

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: P638552

Luminaire Tested: **IFLD-M-SA4C-830-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638552  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-830-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (64) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16651 lumens  
Efficiency: N/A  
Efficacy: 76.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

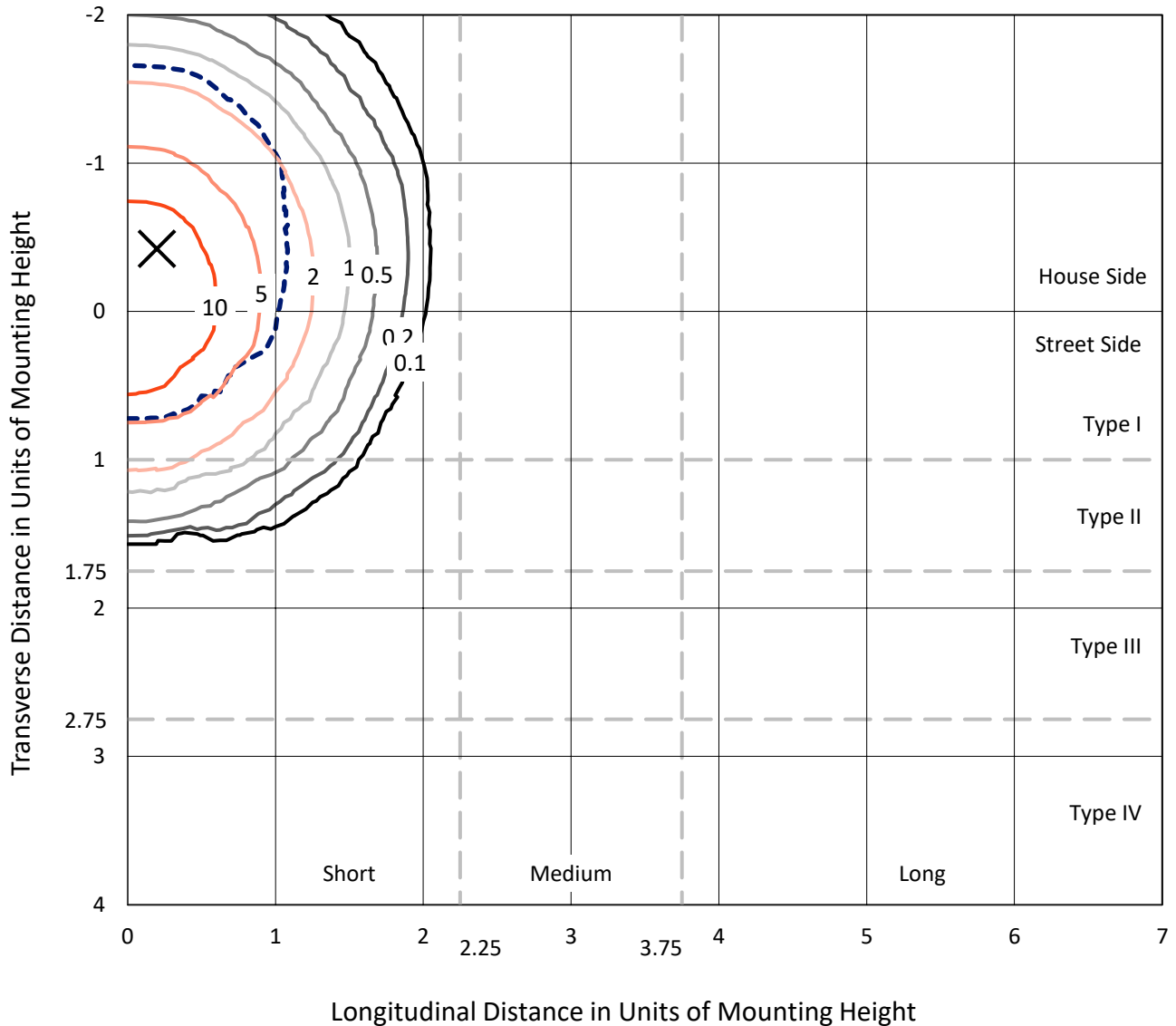
Input Watts (W): 218.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

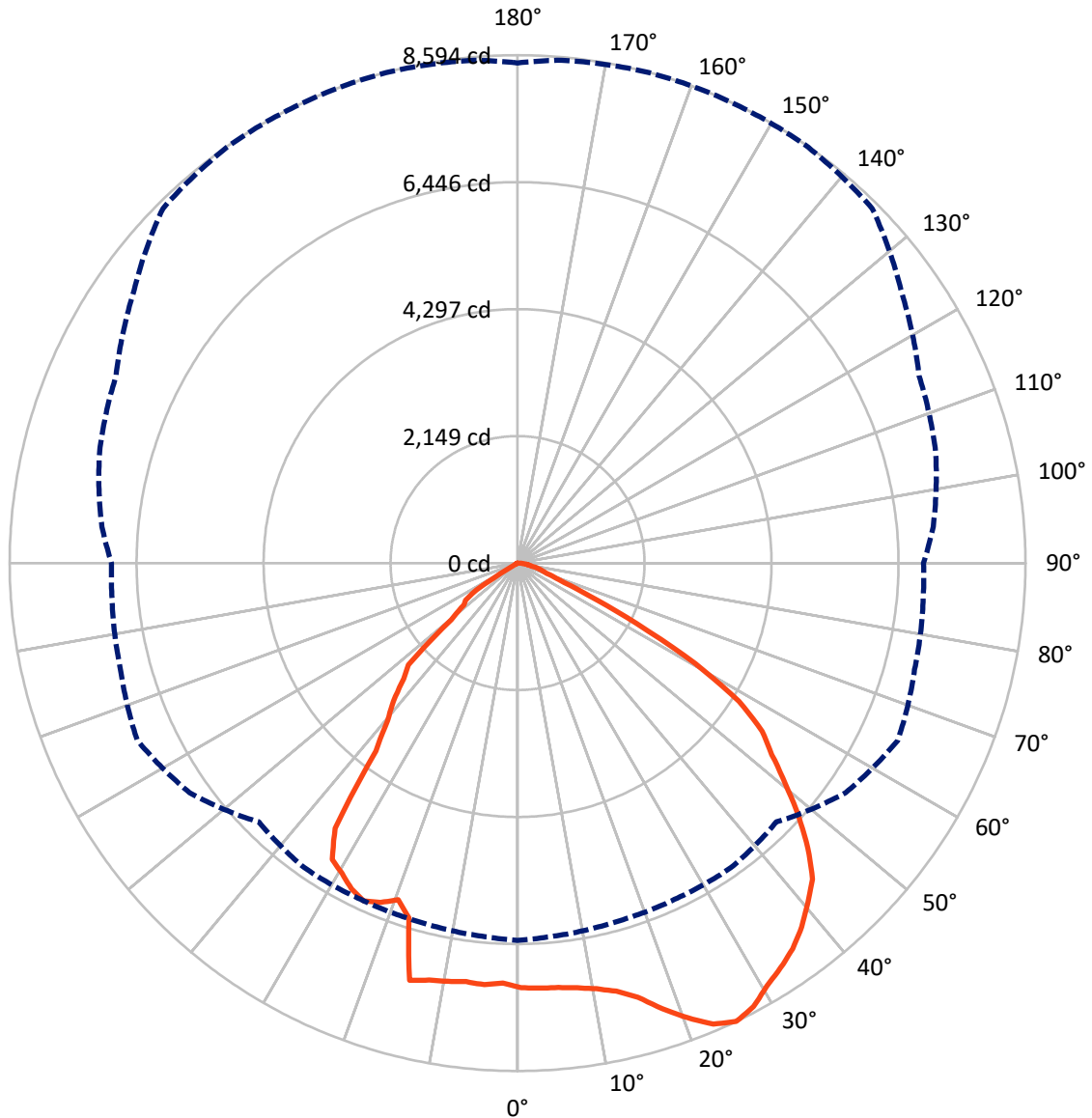
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18 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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10308.7  | 0.0    | 10308.7 |
|                    | % Fixture | 61.9     | 0.0    | 61.9    |
| <b>Street Side</b> | Lumens    | 6342.3   | 0.0    | 6342.3  |
|                    | % Fixture | 38.1     | 0.0    | 38.1    |
| <b>Total</b>       | Lumens    | 16651.0  | 0.0    | 16651.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 689.3   | 4.1       |
| 10°-20°   | 2104.6  | 12.6      |
| 20°-30°   | 3327.3  | 20.0      |
| 30°-40°   | 3758.5  | 22.6      |
| 40°-50°   | 3519.9  | 21.1      |
| 50°-60°   | 2426.7  | 14.6      |
| 60°-70°   | 652.0   | 3.9       |
| 70°-80°   | 135.9   | 0.8       |
| 80°-90°   | 36.7    | 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°    | 16651.0 | 100.0     |
| 0°-180°   | 16651.0 | 100.0     |



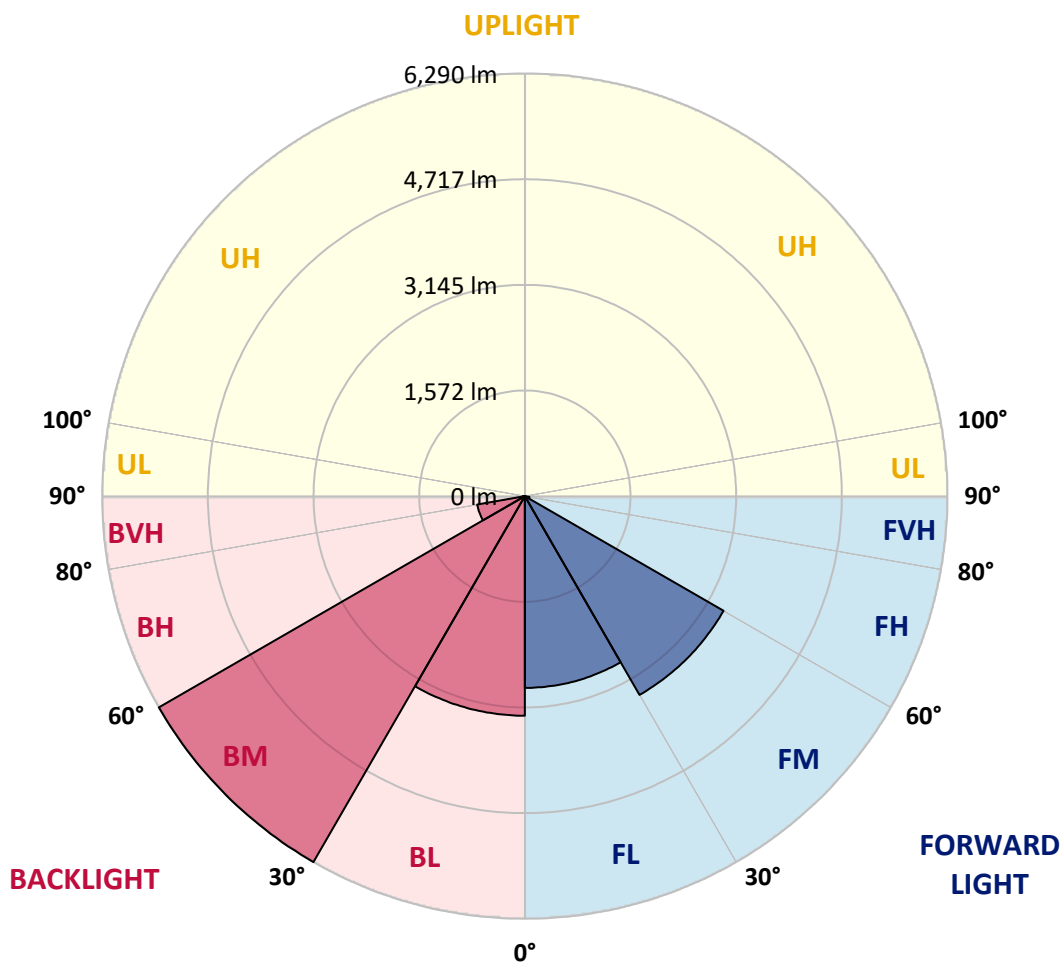
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2853.5 | 17.1      |                         |      |         |
| FM (30°-60°)   | 3415.5 | 20.5      |                         |      |         |
| FH (60°-80°)   | 68.4   | 0.4       |                         |      | G0/660  |
| FVH (80°-90°)  | 4.9    | 0.0       |                         |      | G0/10   |
| BL (0°-30°)    | 3267.8 | 19.6      | B4/5000                 |      |         |
| BM (30°-60°)   | 6289.7 | 37.8      | B4/8500                 |      |         |
| BH (60°-80°)   | 719.4  | 4.3       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 31.8   | 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-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7184.6 | 7184.6 | 7184.6 | 7184.6 | 7184.6 | 7184.6 | 7184.6 | 7184.6 | 7184.6 | 7184.6 |
| 2.5°  | 7216.4 | 7169.9 | 7125.9 | 7111.2 | 7172.4 | 7238.4 | 7196.8 | 7199.3 | 7184.6 | 7211.5 |
| 5°    | 7270.3 | 7206.6 | 7177.3 | 7155.2 | 7165.0 | 7233.5 | 7174.8 | 7196.8 | 7172.4 | 7204.2 |
| 7.5°  | 7250.7 | 7206.6 | 7177.3 | 7135.7 | 7167.5 | 7248.2 | 7191.9 | 7194.4 | 7182.2 | 7211.5 |
| 10°   | 7238.4 | 7206.6 | 7169.9 | 7174.8 | 7211.5 | 7280.0 | 7236.0 | 7260.5 | 7243.3 | 7260.5 |
| 12.5° | 7267.8 | 7233.5 | 7214.0 | 7214.0 | 7245.8 | 7324.1 | 7302.1 | 7324.1 | 7316.7 | 7331.4 |
| 15°   | 6991.3 | 7023.1 | 7209.1 | 7292.3 | 7355.9 | 7434.2 | 7424.4 | 7446.4 | 7451.3 | 7473.4 |
| 17.5° | 5897.4 | 5865.6 | 5851.0 | 6279.2 | 7417.1 | 7659.3 | 7652.0 | 7649.6 | 7625.1 | 7608.0 |
| 20°   | 6041.8 | 6029.6 | 6012.5 | 6044.3 | 6171.5 | 7776.8 | 7825.7 | 7524.8 | 7436.7 | 7429.3 |
| 22.5° | 6271.8 | 6252.3 | 6188.6 | 6191.1 | 6230.2 | 6761.3 | 7583.5 | 7309.4 | 7280.0 | 7262.9 |
| 25°   | 6384.4 | 6345.3 | 6293.9 | 6279.2 | 6291.4 | 6193.5 | 6773.5 | 7099.0 | 6954.6 | 6888.5 |
| 27.5° | 6186.2 | 6188.6 | 6147.0 | 6186.2 | 6139.7 | 5699.2 | 5452.1 | 6687.9 | 6683.0 | 6653.6 |
| 30°   | 6036.9 | 6029.6 | 5980.6 | 6029.6 | 5709.0 | 5217.2 | 5111.9 | 6237.6 | 6186.2 | 6147.0 |
| 32.5° | 5579.3 | 5584.2 | 5726.2 | 5917.0 | 5390.9 | 5001.8 | 4683.7 | 5572.0 | 6059.0 | 6036.9 |
| 35°   | 3991.2 | 4001.0 | 4505.1 | 5447.2 | 4908.8 | 4573.6 | 4549.1 | 4815.8 | 5858.3 | 5868.1 |
| 37.5° | 3841.9 | 3841.9 | 3829.7 | 3983.8 | 4529.5 | 4399.8 | 4448.8 | 4421.9 | 5366.4 | 5390.9 |
| 40°   | 3734.2 | 3712.2 | 3695.1 | 3452.8 | 3149.4 | 4277.5 | 4311.7 | 4189.4 | 5072.8 | 5077.7 |
| 42.5° | 3604.5 | 3580.1 | 3585.0 | 3137.1 | 2819.0 | 3974.0 | 3878.6 | 3714.7 | 4583.4 | 4588.3 |
| 45°   | 3367.2 | 3408.8 | 3438.1 | 2745.6 | 2721.1 | 2838.6 | 3577.6 | 3474.8 | 4253.0 | 4343.6 |
| 47.5° | 1713.0 | 1749.7 | 2684.4 | 2525.4 | 2581.7 | 2522.9 | 3022.1 | 3024.6 | 3538.5 | 3839.5 |
| 50°   | 1553.9 | 1544.1 | 1546.6 | 1473.1 | 2383.4 | 2040.9 | 2185.2 | 2772.5 | 2833.7 | 3264.4 |
| 52.5° | 1448.7 | 1446.2 | 1296.9 | 1152.6 | 1497.6 | 1796.2 | 1585.7 | 2006.6 | 2106.9 | 2765.2 |
| 55°   | 1071.8 | 1150.1 | 1022.9 | 1084.1 | 937.2  | 1438.9 | 1431.5 | 1810.8 | 1845.1 | 2217.0 |
| 57.5° | 9.8    | 12.2   | 29.4   | 824.7  | 648.5  | 719.4  | 988.6  | 1235.8 | 1296.9 | 1727.6 |
| 60°   | 2.4    | 4.9    | 12.2   | 24.5   | 420.9  | 442.9  | 660.7  | 714.5  | 805.1  | 1030.2 |
| 62.5° | 0.0    | 0.0    | 4.9    | 12.2   | 22.0   | 181.1  | 210.4  | 230.0  | 354.8  | 526.1  |
| 65°   | 0.0    | 0.0    | 2.4    | 7.3    | 12.2   | 29.4   | 51.4   | 107.7  | 154.2  | 190.9  |
| 67.5° | 0.0    | 0.0    | 2.4    | 4.9    | 9.8    | 14.7   | 29.4   | 41.6   | 66.1   | 112.6  |
| 70°   | 0.0    | 0.0    | 2.4    | 4.9    | 7.3    | 12.2   | 19.6   | 29.4   | 39.2   | 56.3   |
| 72.5° | 0.0    | 0.0    | 2.4    | 4.9    | 4.9    | 14.7   | 14.7   | 22.0   | 29.4   | 36.7   |
| 75°   | 0.0    | 0.0    | 2.4    | 2.4    | 4.9    | 9.8    | 14.7   | 17.1   | 19.6   | 29.4   |
| 77.5° | 0.0    | 0.0    | 2.4    | 4.9    | 7.3    | 9.8    | 12.2   | 19.6   | 17.1   | 17.1   |
| 80°   | 0.0    | 0.0    | 2.4    | 7.3    | 7.3    | 12.2   | 14.7   | 19.6   | 12.2   | 12.2   |
| 82.5° | 0.0    | 0.0    | 2.4    | 9.8    | 7.3    | 24.5   | 24.5   | 26.9   | 9.8    | 9.8    |
| 85°   | 0.0    | 0.0    | 7.3    | 4.9    | 14.7   | 24.5   | 22.0   | 14.7   | 12.2   | 7.3    |
| 87.5° | 0.0    | 0.0    | 2.4    | 2.4    | 4.9    | 7.3    | 17.1   | 14.7   | 4.9    | 4.9    |
| 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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**CANDELA DISTRIBUTION (continued):**

| 90°    |       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7184.6 | 0°    | 7184.6 | 7184.6 | 7184.6 | 7184.6 | 7184.6 | 7184.6 | 7184.6 | 7184.6 | 7184.6 |
| 7140.6 | 2.5°  | 7238.4 | 7206.6 | 7272.7 | 7265.4 | 7233.5 | 7218.9 | 7201.7 | 7187.1 | 7079.4 |
| 7145.5 | 5°    | 7240.9 | 7191.9 | 7272.7 | 7258.0 | 7253.1 | 7228.7 | 7214.0 | 7236.0 | 7138.1 |
| 7165.0 | 7.5°  | 7240.9 | 7191.9 | 7280.0 | 7284.9 | 7277.6 | 7258.0 | 7255.6 | 7270.3 | 7189.5 |
| 7199.3 | 10°   | 7289.8 | 7270.3 | 7343.7 | 7351.0 | 7341.2 | 7336.3 | 7324.1 | 7314.3 | 7228.7 |
| 7316.7 | 12.5° | 7392.6 | 7353.5 | 7436.7 | 7458.7 | 7451.3 | 7463.6 | 7434.2 | 7448.9 | 7360.8 |
| 7436.7 | 15°   | 7517.4 | 7519.9 | 7583.5 | 7632.4 | 7627.5 | 7666.7 | 7622.6 | 7661.8 | 7598.2 |
| 7573.7 | 17.5° | 7708.3 | 7735.2 | 7825.7 | 7899.2 | 7926.1 | 7955.4 | 7926.1 | 7938.3 | 7847.8 |
| 7422.0 | 20°   | 7507.6 | 7608.0 | 8043.5 | 8178.1 | 8234.4 | 8261.3 | 8212.4 | 8227.1 | 8136.5 |
| 7236.0 | 22.5° | 7326.5 | 7456.2 | 7842.9 | 8263.8 | 8437.5 | 8491.3 | 8474.2 | 8471.8 | 8437.5 |
| 6868.9 | 25°   | 7059.8 | 7321.6 | 7495.4 | 7940.8 | 8486.5 | 8584.3 | 8594.1 | 8591.7 | 8540.3 |
| 6643.8 | 27.5° | 6731.9 | 6790.6 | 7240.9 | 7512.5 | 8143.9 | 8515.8 | 8501.1 | 8430.2 | 8361.6 |
| 6176.4 | 30°   | 6313.4 | 6580.2 | 6783.3 | 7216.4 | 7700.9 | 8305.4 | 8305.4 | 8251.5 | 8180.6 |
| 6010.0 | 32.5° | 6100.6 | 6445.6 | 6634.0 | 6790.6 | 7204.2 | 8070.4 | 8168.3 | 8112.0 | 8055.8 |
| 5880.3 | 35°   | 5988.0 | 6039.4 | 6479.9 | 6621.8 | 6971.7 | 7617.7 | 8014.2 | 7957.9 | 7916.3 |
| 5535.3 | 37.5° | 5740.8 | 5860.7 | 6066.3 | 6445.6 | 6553.3 | 7248.2 | 7808.6 | 7779.2 | 7730.3 |
| 5087.5 | 40°   | 5190.2 | 5510.8 | 5826.5 | 6186.2 | 6298.8 | 6773.5 | 7559.0 | 7571.2 | 7505.2 |
| 4610.3 | 42.5° | 4864.8 | 5082.6 | 5576.9 | 5819.1 | 6122.6 | 6467.6 | 7316.7 | 7336.3 | 7289.8 |
| 4368.0 | 45°   | 4483.0 | 4725.3 | 5072.8 | 5513.3 | 5926.8 | 6046.7 | 6888.5 | 7094.1 | 7054.9 |
| 3886.0 | 47.5° | 4133.1 | 4328.9 | 4754.7 | 5200.0 | 5657.6 | 5640.5 | 6396.6 | 6783.3 | 6729.5 |
| 3516.4 | 50°   | 3636.4 | 3978.9 | 4179.6 | 4588.3 | 5271.0 | 5317.5 | 5873.0 | 6418.7 | 6374.6 |
| 2987.9 | 52.5° | 3066.2 | 3496.9 | 3881.1 | 4255.5 | 4879.5 | 4989.6 | 5386.0 | 6046.7 | 6017.4 |
| 2283.1 | 55°   | 2679.5 | 2992.8 | 3425.9 | 3726.9 | 4404.7 | 4698.4 | 5021.4 | 5691.9 | 5677.2 |
| 1876.9 | 57.5° | 1906.3 | 2510.7 | 2868.0 | 3288.9 | 3646.1 | 4177.2 | 4417.0 | 4970.0 | 4833.0 |
| 1040.0 | 60°   | 1292.1 | 1575.9 | 2011.5 | 2464.2 | 2704.0 | 3235.0 | 3457.7 | 3900.6 | 3863.9 |
| 621.6  | 62.5° | 682.7  | 944.6  | 1255.3 | 1482.9 | 1656.7 | 2173.0 | 2266.0 | 2743.2 | 2730.9 |
| 249.6  | 65°   | 301.0  | 398.9  | 680.3  | 797.7  | 976.4  | 1216.2 | 1296.9 | 1468.2 | 1426.6 |
| 122.4  | 67.5° | 156.6  | 237.4  | 384.2  | 472.3  | 594.6  | 685.2  | 751.3  | 805.1  | 839.3  |
| 80.8   | 70°   | 95.4   | 173.7  | 237.4  | 327.9  | 408.7  | 482.1  | 533.5  | 606.9  | 650.9  |
| 41.6   | 72.5° | 71.0   | 110.1  | 164.0  | 252.0  | 296.1  | 381.7  | 433.1  | 487.0  | 526.1  |
| 34.3   | 75°   | 39.2   | 73.4   | 132.1  | 198.2  | 237.4  | 310.8  | 357.3  | 394.0  | 406.2  |
| 19.6   | 77.5° | 24.5   | 56.3   | 110.1  | 154.2  | 186.0  | 252.0  | 239.8  | 274.1  | 303.4  |
| 14.7   | 80°   | 17.1   | 41.6   | 85.6   | 127.2  | 129.7  | 161.5  | 190.9  | 220.2  | 239.8  |
| 9.8    | 82.5° | 12.2   | 34.3   | 63.6   | 97.9   | 85.6   | 124.8  | 149.3  | 171.3  | 124.8  |
| 7.3    | 85°   | 9.8    | 24.5   | 31.8   | 58.7   | 48.9   | 88.1   | 75.9   | 73.4   | 48.9   |
| 4.9    | 87.5° | 7.3    | 12.2   | 22.0   | 26.9   | 19.6   | 19.6   | 24.5   | 29.4   | 24.5   |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |





| 180°   |
|--------|
| 7184.6 |
| 7006.0 |
| 7054.9 |
| 7096.5 |
| 7157.7 |
| 7282.5 |
| 7492.9 |
| 7769.5 |
| 8072.9 |
| 8327.4 |
| 8462.0 |
| 8307.8 |
| 8153.6 |
| 8009.3 |
| 7857.6 |
| 7681.4 |
| 7490.5 |
| 7284.9 |
| 7059.8 |
| 6768.6 |
| 6382.0 |
| 6036.9 |
| 5694.3 |
| 4818.3 |
| 3866.4 |
| 2733.4 |
| 1409.5 |
| 839.3  |
| 653.4  |
| 533.5  |
| 398.9  |
| 308.3  |
| 242.3  |
| 90.5   |
| 48.9   |
| 24.5   |
| 0.0    |

(END OF REPORT)