

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: P317029

Luminaire Tested: **GAN-SA5A-727-U-RW**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P317029  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5A-727-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 19910 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

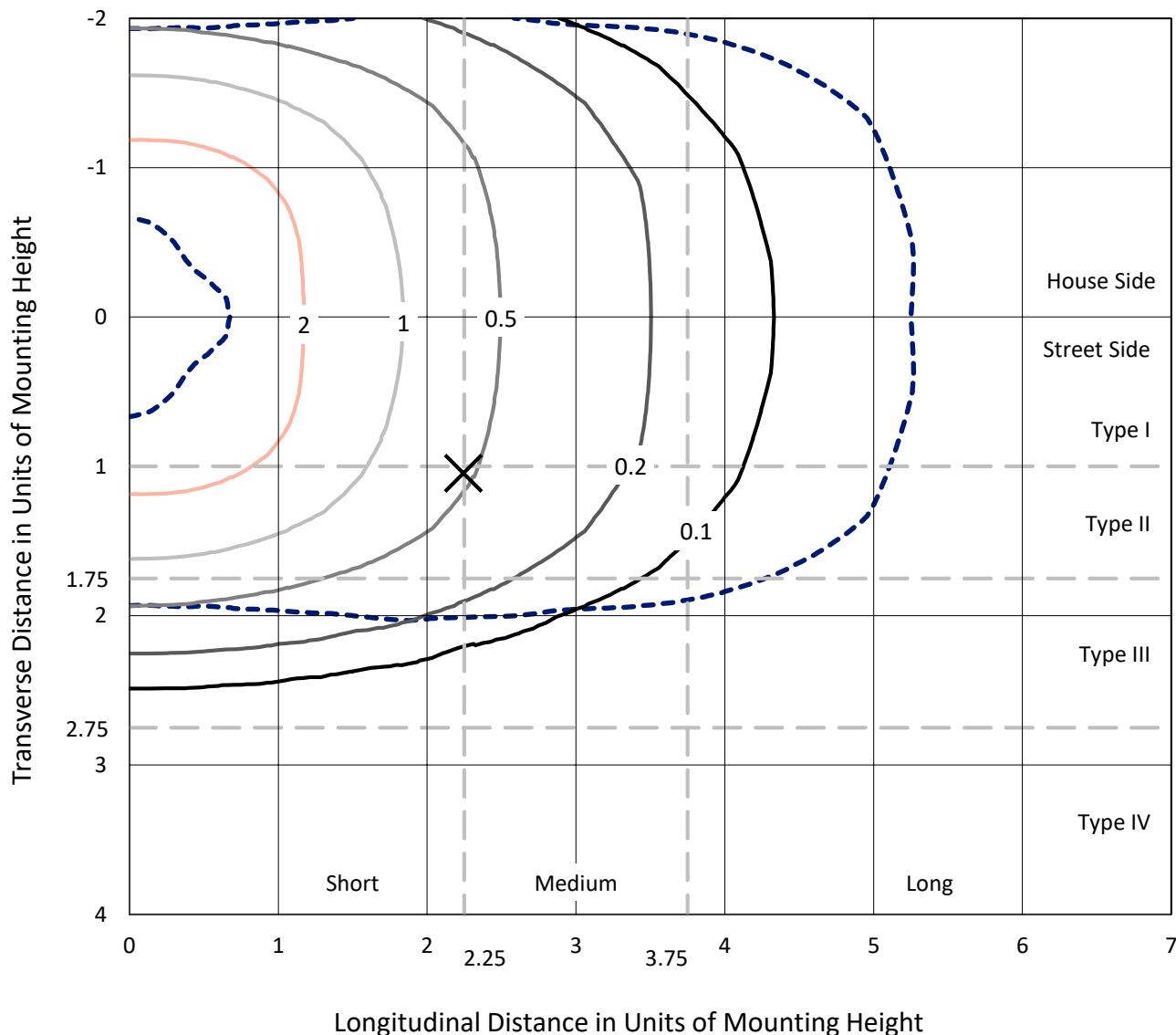
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

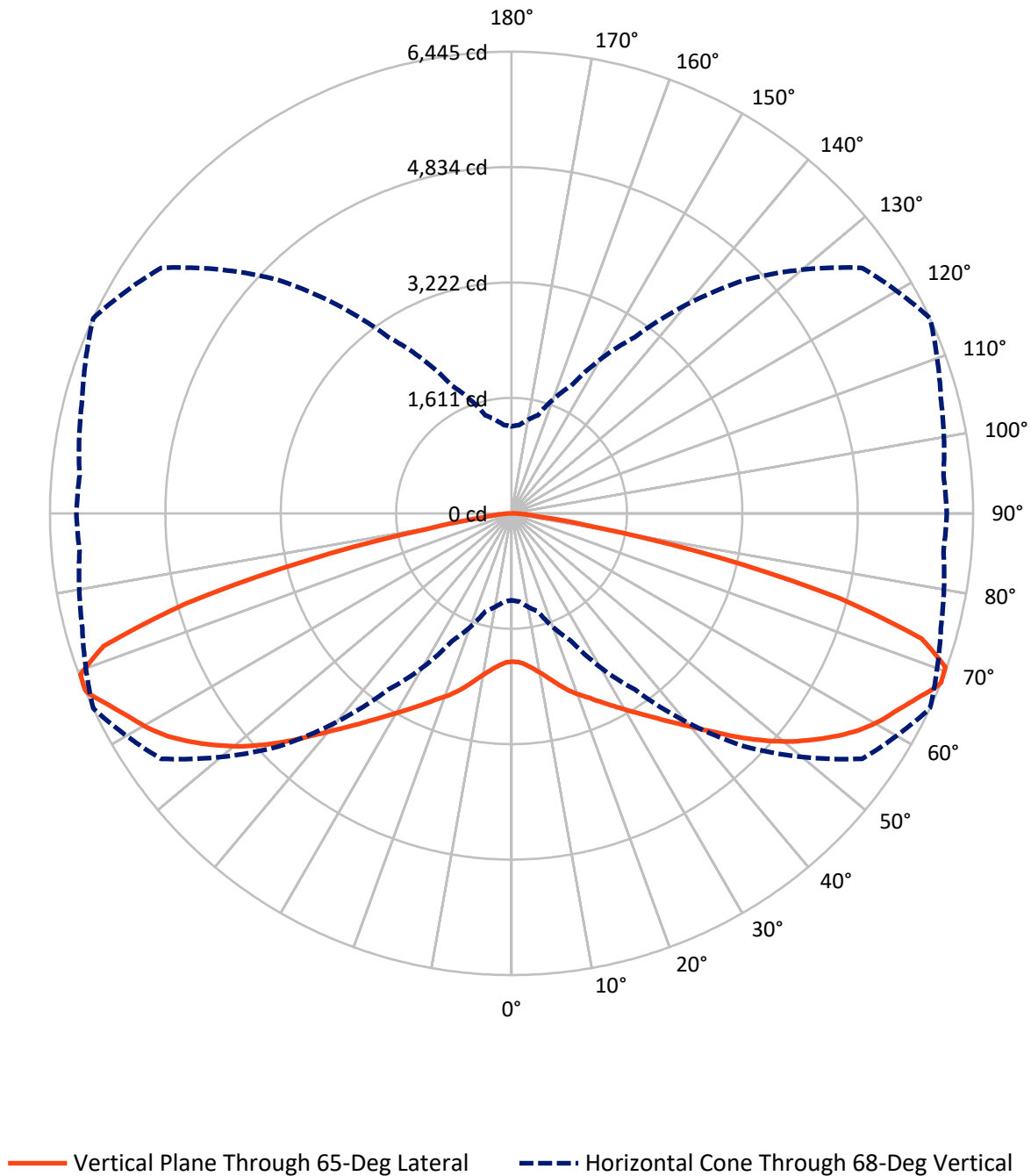
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9955.0   | 0.0    | 9955.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 9955.0   | 0.0    | 9955.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 19910.0  | 0.0    | 19910.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 202.7   | 1.0       |
| 10°-20°   | 678.7   | 3.4       |
| 20°-30°   | 1323.2  | 6.6       |
| 30°-40°   | 2222.9  | 11.2      |
| 40°-50°   | 3502.6  | 17.6      |
| 50°-60°   | 4684.1  | 23.5      |
| 60°-70°   | 4553.5  | 22.9      |
| 70°-80°   | 2489.2  | 12.5      |
| 80°-90°   | 253.2   | 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°    | 19910.0 | 100.0     |
| 0°-180°   | 19910.0 | 100.0     |

**Coefficient of Utilization**



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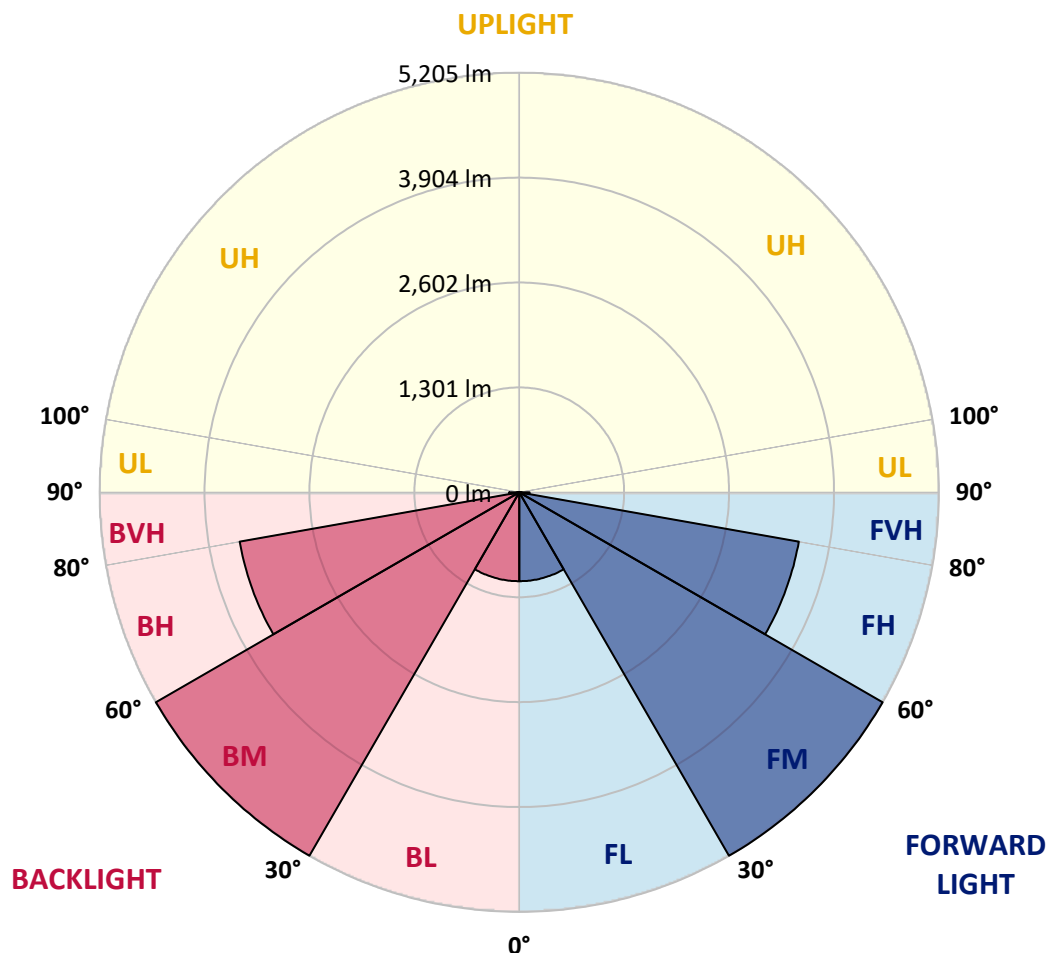
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1102.3 | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 5204.8 | 26.1      |                         |      |         |
| FH   | (60°-80°)   | 3521.3 | 17.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 126.6  | 0.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1102.3 | 5.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5204.8 | 26.1      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3521.3 | 17.7      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 126.6  | 0.6       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2070.2 | 2070.2 | 2070.2 | 2070.2 | 2070.2 | 2070.2 | 2070.2 | 2070.2 | 2070.2 | 2070.2 | 2070.2 |
| 2.5°  | 2055.5 | 2056.2 | 2059.5 | 2063.5 | 2066.8 | 2075.5 | 2077.5 | 2080.9 | 2082.2 | 2085.5 | 2085.5 |
| 5°    | 2037.5 | 2038.8 | 2046.8 | 2057.5 | 2069.5 | 2090.9 | 2106.2 | 2123.6 | 2132.3 | 2141.6 | 2140.9 |
| 7.5°  | 2035.5 | 2038.8 | 2050.1 | 2067.5 | 2087.5 | 2122.9 | 2155.0 | 2189.7 | 2213.0 | 2234.4 | 2233.1 |
| 10°   | 2056.2 | 2061.5 | 2077.5 | 2103.6 | 2133.6 | 2177.7 | 2225.1 | 2271.8 | 2312.5 | 2345.2 | 2346.6 |
| 12.5° | 2087.5 | 2094.2 | 2119.6 | 2159.0 | 2204.4 | 2261.1 | 2317.2 | 2369.9 | 2426.0 | 2474.7 | 2478.7 |
| 15°   | 2128.9 | 2137.6 | 2175.6 | 2234.4 | 2303.8 | 2371.3 | 2431.3 | 2485.4 | 2550.2 | 2617.6 | 2624.3 |
| 17.5° | 2190.3 | 2202.4 | 2252.4 | 2331.9 | 2423.3 | 2497.4 | 2560.2 | 2600.9 | 2655.0 | 2724.4 | 2737.1 |
| 20°   | 2283.8 | 2299.2 | 2362.6 | 2457.4 | 2568.9 | 2646.3 | 2694.4 | 2703.0 | 2729.7 | 2791.8 | 2806.5 |
| 22.5° | 2405.3 | 2418.6 | 2489.4 | 2602.2 | 2727.1 | 2811.2 | 2836.6 | 2801.8 | 2799.2 | 2849.2 | 2863.3 |
| 25°   | 2540.8 | 2552.8 | 2634.9 | 2761.8 | 2896.0 | 2988.8 | 2988.1 | 2920.7 | 2873.9 | 2912.7 | 2927.3 |
| 27.5° | 2693.0 | 2711.7 | 2790.5 | 2924.0 | 3067.5 | 3159.0 | 3153.7 | 3049.5 | 2960.7 | 2970.7 | 2983.4 |
| 30°   | 2867.9 | 2888.6 | 2965.4 | 3100.9 | 3244.4 | 3333.9 | 3327.2 | 3189.7 | 3056.2 | 3029.5 | 3038.8 |
| 32.5° | 3084.9 | 3109.6 | 3182.4 | 3315.9 | 3442.7 | 3523.5 | 3504.1 | 3341.9 | 3171.0 | 3112.9 | 3121.6 |
| 35°   | 3345.9 | 3360.6 | 3437.4 | 3568.9 | 3671.7 | 3727.1 | 3686.4 | 3518.2 | 3316.5 | 3246.5 | 3246.5 |
| 37.5° | 3610.3 | 3621.6 | 3707.7 | 3835.3 | 3934.7 | 3964.1 | 3884.7 | 3711.1 | 3506.8 | 3407.3 | 3409.3 |
| 40°   | 3864.0 | 3894.7 | 3991.5 | 4122.3 | 4220.5 | 4228.5 | 4123.0 | 3931.4 | 3718.4 | 3615.6 | 3627.6 |
| 42.5° | 4129.0 | 4159.0 | 4274.5 | 4422.7 | 4509.5 | 4522.9 | 4399.4 | 4178.4 | 3957.4 | 3874.0 | 3887.3 |
| 45°   | 4365.3 | 4389.4 | 4522.9 | 4695.1 | 4803.3 | 4838.0 | 4691.8 | 4461.4 | 4215.8 | 4134.3 | 4137.7 |
| 47.5° | 4530.2 | 4561.6 | 4708.5 | 4911.4 | 5068.9 | 5122.4 | 4978.8 | 4737.2 | 4470.1 | 4371.3 | 4380.0 |
| 50°   | 4679.7 | 4696.4 | 4845.3 | 5066.9 | 5267.2 | 5377.4 | 5254.5 | 5009.5 | 4727.1 | 4622.3 | 4631.7 |
| 52.5° | 4763.2 | 4784.6 | 4928.8 | 5159.7 | 5396.7 | 5574.3 | 5499.5 | 5254.5 | 4975.5 | 4873.3 | 4884.7 |
| 55°   | 4705.1 | 4721.1 | 4894.0 | 5180.4 | 5476.8 | 5695.8 | 5707.2 | 5494.2 | 5219.2 | 5129.7 | 5161.7 |
| 57.5° | 4440.8 | 4460.8 | 4671.7 | 5046.9 | 5486.9 | 5777.9 | 5863.4 | 5716.5 | 5446.8 | 5374.0 | 5392.7 |
| 60°   | 4027.5 | 4040.2 | 4265.2 | 4687.1 | 5291.9 | 5812.0 | 5962.8 | 5898.1 | 5669.8 | 5597.0 | 5622.4 |
| 62.5° | 3291.2 | 3309.9 | 3578.9 | 4144.3 | 4880.0 | 5711.2 | 6059.0 | 6048.3 | 5877.4 | 5810.6 | 5833.3 |
| 65°   | 2249.8 | 2282.5 | 2580.2 | 3295.2 | 4245.2 | 5402.7 | 6146.4 | 6223.2 | 6061.0 | 5976.9 | 6006.9 |
| 67.5° | 1358.5 | 1382.6 | 1598.2 | 2175.6 | 3248.5 | 4780.6 | 6056.3 | 6422.1 | 6190.5 | 6055.0 | 6079.7 |
| 68°   | 1214.3 | 1236.4 | 1416.6 | 1963.4 | 3004.8 | 4605.0 | 5974.2 | 6444.8 | 6204.5 | 6053.6 | 6075.7 |
| 70°   | 733.7  | 748.4  | 869.2  | 1213.7 | 2003.4 | 3653.0 | 5414.1 | 6426.1 | 6294.0 | 6072.3 | 6085.0 |
| 72.5° | 478.0  | 482.7  | 502.7  | 622.9  | 1023.4 | 2042.8 | 4063.6 | 5988.2 | 6428.1 | 6181.1 | 6179.1 |
| 75°   | 397.2  | 394.5  | 396.5  | 410.6  | 504.7  | 895.9  | 2374.6 | 4730.5 | 6127.7 | 6009.6 | 5967.5 |
| 77.5° | 335.8  | 333.8  | 333.1  | 333.8  | 337.8  | 432.6  | 1030.7 | 2946.7 | 4689.1 | 5316.0 | 5353.3 |
| 80°   | 271.7  | 269.0  | 277.7  | 273.7  | 261.7  | 269.0  | 431.9  | 1225.7 | 2210.4 | 2377.9 | 2228.4 |
| 82.5° | 197.6  | 187.6  | 225.0  | 214.3  | 204.3  | 189.6  | 238.3  | 395.9  | 527.4  | 361.8  | 254.3  |
| 85°   | 152.2  | 141.5  | 170.9  | 164.2  | 140.2  | 96.8   | 141.5  | 193.6  | 213.6  | 122.2  | 96.1   |
| 87.5° | 62.1   | 65.4   | 123.5  | 97.5   | 82.1   | 46.7   | 58.1   | 77.4   | 104.1  | 52.1   | 40.1   |
| 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)