

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: P638051

Luminaire Tested: **IFLD-S-SA3E-722-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638051  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-722-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (48) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15282.6 lumens  
Efficiency: N/A  
Efficacy: 65.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

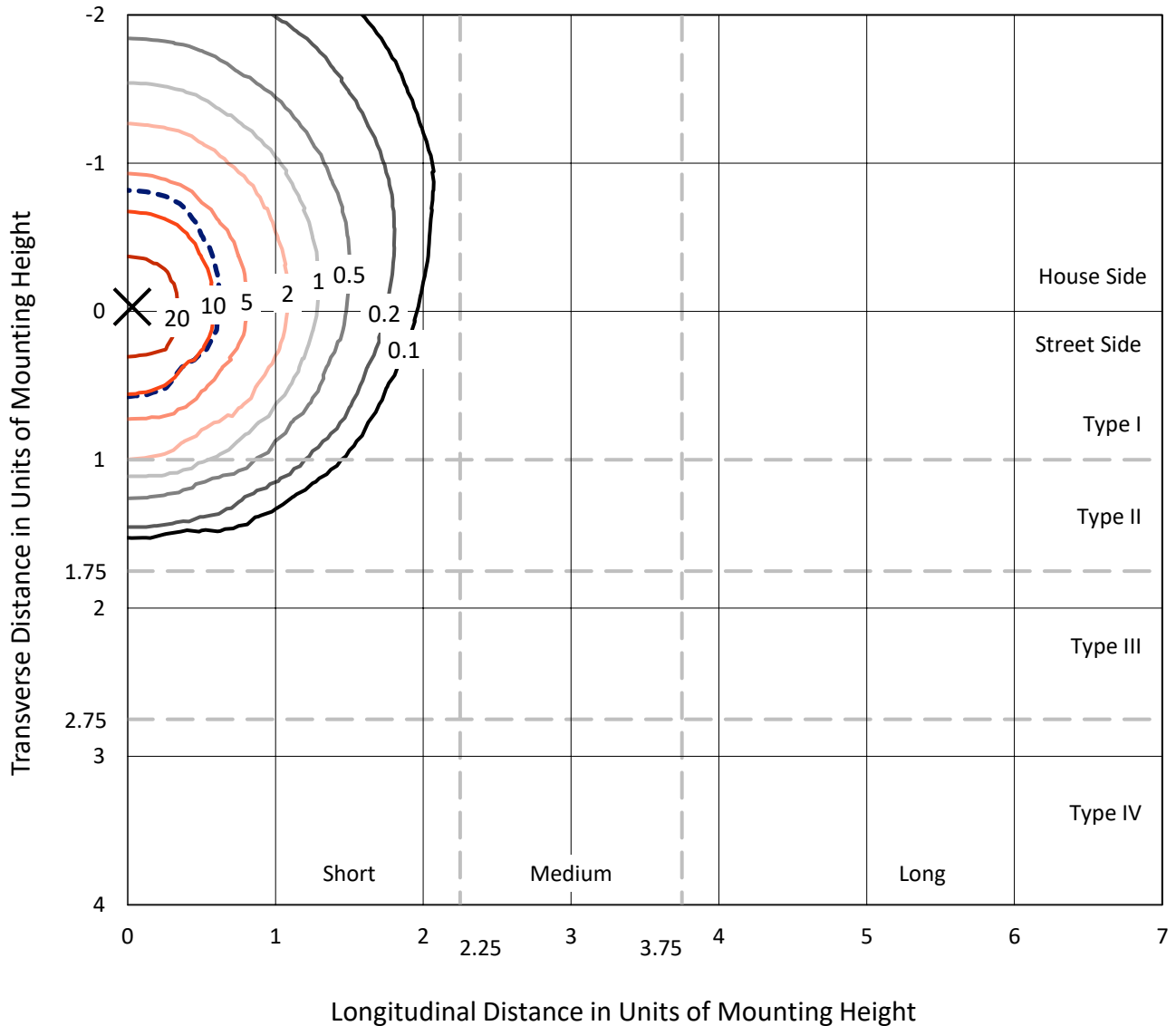
Input Watts (W): 232.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

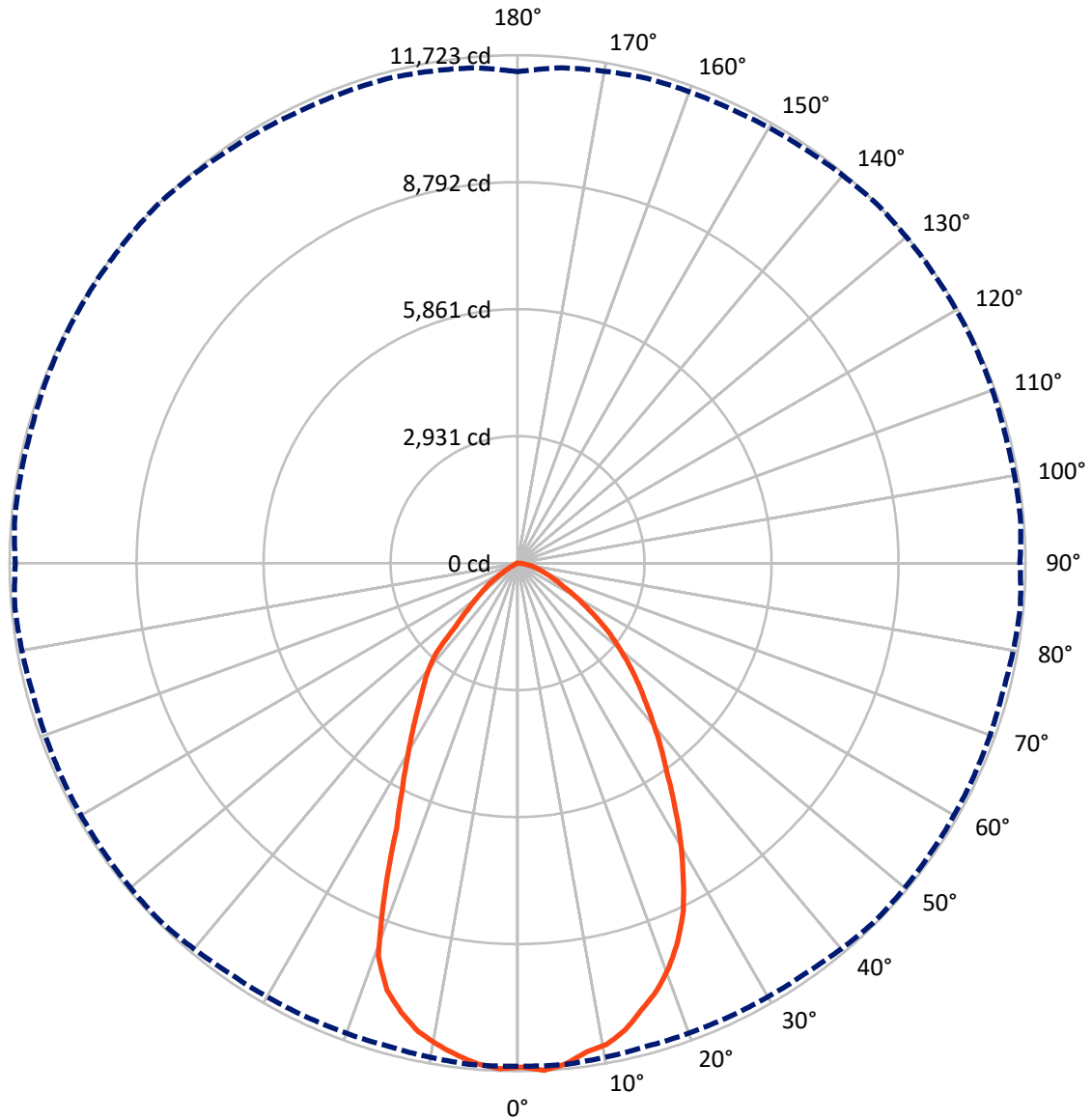
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9051.1   | 0.0    | 9051.1  |
|                    | % Fixture | 59.2     | 0.0    | 59.2    |
| <b>Street Side</b> | Lumens    | 6231.5   | 0.0    | 6231.5  |
|                    | % Fixture | 40.8     | 0.0    | 40.8    |
| <b>Total</b>       | Lumens    | 15282.6  | 0.0    | 15282.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1090.7  | 7.1       |
| 10°-20°   | 2924.8  | 19.1      |
| 20°-30°   | 3567.0  | 23.3      |
| 30°-40°   | 3256.6  | 21.3      |
| 40°-50°   | 2353.5  | 15.4      |
| 50°-60°   | 1285.0  | 8.4       |
| 60°-70°   | 531.3   | 3.5       |
| 70°-80°   | 215.2   | 1.4       |
| 80°-90°   | 58.5    | 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°    | 15282.6 | 100.0     |
| 0°-180°   | 15282.6 | 100.0     |

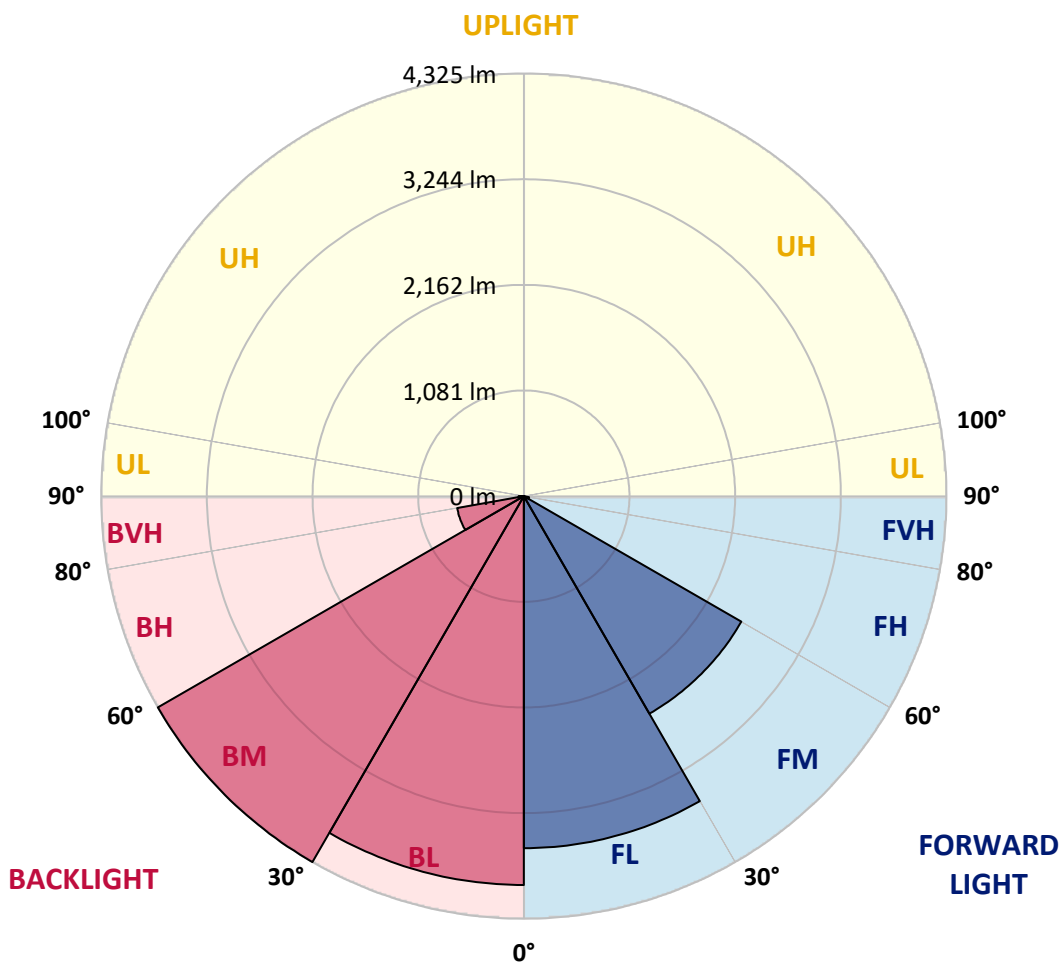


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 3602.7 | 23.6      |                         |      |         |
| FM (30°-60°)   | 2570.2 | 16.8      |                         |      |         |
| FH (60°-80°)   | 53.9   | 0.4       |                         |      | G0/660  |
| FVH (80°-90°)  | 4.7    | 0.0       |                         |      | G0/10   |
| BL (0°-30°)    | 3979.8 | 26.0      | B4/5000                 |      |         |
| BM (30°-60°)   | 4324.8 | 28.3      | B3/5000                 |      |         |
| BH (60°-80°)   | 692.6  | 4.5       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 53.8   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11630.0 | 11630.0 | 11630.0 | 11630.0 | 11630.0 | 11630.0 | 11630.0 | 11630.0 | 11630.0 | 11630.0 |
| 2.5°  | 11608.5 | 11623.5 | 11541.8 | 11550.4 | 11565.4 | 11675.2 | 11647.2 | 11621.4 | 11584.8 | 11647.2 |
| 5°    | 11593.4 | 11602.0 | 11515.9 | 11485.8 | 11498.7 | 11597.7 | 11507.3 | 11507.3 | 11498.7 | 11488.0 |
| 7.5°  | 11477.2 | 11481.5 | 11414.8 | 11361.0 | 11395.4 | 11440.6 | 11373.9 | 11406.2 | 11358.8 | 11395.4 |
| 10°   | 11302.9 | 11274.9 | 11195.3 | 11180.2 | 11219.0 | 11262.0 | 11216.8 | 11246.9 | 11203.9 | 11231.9 |
| 12.5° | 11046.8 | 11003.7 | 10939.2 | 10919.8 | 10986.5 | 11044.6 | 11008.0 | 10990.8 | 10934.9 | 11003.7 |
| 15°   | 10059.0 | 10026.7 | 10173.0 | 10429.1 | 10659.4 | 10708.9 | 10670.2 | 10687.4 | 10571.2 | 10590.5 |
| 17.5° | 8279.2  | 8218.9  | 8376.0  | 8982.9  | 9848.1  | 10304.3 | 10269.9 | 10158.0 | 9985.8  | 10024.5 |
| 20°   | 7523.8  | 7506.6  | 7489.3  | 7633.5  | 8238.3  | 9622.1  | 9669.4  | 9385.4  | 9140.0  | 9086.2  |
| 22.5° | 7097.7  | 7091.2  | 7074.0  | 7106.3  | 7265.5  | 8154.3  | 8696.7  | 8434.1  | 8270.6  | 8255.5  |
| 25°   | 6708.1  | 6697.4  | 6645.7  | 6686.6  | 6686.6  | 6738.3  | 7433.4  | 7592.6  | 7448.5  | 7431.2  |
| 27.5° | 6312.1  | 6292.8  | 6284.2  | 6303.5  | 6204.5  | 5855.9  | 6032.4  | 6809.3  | 6734.0  | 6738.3  |
| 30°   | 5883.9  | 5877.4  | 5853.7  | 5894.6  | 5589.0  | 5156.5  | 5044.5  | 6099.1  | 6114.1  | 6109.8  |
| 32.5° | 5246.8  | 5274.8  | 5382.4  | 5427.6  | 4924.0  | 4566.8  | 4379.5  | 5277.0  | 5584.7  | 5578.3  |
| 35°   | 3811.4  | 3811.4  | 4162.2  | 4814.3  | 4315.0  | 4046.0  | 3944.8  | 4474.2  | 5061.8  | 5083.3  |
| 37.5° | 3133.5  | 3144.2  | 3213.1  | 3510.1  | 3723.2  | 3628.5  | 3598.3  | 3766.2  | 4390.3  | 4424.7  |
| 40°   | 2819.3  | 2819.3  | 2819.3  | 2696.6  | 2690.1  | 3269.1  | 3251.8  | 3198.0  | 3792.0  | 3867.3  |
| 42.5° | 2533.0  | 2539.5  | 2543.8  | 2233.9  | 2061.7  | 2825.7  | 2787.0  | 2705.2  | 3256.1  | 3344.4  |
| 45°   | 2238.2  | 2249.0  | 2261.9  | 1868.0  | 1792.7  | 2033.7  | 2358.7  | 2268.3  | 2726.7  | 2840.8  |
| 47.5° | 1366.6  | 1383.8  | 1676.5  | 1584.0  | 1592.6  | 1568.9  | 1924.0  | 1908.9  | 2236.0  | 2397.5  |
| 50°   | 923.3   | 929.7   | 957.7   | 1005.0  | 1366.6  | 1233.2  | 1362.3  | 1579.6  | 1698.0  | 1943.4  |
| 52.5° | 774.8   | 785.5   | 716.7   | 652.1   | 897.4   | 964.1   | 951.2   | 1172.9  | 1220.2  | 1523.7  |
| 55°   | 544.5   | 578.9   | 546.6   | 540.2   | 510.1   | 748.9   | 721.0   | 901.7   | 931.9   | 1157.8  |
| 57.5° | 56.0    | 64.6    | 111.9   | 402.4   | 333.6   | 424.0   | 514.4   | 660.7   | 690.8   | 854.4   |
| 60°   | 4.3     | 4.3     | 10.8    | 56.0    | 243.2   | 253.9   | 355.1   | 406.7   | 464.9   | 596.1   |
| 62.5° | 0.0     | 2.2     | 4.3     | 8.6     | 38.7    | 135.6   | 178.6   | 213.1   | 279.8   | 385.2   |
| 65°   | 0.0     | 0.0     | 2.2     | 6.5     | 8.6     | 51.7    | 68.9    | 111.9   | 152.8   | 238.9   |
| 67.5° | 0.0     | 0.0     | 2.2     | 4.3     | 6.5     | 12.9    | 23.7    | 40.9    | 81.8    | 135.6   |
| 70°   | 0.0     | 0.0     | 2.2     | 4.3     | 6.5     | 10.8    | 17.2    | 25.8    | 36.6    | 73.2    |
| 72.5° | 0.0     | 0.0     | 2.2     | 2.2     | 4.3     | 10.8    | 12.9    | 17.2    | 25.8    | 36.6    |
| 75°   | 0.0     | 0.0     | 2.2     | 2.2     | 6.5     | 12.9    | 10.8    | 12.9    | 17.2    | 23.7    |
| 77.5° | 0.0     | 0.0     | 2.2     | 4.3     | 6.5     | 12.9    | 10.8    | 12.9    | 12.9    | 15.1    |
| 80°   | 0.0     | 0.0     | 2.2     | 4.3     | 8.6     | 15.1    | 12.9    | 12.9    | 10.8    | 10.8    |
| 82.5° | 0.0     | 0.0     | 2.2     | 6.5     | 8.6     | 19.4    | 19.4    | 17.2    | 8.6     | 6.5     |
| 85°   | 0.0     | 0.0     | 4.3     | 8.6     | 12.9    | 21.5    | 21.5    | 17.2    | 6.5     | 4.3     |
| 87.5° | 0.0     | 0.0     | 4.3     | 6.5     | 10.8    | 15.1    | 21.5    | 17.2    | 6.5     | 2.2     |
| 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):**

| 90°     |       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 11630.0 | 0°    | 11630.0 | 11630.0 | 11630.0 | 11630.0 | 11630.0 | 11630.0 | 11630.0 | 11630.0 | 11630.0 |
| 11593.4 | 2.5°  | 11651.5 | 11638.6 | 11681.7 | 11698.9 | 11722.5 | 11632.2 | 11576.2 | 11578.4 | 11475.1 |
| 11462.1 | 5°    | 11531.0 | 11533.2 | 11589.1 | 11584.8 | 11608.5 | 11559.0 | 11537.5 | 11500.9 | 11410.5 |
| 11296.4 | 7.5°  | 11378.2 | 11358.8 | 11412.6 | 11453.5 | 11393.3 | 11427.7 | 11378.2 | 11395.4 | 11341.6 |
| 11150.1 | 10°   | 11259.8 | 11214.6 | 11264.1 | 11292.1 | 11294.3 | 11259.8 | 11212.5 | 11167.3 | 11147.9 |
| 10922.0 | 12.5° | 10997.3 | 10939.2 | 11023.1 | 11061.8 | 11055.4 | 10988.7 | 10934.9 | 10945.6 | 10883.2 |
| 10521.7 | 15°   | 10635.7 | 10637.9 | 10698.1 | 10734.7 | 10700.3 | 10685.2 | 10689.5 | 10663.7 | 10609.9 |
| 9968.6  | 17.5° | 10082.6 | 10114.9 | 10274.2 | 10362.4 | 10381.8 | 10351.6 | 10336.6 | 10306.5 | 10252.7 |
| 9086.2  | 20°   | 9161.5  | 9355.2  | 9639.3  | 9912.6  | 9966.4  | 9957.8  | 9904.0  | 9891.1  | 9861.0  |
| 8212.5  | 22.5° | 8352.3  | 8496.5  | 8825.8  | 9251.9  | 9471.4  | 9493.0  | 9428.4  | 9409.0  | 9376.7  |
| 7431.2  | 25°   | 7515.2  | 7670.1  | 7967.1  | 8429.8  | 8883.9  | 8976.5  | 8965.7  | 8907.6  | 8873.2  |
| 6738.3  | 27.5° | 6809.3  | 6964.2  | 7233.2  | 7650.8  | 8137.1  | 8434.1  | 8462.1  | 8369.6  | 8367.4  |
| 6120.6  | 30°   | 6172.3  | 6385.3  | 6589.8  | 6929.8  | 7401.1  | 7846.6  | 7893.9  | 7829.4  | 7835.8  |
| 5554.6  | 32.5° | 5673.0  | 5849.4  | 6023.8  | 6251.9  | 6643.6  | 7162.2  | 7347.3  | 7287.0  | 7263.4  |
| 5083.3  | 35°   | 5162.9  | 5283.4  | 5462.1  | 5670.8  | 5937.7  | 6452.0  | 6772.7  | 6727.5  | 6703.8  |
| 4446.3  | 37.5° | 4581.8  | 4788.4  | 4917.6  | 5152.2  | 5360.9  | 5769.8  | 6221.8  | 6215.3  | 6165.8  |
| 3903.9  | 40°   | 3985.7  | 4203.1  | 4398.9  | 4635.6  | 4797.1  | 5122.0  | 5623.5  | 5621.3  | 5627.8  |
| 3342.2  | 42.5° | 3445.5  | 3645.7  | 3882.4  | 4140.7  | 4295.6  | 4532.3  | 5070.4  | 5100.5  | 5137.1  |
| 2879.5  | 45°   | 2957.0  | 3137.8  | 3357.3  | 3671.5  | 3858.7  | 3994.3  | 4472.1  | 4609.8  | 4607.7  |
| 2466.3  | 47.5° | 2518.0  | 2688.0  | 2873.1  | 3178.7  | 3417.6  | 3540.2  | 3936.2  | 4132.1  | 4119.1  |
| 2023.0  | 50°   | 2113.4  | 2264.0  | 2457.7  | 2679.4  | 3000.0  | 3107.6  | 3402.5  | 3660.7  | 3641.4  |
| 1611.9  | 52.5° | 1700.2  | 1908.9  | 2072.5  | 2274.8  | 2612.7  | 2718.1  | 2946.2  | 3198.0  | 3183.0  |
| 1209.5  | 55°   | 1325.7  | 1528.0  | 1726.0  | 1900.3  | 2184.4  | 2341.5  | 2505.1  | 2763.3  | 2759.0  |
| 946.9   | 57.5° | 1002.9  | 1224.6  | 1411.8  | 1577.5  | 1803.5  | 1997.2  | 2128.4  | 2363.0  | 2393.1  |
| 647.8   | 60°   | 742.5   | 912.5   | 1114.8  | 1299.9  | 1478.5  | 1678.6  | 1766.9  | 1997.2  | 2010.1  |
| 443.3   | 62.5° | 505.7   | 693.0   | 891.0   | 1058.8  | 1192.3  | 1398.9  | 1478.5  | 1667.9  | 1691.6  |
| 284.1   | 65°   | 350.8   | 471.3   | 697.3   | 817.8   | 981.4   | 1157.8  | 1237.5  | 1388.1  | 1435.5  |
| 163.6   | 67.5° | 232.4   | 335.7   | 544.5   | 654.2   | 815.6   | 936.2   | 1037.3  | 1160.0  | 1211.6  |
| 103.3   | 70°   | 127.0   | 247.5   | 389.5   | 516.5   | 656.4   | 772.6   | 871.6   | 970.6   | 1015.8  |
| 47.3    | 72.5° | 86.1    | 165.7   | 271.2   | 408.9   | 529.4   | 643.5   | 731.7   | 804.9   | 807.0   |
| 28.0    | 75°   | 43.0    | 111.9   | 206.6   | 316.4   | 413.2   | 525.1   | 604.7   | 647.8   | 596.1   |
| 17.2    | 77.5° | 25.8    | 81.8    | 167.9   | 253.9   | 335.7   | 424.0   | 469.2   | 492.8   | 408.9   |
| 12.9    | 80°   | 15.1    | 58.1    | 131.3   | 202.3   | 232.4   | 312.1   | 355.1   | 361.6   | 273.3   |
| 8.6     | 82.5° | 10.8    | 43.0    | 103.3   | 148.5   | 142.0   | 219.5   | 266.9   | 258.3   | 174.3   |
| 6.5     | 85°   | 6.5     | 30.1    | 64.6    | 92.5    | 86.1    | 144.2   | 155.0   | 159.3   | 101.1   |
| 4.3     | 87.5° | 4.3     | 17.2    | 34.4    | 49.5    | 40.9    | 62.4    | 62.4    | 75.3    | 49.5    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |





| 180°    |
|---------|
| 11630.0 |
| 11341.6 |
| 11389.0 |
| 11251.2 |
| 11061.8 |
| 10829.4 |
| 10556.1 |
| 10229.0 |
| 9792.1  |
| 9368.1  |
| 8836.6  |
| 8363.1  |
| 7803.6  |
| 7265.5  |
| 6671.5  |
| 6206.7  |
| 5627.8  |
| 5117.7  |
| 4612.0  |
| 4123.4  |
| 3658.6  |
| 3215.3  |
| 2769.8  |
| 2380.2  |
| 2029.4  |
| 1695.9  |
| 1424.7  |
| 1205.2  |
| 998.6   |
| 787.7   |
| 557.4   |
| 393.8   |
| 256.1   |
| 161.4   |
| 92.5    |
| 43.0    |
| 0.0     |

(END OF REPORT)