

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: P452903

Luminaire Tested: **GLAN-SA3D-827-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452903  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3D-827-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16947 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 184  
Input Voltage (V): NR  
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

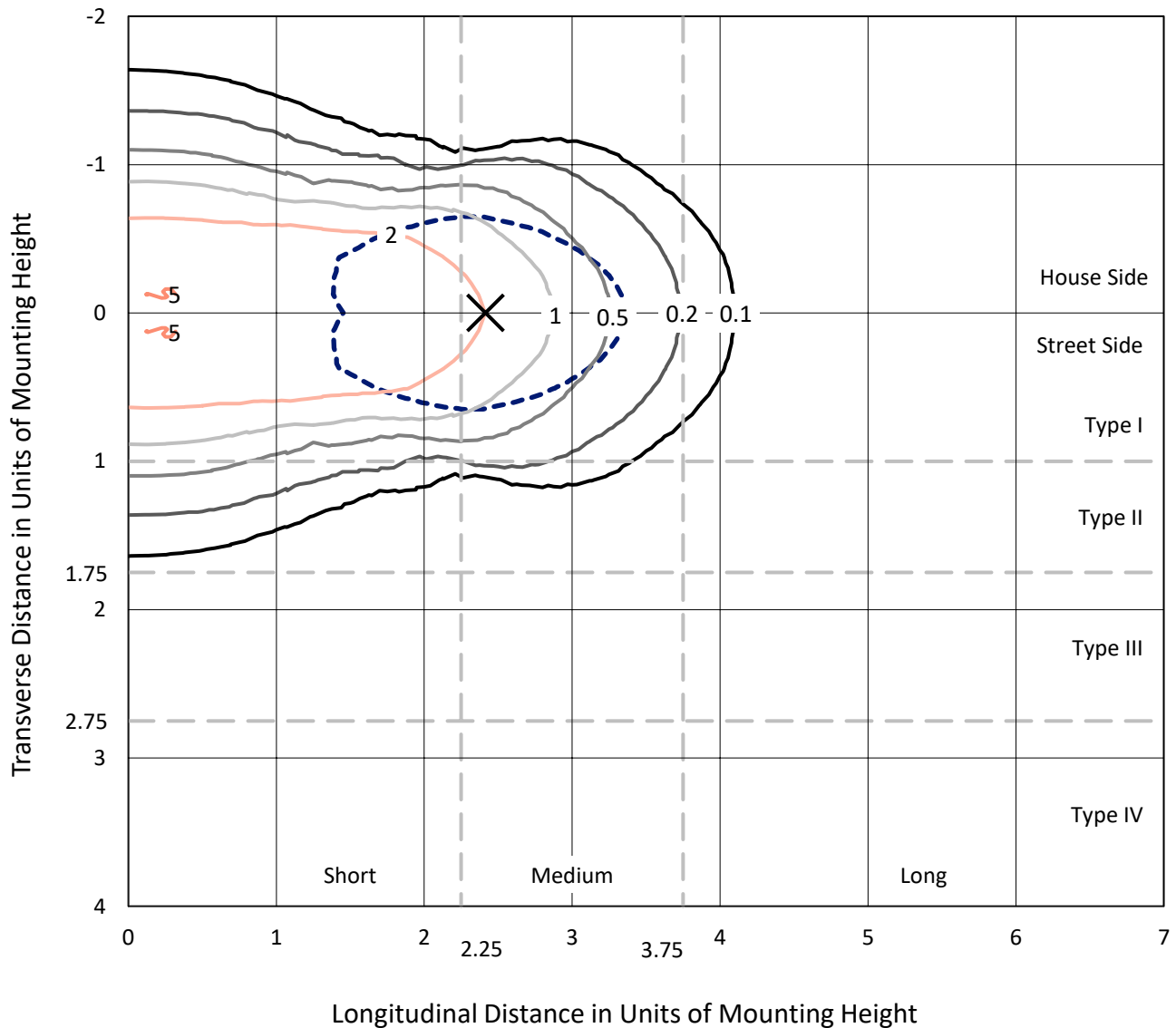


REPORT NUMBER: P452903

CATALOG NUMBER: GLAN-SA3D-827-U-T1

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

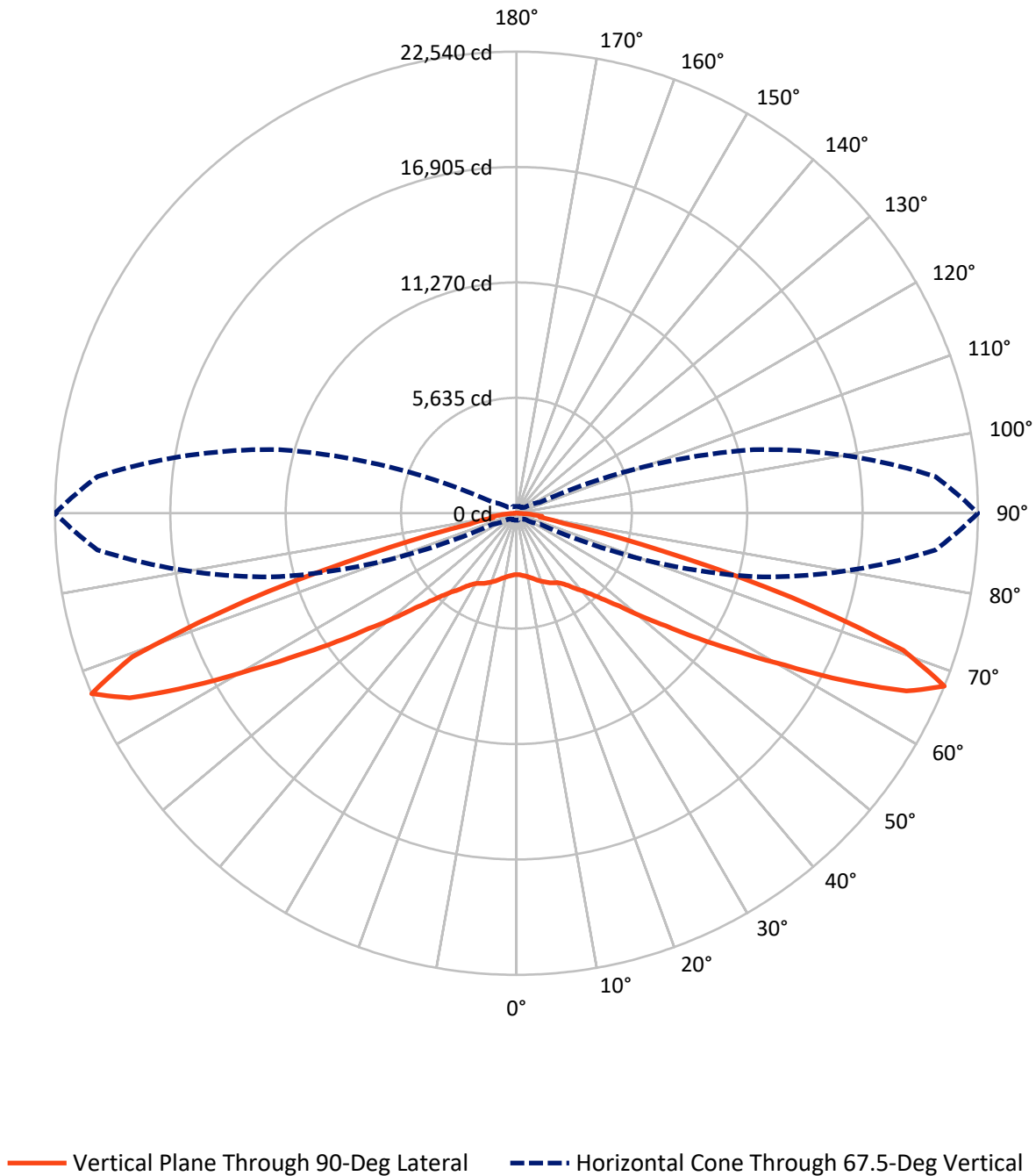


Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type I - Short - N/A

REPORT NUMBER: P452903

CATALOG NUMBER: GLAN-SA3D-827-U-T1

## Luminous Intensity Polar Plot



REPORT NUMBER: P452903

CATALOG NUMBER: GLAN-SA3D-827-U-T1

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8473.5   | 0.0    | 8473.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8473.5   | 0.0    | 8473.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 16947.0  | 0.0    | 16947.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 299.1   | 1.8       |
| 10°-20°   | 957.0   | 5.6       |
| 20°-30°   | 1601.8  | 9.5       |
| 30°-40°   | 2170.0  | 12.8      |
| 40°-50°   | 2748.6  | 16.2      |
| 50°-60°   | 3433.8  | 20.3      |
| 60°-70°   | 4036.2  | 23.8      |
| 70°-80°   | 1544.0  | 9.1       |
| 80°-90°   | 156.4   | 0.9       |
| 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°    | 16947.0 | 100.0     |
| 0°-180°   | 16947.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P452903

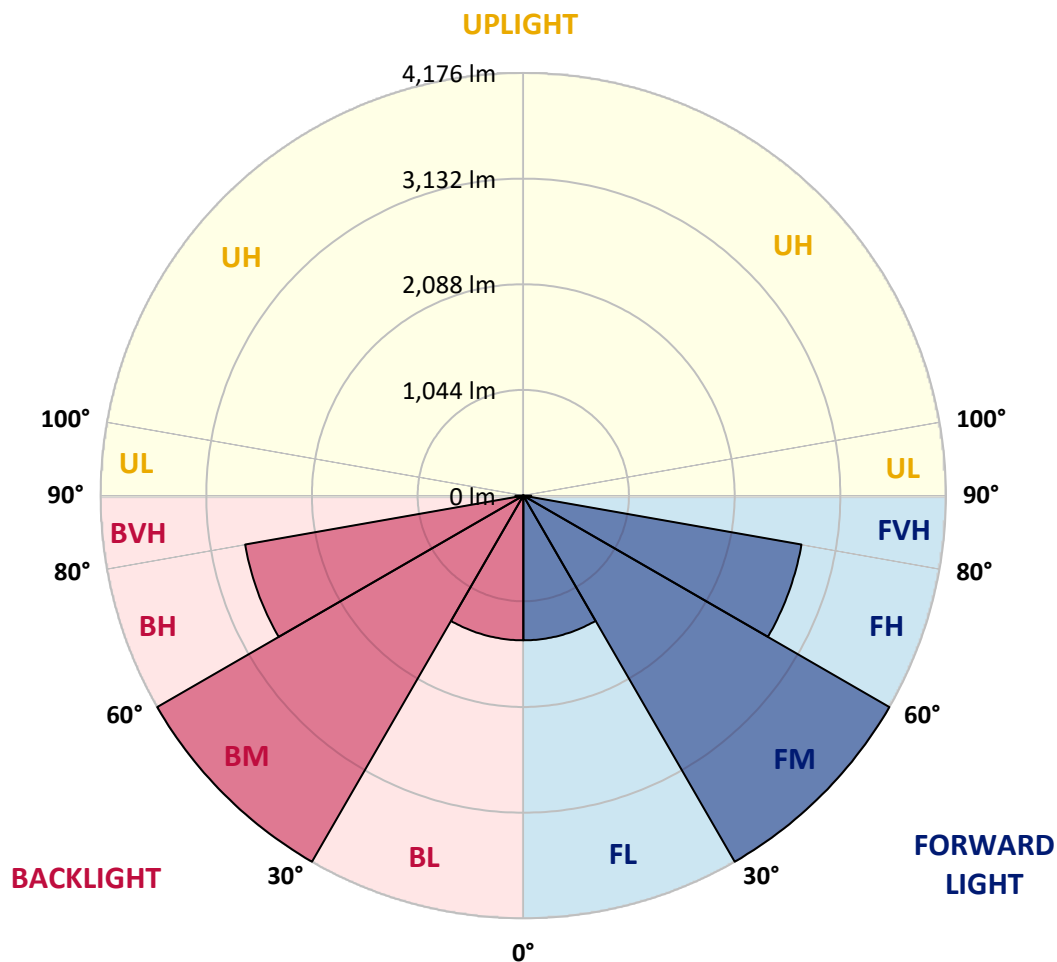
CATALOG NUMBER: GLAN-SA3D-827-U-T1

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1429.0 | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 4176.2 | 24.6      |                         |      |         |
| FH   | (60°-80°)   | 2790.1 | 16.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 78.2   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1429.0 | 8.4       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4176.2 | 24.6      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2790.1 | 16.5      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 78.2   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type I Short





REPORT NUMBER: P452903

CATALOG NUMBER: GLAN-SA3D-827-U-T1

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 85°     | 90°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 3000.1 | 3000.1 | 3000.1 | 3000.1 | 3000.1 | 3000.1 | 3000.1 | 3000.1 | 3000.1  | 3000.1  | 3000.1  |
| 2.5°  | 3038.6 | 3036.7 | 3037.7 | 3036.7 | 3039.6 | 3037.7 | 3026.4 | 3017.0 | 3009.5  | 3010.5  | 3007.7  |
| 5°    | 3103.4 | 3104.3 | 3105.3 | 3100.6 | 3107.1 | 3103.4 | 3085.5 | 3070.5 | 3055.5  | 3049.9  | 3048.0  |
| 7.5°  | 3156.9 | 3161.6 | 3164.4 | 3169.1 | 3180.3 | 3180.3 | 3170.9 | 3149.4 | 3116.5  | 3097.7  | 3096.8  |
| 10°   | 3210.4 | 3214.1 | 3222.6 | 3237.6 | 3256.3 | 3274.2 | 3270.4 | 3241.3 | 3199.1  | 3167.2  | 3159.7  |
| 12.5° | 3229.1 | 3233.8 | 3262.0 | 3305.1 | 3347.4 | 3382.1 | 3382.1 | 3358.6 | 3304.2  | 3255.4  | 3241.3  |
| 15°   | 3163.4 | 3171.9 | 3222.6 | 3314.5 | 3425.3 | 3501.3 | 3518.2 | 3485.3 | 3427.1  | 3352.1  | 3335.2  |
| 17.5° | 3033.0 | 3053.6 | 3127.8 | 3263.8 | 3447.8 | 3605.4 | 3654.2 | 3638.3 | 3563.2  | 3467.5  | 3447.8  |
| 20°   | 2893.2 | 2915.7 | 2994.5 | 3174.7 | 3429.0 | 3666.4 | 3808.1 | 3811.9 | 3719.0  | 3580.1  | 3551.0  |
| 22.5° | 2739.3 | 2756.2 | 2857.5 | 3068.7 | 3372.7 | 3680.5 | 3940.4 | 4005.2 | 3879.5  | 3692.7  | 3651.4  |
| 25°   | 2566.6 | 2585.4 | 2691.4 | 2919.4 | 3266.7 | 3664.6 | 4061.5 | 4204.1 | 4047.4  | 3812.8  | 3760.3  |
| 27.5° | 2401.4 | 2408.9 | 2522.5 | 2754.3 | 3126.8 | 3623.3 | 4150.7 | 4387.1 | 4233.2  | 3912.3  | 3845.7  |
| 30°   | 2242.8 | 2260.7 | 2361.1 | 2590.1 | 2966.4 | 3542.6 | 4227.6 | 4595.5 | 4433.1  | 4016.5  | 3931.1  |
| 32.5° | 2074.9 | 2096.4 | 2205.3 | 2437.1 | 2805.9 | 3421.5 | 4274.5 | 4823.5 | 4711.8  | 4185.4  | 4094.4  |
| 35°   | 1913.4 | 1927.5 | 2037.3 | 2262.5 | 2649.2 | 3280.7 | 4283.0 | 5080.6 | 5071.3  | 4441.6  | 4320.5  |
| 37.5° | 1748.3 | 1768.9 | 1879.7 | 2095.5 | 2483.1 | 3131.5 | 4240.7 | 5353.7 | 5504.8  | 4797.2  | 4666.8  |
| 40°   | 1589.7 | 1607.5 | 1716.4 | 1934.1 | 2294.5 | 2949.5 | 4140.3 | 5603.3 | 6010.6  | 5163.2  | 4978.3  |
| 42.5° | 1417.0 | 1421.7 | 1540.9 | 1762.4 | 2109.6 | 2738.3 | 3995.8 | 5825.7 | 6574.6  | 5654.0  | 5424.1  |
| 45°   | 1220.9 | 1233.1 | 1343.8 | 1561.5 | 1897.5 | 2501.8 | 3799.7 | 6009.7 | 7289.7  | 6334.4  | 6020.9  |
| 47.5° | 1024.8 | 1035.1 | 1136.4 | 1351.3 | 1665.7 | 2230.6 | 3497.5 | 6171.1 | 8023.5  | 7198.7  | 6787.6  |
| 50°   | 833.3  | 839.0  | 921.5  | 1112.0 | 1404.8 | 1945.4 | 3123.1 | 6222.7 | 8853.1  | 8422.4  | 7897.8  |
| 52.5° | 658.8  | 667.2  | 730.1  | 879.3  | 1126.1 | 1608.5 | 2718.6 | 6095.1 | 9821.6  | 9873.2  | 9133.7  |
| 55°   | 534.0  | 536.8  | 583.7  | 693.5  | 880.2  | 1255.6 | 2230.6 | 5739.4 | 10863.2 | 11732.2 | 10789.1 |
| 57.5° | 459.8  | 461.7  | 488.0  | 549.0  | 677.5  | 946.9  | 1730.5 | 5066.6 | 11798.8 | 13910.3 | 12697.8 |
| 60°   | 417.6  | 418.5  | 433.6  | 469.2  | 536.8  | 726.3  | 1239.7 | 4116.9 | 12722.2 | 16334.2 | 15070.2 |
| 62.5° | 391.3  | 391.3  | 401.6  | 421.4  | 454.2  | 557.4  | 898.1  | 2970.1 | 13354.7 | 18793.8 | 17994.3 |
| 65°   | 366.0  | 366.0  | 373.5  | 387.6  | 405.4  | 456.1  | 663.5  | 1936.9 | 13338.8 | 20585.3 | 20935.3 |
| 67.5° | 336.9  | 336.9  | 342.5  | 356.6  | 366.9  | 392.3  | 512.4  | 1268.8 | 11981.8 | 20545.9 | 22540.0 |
| 70°   | 302.2  | 302.2  | 309.7  | 321.9  | 330.3  | 346.3  | 404.5  | 868.0  | 8802.4  | 17542.9 | 20045.7 |
| 72.5° | 267.5  | 268.4  | 273.1  | 285.3  | 291.9  | 301.2  | 336.0  | 608.1  | 5399.7  | 11945.2 | 14016.3 |
| 75°   | 229.0  | 230.9  | 235.5  | 247.7  | 253.4  | 257.1  | 283.4  | 433.6  | 2731.8  | 6440.4  | 7332.9  |
| 77.5° | 184.9  | 188.6  | 191.4  | 204.6  | 208.3  | 214.0  | 233.7  | 313.4  | 1199.3  | 2314.2  | 2334.8  |
| 80°   | 135.1  | 139.8  | 148.3  | 160.5  | 163.3  | 167.0  | 178.3  | 222.4  | 543.3   | 1056.7  | 1147.7  |
| 82.5° | 99.5   | 106.0  | 95.7   | 111.7  | 111.7  | 107.0  | 125.7  | 149.2  | 249.6   | 1046.3  | 1251.9  |
| 85°   | 54.4   | 55.4   | 49.7   | 57.2   | 61.0   | 60.1   | 66.6   | 73.2   | 121.1   | 698.2   | 719.8   |
| 87.5° | 13.1   | 14.1   | 15.0   | 17.8   | 21.6   | 21.6   | 23.5   | 20.6   | 39.4    | 226.2   | 129.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |

(END OF REPORT)