

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: P637397

Luminaire Tested: **IFLD-L-SA7C-740-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637397  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-740-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42756.3 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

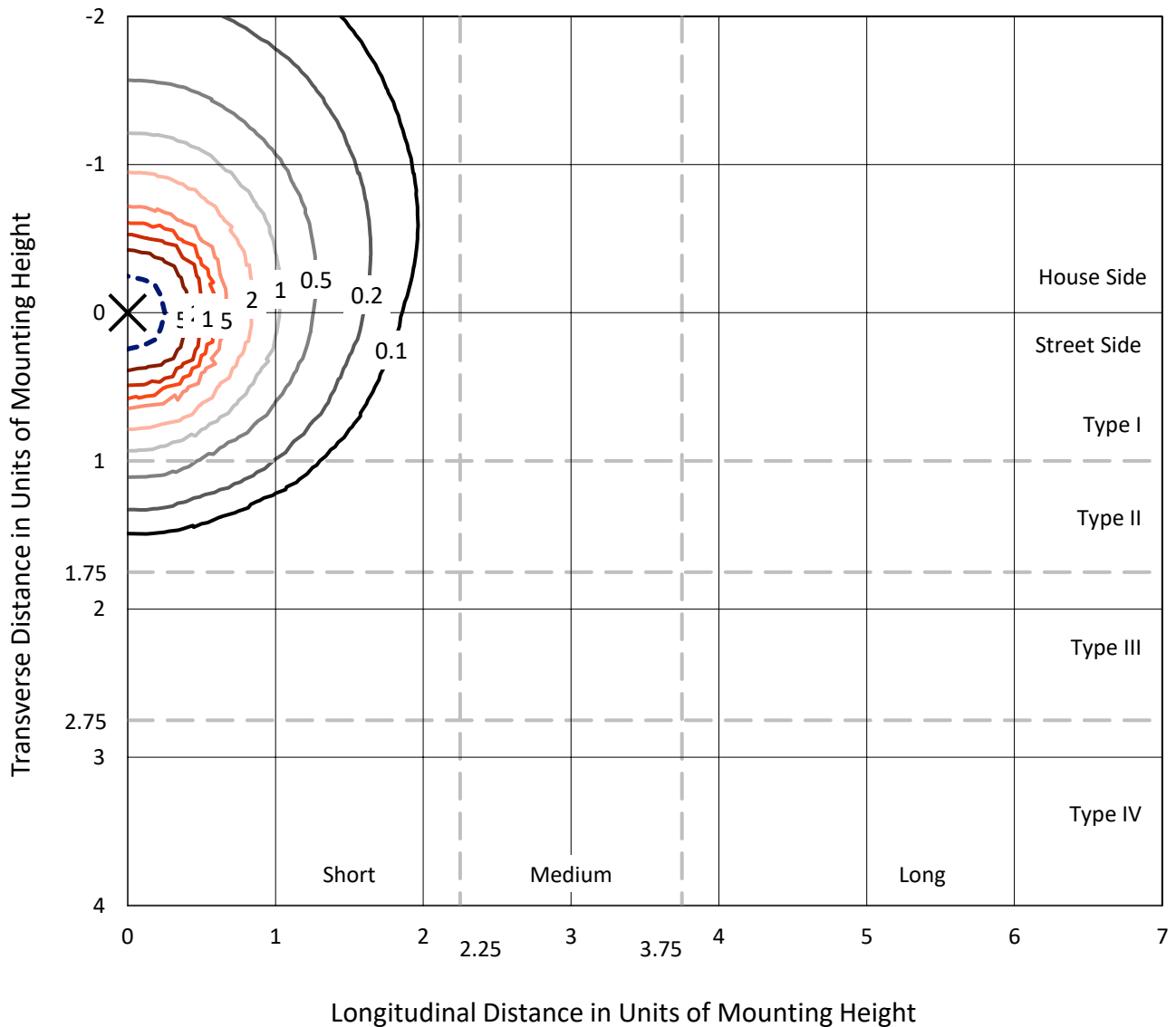
Input Watts (W): 369  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

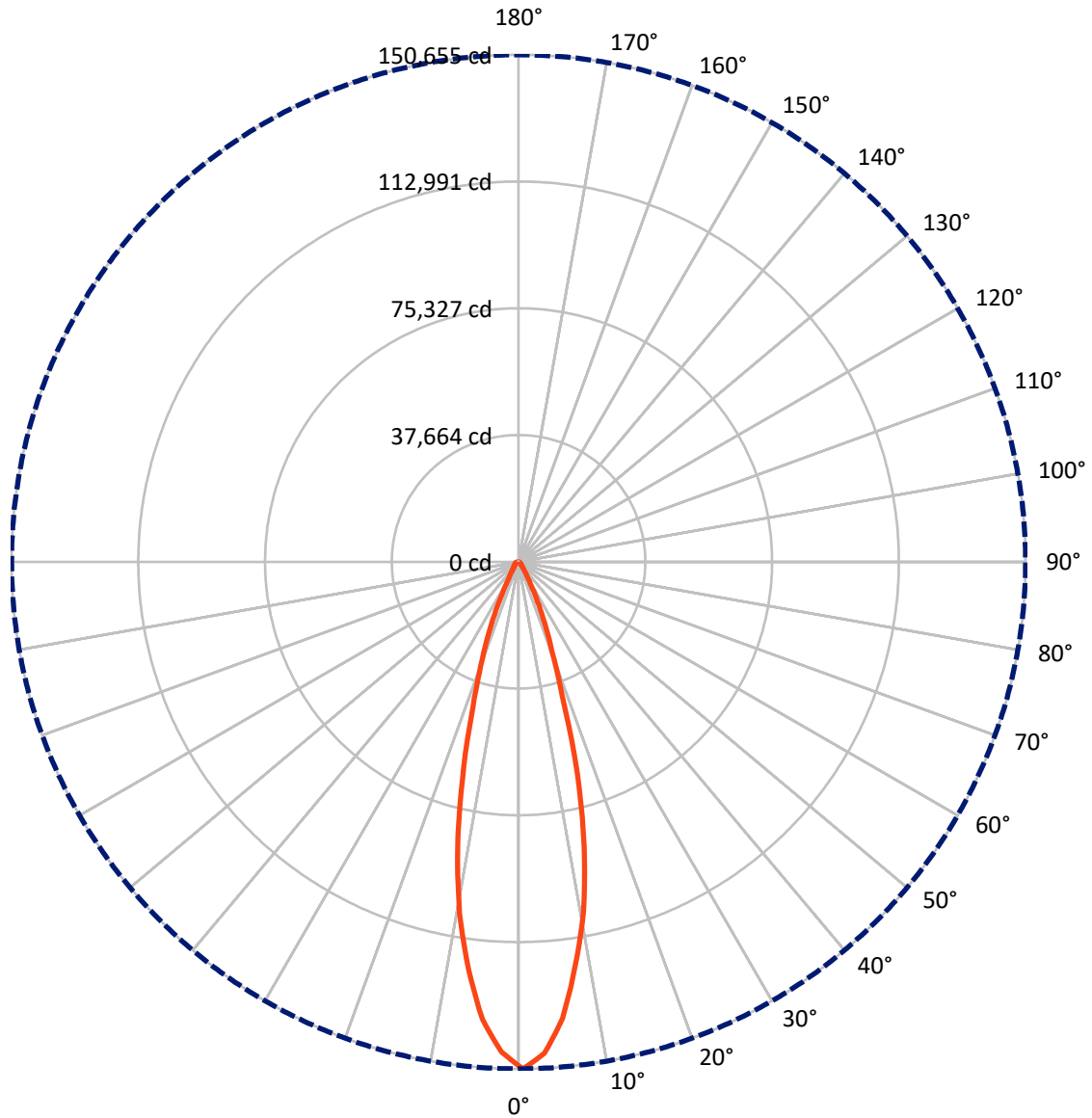
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 376.6 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    | 22544.0  | 0.0    | 22544.0 |
|                    | % Fixture | 52.7     | 0.0    | 52.7    |
| <b>Street Side</b> | Lumens    | 20212.3  | 0.0    | 20212.3 |
|                    | % Fixture | 47.3     | 0.0    | 47.3    |
| <b>Total</b>       | Lumens    | 42756.3  | 0.0    | 42756.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 12159.2 | 28.4      |
| 10°-20°   | 18415.0 | 43.1      |
| 20°-30°   | 7771.2  | 18.2      |
| 30°-40°   | 2026.8  | 4.7       |
| 40°-50°   | 1025.1  | 2.4       |
| 50°-60°   | 670.1   | 1.6       |
| 60°-70°   | 401.4   | 0.9       |
| 70°-80°   | 211.2   | 0.5       |
| 80°-90°   | 76.3    | 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°    | 42756.3 | 100.0     |
| 0°-180°   | 42756.3 | 100.0     |

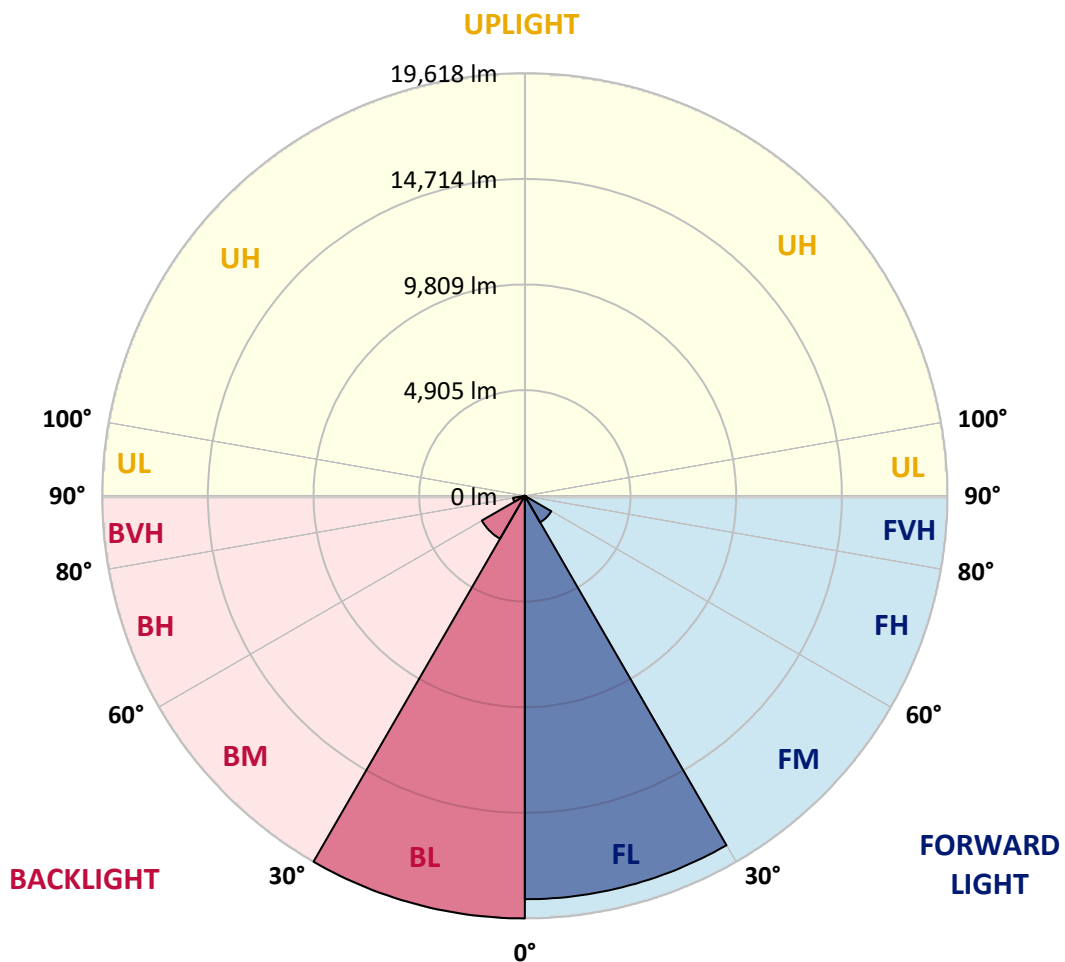


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 18727.0 | 43.8      |                         |      |        |
| FM (30°-60°)   | 1418.2  | 3.3       |                         |      |        |
| FH (60°-80°)   | 57.8    | 0.1       |                         |      | G0/660 |
| FVH (80°-90°)  | 9.3     | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 19618.4 | 45.9      | B5                      |      |        |
| BM (30°-60°)   | 2303.8  | 5.4       | B2/2500                 |      |        |
| BH (60°-80°)   | 554.8   | 1.3       | B2/1000                 |      | G0/660 |
| BVH (80°-90°)  | 67.0    | 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 V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°       | 5°       | 15°      | 25°      | 35°      | 45°      | 55°      | 65°      | 75°      | 85°      |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0°    | 150654.9 | 150654.9 | 150654.9 | 150654.9 | 150654.9 | 150654.9 | 150654.9 | 150654.9 | 150654.9 | 150654.9 |
| 2.5°  | 146266.3 | 146347.9 | 146045.4 | 146698.4 | 146189.4 | 147553.1 | 146876.1 | 147932.4 | 147577.1 | 148167.7 |
| 5°    | 136278.9 | 136144.5 | 136058.1 | 137071.2 | 136778.3 | 138242.8 | 137306.5 | 136999.2 | 137949.9 | 137777.0 |
| 7.5°  | 121197.1 | 121552.4 | 121350.8 | 121614.9 | 121763.7 | 123434.7 | 123962.8 | 123549.9 | 123564.3 | 123804.4 |
| 10°   | 105736.0 | 105212.6 | 104468.3 | 104962.9 | 106009.7 | 106739.5 | 106446.6 | 107051.6 | 106917.2 | 107488.6 |
| 12.5° | 86712.0  | 87125.0  | 86707.2  | 86265.5  | 88094.9  | 87893.2  | 88402.2  | 88733.5  | 87902.8  | 89751.5  |
| 15°   | 65316.1  | 65532.2  | 66041.2  | 66007.6  | 67414.4  | 67697.7  | 67630.5  | 67981.0  | 67332.8  | 67640.1  |
| 17.5° | 41961.2  | 42691.0  | 44059.5  | 46373.8  | 48976.3  | 49278.8  | 49202.0  | 48913.9  | 48601.8  | 48256.1  |
| 20°   | 28185.4  | 28108.5  | 28603.1  | 29280.1  | 34667.5  | 36093.6  | 36050.4  | 35147.7  | 33841.7  | 33592.0  |
| 22.5° | 19744.2  | 19888.2  | 19821.0  | 20493.2  | 21607.2  | 25539.7  | 25054.7  | 24137.6  | 23710.3  | 23431.8  |
| 25°   | 12988.3  | 12935.5  | 13271.6  | 13473.3  | 14428.8  | 14909.0  | 16608.7  | 16267.8  | 15610.0  | 15682.0  |
| 27.5° | 7917.8   | 7985.1   | 8109.9   | 8282.8   | 8959.8   | 8806.1   | 9776.1   | 9905.7   | 9694.4   | 9468.7   |
| 30°   | 4859.2   | 4907.2   | 5008.1   | 5132.9   | 5368.2   | 5200.1   | 5469.0   | 5934.8   | 5857.9   | 5699.5   |
| 32.5° | 3298.7   | 3303.5   | 3375.5   | 3423.5   | 3394.7   | 3236.3   | 3322.7   | 3764.5   | 3774.1   | 3759.7   |
| 35°   | 2372.0   | 2372.0   | 2439.2   | 2477.6   | 2396.0   | 2266.4   | 2280.8   | 2554.4   | 2674.5   | 2698.5   |
| 37.5° | 1637.3   | 1642.1   | 1757.4   | 1872.6   | 1781.4   | 1747.8   | 1690.2   | 1872.6   | 2064.7   | 2093.5   |
| 40°   | 1243.6   | 1238.8   | 1296.4   | 1382.9   | 1392.5   | 1330.0   | 1349.2   | 1464.5   | 1661.4   | 1685.4   |
| 42.5° | 1008.3   | 1013.1   | 1041.9   | 1032.3   | 1037.1   | 1118.8   | 1147.6   | 1200.4   | 1382.9   | 1426.1   |
| 45°   | 849.9    | 854.7    | 869.1    | 821.1    | 801.9    | 926.7    | 965.1    | 993.9    | 1147.6   | 1200.4   |
| 47.5° | 701.0    | 710.6    | 725.0    | 672.2    | 662.6    | 744.2    | 811.5    | 840.3    | 974.7    | 1032.3   |
| 50°   | 504.2    | 513.8    | 566.6    | 537.8    | 566.6    | 585.8    | 677.0    | 720.2    | 811.5    | 888.3    |
| 52.5° | 364.9    | 374.5    | 388.9    | 393.7    | 465.8    | 475.4    | 542.6    | 609.8    | 653.0    | 739.4    |
| 55°   | 288.1    | 297.7    | 288.1    | 278.5    | 340.9    | 393.7    | 417.7    | 489.8    | 523.4    | 624.2    |
| 57.5° | 163.3    | 172.9    | 187.3    | 216.1    | 225.7    | 302.5    | 326.5    | 388.9    | 417.7    | 513.8    |
| 60°   | 28.8     | 33.6     | 52.8     | 129.6    | 158.5    | 192.1    | 244.9    | 297.7    | 336.1    | 403.3    |
| 62.5° | 4.8      | 4.8      | 9.6      | 28.8     | 91.2     | 134.4    | 177.7    | 211.3    | 244.9    | 307.3    |
| 65°   | 0.0      | 0.0      | 4.8      | 9.6      | 24.0     | 76.8     | 96.0     | 124.8    | 168.1    | 220.9    |
| 67.5° | 0.0      | 0.0      | 4.8      | 9.6      | 14.4     | 28.8     | 43.2     | 76.8     | 96.0     | 148.8    |
| 70°   | 0.0      | 0.0      | 4.8      | 9.6      | 14.4     | 19.2     | 24.0     | 33.6     | 57.6     | 91.2     |
| 72.5° | 0.0      | 0.0      | 4.8      | 9.6      | 14.4     | 19.2     | 24.0     | 28.8     | 28.8     | 57.6     |
| 75°   | 0.0      | 0.0      | 4.8      | 9.6      | 14.4     | 24.0     | 28.8     | 28.8     | 24.0     | 24.0     |
| 77.5° | 0.0      | 0.0      | 4.8      | 9.6      | 19.2     | 28.8     | 33.6     | 28.8     | 19.2     | 19.2     |
| 80°   | 0.0      | 0.0      | 9.6      | 14.4     | 24.0     | 33.6     | 43.2     | 33.6     | 19.2     | 9.6      |
| 82.5° | 0.0      | 0.0      | 9.6      | 19.2     | 24.0     | 38.4     | 52.8     | 43.2     | 19.2     | 9.6      |
| 85°   | 0.0      | 0.0      | 4.8      | 14.4     | 28.8     | 38.4     | 52.8     | 38.4     | 19.2     | 4.8      |
| 87.5° | 0.0      | 0.0      | 4.8      | 4.8      | 9.6      | 14.4     | 28.8     | 24.0     | 9.6      | 4.8      |
| 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°     |
|----------|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 150654.9 | 0°    | 150654.9 | 150654.9 | 150654.9 | 150654.9 | 150654.9 | 150654.9 | 150654.9 | 150654.9 | 150654.9 |
| 147048.9 | 2.5°  | 147894.0 | 148662.2 | 148820.7 | 148609.4 | 148916.7 | 148364.5 | 147942.0 | 146847.2 | 146189.4 |
| 137724.2 | 5°    | 138612.5 | 138497.3 | 139299.1 | 139563.2 | 139529.6 | 139107.1 | 138516.5 | 137853.9 | 137210.4 |
| 123338.6 | 7.5°  | 124106.9 | 124255.7 | 124985.6 | 125451.3 | 125216.1 | 124687.9 | 124279.7 | 123780.4 | 123348.2 |
| 107695.0 | 10°   | 108679.3 | 107656.6 | 108564.1 | 108564.1 | 109193.1 | 107699.8 | 107839.1 | 106581.1 | 106638.7 |
| 89717.8  | 12.5° | 90025.1  | 90394.9  | 90543.7  | 90971.1  | 90236.4  | 89444.2  | 88474.2  | 88282.2  | 87682.0  |
| 67054.3  | 15°   | 68019.4  | 69075.8  | 68168.3  | 69719.2  | 68970.1  | 68144.3  | 67995.4  | 66506.9  | 66977.5  |
| 48635.4  | 17.5° | 48395.3  | 49562.1  | 49927.0  | 50815.3  | 50133.5  | 49643.7  | 49024.3  | 48573.0  | 48539.3  |
| 34048.1  | 20°   | 34317.0  | 35488.6  | 35757.5  | 36823.4  | 36746.6  | 36593.0  | 36069.6  | 35498.2  | 34878.8  |
| 23177.3  | 22.5° | 23527.8  | 24483.3  | 25376.4  | 26812.1  | 26788.1  | 26336.8  | 26283.9  | 25477.3  | 25491.7  |
| 15658.0  | 25°   | 15821.3  | 16517.5  | 16728.8  | 18198.1  | 18361.3  | 18313.3  | 18039.6  | 17290.6  | 17573.8  |
| 9564.8   | 27.5° | 9574.4   | 10184.2  | 10899.6  | 11418.2  | 11908.0  | 11831.1  | 11557.4  | 11139.7  | 10957.2  |
| 5747.5   | 30°   | 5901.2   | 6174.9   | 6438.9   | 7063.1   | 7356.0   | 7509.7   | 7380.1   | 6991.1   | 7019.9   |
| 3783.7   | 32.5° | 3865.3   | 4095.8   | 4287.8   | 4681.6   | 4835.2   | 5118.5   | 5065.7   | 4984.1   | 4888.0   |
| 2722.5   | 35°   | 2818.5   | 2986.6   | 3116.2   | 3298.7   | 3495.6   | 3735.6   | 3774.1   | 3740.4   | 3702.0   |
| 2103.1   | 37.5° | 2151.1   | 2324.0   | 2472.8   | 2549.6   | 2703.3   | 2890.6   | 2996.2   | 2991.4   | 2962.6   |
| 1714.2   | 40°   | 1747.8   | 1877.4   | 2011.9   | 2112.7   | 2218.3   | 2357.6   | 2487.2   | 2501.6   | 2501.6   |
| 1440.5   | 42.5° | 1459.7   | 1570.1   | 1704.6   | 1810.2   | 1887.0   | 2016.7   | 2151.1   | 2160.7   | 2151.1   |
| 1219.6   | 45°   | 1248.4   | 1344.4   | 1474.1   | 1598.9   | 1661.4   | 1757.4   | 1887.0   | 1915.8   | 1896.6   |
| 1046.7   | 47.5° | 1085.2   | 1171.6   | 1282.0   | 1416.5   | 1483.7   | 1570.1   | 1690.2   | 1723.8   | 1719.0   |
| 902.7    | 50°   | 931.5    | 1032.3   | 1142.8   | 1253.2   | 1339.6   | 1421.3   | 1536.5   | 1574.9   | 1560.5   |
| 768.3    | 52.5° | 821.1    | 912.3    | 1008.3   | 1128.4   | 1229.2   | 1301.2   | 1392.5   | 1459.7   | 1440.5   |
| 648.2    | 55°   | 686.6    | 797.1    | 897.9    | 998.7    | 1123.6   | 1200.4   | 1286.8   | 1368.5   | 1349.2   |
| 547.4    | 57.5° | 595.4    | 686.6    | 801.9    | 893.1    | 1017.9   | 1109.2   | 1195.6   | 1282.0   | 1277.2   |
| 446.5    | 60°   | 499.4    | 595.4    | 705.8    | 801.9    | 917.1    | 1017.9   | 1104.4   | 1200.4   | 1210.0   |
| 336.1    | 62.5° | 393.7    | 509.0    | 605.0    | 715.4    | 830.7    | 941.1    | 1017.9   | 1114.0   | 1128.4   |
| 254.5    | 65°   | 297.7    | 417.7    | 523.4    | 629.0    | 744.2    | 864.3    | 931.5    | 1013.1   | 1027.5   |
| 187.3    | 67.5° | 220.9    | 321.7    | 446.5    | 542.6    | 662.6    | 777.9    | 840.3    | 907.5    | 931.5    |
| 115.2    | 70°   | 168.1    | 244.9    | 374.5    | 465.8    | 590.6    | 681.8    | 749.0    | 806.7    | 825.9    |
| 76.8     | 72.5° | 105.6    | 192.1    | 302.5    | 398.5    | 509.0    | 590.6    | 638.6    | 672.2    | 701.0    |
| 43.2     | 75°   | 72.0     | 148.8    | 244.9    | 340.9    | 422.5    | 485.0    | 528.2    | 557.0    | 581.0    |
| 19.2     | 77.5° | 43.2     | 115.2    | 201.7    | 283.3    | 336.1    | 384.1    | 427.3    | 446.5    | 461.0    |
| 14.4     | 80°   | 24.0     | 86.4     | 168.1    | 230.5    | 264.1    | 297.7    | 331.3    | 355.3    | 364.9    |
| 9.6      | 82.5° | 14.4     | 67.2     | 134.4    | 177.7    | 192.1    | 225.7    | 259.3    | 273.7    | 273.7    |
| 4.8      | 85°   | 9.6      | 48.0     | 91.2     | 129.6    | 139.2    | 163.3    | 172.9    | 182.5    | 192.1    |
| 4.8      | 87.5° | 9.6      | 28.8     | 57.6     | 72.0     | 76.8     | 86.4     | 91.2     | 100.8    | 110.4    |
| 0.0      | 90°   | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      |





180°  
150654.9  
145704.5  
136490.2  
121883.7  
106076.9  
87134.6  
66506.9  
47646.2  
34609.9  
25213.2  
17127.3  
10798.8  
6895.1  
4854.4  
3687.6  
2948.2  
2472.8  
2141.5  
1896.6  
1709.4  
1550.9  
1435.7  
1358.9  
1282.0  
1214.8  
1138.0  
1041.9  
941.1  
835.5  
696.2  
576.2  
456.2  
355.3  
268.9  
187.3  
105.6  
0.0

(END OF REPORT)