

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: P636962

Luminaire Tested: **IFLD-L-SA7C-940-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636962
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-940-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23609.8 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

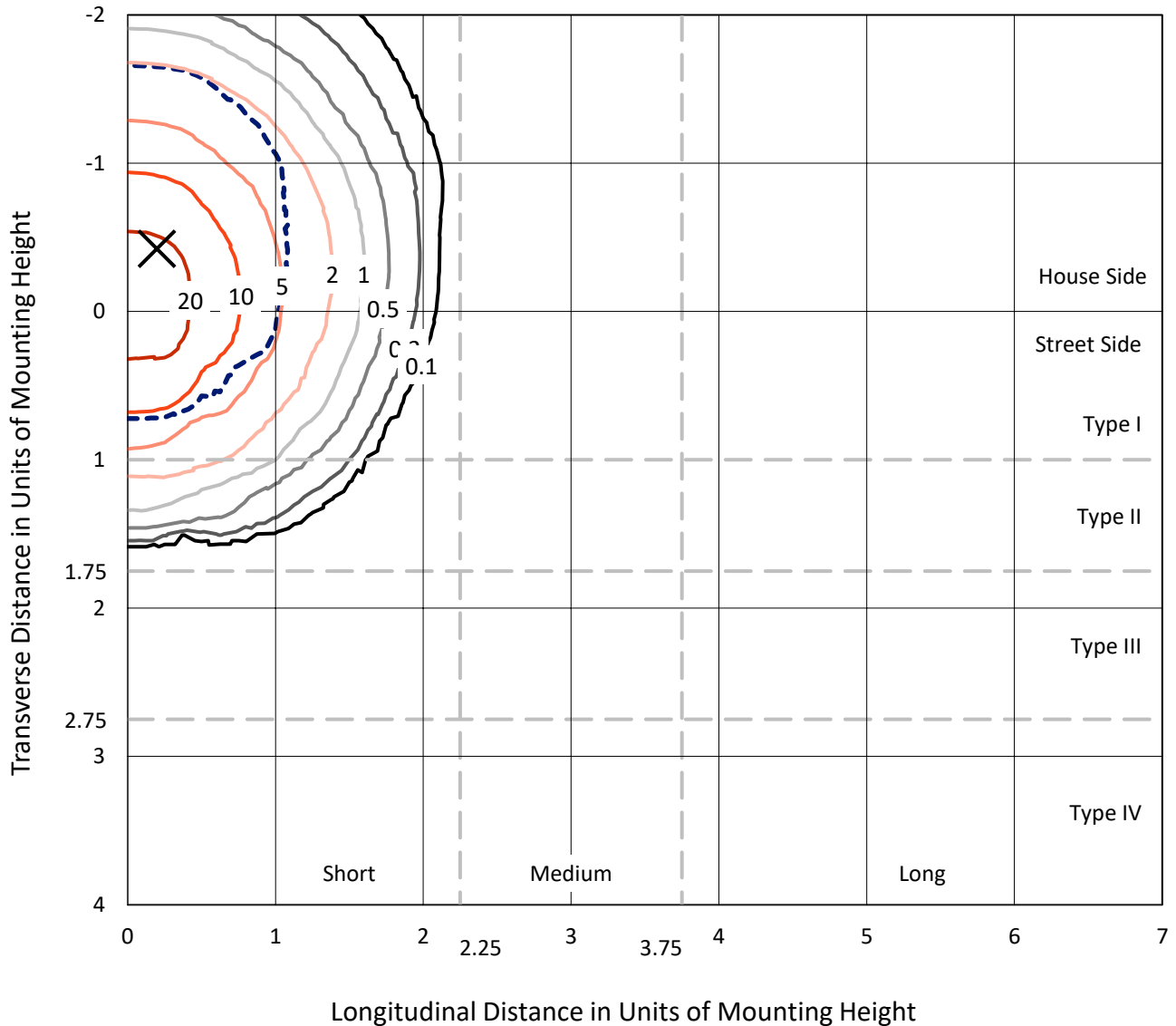
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

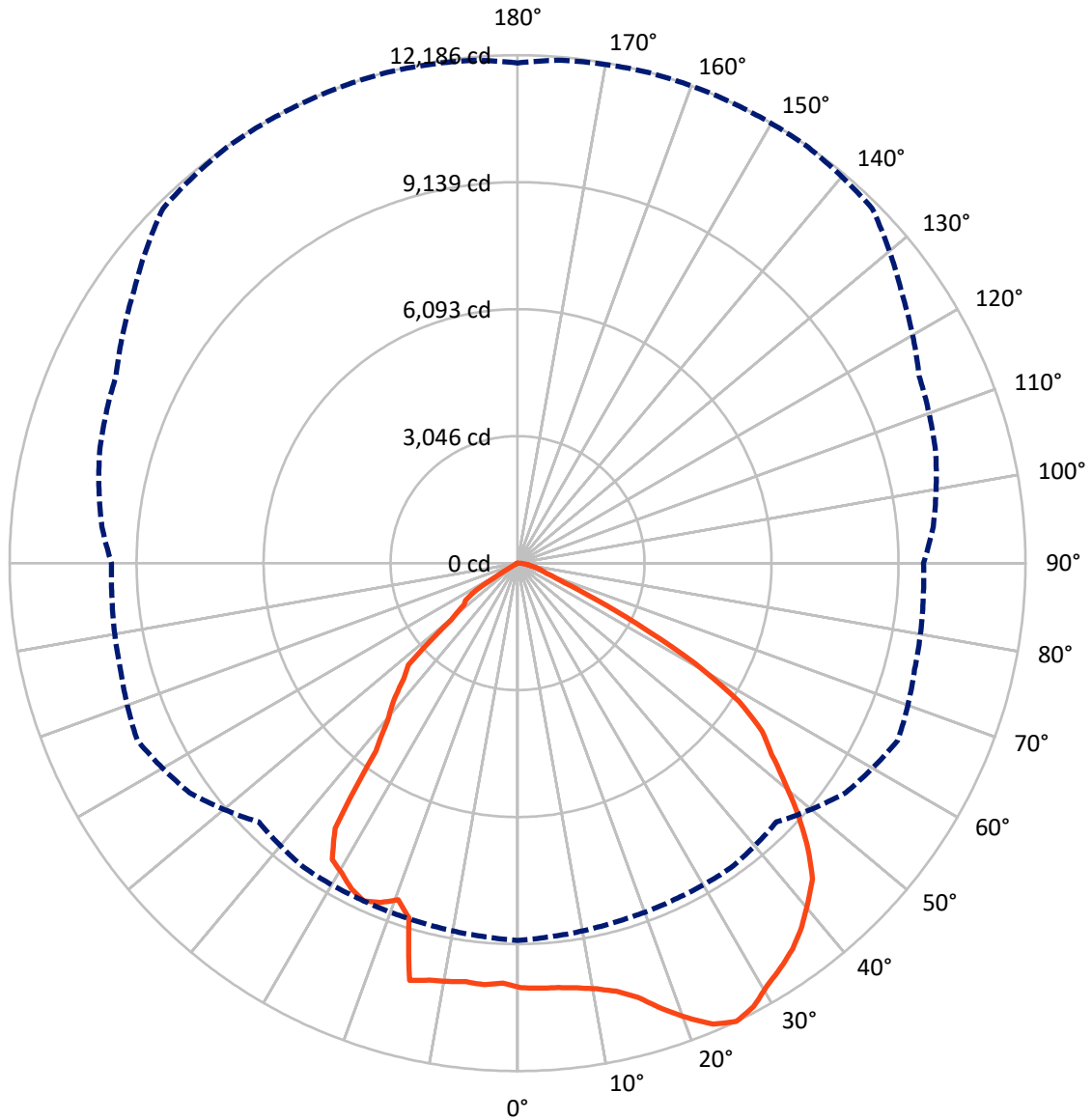
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 25.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14616.9 | 0.0 | 14616.9 |
| | % Fixture | 61.9 | 0.0 | 61.9 |
| Street Side | Lumens | 8992.9 | 0.0 | 8992.9 |
| | % Fixture | 38.1 | 0.0 | 38.1 |
| Total | Lumens | 23609.8 | 0.0 | 23609.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 977.3 | 4.1 |
| 10°-20° | 2984.2 | 12.6 |
| 20°-30° | 4717.9 | 20.0 |
| 30°-40° | 5329.3 | 22.6 |
| 40°-50° | 4991.0 | 21.1 |
| 50°-60° | 3440.9 | 14.6 |
| 60°-70° | 924.5 | 3.9 |
| 70°-80° | 192.6 | 0.8 |
| 80°-90° | 52.1 | 0.2 |
| 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° | 23609.8 | 100.0 |
| 0°-180° | 23609.8 | 100.0 |



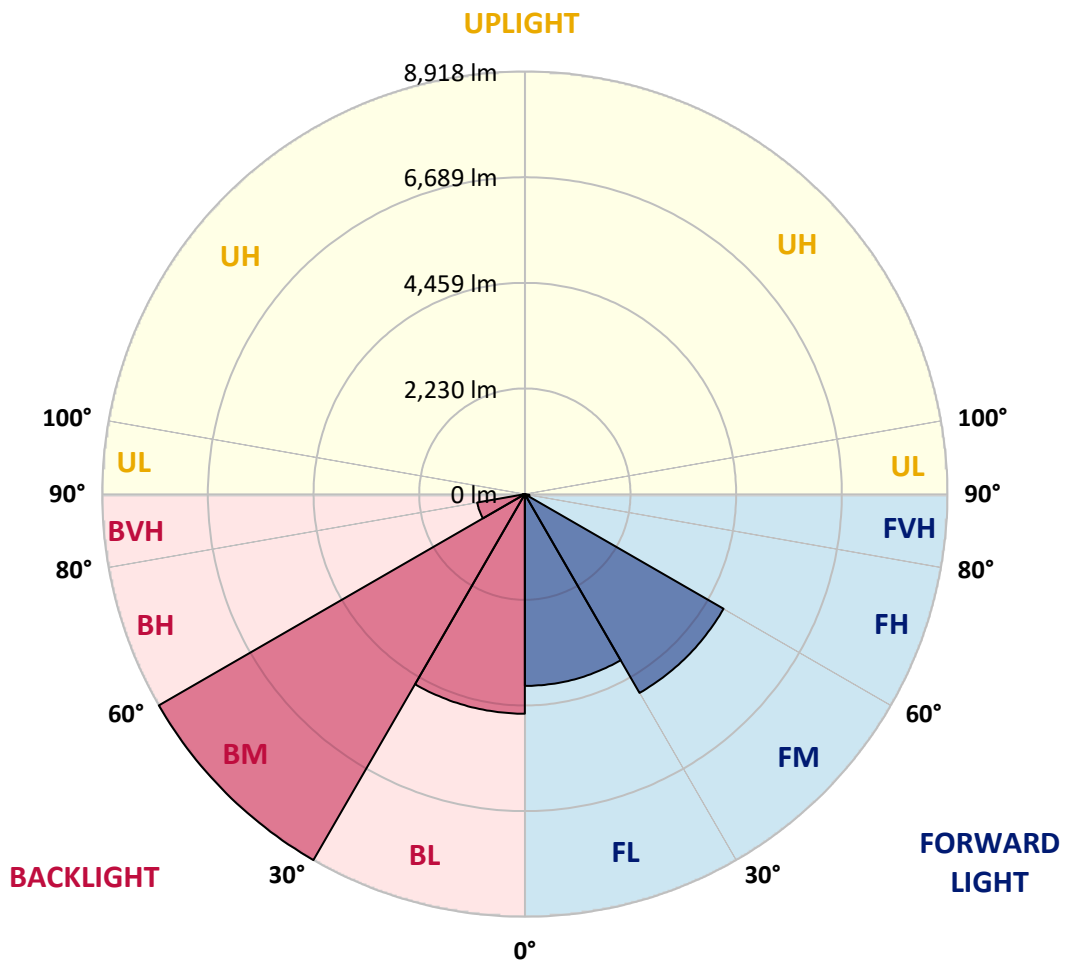
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4046.0 | 17.1 | | | |
| FM (30°-60°) | 4842.9 | 20.5 | | | |
| FH (60°-80°) | 97.0 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 7.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 4633.5 | 19.6 | B4/5000 | | |
| BM (30°-60°) | 8918.3 | 37.8 | B5 | | |
| BH (60°-80°) | 1020.1 | 4.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 45.1 | 0.2 | | | G1/100 |
| 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10187.2 | 10187.2 | 10187.2 | 10187.2 | 10187.2 | 10187.2 | 10187.2 | 10187.2 | 10187.2 | 10187.2 |
| 2.5° | 10232.3 | 10166.4 | 10104.0 | 10083.1 | 10169.9 | 10263.6 | 10204.6 | 10208.0 | 10187.2 | 10225.4 |
| 5° | 10308.7 | 10218.5 | 10176.8 | 10145.6 | 10159.5 | 10256.6 | 10173.3 | 10204.6 | 10169.9 | 10215.0 |
| 7.5° | 10280.9 | 10218.5 | 10176.8 | 10117.8 | 10162.9 | 10277.4 | 10197.6 | 10201.1 | 10183.8 | 10225.4 |
| 10° | 10263.6 | 10218.5 | 10166.4 | 10173.3 | 10225.4 | 10322.5 | 10260.1 | 10294.8 | 10270.5 | 10294.8 |
| 12.5° | 10305.2 | 10256.6 | 10228.9 | 10228.9 | 10274.0 | 10385.0 | 10353.8 | 10385.0 | 10374.6 | 10395.4 |
| 15° | 9913.1 | 9958.2 | 10221.9 | 10339.9 | 10430.1 | 10541.1 | 10527.3 | 10558.5 | 10565.4 | 10596.7 |
| 17.5° | 8362.1 | 8317.0 | 8296.2 | 8903.4 | 10516.9 | 10860.4 | 10850.0 | 10846.5 | 10811.8 | 10787.5 |
| 20° | 8566.8 | 8549.5 | 8525.2 | 8570.3 | 8750.7 | 11026.9 | 11096.3 | 10669.5 | 10544.6 | 10534.2 |
| 22.5° | 8893.0 | 8865.2 | 8775.0 | 8778.5 | 8834.0 | 9587.0 | 10752.8 | 10364.2 | 10322.5 | 10298.3 |
| 25° | 9052.6 | 8997.1 | 8924.2 | 8903.4 | 8920.8 | 8782.0 | 9604.3 | 10065.8 | 9861.1 | 9767.4 |
| 27.5° | 8771.6 | 8775.0 | 8716.0 | 8771.6 | 8705.6 | 8081.1 | 7730.6 | 9482.9 | 9475.9 | 9434.3 |
| 30° | 8559.9 | 8549.5 | 8480.1 | 8549.5 | 8095.0 | 7397.5 | 7248.3 | 8844.4 | 8771.6 | 8716.0 |
| 32.5° | 7911.1 | 7918.0 | 8119.2 | 8389.9 | 7643.9 | 7092.2 | 6641.1 | 7900.7 | 8591.1 | 8559.9 |
| 35° | 5659.2 | 5673.1 | 6387.8 | 7723.7 | 6960.3 | 6485.0 | 6450.3 | 6828.5 | 8306.6 | 8320.5 |
| 37.5° | 5447.5 | 5447.5 | 5430.2 | 5648.8 | 6422.5 | 6238.6 | 6308.0 | 6269.9 | 7609.2 | 7643.9 |
| 40° | 5294.9 | 5263.6 | 5239.3 | 4895.8 | 4465.6 | 6065.1 | 6113.7 | 5940.2 | 7192.8 | 7199.8 |
| 42.5° | 5111.0 | 5076.3 | 5083.2 | 4448.2 | 3997.2 | 5634.9 | 5499.6 | 5267.1 | 6498.9 | 6505.8 |
| 45° | 4774.4 | 4833.4 | 4875.0 | 3893.1 | 3858.4 | 4024.9 | 5072.8 | 4927.1 | 6030.4 | 6158.8 |
| 47.5° | 2428.8 | 2480.9 | 3806.3 | 3580.8 | 3660.6 | 3577.3 | 4285.2 | 4288.6 | 5017.3 | 5444.1 |
| 50° | 2203.3 | 2189.4 | 2192.9 | 2088.8 | 3379.6 | 2893.8 | 3098.5 | 3931.2 | 4018.0 | 4628.7 |
| 52.5° | 2054.1 | 2050.6 | 1839.0 | 1634.3 | 2123.5 | 2546.8 | 2248.4 | 2845.2 | 2987.5 | 3920.8 |
| 55° | 1519.8 | 1630.8 | 1450.4 | 1537.1 | 1328.9 | 2040.2 | 2029.8 | 2567.6 | 2616.2 | 3143.6 |
| 57.5° | 13.9 | 17.3 | 41.6 | 1169.3 | 919.5 | 1020.1 | 1401.8 | 1752.2 | 1839.0 | 2449.7 |
| 60° | 3.5 | 6.9 | 17.3 | 34.7 | 596.8 | 628.0 | 936.8 | 1013.2 | 1141.6 | 1460.8 |
| 62.5° | 0.0 | 0.0 | 6.9 | 17.3 | 31.2 | 256.8 | 298.4 | 326.2 | 503.1 | 746.0 |
| 65° | 0.0 | 0.0 | 3.5 | 10.4 | 17.3 | 41.6 | 72.9 | 152.7 | 218.6 | 270.6 |
| 67.5° | 0.0 | 0.0 | 3.5 | 6.9 | 13.9 | 20.8 | 41.6 | 59.0 | 93.7 | 159.6 |
| 70° | 0.0 | 0.0 | 3.5 | 6.9 | 10.4 | 17.3 | 27.8 | 41.6 | 55.5 | 79.8 |
| 72.5° | 0.0 | 0.0 | 3.5 | 6.9 | 6.9 | 20.8 | 20.8 | 31.2 | 41.6 | 52.0 |
| 75° | 0.0 | 0.0 | 3.5 | 3.5 | 6.9 | 13.9 | 20.8 | 24.3 | 27.8 | 41.6 |
| 77.5° | 0.0 | 0.0 | 3.5 | 6.9 | 10.4 | 13.9 | 17.3 | 27.8 | 24.3 | 24.3 |
| 80° | 0.0 | 0.0 | 3.5 | 10.4 | 10.4 | 17.3 | 20.8 | 27.8 | 17.3 | 17.3 |
| 82.5° | 0.0 | 0.0 | 3.5 | 13.9 | 10.4 | 34.7 | 34.7 | 38.2 | 13.9 | 13.9 |
| 85° | 0.0 | 0.0 | 10.4 | 6.9 | 20.8 | 34.7 | 31.2 | 20.8 | 17.3 | 10.4 |
| 87.5° | 0.0 | 0.0 | 3.5 | 3.5 | 6.9 | 10.4 | 24.3 | 20.8 | 6.9 | 6.9 |
| 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-SA7C-940-U-LAM-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 10187.2 | 0° | 10187.2 | 10187.2 | 10187.2 | 10187.2 | 10187.2 | 10187.2 | 10187.2 | 10187.2 | 10187.2 |
| 10124.8 | 2.5° | 10263.6 | 10218.5 | 10312.1 | 10301.7 | 10256.6 | 10235.8 | 10211.5 | 10190.7 | 10038.0 |
| 10131.7 | 5° | 10267.0 | 10197.6 | 10312.1 | 10291.3 | 10284.4 | 10249.7 | 10228.9 | 10260.1 | 10121.3 |
| 10159.5 | 7.5° | 10267.0 | 10197.6 | 10322.5 | 10329.5 | 10319.1 | 10291.3 | 10287.9 | 10308.7 | 10194.2 |
| 10208.0 | 10° | 10336.4 | 10308.7 | 10412.8 | 10423.2 | 10409.3 | 10402.4 | 10385.0 | 10371.1 | 10249.7 |
| 10374.6 | 12.5° | 10482.2 | 10426.6 | 10544.6 | 10575.8 | 10565.4 | 10582.8 | 10541.1 | 10562.0 | 10437.1 |
| 10544.6 | 15° | 10659.1 | 10662.6 | 10752.8 | 10822.2 | 10815.3 | 10870.8 | 10808.3 | 10863.8 | 10773.6 |
| 10738.9 | 17.5° | 10929.8 | 10967.9 | 11096.3 | 11200.4 | 11238.6 | 11280.2 | 11238.6 | 11255.9 | 11127.5 |
| 10523.8 | 20° | 10645.2 | 10787.5 | 11405.1 | 11596.0 | 11675.8 | 11713.9 | 11644.5 | 11665.3 | 11537.0 |
| 10260.1 | 22.5° | 10388.5 | 10572.4 | 11120.6 | 11717.4 | 11963.7 | 12040.1 | 12015.8 | 12012.3 | 11963.7 |
| 9739.6 | 25° | 10010.3 | 10381.5 | 10627.9 | 11259.4 | 12033.1 | 12171.9 | 12185.8 | 12182.3 | 12109.5 |
| 9420.4 | 27.5° | 9545.3 | 9628.6 | 10267.0 | 10652.2 | 11547.4 | 12074.8 | 12054.0 | 11953.3 | 11856.2 |
| 8757.7 | 30° | 8952.0 | 9330.2 | 9618.2 | 10232.3 | 10919.3 | 11776.4 | 11776.4 | 11700.0 | 11599.4 |
| 8521.7 | 32.5° | 8650.1 | 9139.4 | 9406.5 | 9628.6 | 10215.0 | 11443.3 | 11582.1 | 11502.3 | 11422.5 |
| 8337.8 | 35° | 8490.5 | 8563.4 | 9187.9 | 9389.2 | 9885.4 | 10801.4 | 11363.5 | 11283.7 | 11224.7 |
| 7848.6 | 37.5° | 8140.1 | 8310.1 | 8601.5 | 9139.4 | 9292.0 | 10277.4 | 11072.0 | 11030.4 | 10961.0 |
| 7213.6 | 40° | 7359.4 | 7813.9 | 8261.5 | 8771.6 | 8931.2 | 9604.3 | 10718.1 | 10735.5 | 10641.8 |
| 6537.0 | 42.5° | 6897.9 | 7206.7 | 7907.6 | 8251.1 | 8681.3 | 9170.6 | 10374.6 | 10402.4 | 10336.4 |
| 6193.5 | 45° | 6356.6 | 6700.1 | 7192.8 | 7817.4 | 8403.8 | 8573.8 | 9767.4 | 10058.8 | 10003.3 |
| 5510.0 | 47.5° | 5860.4 | 6138.0 | 6741.8 | 7373.2 | 8022.1 | 7997.8 | 9070.0 | 9618.2 | 9541.9 |
| 4986.1 | 50° | 5156.1 | 5641.8 | 5926.4 | 6505.8 | 7473.9 | 7539.8 | 8327.4 | 9101.2 | 9038.7 |
| 4236.6 | 52.5° | 4347.6 | 4958.3 | 5503.0 | 6033.9 | 6918.7 | 7074.8 | 7637.0 | 8573.8 | 8532.1 |
| 3237.3 | 55° | 3799.4 | 4243.5 | 4857.7 | 5284.5 | 6245.6 | 6661.9 | 7120.0 | 8070.7 | 8049.9 |
| 2661.3 | 57.5° | 2702.9 | 3560.0 | 4066.6 | 4663.4 | 5169.9 | 5922.9 | 6262.9 | 7047.1 | 6852.8 |
| 1474.6 | 60° | 1832.0 | 2234.5 | 2852.1 | 3494.1 | 3834.1 | 4587.0 | 4902.8 | 5530.8 | 5478.8 |
| 881.3 | 62.5° | 968.1 | 1339.3 | 1780.0 | 2102.7 | 2349.0 | 3081.2 | 3213.0 | 3889.6 | 3872.3 |
| 353.9 | 65° | 426.8 | 565.6 | 964.6 | 1131.1 | 1384.4 | 1724.5 | 1839.0 | 2081.9 | 2022.9 |
| 173.5 | 67.5° | 222.1 | 336.6 | 544.8 | 669.7 | 843.2 | 971.5 | 1065.2 | 1141.6 | 1190.1 |
| 114.5 | 70° | 135.3 | 246.4 | 336.6 | 464.9 | 579.5 | 683.5 | 756.4 | 860.5 | 923.0 |
| 59.0 | 72.5° | 100.6 | 156.1 | 232.5 | 357.4 | 419.8 | 541.3 | 614.1 | 690.5 | 746.0 |
| 48.6 | 75° | 55.5 | 104.1 | 187.4 | 281.1 | 336.6 | 440.7 | 506.6 | 558.6 | 576.0 |
| 27.8 | 77.5° | 34.7 | 79.8 | 156.1 | 218.6 | 263.7 | 357.4 | 340.0 | 388.6 | 430.3 |
| 20.8 | 80° | 24.3 | 59.0 | 121.4 | 180.4 | 183.9 | 229.0 | 270.6 | 312.3 | 340.0 |
| 13.9 | 82.5° | 17.3 | 48.6 | 90.2 | 138.8 | 121.4 | 177.0 | 211.7 | 242.9 | 177.0 |
| 10.4 | 85° | 13.9 | 34.7 | 45.1 | 83.3 | 69.4 | 124.9 | 107.6 | 104.1 | 69.4 |
| 6.9 | 87.5° | 10.4 | 17.3 | 31.2 | 38.2 | 27.8 | 27.8 | 34.7 | 41.6 | 34.7 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
10187.2
9933.9
10003.3
10062.3
10149.1
10326.0
10624.4
11016.5
11446.8
11807.6
11998.4
11779.8
11561.3
11356.5
11141.4
10891.6
10620.9
10329.5
10010.3
9597.4
9049.1
8559.9
8074.1
6832.0
5482.2
3875.7
1998.6
1190.1
926.4
756.4
565.6
437.2
343.5
128.4
69.4
34.7
0.0

(END OF REPORT)