

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: P637991

Luminaire Tested: **IFLD-S-SA3C-827-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637991  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-827-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (48) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13129.6 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

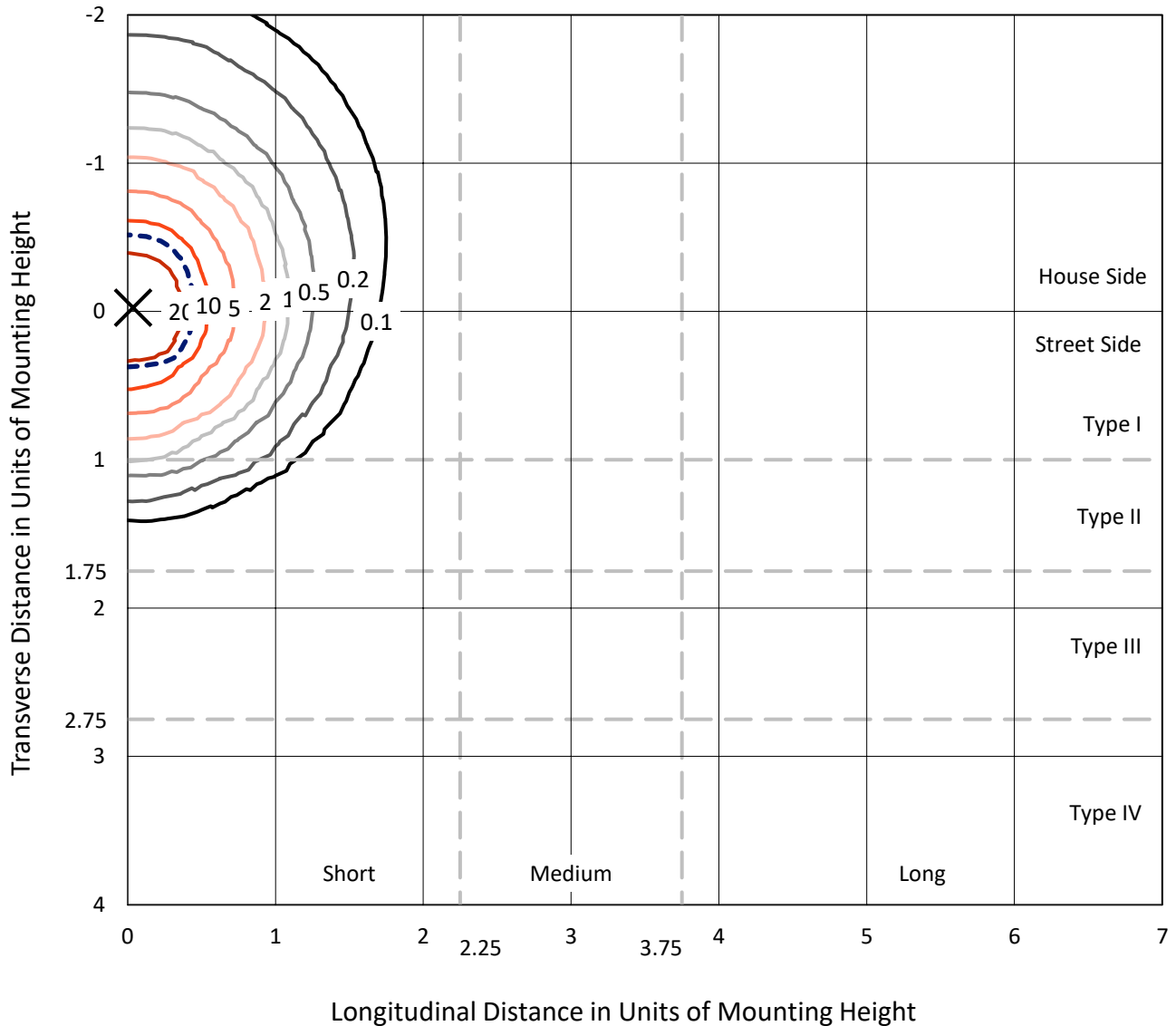
Input Watts (W): 160.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

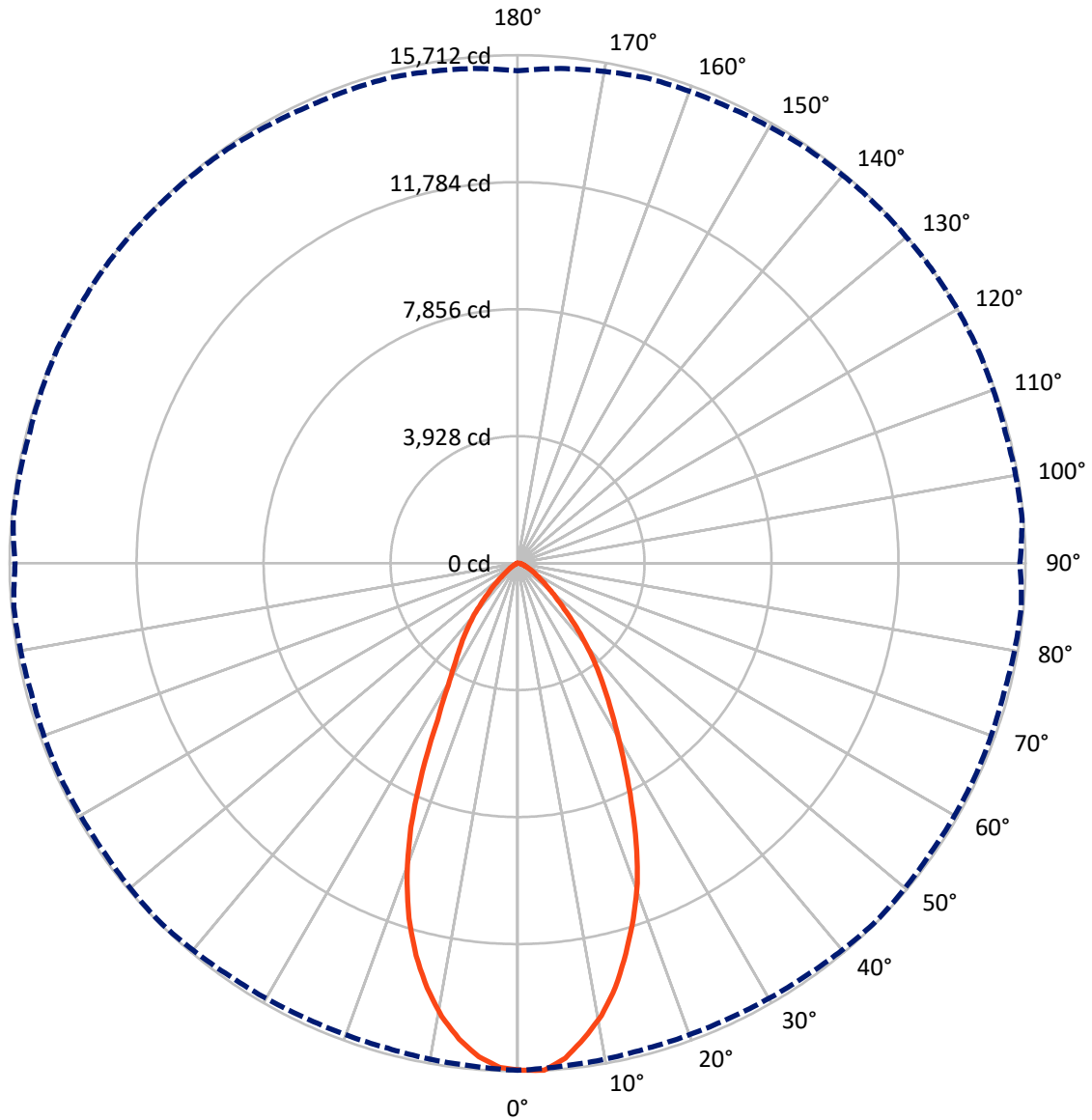
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 39.2 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7450.2   | 0.0    | 7450.2  |
|                    | % Fixture | 56.7     | 0.0    | 56.7    |
| <b>Street Side</b> | Lumens    | 5679.3   | 0.0    | 5679.3  |
|                    | % Fixture | 43.3     | 0.0    | 43.3    |
| <b>Total</b>       | Lumens    | 13129.6  | 0.0    | 13129.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1424.4  | 10.8      |
| 10°-20°   | 3395.5  | 25.9      |
| 20°-30°   | 3458.2  | 26.3      |
| 30°-40°   | 2578.8  | 19.6      |
| 40°-50°   | 1347.2  | 10.3      |
| 50°-60°   | 566.7   | 4.3       |
| 60°-70°   | 231.4   | 1.8       |
| 70°-80°   | 97.4    | 0.7       |
| 80°-90°   | 30.0    | 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°    | 13129.6 | 100.0     |
| 0°-180°   | 13129.6 | 100.0     |



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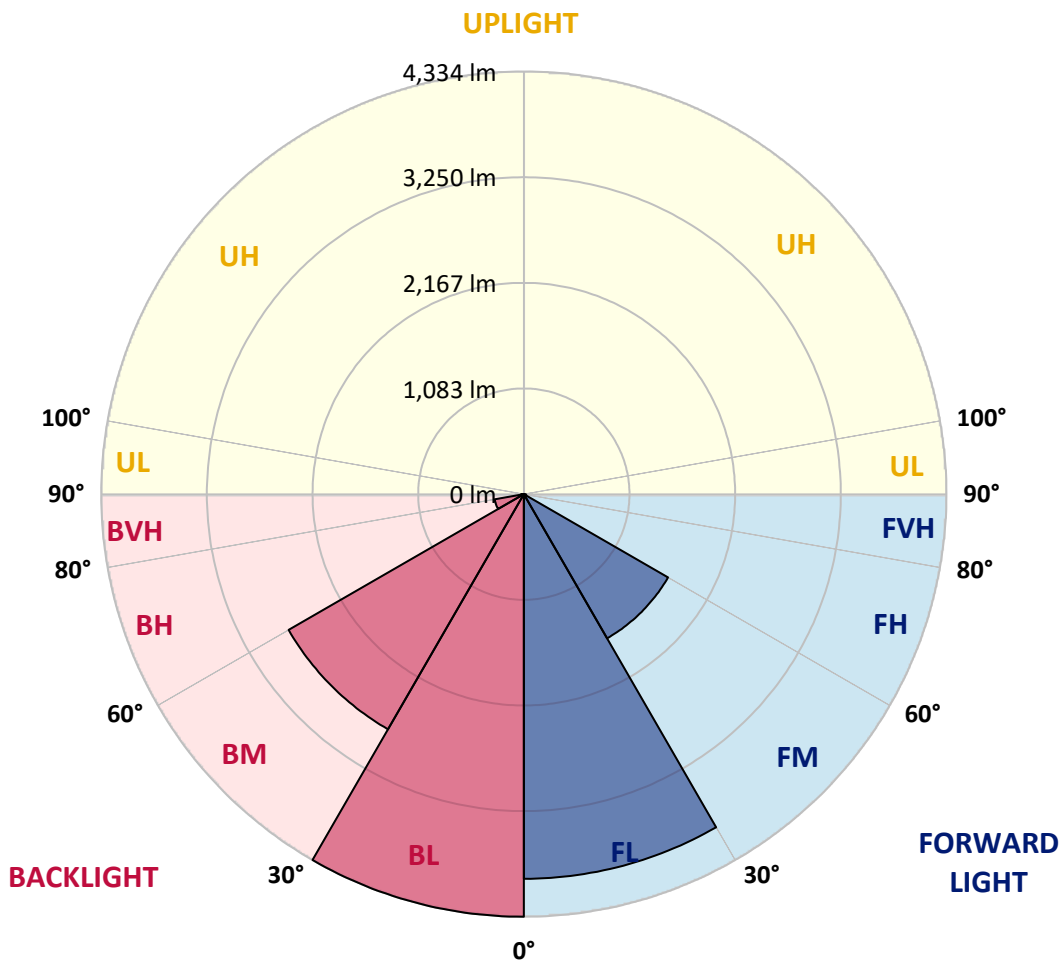
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 3944.3 | 30.0      |                         |      |        |
| FM (30°-60°)   | 1707.6 | 13.0      |                         |      |        |
| FH (60°-80°)   | 24.7   | 0.2       |                         |      | G0/660 |
| FVH (80°-90°)  | 2.8    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 4333.8 | 33.0      | B4/5000                 |      |        |
| BM (30°-60°)   | 2785.1 | 21.2      | B3/5000                 |      |        |
| BH (60°-80°)   | 304.1  | 2.3       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 27.2   | 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 I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 15686.6 | 15686.6 | 15686.6 | 15686.6 | 15686.6 | 15686.6 | 15686.6 | 15686.6 | 15686.6 | 15686.6 |
| 2.5°  | 15688.3 | 15624.2 | 15533.2 | 15524.7 | 15571.9 | 15674.8 | 15609.1 | 15612.4 | 15571.9 | 15641.1 |
| 5°    | 15442.1 | 15381.4 | 15319.0 | 15236.3 | 15305.5 | 15349.3 | 15315.6 | 15278.5 | 15226.2 | 15293.7 |
| 7.5°  | 14976.6 | 14942.9 | 14850.1 | 14813.0 | 14855.2 | 14904.1 | 14831.6 | 14821.4 | 14748.9 | 14836.6 |
| 10°   | 14264.9 | 14251.4 | 14160.3 | 14138.4 | 14175.5 | 14249.7 | 14217.6 | 14210.9 | 14165.4 | 14156.9 |
| 12.5° | 13526.2 | 13473.9 | 13360.9 | 13354.1 | 13409.8 | 13521.1 | 13435.1 | 13352.4 | 13377.7 | 13399.7 |
| 15°   | 11623.7 | 11568.1 | 11848.0 | 12288.2 | 12519.3 | 12510.9 | 12536.2 | 12436.6 | 12406.3 | 12416.4 |
| 17.5° | 9240.6  | 9146.2  | 9247.4  | 9928.7  | 11026.7 | 11664.2 | 11488.8 | 11274.6 | 11159.9 | 11084.0 |
| 20°   | 7975.7  | 7980.8  | 7962.2  | 8137.6  | 8822.4  | 10276.2 | 10234.0 | 9820.8  | 9670.7  | 9608.3  |
| 22.5° | 7206.6  | 7178.0  | 7137.5  | 7193.2  | 7377.0  | 8230.4  | 8802.1  | 8422.6  | 8370.4  | 8301.2  |
| 25°   | 6452.8  | 6452.8  | 6403.8  | 6459.5  | 6511.8  | 6523.6  | 7097.0  | 7252.2  | 7151.0  | 7151.0  |
| 27.5° | 5800.1  | 5766.3  | 5744.4  | 5769.7  | 5700.6  | 5368.3  | 5440.8  | 6235.2  | 6166.0  | 6123.9  |
| 30°   | 5152.4  | 5142.3  | 5105.2  | 5138.9  | 4882.6  | 4508.2  | 4356.4  | 5262.0  | 5334.6  | 5319.4  |
| 32.5° | 4253.5  | 4294.0  | 4459.2  | 4511.5  | 4073.0  | 3771.1  | 3626.1  | 4368.2  | 4658.3  | 4646.5  |
| 35°   | 2890.8  | 2924.5  | 3113.4  | 3737.4  | 3376.5  | 3160.6  | 3118.4  | 3474.3  | 3951.6  | 3997.1  |
| 37.5° | 2302.1  | 2297.1  | 2351.1  | 2462.4  | 2713.7  | 2661.4  | 2649.6  | 2742.3  | 3223.0  | 3243.2  |
| 40°   | 1897.4  | 1890.6  | 1888.9  | 1797.9  | 1735.5  | 2212.8  | 2180.7  | 2125.1  | 2541.6  | 2582.1  |
| 42.5° | 1529.7  | 1536.5  | 1541.5  | 1342.5  | 1251.4  | 1706.8  | 1688.2  | 1630.9  | 1993.5  | 2040.7  |
| 45°   | 1200.8  | 1199.1  | 1209.3  | 1000.1  | 974.8   | 1091.2  | 1261.5  | 1216.0  | 1504.4  | 1555.0  |
| 47.5° | 622.3   | 644.3   | 780.9   | 774.1   | 785.9   | 774.1   | 954.6   | 942.8   | 1131.7  | 1212.6  |
| 50°   | 418.3   | 425.0   | 436.8   | 438.5   | 619.0   | 570.1   | 647.6   | 733.7   | 792.7   | 917.5   |
| 52.5° | 323.8   | 328.9   | 298.5   | 280.0   | 379.5   | 421.6   | 425.0   | 507.7   | 553.2   | 679.7   |
| 55°   | 180.5   | 202.4   | 217.6   | 219.3   | 209.1   | 312.0   | 310.3   | 376.1   | 411.5   | 495.8   |
| 57.5° | 23.6    | 28.7    | 43.9    | 141.7   | 140.0   | 173.7   | 217.6   | 273.2   | 293.5   | 362.6   |
| 60°   | 1.7     | 3.4     | 5.1     | 21.9    | 92.8    | 101.2   | 148.4   | 170.3   | 204.1   | 254.7   |
| 62.5° | 0.0     | 0.0     | 1.7     | 5.1     | 18.6    | 59.0    | 77.6    | 89.4    | 119.7   | 167.0   |
| 65°   | 0.0     | 0.0     | 1.7     | 3.4     | 6.7     | 21.9    | 30.4    | 48.9    | 70.8    | 102.9   |
| 67.5° | 0.0     | 0.0     | 1.7     | 3.4     | 5.1     | 8.4     | 13.5    | 21.9    | 37.1    | 62.4    |
| 70°   | 0.0     | 0.0     | 1.7     | 3.4     | 5.1     | 6.7     | 10.1    | 13.5    | 20.2    | 33.7    |
| 72.5° | 0.0     | 0.0     | 1.7     | 1.7     | 3.4     | 8.4     | 8.4     | 10.1    | 13.5    | 18.6    |
| 75°   | 0.0     | 0.0     | 1.7     | 3.4     | 5.1     | 8.4     | 8.4     | 8.4     | 10.1    | 11.8    |
| 77.5° | 0.0     | 0.0     | 1.7     | 3.4     | 5.1     | 8.4     | 6.7     | 8.4     | 8.4     | 8.4     |
| 80°   | 0.0     | 0.0     | 1.7     | 3.4     | 5.1     | 8.4     | 10.1    | 8.4     | 6.7     | 6.7     |
| 82.5° | 0.0     | 0.0     | 1.7     | 5.1     | 5.1     | 11.8    | 11.8    | 11.8    | 5.1     | 5.1     |
| 85°   | 0.0     | 0.0     | 3.4     | 5.1     | 8.4     | 13.5    | 13.5    | 10.1    | 5.1     | 3.4     |
| 87.5° | 0.0     | 0.0     | 1.7     | 3.4     | 3.4     | 6.7     | 10.1    | 8.4     | 3.4     | 1.7     |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 15686.6 | 0°    | 15686.6 | 15686.6 | 15686.6 | 15686.6 | 15686.6 | 15686.6 | 15686.6 | 15686.6 | 15686.6 |
| 15539.9 | 2.5°  | 15664.7 | 15622.5 | 15701.8 | 15711.9 | 15678.2 | 15636.0 | 15538.2 | 15529.8 | 15359.4 |
| 15195.8 | 5°    | 15367.9 | 15298.7 | 15349.3 | 15383.1 | 15371.2 | 15325.7 | 15285.2 | 15248.1 | 15094.7 |
| 14637.6 | 7.5°  | 14814.7 | 14789.4 | 14813.0 | 14838.3 | 14887.2 | 14838.3 | 14821.4 | 14782.6 | 14630.9 |
| 14087.8 | 10°   | 14200.8 | 14153.6 | 14242.9 | 14231.1 | 14217.6 | 14204.2 | 14133.3 | 14140.1 | 13961.3 |
| 13339.0 | 12.5° | 13446.9 | 13367.6 | 13453.6 | 13463.8 | 13453.6 | 13406.4 | 13327.1 | 13360.9 | 13197.3 |
| 12327.0 | 15°   | 12433.3 | 12424.8 | 12487.2 | 12527.7 | 12556.4 | 12505.8 | 12478.8 | 12495.7 | 12397.9 |
| 11025.0 | 17.5° | 11188.6 | 11298.2 | 11502.3 | 11571.4 | 11573.1 | 11625.4 | 11610.2 | 11590.0 | 11517.5 |
| 9583.0  | 20°   | 9724.7  | 9935.5  | 10249.2 | 10571.3 | 10664.1 | 10620.2 | 10600.0 | 10637.1 | 10529.2 |
| 8228.7  | 22.5° | 8373.7  | 8554.2  | 8918.5  | 9389.0  | 9660.6  | 9687.6  | 9682.5  | 9650.5  | 9608.3  |
| 7144.2  | 25°   | 7226.9  | 7387.1  | 7736.2  | 8166.3  | 8687.4  | 8765.0  | 8768.4  | 8758.3  | 8721.2  |
| 6161.0  | 27.5° | 6258.8  | 6452.8  | 6645.0  | 7029.6  | 7584.4  | 7904.9  | 7864.4  | 7852.6  | 7839.1  |
| 5331.2  | 30°   | 5381.8  | 5626.3  | 5806.8  | 6046.3  | 6543.8  | 6977.3  | 7019.4  | 6999.2  | 6967.2  |
| 4644.8  | 32.5° | 4686.9  | 4832.0  | 5061.3  | 5223.3  | 5580.8  | 6071.6  | 6233.5  | 6218.3  | 6189.7  |
| 4025.8  | 35°   | 4083.1  | 4140.5  | 4321.0  | 4501.4  | 4739.2  | 5214.8  | 5454.3  | 5420.6  | 5415.5  |
| 3280.3  | 37.5° | 3363.0  | 3555.3  | 3654.8  | 3836.9  | 4003.9  | 4373.2  | 4703.8  | 4688.6  | 4690.3  |
| 2637.8  | 40°   | 2715.4  | 2826.7  | 3024.0  | 3177.5  | 3330.9  | 3600.8  | 3968.5  | 3978.6  | 3975.2  |
| 2042.4  | 42.5° | 2084.6  | 2192.5  | 2400.0  | 2566.9  | 2703.5  | 2870.5  | 3221.3  | 3233.1  | 3248.3  |
| 1590.4  | 45°   | 1627.5  | 1696.7  | 1848.5  | 2022.2  | 2167.2  | 2268.4  | 2534.9  | 2610.8  | 2612.5  |
| 1232.9  | 47.5° | 1263.2  | 1342.5  | 1450.4  | 1617.4  | 1759.1  | 1831.6  | 2025.6  | 2128.4  | 2123.4  |
| 946.2   | 50°   | 991.7   | 1064.2  | 1151.9  | 1283.5  | 1436.9  | 1494.3  | 1637.6  | 1738.8  | 1733.8  |
| 713.4   | 52.5° | 758.9   | 851.7   | 929.3   | 1030.5  | 1180.6  | 1229.5  | 1332.4  | 1448.7  | 1431.9  |
| 522.8   | 55°   | 575.1   | 669.6   | 742.1   | 826.4   | 963.0   | 1025.4  | 1096.3  | 1189.0  | 1192.4  |
| 404.8   | 57.5° | 433.4   | 531.3   | 597.0   | 683.1   | 785.9   | 855.1   | 909.1   | 1008.6  | 1006.9  |
| 276.6   | 60°   | 310.3   | 394.7   | 473.9   | 563.3   | 642.6   | 721.8   | 758.9   | 853.4   | 856.8   |
| 195.6   | 62.5° | 224.3   | 303.6   | 379.5   | 457.1   | 527.9   | 605.5   | 639.2   | 713.4   | 723.5   |
| 128.2   | 65°   | 156.8   | 212.5   | 300.2   | 359.2   | 438.5   | 495.8   | 539.7   | 603.8   | 615.6   |
| 75.9    | 67.5° | 101.2   | 153.5   | 237.8   | 290.1   | 362.6   | 411.5   | 457.1   | 507.7   | 522.8   |
| 48.9    | 70°   | 60.7    | 116.4   | 177.1   | 232.7   | 298.5   | 342.4   | 386.2   | 430.1   | 438.5   |
| 23.6    | 72.5° | 38.8    | 81.0    | 128.2   | 188.9   | 239.5   | 286.7   | 325.5   | 357.5   | 332.3   |
| 15.2    | 75°   | 21.9    | 55.7    | 101.2   | 148.4   | 194.0   | 239.5   | 271.5   | 288.4   | 231.1   |
| 10.1    | 77.5° | 13.5    | 40.5    | 82.6    | 119.7   | 150.1   | 192.3   | 212.5   | 222.6   | 165.3   |
| 6.7     | 80°   | 8.4     | 30.4    | 69.1    | 97.8    | 97.8    | 141.7   | 165.3   | 173.7   | 119.7   |
| 5.1     | 82.5° | 6.7     | 21.9    | 54.0    | 74.2    | 65.8    | 106.3   | 129.9   | 131.6   | 84.3    |
| 3.4     | 85°   | 5.1     | 16.9    | 33.7    | 48.9    | 45.5    | 74.2    | 75.9    | 84.3    | 55.7    |
| 3.4     | 87.5° | 3.4     | 10.1    | 20.2    | 28.7    | 25.3    | 35.4    | 40.5    | 45.5    | 30.4    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |





| 180°    |
|---------|
| 15686.6 |
| 15226.2 |
| 14971.5 |
| 14598.8 |
| 13900.6 |
| 13150.1 |
| 12279.8 |
| 11409.5 |
| 10451.6 |
| 9527.3  |
| 8596.4  |
| 7759.8  |
| 6926.7  |
| 6113.8  |
| 5359.9  |
| 4636.3  |
| 3916.2  |
| 3197.7  |
| 2568.6  |
| 2104.8  |
| 1733.8  |
| 1433.6  |
| 1192.4  |
| 1003.5  |
| 848.3   |
| 720.2   |
| 612.2   |
| 521.1   |
| 431.8   |
| 308.6   |
| 219.3   |
| 155.2   |
| 111.3   |
| 77.6    |
| 50.6    |
| 27.0    |
| 0.0     |

(END OF REPORT)