

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: P636673

Luminaire Tested: **IFLD-L-SA7D-940-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636673
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-940-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28064.6 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

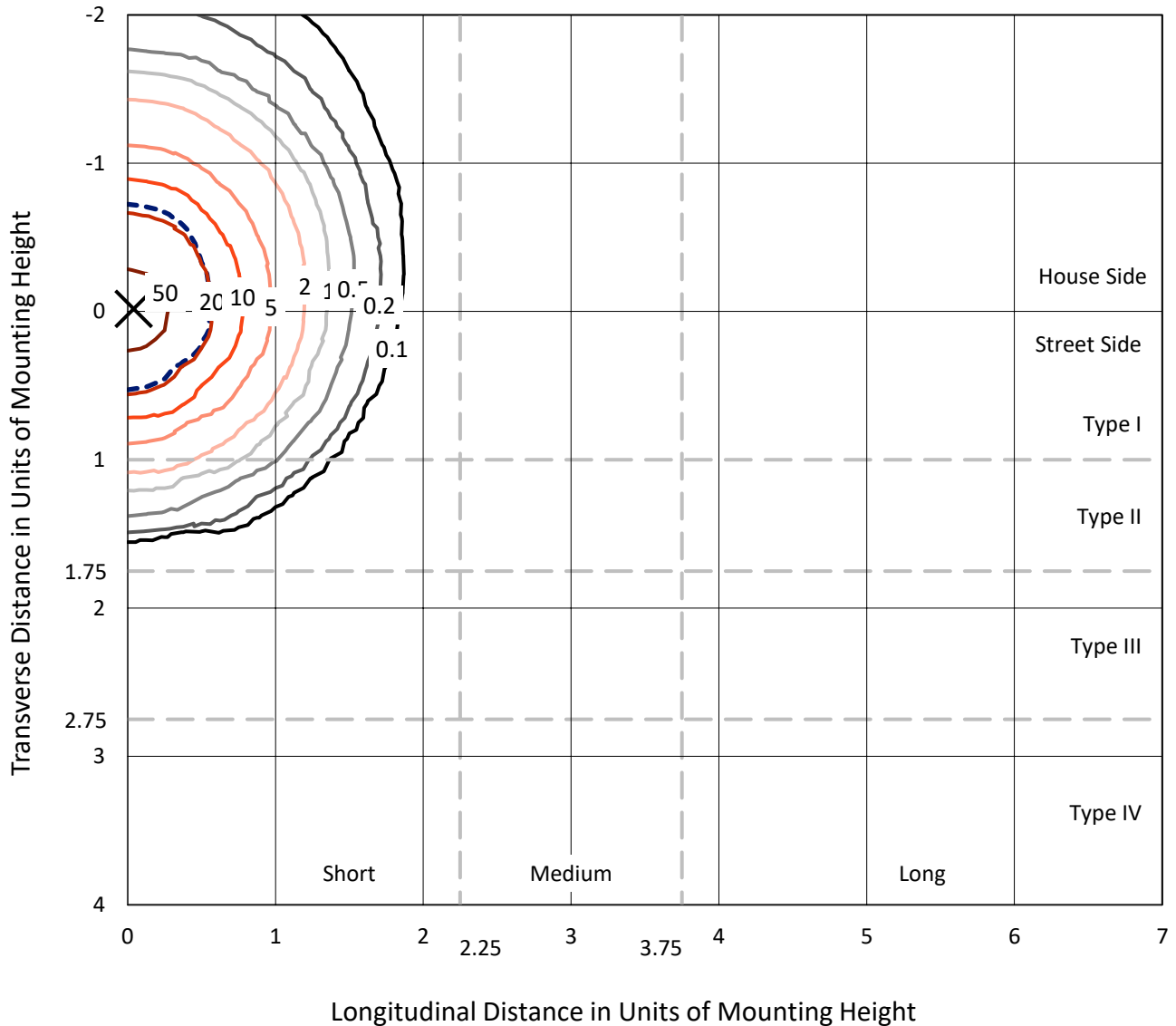
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

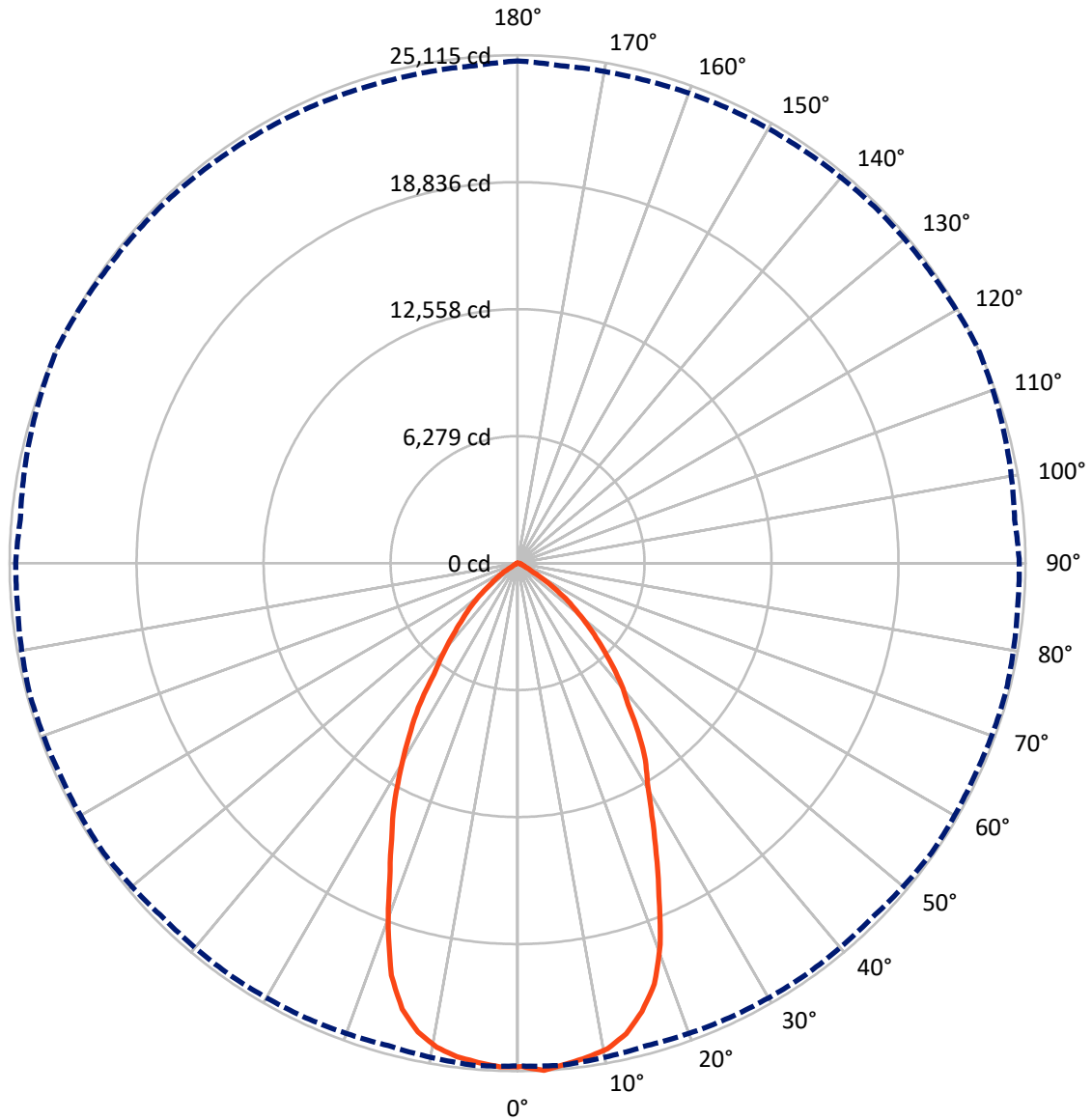
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 62.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 16061.0 | 0.0 | 16061.0 |
| | % Fixture | 57.2 | 0.0 | 57.2 |
| Street Side | Lumens | 12003.6 | 0.0 | 12003.6 |
| | % Fixture | 42.8 | 0.0 | 42.8 |
| Total | Lumens | 28064.6 | 0.0 | 28064.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 2345.3 | 8.4 |
| 10°-20° | 6218.5 | 22.2 |
| 20°-30° | 7112.7 | 25.3 |
| 30°-40° | 6095.4 | 21.7 |
| 40°-50° | 4030.5 | 14.4 |
| 50°-60° | 1758.7 | 6.3 |
| 60°-70° | 345.6 | 1.2 |
| 70°-80° | 124.7 | 0.4 |
| 80°-90° | 33.2 | 0.1 |
| 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° | 28064.6 | 100.0 |
| 0°-180° | 28064.6 | 100.0 |



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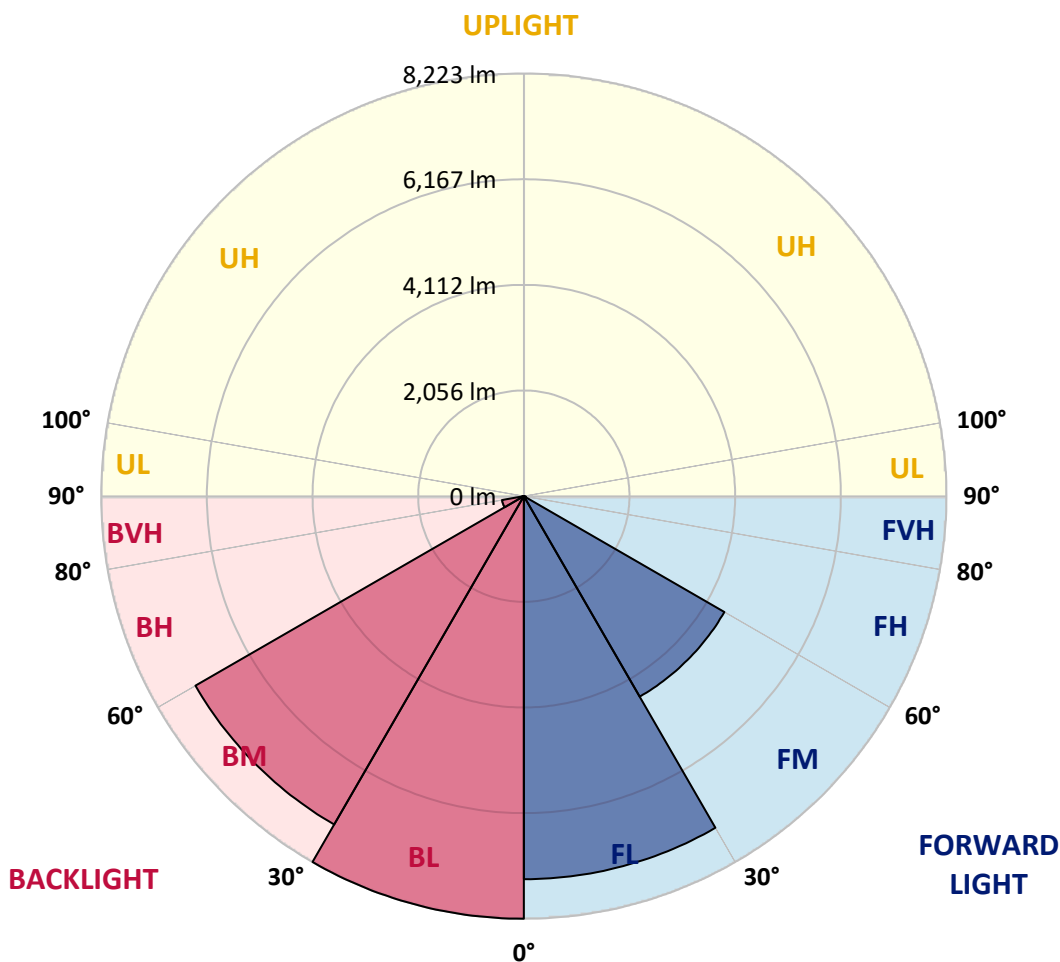
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 7453.4 | 26.6 | | | |
| FM (30°-60°) | 4506.6 | 16.1 | | | |
| FH (60°-80°) | 38.2 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 5.5 | 0.0 | | | G0/10 |
| BL (0°-30°) | 8223.2 | 29.3 | B5 | | |
| BM (30°-60°) | 7378.1 | 26.3 | B4/8500 | | |
| BH (60°-80°) | 432.1 | 1.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 27.7 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 24900.4 | 24900.4 | 24900.4 | 24900.4 | 24900.4 | 24900.4 | 24900.4 | 24900.4 | 24900.4 | 24900.4 |
| 2.5° | 24864.6 | 24924.3 | 24697.6 | 24799.0 | 24840.7 | 24787.0 | 24983.9 | 24924.3 | 24972.0 | 24822.8 |
| 5° | 24864.6 | 24924.3 | 24661.8 | 24709.5 | 24721.4 | 24620.0 | 24834.8 | 24763.2 | 24769.1 | 24614.0 |
| 7.5° | 24709.5 | 24781.1 | 24542.5 | 24578.2 | 24584.2 | 24500.7 | 24685.6 | 24584.2 | 24548.4 | 24387.4 |
| 10° | 24291.9 | 24333.7 | 24118.9 | 24208.4 | 24291.9 | 24214.3 | 24375.4 | 24262.1 | 24262.1 | 24118.9 |
| 12.5° | 23629.7 | 23707.3 | 23468.6 | 23576.0 | 23647.6 | 23558.1 | 23743.1 | 23701.3 | 23707.3 | 23564.1 |
| 15° | 22424.7 | 22156.2 | 22442.6 | 22657.3 | 22663.3 | 22645.4 | 22818.4 | 22776.6 | 22806.5 | 22591.7 |
| 17.5° | 16566.5 | 16500.8 | 16834.9 | 19370.3 | 21255.4 | 21511.9 | 21541.8 | 21315.1 | 21213.7 | 21004.9 |
| 20° | 15349.5 | 15397.2 | 15325.6 | 15337.5 | 16823.0 | 19907.2 | 19722.3 | 19161.5 | 18905.0 | 18696.2 |
| 22.5° | 14460.6 | 14383.0 | 14335.3 | 14305.5 | 14347.3 | 16357.7 | 17688.0 | 16840.9 | 16703.7 | 16602.2 |
| 25° | 13494.2 | 13458.4 | 13398.7 | 13386.8 | 13362.9 | 13022.9 | 14937.8 | 15015.4 | 14794.7 | 14669.4 |
| 27.5° | 12593.4 | 12569.5 | 12503.9 | 12497.9 | 12223.5 | 11400.3 | 11609.0 | 13452.4 | 13392.8 | 13345.0 |
| 30° | 11632.9 | 11585.2 | 11549.4 | 11549.4 | 10720.2 | 9873.1 | 9533.0 | 11728.4 | 11728.4 | 11686.6 |
| 32.5° | 10588.9 | 10547.2 | 10559.1 | 10415.9 | 9425.6 | 8650.1 | 8113.2 | 10123.6 | 10750.0 | 10714.2 |
| 35° | 6472.7 | 6460.7 | 7671.8 | 9264.6 | 8101.3 | 7397.3 | 7361.5 | 8662.0 | 9574.8 | 9670.2 |
| 37.5° | 5762.8 | 5727.0 | 5744.9 | 5846.3 | 6938.0 | 6657.6 | 6645.7 | 6866.4 | 8149.0 | 8196.7 |
| 40° | 5172.2 | 5148.3 | 5130.4 | 4766.5 | 4420.5 | 5941.7 | 5900.0 | 5756.8 | 6961.8 | 7045.4 |
| 42.5° | 4611.4 | 4587.5 | 4587.5 | 4074.5 | 3513.7 | 4885.8 | 4903.7 | 4736.7 | 5870.1 | 5900.0 |
| 45° | 4032.7 | 4014.8 | 3913.4 | 3251.2 | 3090.2 | 3245.3 | 4062.6 | 3871.7 | 4659.1 | 4969.3 |
| 47.5° | 1903.0 | 1891.1 | 2738.2 | 2702.4 | 2690.5 | 2595.0 | 3102.1 | 3209.5 | 3698.7 | 4008.9 |
| 50° | 1527.2 | 1515.3 | 1443.7 | 1270.7 | 2213.2 | 1968.6 | 2237.1 | 2469.8 | 2624.9 | 2911.2 |
| 52.5° | 1264.7 | 1252.8 | 1103.6 | 978.4 | 1228.9 | 1437.7 | 1336.3 | 1652.5 | 1646.5 | 1956.7 |
| 55° | 829.2 | 769.6 | 847.1 | 799.4 | 644.3 | 1044.0 | 1020.1 | 1252.8 | 1222.9 | 1491.4 |
| 57.5° | 17.9 | 17.9 | 41.8 | 453.4 | 405.7 | 441.5 | 584.6 | 715.9 | 805.4 | 882.9 |
| 60° | 6.0 | 6.0 | 11.9 | 23.9 | 167.0 | 184.9 | 226.7 | 262.5 | 369.9 | 459.4 |
| 62.5° | 0.0 | 0.0 | 6.0 | 11.9 | 23.9 | 95.4 | 107.4 | 125.3 | 173.0 | 238.6 |
| 65° | 0.0 | 0.0 | 0.0 | 6.0 | 11.9 | 23.9 | 35.8 | 77.6 | 107.4 | 137.2 |
| 67.5° | 0.0 | 0.0 | 0.0 | 6.0 | 6.0 | 11.9 | 23.9 | 35.8 | 47.7 | 95.4 |
| 70° | 0.0 | 0.0 | 0.0 | 6.0 | 6.0 | 11.9 | 17.9 | 23.9 | 35.8 | 47.7 |
| 72.5° | 0.0 | 0.0 | 0.0 | 6.0 | 6.0 | 17.9 | 11.9 | 17.9 | 23.9 | 29.8 |
| 75° | 0.0 | 0.0 | 0.0 | 6.0 | 6.0 | 6.0 | 11.9 | 17.9 | 17.9 | 23.9 |
| 77.5° | 0.0 | 0.0 | 0.0 | 6.0 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 17.9 |
| 80° | 0.0 | 0.0 | 0.0 | 6.0 | 6.0 | 11.9 | 17.9 | 23.9 | 11.9 | 11.9 |
| 82.5° | 0.0 | 0.0 | 0.0 | 11.9 | 6.0 | 23.9 | 35.8 | 29.8 | 11.9 | 6.0 |
| 85° | 0.0 | 0.0 | 0.0 | 6.0 | 23.9 | 29.8 | 29.8 | 17.9 | 6.0 | 6.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 6.0 | 6.0 | 11.9 | 17.9 | 17.9 | 6.0 | 6.0 |
| 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: IFLD-L-SA7D-940-U-66-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 24900.4 | 0° | 24900.4 | 24900.4 | 24900.4 | 24900.4 | 24900.4 | 24900.4 | 24900.4 | 24900.4 | 24900.4 |
| 24810.9 | 2.5° | 24673.7 | 24906.4 | 25115.2 | 24983.9 | 24936.2 | 24840.7 | 24769.1 | 24691.6 | 24685.6 |
| 24596.1 | 5° | 24458.9 | 24679.7 | 24882.5 | 24727.4 | 24739.3 | 24691.6 | 24643.9 | 24626.0 | 24637.9 |
| 24375.4 | 7.5° | 24274.0 | 24458.9 | 24679.7 | 24548.4 | 24584.2 | 24554.4 | 24530.5 | 24494.7 | 24548.4 |
| 24089.1 | 10° | 23993.6 | 24160.7 | 24417.2 | 24291.9 | 24274.0 | 24244.2 | 24220.3 | 24154.7 | 24184.5 |
| 23570.1 | 12.5° | 23379.2 | 23588.0 | 23880.3 | 23737.1 | 23784.8 | 23701.3 | 23665.5 | 23623.8 | 23629.7 |
| 22669.3 | 15° | 22544.0 | 22705.1 | 23003.3 | 22890.0 | 22925.8 | 22872.1 | 22872.1 | 22872.1 | 22913.8 |
| 21034.7 | 17.5° | 21088.4 | 21416.5 | 21887.8 | 21744.6 | 21798.3 | 21810.2 | 21798.3 | 21840.0 | 21893.7 |
| 18708.1 | 20° | 18720.0 | 19280.8 | 20139.8 | 20420.2 | 20533.6 | 20539.5 | 20456.0 | 20557.4 | 20664.8 |
| 16530.7 | 22.5° | 16542.6 | 17133.2 | 17890.8 | 18660.4 | 19137.6 | 19113.8 | 19125.7 | 19191.3 | 19304.7 |
| 14591.8 | 25° | 14657.5 | 15224.2 | 15910.2 | 16596.3 | 17640.3 | 17855.0 | 17861.0 | 17920.6 | 18010.1 |
| 13267.5 | 27.5° | 13297.3 | 13518.0 | 14144.4 | 14836.4 | 15958.0 | 16644.0 | 16608.2 | 16661.9 | 16757.4 |
| 11609.0 | 30° | 11656.8 | 12503.9 | 12647.1 | 13070.6 | 14037.0 | 15295.8 | 15301.7 | 15361.4 | 15456.9 |
| 10630.7 | 32.5° | 10600.9 | 11161.6 | 11603.1 | 11615.0 | 12438.3 | 13732.8 | 13989.3 | 14049.0 | 14114.6 |
| 9616.5 | 35° | 9610.6 | 9676.2 | 10272.8 | 10439.8 | 10917.0 | 12199.6 | 12653.0 | 12688.8 | 12796.2 |
| 8178.8 | 37.5° | 8316.0 | 8703.8 | 8870.8 | 9467.4 | 9491.3 | 10529.3 | 11430.1 | 11394.3 | 11477.8 |
| 7039.4 | 40° | 7128.9 | 7498.8 | 7922.3 | 8357.8 | 8417.5 | 9193.0 | 10189.2 | 10225.0 | 10260.8 |
| 5840.3 | 42.5° | 5888.0 | 6359.3 | 6794.8 | 7087.1 | 7492.8 | 7940.2 | 8888.7 | 9055.8 | 9139.3 |
| 5005.1 | 45° | 5094.6 | 5225.9 | 5744.9 | 6174.4 | 6586.0 | 6794.8 | 7683.7 | 7987.9 | 8041.6 |
| 3961.2 | 47.5° | 4014.8 | 4456.3 | 4808.3 | 5172.2 | 5685.2 | 5870.1 | 6514.4 | 6938.0 | 6979.7 |
| 2941.0 | 50° | 3102.1 | 3418.3 | 3901.5 | 4229.6 | 4826.2 | 4927.6 | 5369.0 | 5917.9 | 5971.6 |
| 1968.6 | 52.5° | 2219.2 | 2648.7 | 3120.0 | 3436.2 | 4008.9 | 4140.1 | 4468.2 | 4993.2 | 5029.0 |
| 1509.3 | 55° | 1592.8 | 1873.2 | 2261.0 | 2714.3 | 3131.9 | 3424.3 | 3650.9 | 4152.1 | 4199.8 |
| 990.3 | 57.5° | 1085.7 | 1348.2 | 1509.3 | 1962.7 | 2213.2 | 2529.4 | 2714.3 | 3096.1 | 3131.9 |
| 471.3 | 60° | 519.0 | 644.3 | 769.6 | 996.3 | 1157.3 | 1425.8 | 1545.1 | 1700.2 | 1742.0 |
| 286.3 | 62.5° | 334.1 | 393.7 | 501.1 | 596.6 | 751.7 | 918.7 | 966.4 | 1097.7 | 1145.4 |
| 179.0 | 65° | 220.7 | 280.4 | 393.7 | 417.6 | 572.7 | 703.9 | 763.6 | 859.0 | 912.7 |
| 107.4 | 67.5° | 125.3 | 196.9 | 292.3 | 346.0 | 453.4 | 578.7 | 644.3 | 727.8 | 775.5 |
| 71.6 | 70° | 83.5 | 161.1 | 232.7 | 286.3 | 357.9 | 465.3 | 548.8 | 620.4 | 650.2 |
| 35.8 | 72.5° | 47.7 | 101.4 | 161.1 | 226.7 | 286.3 | 387.8 | 465.3 | 525.0 | 346.0 |
| 23.9 | 75° | 29.8 | 77.6 | 137.2 | 190.9 | 238.6 | 310.2 | 375.8 | 369.9 | 155.1 |
| 17.9 | 77.5° | 23.9 | 59.7 | 119.3 | 161.1 | 196.9 | 214.8 | 268.5 | 304.2 | 119.3 |
| 11.9 | 80° | 17.9 | 47.7 | 107.4 | 137.2 | 77.6 | 155.1 | 208.8 | 226.7 | 83.5 |
| 11.9 | 82.5° | 11.9 | 29.8 | 89.5 | 95.4 | 53.7 | 113.3 | 167.0 | 149.1 | 59.7 |
| 6.0 | 85° | 6.0 | 17.9 | 29.8 | 53.7 | 47.7 | 53.7 | 41.8 | 59.7 | 41.8 |
| 6.0 | 87.5° | 6.0 | 11.9 | 23.9 | 23.9 | 23.9 | 17.9 | 23.9 | 23.9 | 23.9 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



| 180° |
|---------|
| 24900.4 |
| 24828.8 |
| 24787.0 |
| 24697.6 |
| 24327.7 |
| 23802.7 |
| 22931.7 |
| 22072.7 |
| 20736.4 |
| 19322.6 |
| 18165.2 |
| 16846.8 |
| 15623.9 |
| 14263.7 |
| 12909.5 |
| 11579.2 |
| 10374.2 |
| 9258.6 |
| 8172.9 |
| 7081.2 |
| 6049.1 |
| 5094.6 |
| 4241.5 |
| 3203.5 |
| 1789.7 |
| 1157.3 |
| 912.7 |
| 769.6 |
| 644.3 |
| 280.4 |
| 155.1 |
| 119.3 |
| 89.5 |
| 59.7 |
| 41.8 |
| 23.9 |
| 0.0 |

(END OF REPORT)