

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: P637826

Luminaire Tested: **IFLD-M-SA4B-727-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637826  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-727-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (64) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16105.9 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1

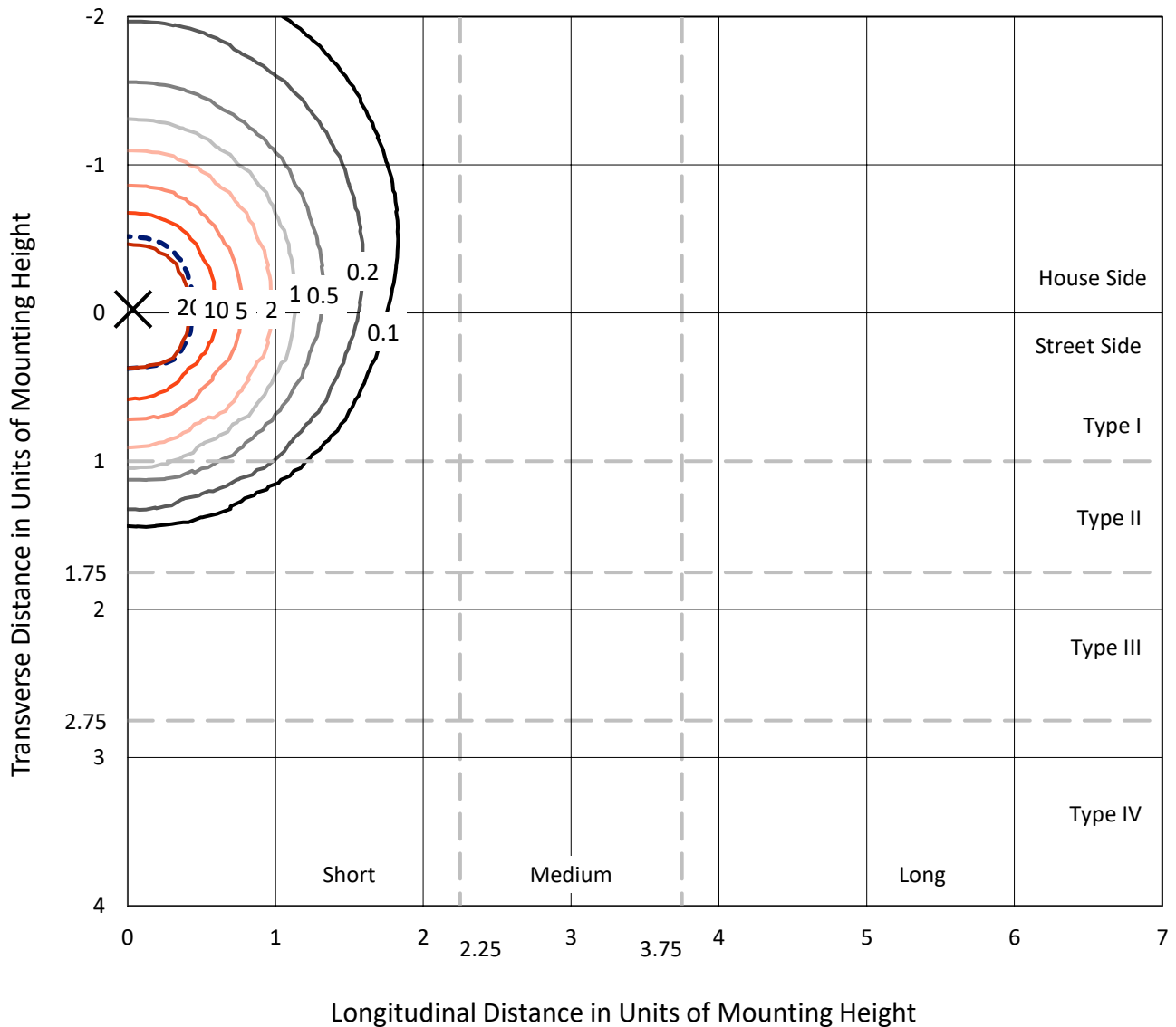
Input Watts (W): 166.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

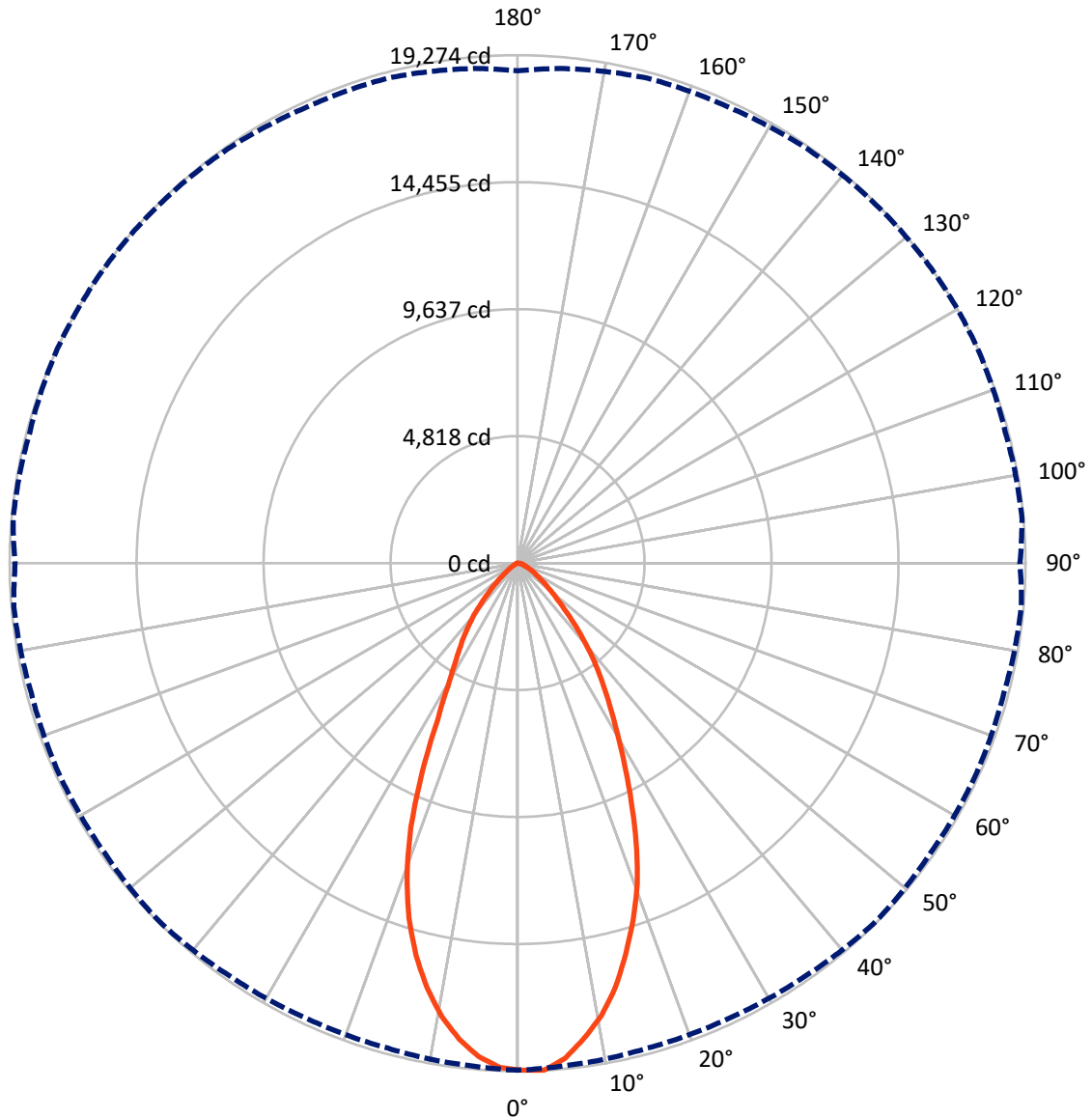
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 48.1 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    | 9139.1   | 0.0    | 9139.1  |
|                    | % Fixture | 56.7     | 0.0    | 56.7    |
| <b>Street Side</b> | Lumens    | 6966.8   | 0.0    | 6966.8  |
|                    | % Fixture | 43.3     | 0.0    | 43.3    |
| <b>Total</b>       | Lumens    | 16105.9  | 0.0    | 16105.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1747.3  | 10.8      |
| 10°-20°   | 4165.2  | 25.9      |
| 20°-30°   | 4242.2  | 26.3      |
| 30°-40°   | 3163.4  | 19.6      |
| 40°-50°   | 1652.6  | 10.3      |
| 50°-60°   | 695.1   | 4.3       |
| 60°-70°   | 283.9   | 1.8       |
| 70°-80°   | 119.5   | 0.7       |
| 80°-90°   | 36.8    | 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°    | 16105.9 | 100.0     |
| 0°-180°   | 16105.9 | 100.0     |



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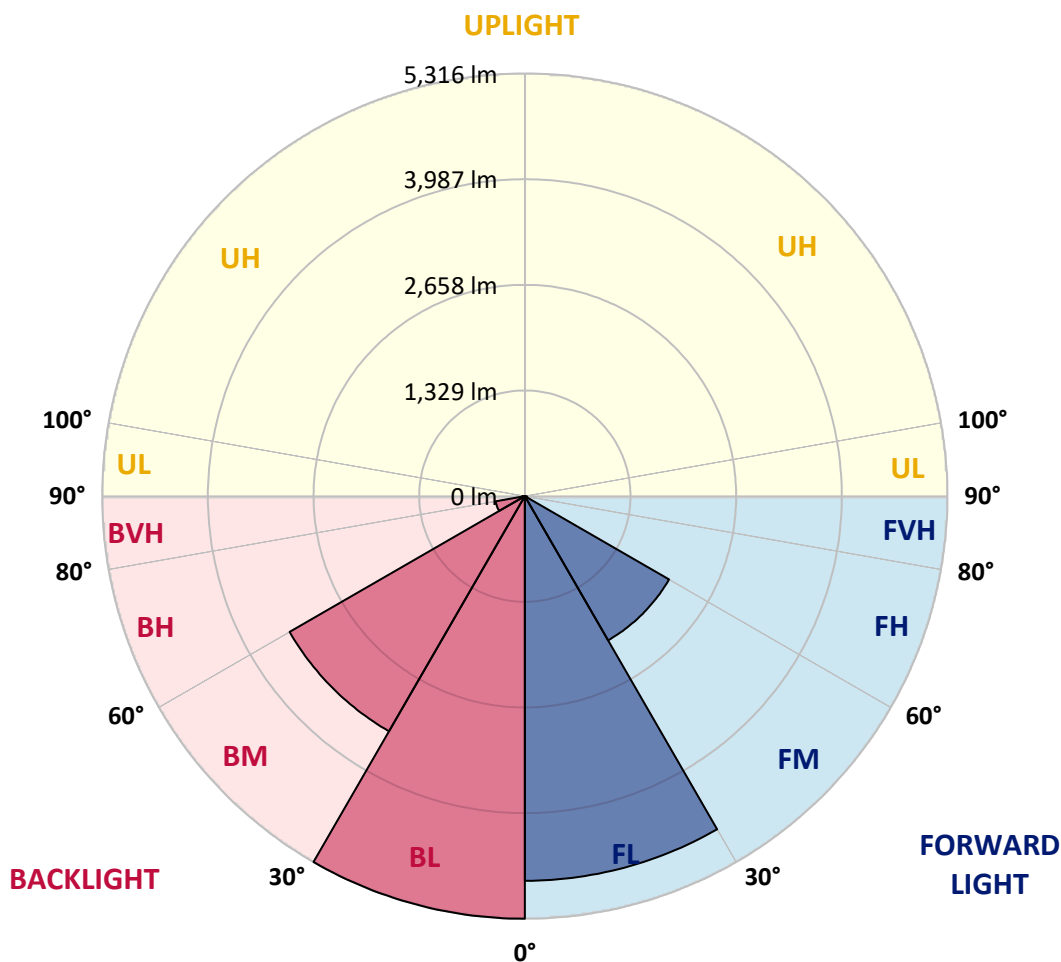
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 4838.4 | 30.0      |                         |      |        |
| FM (30°-60°)   | 2094.6 | 13.0      |                         |      |        |
| FH (60°-80°)   | 30.3   | 0.2       |                         |      | G0/660 |
| FVH (80°-90°)  | 3.4    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 5316.2 | 33.0      | B5                      |      |        |
| BM (30°-60°)   | 3416.5 | 21.2      | B3/5000                 |      |        |
| BH (60°-80°)   | 373.0  | 2.3       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 33.4   | 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-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 19242.6 | 19242.6 | 19242.6 | 19242.6 | 19242.6 | 19242.6 | 19242.6 | 19242.6 | 19242.6 | 19242.6 |
| 2.5°  | 19244.7 | 19166.1 | 19054.4 | 19044.0 | 19101.9 | 19228.1 | 19147.5 | 19151.6 | 19101.9 | 19186.8 |
| 5°    | 18942.6 | 18868.2 | 18791.6 | 18690.2 | 18775.1 | 18828.9 | 18787.5 | 18742.0 | 18677.8 | 18760.6 |
| 7.5°  | 18371.6 | 18330.3 | 18216.5 | 18171.0 | 18222.7 | 18282.7 | 18193.7 | 18181.3 | 18092.3 | 18199.9 |
| 10°   | 17498.6 | 17482.0 | 17370.3 | 17343.4 | 17388.9 | 17479.9 | 17440.6 | 17432.4 | 17376.5 | 17366.2 |
| 12.5° | 16592.4 | 16528.3 | 16389.6 | 16381.4 | 16449.6 | 16586.2 | 16480.7 | 16379.3 | 16410.3 | 16437.2 |
| 15°   | 14258.7 | 14190.4 | 14533.9 | 15073.8 | 15357.3 | 15346.9 | 15378.0 | 15255.9 | 15218.7 | 15231.1 |
| 17.5° | 11335.4 | 11219.5 | 11343.7 | 12179.5 | 13526.3 | 14308.4 | 14093.2 | 13830.4 | 13689.8 | 13596.7 |
| 20°   | 9783.7  | 9789.9  | 9767.2  | 9982.3  | 10822.3 | 12605.7 | 12553.9 | 12047.1 | 11862.9 | 11786.4 |
| 22.5° | 8840.3  | 8805.1  | 8755.5  | 8823.8  | 9049.3  | 10096.1 | 10797.5 | 10332.0 | 10267.8 | 10183.0 |
| 25°   | 7915.5  | 7915.5  | 7855.5  | 7923.8  | 7987.9  | 8002.4  | 8705.8  | 8896.2  | 8772.0  | 8772.0  |
| 27.5° | 7114.9  | 7073.5  | 7046.6  | 7077.6  | 6992.8  | 6585.2  | 6674.2  | 7648.6  | 7563.8  | 7512.1  |
| 30°   | 6320.4  | 6308.0  | 6262.5  | 6303.9  | 5989.4  | 5530.1  | 5343.9  | 6454.9  | 6543.9  | 6525.2  |
| 32.5° | 5217.7  | 5267.4  | 5470.1  | 5534.2  | 4996.3  | 4626.0  | 4448.1  | 5358.4  | 5714.2  | 5699.8  |
| 35°   | 3546.1  | 3587.4  | 3819.1  | 4584.6  | 4141.9  | 3877.1  | 3825.4  | 4261.9  | 4847.4  | 4903.2  |
| 37.5° | 2824.0  | 2817.8  | 2884.0  | 3020.6  | 3328.8  | 3264.7  | 3250.2  | 3364.0  | 3953.6  | 3978.5  |
| 40°   | 2327.5  | 2319.2  | 2317.1  | 2205.4  | 2128.9  | 2714.4  | 2675.1  | 2606.8  | 3117.8  | 3167.5  |
| 42.5° | 1876.5  | 1884.7  | 1891.0  | 1646.8  | 1535.1  | 2093.7  | 2070.9  | 2000.6  | 2445.4  | 2503.3  |
| 45°   | 1473.0  | 1471.0  | 1483.4  | 1226.8  | 1195.8  | 1338.6  | 1547.5  | 1491.7  | 1845.4  | 1907.5  |
| 47.5° | 763.4   | 790.3   | 957.9   | 949.6   | 964.1   | 949.6   | 1171.0  | 1156.5  | 1388.2  | 1487.5  |
| 50°   | 513.1   | 521.4   | 535.8   | 537.9   | 759.3   | 699.3   | 794.4   | 900.0   | 972.4   | 1125.5  |
| 52.5° | 397.2   | 403.4   | 366.2   | 343.4   | 465.5   | 517.2   | 521.4   | 622.7   | 678.6   | 833.8   |
| 55°   | 221.4   | 248.3   | 266.9   | 269.0   | 256.5   | 382.7   | 380.7   | 461.4   | 504.8   | 608.3   |
| 57.5° | 29.0    | 35.2    | 53.8    | 173.8   | 171.7   | 213.1   | 266.9   | 335.2   | 360.0   | 444.8   |
| 60°   | 2.1     | 4.1     | 6.2     | 26.9    | 113.8   | 124.1   | 182.1   | 209.0   | 250.3   | 312.4   |
| 62.5° | 0.0     | 0.0     | 2.1     | 6.2     | 22.8    | 72.4    | 95.2    | 109.7   | 146.9   | 204.8   |
| 65°   | 0.0     | 0.0     | 2.1     | 4.1     | 8.3     | 26.9    | 37.2    | 60.0    | 86.9    | 126.2   |
| 67.5° | 0.0     | 0.0     | 2.1     | 4.1     | 6.2     | 10.3    | 16.6    | 26.9    | 45.5    | 76.5    |
| 70°   | 0.0     | 0.0     | 2.1     | 4.1     | 6.2     | 8.3     | 12.4    | 16.6    | 24.8    | 41.4    |
| 72.5° | 0.0     | 0.0     | 2.1     | 2.1     | 4.1     | 10.3    | 10.3    | 12.4    | 16.6    | 22.8    |
| 75°   | 0.0     | 0.0     | 2.1     | 4.1     | 6.2     | 10.3    | 10.3    | 10.3    | 12.4    | 14.5    |
| 77.5° | 0.0     | 0.0     | 2.1     | 4.1     | 6.2     | 10.3    | 8.3     | 10.3    | 10.3    | 10.3    |
| 80°   | 0.0     | 0.0     | 2.1     | 4.1     | 6.2     | 10.3    | 12.4    | 10.3    | 8.3     | 8.3     |
| 82.5° | 0.0     | 0.0     | 2.1     | 6.2     | 6.2     | 14.5    | 14.5    | 14.5    | 6.2     | 6.2     |
| 85°   | 0.0     | 0.0     | 4.1     | 6.2     | 10.3    | 16.6    | 16.6    | 12.4    | 6.2     | 4.1     |
| 87.5° | 0.0     | 0.0     | 2.1     | 4.1     | 4.1     | 8.3     | 12.4    | 10.3    | 4.1     | 2.1     |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 19242.6 | 0°    | 19242.6 | 19242.6 | 19242.6 | 19242.6 | 19242.6 | 19242.6 | 19242.6 | 19242.6 | 19242.6 |
| 19062.6 | 2.5°  | 19215.7 | 19164.0 | 19261.3 | 19273.7 | 19232.3 | 19180.6 | 19060.6 | 19050.2 | 18841.3 |
| 18640.6 | 5°    | 18851.6 | 18766.8 | 18828.9 | 18870.2 | 18855.8 | 18799.9 | 18750.2 | 18704.7 | 18516.5 |
| 17955.8 | 7.5°  | 18173.0 | 18142.0 | 18171.0 | 18202.0 | 18262.0 | 18202.0 | 18181.3 | 18133.7 | 17947.5 |
| 17281.3 | 10°   | 17420.0 | 17362.0 | 17471.7 | 17457.2 | 17440.6 | 17424.1 | 17337.2 | 17345.5 | 17126.2 |
| 16362.8 | 12.5° | 16495.2 | 16397.9 | 16503.4 | 16515.9 | 16503.4 | 16445.5 | 16348.3 | 16389.6 | 16189.0 |
| 15121.4 | 15°   | 15251.8 | 15241.4 | 15318.0 | 15367.6 | 15402.8 | 15340.7 | 15307.6 | 15328.3 | 15208.3 |
| 13524.3 | 17.5° | 13724.9 | 13859.4 | 14109.7 | 14194.6 | 14196.6 | 14260.8 | 14242.2 | 14217.3 | 14128.4 |
| 11755.4 | 20°   | 11929.1 | 12187.8 | 12572.6 | 12967.7 | 13081.5 | 13027.7 | 13002.9 | 13048.4 | 12916.0 |
| 10094.1 | 22.5° | 10272.0 | 10493.3 | 10940.2 | 11517.4 | 11850.5 | 11883.6 | 11877.4 | 11838.1 | 11786.4 |
| 8763.8  | 25°   | 8865.1  | 9061.7  | 9489.9  | 10017.5 | 10656.8 | 10752.0 | 10756.1 | 10743.7 | 10698.2 |
| 7557.6  | 27.5° | 7677.6  | 7915.5  | 8151.4  | 8623.1  | 9303.7  | 9696.8  | 9647.2  | 9632.7  | 9616.1  |
| 6539.7  | 30°   | 6601.8  | 6901.8  | 7123.1  | 7416.9  | 8027.2  | 8558.9  | 8610.7  | 8585.8  | 8546.5  |
| 5697.7  | 32.5° | 5749.4  | 5927.3  | 6208.7  | 6407.3  | 6845.9  | 7448.0  | 7646.6  | 7628.0  | 7592.8  |
| 4938.4  | 35°   | 5008.8  | 5079.1  | 5300.5  | 5521.8  | 5813.5  | 6397.0  | 6690.8  | 6649.4  | 6643.2  |
| 4024.0  | 37.5° | 4125.3  | 4361.2  | 4483.3  | 4706.7  | 4911.5  | 5364.6  | 5770.1  | 5751.5  | 5753.5  |
| 3235.7  | 40°   | 3330.9  | 3467.4  | 3709.5  | 3897.8  | 4086.0  | 4417.1  | 4868.1  | 4880.5  | 4876.3  |
| 2505.4  | 42.5° | 2557.1  | 2689.5  | 2944.0  | 3148.8  | 3316.4  | 3521.2  | 3951.6  | 3966.0  | 3984.7  |
| 1951.0  | 45°   | 1996.5  | 2081.3  | 2267.5  | 2480.6  | 2658.5  | 2782.6  | 3109.5  | 3202.6  | 3204.7  |
| 1512.3  | 47.5° | 1549.6  | 1646.8  | 1779.2  | 1984.1  | 2157.8  | 2246.8  | 2484.7  | 2610.9  | 2604.7  |
| 1160.6  | 50°   | 1216.5  | 1305.5  | 1413.0  | 1574.4  | 1762.7  | 1833.0  | 2008.9  | 2133.0  | 2126.8  |
| 875.1   | 52.5° | 931.0   | 1044.8  | 1140.0  | 1264.1  | 1448.2  | 1508.2  | 1634.4  | 1777.2  | 1756.5  |
| 641.4   | 55°   | 705.5   | 821.3   | 910.3   | 1013.8  | 1181.3  | 1257.9  | 1344.8  | 1458.6  | 1462.7  |
| 496.5   | 57.5° | 531.7   | 651.7   | 732.4   | 837.9   | 964.1   | 1048.9  | 1115.1  | 1237.2  | 1235.1  |
| 339.3   | 60°   | 380.7   | 484.1   | 581.4   | 691.0   | 788.2   | 885.5   | 931.0   | 1046.9  | 1051.0  |
| 240.0   | 62.5° | 275.2   | 372.4   | 465.5   | 560.7   | 647.6   | 742.7   | 784.1   | 875.1   | 887.5   |
| 157.2   | 65°   | 192.4   | 260.7   | 368.3   | 440.7   | 537.9   | 608.3   | 662.0   | 740.7   | 755.1   |
| 93.1    | 67.5° | 124.1   | 188.3   | 291.7   | 355.8   | 444.8   | 504.8   | 560.7   | 622.7   | 641.4   |
| 60.0    | 70°   | 74.5    | 142.8   | 217.2   | 285.5   | 366.2   | 420.0   | 473.8   | 527.6   | 537.9   |
| 29.0    | 72.5° | 47.6    | 99.3    | 157.2   | 231.7   | 293.8   | 351.7   | 399.3   | 438.6   | 407.6   |
| 18.6    | 75°   | 26.9    | 68.3    | 124.1   | 182.1   | 237.9   | 293.8   | 333.1   | 353.8   | 283.4   |
| 12.4    | 77.5° | 16.6    | 49.7    | 101.4   | 146.9   | 184.1   | 235.9   | 260.7   | 273.1   | 202.8   |
| 8.3     | 80°   | 10.3    | 37.2    | 84.8    | 120.0   | 120.0   | 173.8   | 202.8   | 213.1   | 146.9   |
| 6.2     | 82.5° | 8.3     | 26.9    | 66.2    | 91.0    | 80.7    | 130.3   | 159.3   | 161.4   | 103.4   |
| 4.1     | 85°   | 6.2     | 20.7    | 41.4    | 60.0    | 55.9    | 91.0    | 93.1    | 103.4   | 68.3    |
| 4.1     | 87.5° | 4.1     | 12.4    | 24.8    | 35.2    | 31.0    | 43.4    | 49.7    | 55.9    | 37.2    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |





| 180°    |
|---------|
| 19242.6 |
| 18677.8 |
| 18365.4 |
| 17908.2 |
| 17051.7 |
| 16131.0 |
| 15063.5 |
| 13996.0 |
| 12820.8 |
| 11687.1 |
| 10545.1 |
| 9518.9  |
| 8496.9  |
| 7499.7  |
| 6574.9  |
| 5687.3  |
| 4803.9  |
| 3922.6  |
| 3150.9  |
| 2582.0  |
| 2126.8  |
| 1758.5  |
| 1462.7  |
| 1231.0  |
| 1040.6  |
| 883.4   |
| 751.0   |
| 639.3   |
| 529.6   |
| 378.6   |
| 269.0   |
| 190.3   |
| 136.5   |
| 95.2    |
| 62.1    |
| 33.1    |
| 0.0     |

(END OF REPORT)