

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: P971003

Luminaire Tested: **NAV-SB6C-827-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P971003  
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-SB6C-827-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41682.6 lumens  
Efficiency: N/A  
Efficacy: 138.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B5 - U0 - G5

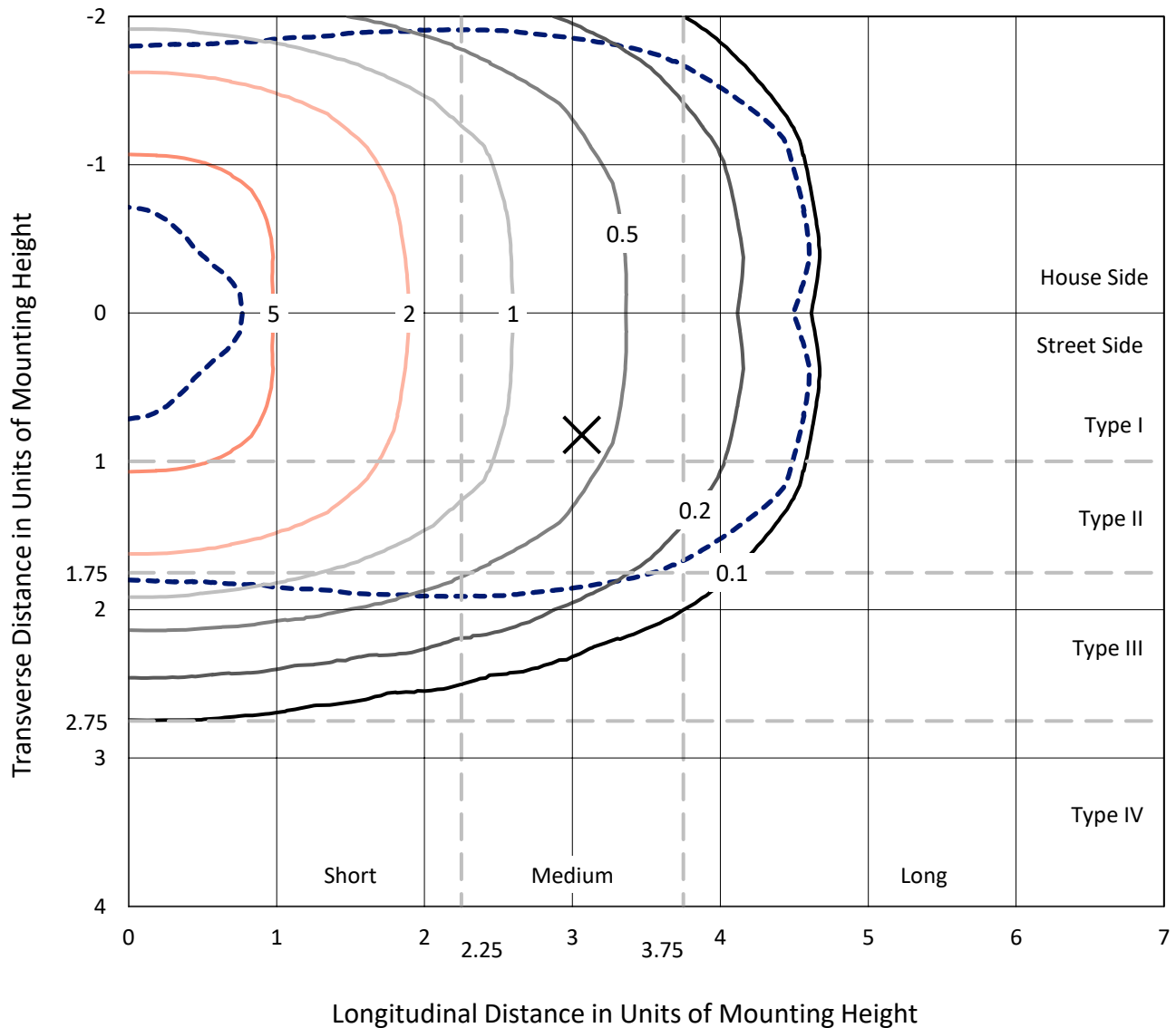
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

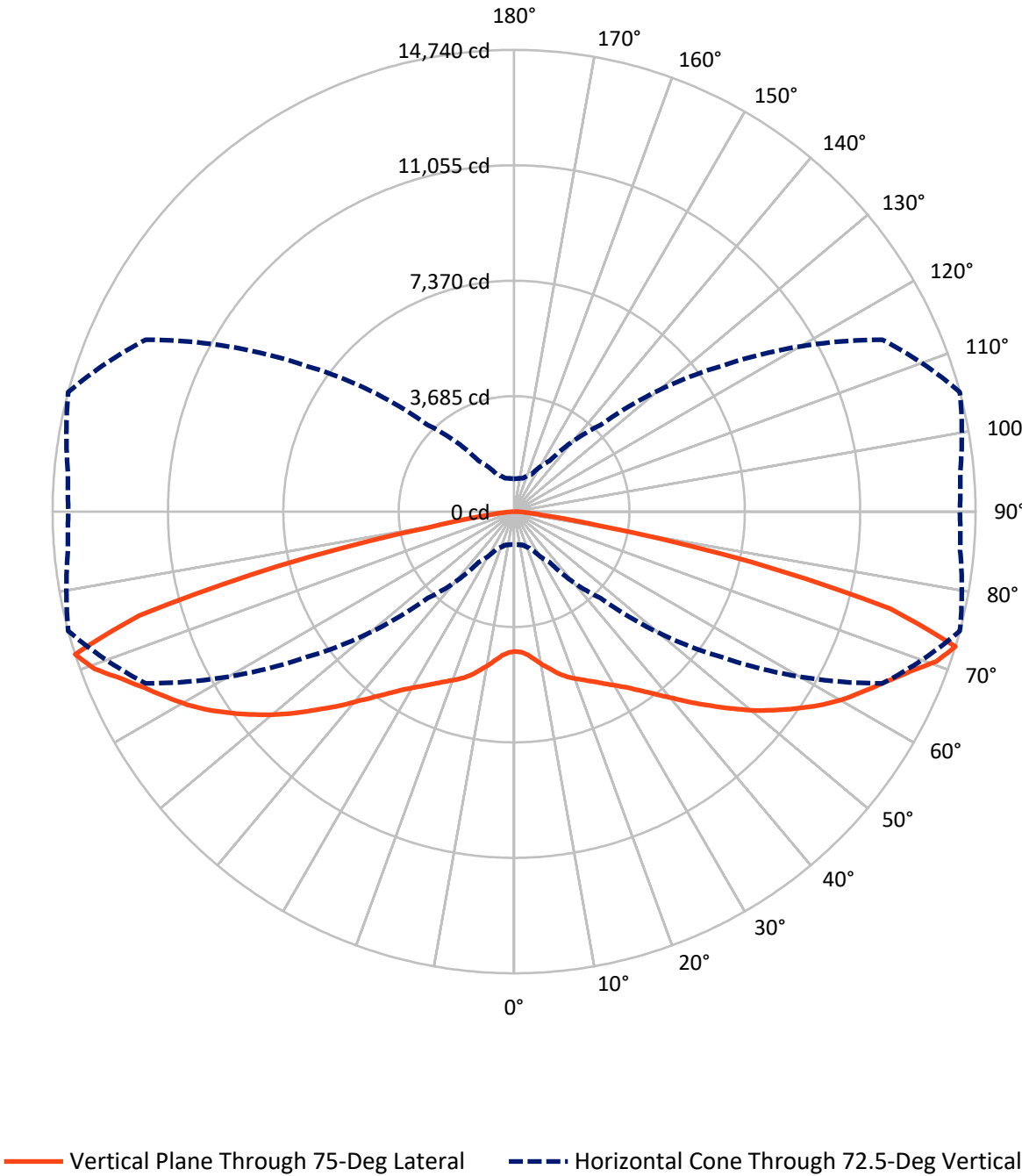
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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    | 20841.3  | 0.0    | 20841.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 20841.3  | 0.0    | 20841.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 41682.6  | 0.0    | 41682.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 437.4   | 1.0       |
| 10°-20°   | 1442.6  | 3.5       |
| 20°-30°   | 2787.5  | 6.7       |
| 30°-40°   | 4706.8  | 11.3      |
| 40°-50°   | 7464.5  | 17.9      |
| 50°-60°   | 9994.1  | 24.0      |
| 60°-70°   | 9511.1  | 22.8      |
| 70°-80°   | 4963.1  | 11.9      |
| 80°-90°   | 375.7   | 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°    | 41682.6 | 100.0     |
| 0°-180°   | 41682.6 | 100.0     |

**Coefficient of Utilization**



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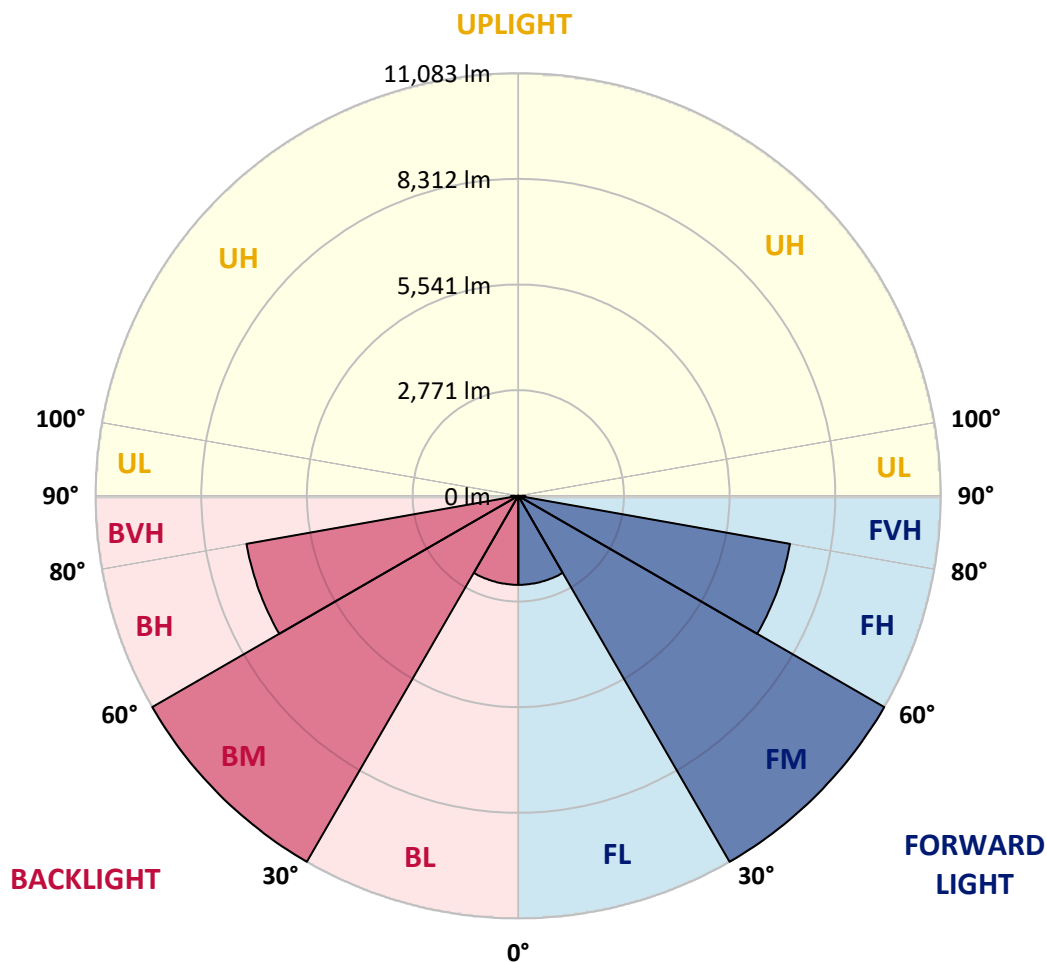
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2333.7  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 11082.7 | 26.6      |                         |      |         |
| FH   | (60°-80°)   | 7237.1  | 17.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 187.8   | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 2333.7  | 5.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 11082.7 | 26.6      | B5                      |      |         |
| BH   | (60°-80°)   | 7237.1  | 17.4      | B5                      |      | G5      |
| BVH  | (80°-90°)   | 187.8   | 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°    | 4465.0  | 4465.0  | 4465.0  | 4465.0  | 4465.0  | 4465.0  | 4465.0  | 4465.0  | 4465.0  | 4465.0  | 4465.0  |
| 2.5°  | 4465.0  | 4460.7  | 4465.0  | 4469.2  | 4467.1  | 4467.1  | 4477.7  | 4484.1  | 4496.9  | 4494.7  | 4492.6  |
| 5°    | 4435.2  | 4433.0  | 4450.0  | 4469.2  | 4484.1  | 4509.7  | 4541.6  | 4564.9  | 4594.8  | 4601.1  | 4601.1  |
| 7.5°  | 4420.3  | 4413.9  | 4443.7  | 4477.7  | 4524.6  | 4588.4  | 4650.1  | 4714.0  | 4765.0  | 4782.0  | 4786.3  |
| 10°   | 4430.9  | 4433.0  | 4473.5  | 4537.4  | 4611.8  | 4701.2  | 4788.5  | 4896.9  | 4969.3  | 4986.3  | 5003.4  |
| 12.5° | 4479.9  | 4475.6  | 4543.7  | 4645.8  | 4748.0  | 4860.8  | 4962.9  | 5082.2  | 5160.9  | 5201.4  | 5218.4  |
| 15°   | 4569.2  | 4560.7  | 4656.5  | 4807.6  | 4956.6  | 5088.5  | 5171.5  | 5284.3  | 5375.8  | 5426.9  | 5446.0  |
| 17.5° | 4675.6  | 4679.9  | 4805.5  | 5001.3  | 5197.1  | 5346.0  | 5424.8  | 5482.2  | 5552.4  | 5597.1  | 5618.4  |
| 20°   | 4862.9  | 4871.4  | 5011.9  | 5243.9  | 5467.3  | 5637.6  | 5701.5  | 5680.1  | 5699.3  | 5733.3  | 5758.9  |
| 22.5° | 5114.0  | 5118.3  | 5275.8  | 5526.9  | 5761.0  | 5948.3  | 5990.9  | 5903.6  | 5850.4  | 5873.9  | 5890.9  |
| 25°   | 5405.6  | 5433.3  | 5590.8  | 5848.2  | 6088.8  | 6267.6  | 6286.7  | 6154.7  | 6022.8  | 6029.2  | 6039.8  |
| 27.5° | 5761.0  | 5786.5  | 5946.2  | 6201.6  | 6446.3  | 6601.7  | 6599.6  | 6422.9  | 6229.2  | 6180.2  | 6195.2  |
| 30°   | 6146.2  | 6173.9  | 6337.8  | 6601.7  | 6829.4  | 6965.6  | 6935.8  | 6725.1  | 6448.5  | 6356.9  | 6367.6  |
| 32.5° | 6603.8  | 6620.8  | 6786.8  | 7050.7  | 7261.4  | 7370.0  | 7308.2  | 7048.6  | 6703.8  | 6599.6  | 6625.1  |
| 35°   | 7157.2  | 7182.7  | 7306.1  | 7555.1  | 7740.3  | 7829.7  | 7725.3  | 7418.8  | 7031.6  | 6914.5  | 6931.6  |
| 37.5° | 7789.2  | 7772.2  | 7912.6  | 8134.0  | 8287.2  | 8342.6  | 8199.9  | 7836.0  | 7406.1  | 7267.8  | 7293.3  |
| 40°   | 8449.0  | 8440.5  | 8593.7  | 8806.5  | 8889.5  | 8923.5  | 8712.8  | 8314.9  | 7838.2  | 7689.1  | 7738.1  |
| 42.5° | 9047.0  | 9040.6  | 9247.0  | 9483.2  | 9583.2  | 9545.0  | 9278.9  | 8823.5  | 8338.3  | 8168.0  | 8210.6  |
| 45°   | 9525.8  | 9517.3  | 9770.5  | 10102.5 | 10298.4 | 10234.5 | 9877.0  | 9385.3  | 8844.8  | 8668.1  | 8708.6  |
| 47.5° | 9894.0  | 9898.2  | 10170.7 | 10581.4 | 10924.0 | 10947.4 | 10487.8 | 9957.9  | 9402.3  | 9202.3  | 9261.9  |
| 50°   | 10160.0 | 10172.8 | 10464.3 | 10919.7 | 11388.0 | 11594.4 | 11111.3 | 10545.2 | 9979.1  | 9753.5  | 9821.7  |
| 52.5° | 10226.0 | 10249.4 | 10600.6 | 11134.7 | 11685.9 | 12079.6 | 11745.5 | 11109.2 | 10526.0 | 10311.1 | 10366.4 |
| 55°   | 9874.8  | 9921.7  | 10366.4 | 11117.7 | 11869.0 | 12398.9 | 12303.1 | 11681.7 | 11077.3 | 10856.0 | 10917.7 |
| 57.5° | 9068.3  | 9134.2  | 9653.6  | 10634.6 | 11828.5 | 12618.1 | 12735.1 | 12230.7 | 11628.4 | 11415.6 | 11464.6 |
| 60°   | 7938.2  | 8016.9  | 8514.9  | 9585.4  | 11258.2 | 12698.9 | 13039.4 | 12764.9 | 12135.0 | 11928.5 | 11973.2 |
| 62.5° | 6233.5  | 6335.6  | 6931.6  | 8187.2  | 10053.6 | 12322.2 | 13299.1 | 13248.0 | 12590.4 | 12332.9 | 12362.7 |
| 65°   | 3998.8  | 4107.4  | 4735.2  | 6218.6  | 8446.8  | 11168.8 | 13379.9 | 13718.4 | 13071.4 | 12711.7 | 12756.4 |
| 67.5° | 2411.2  | 2460.2  | 2770.9  | 3769.0  | 6173.9  | 9430.0  | 12694.7 | 14239.8 | 13633.2 | 13186.3 | 13220.3 |
| 70°   | 1542.9  | 1570.6  | 1755.7  | 2213.3  | 3490.2  | 6880.4  | 10996.4 | 14337.7 | 14314.2 | 13673.7 | 13669.4 |
| 72.5° | 1047.0  | 1055.5  | 1104.5  | 1311.0  | 1975.0  | 3909.5  | 8110.5  | 12979.9 | 14739.9 | 14301.5 | 14233.4 |
| 75°   | 766.2   | 812.9   | 891.7   | 927.9   | 1121.6  | 1953.6  | 4648.0  | 9119.3  | 12422.3 | 12613.9 | 12149.8 |
| 77.5° | 570.3   | 572.5   | 681.0   | 723.5   | 800.2   | 1040.7  | 1966.5  | 5090.7  | 7712.6  | 8097.8  | 7223.1  |
| 80°   | 483.1   | 457.6   | 455.4   | 583.1   | 602.3   | 649.1   | 878.9   | 1757.9  | 2762.4  | 1674.8  | 1266.3  |
| 82.5° | 402.2   | 374.5   | 338.4   | 455.4   | 410.7   | 398.0   | 381.0   | 715.0   | 878.9   | 432.0   | 368.2   |
| 85°   | 281.0   | 268.1   | 255.4   | 298.0   | 234.1   | 200.1   | 183.1   | 334.2   | 370.3   | 183.1   | 161.7   |
| 87.5° | 121.3   | 125.6   | 127.7   | 131.9   | 97.9    | 70.2    | 70.2    | 93.7    | 93.7    | 72.4    | 53.2    |
| 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)