

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: LUMARK

Report Number: P970473

Luminaire Tested: **NAV-SB6B-827-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970473  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6B-827-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30785.9 lumens  
Efficiency: N/A  
Efficacy: 139.7 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): 220.4  
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



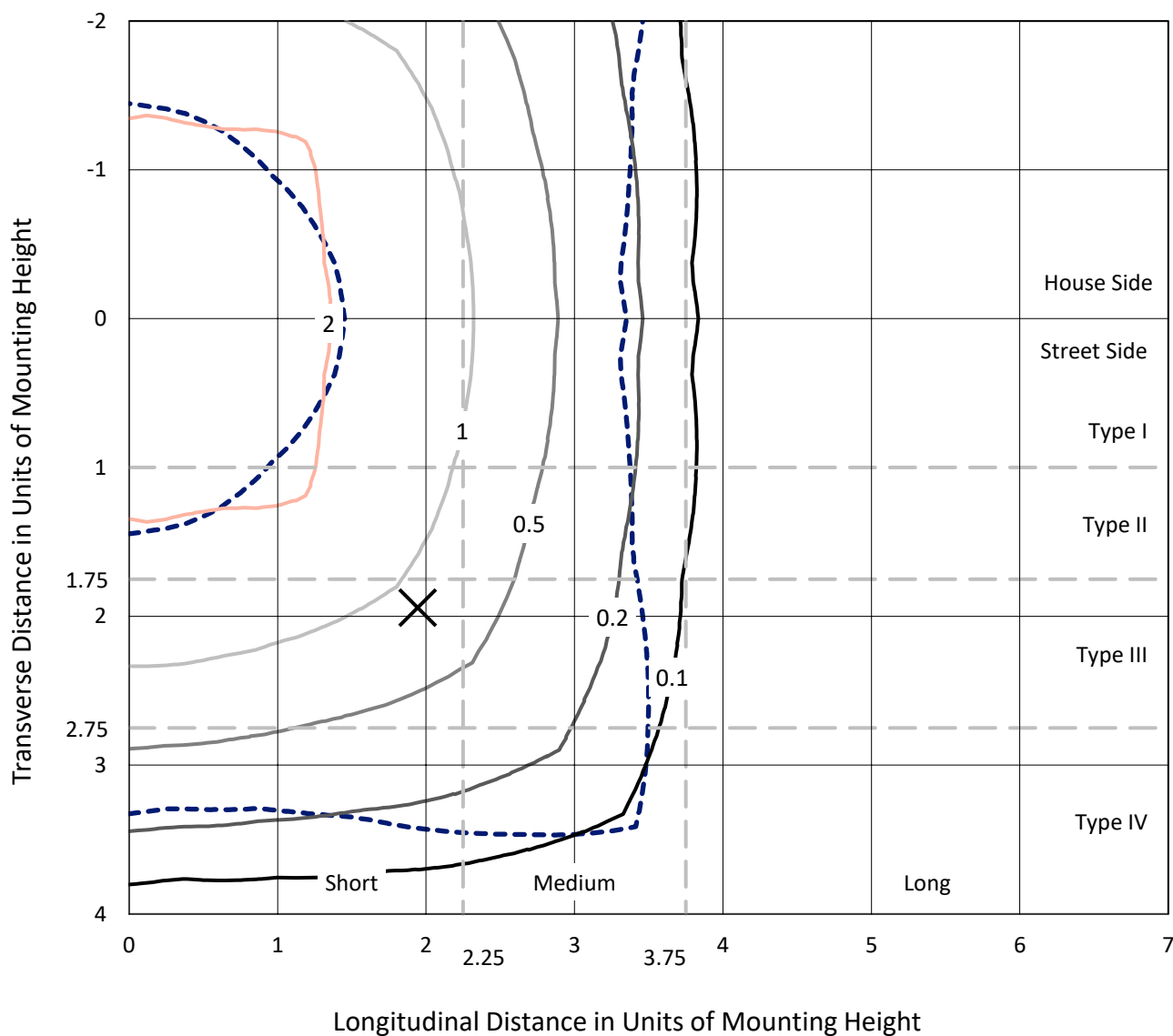
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



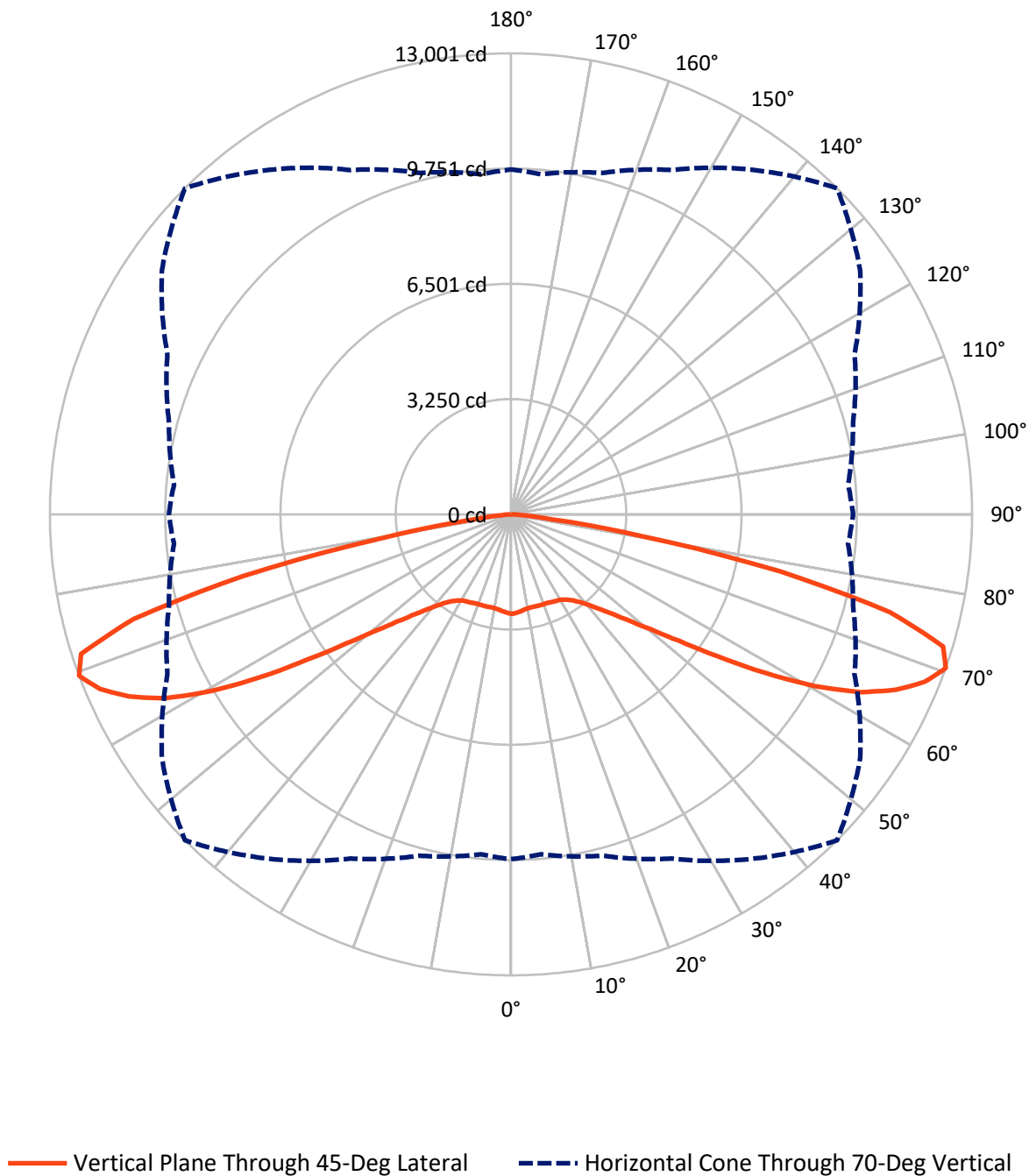
Based on 25 foot mounting height. Maximum calculated value = 4.5 fc

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    | 15392.9  | 0.0    | 15392.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 15392.9  | 0.0    | 15392.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 30785.9  | 0.0    | 30785.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 261.2   | 0.8       |
| 10°-20°   | 767.1   | 2.5       |
| 20°-30°   | 1276.5  | 4.1       |
| 30°-40°   | 1930.4  | 6.3       |
| 40°-50°   | 3207.9  | 10.4      |
| 50°-60°   | 6053.3  | 19.7      |
| 60°-70°   | 10221.2 | 33.2      |
| 70°-80°   | 6716.4  | 21.8      |
| 80°-90°   | 351.9   | 1.1       |
| 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°    | 30785.9 | 100.0     |
| 0°-180°   | 30785.9 | 100.0     |

**Coefficient of Utilization**



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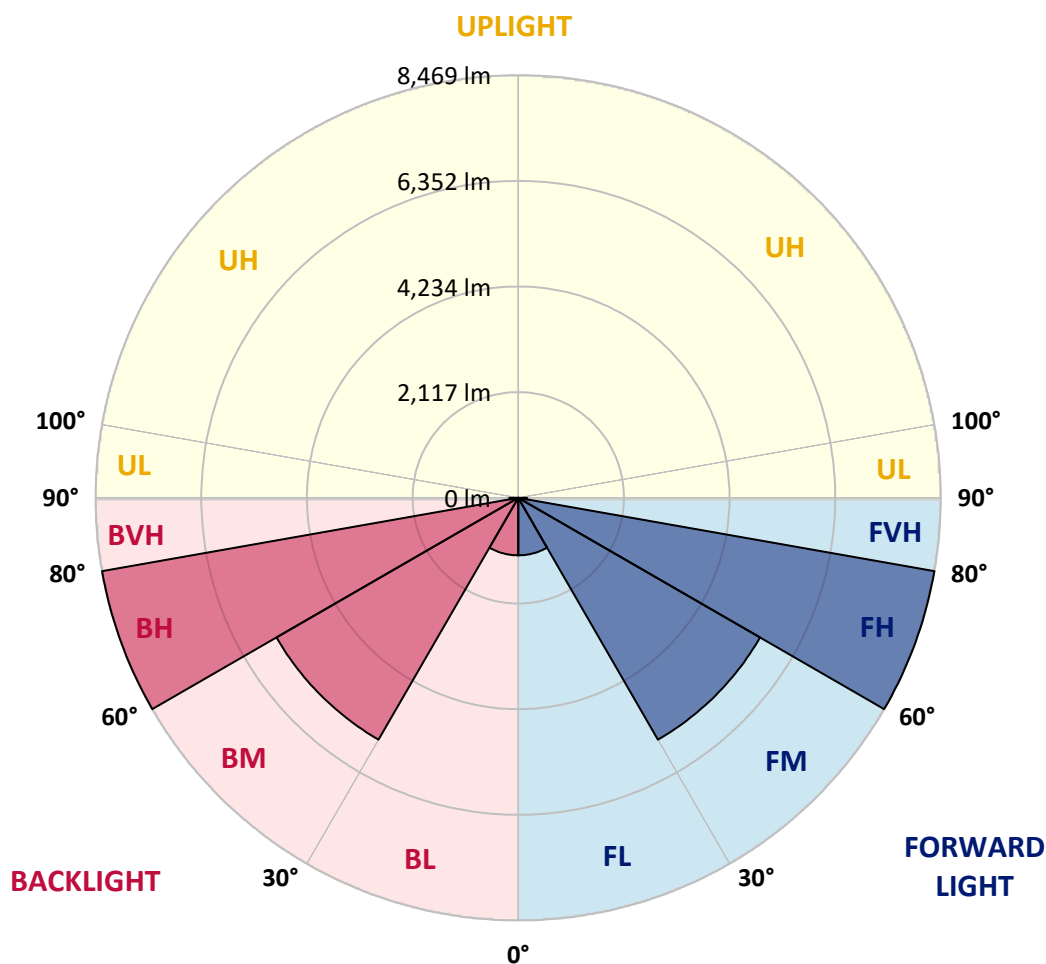
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1152.4 | 3.7       |                         |      |          |
| FM   | (30°-60°)   | 5595.8 | 18.2      |                         |      |          |
| FH   | (60°-80°)   | 8468.8 | 27.5      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 175.9  | 0.6       |                         |      | G2/225   |
| BL   | (0°-30°)    | 1152.4 | 3.7       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 5595.8 | 18.2      | B4/8500                 |      |          |
| BH   | (60°-80°)   | 8468.8 | 27.5      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 175.9  | 0.6       |                         |      | G2/225   |
| 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°    | 2808.3  | 2808.3  | 2808.3  | 2808.3  | 2808.3  | 2808.3  | 2808.3  | 2808.3  | 2808.3  | 2808.3  | 2808.3  |
| 2.5°  | 2790.7  | 2798.7  | 2795.5  | 2789.1  | 2789.1  | 2784.3  | 2789.1  | 2792.3  | 2797.1  | 2800.3  | 2798.7  |
| 5°    | 2753.9  | 2760.3  | 2758.7  | 2753.9  | 2755.5  | 2750.7  | 2753.9  | 2758.7  | 2761.9  | 2763.5  | 2763.5  |
| 7.5°  | 2721.9  | 2728.2  | 2725.1  | 2717.1  | 2717.1  | 2712.3  | 2713.9  | 2718.7  | 2723.5  | 2725.1  | 2725.1  |
| 10°   | 2713.9  | 2720.2  | 2710.7  | 2697.9  | 2693.1  | 2686.7  | 2688.3  | 2693.1  | 2702.7  | 2707.4  | 2707.4  |
| 12.5° | 2717.1  | 2721.9  | 2712.3  | 2693.1  | 2688.3  | 2681.9  | 2681.9  | 2686.7  | 2699.4  | 2705.9  | 2707.4  |
| 15°   | 2726.7  | 2731.5  | 2717.1  | 2696.3  | 2691.4  | 2686.7  | 2685.1  | 2691.4  | 2705.9  | 2717.1  | 2718.7  |
| 17.5° | 2744.3  | 2749.0  | 2726.7  | 2697.9  | 2691.4  | 2693.1  | 2691.4  | 2696.3  | 2718.7  | 2739.5  | 2739.5  |
| 20°   | 2760.3  | 2763.5  | 2733.1  | 2697.9  | 2691.4  | 2693.1  | 2691.4  | 2701.1  | 2729.9  | 2758.7  | 2760.3  |
| 22.5° | 2765.0  | 2768.3  | 2739.5  | 2709.1  | 2704.3  | 2705.9  | 2704.3  | 2713.9  | 2741.1  | 2769.9  | 2769.9  |
| 25°   | 2766.7  | 2771.5  | 2749.0  | 2725.1  | 2733.1  | 2736.2  | 2733.1  | 2734.7  | 2755.5  | 2781.1  | 2779.5  |
| 27.5° | 2790.7  | 2797.1  | 2776.3  | 2755.5  | 2760.3  | 2758.7  | 2763.5  | 2768.3  | 2784.3  | 2809.9  | 2803.5  |
| 30°   | 2840.3  | 2845.1  | 2827.5  | 2806.7  | 2803.5  | 2792.3  | 2806.7  | 2822.6  | 2840.3  | 2862.7  | 2857.9  |
| 32.5° | 2921.9  | 2931.5  | 2909.1  | 2886.7  | 2872.3  | 2865.9  | 2877.1  | 2904.3  | 2928.3  | 2952.3  | 2942.7  |
| 35°   | 3057.9  | 3064.3  | 3043.5  | 3001.9  | 2976.3  | 2976.3  | 2985.9  | 3021.1  | 3059.5  | 3090.0  | 3078.7  |
| 37.5° | 3250.0  | 3258.0  | 3221.2  | 3171.6  | 3133.1  | 3133.1  | 3145.9  | 3182.7  | 3240.3  | 3283.6  | 3267.5  |
| 40°   | 3483.6  | 3494.7  | 3448.4  | 3397.2  | 3360.4  | 3353.9  | 3370.0  | 3411.5  | 3465.9  | 3520.4  | 3502.7  |
| 42.5° | 3765.2  | 3777.9  | 3717.2  | 3672.4  | 3643.6  | 3643.6  | 3651.6  | 3690.0  | 3739.6  | 3806.7  | 3802.0  |
| 45°   | 4125.2  | 4147.7  | 4064.4  | 4019.6  | 3992.4  | 3998.8  | 4003.6  | 4037.3  | 4082.1  | 4158.8  | 4155.7  |
| 47.5° | 4554.1  | 4576.5  | 4488.5  | 4442.0  | 4437.2  | 4467.7  | 4448.5  | 4472.5  | 4496.5  | 4584.5  | 4558.9  |
| 50°   | 5040.5  | 5079.0  | 5018.1  | 5014.9  | 5024.5  | 5080.5  | 5035.7  | 5048.5  | 5021.4  | 5077.3  | 5043.7  |
| 52.5° | 5635.8  | 5691.8  | 5680.5  | 5699.8  | 5807.0  | 5922.2  | 5819.8  | 5775.0  | 5672.6  | 5690.2  | 5630.9  |
| 55°   | 6357.5  | 6442.2  | 6458.3  | 6573.5  | 6816.7  | 7051.9  | 6834.3  | 6653.5  | 6435.9  | 6395.9  | 6333.5  |
| 57.5° | 7178.4  | 7245.5  | 7322.4  | 7557.6  | 8012.0  | 8429.7  | 8012.0  | 7612.0  | 7269.5  | 7187.9  | 7130.3  |
| 60°   | 8061.6  | 8144.9  | 8218.4  | 8565.7  | 9241.0  | 9828.2  | 9228.2  | 8592.9  | 8140.0  | 8029.6  | 7933.6  |
| 62.5° | 9010.6  | 9117.8  | 9168.9  | 9554.6  | 10341.8 | 11042.7 | 10353.1 | 9583.4  | 9081.0  | 8962.5  | 8866.6  |
| 65°   | 9921.1  | 10009.0 | 10066.6 | 10477.9 | 11230.0 | 11932.4 | 11281.2 | 10522.6 | 10005.8 | 9850.7  | 9773.8  |
| 67.5° | 10345.1 | 10393.1 | 10533.9 | 10999.6 | 11793.2 | 12594.9 | 11927.6 | 11049.2 | 10471.5 | 10199.5 | 10202.6 |
| 70°   | 9724.2  | 9626.6  | 9965.9  | 10711.6 | 11860.5 | 13001.3 | 12014.0 | 10689.1 | 9981.9  | 9540.2  | 9645.8  |
| 72.5° | 7514.4  | 7346.4  | 7935.2  | 9210.5  | 11092.3 | 12742.1 | 11169.1 | 9282.6  | 8301.7  | 7405.5  | 7627.9  |
| 75°   | 4088.4  | 3898.0  | 4710.9  | 6323.8  | 8845.8  | 11044.4 | 9048.9  | 6504.6  | 5245.3  | 4058.0  | 4322.0  |
| 77.5° | 1153.7  | 1081.7  | 1737.8  | 3059.5  | 5320.6  | 7754.4  | 5525.4  | 3126.8  | 2061.0  | 1222.5  | 1358.5  |
| 80°   | 353.6   | 342.5   | 464.0   | 921.7   | 2259.4  | 3714.0  | 2171.5  | 932.9   | 590.5   | 372.8   | 393.6   |
| 82.5° | 209.6   | 192.0   | 230.4   | 336.0   | 576.0   | 1166.6  | 560.1   | 350.4   | 281.7   | 188.8   | 204.8   |
| 85°   | 120.0   | 112.0   | 136.0   | 163.2   | 193.6   | 248.0   | 161.6   | 166.5   | 150.4   | 100.9   | 105.6   |
| 87.5° | 49.6    | 44.8    | 52.8    | 51.2    | 44.8    | 57.6    | 43.3    | 51.2    | 60.8    | 40.0    | 36.8    |
| 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)