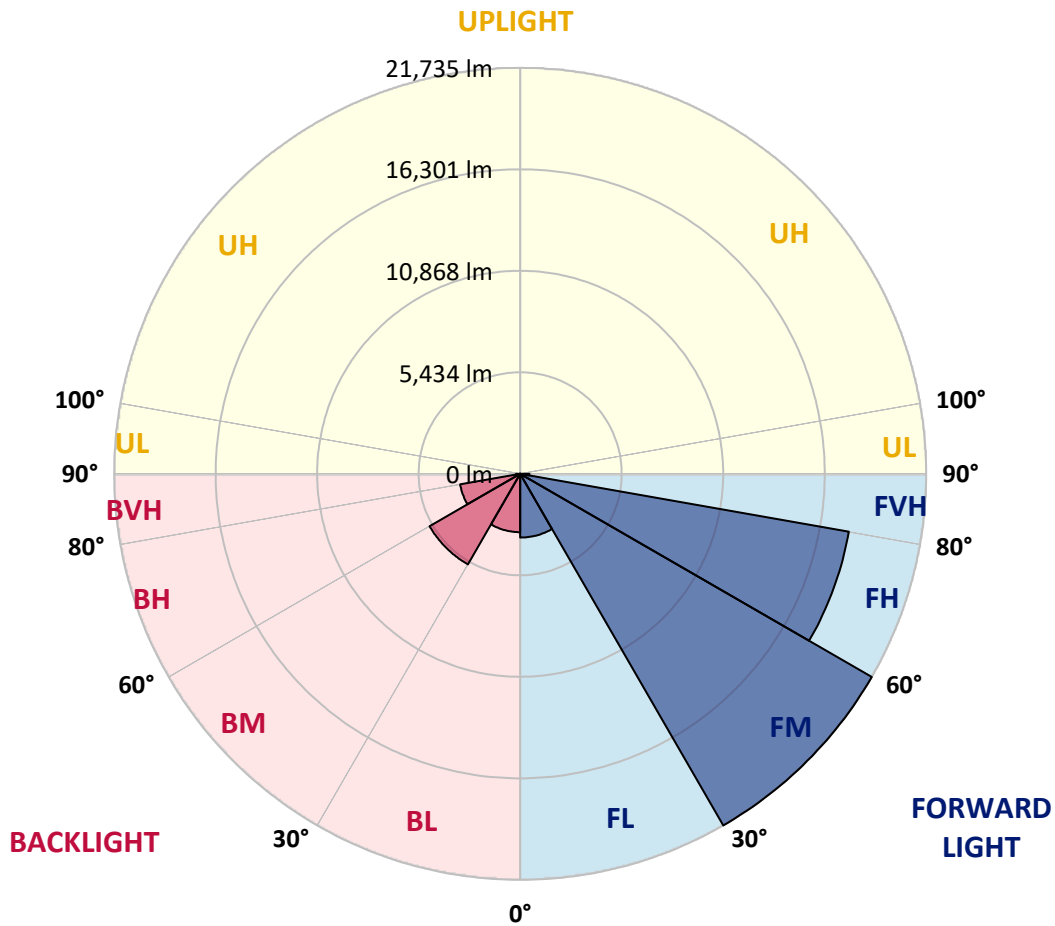


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3412.9 | 6.1 | | | |
| FM (30°-60°) | 21735.3 | 39.0 | | | |
| FH (60°-80°) | 17865.8 | 32.1 | | | G5 |
| FVH (80°-90°) | 493.2 | 0.9 | | | G3/500 |
| BL (0°-30°) | 3125.7 | 5.6 | B4/5000 | | |
| BM (30°-60°) | 5600.7 | 10.1 | B4/8500 | | |
| BH (60°-80°) | 3260.2 | 5.9 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 212.1 | 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° | 7771.5 | 7771.5 | 7771.5 | 7771.5 | 7771.5 | 7771.5 | 7771.5 | 7771.5 | 7771.5 | 7771.5 |
| 2.5° | 7163.8 | 7161.0 | 7198.0 | 7209.5 | 7277.9 | 7326.4 | 7417.7 | 7514.7 | 7640.3 | 7654.5 |
| 5° | 6750.1 | 6750.1 | 6792.9 | 6838.6 | 6927.0 | 7024.0 | 7163.8 | 7332.1 | 7549.0 | 7583.2 |
| 7.5° | 6399.2 | 6422.0 | 6459.1 | 6547.6 | 6650.3 | 6790.1 | 7004.0 | 7243.7 | 7529.0 | 7583.2 |
| 10° | 6116.8 | 6142.4 | 6188.1 | 6259.4 | 6413.5 | 6607.5 | 6887.1 | 7195.2 | 7577.5 | 7663.1 |
| 12.5° | 6028.3 | 6054.0 | 6079.7 | 6133.9 | 6276.5 | 6504.8 | 6838.6 | 7218.0 | 7694.5 | 7780.1 |
| 15° | 6233.7 | 6265.1 | 6245.2 | 6230.9 | 6305.1 | 6513.3 | 6861.4 | 7300.8 | 7840.0 | 7962.6 |
| 17.5° | 6707.3 | 6718.7 | 6673.1 | 6539.0 | 6527.6 | 6638.9 | 6969.8 | 7414.9 | 8022.6 | 8156.6 |
| 20° | 7471.9 | 7452.0 | 7357.8 | 7092.5 | 6941.3 | 6918.5 | 7155.3 | 7586.1 | 8210.9 | 8353.5 |
| 22.5° | 8510.4 | 8487.6 | 8299.3 | 7879.9 | 7543.3 | 7320.7 | 7423.4 | 7808.6 | 8422.0 | 8581.7 |
| 25° | 9805.7 | 9774.3 | 9497.5 | 8926.9 | 8404.9 | 7854.2 | 7788.6 | 8102.4 | 8681.6 | 8829.9 |
| 27.5° | 11317.7 | 11292.1 | 10992.5 | 10239.3 | 9486.1 | 8584.6 | 8242.2 | 8447.6 | 8952.6 | 9121.0 |
| 30° | 12943.9 | 13018.1 | 12487.5 | 11677.2 | 10724.3 | 9537.5 | 8852.8 | 8872.7 | 9303.5 | 9454.7 |
| 32.5° | 14855.4 | 14983.8 | 14344.7 | 13317.7 | 12016.7 | 10573.1 | 9623.1 | 9466.2 | 9814.2 | 9939.8 |
| 35° | 16749.8 | 16895.3 | 16364.6 | 15229.2 | 13731.4 | 11794.2 | 10427.6 | 10148.0 | 10493.2 | 10630.2 |
| 37.5° | 18387.4 | 18581.4 | 18307.5 | 17320.4 | 15565.8 | 13266.3 | 11477.5 | 10949.7 | 11329.2 | 11500.3 |
| 40° | 19679.8 | 19976.5 | 19956.5 | 19340.3 | 17728.4 | 15052.3 | 12809.8 | 11939.7 | 12367.6 | 12553.1 |
| 42.5° | 20729.7 | 20986.5 | 21209.0 | 21177.6 | 19985.1 | 17080.7 | 14376.1 | 13226.4 | 13551.6 | 13765.6 |
| 45° | 21454.3 | 21728.2 | 22207.5 | 22723.9 | 22156.2 | 19251.9 | 16170.6 | 14752.7 | 15049.4 | 15371.8 |
| 47.5° | 22102.0 | 22412.9 | 23034.9 | 23853.7 | 23999.2 | 21431.5 | 18136.3 | 16530.1 | 16801.2 | 17134.9 |
| 50° | 22159.0 | 22427.2 | 23391.5 | 24552.7 | 25308.7 | 23525.6 | 20247.5 | 18524.3 | 18778.3 | 19134.9 |
| 52.5° | 20781.0 | 21203.3 | 22886.5 | 24532.7 | 25910.7 | 25277.3 | 22344.5 | 20598.5 | 20883.8 | 21311.7 |
| 55° | 16130.7 | 16749.8 | 21405.8 | 23768.1 | 25696.7 | 26410.0 | 24338.7 | 22803.8 | 23169.0 | 23616.9 |
| 57.5° | 13894.0 | 14165.0 | 16992.3 | 22375.9 | 24721.0 | 26703.8 | 26022.0 | 25032.0 | 25619.7 | 26110.4 |
| 60° | 12487.5 | 12712.8 | 14384.7 | 20210.5 | 23437.2 | 26238.8 | 27322.9 | 27108.9 | 28124.6 | 28709.5 |
| 62.5° | 10981.1 | 11195.1 | 12715.7 | 16875.3 | 21793.9 | 25465.6 | 28144.6 | 29026.1 | 30692.3 | 31331.3 |
| 65° | 9486.1 | 9668.7 | 11126.6 | 14179.3 | 19705.5 | 24692.5 | 28569.7 | 30683.7 | 33068.8 | 33730.7 |
| 67.5° | 7820.0 | 7971.2 | 9349.2 | 11962.5 | 17166.3 | 23634.0 | 28780.8 | 31987.5 | 35137.2 | 35704.9 |
| 70° | 5643.2 | 5760.2 | 7183.8 | 9460.5 | 13979.6 | 21813.8 | 28695.2 | 32911.9 | 36209.9 | 36663.5 |
| 72.5° | 2667.5 | 2773.1 | 4444.9 | 6142.4 | 9874.1 | 18270.4 | 26963.4 | 32178.7 | 35120.1 | 34894.7 |
| 75° | 1423.6 | 1514.9 | 2553.4 | 3369.4 | 5215.2 | 12524.5 | 22064.9 | 27719.5 | 29491.2 | 28395.6 |
| 77.5° | 964.3 | 1035.6 | 1580.5 | 2022.8 | 2382.2 | 5945.6 | 14182.1 | 19191.9 | 18464.4 | 16655.6 |
| 80° | 764.6 | 838.8 | 1295.2 | 1369.4 | 1152.6 | 2148.3 | 5860.0 | 8884.2 | 6382.1 | 5104.0 |
| 82.5° | 587.7 | 670.4 | 1089.8 | 992.8 | 627.7 | 881.6 | 1706.1 | 2810.2 | 1634.8 | 1243.9 |
| 85° | 359.5 | 447.9 | 855.9 | 633.4 | 353.8 | 402.3 | 579.2 | 781.7 | 499.3 | 416.5 |
| 87.5° | 182.6 | 256.8 | 433.7 | 231.1 | 159.8 | 94.1 | 154.1 | 154.1 | 131.2 | 114.1 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7771.5 | 0° | 7771.5 | 7771.5 | 7771.5 | 7771.5 | 7771.5 | 7771.5 | 7771.5 | 7771.5 | 7771.5 | 7771.5 |
| 7731.6 | 2.5° | 7800.0 | 7857.1 | 7954.1 | 8045.4 | 8116.7 | 8185.2 | 8253.6 | 8290.7 | 8302.1 | 8347.8 |
| 7774.3 | 5° | 7891.3 | 7996.9 | 8185.2 | 8362.1 | 8473.3 | 8541.8 | 8590.3 | 8618.8 | 8624.5 | 8638.8 |
| 7891.3 | 7.5° | 8059.6 | 8228.0 | 8490.4 | 8667.3 | 8750.1 | 8744.4 | 8724.4 | 8653.1 | 8624.5 | 8598.9 |
| 8062.5 | 10° | 8296.4 | 8519.0 | 8841.4 | 8964.0 | 8912.7 | 8775.7 | 8598.9 | 8390.6 | 8293.6 | 8199.4 |
| 8296.4 | 12.5° | 8590.3 | 8872.7 | 9189.4 | 9183.7 | 8929.8 | 8578.9 | 8168.1 | 7848.5 | 7646.0 | 7500.5 |
| 8584.6 | 15° | 8946.9 | 9272.2 | 9514.7 | 9320.7 | 8764.3 | 8133.8 | 7531.8 | 7115.3 | 6932.7 | 6773.0 |
| 8875.6 | 17.5° | 9315.0 | 9663.0 | 9774.3 | 9277.9 | 8347.8 | 7474.8 | 6792.9 | 6464.8 | 6285.1 | 6199.5 |
| 9189.4 | 20° | 9674.4 | 10019.6 | 9928.3 | 9032.5 | 7714.4 | 6727.3 | 6119.6 | 5939.9 | 5902.8 | 5922.8 |
| 9494.7 | 22.5° | 10053.9 | 10362.0 | 9959.7 | 8558.9 | 6907.0 | 5962.7 | 5628.9 | 5634.6 | 5717.4 | 5777.3 |
| 9814.2 | 25° | 10441.9 | 10650.1 | 9877.0 | 7874.2 | 6039.7 | 5400.7 | 5317.9 | 5409.2 | 5571.9 | 5688.8 |
| 10173.7 | 27.5° | 10815.6 | 10906.9 | 9697.3 | 7026.9 | 5295.1 | 4998.4 | 5012.7 | 5201.0 | 5446.3 | 5608.9 |
| 10610.2 | 30° | 11237.9 | 11135.1 | 9352.0 | 6074.0 | 4778.7 | 4653.2 | 4773.0 | 4992.7 | 5238.1 | 5383.6 |
| 11160.8 | 32.5° | 11714.3 | 11332.0 | 8804.3 | 5192.4 | 4413.5 | 4376.5 | 4573.3 | 4716.0 | 4824.4 | 4867.2 |
| 11891.2 | 35° | 12307.7 | 11608.7 | 8102.4 | 4573.3 | 4085.5 | 4173.9 | 4362.2 | 4290.9 | 4248.1 | 4225.3 |
| 12872.6 | 37.5° | 13078.0 | 11982.5 | 7280.8 | 4171.0 | 3820.1 | 4028.4 | 4105.4 | 3882.9 | 3714.6 | 3631.8 |
| 14062.3 | 40° | 14005.2 | 12530.3 | 6490.5 | 3860.1 | 3651.8 | 3902.9 | 3768.8 | 3500.6 | 3286.6 | 3169.7 |
| 15400.3 | 42.5° | 15035.2 | 13103.7 | 5825.8 | 3626.1 | 3557.7 | 3800.2 | 3520.6 | 3201.0 | 2855.8 | 2818.7 |
| 16995.2 | 45° | 16116.4 | 13694.3 | 5372.1 | 3446.4 | 3512.0 | 3711.7 | 3377.9 | 2861.5 | 2616.2 | 2767.4 |
| 18595.7 | 47.5° | 17197.7 | 14236.3 | 5098.3 | 3312.3 | 3489.2 | 3611.9 | 3252.4 | 2673.2 | 2499.2 | 2718.9 |
| 20310.3 | 50° | 18401.7 | 14721.3 | 4975.6 | 3215.3 | 3463.5 | 3571.9 | 3064.1 | 2624.7 | 2376.5 | 2522.0 |
| 22084.9 | 52.5° | 19597.1 | 15097.9 | 4884.3 | 3118.3 | 3426.4 | 3540.5 | 2972.8 | 2567.7 | 2228.2 | 2236.7 |
| 23870.8 | 55° | 20789.6 | 15343.3 | 4784.4 | 2989.9 | 3343.7 | 3472.1 | 2964.2 | 2504.9 | 2116.9 | 2077.0 |
| 25759.5 | 57.5° | 22062.0 | 15483.1 | 4661.8 | 2847.3 | 3201.0 | 3298.0 | 2955.7 | 2456.4 | 2082.7 | 2017.1 |
| 27690.9 | 60° | 23357.3 | 15688.5 | 4502.0 | 2673.2 | 3009.9 | 3089.8 | 2935.7 | 2439.3 | 2062.7 | 1951.4 |
| 29511.1 | 62.5° | 24518.4 | 15759.8 | 4310.8 | 2507.8 | 2764.5 | 2884.4 | 2892.9 | 2425.0 | 2008.5 | 1817.3 |
| 31023.2 | 65° | 25280.2 | 15451.7 | 3977.0 | 2319.5 | 2499.2 | 2673.2 | 2810.2 | 2376.5 | 1911.5 | 1720.3 |
| 31770.7 | 67.5° | 25248.8 | 14573.0 | 3454.9 | 2077.0 | 2242.4 | 2439.3 | 2690.4 | 2293.8 | 1794.5 | 1600.5 |
| 31205.8 | 70° | 24073.4 | 12838.4 | 2793.1 | 1794.5 | 1960.0 | 2188.2 | 2536.3 | 2171.1 | 1654.7 | 1469.3 |
| 27748.0 | 72.5° | 20647.0 | 10048.2 | 2028.5 | 1463.6 | 1631.9 | 1928.6 | 2336.6 | 2022.8 | 1512.1 | 1352.3 |
| 20507.2 | 75° | 14749.9 | 6359.3 | 1375.1 | 1124.1 | 1269.6 | 1634.8 | 2088.4 | 1848.7 | 1380.8 | 1358.0 |
| 10270.7 | 77.5° | 7534.7 | 3038.4 | 910.1 | 821.7 | 884.4 | 1289.5 | 1754.6 | 1651.9 | 1400.8 | 1121.2 |
| 2921.4 | 80° | 2450.7 | 1121.2 | 573.4 | 559.2 | 587.7 | 858.7 | 1358.0 | 1355.2 | 1061.3 | 761.7 |
| 707.5 | 82.5° | 781.7 | 482.2 | 373.7 | 359.5 | 345.2 | 539.2 | 947.2 | 1072.7 | 716.1 | 482.2 |
| 253.9 | 85° | 311.0 | 288.2 | 219.7 | 202.6 | 145.5 | 253.9 | 496.4 | 713.2 | 533.5 | 348.1 |
| 65.6 | 87.5° | 114.1 | 114.1 | 59.9 | 42.8 | 31.4 | 85.6 | 134.1 | 214.0 | 305.3 | 179.7 |
| 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> |
|-------------|
| 7771.5 |
| 8373.5 |
| 8661.6 |
| 8604.6 |
| 8170.9 |
| 7466.2 |
| 6755.8 |
| 6225.2 |
| 5914.2 |
| 5791.5 |
| 5720.2 |
| 5648.9 |
| 5417.8 |
| 4890.0 |
| 4248.1 |
| 3651.8 |
| 3178.2 |
| 2855.8 |
| 2847.3 |
| 2821.6 |
| 2630.4 |
| 2296.6 |
| 2105.5 |
| 2025.6 |
| 1960.0 |
| 1817.3 |
| 1720.3 |
| 1609.1 |
| 1486.4 |
| 1343.7 |
| 1281.0 |
| 998.5 |
| 673.3 |
| 479.3 |
| 356.6 |
| 176.9 |
| 0.0 |

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