

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: P970972

Luminaire Tested: **NAV-SB6C-760-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970972  
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-760-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50712.9 lumens  
Efficiency: N/A  
Efficacy: 168.5 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



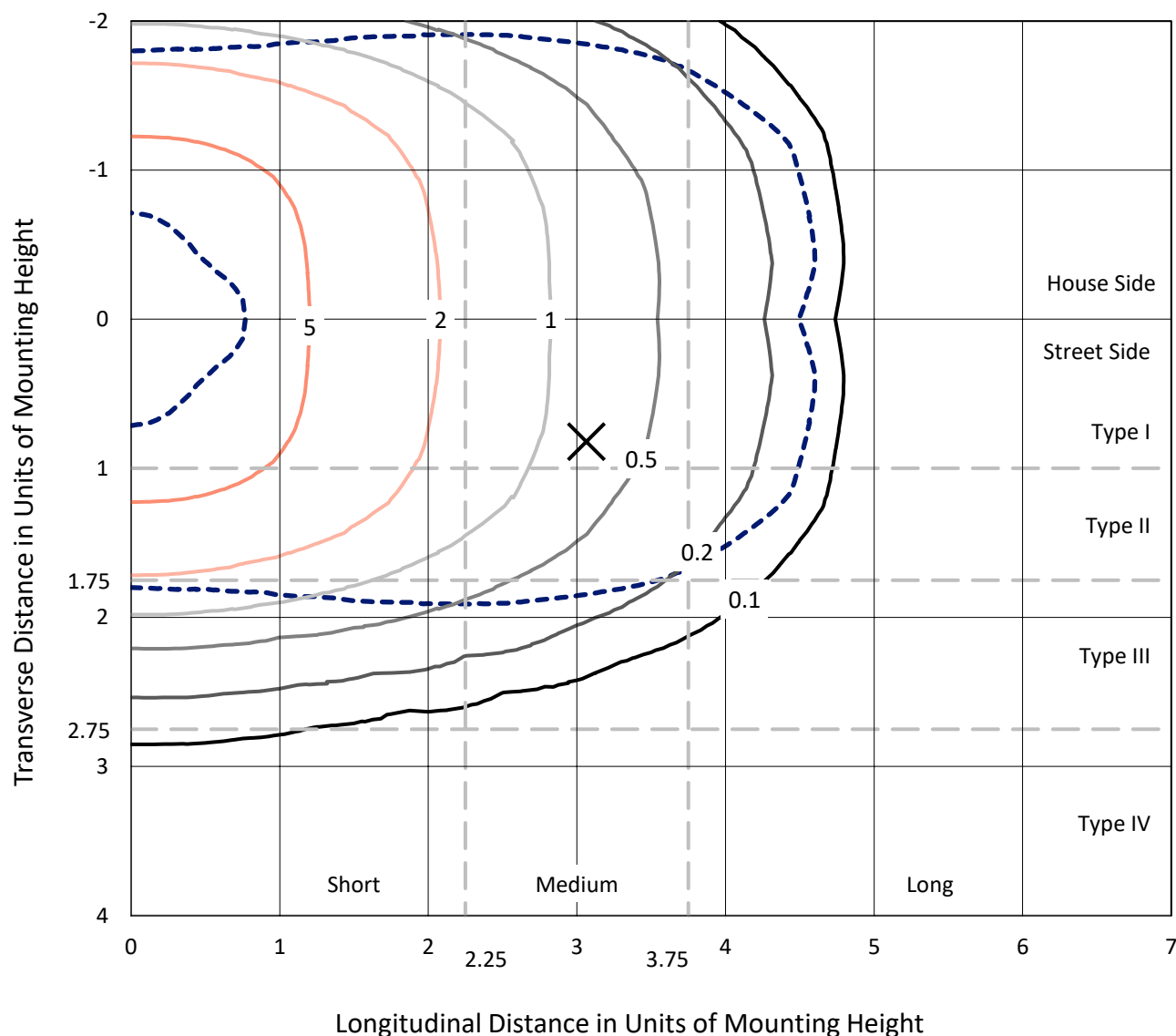
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



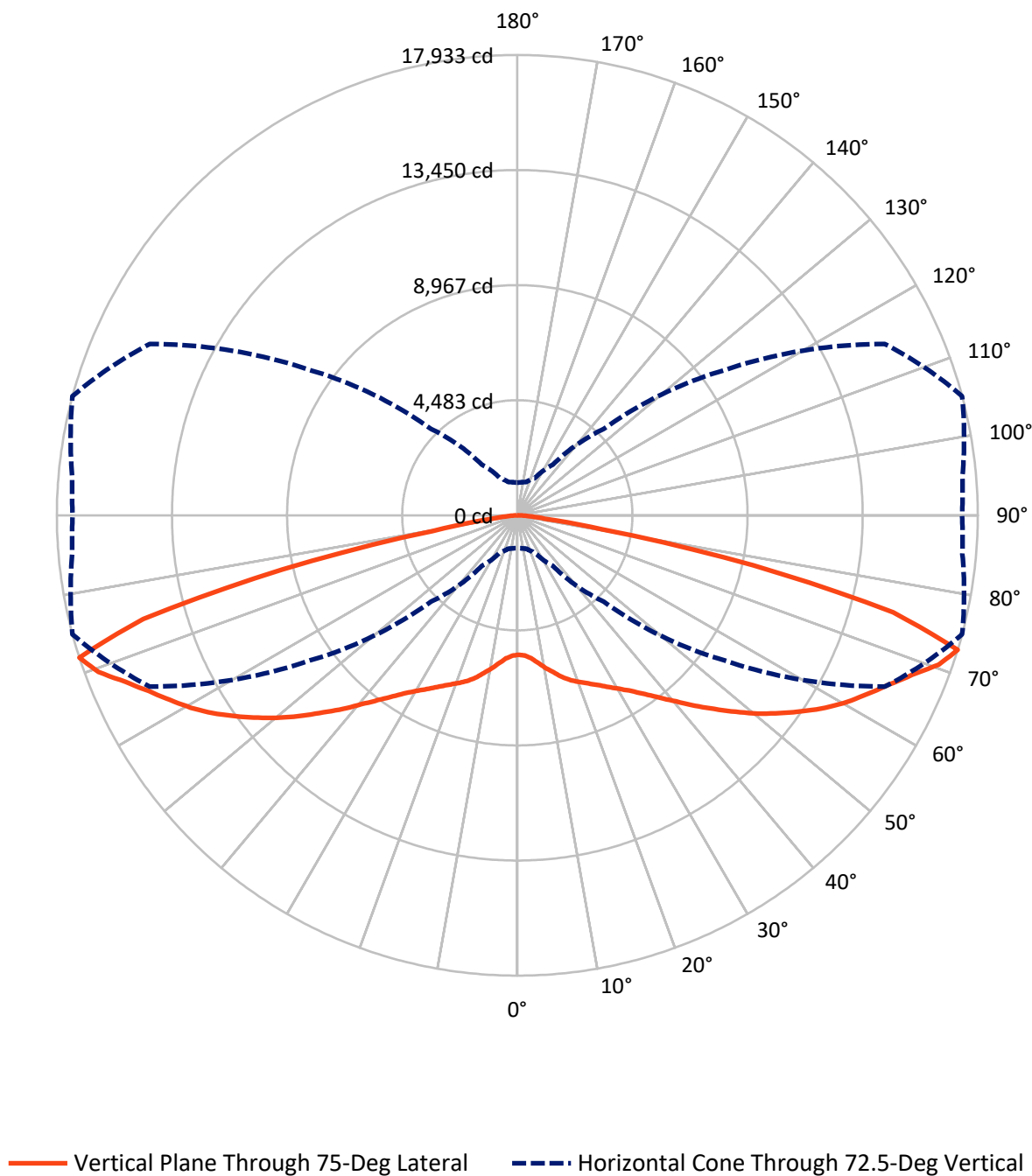
Based on 25 foot mounting height. Maximum calculated value = 9.5 fc

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    | 25356.5  | 0.0    | 25356.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 25356.5  | 0.0    | 25356.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 50712.9  | 0.0    | 50712.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 532.1   | 1.0       |
| 10°-20°   | 1755.1  | 3.5       |
| 20°-30°   | 3391.4  | 6.7       |
| 30°-40°   | 5726.5  | 11.3      |
| 40°-50°   | 9081.6  | 17.9      |
| 50°-60°   | 12159.2 | 24.0      |
| 60°-70°   | 11571.7 | 22.8      |
| 70°-80°   | 6038.3  | 11.9      |
| 80°-90°   | 457.1   | 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°    | 50712.9 | 100.0     |
| 0°-180°   | 50712.9 | 100.0     |

**Coefficient of Utilization**



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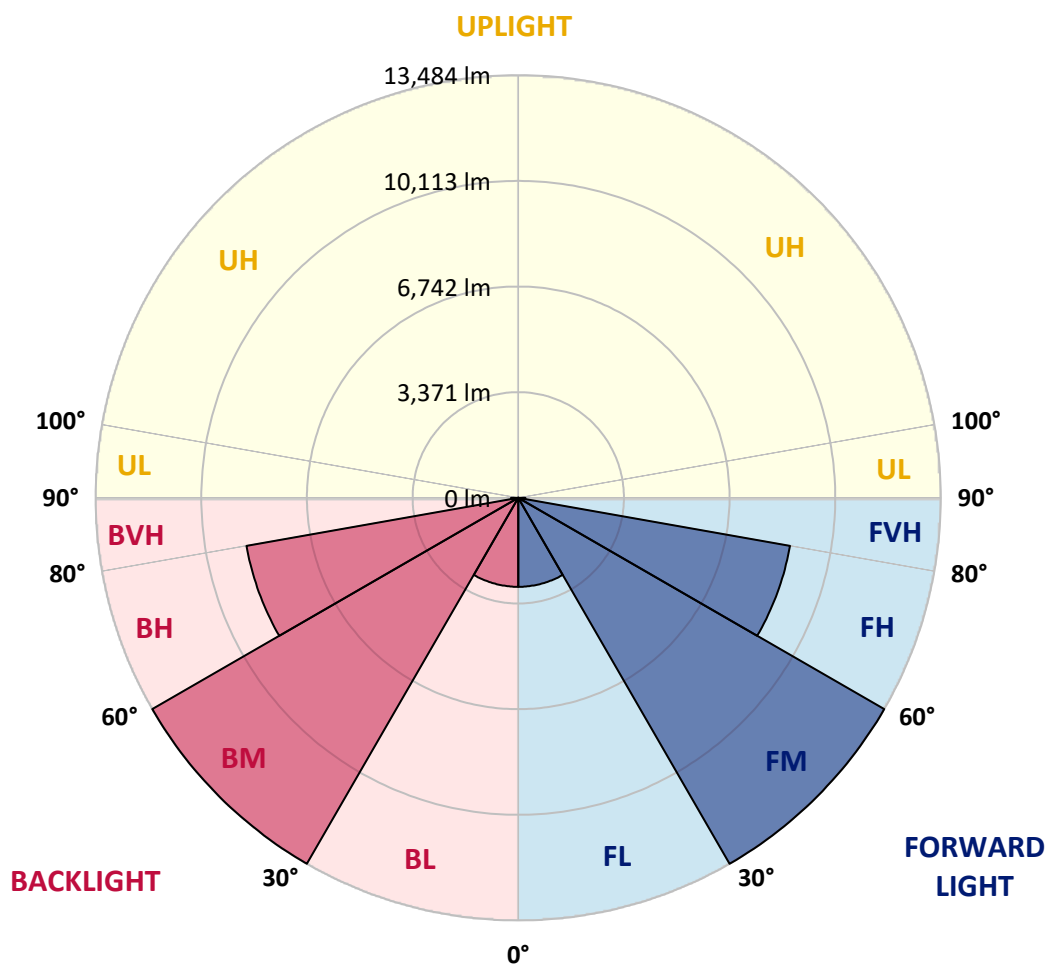
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2839.3  | 5.6       |                         |      |          |
| FM   | (30°-60°)   | 13483.6 | 26.6      |                         |      |          |
| FH   | (60°-80°)   | 8805.0  | 17.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 228.5   | 0.5       |                         |      | G3/500   |
| BL   | (0°-30°)    | 2839.3  | 5.6       | B4/5000                 |      |          |
| BM   | (30°-60°)   | 13483.6 | 26.6      | B5                      |      |          |
| BH   | (60°-80°)   | 8805.0  | 17.4      | B5                      |      | G5       |
| BVH  | (80°-90°)   | 228.5   | 0.5       |                         |      | G3/500   |
| 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°    | 5432.3  | 5432.3  | 5432.3  | 5432.3  | 5432.3  | 5432.3  | 5432.3  | 5432.3  | 5432.3  | 5432.3  | 5432.3  |
| 2.5°  | 5432.3  | 5427.1  | 5432.3  | 5437.4  | 5434.9  | 5434.9  | 5447.8  | 5455.6  | 5471.1  | 5468.5  | 5465.9  |
| 5°    | 5396.0  | 5393.4  | 5414.2  | 5437.4  | 5455.6  | 5486.6  | 5525.5  | 5554.0  | 5590.2  | 5597.9  | 5597.9  |
| 7.5°  | 5377.9  | 5370.1  | 5406.4  | 5447.8  | 5504.8  | 5582.5  | 5657.5  | 5735.2  | 5797.3  | 5818.1  | 5823.2  |
| 10°   | 5390.8  | 5393.4  | 5442.6  | 5520.3  | 5611.0  | 5719.7  | 5825.8  | 5957.9  | 6046.0  | 6066.7  | 6087.4  |
| 12.5° | 5450.3  | 5445.2  | 5528.0  | 5652.4  | 5776.6  | 5913.8  | 6038.2  | 6183.1  | 6278.9  | 6328.1  | 6348.8  |
| 15°   | 5559.1  | 5548.7  | 5665.3  | 5849.2  | 6030.4  | 6190.9  | 6291.9  | 6429.1  | 6540.4  | 6602.6  | 6625.9  |
| 17.5° | 5688.5  | 5693.8  | 5846.5  | 6084.7  | 6322.9  | 6504.2  | 6600.0  | 6669.9  | 6755.4  | 6809.8  | 6835.6  |
| 20°   | 5916.4  | 5926.9  | 6097.7  | 6379.9  | 6651.8  | 6858.9  | 6936.6  | 6910.8  | 6934.0  | 6975.4  | 7006.5  |
| 22.5° | 6222.0  | 6227.2  | 6418.8  | 6724.3  | 7009.2  | 7237.0  | 7288.8  | 7182.6  | 7117.9  | 7146.3  | 7167.1  |
| 25°   | 6576.7  | 6610.3  | 6802.0  | 7115.2  | 7407.9  | 7625.4  | 7648.7  | 7488.1  | 7327.6  | 7335.4  | 7348.3  |
| 27.5° | 7009.2  | 7040.2  | 7234.3  | 7545.1  | 7842.9  | 8031.9  | 8029.2  | 7814.4  | 7578.7  | 7519.2  | 7537.3  |
| 30°   | 7477.8  | 7511.4  | 7710.8  | 8031.9  | 8309.0  | 8474.6  | 8438.4  | 8182.1  | 7845.5  | 7734.1  | 7747.1  |
| 32.5° | 8034.5  | 8055.2  | 8257.1  | 8578.2  | 8834.6  | 8966.6  | 8891.5  | 8575.7  | 8156.1  | 8029.2  | 8060.4  |
| 35°   | 8707.7  | 8738.7  | 8888.9  | 9191.9  | 9417.1  | 9525.8  | 9399.0  | 9026.2  | 8554.9  | 8412.5  | 8433.2  |
| 37.5° | 9476.6  | 9455.9  | 9626.9  | 9896.2  | 10082.5 | 10149.9 | 9976.4  | 9533.6  | 9010.6  | 8842.3  | 8873.4  |
| 40°   | 10279.3 | 10269.0 | 10455.4 | 10714.3 | 10815.3 | 10856.8 | 10600.4 | 10116.2 | 9536.2  | 9355.0  | 9414.5  |
| 42.5° | 11007.0 | 10999.2 | 11250.3 | 11537.7 | 11659.4 | 11612.8 | 11289.1 | 10735.0 | 10144.7 | 9937.6  | 9989.3  |
| 45°   | 11589.5 | 11579.1 | 11887.2 | 12291.2 | 12529.4 | 12451.7 | 12016.7 | 11418.6 | 10761.0 | 10546.0 | 10595.2 |
| 47.5° | 12037.5 | 12042.6 | 12374.0 | 12873.8 | 13290.7 | 13319.2 | 12759.8 | 12115.1 | 11439.3 | 11196.0 | 11268.4 |
| 50°   | 12361.1 | 12376.7 | 12731.4 | 13285.4 | 13855.1 | 14106.3 | 13518.5 | 12829.7 | 12141.0 | 11866.5 | 11949.4 |
| 52.5° | 12441.3 | 12469.8 | 12897.1 | 13547.0 | 14217.6 | 14696.7 | 14290.1 | 13516.0 | 12806.5 | 12545.0 | 12612.3 |
| 55°   | 12014.1 | 12071.1 | 12612.3 | 13526.3 | 14440.3 | 15085.0 | 14968.5 | 14212.4 | 13477.1 | 13207.8 | 13282.9 |
| 57.5° | 11032.8 | 11113.0 | 11744.9 | 12938.5 | 14391.1 | 15351.7 | 15494.1 | 14880.4 | 14147.7 | 13888.7 | 13948.3 |
| 60°   | 9658.0  | 9753.7  | 10359.6 | 11662.0 | 13697.2 | 15450.1 | 15864.3 | 15530.4 | 14763.9 | 14512.8 | 14567.2 |
| 62.5° | 7584.0  | 7708.2  | 8433.2  | 9960.8  | 12231.6 | 14991.8 | 16180.2 | 16118.1 | 15318.0 | 15004.8 | 15041.0 |
| 65°   | 4865.2  | 4997.3  | 5761.1  | 7565.8  | 10276.8 | 13588.4 | 16278.6 | 16690.4 | 15903.2 | 15465.6 | 15520.0 |
| 67.5° | 2933.7  | 2993.2  | 3371.2  | 4585.5  | 7511.4  | 11473.0 | 15444.9 | 17324.8 | 16586.8 | 16043.0 | 16084.5 |
| 70°   | 1877.2  | 1910.9  | 2136.1  | 2692.8  | 4246.4  | 8371.1  | 13378.7 | 17443.9 | 17415.4 | 16636.0 | 16630.8 |
| 72.5° | 1273.9  | 1284.2  | 1343.8  | 1595.0  | 2402.8  | 4756.5  | 9867.7  | 15791.9 | 17933.2 | 17399.8 | 17317.0 |
| 75°   | 932.1   | 989.1   | 1084.9  | 1128.9  | 1364.6  | 2377.0  | 5654.9  | 11095.0 | 15113.5 | 15346.5 | 14782.0 |
| 77.5° | 693.9   | 696.5   | 828.6   | 880.4   | 973.5   | 1266.2  | 2392.5  | 6193.5  | 9383.5  | 9852.1  | 8787.9  |
| 80°   | 587.7   | 556.7   | 554.1   | 709.5   | 732.8   | 789.8   | 1069.4  | 2138.8  | 3360.9  | 2037.7  | 1540.6  |
| 82.5° | 489.3   | 455.7   | 411.7   | 554.1   | 499.7   | 484.2   | 463.5   | 870.0   | 1069.4  | 525.6   | 447.9   |
| 85°   | 341.7   | 326.3   | 310.7   | 362.5   | 284.8   | 243.4   | 222.6   | 406.5   | 450.5   | 222.6   | 196.8   |
| 87.5° | 147.6   | 152.7   | 155.4   | 160.5   | 119.1   | 85.5    | 85.5    | 113.9   | 113.9   | 88.0    | 64.8    |
| 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)