

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: P452831

Luminaire Tested: **GLAN-SA3D-750-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452831  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3D-750-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24170 lumens  
Efficiency: N/A  
Efficacy: 131.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

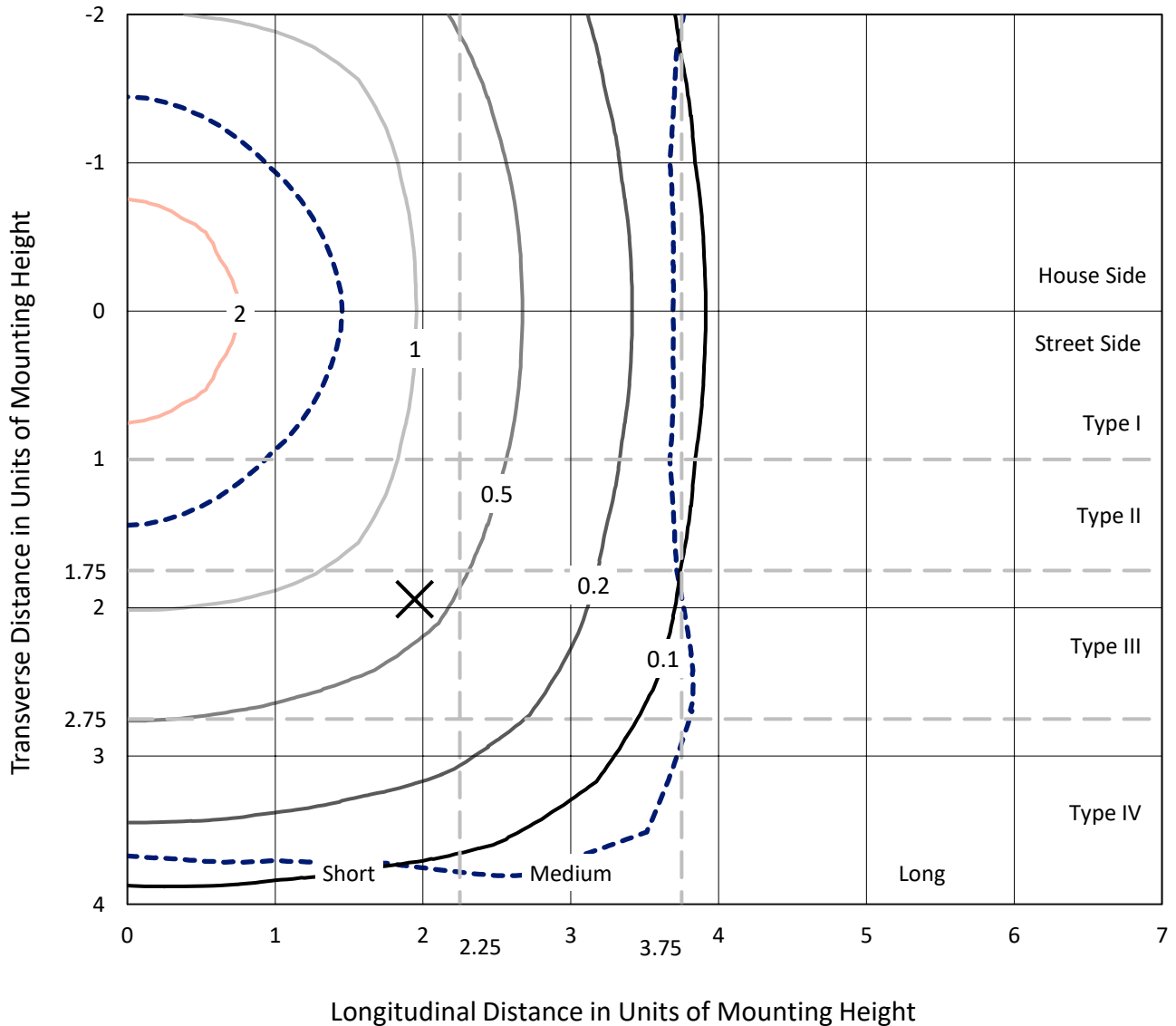
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

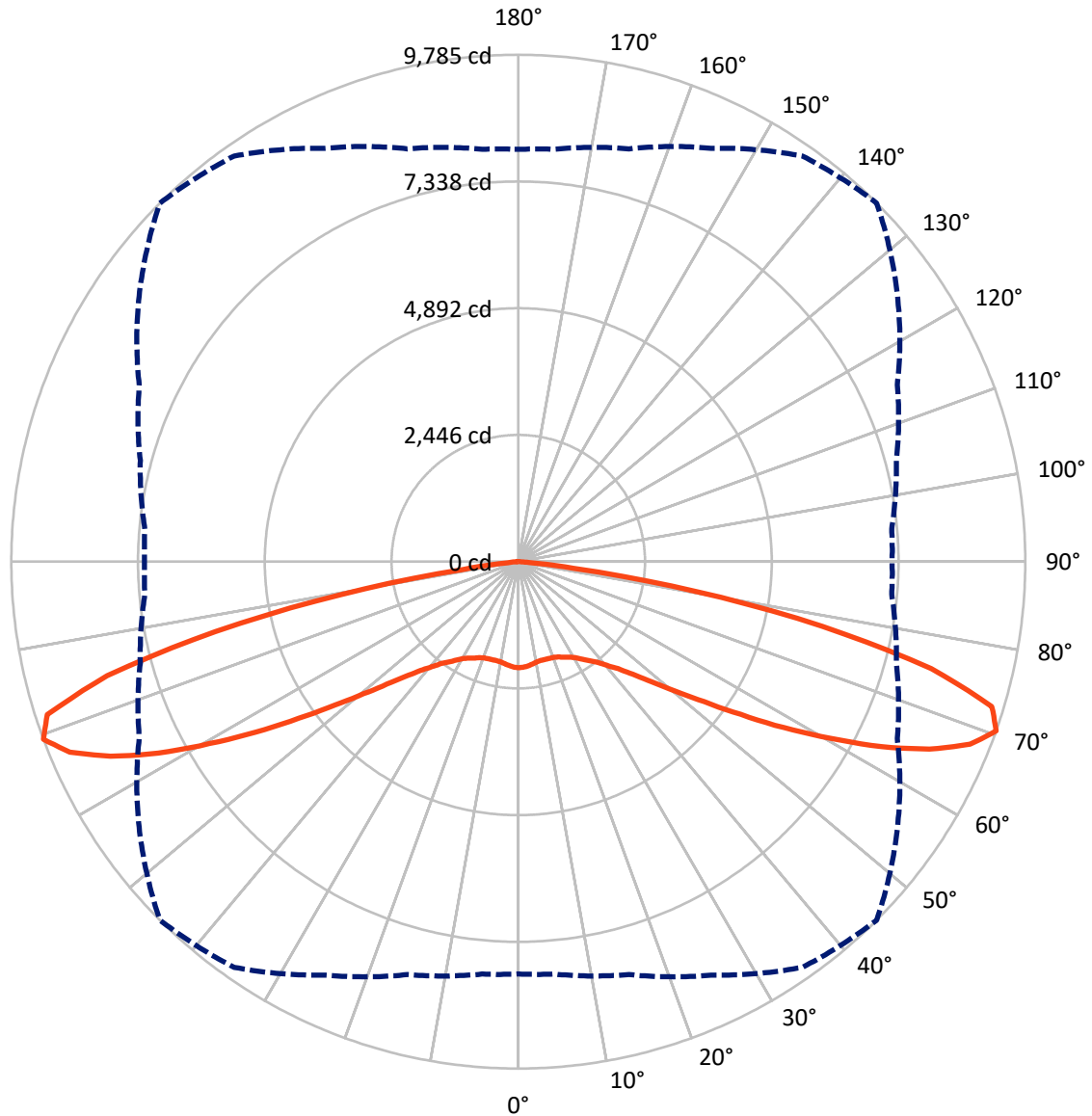
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12085.0  | 0.0    | 12085.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 12085.0  | 0.0    | 12085.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 24170.0  | 0.0    | 24170.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 191.4   | 0.8       |
| 10°-20°   | 560.2   | 2.3       |
| 20°-30°   | 954.5   | 3.9       |
| 30°-40°   | 1479.5  | 6.1       |
| 40°-50°   | 2490.2  | 10.3      |
| 50°-60°   | 4530.8  | 18.7      |
| 60°-70°   | 7670.5  | 31.7      |
| 70°-80°   | 5937.2  | 24.6      |
| 80°-90°   | 355.8   | 1.5       |
| 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°    | 24170.0 | 100.0     |
| 0°-180°   | 24170.0 | 100.0     |

**Coefficient of Utilization**



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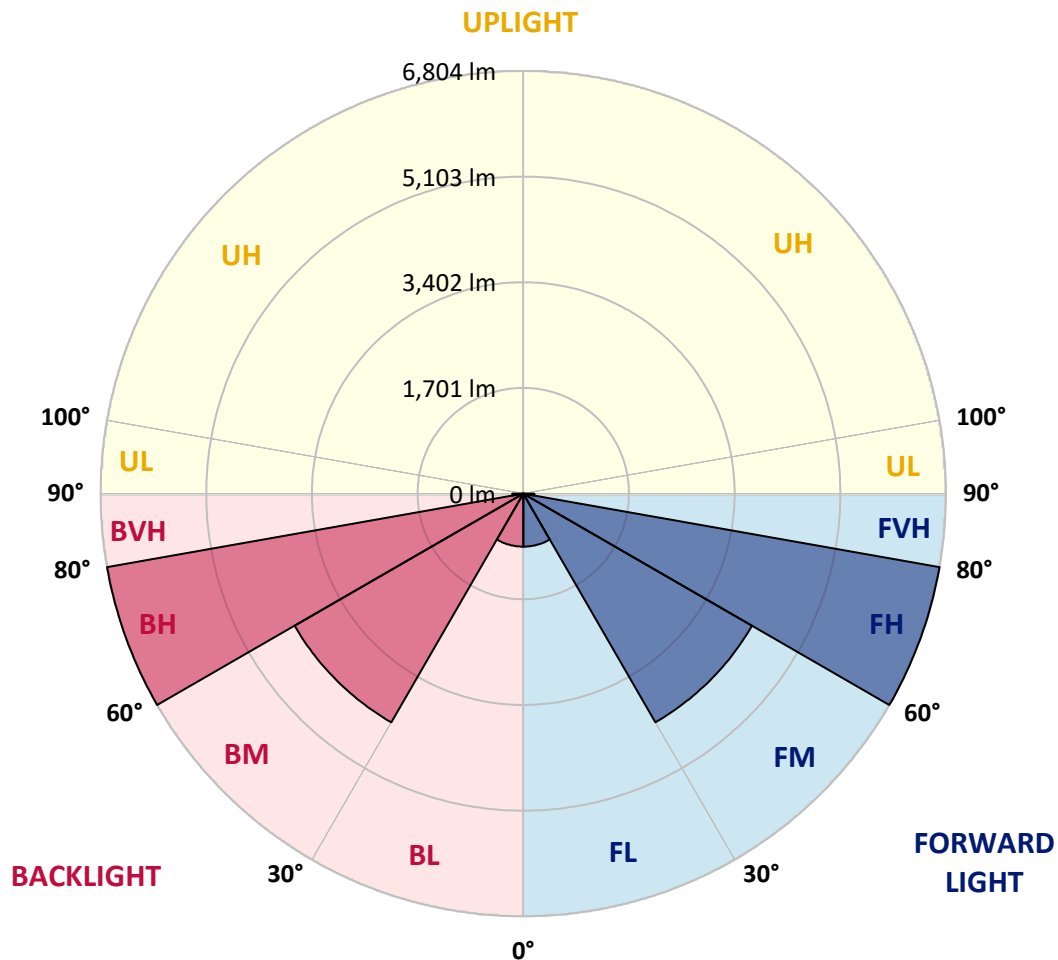
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 853.1  | 3.5       |                         |      |         |
| FM (30°-60°)   | 4250.2 | 17.6      |                         |      |         |
| FH (60°-80°)   | 6803.8 | 28.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 177.9  | 0.7       |                         |      | G2/225  |
| BL (0°-30°)    | 853.1  | 3.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 4250.2 | 17.6      | B3/5000                 |      |         |
| BH (60°-80°)   | 6803.8 | 28.1      | B5                      |      | G3/7500 |
| BVH (80°-90°)  | 177.9  | 0.7       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2046.3 | 2046.3 | 2046.3 | 2046.3 | 2046.3 | 2046.3 | 2046.3 | 2046.3 | 2046.3 | 2046.3 | 2046.3 |
| 2.5°  | 2041.2 | 2042.5 | 2042.5 | 2039.9 | 2038.6 | 2038.6 | 2037.4 | 2037.4 | 2041.2 | 2042.5 | 2043.7 |
| 5°    | 2023.3 | 2023.3 | 2023.3 | 2022.0 | 2019.5 | 2019.5 | 2016.9 | 2016.9 | 2018.2 | 2022.0 | 2019.5 |
| 7.5°  | 1999.1 | 2001.6 | 2001.6 | 1996.5 | 1992.7 | 1992.7 | 1991.4 | 1992.7 | 1993.9 | 1997.8 | 1996.5 |
| 10°   | 1991.4 | 1992.7 | 1986.3 | 1977.4 | 1971.0 | 1967.1 | 1968.4 | 1971.0 | 1977.4 | 1979.9 | 1981.2 |
| 12.5° | 1996.5 | 1996.5 | 1985.0 | 1972.2 | 1960.8 | 1955.7 | 1954.4 | 1963.3 | 1974.8 | 1982.5 | 1985.0 |
| 15°   | 2002.9 | 2000.3 | 1986.3 | 1969.7 | 1958.2 | 1956.9 | 1955.7 | 1962.0 | 1978.6 | 1993.9 | 1995.2 |
| 17.5° | 2006.7 | 2005.4 | 1987.6 | 1967.1 | 1960.8 | 1960.8 | 1959.5 | 1964.6 | 1982.5 | 2001.6 | 2002.9 |
| 20°   | 2019.5 | 2015.6 | 1995.2 | 1973.5 | 1968.4 | 1971.0 | 1967.1 | 1973.5 | 1992.7 | 2015.6 | 2020.8 |
| 22.5° | 2045.0 | 2041.2 | 2020.8 | 1999.1 | 1996.5 | 1996.5 | 1995.2 | 2001.6 | 2022.0 | 2046.3 | 2050.1 |
| 25°   | 2075.6 | 2071.8 | 2052.7 | 2037.4 | 2039.9 | 2045.0 | 2042.5 | 2043.7 | 2060.3 | 2080.8 | 2087.1 |
| 27.5° | 2116.5 | 2110.1 | 2093.5 | 2080.8 | 2088.4 | 2088.4 | 2088.4 | 2087.1 | 2097.3 | 2116.5 | 2122.9 |
| 30°   | 2166.3 | 2163.7 | 2145.9 | 2144.6 | 2151.0 | 2144.6 | 2144.6 | 2145.9 | 2147.1 | 2165.0 | 2171.4 |
| 32.5° | 2231.4 | 2226.3 | 2217.3 | 2214.8 | 2232.7 | 2237.8 | 2219.9 | 2203.3 | 2212.2 | 2230.1 | 2233.9 |
| 35°   | 2338.6 | 2331.0 | 2318.2 | 2304.1 | 2318.2 | 2342.4 | 2304.1 | 2291.4 | 2314.4 | 2338.6 | 2341.2 |
| 37.5° | 2484.1 | 2480.3 | 2459.9 | 2434.4 | 2433.1 | 2458.6 | 2419.0 | 2417.8 | 2461.2 | 2490.5 | 2494.4 |
| 40°   | 2666.7 | 2670.5 | 2645.0 | 2620.7 | 2608.0 | 2628.4 | 2597.7 | 2609.2 | 2651.4 | 2684.6 | 2682.0 |
| 42.5° | 2923.3 | 2909.2 | 2869.7 | 2846.7 | 2832.6 | 2825.0 | 2817.3 | 2835.2 | 2882.4 | 2918.2 | 2946.2 |
| 45°   | 3223.3 | 3218.1 | 3168.4 | 3140.3 | 3109.6 | 3098.2 | 3095.6 | 3127.5 | 3185.0 | 3228.4 | 3232.2 |
| 47.5° | 3562.8 | 3551.3 | 3519.4 | 3490.0 | 3478.6 | 3464.5 | 3451.8 | 3476.0 | 3533.5 | 3564.1 | 3573.0 |
| 50°   | 3912.6 | 3915.1 | 3915.1 | 3910.0 | 3921.5 | 3924.1 | 3889.6 | 3898.5 | 3930.5 | 3927.9 | 3925.3 |
| 52.5° | 4312.1 | 4326.2 | 4392.6 | 4398.9 | 4453.8 | 4490.9 | 4428.3 | 4391.3 | 4379.8 | 4310.9 | 4316.0 |
| 55°   | 4781.9 | 4794.7 | 4894.2 | 4993.8 | 5141.9 | 5204.4 | 5073.0 | 4958.1 | 4876.4 | 4771.7 | 4776.8 |
| 57.5° | 5367.8 | 5374.2 | 5468.7 | 5660.2 | 5895.0 | 6041.8 | 5810.8 | 5583.6 | 5417.6 | 5318.0 | 5278.5 |
| 60°   | 5998.4 | 6004.8 | 6142.7 | 6376.3 | 6741.4 | 6920.1 | 6634.2 | 6262.7 | 6053.3 | 5901.4 | 5911.6 |
| 62.5° | 6755.4 | 6781.0 | 6904.8 | 7226.5 | 7669.4 | 7869.8 | 7490.7 | 6994.1 | 6710.7 | 6521.8 | 6529.5 |
| 65°   | 7566.0 | 7609.4 | 7744.7 | 8098.3 | 8506.8 | 8722.6 | 8257.9 | 7684.7 | 7332.4 | 7101.4 | 7125.6 |
| 67.5° | 8092.0 | 8130.3 | 8325.6 | 8716.2 | 9225.5 | 9404.2 | 8804.3 | 8136.6 | 7696.2 | 7420.5 | 7369.4 |
| 70°   | 7957.9 | 7989.8 | 8250.2 | 8804.3 | 9558.7 | 9784.6 | 8934.5 | 8070.3 | 7552.0 | 7234.1 | 7213.7 |
| 72.5° | 7024.8 | 6958.4 | 7338.8 | 8134.1 | 9178.3 | 9557.4 | 8524.7 | 7370.7 | 6718.4 | 6391.6 | 6353.3 |
| 75°   | 4655.5 | 4799.8 | 5361.4 | 6298.4 | 7765.2 | 8234.9 | 7276.3 | 5918.0 | 5097.2 | 4825.3 | 4783.2 |
| 77.5° | 1556.1 | 1667.2 | 2166.3 | 3570.5 | 5293.8 | 5999.7 | 5301.5 | 3870.5 | 2738.2 | 2205.9 | 2216.1 |
| 80°   | 412.3  | 407.2  | 527.2  | 981.7  | 2287.6 | 3474.7 | 2662.9 | 1311.0 | 717.4  | 519.5  | 492.7  |
| 82.5° | 148.1  | 165.9  | 213.2  | 271.9  | 606.4  | 1079.9 | 762.1  | 367.6  | 269.3  | 199.1  | 192.8  |
| 85°   | 65.1   | 63.8   | 91.9   | 108.5  | 151.9  | 201.7  | 178.7  | 155.7  | 136.6  | 90.6   | 84.3   |
| 87.5° | 14.0   | 14.0   | 21.7   | 16.6   | 26.8   | 26.8   | 33.2   | 39.6   | 40.8   | 26.8   | 21.7   |
| 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)