

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: McGRAW-EDISON

Report Number: P455009

Luminaire Tested: **GALN-SA6A-830-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455009  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6A-830-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22233 lumens  
Efficiency: N/A  
Efficacy: 122.2 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): 182  
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

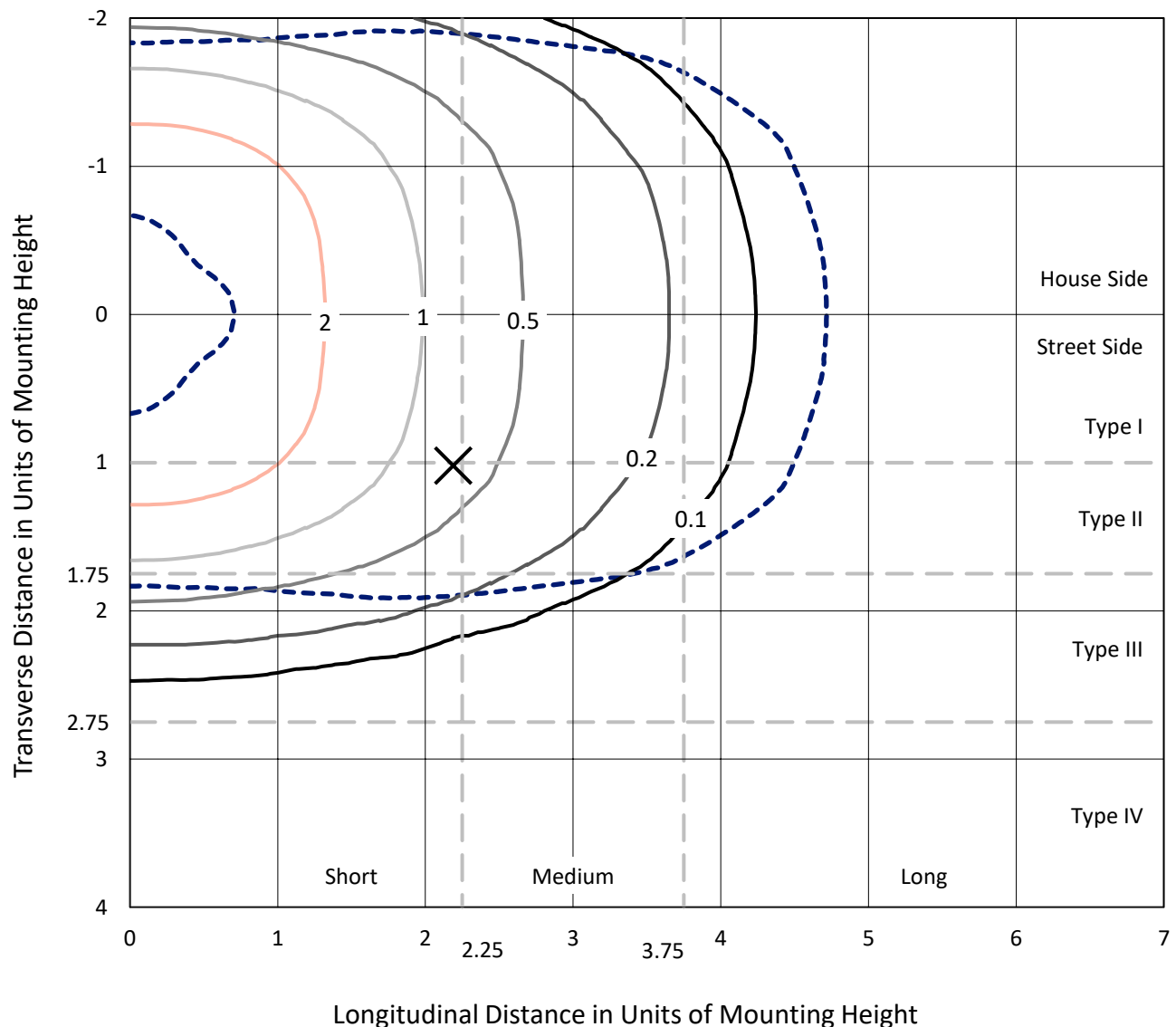


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

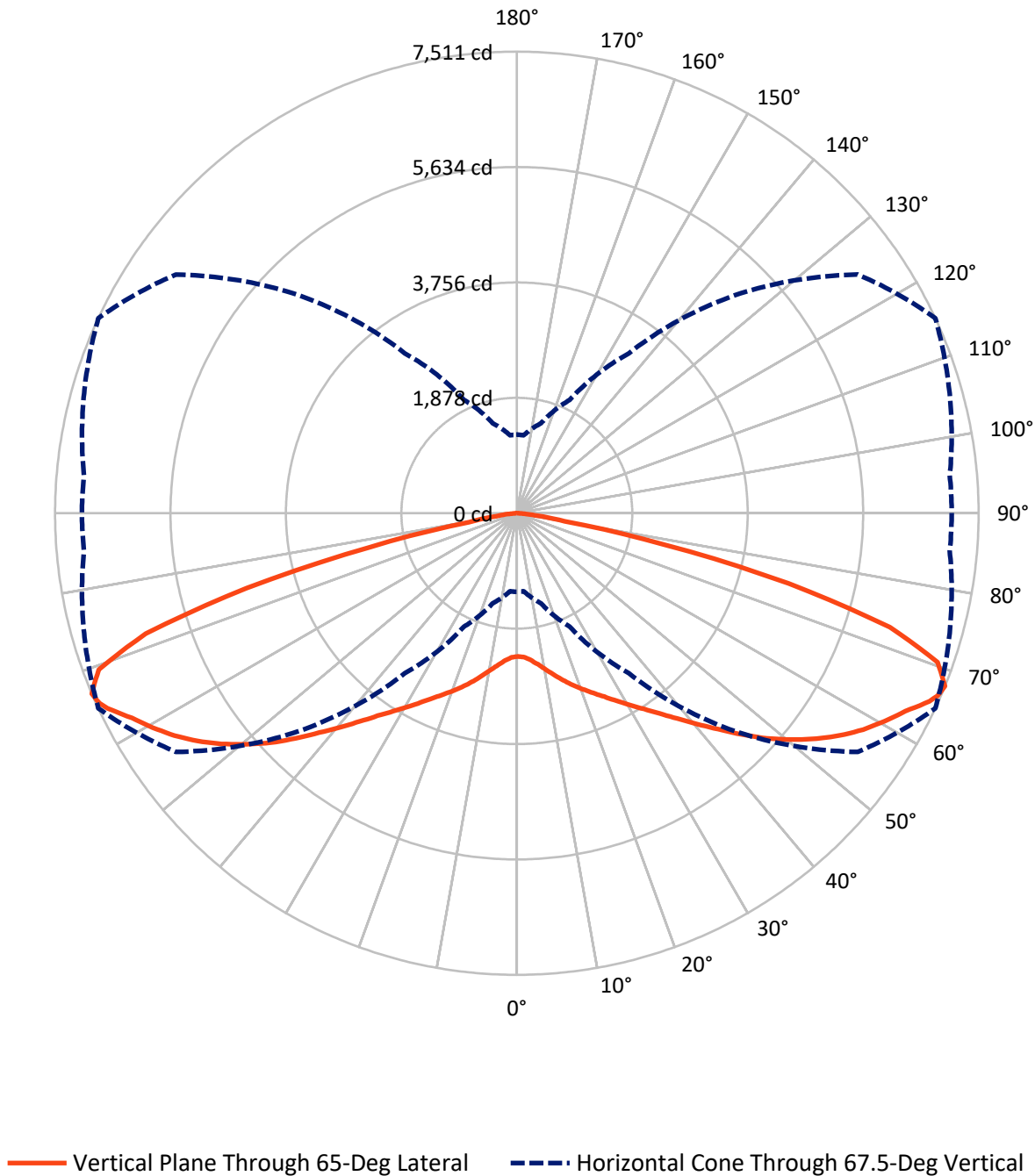


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11116.5  | 0.0    | 11116.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11116.5  | 0.0    | 11116.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 22233.0  | 0.0    | 22233.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 229.7   | 1.0       |
| 10°-20°   | 768.7   | 3.5       |
| 20°-30°   | 1503.6  | 6.8       |
| 30°-40°   | 2557.5  | 11.5      |
| 40°-50°   | 4047.7  | 18.2      |
| 50°-60°   | 5367.2  | 24.1      |
| 60°-70°   | 5062.9  | 22.8      |
| 70°-80°   | 2502.8  | 11.3      |
| 80°-90°   | 192.9   | 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°    | 22233.0 | 100.0     |
| 0°-180°   | 22233.0 | 100.0     |

**Coefficient of Utilization**



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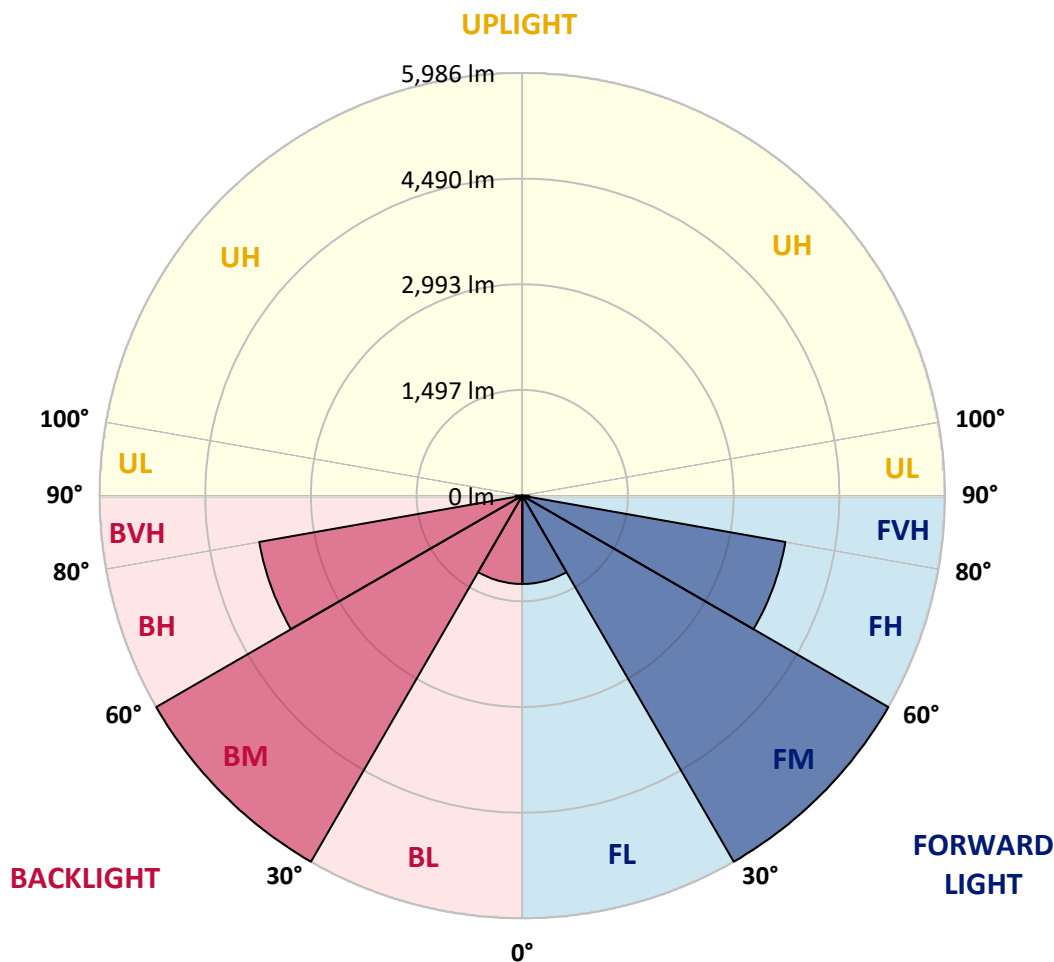
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1251.0 | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 5986.2 | 26.9      |                         |      |         |
| FH   | (60°-80°)   | 3782.9 | 17.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 96.4   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1251.0 | 5.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5986.2 | 26.9      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3782.9 | 17.0      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 96.4   | 0.4       |                         |      | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2328.7 | 2328.7 | 2328.7 | 2328.7 | 2328.7 | 2328.7 | 2328.7 | 2328.7 | 2328.7 | 2328.7 | 2328.7 |
| 2.5°  | 2316.8 | 2319.2 | 2321.6 | 2325.1 | 2329.9 | 2337.0 | 2341.8 | 2345.4 | 2354.9 | 2356.1 | 2354.9 |
| 5°    | 2308.5 | 2310.8 | 2316.8 | 2327.5 | 2343.0 | 2364.4 | 2381.1 | 2401.4 | 2416.9 | 2427.6 | 2425.2 |
| 7.5°  | 2307.3 | 2312.0 | 2321.6 | 2344.2 | 2374.0 | 2410.9 | 2449.0 | 2483.6 | 2513.3 | 2537.2 | 2533.6 |
| 10°   | 2326.3 | 2332.3 | 2347.8 | 2381.1 | 2427.6 | 2481.2 | 2534.8 | 2586.0 | 2628.9 | 2659.9 | 2670.6 |
| 12.5° | 2358.5 | 2363.3 | 2391.8 | 2441.9 | 2508.6 | 2575.3 | 2636.0 | 2699.2 | 2758.7 | 2811.1 | 2811.1 |
| 15°   | 2414.5 | 2422.8 | 2458.5 | 2531.2 | 2613.4 | 2690.8 | 2752.8 | 2819.5 | 2883.8 | 2943.3 | 2961.2 |
| 17.5° | 2491.9 | 2503.8 | 2557.4 | 2650.3 | 2755.1 | 2826.6 | 2885.0 | 2939.8 | 2995.8 | 3052.9 | 3061.3 |
| 20°   | 2597.9 | 2609.8 | 2681.3 | 2793.3 | 2917.1 | 3002.9 | 3042.2 | 3055.3 | 3082.7 | 3137.5 | 3144.7 |
| 22.5° | 2742.0 | 2754.0 | 2833.8 | 2960.0 | 3098.2 | 3191.1 | 3207.8 | 3176.8 | 3169.7 | 3212.5 | 3217.3 |
| 25°   | 2905.2 | 2916.0 | 3007.7 | 3143.5 | 3286.4 | 3387.6 | 3382.9 | 3306.6 | 3263.8 | 3290.0 | 3297.1 |
| 27.5° | 3088.7 | 3104.2 | 3197.1 | 3337.6 | 3492.5 | 3581.8 | 3567.5 | 3456.7 | 3365.0 | 3360.3 | 3362.6 |
| 30°   | 3323.3 | 3340.0 | 3428.1 | 3562.7 | 3715.2 | 3797.4 | 3767.6 | 3618.7 | 3477.0 | 3429.3 | 3429.3 |
| 32.5° | 3571.1 | 3612.8 | 3702.1 | 3842.7 | 3961.8 | 4021.3 | 3976.1 | 3797.4 | 3609.2 | 3542.5 | 3538.9 |
| 35°   | 3893.9 | 3916.5 | 4004.7 | 4141.7 | 4231.0 | 4277.4 | 4190.5 | 3998.7 | 3781.9 | 3703.3 | 3692.6 |
| 37.5° | 4209.5 | 4228.6 | 4331.0 | 4462.1 | 4570.5 | 4568.1 | 4450.2 | 4238.1 | 3996.3 | 3908.2 | 3901.0 |
| 40°   | 4532.3 | 4552.6 | 4669.3 | 4789.6 | 4898.0 | 4888.5 | 4745.6 | 4508.5 | 4251.2 | 4152.4 | 4171.4 |
| 42.5° | 4812.3 | 4834.9 | 4967.1 | 5138.6 | 5236.3 | 5233.9 | 5068.4 | 4801.6 | 4533.5 | 4445.4 | 4462.1 |
| 45°   | 5067.2 | 5087.4 | 5241.1 | 5437.6 | 5580.6 | 5598.4 | 5417.4 | 5135.1 | 4859.9 | 4746.8 | 4751.5 |
| 47.5° | 5247.0 | 5285.2 | 5446.0 | 5671.1 | 5865.3 | 5928.4 | 5750.9 | 5474.6 | 5157.7 | 5039.8 | 5046.9 |
| 50°   | 5384.0 | 5407.8 | 5582.9 | 5839.0 | 6084.4 | 6215.5 | 6072.5 | 5789.0 | 5455.5 | 5330.4 | 5347.1 |
| 52.5° | 5400.7 | 5429.3 | 5619.9 | 5915.3 | 6229.7 | 6428.7 | 6358.4 | 6096.3 | 5759.2 | 5630.6 | 5666.3 |
| 55°   | 5264.9 | 5281.6 | 5509.1 | 5867.6 | 6286.9 | 6587.1 | 6605.0 | 6382.2 | 6048.7 | 5951.0 | 5974.8 |
| 57.5° | 4877.8 | 4920.7 | 5208.9 | 5644.9 | 6208.3 | 6671.7 | 6789.6 | 6641.9 | 6341.7 | 6245.2 | 6283.3 |
| 60°   | 4242.9 | 4285.8 | 4575.2 | 5127.9 | 5911.7 | 6632.4 | 6942.1 | 6871.8 | 6607.3 | 6529.9 | 6550.2 |
| 62.5° | 3324.5 | 3320.9 | 3679.5 | 4357.2 | 5322.1 | 6439.4 | 7055.2 | 7093.3 | 6869.4 | 6771.7 | 6802.7 |
| 65°   | 2154.8 | 2165.5 | 2512.1 | 3242.3 | 4432.3 | 5948.6 | 7080.2 | 7375.6 | 7126.7 | 6979.0 | 7001.6 |
| 66°   | 1733.1 | 1765.3 | 2059.5 | 2732.5 | 3978.5 | 5627.0 | 7005.2 | 7459.0 | 7205.3 | 7026.6 | 7037.4 |
| 67.5° | 1279.3 | 1273.3 | 1515.2 | 2034.5 | 3176.8 | 5016.0 | 6770.5 | 7511.4 | 7294.6 | 7069.5 | 7074.3 |
| 70°   | 730.2  | 729.0  | 814.8  | 1117.3 | 1867.7 | 3531.8 | 5706.8 | 7260.1 | 7475.7 | 7224.4 | 7211.3 |
| 72.5° | 533.6  | 530.1  | 542.0  | 617.0  | 911.2  | 1783.2 | 3936.8 | 6345.3 | 7382.8 | 7199.3 | 7162.4 |
| 75°   | 447.9  | 445.5  | 443.1  | 452.6  | 511.0  | 807.6  | 2089.3 | 4564.5 | 6406.0 | 6757.4 | 6719.3 |
| 77.5° | 365.7  | 365.7  | 366.9  | 364.5  | 366.9  | 425.2  | 866.0  | 2446.6 | 3901.0 | 4354.9 | 4460.9 |
| 80°   | 285.9  | 284.7  | 304.9  | 296.6  | 277.5  | 272.8  | 383.6  | 787.4  | 1294.8 | 1287.6 | 1062.5 |
| 82.5° | 210.8  | 196.5  | 232.3  | 226.3  | 204.9  | 173.9  | 223.9  | 335.9  | 432.4  | 281.1  | 208.5  |
| 85°   | 133.4  | 132.2  | 164.4  | 150.1  | 125.1  | 82.2   | 107.2  | 144.1  | 178.7  | 108.4  | 88.1   |
| 87.5° | 23.8   | 22.6   | 52.4   | 38.1   | 38.1   | 23.8   | 29.8   | 39.3   | 58.4   | 40.5   | 29.8   |
| 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)