

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: P477354

Luminaire Tested: **IFLD-S-SA6C-735-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477354  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-735-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

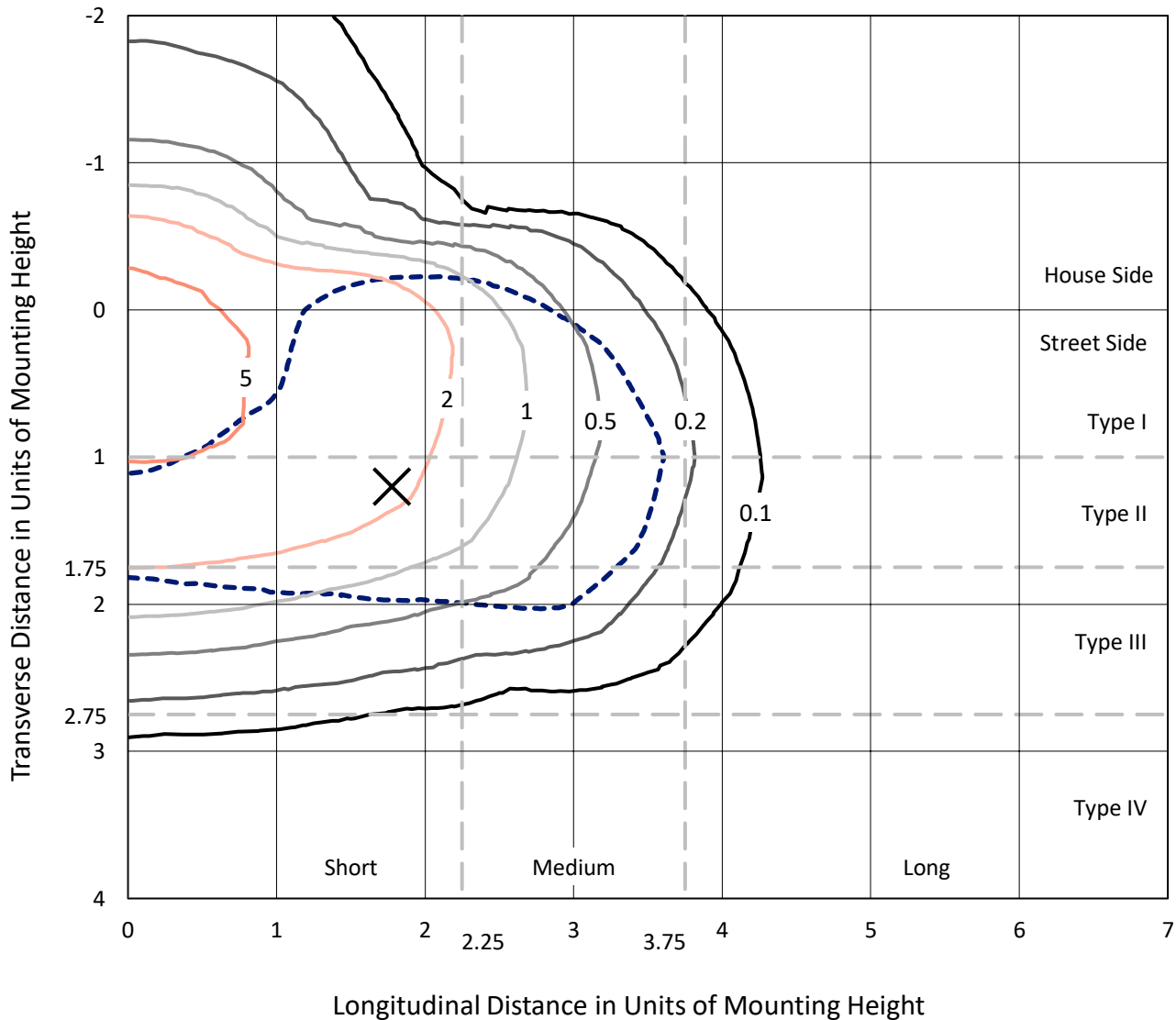
Lumens per Lamp: N/A  
Luminaire Lumens: 41741.6 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 321.5  
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: 24 FT

REPORT NUMBER: P477354  
 CATALOG NUMBER: IFLD-S-SA6C-735-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

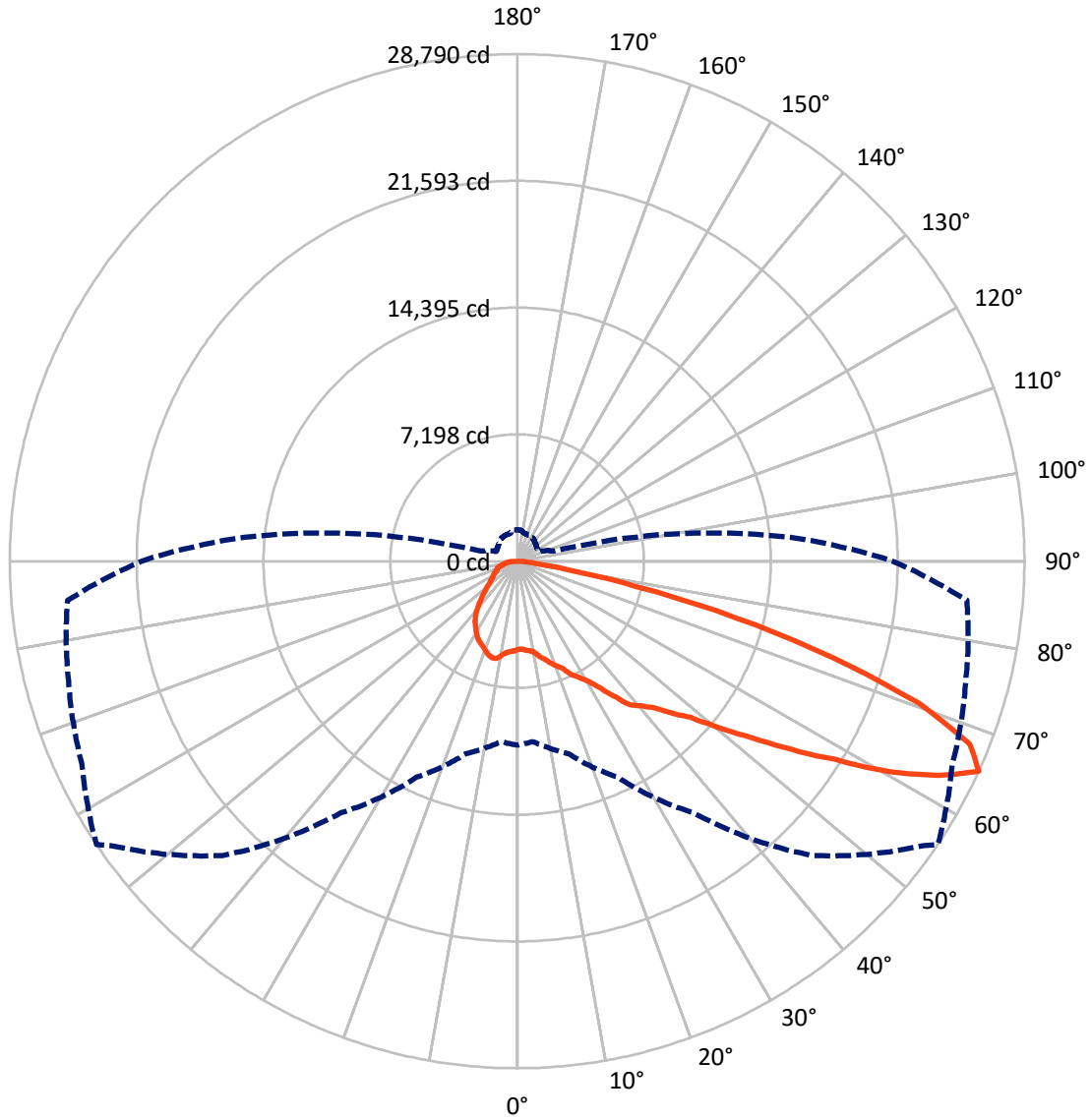
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P477354  
CATALOG NUMBER: IFLD-S-SA6C-735-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P477354  
 CATALOG NUMBER: IFLD-S-SA6C-735-U-T3

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9361.3   | 0.0    | 9361.3  |
|                    | % Fixture | 22.4     | 0.0    | 22.4    |
| <b>Street Side</b> | Lumens    | 32380.3  | 0.0    | 32380.3 |
|                    | % Fixture | 77.6     | 0.0    | 77.6    |
| <b>Total</b>       | Lumens    | 41741.6  | 0.0    | 41741.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 496.5   | 1.2       |
| 10°-20°   | 1612.2  | 3.9       |
| 20°-30°   | 2870.6  | 6.9       |
| 30°-40°   | 4298.6  | 10.3      |
| 40°-50°   | 6368.9  | 15.3      |
| 50°-60°   | 9813.6  | 23.5      |
| 60°-70°   | 11110.2 | 26.6      |
| 70°-80°   | 4610.8  | 11.0      |
| 80°-90°   | 560.2   | 1.3       |
| 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°    | 41741.6 | 100.0     |
| 0°-180°   | 41741.6 | 100.0     |

**Coefficient of Utilization**



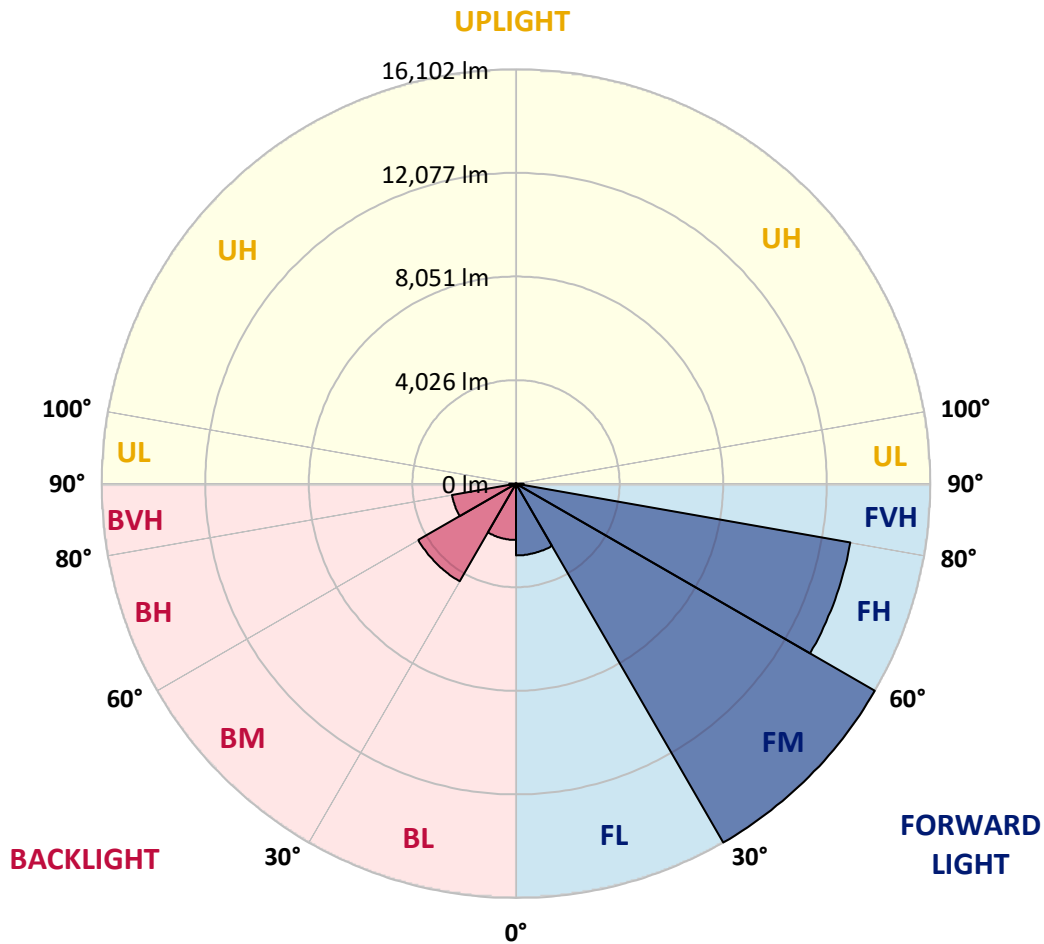
REPORT NUMBER: P477354

CATALOG NUMBER: IFLD-S-SA6C-735-U-T3

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2789.6  | 6.7       |                         |      |         |
| FM (30°-60°)   | 16102.1 | 38.6      |                         |      |         |
| FH (60°-80°)   | 13193.2 | 31.6      |                         |      | G5      |
| FVH (80°-90°)  | 295.5   | 0.7       |                         |      | G3/500  |
| BL (0°-30°)    | 2189.7  | 5.2       | B3/2500                 |      |         |
| BM (30°-60°)   | 4379.0  | 10.5      | B3/5000                 |      |         |
| BH (60°-80°)   | 2527.9  | 6.1       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 264.7   | 0.6       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**  
 Type III Short





REPORT NUMBER: P477354  
 CATALOG NUMBER: IFLD-S-SA6C-735-U-T3

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5010.2  | 5010.2  | 5010.2  | 5010.2  | 5010.2  | 5010.2  | 5010.2  | 5010.2  | 5010.2  | 5010.2  |
| 2.5°  | 4879.1  | 4905.3  | 4887.9  | 4940.3  | 4984.0  | 4984.0  | 5018.9  | 4992.7  | 5027.7  | 5075.7  |
| 5°    | 5040.8  | 4935.9  | 4992.7  | 5018.9  | 5005.8  | 5027.7  | 4992.7  | 5080.1  | 5023.3  | 5115.0  |
| 7.5°  | 5080.1  | 5119.4  | 5167.4  | 5123.7  | 5163.1  | 5141.2  | 5145.6  | 5132.5  | 5101.9  | 5176.2  |
| 10°   | 5368.4  | 5311.6  | 5420.8  | 5355.3  | 5346.5  | 5337.8  | 5320.3  | 5254.8  | 5329.0  | 5333.4  |
| 12.5° | 5700.3  | 5647.9  | 5643.6  | 5591.1  | 5661.0  | 5534.3  | 5560.6  | 5525.6  | 5538.7  | 5556.2  |
| 15°   | 5940.6  | 5918.7  | 6019.2  | 5958.1  | 5866.3  | 5809.5  | 5870.7  | 5774.6  | 5822.6  | 5813.9  |
| 17.5° | 6416.7  | 6412.3  | 6338.1  | 6237.6  | 6185.2  | 6102.2  | 6089.1  | 6049.8  | 6084.7  | 6067.3  |
| 20°   | 6748.7  | 6796.7  | 6809.8  | 6691.9  | 6491.0  | 6399.2  | 6377.4  | 6346.8  | 6386.1  | 6373.0  |
| 22.5° | 7255.4  | 7181.1  | 7237.9  | 7032.6  | 6958.3  | 6739.9  | 6661.3  | 6617.6  | 6805.5  | 6757.4  |
| 25°   | 7578.6  | 7657.2  | 7600.4  | 7530.6  | 7364.6  | 7093.8  | 7037.0  | 7133.1  | 7207.3  | 7154.9  |
| 27.5° | 8308.1  | 8229.4  | 8177.0  | 7967.4  | 7858.2  | 7574.2  | 7508.7  | 7473.8  | 7491.2  | 7521.8  |
| 30°   | 8862.8  | 8906.5  | 8788.6  | 8640.0  | 8364.9  | 8076.6  | 7923.7  | 7893.1  | 7832.0  | 7779.5  |
| 32.5° | 9653.4  | 9587.9  | 9518.0  | 9421.9  | 9186.1  | 8806.0  | 8657.5  | 8544.0  | 8360.5  | 8115.9  |
| 35°   | 10033.5 | 10221.3 | 10168.9 | 9911.2  | 9732.1  | 9587.9  | 9544.2  | 9369.5  | 9216.6  | 8832.2  |
| 37.5° | 10666.8 | 10745.5 | 10671.2 | 10588.2 | 10505.2 | 10352.3 | 10299.9 | 10348.0 | 10046.6 | 9413.2  |
| 40°   | 11077.4 | 11243.4 | 11396.3 | 11164.8 | 11147.3 | 11177.9 | 10854.7 | 10797.9 | 10177.6 | 9845.6  |
| 42.5° | 11916.1 | 11986.0 | 12016.6 | 12007.8 | 12108.3 | 12108.3 | 11492.4 | 11370.1 | 10928.9 | 10658.1 |
| 45°   | 13025.6 | 13082.4 | 13191.6 | 13270.2 | 13156.6 | 13213.4 | 12335.4 | 12287.4 | 11894.3 | 11841.8 |
| 47.5° | 13986.6 | 14122.0 | 14366.6 | 14598.1 | 14746.6 | 14554.4 | 13593.4 | 13252.7 | 13152.3 | 13466.8 |
| 50°   | 14825.2 | 14663.6 | 15235.8 | 15471.7 | 16122.6 | 16441.4 | 14982.5 | 14847.1 | 14685.5 | 15288.3 |
| 52.5° | 14908.2 | 15126.6 | 15934.7 | 16406.5 | 17747.5 | 18337.2 | 16686.0 | 16629.3 | 16432.7 | 17127.2 |
| 55°   | 15502.3 | 15476.1 | 16288.5 | 17310.7 | 18905.0 | 19896.6 | 18905.0 | 18870.1 | 18442.0 | 19101.6 |
| 57.5° | 15401.8 | 15668.3 | 16310.4 | 17738.7 | 19949.0 | 21569.5 | 21477.8 | 21237.6 | 20639.1 | 21176.4 |
| 60°   | 15061.1 | 15131.0 | 15912.9 | 17725.6 | 20556.2 | 23286.2 | 24255.9 | 24304.0 | 23080.9 | 23509.0 |
| 62.5° | 13130.4 | 13292.0 | 14283.6 | 16332.2 | 20123.7 | 24469.9 | 26968.5 | 26798.1 | 25819.7 | 25330.5 |
| 65°   | 10444.1 | 10282.4 | 11313.3 | 13527.9 | 17433.0 | 23631.3 | 28156.6 | 28790.0 | 27252.4 | 26357.0 |
| 67.5° | 6403.6  | 6364.3  | 7355.8  | 9308.4  | 13043.1 | 20110.6 | 27208.7 | 27702.3 | 26854.9 | 26138.5 |
| 70°   | 3297.9  | 3197.4  | 3817.7  | 5193.6  | 8198.9  | 14755.4 | 23679.3 | 24164.2 | 24972.3 | 23443.4 |
| 72.5° | 1537.6  | 1515.7  | 1847.7  | 2555.3  | 4175.9  | 8675.0  | 18337.2 | 18686.6 | 20390.2 | 19765.5 |
| 75°   | 904.2   | 917.3   | 1105.1  | 1336.6  | 2035.5  | 4088.5  | 12169.5 | 12846.5 | 14694.2 | 14244.3 |
| 77.5° | 677.1   | 677.1   | 786.3   | 930.4   | 1188.1  | 1581.2  | 6006.1  | 6901.6  | 8592.0  | 7727.1  |
| 80°   | 498.0   | 506.7   | 602.8   | 698.9   | 825.6   | 816.8   | 2385.0  | 2795.6  | 3940.0  | 3367.8  |
| 82.5° | 388.8   | 401.9   | 467.4   | 519.8   | 581.0   | 493.6   | 978.4   | 1052.7  | 1620.6  | 1288.6  |
| 85°   | 270.8   | 279.6   | 366.9   | 353.8   | 353.8   | 275.2   | 406.2   | 428.1   | 642.1   | 611.5   |
| 87.5° | 65.5    | 74.3    | 179.1   | 196.6   | 148.5   | 83.0    | 126.7   | 144.1   | 231.5   | 266.5   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



REPORT NUMBER: P477354  
 CATALOG NUMBER: IFLD-S-SA6C-735-U-T3

**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5010.2  | 0°    | 5010.2  | 5010.2  | 5010.2 | 5010.2 | 5010.2 | 5010.2 | 5010.2 | 5010.2 | 5010.2 | 5010.2 |
| 5097.5  | 2.5°  | 5032.0  | 5049.5  | 5123.7 | 5084.4 | 5106.3 | 5014.5 | 5088.8 | 5027.7 | 5080.1 | 5053.9 |
| 5136.9  | 5°    | 5171.8  | 5132.5  | 5176.2 | 5145.6 | 5145.6 | 5180.5 | 5233.0 | 5193.6 | 5272.3 | 5237.3 |
| 5167.4  | 7.5°  | 5228.6  | 5233.0  | 5259.2 | 5263.5 | 5241.7 | 5350.9 | 5355.3 | 5342.2 | 5416.4 | 5398.9 |
| 5377.1  | 10°   | 5368.4  | 5372.7  | 5420.8 | 5447.0 | 5425.1 | 5464.5 | 5420.8 | 5385.8 | 5381.5 | 5364.0 |
| 5543.1  | 12.5° | 5591.1  | 5634.8  | 5626.1 | 5647.9 | 5652.3 | 5486.3 | 5385.8 | 5215.5 | 5193.6 | 5215.5 |
| 5787.7  | 15°   | 5796.4  | 5779.0  | 5787.7 | 5831.4 | 5647.9 | 5381.5 | 5202.4 | 5058.2 | 5067.0 | 5071.3 |
| 6106.6  | 17.5° | 6041.0  | 6054.1  | 6067.3 | 5866.3 | 5530.0 | 5215.5 | 5058.2 | 5058.2 | 5014.5 | 5032.0 |
| 6329.3  | 20°   | 6320.6  | 6268.2  | 6154.6 | 5870.7 | 5324.7 | 5023.3 | 4975.2 | 4975.2 | 4922.8 | 4887.9 |
| 6569.6  | 22.5° | 6539.0  | 6434.2  | 6263.8 | 5735.3 | 5141.2 | 4949.0 | 4831.1 | 4748.1 | 4686.9 | 4617.1 |
| 6836.0  | 25°   | 6678.8  | 6622.0  | 6290.0 | 5595.5 | 5005.8 | 4752.5 | 4577.7 | 4451.1 | 4372.4 | 4280.7 |
| 7045.7  | 27.5° | 6892.8  | 6783.6  | 6364.3 | 5433.9 | 4857.3 | 4555.9 | 4285.1 | 4088.5 | 3940.0 | 3843.9 |
| 7364.6  | 30°   | 7181.1  | 7023.9  | 6311.9 | 5202.4 | 4630.2 | 4215.2 | 3896.3 | 3643.0 | 3472.6 | 3394.0 |
| 7666.0  | 32.5° | 7417.0  | 7211.7  | 6268.2 | 4992.7 | 4376.8 | 3870.1 | 3446.4 | 3188.7 | 3092.6 | 2992.1 |
| 8172.7  | 35°   | 7866.9  | 7460.7  | 6237.6 | 4874.8 | 4149.7 | 3525.0 | 3079.5 | 2856.7 | 2734.4 | 2585.9 |
| 8474.1  | 37.5° | 8212.0  | 7893.1  | 6163.4 | 4630.2 | 3857.0 | 3188.7 | 2799.9 | 2599.0 | 2415.5 | 2258.3 |
| 9173.0  | 40°   | 8753.6  | 8495.9  | 6167.7 | 4285.1 | 3511.9 | 2900.4 | 2581.5 | 2371.9 | 2140.4 | 2004.9 |
| 10208.2 | 42.5° | 9771.4  | 9090.0  | 6193.9 | 4009.9 | 3123.2 | 2664.5 | 2385.0 | 2136.0 | 1904.5 | 1790.9 |
| 11387.6 | 45°   | 11020.6 | 9906.8  | 6032.3 | 3760.9 | 2725.7 | 2441.8 | 2149.1 | 1900.1 | 1751.6 | 1668.6 |
| 12990.6 | 47.5° | 12457.7 | 10706.1 | 5813.9 | 3293.5 | 2393.7 | 2205.9 | 1930.7 | 1786.5 | 1677.3 | 1629.3 |
| 15056.7 | 50°   | 14065.2 | 11850.6 | 5752.8 | 2865.5 | 2136.0 | 2004.9 | 1825.9 | 1716.7 | 1642.4 | 1585.6 |
| 17384.9 | 52.5° | 16135.7 | 13182.8 | 5630.4 | 2424.3 | 1913.2 | 1843.3 | 1786.5 | 1712.3 | 1646.8 | 1598.7 |
| 19555.9 | 55°   | 18114.4 | 14659.3 | 5499.4 | 2061.7 | 1756.0 | 1764.7 | 1795.3 | 1729.8 | 1673.0 | 1598.7 |
| 21988.9 | 57.5° | 20342.1 | 16166.2 | 5014.5 | 1795.3 | 1638.0 | 1725.4 | 1786.5 | 1712.3 | 1655.5 | 1598.7 |
| 24478.7 | 60°   | 21718.1 | 17013.6 | 4066.7 | 1563.8 | 1533.2 | 1651.1 | 1734.1 | 1655.5 | 1594.3 | 1616.2 |
| 25623.1 | 62.5° | 22277.2 | 16568.1 | 3066.4 | 1419.6 | 1458.9 | 1550.7 | 1651.1 | 1620.6 | 1576.9 | 1659.9 |
| 25610.0 | 65°   | 21324.9 | 15541.6 | 2192.8 | 1297.3 | 1358.5 | 1450.2 | 1576.9 | 1611.8 | 1624.9 | 1786.5 |
| 23522.1 | 67.5° | 18974.9 | 13532.3 | 1611.8 | 1196.9 | 1253.6 | 1389.0 | 1629.3 | 1686.1 | 1677.3 | 1878.3 |
| 19739.3 | 70°   | 15183.4 | 10583.8 | 1258.0 | 1113.9 | 1214.3 | 1437.1 | 1703.5 | 1703.5 | 1642.4 | 1878.3 |
| 15056.7 | 72.5° | 11046.9 | 7460.7  | 1083.3 | 1017.8 | 1113.9 | 1319.2 | 1694.8 | 1690.4 | 1611.8 | 1716.7 |
| 9587.9  | 75°   | 6687.5  | 4341.9  | 956.6  | 921.7  | 956.6  | 1131.3 | 1620.6 | 1594.3 | 1485.1 | 1476.4 |
| 4612.7  | 77.5° | 3332.8  | 2184.0  | 781.9  | 816.8  | 834.3  | 947.9  | 1424.0 | 1463.3 | 1314.8 | 1279.8 |
| 1821.5  | 80°   | 1406.5  | 952.2   | 650.8  | 703.3  | 703.3  | 799.4  | 1183.7 | 1210.0 | 1092.0 | 1026.5 |
| 720.7   | 82.5° | 642.1   | 546.0   | 554.7  | 611.5  | 572.2  | 620.3  | 939.1  | 969.7  | 886.7  | 777.5  |
| 305.8   | 85°   | 270.8   | 310.1   | 423.7  | 480.5  | 423.7  | 401.9  | 646.5  | 681.4  | 576.6  | 480.5  |
| 131.0   | 87.5° | 122.3   | 170.4   | 266.5  | 349.4  | 214.0  | 187.8  | 345.1  | 358.2  | 288.3  | 214.0  |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END O





| <u>180°</u> |
|-------------|
| 5010.2      |
| 5005.8      |
| 5189.3      |
| 5372.7      |
| 5364.0      |
| 5224.2      |
| 5132.5      |
| 5036.4      |
| 4835.5      |
| 4577.7      |
| 4298.2      |
| 3887.6      |
| 3437.7      |
| 2987.8      |
| 2572.8      |
| 2262.7      |
| 2018.0      |
| 1799.6      |
| 1686.1      |
| 1620.6      |
| 1594.3      |
| 1594.3      |
| 1594.3      |
| 1594.3      |
| 1598.7      |
| 1638.0      |
| 1786.5      |
| 1891.4      |
| 1839.0      |
| 1655.5      |
| 1458.9      |
| 1258.0      |
| 1004.7      |
| 760.0       |
| 484.9       |
| 200.9       |
| 0.0         |

F REPORT)