

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: P964583

Luminaire Tested: **NAV-SB3C-740-U-5WQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P964583  
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-SB3C-740-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 24647.1 lumens  
Efficiency: N/A  
Efficacy: 165.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

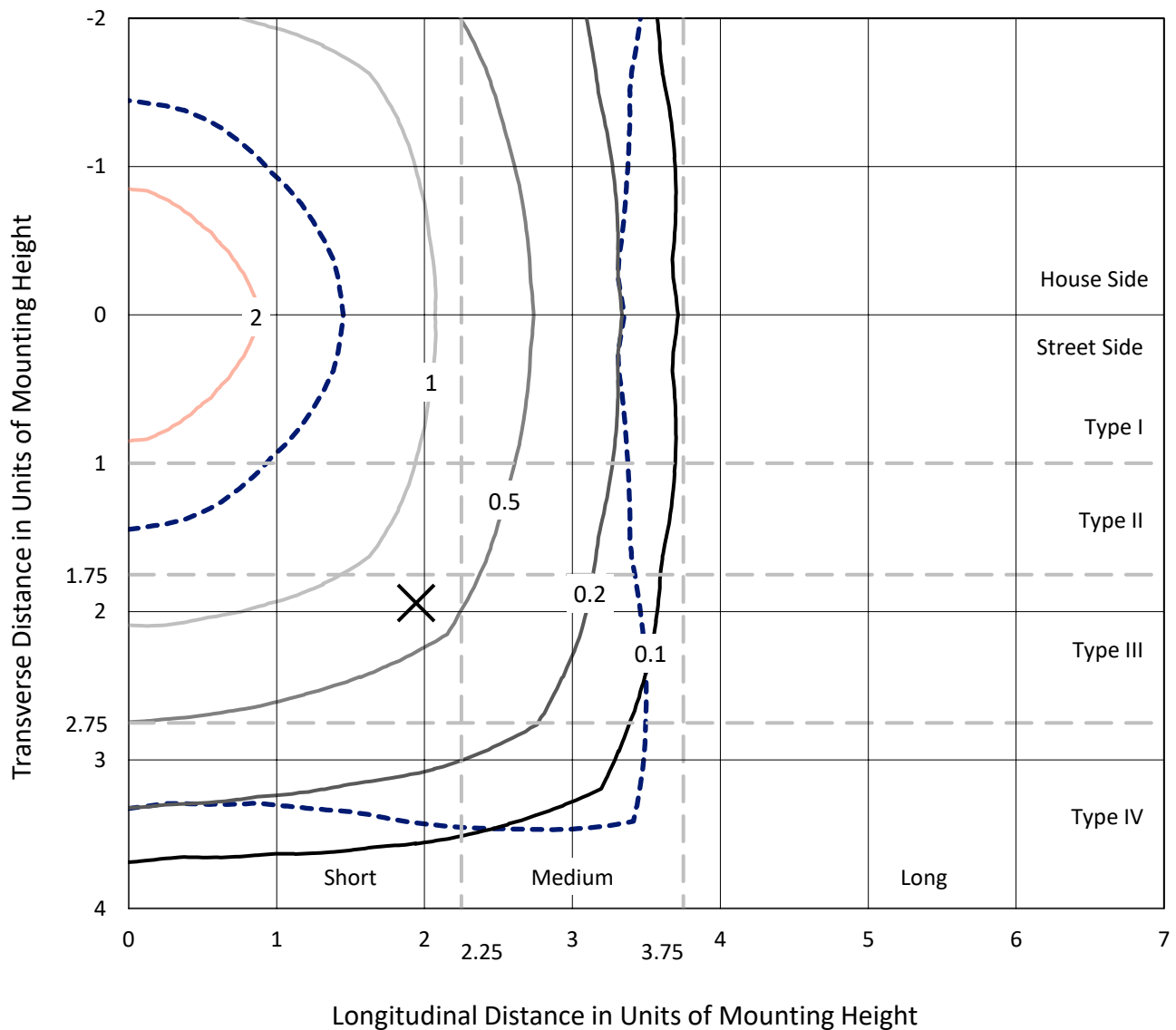
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

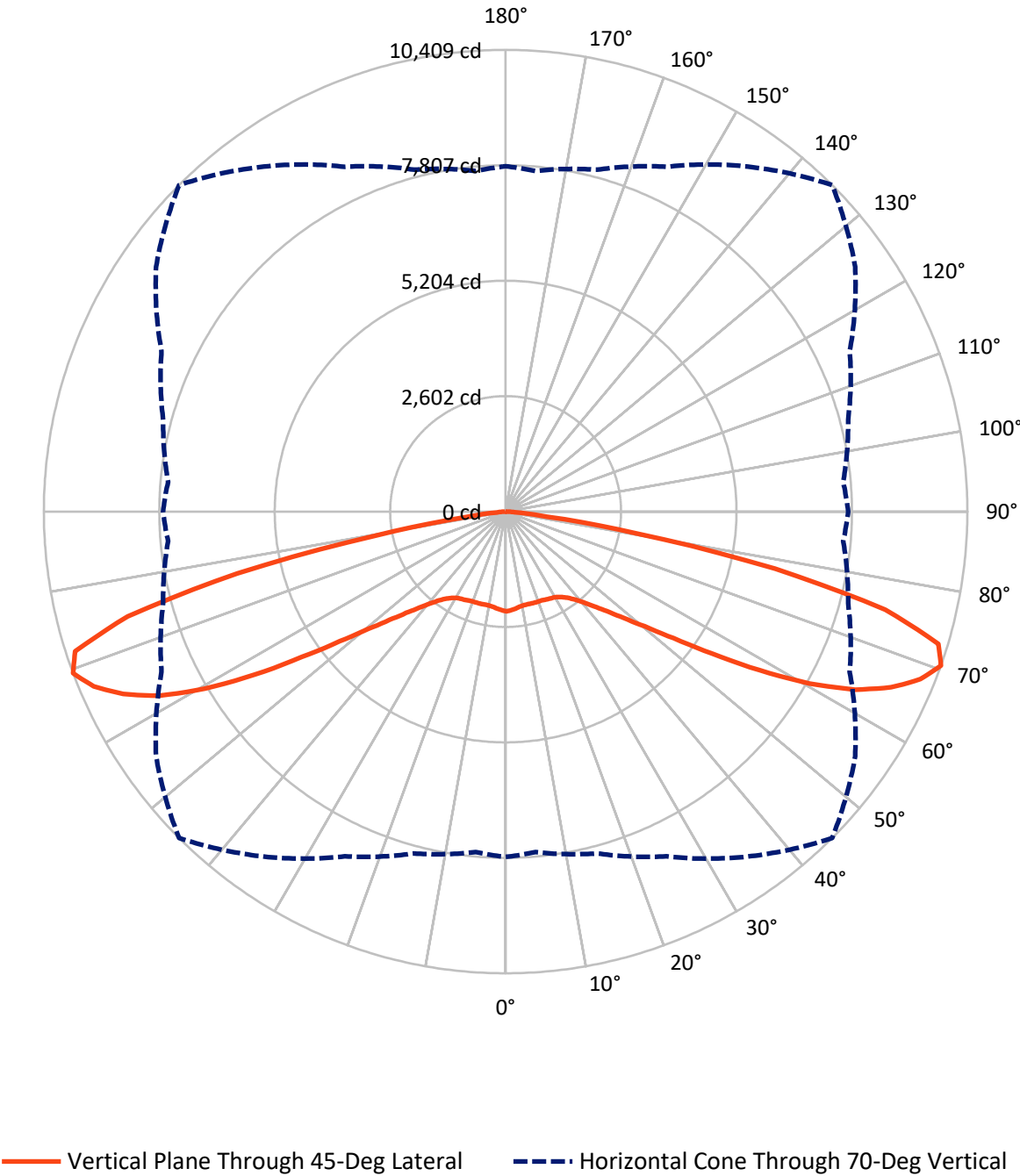
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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    | 12323.6  | 0.0    | 12323.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 12323.6  | 0.0    | 12323.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 24647.1  | 0.0    | 24647.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 209.1   | 0.8       |
| 10°-20°   | 614.1   | 2.5       |
| 20°-30°   | 1022.0  | 4.1       |
| 30°-40°   | 1545.5  | 6.3       |
| 40°-50°   | 2568.3  | 10.4      |
| 50°-60°   | 4846.2  | 19.7      |
| 60°-70°   | 8183.1  | 33.2      |
| 70°-80°   | 5377.1  | 21.8      |
| 80°-90°   | 281.7   | 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°    | 24647.1 | 100.0     |
| 0°-180°   | 24647.1 | 100.0     |

**Coefficient of Utilization**



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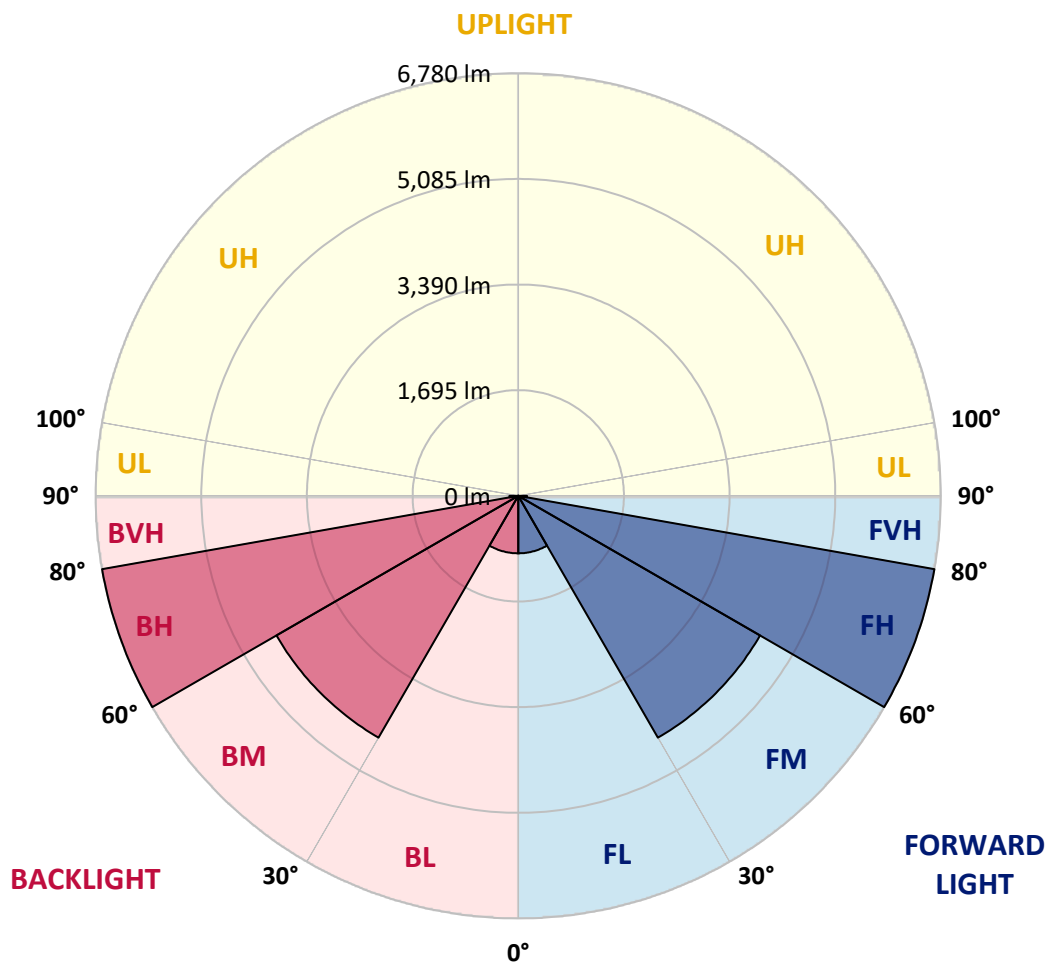
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 922.6  | 3.7       |                         |      |         |
| FM   | (30°-60°)   | 4480.0 | 18.2      |                         |      |         |
| FH   | (60°-80°)   | 6780.1 | 27.5      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 140.8  | 0.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 922.6  | 3.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 4480.0 | 18.2      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 6780.1 | 27.5      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 140.8  | 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-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| 0°    | 2248.3 | 2248.3 | 2248.3 | 2248.3 | 2248.3 | 2248.3  | 2248.3 | 2248.3 | 2248.3 | 2248.3 | 2248.3 |
| 2.5°  | 2234.2 | 2240.6 | 2238.1 | 2233.0 | 2233.0 | 2229.1  | 2233.0 | 2235.5 | 2239.3 | 2241.9 | 2240.6 |
| 5°    | 2204.8 | 2209.9 | 2208.6 | 2204.8 | 2206.0 | 2202.2  | 2204.8 | 2208.6 | 2211.1 | 2212.5 | 2212.5 |
| 7.5°  | 2179.1 | 2184.3 | 2181.7 | 2175.3 | 2175.3 | 2171.5  | 2172.7 | 2176.6 | 2180.4 | 2181.7 | 2181.7 |
| 10°   | 2172.7 | 2177.8 | 2170.1 | 2159.9 | 2156.1 | 2151.0  | 2152.2 | 2156.1 | 2163.8 | 2167.6 | 2167.6 |
| 12.5° | 2175.3 | 2179.1 | 2171.5 | 2156.1 | 2152.2 | 2147.1  | 2147.1 | 2151.0 | 2161.2 | 2166.3 | 2167.6 |
| 15°   | 2182.9 | 2186.8 | 2175.3 | 2158.6 | 2154.8 | 2151.0  | 2149.6 | 2154.8 | 2166.3 | 2175.3 | 2176.6 |
| 17.5° | 2197.1 | 2200.9 | 2182.9 | 2159.9 | 2154.8 | 2156.1  | 2154.8 | 2158.6 | 2176.6 | 2193.2 | 2193.2 |
| 20°   | 2209.9 | 2212.5 | 2188.1 | 2159.9 | 2154.8 | 2156.1  | 2154.8 | 2162.4 | 2185.5 | 2208.6 | 2209.9 |
| 22.5° | 2213.7 | 2216.3 | 2193.2 | 2168.9 | 2165.0 | 2166.3  | 2165.0 | 2172.7 | 2194.5 | 2217.6 | 2217.6 |
| 25°   | 2215.0 | 2218.8 | 2200.9 | 2181.7 | 2188.1 | 2190.6  | 2188.1 | 2189.4 | 2206.0 | 2226.5 | 2225.3 |
| 27.5° | 2234.2 | 2239.3 | 2222.7 | 2206.0 | 2209.9 | 2208.6  | 2212.5 | 2216.3 | 2229.1 | 2249.6 | 2244.4 |
| 30°   | 2274.0 | 2277.8 | 2263.7 | 2247.0 | 2244.4 | 2235.5  | 2247.0 | 2259.8 | 2274.0 | 2291.9 | 2288.0 |
| 32.5° | 2339.3 | 2346.9 | 2329.0 | 2311.1 | 2299.6 | 2294.5  | 2303.4 | 2325.2 | 2344.4 | 2363.6 | 2356.0 |
| 35°   | 2448.2 | 2453.3 | 2436.6 | 2403.3 | 2382.8 | 2382.8  | 2390.5 | 2418.7 | 2449.4 | 2473.8 | 2464.8 |
| 37.5° | 2601.9 | 2608.3 | 2578.8 | 2539.1 | 2508.4 | 2508.4  | 2518.6 | 2548.0 | 2594.2 | 2628.8 | 2616.0 |
| 40°   | 2788.9 | 2797.9 | 2760.7 | 2719.7 | 2690.3 | 2685.2  | 2698.0 | 2731.3 | 2774.9 | 2818.4 | 2804.3 |
| 42.5° | 3014.4 | 3024.7 | 2976.0 | 2940.1 | 2917.0 | 2917.0  | 2923.4 | 2954.2 | 2993.9 | 3047.7 | 3043.8 |
| 45°   | 3302.7 | 3320.6 | 3254.0 | 3218.1 | 3196.4 | 3201.5  | 3205.3 | 3232.2 | 3268.1 | 3329.5 | 3326.9 |
| 47.5° | 3646.0 | 3664.0 | 3593.4 | 3556.3 | 3552.4 | 3576.8  | 3561.5 | 3580.6 | 3599.9 | 3670.3 | 3649.8 |
| 50°   | 4035.4 | 4066.2 | 4017.5 | 4014.9 | 4022.6 | 4067.5  | 4031.6 | 4041.9 | 4020.0 | 4064.9 | 4038.0 |
| 52.5° | 4512.0 | 4556.8 | 4547.9 | 4563.3 | 4649.1 | 4741.3  | 4659.3 | 4623.5 | 4541.5 | 4555.6 | 4508.2 |
| 55°   | 5089.7 | 5157.7 | 5170.5 | 5262.8 | 5457.4 | 5645.8  | 5471.6 | 5326.8 | 5152.6 | 5120.5 | 5070.6 |
| 57.5° | 5747.0 | 5800.8 | 5862.3 | 6050.6 | 6414.4 | 6748.8  | 6414.4 | 6094.1 | 5820.0 | 5754.7 | 5708.5 |
| 60°   | 6454.1 | 6520.7 | 6579.7 | 6857.7 | 7398.3 | 7868.5  | 7388.1 | 6879.5 | 6517.0 | 6428.5 | 6351.6 |
| 62.5° | 7213.8 | 7299.6 | 7340.6 | 7649.4 | 8279.7 | 8840.8  | 8288.7 | 7672.4 | 7270.2 | 7175.4 | 7098.5 |
| 65°   | 7942.7 | 8013.2 | 8059.4 | 8388.6 | 8990.7 | 9553.1  | 9031.7 | 8424.5 | 8010.7 | 7886.5 | 7825.0 |
| 67.5° | 8282.3 | 8320.6 | 8433.4 | 8806.2 | 9441.7 | 10083.4 | 9549.3 | 8846.0 | 8383.5 | 8165.7 | 8168.2 |
| 70°   | 7785.2 | 7707.1 | 7978.6 | 8575.7 | 9495.5 | 10408.9 | 9618.4 | 8557.7 | 7991.4 | 7637.9 | 7722.5 |
| 72.5° | 6016.0 | 5881.4 | 6353.0 | 7374.0 | 8880.5 | 10201.3 | 8942.0 | 7431.7 | 6646.3 | 5928.9 | 6107.0 |
| 75°   | 3273.2 | 3120.7 | 3771.5 | 5062.9 | 7081.8 | 8842.1  | 7244.6 | 5207.6 | 4199.4 | 3248.8 | 3460.2 |
| 77.5° | 923.6  | 866.0  | 1391.2 | 2449.4 | 4259.6 | 6208.2  | 4423.6 | 2503.3 | 1650.0 | 978.8  | 1087.6 |
| 80°   | 283.1  | 274.2  | 371.6  | 737.9  | 1808.9 | 2973.4  | 1738.4 | 746.9  | 472.7  | 298.5  | 315.2  |
| 82.5° | 167.8  | 153.8  | 184.5  | 269.1  | 461.1  | 933.9   | 448.3  | 280.5  | 225.5  | 151.2  | 164.0  |
| 85°   | 96.0   | 89.7   | 108.9  | 130.7  | 155.0  | 198.5   | 129.4  | 133.2  | 120.4  | 80.7   | 84.6   |
| 87.5° | 39.7   | 35.9   | 42.2   | 41.0   | 35.9   | 46.1    | 34.5   | 41.0   | 48.7   | 32.0   | 29.4   |
| 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)