

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: P637491

Luminaire Tested: **IFLD-S-SA2A-830-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637491  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-830-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (32) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7075.4 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

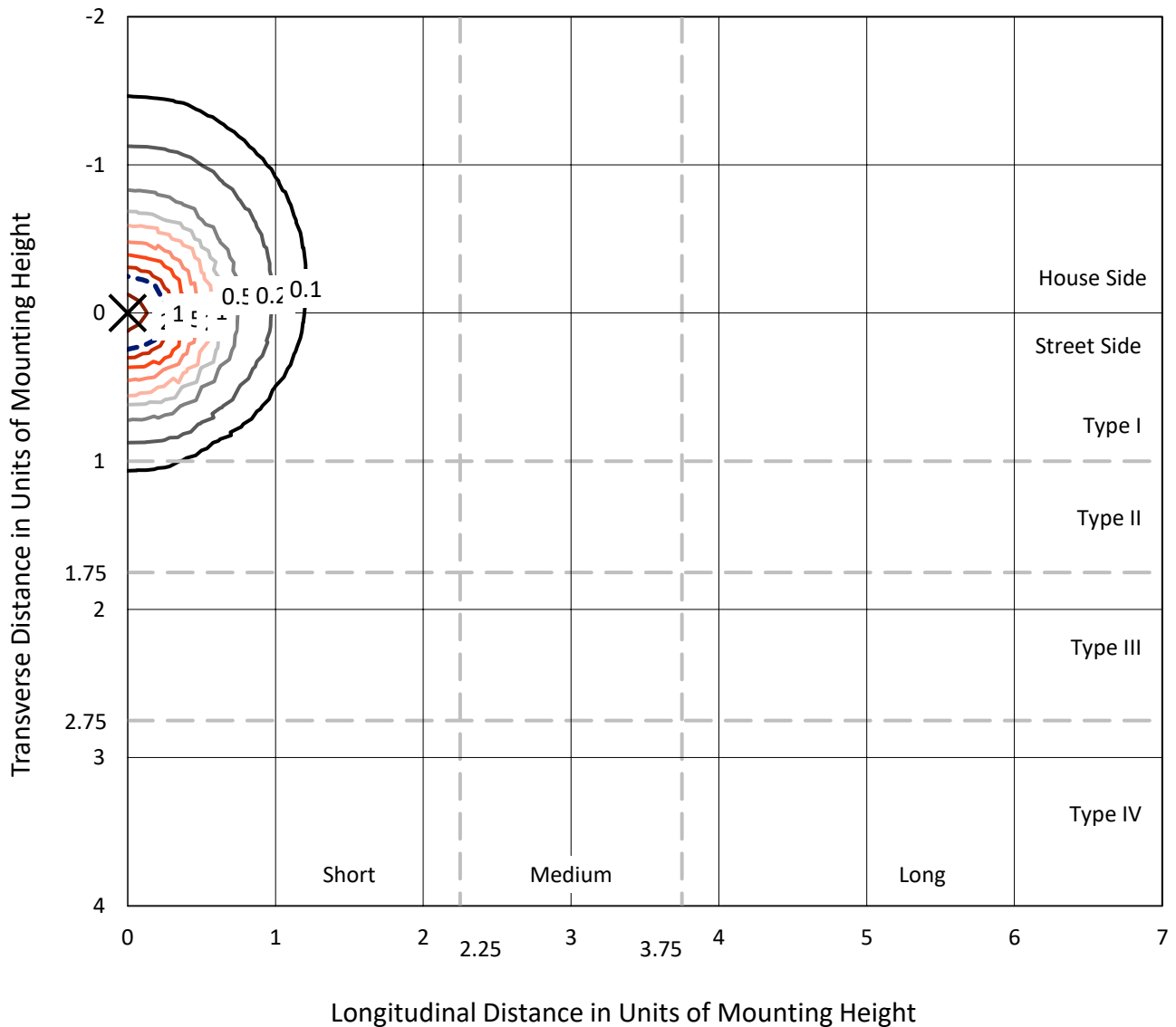
Input Watts (W): 63.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

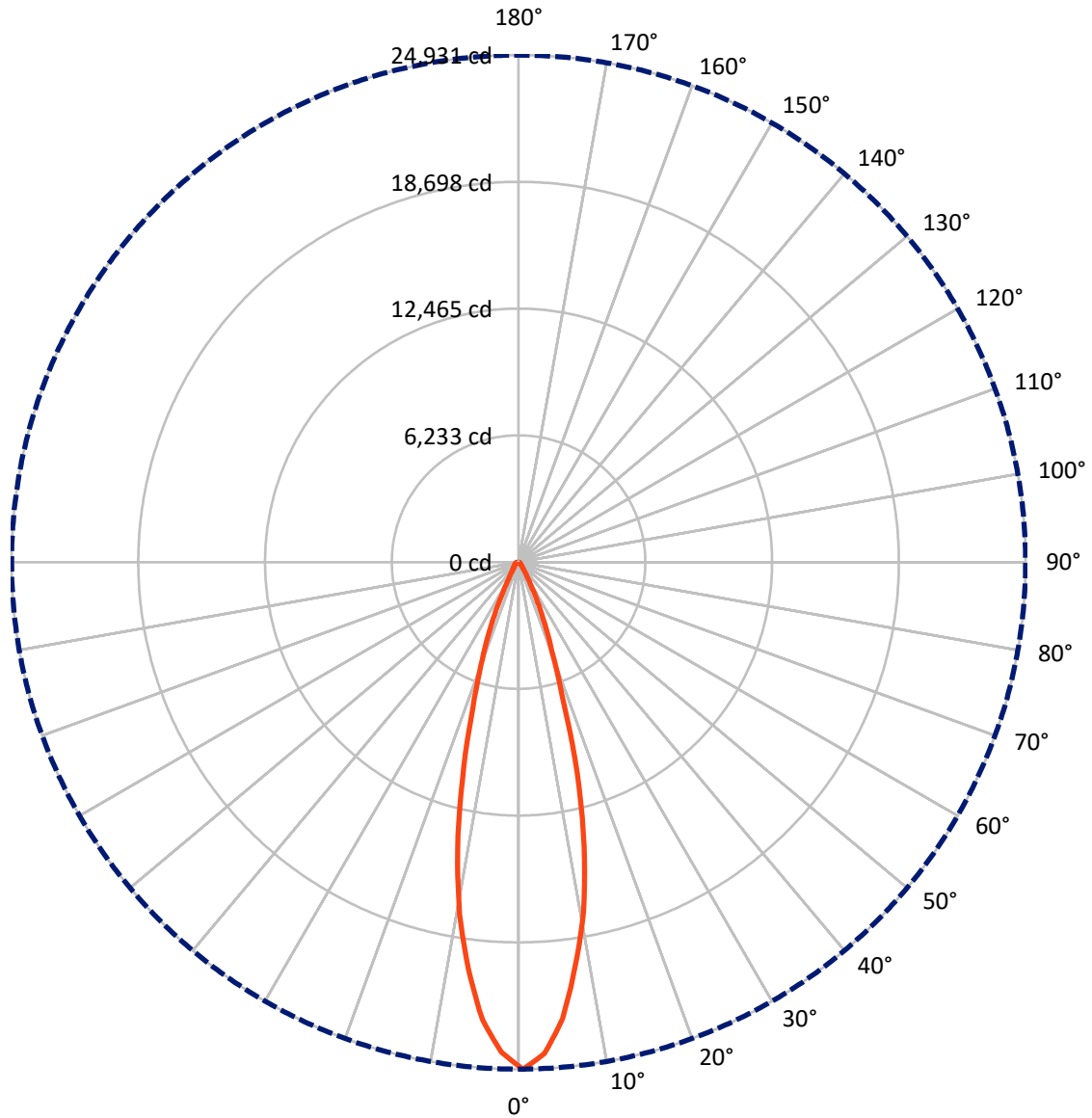
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 0-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3730.6   | 0.0    | 3730.6 |
|                    | % Fixture | 52.7     | 0.0    | 52.7   |
| <b>Street Side</b> | Lumens    | 3344.8   | 0.0    | 3344.8 |
|                    | % Fixture | 47.3     | 0.0    | 47.3   |
| <b>Total</b>       | Lumens    | 7075.4   | 0.0    | 7075.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2012.1 | 28.4      |
| 10°-20°   | 3047.3 | 43.1      |
| 20°-30°   | 1286.0 | 18.2      |
| 30°-40°   | 335.4  | 4.7       |
| 40°-50°   | 169.6  | 2.4       |
| 50°-60°   | 110.9  | 1.6       |
| 60°-70°   | 66.4   | 0.9       |
| 70°-80°   | 35.0   | 0.5       |
| 80°-90°   | 12.6   | 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°    | 7075.4 | 100.0     |
| 0°-180°   | 7075.4 | 100.0     |



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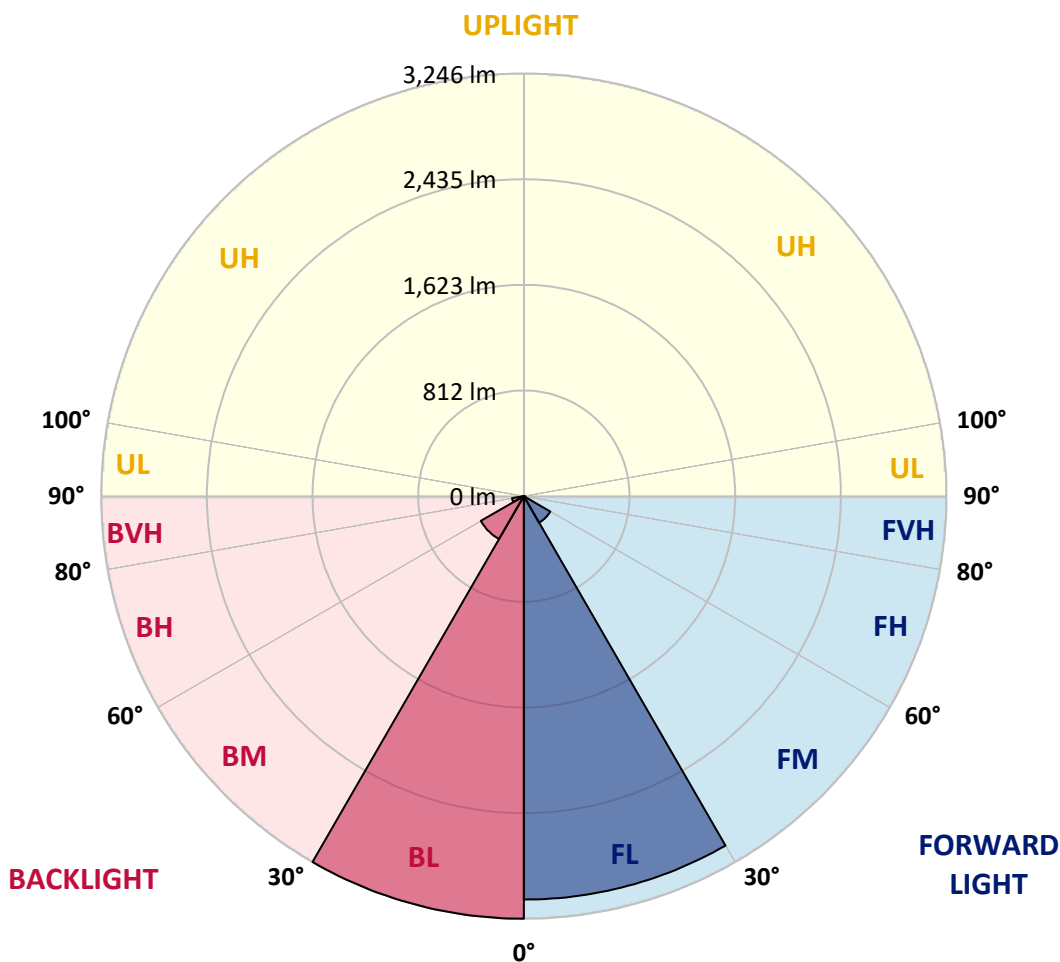
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 3099.0 | 43.8      |                         |      |        |
| FM (30°-60°)   | 234.7  | 3.3       |                         |      |        |
| FH (60°-80°)   | 9.6    | 0.1       |                         |      | G0/660 |
| FVH (80°-90°)  | 1.5    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 3246.5 | 45.9      | B4/5000                 |      |        |
| BM (30°-60°)   | 381.2  | 5.4       | B1/1000                 |      |        |
| BH (60°-80°)   | 91.8   | 1.3       | B0/110                  |      | G0/660 |
| BVH (80°-90°)  | 11.1   | 0.2       |                         |      | G1/100 |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B4-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 24930.5 | 24930.5 | 24930.5 | 24930.5 | 24930.5 | 24930.5 | 24930.5 | 24930.5 | 24930.5 | 24930.5 |
| 2.5°  | 24204.3 | 24217.8 | 24167.8 | 24275.8 | 24191.6 | 24417.3 | 24305.2 | 24480.0 | 24421.2 | 24519.0 |
| 5°    | 22551.6 | 22529.3 | 22515.0 | 22682.7 | 22634.2 | 22876.6 | 22721.6 | 22670.8 | 22828.1 | 22799.5 |
| 7.5°  | 20055.8 | 20114.6 | 20081.3 | 20125.0 | 20149.6 | 20426.1 | 20513.5 | 20445.2 | 20447.6 | 20487.3 |
| 10°   | 17497.3 | 17410.7 | 17287.5 | 17369.4 | 17542.6 | 17663.4 | 17614.9 | 17715.0 | 17692.8 | 17787.3 |
| 12.5° | 14349.2 | 14417.5 | 14348.4 | 14275.3 | 14578.0 | 14544.7 | 14628.9 | 14683.7 | 14546.3 | 14852.2 |
| 15°   | 10808.6 | 10844.3 | 10928.6 | 10923.0 | 11155.8 | 11202.7 | 11191.6 | 11249.6 | 11142.3 | 11193.2 |
| 17.5° | 6943.8  | 7064.6  | 7291.0  | 7674.0  | 8104.7  | 8154.7  | 8142.0  | 8094.3  | 8042.7  | 7985.5  |
| 20°   | 4664.1  | 4651.4  | 4733.3  | 4845.3  | 5736.8  | 5972.8  | 5965.7  | 5816.3  | 5600.2  | 5558.8  |
| 22.5° | 3267.3  | 3291.1  | 3280.0  | 3391.2  | 3575.6  | 4226.3  | 4146.1  | 3994.3  | 3923.6  | 3877.5  |
| 25°   | 2149.3  | 2140.6  | 2196.2  | 2229.6  | 2387.7  | 2467.2  | 2748.4  | 2692.0  | 2583.2  | 2595.1  |
| 27.5° | 1310.3  | 1321.4  | 1342.0  | 1370.6  | 1482.7  | 1457.2  | 1617.8  | 1639.2  | 1604.2  | 1566.9  |
| 30°   | 804.1   | 812.1   | 828.7   | 849.4   | 888.3   | 860.5   | 905.0   | 982.1   | 969.4   | 943.2   |
| 32.5° | 545.9   | 546.7   | 558.6   | 566.5   | 561.8   | 535.5   | 549.8   | 622.9   | 624.5   | 622.2   |
| 35°   | 392.5   | 392.5   | 403.6   | 410.0   | 396.5   | 375.0   | 377.4   | 422.7   | 442.6   | 446.6   |
| 37.5° | 270.9   | 271.7   | 290.8   | 309.9   | 294.8   | 289.2   | 279.7   | 309.9   | 341.7   | 346.4   |
| 40°   | 205.8   | 205.0   | 214.5   | 228.8   | 230.4   | 220.1   | 223.3   | 242.3   | 274.9   | 278.9   |
| 42.5° | 166.9   | 167.7   | 172.4   | 170.8   | 171.6   | 185.1   | 189.9   | 198.6   | 228.8   | 236.0   |
| 45°   | 140.6   | 141.4   | 143.8   | 135.9   | 132.7   | 153.4   | 159.7   | 164.5   | 189.9   | 198.6   |
| 47.5° | 116.0   | 117.6   | 120.0   | 111.2   | 109.7   | 123.2   | 134.3   | 139.1   | 161.3   | 170.8   |
| 50°   | 83.4    | 85.0    | 93.8    | 89.0    | 93.8    | 96.9    | 112.0   | 119.2   | 134.3   | 147.0   |
| 52.5° | 60.4    | 62.0    | 64.4    | 65.2    | 77.1    | 78.7    | 89.8    | 100.9   | 108.1   | 122.4   |
| 55°   | 47.7    | 49.3    | 47.7    | 46.1    | 56.4    | 65.2    | 69.1    | 81.0    | 86.6    | 103.3   |
| 57.5° | 27.0    | 28.6    | 31.0    | 35.8    | 37.3    | 50.1    | 54.0    | 64.4    | 69.1    | 85.0    |
| 60°   | 4.8     | 5.6     | 8.7     | 21.5    | 26.2    | 31.8    | 40.5    | 49.3    | 55.6    | 66.7    |
| 62.5° | 0.8     | 0.8     | 1.6     | 4.8     | 15.1    | 22.2    | 29.4    | 35.0    | 40.5    | 50.9    |
| 65°   | 0.0     | 0.0     | 0.8     | 1.6     | 4.0     | 12.7    | 15.9    | 20.7    | 27.8    | 36.6    |
| 67.5° | 0.0     | 0.0     | 0.8     | 1.6     | 2.4     | 4.8     | 7.2     | 12.7    | 15.9    | 24.6    |
| 70°   | 0.0     | 0.0     | 0.8     | 1.6     | 2.4     | 3.2     | 4.0     | 5.6     | 9.5     | 15.1    |
| 72.5° | 0.0     | 0.0     | 0.8     | 1.6     | 2.4     | 3.2     | 4.0     | 4.8     | 4.8     | 9.5     |
| 75°   | 0.0     | 0.0     | 0.8     | 1.6     | 2.4     | 4.0     | 4.8     | 4.8     | 4.0     | 4.0     |
| 77.5° | 0.0     | 0.0     | 0.8     | 1.6     | 3.2     | 4.8     | 5.6     | 4.8     | 3.2     | 3.2     |
| 80°   | 0.0     | 0.0     | 1.6     | 2.4     | 4.0     | 5.6     | 7.2     | 5.6     | 3.2     | 1.6     |
| 82.5° | 0.0     | 0.0     | 1.6     | 3.2     | 4.0     | 6.4     | 8.7     | 7.2     | 3.2     | 1.6     |
| 85°   | 0.0     | 0.0     | 0.8     | 2.4     | 4.8     | 6.4     | 8.7     | 6.4     | 3.2     | 0.8     |
| 87.5° | 0.0     | 0.0     | 0.8     | 0.8     | 1.6     | 2.4     | 4.8     | 4.0     | 1.6     | 0.8     |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 24930.5 | 0°    | 24930.5 | 24930.5 | 24930.5 | 24930.5 | 24930.5 | 24930.5 | 24930.5 | 24930.5 | 24930.5 |
| 24333.8 | 2.5°  | 24473.7 | 24600.8 | 24627.0 | 24592.1 | 24642.9 | 24551.5 | 24481.6 | 24300.5 | 24191.6 |
| 22790.8 | 5°    | 22937.8 | 22918.7 | 23051.4 | 23095.1 | 23089.5 | 23019.6 | 22921.9 | 22812.2 | 22705.7 |
| 20410.2 | 7.5°  | 20537.4 | 20562.0 | 20682.8 | 20759.8 | 20720.9 | 20633.5 | 20566.0 | 20483.3 | 20411.8 |
| 17821.5 | 10°   | 17984.4 | 17815.1 | 17965.3 | 17965.3 | 18069.4 | 17822.3 | 17845.3 | 17637.2 | 17646.7 |
| 14846.6 | 12.5° | 14897.5 | 14958.6 | 14983.3 | 15054.0 | 14932.4 | 14801.3 | 14640.8 | 14609.0 | 14509.7 |
| 11096.2 | 15°   | 11255.9 | 11430.7 | 11280.6 | 11537.2 | 11413.3 | 11276.6 | 11252.0 | 11005.6 | 11083.5 |
| 8048.2  | 17.5° | 8008.5  | 8201.6  | 8262.0  | 8409.0  | 8296.1  | 8215.1  | 8112.6  | 8037.9  | 8032.3  |
| 5634.3  | 20°   | 5678.8  | 5872.7  | 5917.2  | 6093.6  | 6080.9  | 6055.4  | 5968.8  | 5874.3  | 5771.8  |
| 3835.4  | 22.5° | 3893.4  | 4051.5  | 4199.3  | 4436.9  | 4432.9  | 4358.2  | 4349.5  | 4216.0  | 4218.4  |
| 2591.1  | 25°   | 2618.1  | 2733.3  | 2768.3  | 3011.4  | 3038.5  | 3030.5  | 2985.2  | 2861.3  | 2908.1  |
| 1582.8  | 27.5° | 1584.4  | 1685.3  | 1803.7  | 1889.5  | 1970.5  | 1957.8  | 1912.5  | 1843.4  | 1813.2  |
| 951.1   | 30°   | 976.5   | 1021.8  | 1065.5  | 1168.8  | 1217.3  | 1242.7  | 1221.3  | 1156.9  | 1161.7  |
| 626.1   | 32.5° | 639.6   | 677.8   | 709.6   | 774.7   | 800.1   | 847.0   | 838.3   | 824.8   | 808.9   |
| 450.5   | 35°   | 466.4   | 494.2   | 515.7   | 545.9   | 578.4   | 618.2   | 624.5   | 619.0   | 612.6   |
| 348.0   | 37.5° | 356.0   | 384.6   | 409.2   | 421.9   | 447.3   | 478.3   | 495.8   | 495.0   | 490.3   |
| 283.7   | 40°   | 289.2   | 310.7   | 332.9   | 349.6   | 367.1   | 390.1   | 411.6   | 414.0   | 414.0   |
| 238.4   | 42.5° | 241.6   | 259.8   | 282.1   | 299.6   | 312.3   | 333.7   | 356.0   | 357.6   | 356.0   |
| 201.8   | 45°   | 206.6   | 222.5   | 243.9   | 264.6   | 274.9   | 290.8   | 312.3   | 317.0   | 313.9   |
| 173.2   | 47.5° | 179.6   | 193.9   | 212.2   | 234.4   | 245.5   | 259.8   | 279.7   | 285.3   | 284.5   |
| 149.4   | 50°   | 154.1   | 170.8   | 189.1   | 207.4   | 221.7   | 235.2   | 254.3   | 260.6   | 258.2   |
| 127.1   | 52.5° | 135.9   | 151.0   | 166.9   | 186.7   | 203.4   | 215.3   | 230.4   | 241.6   | 238.4   |
| 107.3   | 55°   | 113.6   | 131.9   | 148.6   | 165.3   | 185.9   | 198.6   | 212.9   | 226.5   | 223.3   |
| 90.6    | 57.5° | 98.5    | 113.6   | 132.7   | 147.8   | 168.4   | 183.5   | 197.8   | 212.2   | 211.4   |
| 73.9    | 60°   | 82.6    | 98.5    | 116.8   | 132.7   | 151.8   | 168.4   | 182.8   | 198.6   | 200.2   |
| 55.6    | 62.5° | 65.2    | 84.2    | 100.1   | 118.4   | 137.5   | 155.7   | 168.4   | 184.3   | 186.7   |
| 42.1    | 65°   | 49.3    | 69.1    | 86.6    | 104.1   | 123.2   | 143.0   | 154.1   | 167.7   | 170.0   |
| 31.0    | 67.5° | 36.6    | 53.2    | 73.9    | 89.8    | 109.7   | 128.7   | 139.1   | 150.2   | 154.1   |
| 19.1    | 70°   | 27.8    | 40.5    | 62.0    | 77.1    | 97.7    | 112.8   | 124.0   | 133.5   | 136.7   |
| 12.7    | 72.5° | 17.5    | 31.8    | 50.1    | 65.9    | 84.2    | 97.7    | 105.7   | 111.2   | 116.0   |
| 7.2     | 75°   | 11.9    | 24.6    | 40.5    | 56.4    | 69.9    | 80.3    | 87.4    | 92.2    | 96.1    |
| 3.2     | 77.5° | 7.2     | 19.1    | 33.4    | 46.9    | 55.6    | 63.6    | 70.7    | 73.9    | 76.3    |
| 2.4     | 80°   | 4.0     | 14.3    | 27.8    | 38.1    | 43.7    | 49.3    | 54.8    | 58.8    | 60.4    |
| 1.6     | 82.5° | 2.4     | 11.1    | 22.2    | 29.4    | 31.8    | 37.3    | 42.9    | 45.3    | 45.3    |
| 0.8     | 85°   | 1.6     | 7.9     | 15.1    | 21.5    | 23.0    | 27.0    | 28.6    | 30.2    | 31.8    |
| 0.8     | 87.5° | 1.6     | 4.8     | 9.5     | 11.9    | 12.7    | 14.3    | 15.1    | 16.7    | 18.3    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |





|                |
|----------------|
| 180°           |
| <u>24930.5</u> |
| 24111.3        |
| 22586.6        |
| 20169.5        |
| 17553.7        |
| 14419.1        |
| 11005.6        |
| 7884.6         |
| 5727.3         |
| 4172.3         |
| 2834.2         |
| 1787.0         |
| 1141.0         |
| 803.3          |
| 610.2          |
| 487.9          |
| 409.2          |
| 354.4          |
| 313.9          |
| 282.9          |
| 256.6          |
| 237.6          |
| 224.9          |
| 212.2          |
| 201.0          |
| 188.3          |
| 172.4          |
| 155.7          |
| 138.3          |
| 115.2          |
| 95.3           |
| 75.5           |
| 58.8           |
| 44.5           |
| 31.0           |
| 17.5           |
| 0.0            |

(END OF REPORT)