

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: P316909

Luminaire Tested: **GAN-SA5A-827-U-5NQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316909  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5A-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17662 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 162  
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

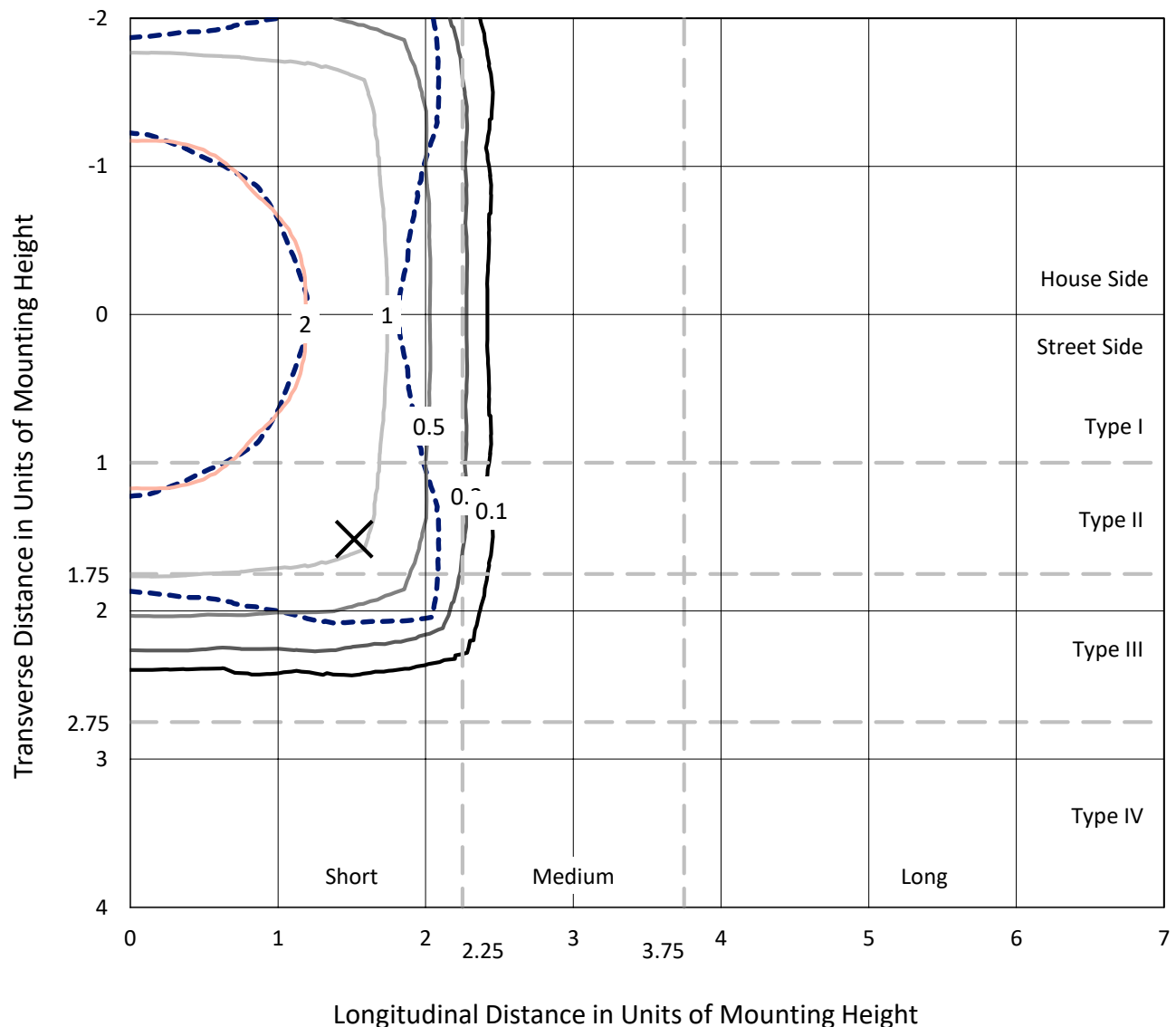


REPORT NUMBER: P316909

CATALOG NUMBER: GAN-SA5A-827-U-5NQ

## Iso-Footcandle Lines of Horizontal Illumination

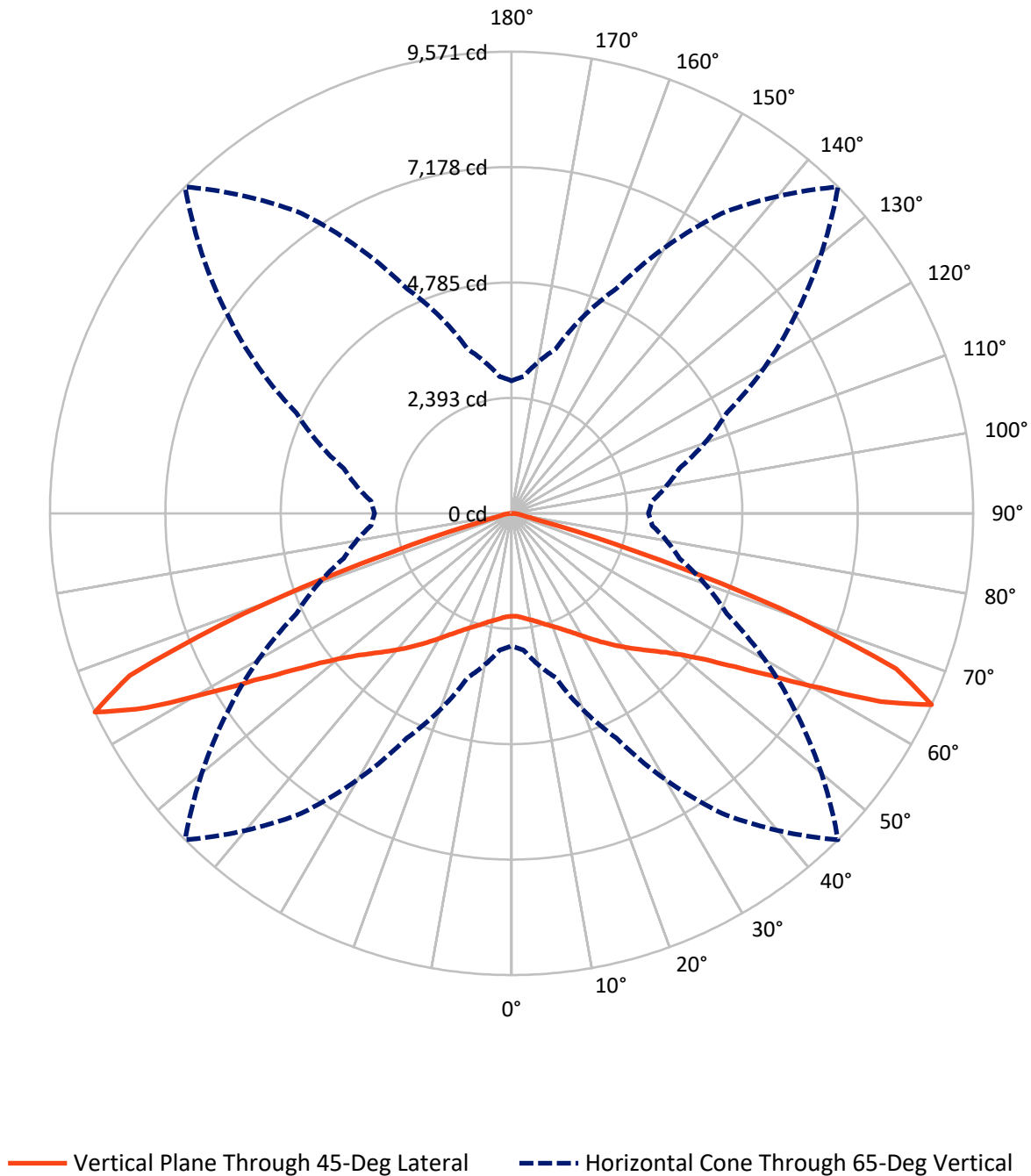
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type V - Short - N/A

REPORT NUMBER: P316909  
CATALOG NUMBER: GAN-SA5A-827-U-5NQ

## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8831.0   | 0.0    | 8831.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8831.0   | 0.0    | 8831.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 17662.0  | 0.0    | 17662.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 209.3   | 1.2       |
| 10°-20°   | 672.6   | 3.8       |
| 20°-30°   | 1262.0  | 7.1       |
| 30°-40°   | 2087.1  | 11.8      |
| 40°-50°   | 3232.6  | 18.3      |
| 50°-60°   | 4957.9  | 28.1      |
| 60°-70°   | 4626.3  | 26.2      |
| 70°-80°   | 538.4   | 3.0       |
| 80°-90°   | 75.7    | 0.4       |
| 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°    | 17662.0 | 100.0     |
| 0°-180°   | 17662.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P316909

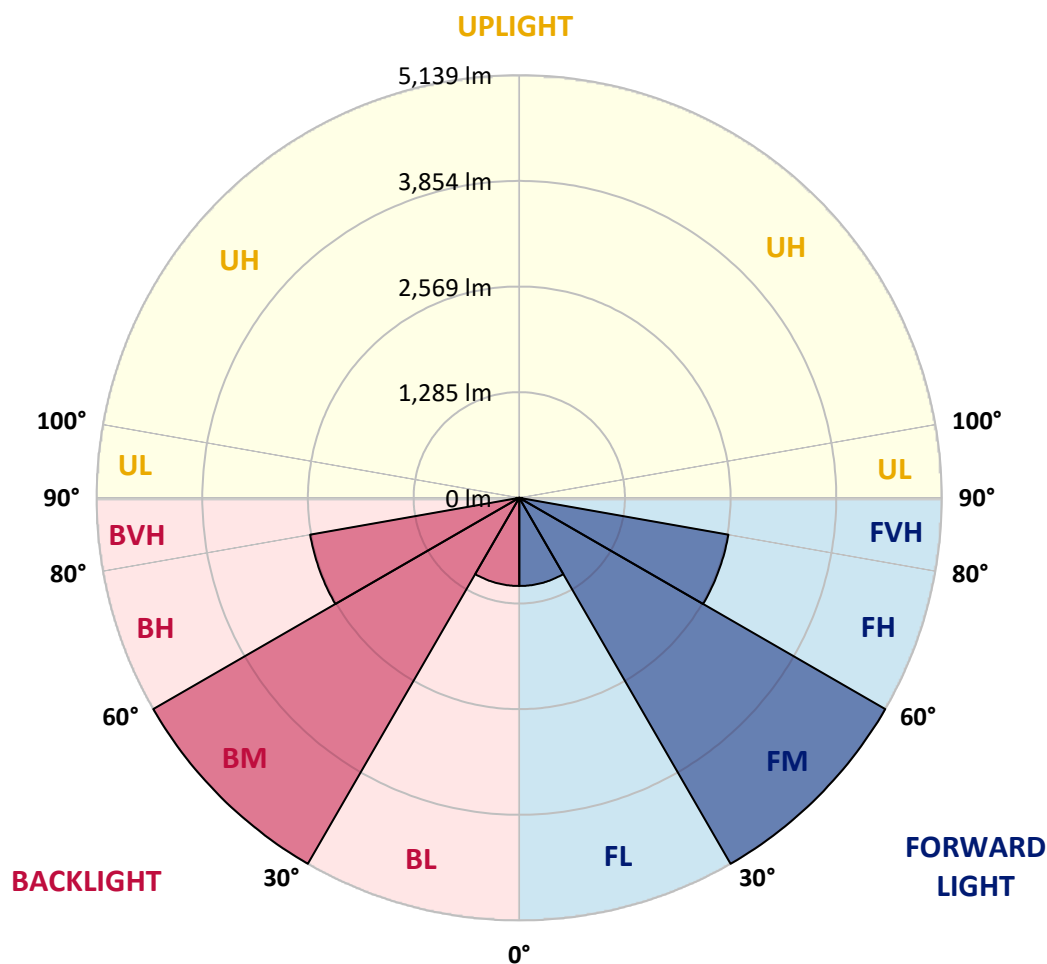
CATALOG NUMBER: GAN-SA5A-827-U-5NQ

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1072.0 | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 5138.8 | 29.1      |                         |      |         |
| FH   | (60°-80°)   | 2582.4 | 14.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 37.8   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1072.0 | 6.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5138.8 | 29.1      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 2582.4 | 14.6      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 37.8   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2132.9 | 2132.9 | 2132.9 | 2132.9 | 2132.9 | 2132.9 | 2132.9 | 2132.9 | 2132.9 | 2132.9 | 2132.9 |
| 2.5°  | 2139.9 | 2138.8 | 2139.9 | 2140.5 | 2137.0 | 2138.8 | 2138.2 | 2141.1 | 2142.3 | 2141.1 | 2141.1 |
| 5°    | 2164.6 | 2162.8 | 2165.2 | 2168.1 | 2163.4 | 2164.6 | 2162.8 | 2166.3 | 2167.5 | 2165.2 | 2166.9 |
| 7.5°  | 2198.6 | 2199.2 | 2201.5 | 2206.8 | 2203.9 | 2206.2 | 2202.7 | 2203.3 | 2202.7 | 2199.2 | 2199.7 |
| 10°   | 2235.5 | 2236.1 | 2240.2 | 2247.2 | 2248.4 | 2248.4 | 2246.1 | 2244.3 | 2242.0 | 2239.6 | 2240.2 |
| 12.5° | 2280.1 | 2283.0 | 2285.9 | 2294.7 | 2294.7 | 2299.4 | 2298.2 | 2293.6 | 2289.4 | 2285.9 | 2285.9 |
| 15°   | 2340.5 | 2339.9 | 2343.4 | 2352.2 | 2356.3 | 2363.9 | 2363.9 | 2357.5 | 2352.2 | 2348.7 | 2347.5 |
| 17.5° | 2403.8 | 2405.5 | 2407.9 | 2418.4 | 2424.9 | 2433.7 | 2434.8 | 2429.6 | 2426.1 | 2421.4 | 2418.4 |
| 20°   | 2477.6 | 2480.6 | 2490.0 | 2494.1 | 2499.9 | 2508.1 | 2511.1 | 2509.9 | 2506.4 | 2504.0 | 2504.6 |
| 22.5° | 2563.8 | 2571.5 | 2577.3 | 2583.2 | 2590.2 | 2596.1 | 2599.0 | 2603.1 | 2599.6 | 2597.8 | 2596.7 |
| 25°   | 2668.2 | 2673.5 | 2685.2 | 2695.7 | 2700.4 | 2702.2 | 2705.7 | 2711.6 | 2711.0 | 2706.9 | 2706.9 |
| 27.5° | 2786.6 | 2796.6 | 2811.2 | 2826.5 | 2826.5 | 2820.6 | 2832.3 | 2842.3 | 2838.8 | 2833.5 | 2826.5 |
| 30°   | 2930.3 | 2939.6 | 2956.6 | 2977.7 | 2967.2 | 2963.1 | 2978.9 | 2997.1 | 2991.8 | 2983.0 | 2981.9 |
| 32.5° | 3085.0 | 3093.8 | 3116.1 | 3139.0 | 3125.5 | 3119.6 | 3136.6 | 3163.0 | 3153.6 | 3136.0 | 3125.5 |
| 35°   | 3252.7 | 3261.5 | 3293.2 | 3320.7 | 3297.9 | 3287.9 | 3302.0 | 3330.7 | 3314.3 | 3281.4 | 3273.2 |
| 37.5° | 3435.1 | 3439.7 | 3480.8 | 3508.9 | 3493.1 | 3466.7 | 3484.3 | 3505.4 | 3491.3 | 3451.5 | 3435.6 |
| 40°   | 3624.4 | 3641.4 | 3688.9 | 3721.7 | 3694.2 | 3652.6 | 3681.9 | 3711.2 | 3690.1 | 3639.1 | 3612.1 |
| 42.5° | 3845.5 | 3858.4 | 3921.7 | 3951.0 | 3906.4 | 3847.8 | 3887.7 | 3927.5 | 3906.4 | 3857.2 | 3833.7 |
| 45°   | 4075.3 | 4095.2 | 4170.8 | 4200.2 | 4135.7 | 4061.2 | 4109.9 | 4179.6 | 4177.9 | 4106.9 | 4082.3 |
| 47.5° | 4325.6 | 4345.6 | 4435.8 | 4474.5 | 4404.8 | 4305.1 | 4373.7 | 4472.2 | 4465.2 | 4387.2 | 4367.2 |
| 50°   | 4614.7 | 4635.8 | 4748.3 | 4797.0 | 4731.9 | 4615.8 | 4719.0 | 4805.8 | 4792.9 | 4696.7 | 4698.5 |
| 52.5° | 4977.6 | 4976.4 | 5116.5 | 5200.9 | 5134.1 | 5031.5 | 5126.5 | 5210.9 | 5157.6 | 5024.5 | 5020.4 |
| 55°   | 5295.3 | 5314.7 | 5488.2 | 5648.3 | 5644.2 | 5604.9 | 5643.0 | 5646.5 | 5494.1 | 5317.0 | 5295.3 |
| 57.5° | 5504.1 | 5541.0 | 5785.5 | 6075.1 | 6292.0 | 6344.2 | 6270.3 | 6046.4 | 5689.3 | 5406.1 | 5371.6 |
| 60°   | 5375.7 | 5431.9 | 5816.0 | 6406.4 | 7045.4 | 7352.0 | 6935.2 | 6240.4 | 5537.5 | 5142.9 | 5096.0 |
| 62.5° | 4509.1 | 4604.1 | 5166.4 | 6246.3 | 7693.8 | 8590.3 | 7417.1 | 5929.1 | 4933.6 | 4390.1 | 4309.8 |
| 65°   | 2746.2 | 2846.4 | 3524.2 | 5141.1 | 7588.9 | 9570.5 | 7197.3 | 4921.3 | 3601.0 | 2925.0 | 2838.2 |
| 67.5° | 915.2  | 944.5  | 1343.8 | 2841.7 | 5964.3 | 8599.1 | 5974.3 | 2946.1 | 1567.1 | 1038.9 | 1008.4 |
| 70°   | 358.2  | 361.2  | 426.2  | 823.7  | 2816.5 | 5906.2 | 3107.9 | 838.4  | 445.6  | 352.4  | 360.0  |
| 72.5° | 263.2  | 264.4  | 282.6  | 344.2  | 734.0  | 2601.9 | 760.4  | 345.9  | 275.0  | 246.8  | 246.8  |
| 75°   | 211.6  | 211.6  | 224.5  | 250.9  | 328.9  | 596.8  | 333.6  | 248.0  | 215.2  | 197.0  | 194.6  |
| 77.5° | 167.1  | 170.6  | 180.6  | 197.6  | 222.8  | 287.3  | 231.0  | 196.4  | 173.5  | 156.5  | 153.0  |
| 80°   | 124.3  | 127.8  | 144.2  | 152.4  | 160.1  | 199.3  | 170.6  | 153.6  | 137.2  | 117.3  | 113.7  |
| 82.5° | 81.5   | 85.0   | 105.5  | 110.2  | 108.5  | 130.2  | 114.9  | 113.2  | 100.8  | 75.6   | 72.1   |
| 85°   | 53.4   | 54.5   | 70.4   | 73.3   | 67.4   | 59.2   | 73.3   | 77.4   | 70.4   | 49.2   | 47.5   |
| 87.5° | 25.2   | 25.2   | 35.8   | 33.4   | 30.5   | 24.6   | 33.4   | 39.3   | 39.9   | 24.0   | 23.5   |
| 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)