

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: P970352

Luminaire Tested: **NAV-SB6B-735-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970352  
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-SB6B-735-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36042.1 lumens  
Efficiency: N/A  
Efficacy: 163.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B5 - U0 - G5

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

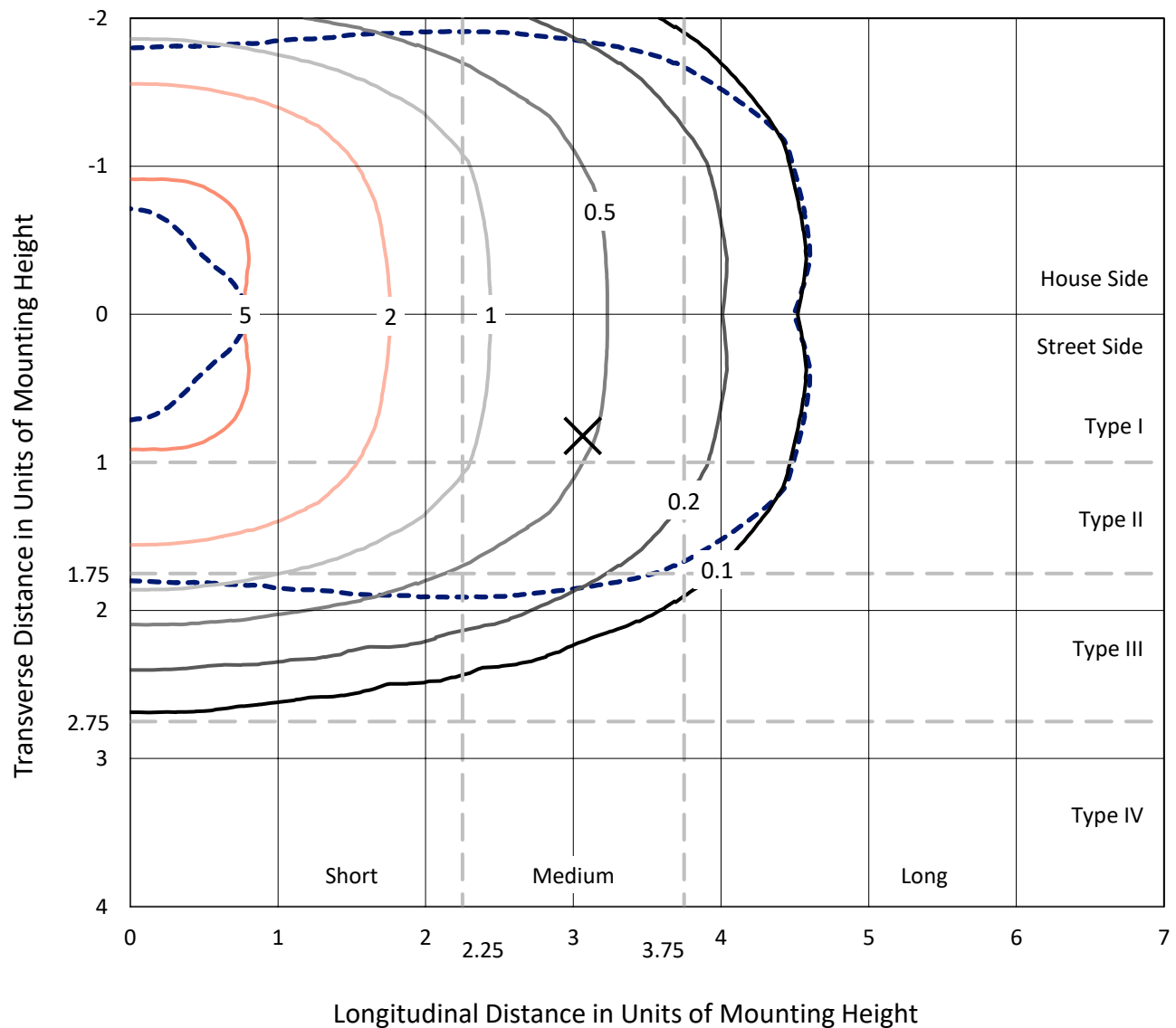


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## Iso-Footcandle Lines of Horizontal Illumination

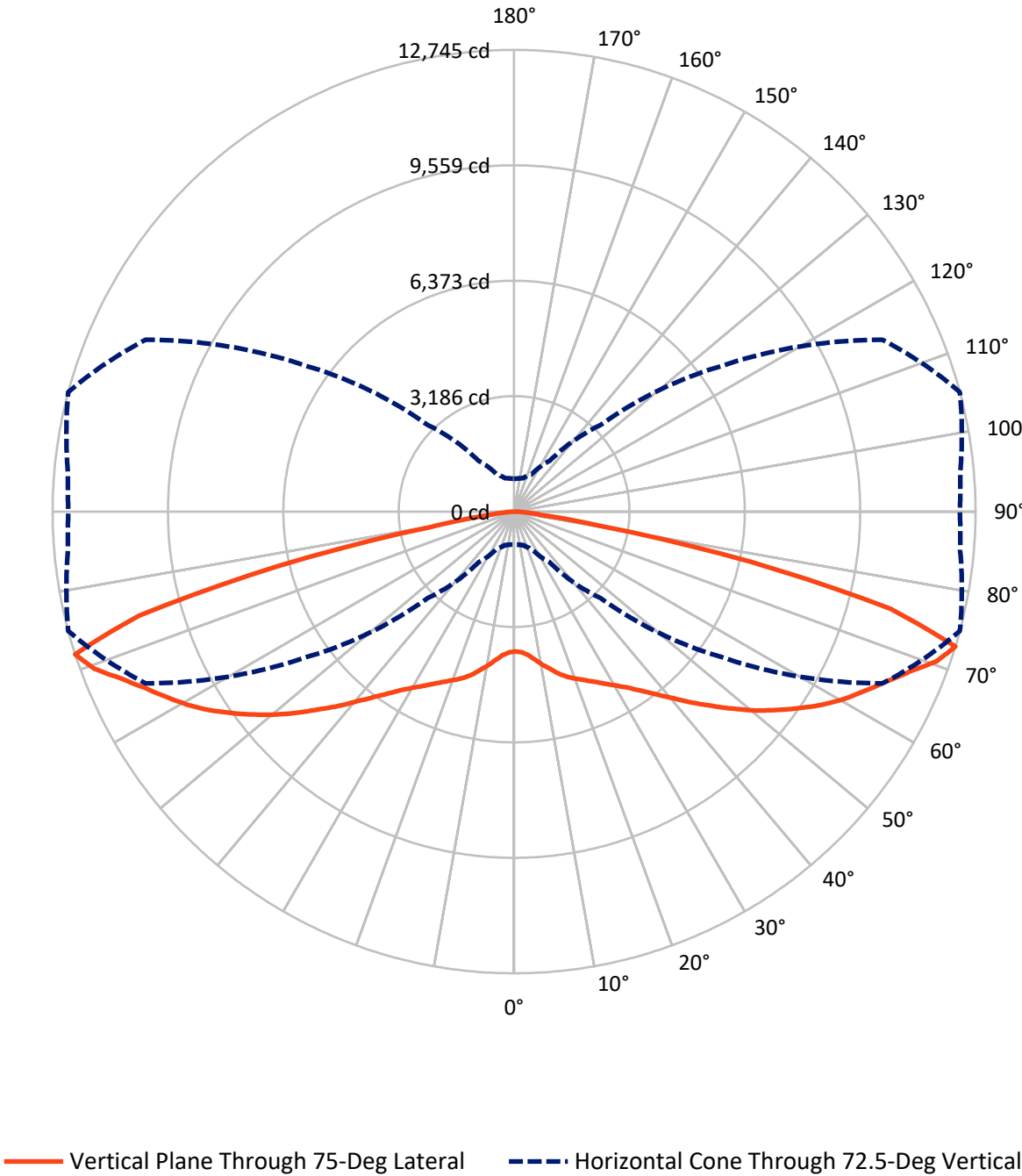
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 18021.0  | 0.0    | 18021.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 18021.0  | 0.0    | 18021.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 36042.1  | 0.0    | 36042.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 378.2   | 1.0       |
| 10°-20°   | 1247.4  | 3.5       |
| 20°-30°   | 2410.3  | 6.7       |
| 30°-40°   | 4069.9  | 11.3      |
| 40°-50°   | 6454.4  | 17.9      |
| 50°-60°   | 8641.6  | 24.0      |
| 60°-70°   | 8224.1  | 22.8      |
| 70°-80°   | 4291.5  | 11.9      |
| 80°-90°   | 324.8   | 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°    | 36042.1 | 100.0     |
| 0°-180°   | 36042.1 | 100.0     |

**Coefficient of Utilization**



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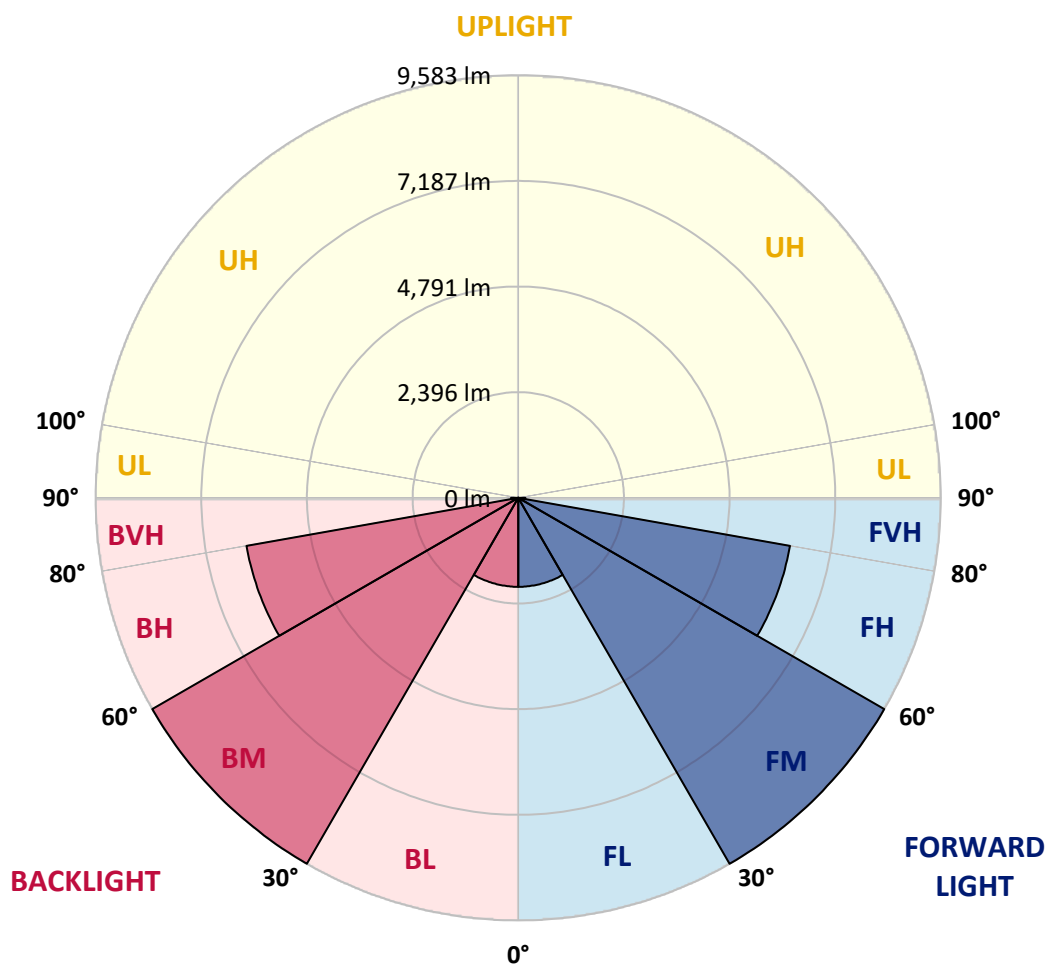
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2017.9 | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 9582.9 | 26.6      |                         |      |         |
| FH   | (60°-80°)   | 6257.8 | 17.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 162.4  | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 2017.9 | 5.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 9582.9 | 26.6      | B5                      |      |         |
| BH   | (60°-80°)   | 6257.8 | 17.4      | B5                      |      | G5      |
| BVH  | (80°-90°)   | 162.4  | 0.5       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3860.8 | 3860.8 | 3860.8 | 3860.8 | 3860.8  | 3860.8  | 3860.8  | 3860.8  | 3860.8  | 3860.8  | 3860.8  |
| 2.5°  | 3860.8 | 3857.1 | 3860.8 | 3864.5 | 3862.6  | 3862.6  | 3871.8  | 3877.3  | 3888.3  | 3886.5  | 3884.6  |
| 5°    | 3835.0 | 3833.2 | 3847.8 | 3864.5 | 3877.3  | 3899.4  | 3927.0  | 3947.3  | 3973.0  | 3978.5  | 3978.5  |
| 7.5°  | 3822.1 | 3816.6 | 3842.3 | 3871.8 | 3912.3  | 3967.5  | 4020.9  | 4076.0  | 4120.2  | 4135.0  | 4138.6  |
| 10°   | 3831.3 | 3833.2 | 3868.1 | 3923.3 | 3987.8  | 4065.0  | 4140.5  | 4234.3  | 4296.9  | 4311.6  | 4326.3  |
| 12.5° | 3873.7 | 3870.0 | 3928.8 | 4017.2 | 4105.5  | 4203.0  | 4291.4  | 4394.4  | 4462.5  | 4497.5  | 4512.2  |
| 15°   | 3951.0 | 3943.6 | 4026.4 | 4157.0 | 4285.8  | 4399.9  | 4471.7  | 4569.2  | 4648.4  | 4692.6  | 4709.1  |
| 17.5° | 4042.9 | 4046.6 | 4155.1 | 4324.5 | 4493.8  | 4622.6  | 4690.7  | 4740.4  | 4801.1  | 4839.7  | 4858.2  |
| 20°   | 4204.9 | 4212.2 | 4333.7 | 4534.3 | 4727.5  | 4874.7  | 4929.9  | 4911.5  | 4928.1  | 4957.5  | 4979.6  |
| 22.5° | 4422.1 | 4425.7 | 4561.9 | 4779.1 | 4981.4  | 5143.3  | 5180.1  | 5104.7  | 5058.7  | 5079.0  | 5093.7  |
| 25°   | 4674.1 | 4698.1 | 4834.2 | 5056.8 | 5264.8  | 5419.4  | 5436.0  | 5321.9  | 5207.8  | 5213.3  | 5222.5  |
| 27.5° | 4981.4 | 5003.5 | 5141.5 | 5362.4 | 5574.0  | 5708.3  | 5706.5  | 5553.8  | 5386.3  | 5343.9  | 5356.9  |
| 30°   | 5314.5 | 5338.4 | 5480.2 | 5708.3 | 5905.2  | 6023.0  | 5997.3  | 5815.0  | 5575.8  | 5496.7  | 5505.9  |
| 32.5° | 5710.2 | 5724.8 | 5868.4 | 6096.6 | 6278.7  | 6372.6  | 6319.2  | 6094.8  | 5796.7  | 5706.5  | 5728.5  |
| 35°   | 6188.6 | 6210.7 | 6317.4 | 6532.7 | 6692.8  | 6770.1  | 6679.9  | 6415.0  | 6080.0  | 5978.8  | 5993.6  |
| 37.5° | 6735.2 | 6720.4 | 6841.9 | 7033.2 | 7165.8  | 7213.6  | 7090.3  | 6775.7  | 6403.9  | 6284.3  | 6306.4  |
| 40°   | 7305.6 | 7298.2 | 7430.7 | 7614.7 | 7686.6  | 7716.0  | 7533.9  | 7189.7  | 6777.5  | 6648.7  | 6691.0  |
| 42.5° | 7822.7 | 7817.2 | 7995.7 | 8200.0 | 8286.4  | 8253.3  | 8023.3  | 7629.5  | 7210.0  | 7062.7  | 7099.6  |
| 45°   | 8236.8 | 8229.4 | 8448.4 | 8735.5 | 8904.8  | 8849.5  | 8540.4  | 8115.3  | 7647.9  | 7495.1  | 7530.2  |
| 47.5° | 8555.2 | 8558.8 | 8794.3 | 9149.5 | 9445.8  | 9466.0  | 9068.5  | 8610.3  | 8130.0  | 7957.1  | 8008.5  |
| 50°   | 8785.2 | 8796.1 | 9048.3 | 9442.1 | 9847.0  | 10025.4 | 9607.7  | 9118.2  | 8628.8  | 8433.7  | 8492.5  |
| 52.5° | 8842.2 | 8862.5 | 9166.1 | 9627.9 | 10104.6 | 10445.1 | 10156.1 | 9605.9  | 9101.7  | 8915.8  | 8963.6  |
| 55°   | 8538.6 | 8579.0 | 8963.6 | 9613.3 | 10262.8 | 10721.0 | 10638.3 | 10100.9 | 9578.3  | 9386.8  | 9440.2  |
| 57.5° | 7841.1 | 7898.1 | 8347.2 | 9195.5 | 10227.9 | 10910.6 | 11011.8 | 10575.6 | 10054.8 | 9870.9  | 9913.2  |
| 60°   | 6864.0 | 6932.1 | 7362.7 | 8288.3 | 9734.7  | 10980.5 | 11274.9 | 11037.5 | 10492.8 | 10314.4 | 10353.0 |
| 62.5° | 5390.0 | 5478.3 | 5993.6 | 7079.3 | 8693.1  | 10654.8 | 11499.5 | 11455.3 | 10886.6 | 10664.0 | 10689.7 |
| 65°   | 3457.7 | 3551.6 | 4094.5 | 5377.0 | 7303.7  | 9657.4  | 11569.4 | 11861.9 | 11302.6 | 10991.6 | 11030.2 |
| 67.5° | 2085.0 | 2127.3 | 2395.9 | 3259.0 | 5338.4  | 8154.0  | 10976.8 | 12312.8 | 11788.3 | 11401.9 | 11431.3 |
| 70°   | 1334.1 | 1358.0 | 1518.1 | 1913.8 | 3017.9  | 5949.4  | 9508.3  | 12397.5 | 12377.2 | 11823.3 | 11819.7 |
| 72.5° | 905.4  | 912.8  | 955.1  | 1133.5 | 1707.8  | 3380.4  | 7013.0  | 11223.4 | 12745.3 | 12366.2 | 12307.3 |
| 75°   | 662.5  | 702.9  | 771.0  | 802.4  | 969.8   | 1689.3  | 4019.0  | 7885.3  | 10741.3 | 10906.9 | 10505.7 |
| 77.5° | 493.1  | 495.0  | 588.9  | 625.7  | 691.9   | 899.8   | 1700.4  | 4401.8  | 6668.9  | 7002.0  | 6245.6  |
| 80°   | 417.7  | 395.6  | 393.8  | 504.2  | 520.8   | 561.3   | 760.0   | 1520.0  | 2388.6  | 1448.2  | 1094.9  |
| 82.5° | 347.8  | 323.9  | 292.6  | 393.8  | 355.2   | 344.1   | 329.4   | 618.3   | 760.0   | 373.6   | 318.4   |
| 85°   | 242.9  | 231.9  | 220.8  | 257.6  | 202.4   | 173.0   | 158.3   | 288.9   | 320.2   | 158.3   | 139.8   |
| 87.5° | 104.9  | 108.5  | 110.4  | 114.1  | 84.7    | 60.7    | 60.7    | 81.0    | 81.0    | 62.5    | 46.0    |
| 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)