

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: STREETWORKS

Report Number: P638239

Luminaire Tested: **IFLD-L-SA7D-760-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638239
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-760-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38379.3 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

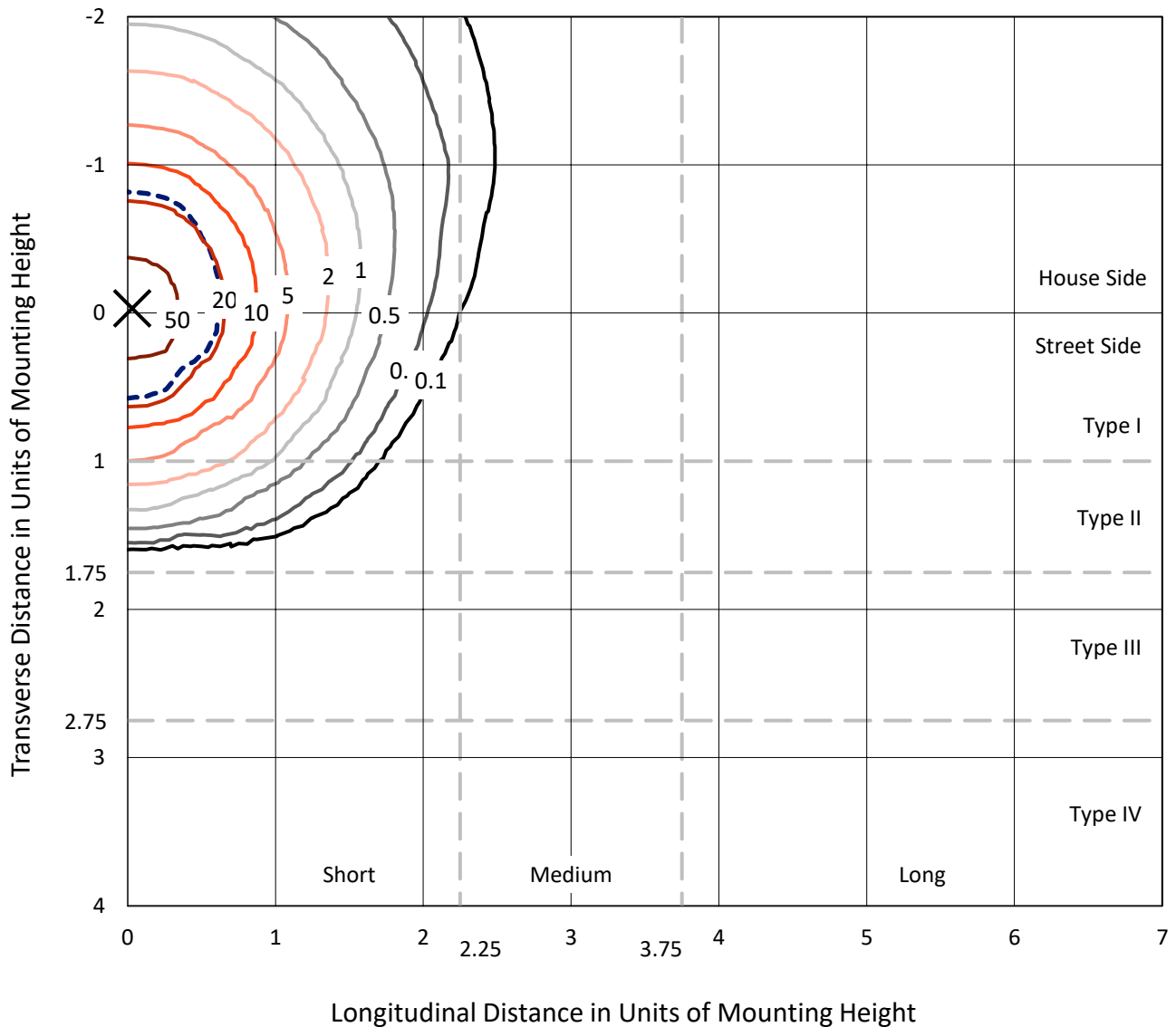
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638239
 CATALOG NUMBER: IFLD-L-SA7D-760-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

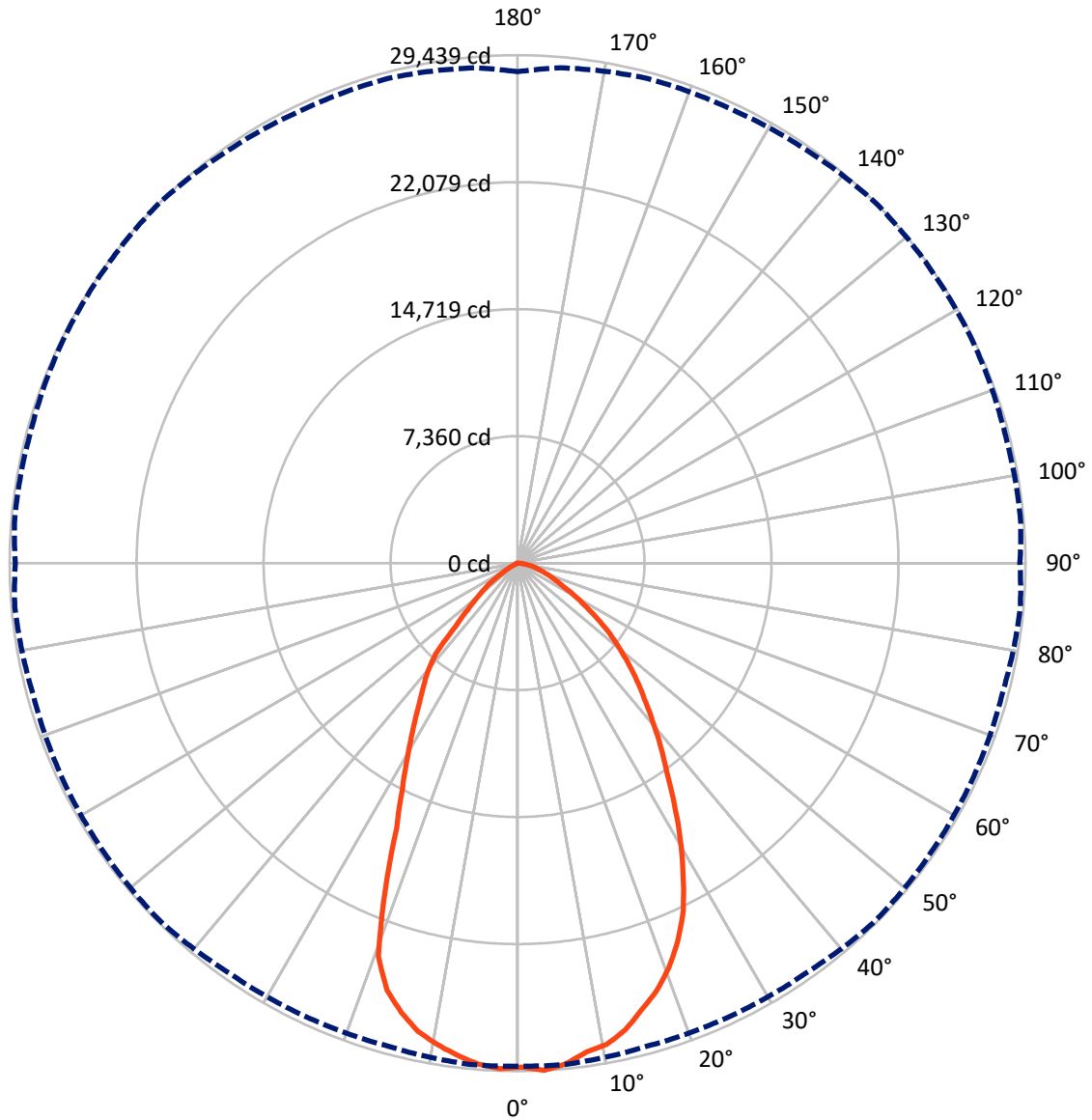
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 73 fc
 Type I - Short - N/A

REPORT NUMBER: P638239
CATALOG NUMBER: IFLD-L-SA7D-760-U-77-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P638239

CATALOG NUMBER: IFLD-L-SA7D-760-U-77-VI

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 22730.2 | 0.0 | 22730.2 |
| | % Fixture | 59.2 | 0.0 | 59.2 |
| Street Side | Lumens | 15649.1 | 0.0 | 15649.1 |
| | % Fixture | 40.8 | 0.0 | 40.8 |
| Total | Lumens | 38379.3 | 0.0 | 38379.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 2739.1 | 7.1 |
| 10°-20° | 7345.1 | 19.1 |
| 20°-30° | 8957.7 | 23.3 |
| 30°-40° | 8178.3 | 21.3 |
| 40°-50° | 5910.3 | 15.4 |
| 50°-60° | 3227.1 | 8.4 |
| 60°-70° | 1334.3 | 3.5 |
| 70°-80° | 540.4 | 1.4 |
| 80°-90° | 147.0 | 0.4 |
| 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° | 38379.3 | 100.0 |
| 0°-180° | 38379.3 | 100.0 |



REPORT NUMBER: P638239

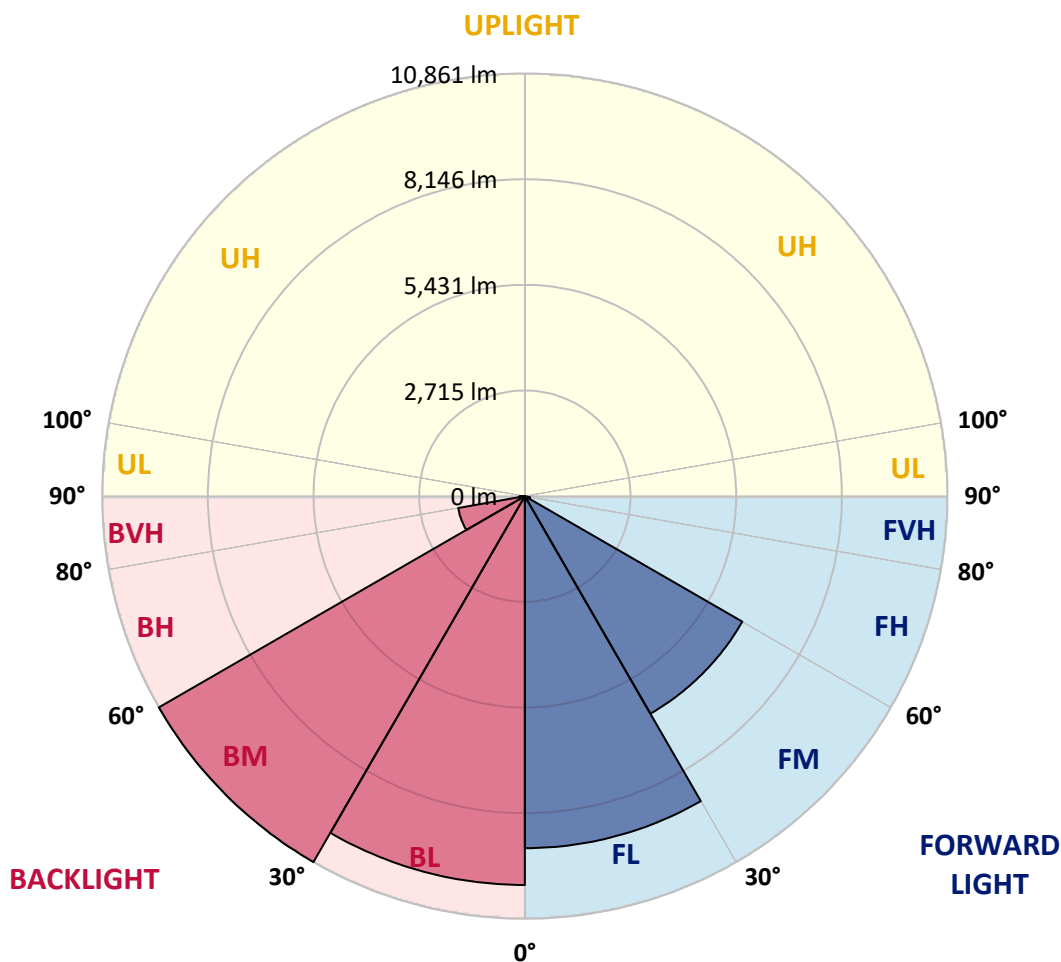
CATALOG NUMBER: IFLD-L-SA7D-760-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 9047.4 | 23.6 | | | |
| FM (30°-60°) | 6454.7 | 16.8 | | | |
| FH (60°-80°) | 135.2 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 11.8 | 0.0 | | | G1/100 |
| BL (0°-30°) | 9994.5 | 26.0 | B5 | | |
| BM (30°-60°) | 10861.0 | 28.3 | B5 | | |
| BH (60°-80°) | 1739.4 | 4.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 135.2 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type I Short





REPORT NUMBER: P638239
 CATALOG NUMBER: IFLD-L-SA7D-760-U-77-VI

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 29206.5 | 29206.5 | 29206.5 | 29206.5 | 29206.5 | 29206.5 | 29206.5 | 29206.5 | 29206.5 | 29206.5 |
| 2.5° | 29152.5 | 29190.3 | 28984.9 | 29006.6 | 29044.4 | 29320.0 | 29249.8 | 29184.9 | 29093.0 | 29249.8 |
| 5° | 29114.7 | 29136.3 | 28920.1 | 28844.4 | 28876.9 | 29125.5 | 28898.5 | 28898.5 | 28876.9 | 28849.8 |
| 7.5° | 28822.8 | 28833.6 | 28666.1 | 28531.0 | 28617.4 | 28730.9 | 28563.4 | 28644.5 | 28525.6 | 28617.4 |
| 10° | 28385.0 | 28314.8 | 28114.8 | 28077.0 | 28174.3 | 28282.3 | 28168.8 | 28244.5 | 28136.4 | 28206.7 |
| 12.5° | 27741.9 | 27633.8 | 27471.7 | 27423.0 | 27590.6 | 27736.5 | 27644.6 | 27601.4 | 27460.8 | 27633.8 |
| 15° | 25261.2 | 25180.1 | 25547.6 | 26190.8 | 26769.1 | 26893.4 | 26796.1 | 26839.3 | 26547.5 | 26596.1 |
| 17.5° | 20791.5 | 20640.2 | 21034.8 | 22558.9 | 24731.5 | 25877.3 | 25790.8 | 25509.8 | 25077.4 | 25174.7 |
| 20° | 18894.5 | 18851.3 | 18808.1 | 19170.2 | 20688.9 | 24164.0 | 24282.9 | 23569.5 | 22953.4 | 22818.3 |
| 22.5° | 17824.4 | 17808.2 | 17765.0 | 17846.0 | 18246.0 | 20478.1 | 21840.0 | 21180.7 | 20769.9 | 20732.1 |
| 25° | 16846.2 | 16819.2 | 16689.4 | 16792.1 | 16792.1 | 16921.8 | 18667.5 | 19067.5 | 18705.4 | 18662.1 |
| 27.5° | 15851.7 | 15803.1 | 15781.5 | 15830.1 | 15581.5 | 14706.0 | 15149.1 | 17100.2 | 16911.0 | 16921.8 |
| 30° | 14776.2 | 14760.0 | 14700.5 | 14803.2 | 14035.8 | 12949.5 | 12668.4 | 15316.7 | 15354.5 | 15343.7 |
| 32.5° | 13176.4 | 13246.7 | 13516.9 | 13630.4 | 12365.8 | 11468.6 | 10998.4 | 13252.1 | 14025.0 | 14008.8 |
| 35° | 9571.6 | 9571.6 | 10452.5 | 12090.1 | 10836.3 | 10160.7 | 9906.7 | 11236.2 | 12711.7 | 12765.7 |
| 37.5° | 7869.1 | 7896.1 | 8069.1 | 8814.9 | 9350.0 | 9112.2 | 9036.5 | 9458.1 | 11025.4 | 11111.9 |
| 40° | 7080.0 | 7080.0 | 7080.0 | 6772.0 | 6755.8 | 8209.6 | 8166.4 | 8031.3 | 9522.9 | 9712.1 |
| 42.5° | 6361.2 | 6377.4 | 6388.3 | 5610.0 | 5177.6 | 7096.3 | 6999.0 | 6793.6 | 8177.2 | 8398.8 |
| 45° | 5620.8 | 5647.8 | 5680.2 | 4691.2 | 4502.0 | 5107.4 | 5923.5 | 5696.5 | 6847.6 | 7134.1 |
| 47.5° | 3431.9 | 3475.2 | 4210.2 | 3977.8 | 3999.4 | 3940.0 | 4831.7 | 4793.9 | 5615.4 | 6020.7 |
| 50° | 2318.6 | 2334.8 | 2405.1 | 2524.0 | 3431.9 | 3096.8 | 3421.1 | 3967.0 | 4264.2 | 4880.4 |
| 52.5° | 1945.7 | 1972.7 | 1799.7 | 1637.6 | 2253.7 | 2421.3 | 2388.8 | 2945.5 | 3064.4 | 3826.5 |
| 55° | 1367.4 | 1453.8 | 1372.8 | 1356.6 | 1280.9 | 1880.8 | 1810.5 | 2264.5 | 2340.2 | 2907.7 |
| 57.5° | 140.5 | 162.1 | 281.0 | 1010.7 | 837.7 | 1064.7 | 1291.7 | 1659.2 | 1734.9 | 2145.6 |
| 60° | 10.8 | 10.8 | 27.0 | 140.5 | 610.7 | 637.7 | 891.8 | 1021.5 | 1167.4 | 1497.1 |
| 62.5° | 0.0 | 5.4 | 10.8 | 21.6 | 97.3 | 340.5 | 448.6 | 535.1 | 702.6 | 967.4 |
| 65° | 0.0 | 0.0 | 5.4 | 16.2 | 21.6 | 129.7 | 172.9 | 281.0 | 383.7 | 599.9 |
| 67.5° | 0.0 | 0.0 | 5.4 | 10.8 | 16.2 | 32.4 | 59.5 | 102.7 | 205.4 | 340.5 |
| 70° | 0.0 | 0.0 | 5.4 | 10.8 | 16.2 | 27.0 | 43.2 | 64.9 | 91.9 | 183.8 |
| 72.5° | 0.0 | 0.0 | 5.4 | 5.4 | 10.8 | 27.0 | 32.4 | 43.2 | 64.9 | 91.9 |
| 75° | 0.0 | 0.0 | 5.4 | 5.4 | 16.2 | 32.4 | 27.0 | 32.4 | 43.2 | 59.5 |
| 77.5° | 0.0 | 0.0 | 5.4 | 10.8 | 16.2 | 32.4 | 27.0 | 32.4 | 32.4 | 37.8 |
| 80° | 0.0 | 0.0 | 5.4 | 10.8 | 21.6 | 37.8 | 32.4 | 32.4 | 27.0 | 27.0 |
| 82.5° | 0.0 | 0.0 | 5.4 | 16.2 | 21.6 | 48.6 | 48.6 | 43.2 | 21.6 | 16.2 |
| 85° | 0.0 | 0.0 | 10.8 | 21.6 | 32.4 | 54.0 | 54.0 | 43.2 | 16.2 | 10.8 |
| 87.5° | 0.0 | 0.0 | 10.8 | 16.2 | 27.0 | 37.8 | 54.0 | 43.2 | 16.2 | 5.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P638239
 CATALOG NUMBER: IFLD-L-SA7D-760-U-77-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 29206.5 | 0° | 29206.5 | 29206.5 | 29206.5 | 29206.5 | 29206.5 | 29206.5 | 29206.5 | 29206.5 | 29206.5 |
| 29114.7 | 2.5° | 29260.6 | 29228.2 | 29336.2 | 29379.5 | 29438.9 | 29211.9 | 29071.4 | 29076.8 | 28817.4 |
| 28785.0 | 5° | 28957.9 | 28963.3 | 29103.8 | 29093.0 | 29152.5 | 29028.2 | 28974.1 | 28882.3 | 28655.3 |
| 28368.8 | 7.5° | 28574.2 | 28525.6 | 28660.7 | 28763.4 | 28612.0 | 28698.5 | 28574.2 | 28617.4 | 28482.3 |
| 28001.3 | 10° | 28276.9 | 28163.4 | 28287.7 | 28358.0 | 28363.4 | 28276.9 | 28158.0 | 28044.5 | 27995.9 |
| 27428.4 | 12.5° | 27617.6 | 27471.7 | 27682.4 | 27779.7 | 27763.5 | 27596.0 | 27460.8 | 27487.9 | 27331.1 |
| 26423.2 | 15° | 26709.6 | 26715.0 | 26866.3 | 26958.2 | 26871.7 | 26833.9 | 26844.7 | 26779.9 | 26644.7 |
| 25034.2 | 17.5° | 25320.6 | 25401.7 | 25801.6 | 26023.2 | 26071.9 | 25996.2 | 25958.4 | 25882.7 | 25747.6 |
| 22818.3 | 20° | 23007.4 | 23493.9 | 24207.3 | 24893.7 | 25028.8 | 25007.1 | 24872.0 | 24839.6 | 24763.9 |
| 20624.0 | 22.5° | 20975.3 | 21337.4 | 22164.3 | 23234.4 | 23785.7 | 23839.8 | 23677.6 | 23629.0 | 23547.9 |
| 18662.1 | 25° | 18872.9 | 19262.0 | 20007.9 | 21169.9 | 22310.2 | 22542.6 | 22515.6 | 22369.7 | 22283.2 |
| 16921.8 | 27.5° | 17100.2 | 17489.3 | 18164.9 | 19213.4 | 20434.8 | 21180.7 | 21250.9 | 21018.5 | 21013.1 |
| 15370.7 | 30° | 15500.4 | 16035.5 | 16548.9 | 17402.9 | 18586.5 | 19705.2 | 19824.1 | 19662.0 | 19678.2 |
| 13949.3 | 32.5° | 14246.6 | 14689.7 | 15127.5 | 15700.4 | 16684.0 | 17986.6 | 18451.4 | 18300.0 | 18240.6 |
| 12765.7 | 35° | 12965.7 | 13268.3 | 13716.9 | 14241.2 | 14911.3 | 16203.0 | 17008.3 | 16894.8 | 16835.4 |
| 11165.9 | 37.5° | 11506.4 | 12025.3 | 12349.5 | 12938.6 | 13462.9 | 14489.8 | 15624.7 | 15608.5 | 15484.2 |
| 9804.0 | 40° | 10009.3 | 10555.2 | 11047.0 | 11641.5 | 12046.9 | 12863.0 | 14122.3 | 14116.9 | 14133.1 |
| 8393.4 | 42.5° | 8652.8 | 9155.4 | 9749.9 | 10398.5 | 10787.6 | 11382.1 | 12733.3 | 12808.9 | 12900.8 |
| 7231.4 | 45° | 7425.9 | 7879.9 | 8431.2 | 9220.3 | 9690.5 | 10031.0 | 11230.8 | 11576.7 | 11571.3 |
| 6193.7 | 47.5° | 6323.4 | 6750.4 | 7215.2 | 7982.6 | 8582.5 | 8890.6 | 9885.0 | 10376.9 | 10344.4 |
| 5080.3 | 50° | 5307.3 | 5685.7 | 6172.1 | 6728.7 | 7534.0 | 7804.3 | 8544.7 | 9193.2 | 9144.6 |
| 4048.1 | 52.5° | 4269.6 | 4793.9 | 5204.6 | 5712.7 | 6561.2 | 6826.0 | 7398.9 | 8031.3 | 7993.4 |
| 3037.4 | 55° | 3329.2 | 3837.3 | 4334.5 | 4772.3 | 5485.7 | 5880.2 | 6291.0 | 6939.5 | 6928.7 |
| 2378.0 | 57.5° | 2518.6 | 3075.2 | 3545.4 | 3961.6 | 4529.1 | 5015.5 | 5345.2 | 5934.3 | 6009.9 |
| 1626.8 | 60° | 1864.6 | 2291.6 | 2799.6 | 3264.4 | 3713.0 | 4215.6 | 4437.2 | 5015.5 | 5047.9 |
| 1113.4 | 62.5° | 1270.1 | 1740.3 | 2237.5 | 2659.1 | 2994.2 | 3513.0 | 3713.0 | 4188.6 | 4248.0 |
| 713.4 | 65° | 881.0 | 1183.6 | 1751.1 | 2053.8 | 2464.5 | 2907.7 | 3107.7 | 3486.0 | 3604.9 |
| 410.8 | 67.5° | 583.7 | 843.1 | 1367.4 | 1643.0 | 2048.3 | 2351.0 | 2605.0 | 2913.1 | 3042.8 |
| 259.4 | 70° | 318.9 | 621.5 | 978.2 | 1297.1 | 1648.4 | 1940.3 | 2188.9 | 2437.5 | 2551.0 |
| 118.9 | 72.5° | 216.2 | 416.2 | 681.0 | 1026.9 | 1329.5 | 1616.0 | 1837.6 | 2021.3 | 2026.7 |
| 70.3 | 75° | 108.1 | 281.0 | 518.8 | 794.5 | 1037.7 | 1318.7 | 1518.7 | 1626.8 | 1497.1 |
| 43.2 | 77.5° | 64.9 | 205.4 | 421.6 | 637.7 | 843.1 | 1064.7 | 1178.2 | 1237.7 | 1026.9 |
| 32.4 | 80° | 37.8 | 145.9 | 329.7 | 508.0 | 583.7 | 783.7 | 891.8 | 908.0 | 686.4 |
| 21.6 | 82.5° | 27.0 | 108.1 | 259.4 | 372.9 | 356.7 | 551.3 | 670.2 | 648.6 | 437.8 |
| 16.2 | 85° | 16.2 | 75.7 | 162.1 | 232.4 | 216.2 | 362.1 | 389.1 | 399.9 | 254.0 |
| 10.8 | 87.5° | 10.8 | 43.2 | 86.5 | 124.3 | 102.7 | 156.7 | 156.7 | 189.2 | 124.3 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



| 180° |
|---------|
| 29206.5 |
| 28482.3 |
| 28601.2 |
| 28255.3 |
| 27779.7 |
| 27196.0 |
| 26509.6 |
| 25688.1 |
| 24591.0 |
| 23526.3 |
| 22191.3 |
| 21002.3 |
| 19597.1 |
| 18246.0 |
| 16754.3 |
| 15586.9 |
| 14133.1 |
| 12852.2 |
| 11582.1 |
| 10355.2 |
| 9187.8 |
| 8074.5 |
| 6955.7 |
| 5977.5 |
| 5096.6 |
| 4258.8 |
| 3577.9 |
| 3026.6 |
| 2507.7 |
| 1978.1 |
| 1399.8 |
| 989.0 |
| 643.1 |
| 405.3 |
| 232.4 |
| 108.1 |
| 0.0 |

(END OF REPORT)