

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: P477911

Luminaire Tested: **IFLD-L-SA7D-827-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477911
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-827-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

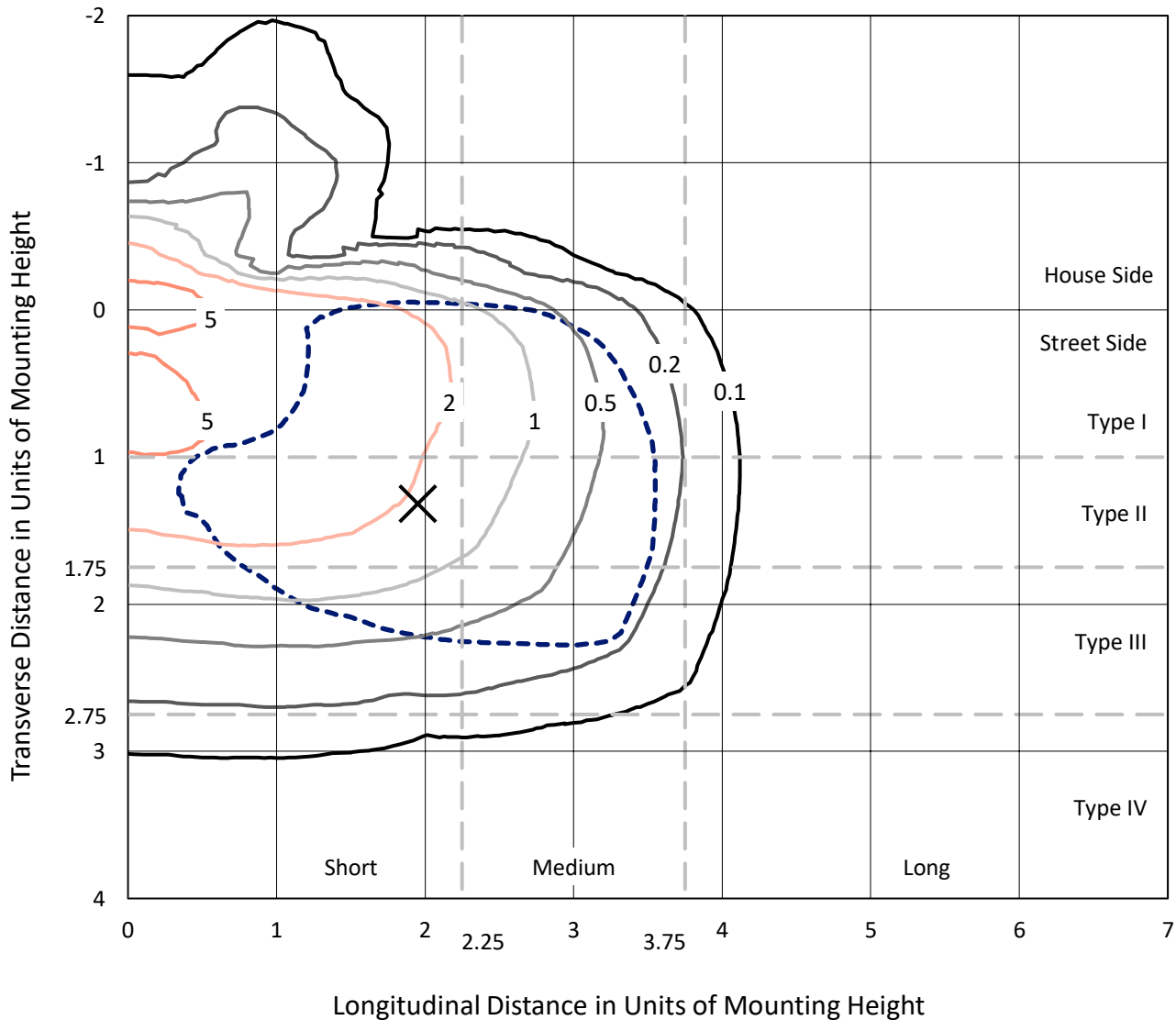
Lumens per Lamp: N/A
Luminaire Lumens: 35222.7 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (A_{in}): 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: P477911
 CATALOG NUMBER: IFLD-L-SA7D-827-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

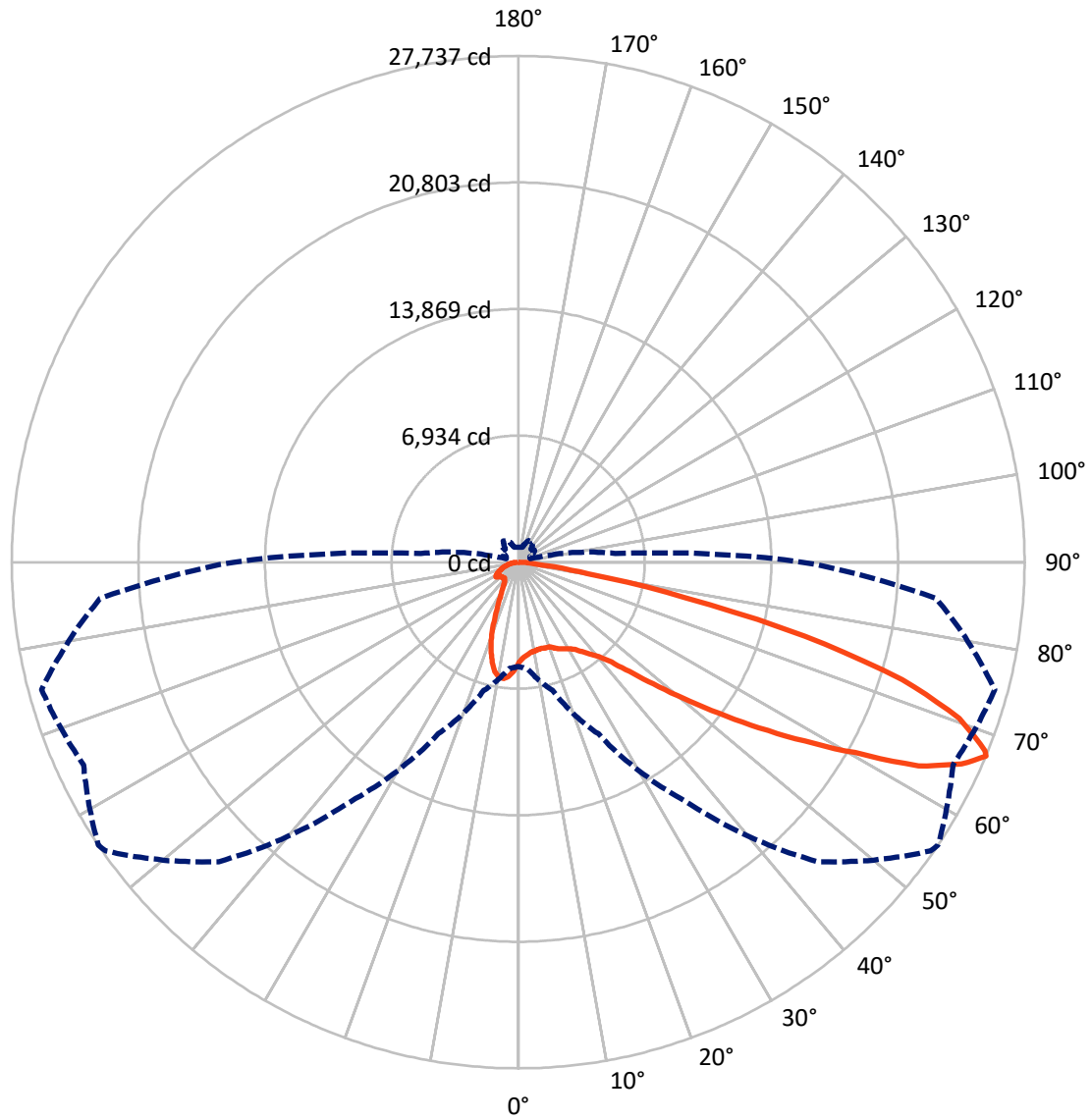
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

REPORT NUMBER: P477911
CATALOG NUMBER: IFLD-L-SA7D-827-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P477911
 CATALOG NUMBER: IFLD-L-SA7D-827-U-T3R

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5576.1 | 0.0 | 5576.1 |
| | % Fixture | 15.8 | 0.0 | 15.8 |
| Street Side | Lumens | 29646.6 | 0.0 | 29646.6 |
| | % Fixture | 84.2 | 0.0 | 84.2 |
| Total | Lumens | 35222.7 | 0.0 | 35222.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 528.0 | 1.5 |
| 10°-20° | 1440.4 | 4.1 |
| 20°-30° | 2259.0 | 6.4 |
| 30°-40° | 3224.7 | 9.2 |
| 40°-50° | 4867.0 | 13.8 |
| 50°-60° | 7747.5 | 22.0 |
| 60°-70° | 9904.5 | 28.1 |
| 70°-80° | 4829.1 | 13.7 |
| 80°-90° | 422.4 | 1.2 |
| 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° | 35222.7 | 100.0 |
| 0°-180° | 35222.7 | 100.0 |

Coefficient of Utilization

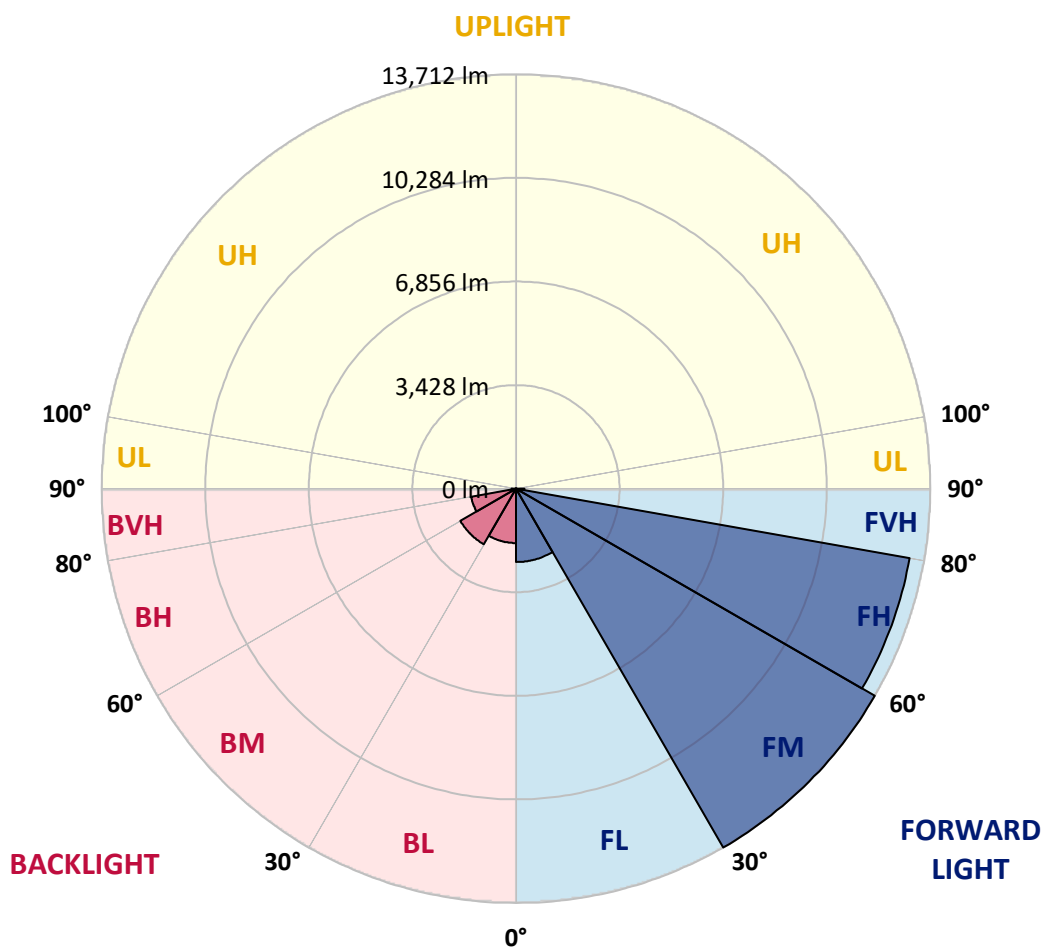


REPORT NUMBER: P477911
 CATALOG NUMBER: IFLD-L-SA7D-827-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2427.2 | 6.9 | | | |
| FM (30°-60°) | 13711.9 | 38.9 | | | |
| FH (60°-80°) | 13226.9 | 37.6 | | | G5 |
| FVH (80°-90°) | 280.6 | 0.8 | | | G3/500 |
| BL (0°-30°) | 1800.1 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2127.3 | 6.0 | B2/2500 | | |
| BH (60°-80°) | 1506.8 | 4.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 141.9 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type III Short





REPORT NUMBER: P477911
 CATALOG NUMBER: IFLD-L-SA7D-827-U-T3R

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5480.6 | 5480.6 | 5480.6 | 5480.6 | 5480.6 | 5480.6 | 5480.6 | 5480.6 | 5480.6 | 5480.6 |
| 2.5° | 5034.5 | 5013.9 | 5038.6 | 5013.9 | 5125.4 | 5191.5 | 5212.1 | 5241.0 | 5344.3 | 5443.4 |
| 5° | 4823.9 | 4733.0 | 4832.1 | 4865.2 | 4873.4 | 4985.0 | 5100.6 | 5121.2 | 5174.9 | 5336.0 |
| 7.5° | 4472.8 | 4576.1 | 4538.9 | 4638.0 | 4741.3 | 4852.8 | 5042.8 | 4989.1 | 5187.3 | 5340.1 |
| 10° | 4398.5 | 4406.7 | 4448.1 | 4485.2 | 4576.1 | 4720.6 | 4985.0 | 4951.9 | 5154.3 | 5480.6 |
| 12.5° | 4472.8 | 4472.8 | 4460.4 | 4431.5 | 4534.8 | 4675.2 | 4885.8 | 4902.4 | 5220.4 | 5521.9 |
| 15° | 4733.0 | 4782.6 | 4650.4 | 4671.1 | 4629.8 | 4675.2 | 4861.1 | 4898.2 | 5245.1 | 5554.9 |
| 17.5° | 5369.0 | 5352.5 | 5195.6 | 4976.7 | 4795.0 | 4766.1 | 4894.1 | 4935.4 | 5220.4 | 5649.9 |
| 20° | 5988.6 | 5955.5 | 5682.9 | 5455.8 | 5096.5 | 4927.1 | 4947.8 | 4951.9 | 5261.7 | 5711.8 |
| 22.5° | 6678.3 | 6765.0 | 6467.6 | 6005.1 | 5559.0 | 5137.8 | 5055.2 | 5121.2 | 5356.7 | 5744.9 |
| 25° | 7760.3 | 7574.5 | 7318.4 | 6711.3 | 5992.7 | 5464.0 | 5232.8 | 5265.8 | 5447.5 | 5827.5 |
| 27.5° | 8540.9 | 8466.6 | 8066.0 | 7574.5 | 6599.8 | 5720.1 | 5327.7 | 5389.7 | 5612.7 | 5823.4 |
| 30° | 9292.6 | 9292.6 | 9048.9 | 8313.8 | 7240.0 | 6149.6 | 5530.1 | 5501.2 | 5534.3 | 5815.1 |
| 32.5° | 10172.3 | 10052.5 | 9701.5 | 9214.1 | 8045.3 | 6542.0 | 5691.2 | 5699.5 | 5699.5 | 5967.9 |
| 35° | 10634.8 | 10829.0 | 10593.5 | 9800.6 | 8660.7 | 7194.5 | 6079.4 | 6017.5 | 5972.0 | 6137.2 |
| 37.5° | 11312.2 | 11427.8 | 11180.0 | 10713.3 | 9424.7 | 7723.2 | 6422.2 | 6372.6 | 6108.3 | 6269.4 |
| 40° | 11721.0 | 11700.4 | 11692.1 | 11477.4 | 10436.6 | 8346.8 | 6926.1 | 6798.0 | 6442.9 | 6736.1 |
| 42.5° | 11952.3 | 11911.0 | 12419.0 | 12286.9 | 11390.6 | 9263.7 | 7558.0 | 7487.8 | 7095.4 | 7566.2 |
| 45° | 12212.5 | 12518.1 | 12935.3 | 13307.0 | 12501.6 | 10552.2 | 8627.6 | 8528.5 | 8177.5 | 8776.3 |
| 47.5° | 12439.7 | 12815.5 | 13348.3 | 13744.8 | 13505.2 | 11952.3 | 9949.3 | 9974.0 | 9742.8 | 10358.1 |
| 50° | 12819.6 | 12856.8 | 13579.6 | 14380.8 | 14566.6 | 13245.0 | 11725.2 | 11683.9 | 11580.6 | 12443.8 |
| 52.5° | 12704.0 | 12815.5 | 13728.2 | 14752.5 | 15058.1 | 14612.1 | 13633.3 | 13757.2 | 13620.9 | 14707.1 |
| 55° | 10820.7 | 11155.2 | 13637.4 | 15144.8 | 16222.8 | 16156.7 | 16086.5 | 16003.9 | 15995.6 | 17251.2 |
| 57.5° | 9965.8 | 10238.4 | 12014.3 | 15578.5 | 17470.1 | 17957.4 | 18411.7 | 18502.6 | 18498.4 | 20014.2 |
| 60° | 9404.1 | 9684.9 | 11357.6 | 15343.1 | 18531.5 | 20315.7 | 21187.1 | 21199.5 | 21174.7 | 22967.1 |
| 62.5° | 8305.5 | 8578.1 | 10221.8 | 14054.5 | 18824.7 | 22492.2 | 24433.3 | 24594.4 | 23458.6 | 25511.2 |
| 65° | 6983.9 | 7206.9 | 8656.6 | 12084.5 | 18044.1 | 23875.7 | 26874.2 | 26684.2 | 25383.2 | 26965.0 |
| 67° | 5711.8 | 5860.5 | 7273.0 | 10374.7 | 16003.9 | 23210.8 | 27580.4 | 27737.3 | 26271.2 | 27027.0 |
| 67.5° | 5348.4 | 5484.7 | 6818.7 | 9792.3 | 15227.4 | 22706.9 | 27605.2 | 27580.4 | 26287.7 | 27039.4 |
| 70° | 3712.9 | 3770.7 | 4646.3 | 6736.1 | 11217.2 | 19184.0 | 25589.7 | 25647.5 | 25185.0 | 25573.2 |
| 72.5° | 2461.5 | 2548.2 | 3105.8 | 4245.7 | 6612.2 | 13959.5 | 21389.5 | 22009.0 | 21715.7 | 20968.2 |
| 75° | 1585.9 | 1635.5 | 2032.0 | 2527.6 | 3254.5 | 7950.3 | 15801.5 | 16214.5 | 15541.3 | 12968.3 |
| 77.5° | 888.0 | 941.6 | 1226.6 | 1536.4 | 1585.9 | 3308.2 | 8875.5 | 9387.6 | 7954.5 | 5509.5 |
| 80° | 553.4 | 623.6 | 925.1 | 912.7 | 755.8 | 1214.2 | 3659.2 | 3919.4 | 3180.1 | 1895.7 |
| 82.5° | 417.1 | 470.8 | 714.5 | 640.2 | 425.4 | 541.0 | 1371.2 | 1470.3 | 1164.7 | 731.0 |
| 85° | 285.0 | 359.3 | 516.3 | 396.5 | 223.0 | 260.2 | 545.2 | 586.5 | 532.8 | 355.2 |
| 87.5° | 103.3 | 152.8 | 268.5 | 198.2 | 99.1 | 78.5 | 177.6 | 198.2 | 190.0 | 161.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P477911
 CATALOG NUMBER: IFLD-L-SA7D-827-U-T3R

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5480.6 | 0° | 5480.6 | 5480.6 | 5480.6 | 5480.6 | 5480.6 | 5480.6 | 5480.6 | 5480.6 | 5480.6 | 5480.6 |
| 5530.1 | 2.5° | 5608.6 | 5666.4 | 5695.3 | 5864.7 | 5934.9 | 5922.5 | 5939.0 | 5963.8 | 5988.6 | 6021.6 |
| 5600.3 | 5° | 5654.0 | 5831.6 | 5926.6 | 6124.8 | 6257.0 | 6199.2 | 6273.5 | 6252.9 | 6224.0 | 6219.8 |
| 5728.4 | 7.5° | 5802.7 | 6029.9 | 6314.8 | 6368.5 | 6426.3 | 6281.8 | 6157.9 | 5988.6 | 5947.3 | 5802.7 |
| 5835.7 | 10° | 6067.0 | 6252.9 | 6599.8 | 6620.5 | 6364.4 | 5992.7 | 5716.0 | 5364.9 | 5360.8 | 5150.2 |
| 6000.9 | 12.5° | 6319.0 | 6529.6 | 6810.4 | 6690.7 | 6079.4 | 5571.4 | 5121.2 | 4737.2 | 4576.1 | 4468.7 |
| 6100.1 | 15° | 6475.9 | 6822.8 | 6971.5 | 6455.2 | 5579.7 | 4894.1 | 4311.8 | 3898.8 | 3733.6 | 3655.1 |
| 6224.0 | 17.5° | 6620.5 | 7103.7 | 7037.6 | 6042.2 | 4964.3 | 4196.1 | 3502.3 | 3143.0 | 3097.5 | 3039.7 |
| 6422.2 | 20° | 6818.7 | 7206.9 | 6802.2 | 5505.3 | 4266.3 | 3295.8 | 2853.9 | 2680.4 | 2721.7 | 2746.5 |
| 6442.9 | 22.5° | 7004.5 | 7260.6 | 6504.8 | 4918.9 | 3370.1 | 2610.2 | 2391.3 | 2428.5 | 2490.4 | 2573.0 |
| 6492.4 | 25° | 7087.1 | 7347.3 | 6104.2 | 4109.4 | 2564.8 | 2197.2 | 2147.6 | 2209.6 | 2312.8 | 2317.0 |
| 6562.6 | 27.5° | 7140.8 | 7285.4 | 5621.0 | 3320.6 | 2027.8 | 1920.5 | 1994.8 | 2040.2 | 2052.6 | 2102.2 |
| 6711.3 | 30° | 7235.8 | 7157.4 | 5009.7 | 2374.8 | 1701.6 | 1705.7 | 1800.7 | 1800.7 | 1800.7 | 1837.9 |
| 6860.0 | 32.5° | 7401.0 | 7070.6 | 4295.2 | 1734.6 | 1466.2 | 1598.3 | 1573.5 | 1565.3 | 1548.8 | 1503.3 |
| 7050.0 | 35° | 7504.3 | 6835.2 | 3390.8 | 1284.4 | 1317.5 | 1466.2 | 1457.9 | 1329.9 | 1115.1 | 1007.7 |
| 7533.2 | 37.5° | 7719.0 | 6715.4 | 2494.5 | 991.2 | 1230.8 | 1400.1 | 1354.7 | 1044.9 | 809.5 | 706.2 |
| 8132.0 | 40° | 8181.6 | 6637.0 | 1726.4 | 867.3 | 1172.9 | 1367.0 | 1210.1 | 892.1 | 619.5 | 437.8 |
| 9057.2 | 42.5° | 8747.4 | 6641.1 | 1172.9 | 817.7 | 1177.1 | 1437.3 | 1164.7 | 764.1 | 437.8 | 351.1 |
| 10292.1 | 45° | 9507.3 | 6579.1 | 805.4 | 817.7 | 1251.4 | 1552.9 | 1193.6 | 693.8 | 425.4 | 446.0 |
| 11840.8 | 47.5° | 10325.1 | 6632.8 | 598.9 | 743.4 | 1263.8 | 1557.0 | 1090.3 | 681.5 | 408.9 | 516.3 |
| 13525.9 | 50° | 11279.1 | 6686.5 | 495.6 | 685.6 | 1267.9 | 1507.5 | 1003.6 | 664.9 | 425.4 | 545.2 |
| 15458.7 | 52.5° | 12262.1 | 6855.9 | 421.3 | 648.4 | 1317.5 | 1486.8 | 1003.6 | 689.7 | 425.4 | 475.0 |
| 17920.2 | 55° | 13728.2 | 7289.5 | 607.1 | 809.5 | 1499.2 | 1623.1 | 1234.9 | 966.4 | 594.7 | 611.2 |
| 20278.5 | 57.5° | 15347.2 | 7735.6 | 677.3 | 850.8 | 1540.5 | 1462.0 | 1329.9 | 1065.5 | 627.8 | 631.9 |
| 22112.2 | 60° | 16412.8 | 7752.1 | 673.2 | 830.1 | 1441.4 | 1263.8 | 1301.0 | 1123.4 | 640.2 | 541.0 |
| 23248.0 | 62.5° | 16838.2 | 7248.2 | 702.1 | 830.1 | 1342.3 | 1181.2 | 1334.0 | 1210.1 | 660.8 | 677.3 |
| 23570.1 | 65° | 16354.9 | 6207.4 | 677.3 | 743.4 | 1181.2 | 1057.3 | 1342.3 | 1226.6 | 722.8 | 681.5 |
| 22991.9 | 67° | 15599.2 | 5348.4 | 689.7 | 706.2 | 1098.6 | 1003.6 | 1412.5 | 1288.6 | 838.4 | 817.7 |
| 22690.4 | 67.5° | 15384.4 | 5121.2 | 685.6 | 685.6 | 1069.7 | 987.1 | 1429.0 | 1288.6 | 854.9 | 846.7 |
| 20026.6 | 70° | 13558.9 | 4150.7 | 702.1 | 677.3 | 945.8 | 937.5 | 1519.9 | 1358.8 | 982.9 | 991.2 |
| 14711.2 | 72.5° | 10321.0 | 3147.1 | 698.0 | 677.3 | 821.9 | 896.2 | 1532.2 | 1404.2 | 1069.7 | 991.2 |
| 8239.4 | 75° | 5864.7 | 1883.3 | 615.4 | 590.6 | 648.4 | 780.6 | 1433.1 | 1338.1 | 1040.8 | 888.0 |
| 3291.6 | 77.5° | 2424.3 | 970.6 | 565.8 | 532.8 | 536.9 | 636.0 | 1193.6 | 1247.3 | 991.2 | 755.8 |
| 1098.6 | 80° | 904.5 | 582.3 | 454.3 | 425.4 | 413.0 | 466.7 | 850.8 | 995.3 | 846.7 | 619.5 |
| 483.2 | 82.5° | 470.8 | 363.4 | 309.8 | 309.8 | 280.8 | 297.4 | 458.4 | 660.8 | 640.2 | 425.4 |
| 194.1 | 85° | 239.5 | 206.5 | 177.6 | 173.5 | 156.9 | 140.4 | 231.3 | 392.4 | 367.6 | 235.4 |
| 86.7 | 87.5° | 128.0 | 115.6 | 74.3 | 70.2 | 57.8 | 37.2 | 41.3 | 78.5 | 128.0 | 103.3 |
| 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> |
|-------------|
| 5480.6 |
| 6054.6 |
| 6257.0 |
| 5852.3 |
| 5141.9 |
| 4443.9 |
| 3638.6 |
| 3068.6 |
| 2717.6 |
| 2527.6 |
| 2358.3 |
| 2147.6 |
| 1879.2 |
| 1478.6 |
| 1057.3 |
| 702.1 |
| 425.4 |
| 342.8 |
| 454.3 |
| 574.1 |
| 631.9 |
| 487.3 |
| 644.3 |
| 611.2 |
| 557.6 |
| 685.6 |
| 669.1 |
| 805.4 |
| 830.1 |
| 916.9 |
| 879.7 |
| 793.0 |
| 714.5 |
| 565.8 |
| 334.5 |
| 194.1 |
| 74.3 |
| 0.0 |

F REPORT)