

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: P316329

Luminaire Tested: **GAN-SA5C-830-U-5WQ**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P316329  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5C-830-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 29589 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 279  
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

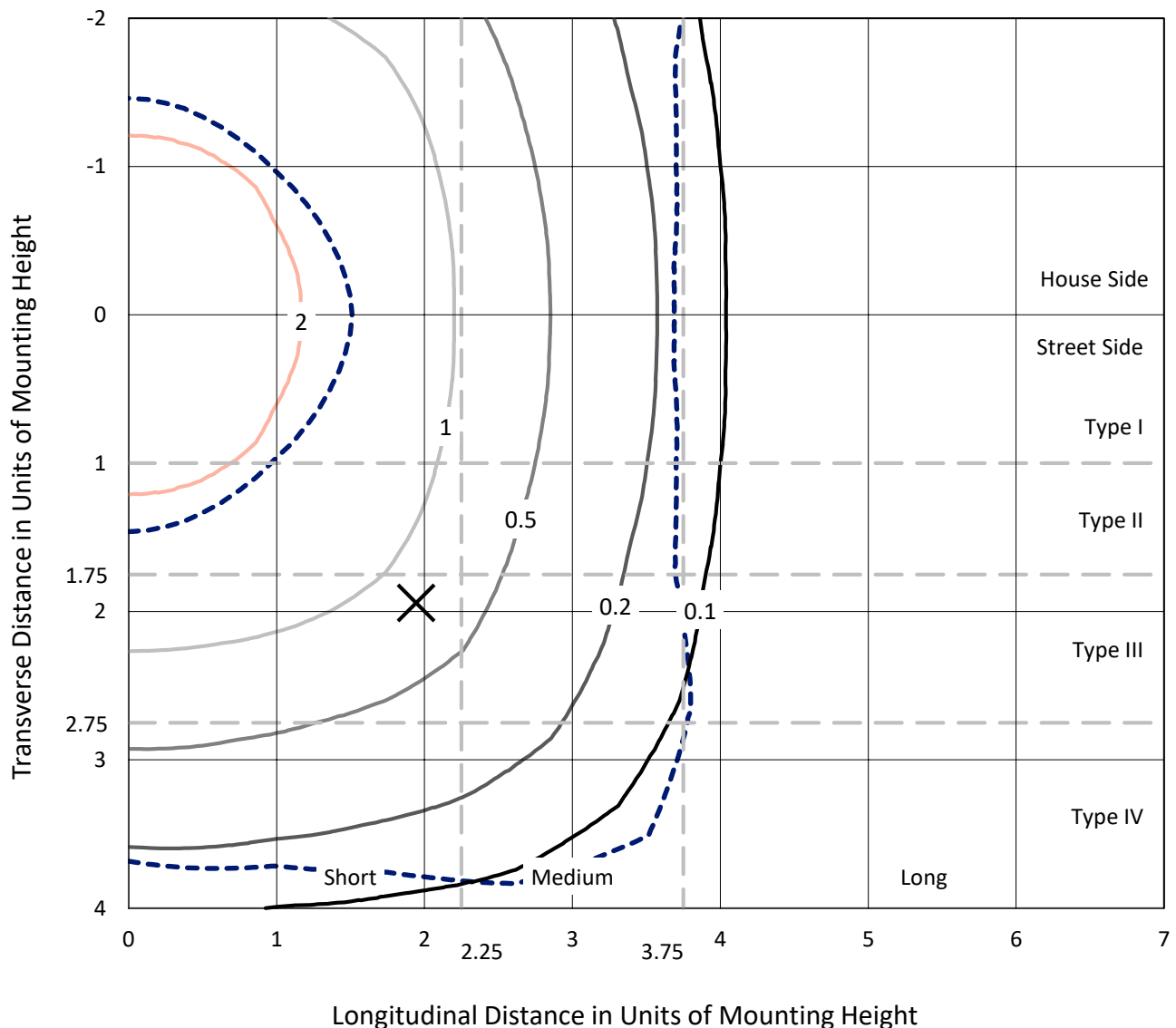


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## Iso-Footcandle Lines of Horizontal Illumination

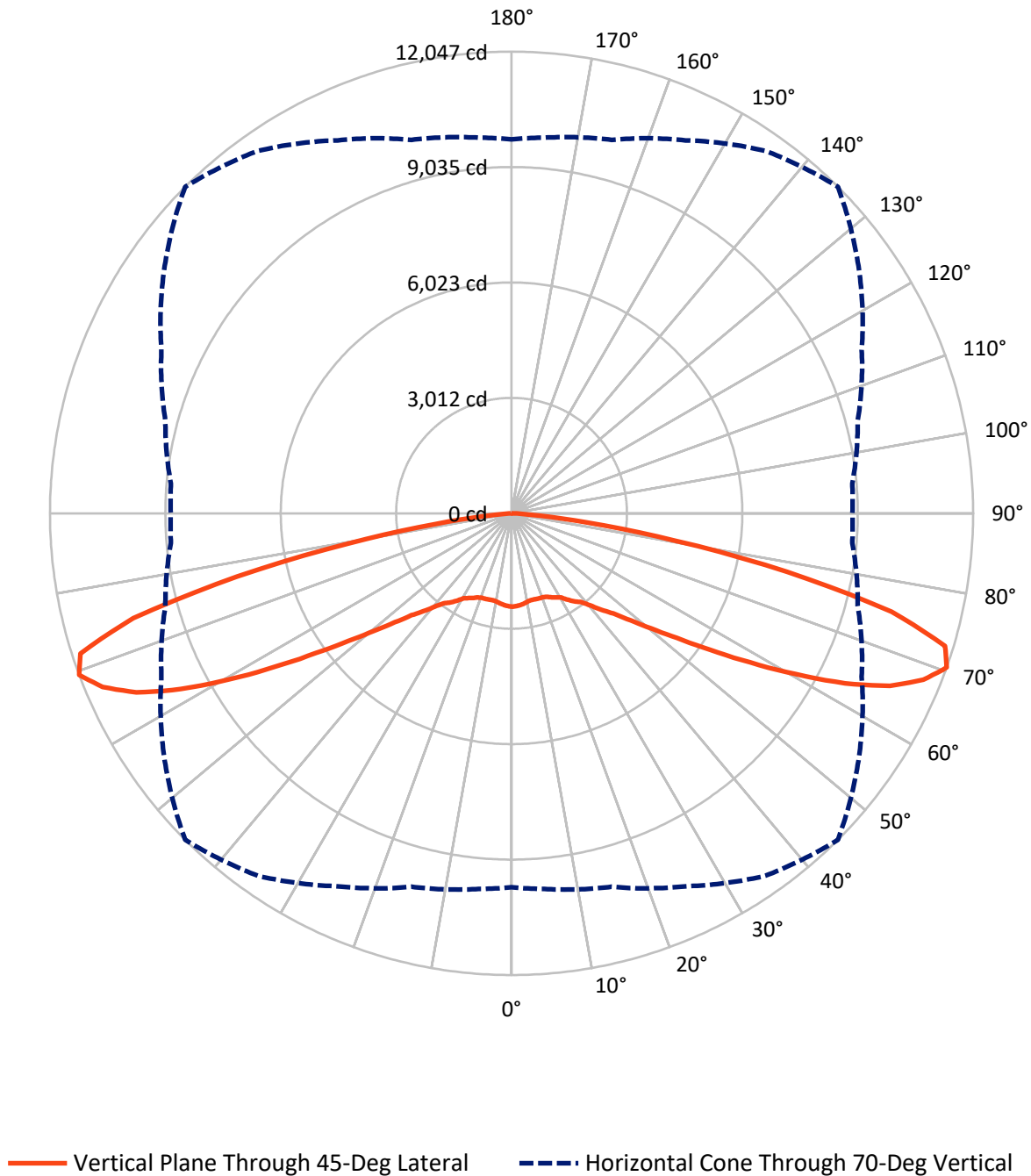
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
Type V - 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    | 14794.5  | 0.0    | 14794.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 14794.5  | 0.0    | 14794.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 29589.0  | 0.0    | 29589.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 227.3   | 0.8       |
| 10°-20°   | 663.9   | 2.2       |
| 20°-30°   | 1131.9  | 3.8       |
| 30°-40°   | 1768.7  | 6.0       |
| 40°-50°   | 2997.5  | 10.1      |
| 50°-60°   | 5466.2  | 18.5      |
| 60°-70°   | 9410.4  | 31.8      |
| 70°-80°   | 7376.2  | 24.9      |
| 80°-90°   | 546.9   | 1.8       |
| 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°    | 29589.0 | 100.0     |
| 0°-180°   | 29589.0 | 100.0     |

**Coefficient of Utilization**



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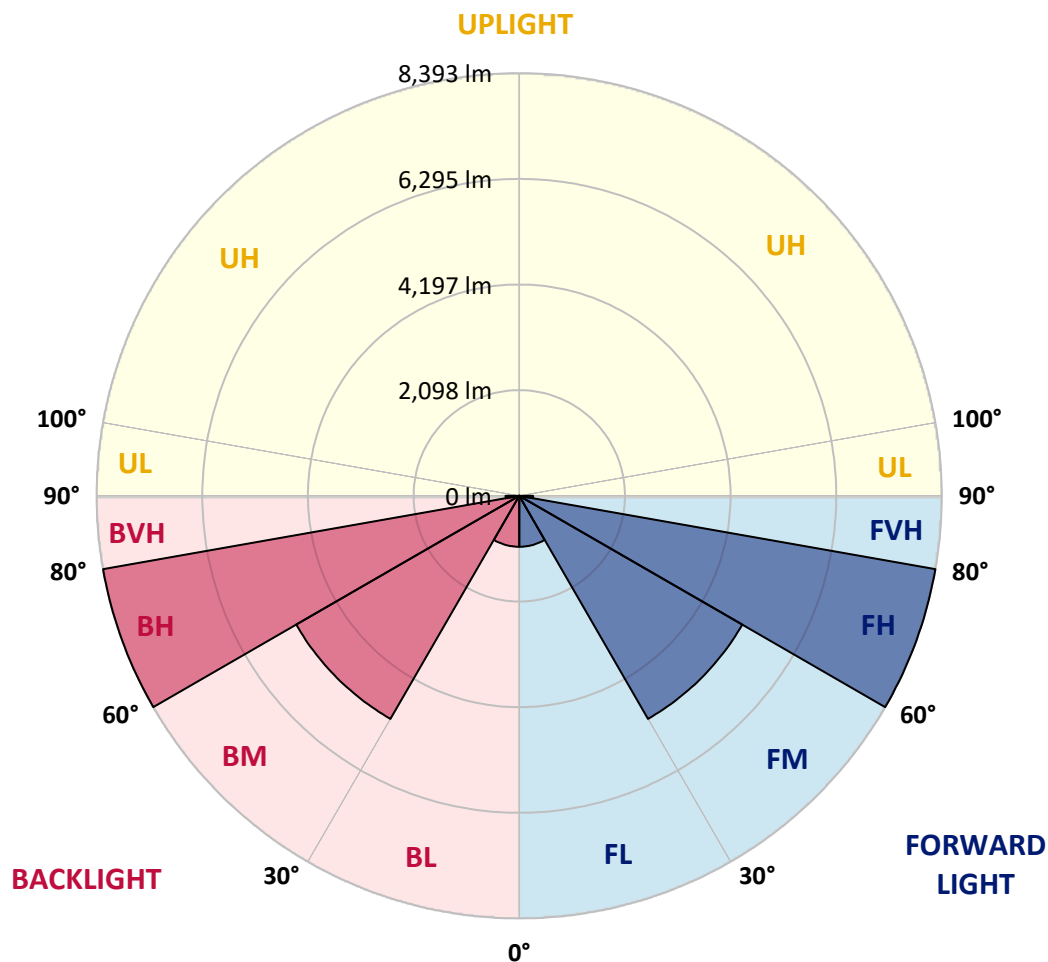
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1011.6 | 3.4       |                         |      |          |
| FM   | (30°-60°)   | 5116.2 | 17.3      |                         |      |          |
| FH   | (60°-80°)   | 8393.3 | 28.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 273.5  | 0.9       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1011.6 | 3.4       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 5116.2 | 17.3      | B4/8500                 |      |          |
| BH   | (60°-80°)   | 8393.3 | 28.4      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 273.5  | 0.9       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°    | 85°    | 90°    |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0°    | 2435.2 | 2435.2 | 2435.2  | 2435.2  | 2435.2  | 2435.2  | 2435.2  | 2435.2  | 2435.2 | 2435.2 | 2435.2 |
| 2.5°  | 2424.4 | 2427.3 | 2424.4  | 2426.4  | 2421.5  | 2423.4  | 2423.4  | 2423.4  | 2422.5 | 2423.4 | 2421.5 |
| 5°    | 2402.9 | 2404.8 | 2400.9  | 2402.9  | 2399.9  | 2402.9  | 2403.9  | 2402.9  | 2400.9 | 2401.9 | 2398.0 |
| 7.5°  | 2370.6 | 2372.5 | 2369.6  | 2372.5  | 2368.6  | 2373.5  | 2372.5  | 2369.6  | 2366.7 | 2366.7 | 2362.7 |
| 10°   | 2353.0 | 2353.9 | 2346.1  | 2343.2  | 2334.4  | 2336.3  | 2339.3  | 2342.2  | 2345.1 | 2351.0 | 2350.0 |
| 12.5° | 2353.9 | 2353.9 | 2342.2  | 2329.5  | 2316.7  | 2319.7  | 2324.6  | 2335.3  | 2347.1 | 2357.9 | 2358.8 |
| 15°   | 2363.7 | 2362.7 | 2345.1  | 2324.6  | 2315.8  | 2324.6  | 2327.5  | 2334.4  | 2353.0 | 2371.6 | 2372.5 |
| 17.5° | 2370.6 | 2370.6 | 2343.2  | 2319.7  | 2318.7  | 2332.4  | 2331.4  | 2334.4  | 2354.9 | 2382.3 | 2383.3 |
| 20°   | 2383.3 | 2383.3 | 2348.1  | 2322.6  | 2322.6  | 2337.3  | 2338.3  | 2343.2  | 2363.7 | 2394.1 | 2399.0 |
| 22.5° | 2411.7 | 2412.7 | 2375.5  | 2354.9  | 2356.9  | 2365.7  | 2368.6  | 2376.5  | 2395.0 | 2428.3 | 2434.2 |
| 25°   | 2451.8 | 2453.8 | 2415.6  | 2403.9  | 2410.7  | 2427.3  | 2425.4  | 2431.3  | 2451.8 | 2484.1 | 2490.0 |
| 27.5° | 2507.6 | 2502.7 | 2467.5  | 2462.6  | 2469.4  | 2481.2  | 2480.2  | 2481.2  | 2497.8 | 2527.2 | 2534.0 |
| 30°   | 2580.0 | 2578.1 | 2552.6  | 2555.6  | 2552.6  | 2548.7  | 2549.7  | 2557.5  | 2566.3 | 2589.8 | 2596.7 |
| 32.5° | 2650.5 | 2652.5 | 2636.8  | 2651.5  | 2673.0  | 2687.7  | 2665.2  | 2643.7  | 2633.9 | 2646.6 | 2652.5 |
| 35°   | 2777.7 | 2782.6 | 2758.2  | 2748.4  | 2777.7  | 2820.8  | 2757.2  | 2722.0  | 2741.5 | 2758.2 | 2763.1 |
| 37.5° | 2994.1 | 2997.0 | 2955.9  | 2916.7  | 2895.2  | 2936.3  | 2872.7  | 2875.6  | 2944.1 | 2975.5 | 2974.5 |
| 40°   | 3240.7 | 3241.7 | 3214.3  | 3180.0  | 3142.8  | 3152.6  | 3127.2  | 3135.0  | 3180.0 | 3208.4 | 3216.2 |
| 42.5° | 3534.3 | 3531.4 | 3488.3  | 3439.4  | 3428.6  | 3438.4  | 3395.4  | 3389.5  | 3441.4 | 3492.2 | 3493.2 |
| 45°   | 3915.1 | 3908.2 | 3852.4  | 3798.6  | 3746.7  | 3725.2  | 3714.4  | 3742.8  | 3814.3 | 3861.2 | 3862.2 |
| 47.5° | 4325.2 | 4306.6 | 4277.2  | 4234.2  | 4189.1  | 4167.6  | 4150.0  | 4163.7  | 4215.6 | 4234.2 | 4236.1 |
| 50°   | 4747.0 | 4750.9 | 4756.8  | 4740.2  | 4723.5  | 4716.7  | 4670.7  | 4644.3  | 4659.9 | 4625.7 | 4620.8 |
| 52.5° | 5247.2 | 5255.0 | 5311.8  | 5359.7  | 5388.1  | 5402.8  | 5315.7  | 5224.7  | 5173.8 | 5107.2 | 5087.6 |
| 55°   | 5837.4 | 5850.1 | 5933.3  | 6066.4  | 6203.4  | 6275.9  | 6118.3  | 5948.0  | 5790.4 | 5666.1 | 5626.0 |
| 57.5° | 6495.1 | 6517.6 | 6632.1  | 6887.6  | 7168.5  | 7339.8  | 7073.6  | 6764.3  | 6459.9 | 6280.8 | 6249.4 |
| 60°   | 7266.4 | 7287.9 | 7446.5  | 7812.5  | 8267.7  | 8525.1  | 8121.8  | 7615.8  | 7237.0 | 7065.7 | 7008.0 |
| 62.5° | 8184.5 | 8186.4 | 8381.2  | 8808.9  | 9409.9  | 9768.1  | 9222.0  | 8545.6  | 8155.1 | 7948.6 | 7892.8 |
| 65°   | 9172.0 | 9176.9 | 9378.6  | 9840.5  | 10462.1 | 10851.6 | 10235.0 | 9530.3  | 9052.6 | 8748.2 | 8705.2 |
| 67.5° | 9869.9 | 9890.5 | 10102.9 | 10658.8 | 11240.2 | 11591.6 | 10953.4 | 10156.7 | 9604.7 | 9241.5 | 9205.3 |
| 70°   | 9758.3 | 9838.6 | 10088.2 | 10737.1 | 11545.6 | 12046.7 | 11069.9 | 10082.3 | 9354.1 | 8925.4 | 8895.1 |
| 72.5° | 8510.4 | 8664.1 | 8996.9  | 9848.4  | 11141.3 | 11831.4 | 10434.7 | 9030.1  | 8206.0 | 7840.9 | 7786.1 |
| 75°   | 5795.3 | 6044.9 | 6547.0  | 7775.3  | 9518.5  | 10243.8 | 8784.5  | 7199.8  | 6424.6 | 5919.6 | 5882.4 |
| 77.5° | 2584.0 | 2640.7 | 3276.9  | 4691.2  | 6568.5  | 7356.4  | 6382.6  | 4709.8  | 3535.3 | 2819.8 | 2669.1 |
| 80°   | 720.4  | 729.2  | 972.9   | 1747.1  | 3287.7  | 4322.2  | 3529.4  | 1835.2  | 1031.6 | 727.2  | 685.1  |
| 82.5° | 229.0  | 248.6  | 303.4   | 453.2   | 1105.0  | 1972.2  | 1134.4  | 489.4   | 348.4  | 278.0  | 250.6  |
| 85°   | 111.6  | 110.6  | 153.7   | 184.0   | 281.9   | 436.5   | 300.5   | 227.1   | 198.7  | 132.1  | 119.4  |
| 87.5° | 47.0   | 48.0   | 71.5    | 64.6    | 82.2    | 70.5    | 96.9    | 101.8   | 106.7  | 58.7   | 50.9   |
| 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)