

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: P964524

Luminaire Tested: **NAV-SB3C-730-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964524  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3C-730-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23717.5 lumens  
Efficiency: N/A  
Efficacy: 159.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G4

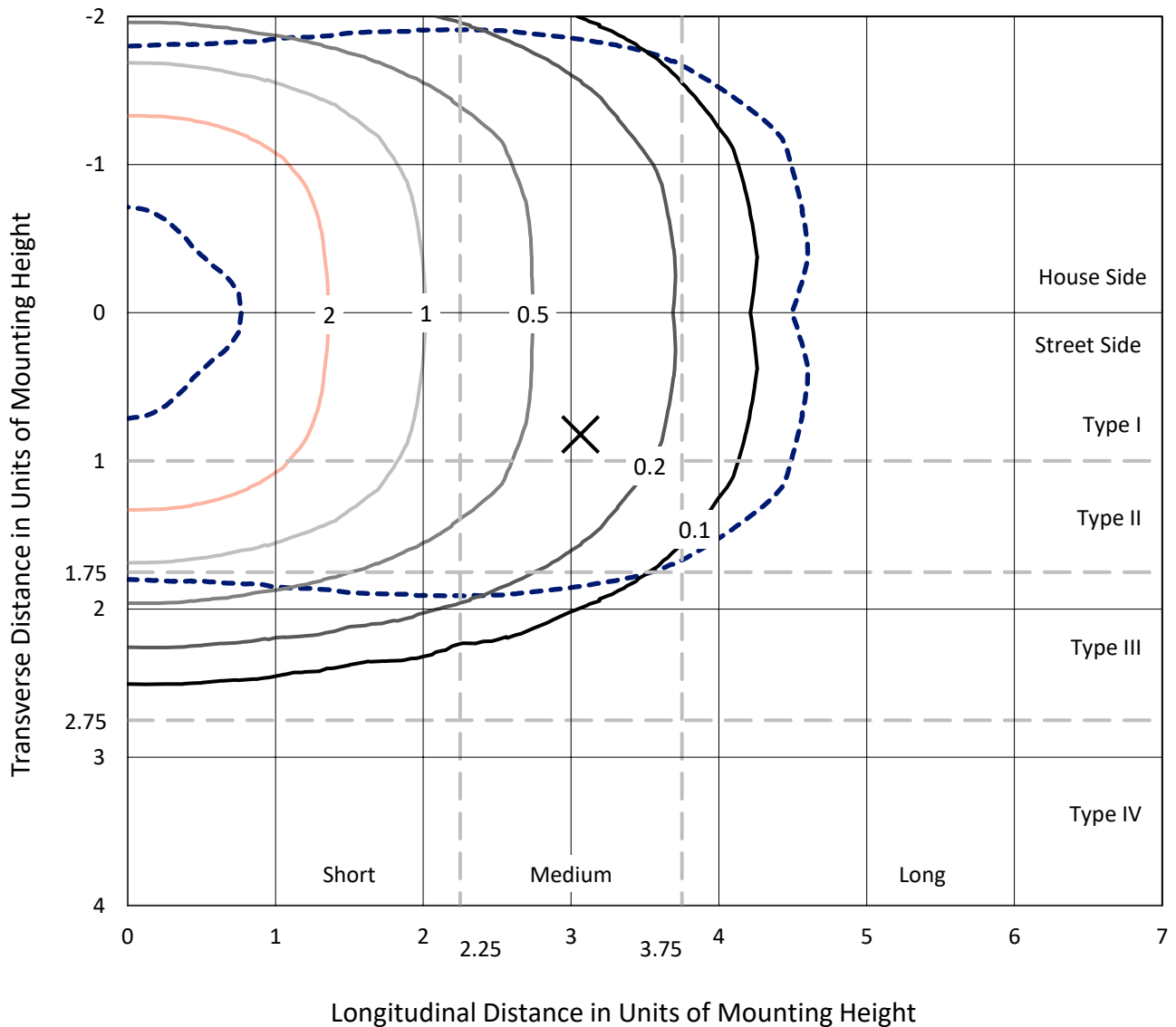
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

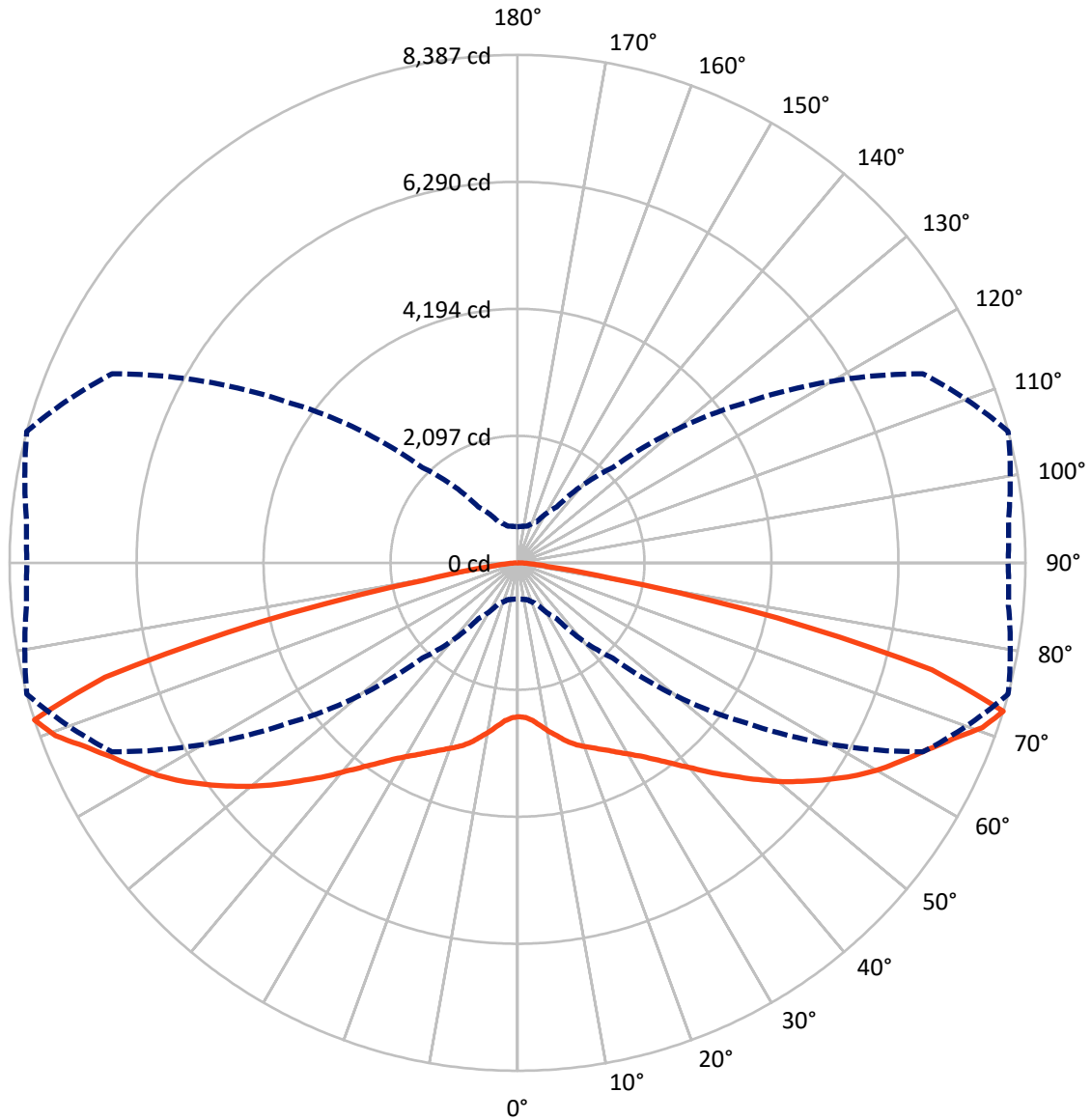
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11858.7  | 0.0    | 11858.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11858.7  | 0.0    | 11858.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 23717.5  | 0.0    | 23717.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 248.9   | 1.0       |
| 10°-20°   | 820.8   | 3.5       |
| 20°-30°   | 1586.1  | 6.7       |
| 30°-40°   | 2678.2  | 11.3      |
| 40°-50°   | 4247.3  | 17.9      |
| 50°-60°   | 5686.6  | 24.0      |
| 60°-70°   | 5411.8  | 22.8      |
| 70°-80°   | 2824.0  | 11.9      |
| 80°-90°   | 213.8   | 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°    | 23717.5 | 100.0     |
| 0°-180°   | 23717.5 | 100.0     |

**Coefficient of Utilization**



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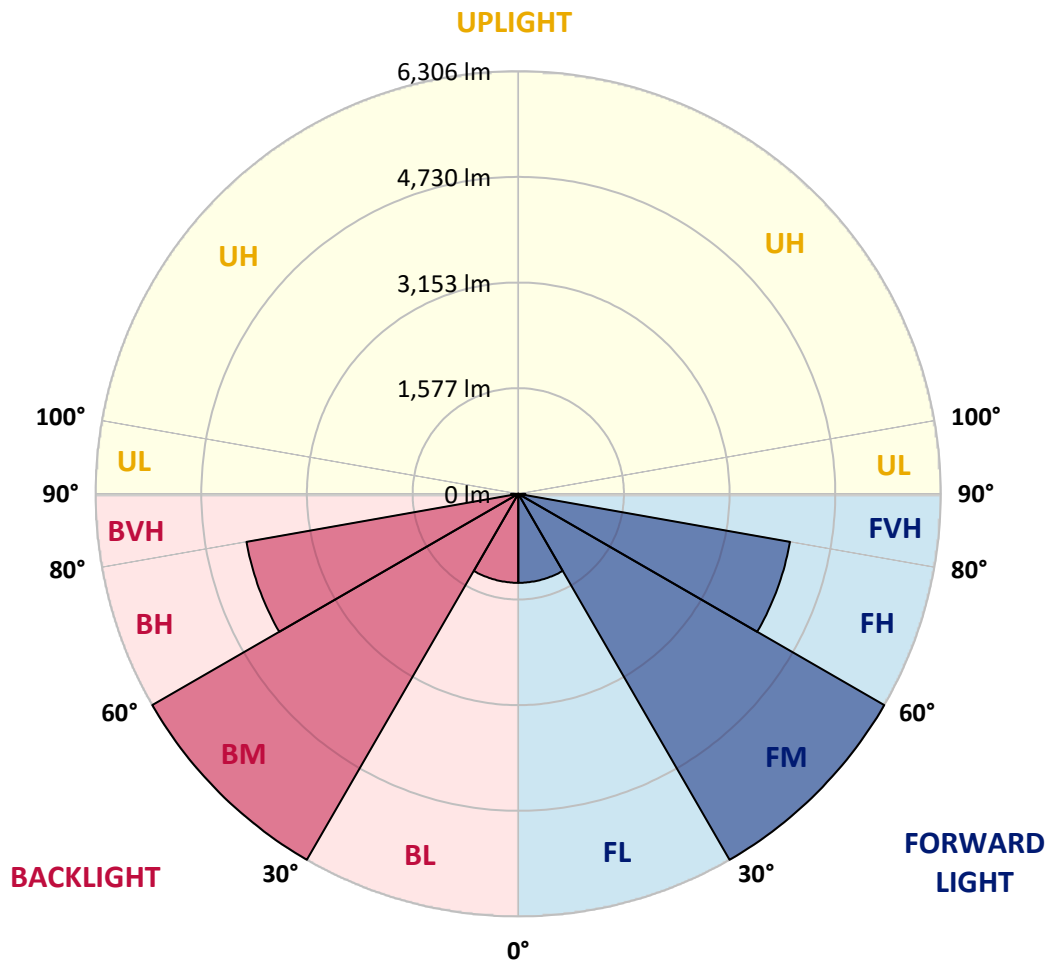
CATALOG NUMBER: NAV-SB3C-730-U-RW

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1327.9 | 5.6       |                         |      |         |
| FM (30°-60°)   | 6306.0 | 26.6      |                         |      |         |
| FH (60°-80°)   | 4117.9 | 17.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 106.9  | 0.5       |                         |      | G2/225  |
| BL (0°-30°)    | 1327.9 | 5.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 6306.0 | 26.6      | B4/8500                 |      |         |
| BH (60°-80°)   | 4117.9 | 17.4      | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 106.9  | 0.5       |                         |      | 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 Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2540.6 | 2540.6 | 2540.6 | 2540.6 | 2540.6 | 2540.6 | 2540.6 | 2540.6 | 2540.6 | 2540.6 | 2540.6 |
| 2.5°  | 2540.6 | 2538.1 | 2540.6 | 2543.0 | 2541.8 | 2541.8 | 2547.8 | 2551.4 | 2558.7 | 2557.5 | 2556.4 |
| 5°    | 2523.7 | 2522.4 | 2532.1 | 2543.0 | 2551.4 | 2566.0 | 2584.1 | 2597.5 | 2614.5 | 2618.1 | 2618.1 |
| 7.5°  | 2515.1 | 2511.5 | 2528.5 | 2547.8 | 2574.5 | 2610.8 | 2645.9 | 2682.2 | 2711.3 | 2721.0 | 2723.4 |
| 10°   | 2521.2 | 2522.4 | 2545.4 | 2581.8 | 2624.1 | 2674.9 | 2724.7 | 2786.4 | 2827.6 | 2837.2 | 2846.9 |
| 12.5° | 2549.1 | 2546.6 | 2585.4 | 2643.5 | 2701.6 | 2765.8 | 2824.0 | 2891.7 | 2936.5 | 2959.6 | 2969.2 |
| 15°   | 2599.9 | 2595.1 | 2649.5 | 2735.5 | 2820.3 | 2895.4 | 2942.6 | 3006.7 | 3058.8 | 3087.9 | 3098.8 |
| 17.5° | 2660.5 | 2662.8 | 2734.3 | 2845.7 | 2957.1 | 3041.9 | 3086.7 | 3119.4 | 3159.4 | 3184.8 | 3196.9 |
| 20°   | 2767.0 | 2771.9 | 2851.8 | 2983.8 | 3110.9 | 3207.8 | 3244.1 | 3232.0 | 3242.9 | 3262.3 | 3276.8 |
| 22.5° | 2909.9 | 2912.3 | 3001.9 | 3144.8 | 3278.1 | 3384.6 | 3408.8 | 3359.1 | 3328.9 | 3342.2 | 3351.9 |
| 25°   | 3075.8 | 3091.5 | 3181.2 | 3327.7 | 3464.5 | 3566.3 | 3577.1 | 3502.0 | 3427.0 | 3430.6 | 3436.6 |
| 27.5° | 3278.1 | 3292.6 | 3383.4 | 3528.7 | 3668.0 | 3756.3 | 3755.2 | 3654.6 | 3544.4 | 3516.6 | 3525.1 |
| 30°   | 3497.2 | 3513.0 | 3606.2 | 3756.3 | 3885.9 | 3963.5 | 3946.5 | 3826.6 | 3669.2 | 3617.1 | 3623.2 |
| 32.5° | 3757.5 | 3767.3 | 3861.7 | 4011.8 | 4131.8 | 4193.5 | 4158.4 | 4010.6 | 3814.4 | 3755.2 | 3769.6 |
| 35°   | 4072.4 | 4087.0 | 4157.2 | 4298.8 | 4404.2 | 4455.1 | 4395.7 | 4221.4 | 4001.0 | 3934.4 | 3944.1 |
| 37.5° | 4432.1 | 4422.4 | 4502.3 | 4628.3 | 4715.4 | 4746.9 | 4665.8 | 4458.8 | 4214.1 | 4135.4 | 4149.9 |
| 40°   | 4807.5 | 4802.6 | 4889.8 | 5010.9 | 5058.2 | 5077.5 | 4957.6 | 4731.2 | 4459.9 | 4375.1 | 4403.0 |
| 42.5° | 5147.8 | 5144.1 | 5261.5 | 5396.0 | 5452.9 | 5431.1 | 5279.8 | 5020.6 | 4744.5 | 4647.7 | 4671.8 |
| 45°   | 5420.2 | 5415.4 | 5559.5 | 5748.4 | 5859.7 | 5823.4 | 5620.0 | 5340.2 | 5032.6 | 4932.2 | 4955.2 |
| 47.5° | 5629.7 | 5632.1 | 5787.2 | 6020.8 | 6215.8 | 6229.1 | 5967.5 | 5666.0 | 5350.0 | 5236.1 | 5270.0 |
| 50°   | 5781.1 | 5788.3 | 5954.2 | 6213.3 | 6479.7 | 6597.2 | 6322.3 | 6000.2 | 5678.1 | 5549.8 | 5588.5 |
| 52.5° | 5818.6 | 5831.9 | 6031.7 | 6335.6 | 6649.3 | 6873.3 | 6683.2 | 6321.2 | 5989.4 | 5867.0 | 5898.6 |
| 55°   | 5618.7 | 5645.4 | 5898.6 | 6326.0 | 6753.4 | 7055.0 | 7000.4 | 6646.9 | 6302.9 | 6177.1 | 6212.1 |
| 57.5° | 5159.8 | 5197.4 | 5492.9 | 6051.1 | 6730.5 | 7179.7 | 7246.3 | 6959.3 | 6616.6 | 6495.5 | 6523.4 |
| 60°   | 4516.9 | 4561.7 | 4845.0 | 5454.1 | 6405.9 | 7225.7 | 7419.5 | 7263.3 | 6904.8 | 6787.3 | 6812.8 |
| 62.5° | 3546.9 | 3605.0 | 3944.1 | 4658.5 | 5720.5 | 7011.4 | 7567.2 | 7538.2 | 7163.9 | 7017.5 | 7034.4 |
| 65°   | 2275.4 | 2337.1 | 2694.3 | 3538.4 | 4806.2 | 6355.0 | 7613.2 | 7805.8 | 7437.6 | 7233.0 | 7258.4 |
| 67.5° | 1372.0 | 1399.8 | 1576.7 | 2144.6 | 3513.0 | 5365.7 | 7223.3 | 8102.4 | 7757.3 | 7503.0 | 7522.4 |
| 70°   | 877.9  | 893.7  | 999.1  | 1259.4 | 1985.9 | 3915.0 | 6257.0 | 8158.2 | 8144.9 | 7780.4 | 7777.9 |
| 72.5° | 595.8  | 600.6  | 628.5  | 745.9  | 1123.7 | 2224.6 | 4615.0 | 7385.5 | 8387.1 | 8137.6 | 8098.8 |
| 75°   | 435.9  | 462.6  | 507.4  | 528.0  | 638.2  | 1111.6 | 2644.7 | 5188.9 | 7068.3 | 7177.3 | 6913.3 |
| 77.5° | 324.5  | 325.7  | 387.6  | 411.7  | 455.3  | 592.1  | 1118.9 | 2896.5 | 4388.4 | 4607.7 | 4109.9 |
| 80°   | 274.9  | 260.3  | 259.1  | 331.8  | 342.7  | 369.3  | 500.1  | 1000.2 | 1571.8 | 953.0  | 720.5  |
| 82.5° | 228.9  | 213.1  | 192.5  | 259.1  | 233.7  | 226.4  | 216.8  | 406.9  | 500.1  | 245.8  | 209.5  |
| 85°   | 159.8  | 152.6  | 145.3  | 169.5  | 133.2  | 113.9  | 104.1  | 190.1  | 210.7  | 104.1  | 92.0   |
| 87.5° | 69.0   | 71.4   | 72.7   | 75.0   | 55.7   | 40.0   | 40.0   | 53.3   | 53.3   | 41.2   | 30.2   |
| 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)