

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: P960009

Luminaire Tested: **NAV-SB1B-835-U-T1**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P960009  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1B-835-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

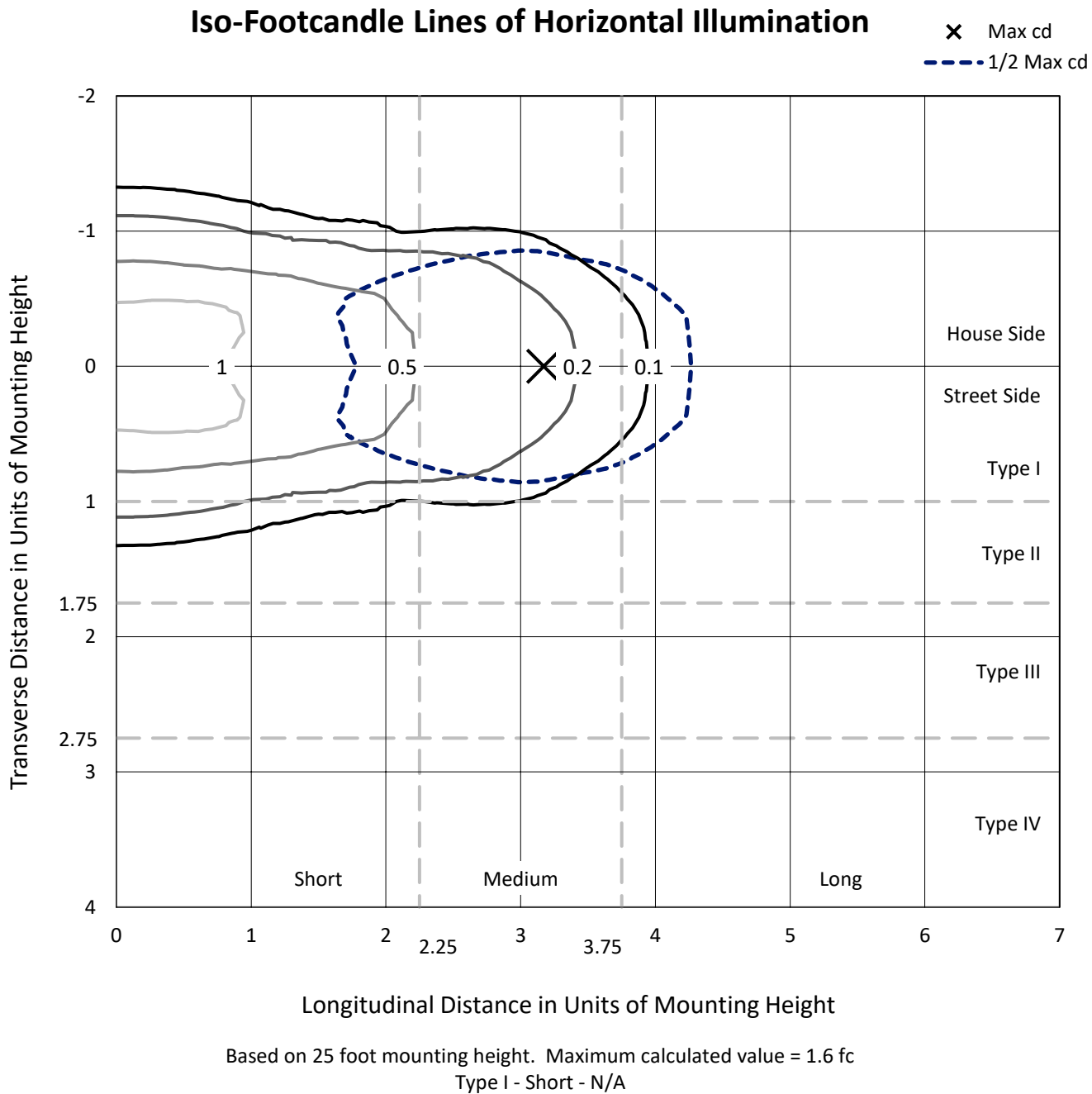
### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5298.2 lumens  
Efficiency: N/A  
Efficacy: 133.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 39.8  
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

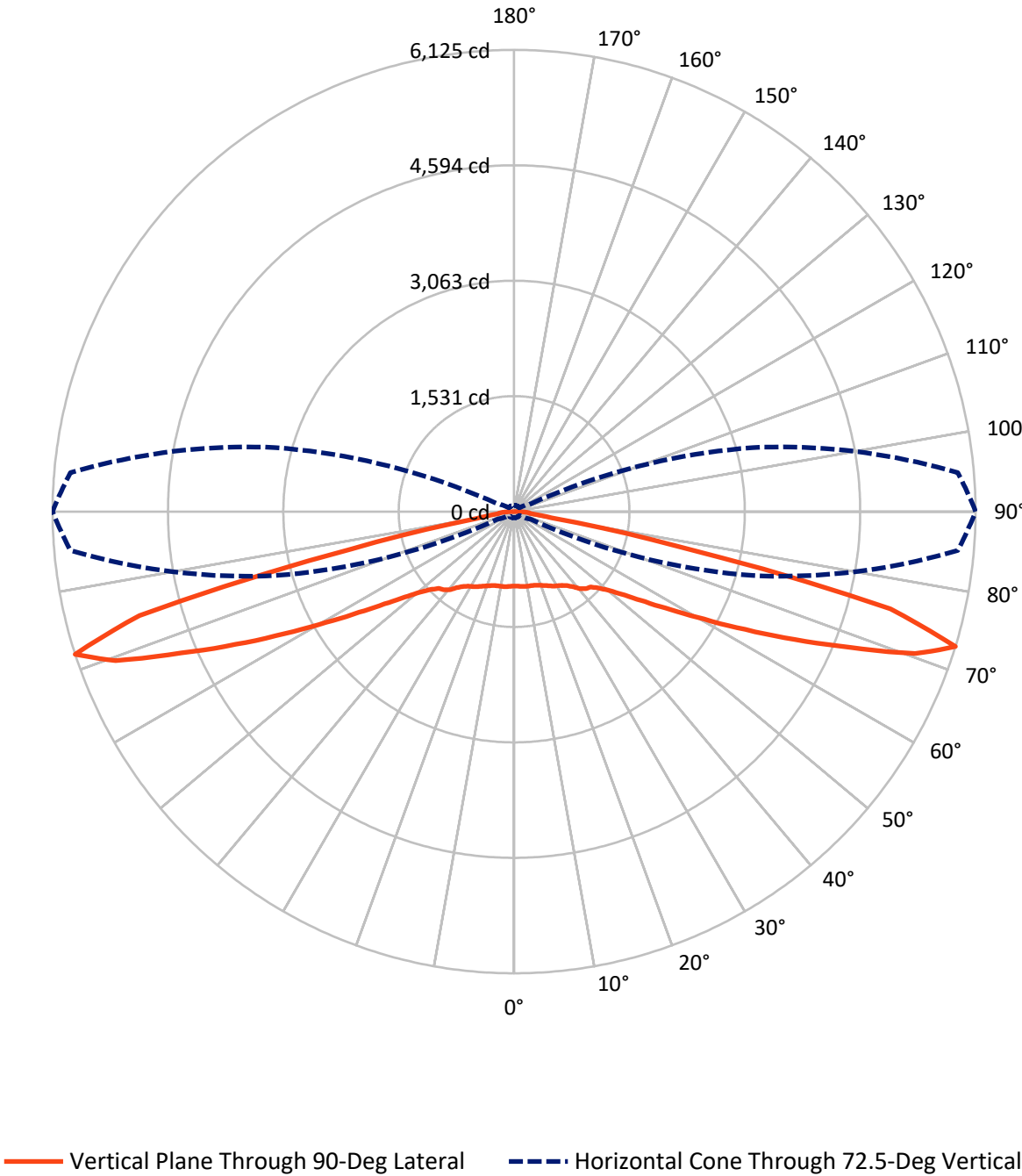


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Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2649.1   | 0.0    | 2649.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2649.1   | 0.0    | 2649.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5298.2   | 0.0    | 5298.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 96.0   | 1.8       |
| 10°-20°   | 293.5  | 5.5       |
| 20°-30°   | 489.4  | 9.2       |
| 30°-40°   | 673.1  | 12.7      |
| 40°-50°   | 822.0  | 15.5      |
| 50°-60°   | 950.8  | 17.9      |
| 60°-70°   | 1133.6 | 21.4      |
| 70°-80°   | 791.2  | 14.9      |
| 80°-90°   | 48.6   | 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°    | 5298.2 | 100.0     |
| 0°-180°   | 5298.2 | 100.0     |

**Coefficient of Utilization**



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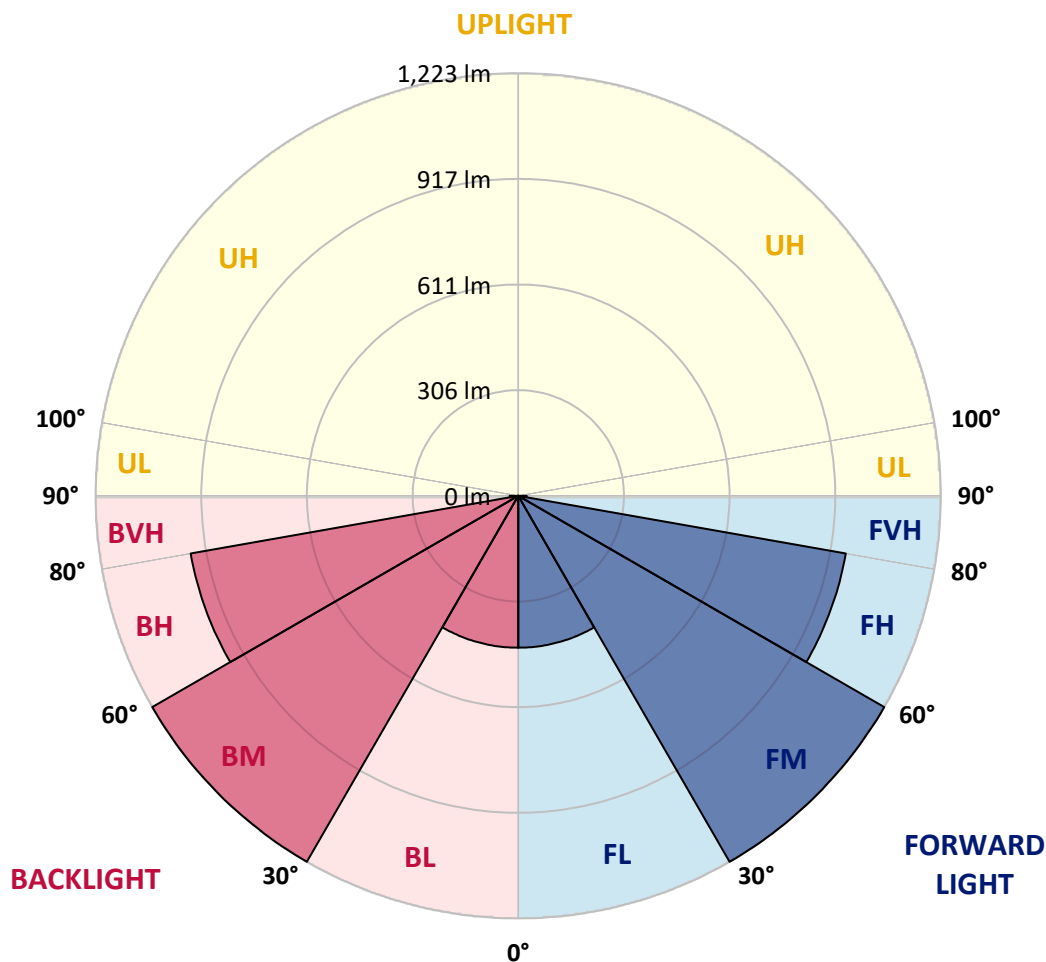
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 439.5  | 8.3       |                         |      |         |
| FM   | (30°-60°)   | 1222.9 | 23.1      |                         |      |         |
| FH   | (60°-80°)   | 962.4  | 18.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 24.3   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 439.5  | 8.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1222.9 | 23.1      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 962.4  | 18.2      | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 24.3   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 990.0  | 990.0  | 990.0  | 990.0  | 990.0  | 990.0  | 990.0  | 990.0  | 990.0  | 990.0  | 990.0  |
| 2.5°  | 990.9  | 992.0  | 992.0  | 991.2  | 993.1  | 991.5  | 991.5  | 990.6  | 991.5  | 990.6  | 990.6  |
| 5°    | 996.0  | 997.3  | 997.9  | 997.6  | 1000.2 | 998.8  | 998.8  | 997.6  | 997.9  | 997.0  | 997.0  |
| 7.5°  | 1005.5 | 1007.5 | 1008.6 | 1010.0 | 1013.7 | 1012.0 | 1010.9 | 1007.5 | 1006.0 | 1003.8 | 1003.8 |
| 10°   | 1008.6 | 1010.9 | 1014.5 | 1021.8 | 1030.3 | 1030.5 | 1027.2 | 1018.7 | 1012.3 | 1007.2 | 1006.3 |
| 12.5° | 999.1  | 1002.1 | 1009.7 | 1024.7 | 1043.6 | 1051.1 | 1045.8 | 1031.7 | 1019.1 | 1010.0 | 1008.6 |
| 15°   | 987.0  | 990.4  | 1001.8 | 1024.4 | 1052.3 | 1070.0 | 1069.5 | 1050.8 | 1030.5 | 1016.5 | 1014.2 |
| 17.5° | 968.1  | 971.5  | 988.1  | 1019.6 | 1059.0 | 1088.3 | 1096.1 | 1077.1 | 1048.6 | 1029.7 | 1026.6 |
| 20°   | 934.0  | 937.1  | 960.2  | 1004.4 | 1061.3 | 1107.7 | 1128.3 | 1111.4 | 1075.9 | 1050.3 | 1045.5 |
| 22.5° | 889.8  | 894.6  | 921.6  | 978.2  | 1056.0 | 1128.0 | 1164.9 | 1153.3 | 1107.7 | 1072.3 | 1065.8 |
| 25°   | 842.4  | 847.6  | 879.0  | 946.1  | 1042.1 | 1142.7 | 1208.3 | 1200.9 | 1143.8 | 1099.5 | 1090.6 |
| 27.5° | 801.7  | 807.0  | 841.3  | 914.3  | 1020.7 | 1148.3 | 1251.0 | 1254.7 | 1187.5 | 1129.7 | 1120.1 |
| 30°   | 769.6  | 774.6  | 811.2  | 888.7  | 993.1  | 1142.7 | 1288.5 | 1313.8 | 1231.9 | 1155.9 | 1142.1 |
| 32.5° | 734.3  | 740.9  | 779.4  | 857.4  | 960.4  | 1129.1 | 1321.1 | 1377.8 | 1283.4 | 1184.1 | 1166.6 |
| 35°   | 689.8  | 695.8  | 736.4  | 814.6  | 917.7  | 1107.4 | 1348.5 | 1448.7 | 1357.2 | 1226.8 | 1207.4 |
| 37.5° | 635.8  | 641.4  | 681.7  | 761.1  | 875.1  | 1077.1 | 1369.3 | 1528.7 | 1445.0 | 1288.5 | 1262.6 |
| 40°   | 581.5  | 586.8  | 624.5  | 701.4  | 824.2  | 1038.2 | 1376.7 | 1607.0 | 1545.9 | 1373.3 | 1345.6 |
| 42.5° | 531.7  | 536.4  | 571.0  | 642.6  | 767.0  | 988.6  | 1367.0 | 1675.2 | 1636.2 | 1432.4 | 1396.9 |
| 45°   | 485.7  | 489.9  | 520.6  | 587.3  | 707.6  | 928.3  | 1338.3 | 1748.3 | 1743.8 | 1474.7 | 1426.8 |
| 47.5° | 433.4  | 437.6  | 469.3  | 533.9  | 648.2  | 857.7  | 1289.7 | 1820.4 | 1893.4 | 1570.4 | 1515.2 |
| 50°   | 369.4  | 373.1  | 405.8  | 472.2  | 586.5  | 782.5  | 1222.0 | 1877.0 | 2082.0 | 1715.3 | 1646.2 |
| 52.5° | 293.7  | 297.7  | 329.4  | 395.9  | 513.3  | 701.7  | 1133.0 | 1913.9 | 2299.9 | 1927.1 | 1841.8 |
| 55°   | 218.5  | 221.3  | 248.9  | 308.6  | 422.6  | 609.6  | 1021.5 | 1924.3 | 2547.1 | 2216.6 | 2109.9 |
| 57.5° | 158.6  | 160.2  | 177.9  | 222.4  | 320.4  | 494.5  | 886.1  | 1897.3 | 2841.4 | 2587.7 | 2453.4 |
| 60°   | 128.4  | 128.9  | 134.3  | 154.1  | 222.7  | 364.4  | 722.5  | 1804.3 | 3160.7 | 3066.1 | 2896.9 |
| 62.5° | 116.5  | 116.5  | 118.0  | 123.3  | 150.7  | 240.5  | 524.6  | 1611.7 | 3503.1 | 3670.6 | 3444.0 |
| 65°   | 108.4  | 108.4  | 109.0  | 111.5  | 118.8  | 153.1  | 331.2  | 1298.1 | 3791.8 | 4378.8 | 4092.2 |
| 67.5° | 101.1  | 101.4  | 101.1  | 101.9  | 106.2  | 113.2  | 192.1  | 896.6  | 3947.2 | 5112.6 | 4803.2 |
| 70°   | 93.5   | 94.1   | 92.7   | 92.7   | 96.0   | 96.4   | 120.2  | 491.6  | 3818.2 | 5727.6 | 5646.2 |
| 72.5° | 84.5   | 85.3   | 83.0   | 82.5   | 85.1   | 83.9   | 90.4   | 236.0  | 3278.2 | 5911.2 | 6125.2 |
| 75°   | 76.6   | 77.7   | 72.7   | 71.2   | 71.2   | 70.4   | 73.5   | 121.1  | 2127.6 | 4822.0 | 5157.7 |
| 77.5° | 69.6   | 71.9   | 63.7   | 59.1   | 58.0   | 55.5   | 60.0   | 74.0   | 930.6  | 2263.9 | 2216.9 |
| 80°   | 57.4   | 60.6   | 52.4   | 47.0   | 45.1   | 42.2   | 47.4   | 51.8   | 276.8  | 525.7  | 503.5  |
| 82.5° | 42.8   | 44.2   | 37.2   | 33.5   | 31.8   | 29.8   | 35.5   | 36.1   | 90.1   | 186.1  | 210.3  |
| 85°   | 27.3   | 27.9   | 22.9   | 19.7   | 18.9   | 18.0   | 22.5   | 19.7   | 34.3   | 136.8  | 198.7  |
| 87.5° | 9.5    | 11.0   | 8.7    | 7.9    | 8.4    | 7.1    | 10.5   | 5.9    | 9.5    | 96.6   | 119.7  |
| 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)