

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: STREETWORKS

Report Number: P969324

Luminaire Tested: **NVN-SB5D-740-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969324  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB5D-740-U-5MQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

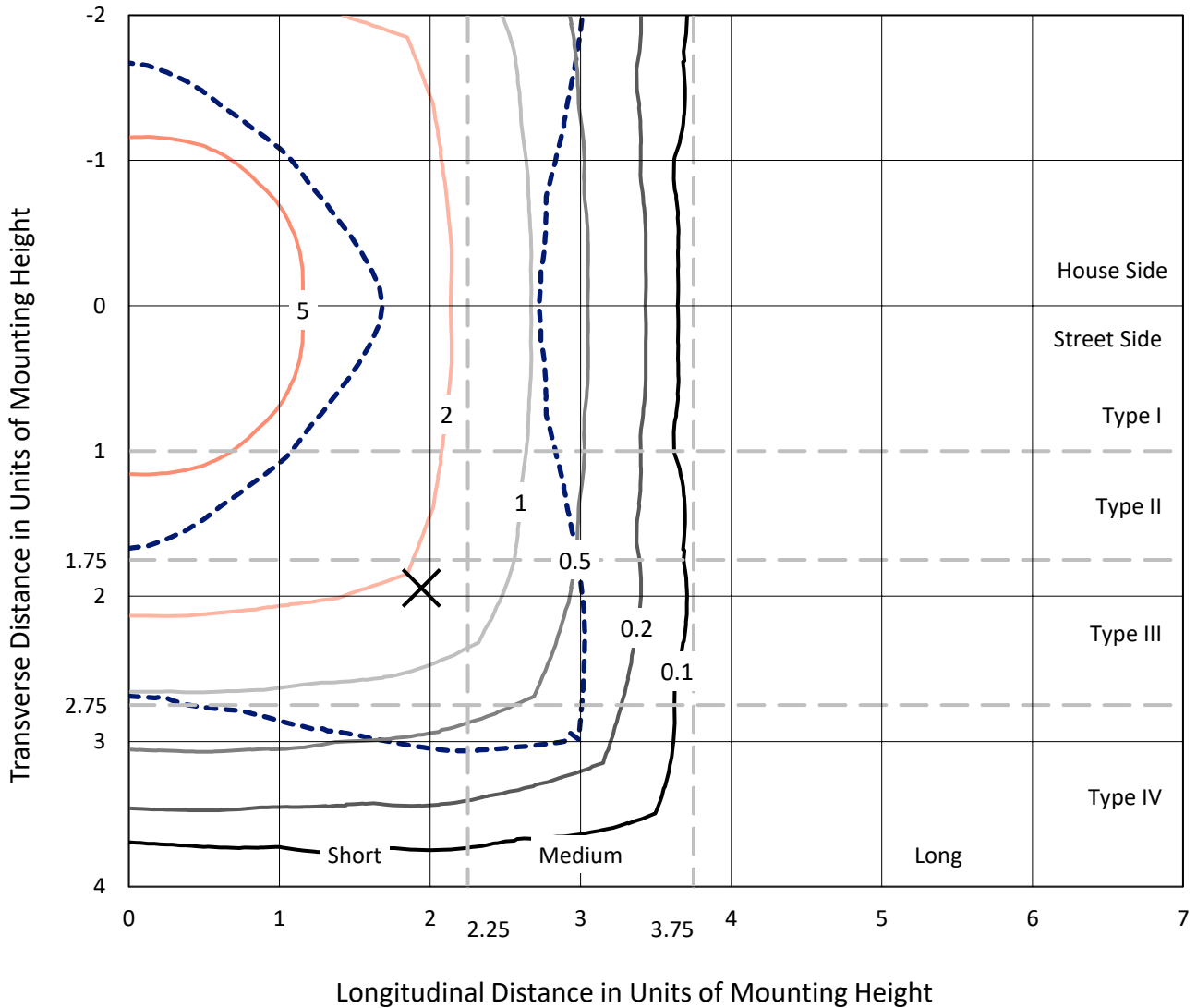
Lumens per Lamp: N/A  
Luminaire Lumens: 58377.8 lumens  
Efficiency: N/A  
Efficacy: 160.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

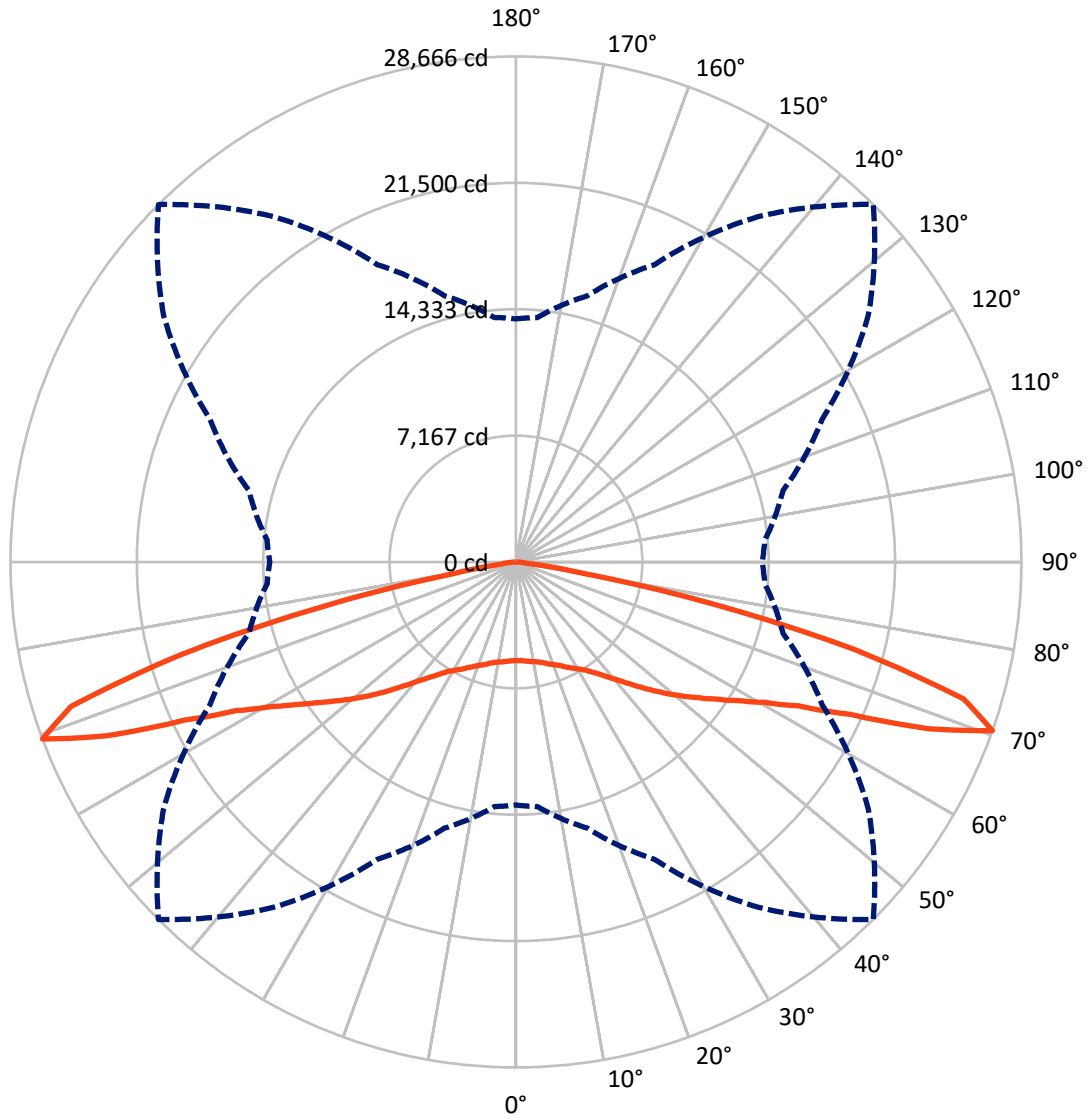
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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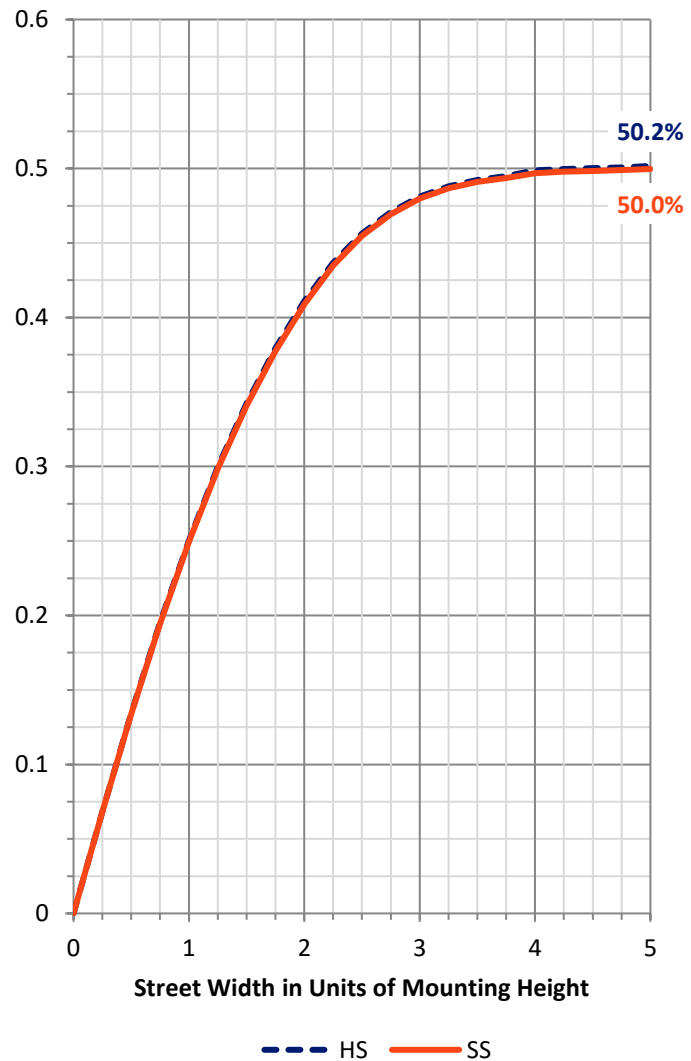
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 29188.9  | 0.0    | 29188.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 29188.9  | 0.0    | 29188.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 58377.8  | 0.0    | 58377.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 543.3   | 0.9       |
| 10°-20°   | 1684.6  | 2.9       |
| 20°-30°   | 3010.6  | 5.2       |
| 30°-40°   | 4880.1  | 8.4       |
| 40°-50°   | 7948.9  | 13.6      |
| 50°-60°   | 12119.3 | 20.8      |
| 60°-70°   | 18029.7 | 30.9      |
| 70°-80°   | 9826.8  | 16.8      |
| 80°-90°   | 334.6   | 0.6       |
| 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°    | 58377.8 | 100.0     |
| 0°-180°   | 58377.8 | 100.0     |

**Coefficient of Utilization**



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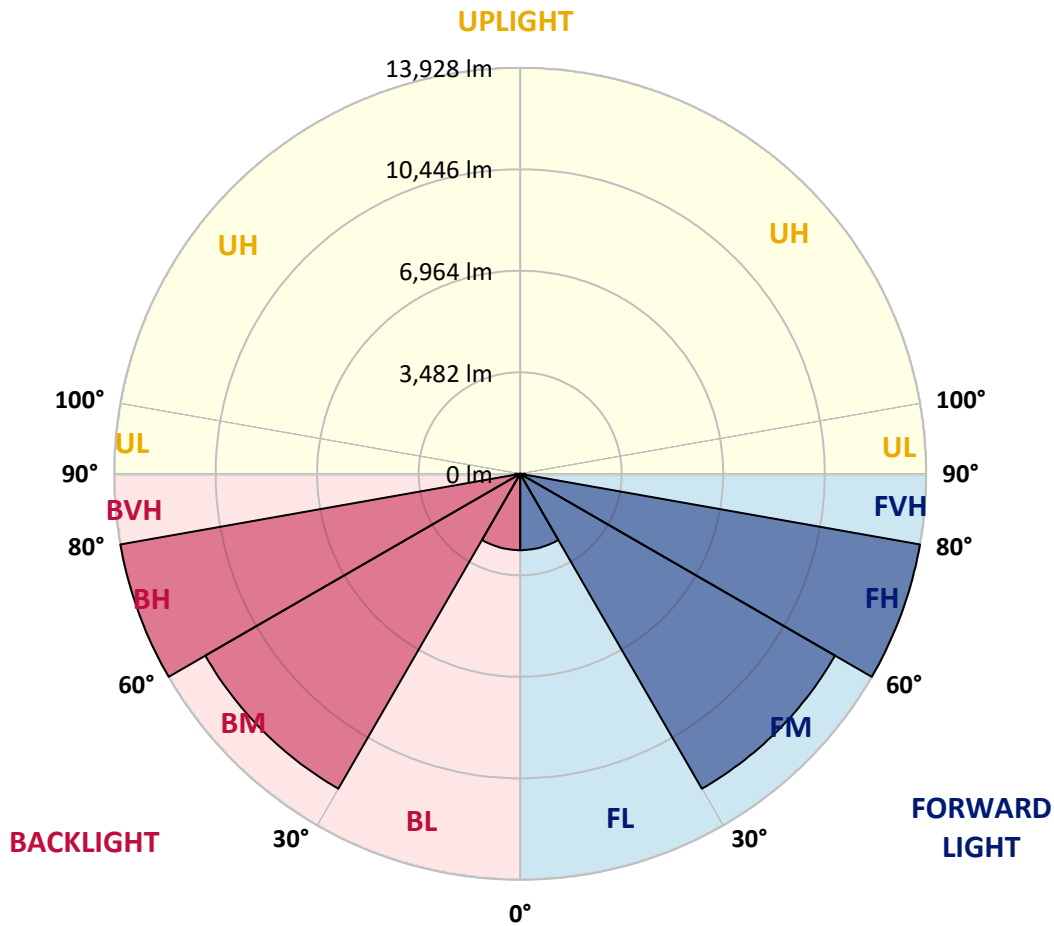
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 2619.2  | 4.5       |                         |      |        |
| FM (30°-60°)   | 12474.2 | 21.4      |                         |      |        |
| FH (60°-80°)   | 13928.2 | 23.9      |                         |      | G5     |
| FVH (80°-90°)  | 167.3   | 0.3       |                         |      | G2/225 |
| BL (0°-30°)    | 2619.2  | 4.5       | B4/5000                 |      |        |
| BM (30°-60°)   | 12474.2 | 21.4      | B5                      |      |        |
| BH (60°-80°)   | 13928.2 | 23.9      | B5                      |      | G5     |
| BVH (80°-90°)  | 167.3   | 0.3       |                         |      | 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 V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5592.0  | 5592.0  | 5592.0  | 5592.0  | 5592.0  | 5592.0  | 5592.0  | 5592.0  | 5592.0  | 5592.0  | 5592.0  |
| 2.5°  | 5618.3  | 5624.3  | 5612.5  | 5606.6  | 5600.8  | 5592.0  | 5595.0  | 5609.6  | 5621.3  | 5618.3  | 5621.3  |
| 5°    | 5665.3  | 5671.1  | 5662.3  | 5659.4  | 5647.6  | 5644.8  | 5644.8  | 5659.4  | 5668.1  | 5662.3  | 5665.3  |
| 7.5°  | 5718.1  | 5726.8  | 5712.1  | 5709.2  | 5703.4  | 5697.5  | 5694.6  | 5709.2  | 5718.1  | 5718.1  | 5718.1  |
| 10°   | 5767.9  | 5776.6  | 5764.9  | 5756.1  | 5750.2  | 5750.2  | 5744.4  | 5756.1  | 5770.7  | 5767.9  | 5767.9  |
| 12.5° | 5820.6  | 5826.5  | 5814.7  | 5808.9  | 5808.9  | 5817.7  | 5808.9  | 5814.7  | 5826.5  | 5820.6  | 5817.7  |
| 15°   | 5885.0  | 5888.0  | 5885.0  | 5893.9  | 5908.5  | 5937.8  | 5911.5  | 5905.6  | 5911.5  | 5896.8  | 5896.8  |
| 17.5° | 5973.0  | 5978.8  | 5990.6  | 6011.1  | 6031.6  | 6084.4  | 6037.5  | 6022.8  | 6022.8  | 5993.5  | 5993.5  |
| 20°   | 6081.4  | 6090.2  | 6107.8  | 6143.0  | 6169.4  | 6219.2  | 6172.3  | 6151.7  | 6143.0  | 6104.9  | 6104.9  |
| 22.5° | 6195.7  | 6210.4  | 6236.8  | 6283.7  | 6330.6  | 6377.4  | 6330.6  | 6295.3  | 6269.0  | 6219.2  | 6216.2  |
| 25°   | 6327.6  | 6345.3  | 6386.3  | 6462.4  | 6526.9  | 6594.3  | 6538.7  | 6468.3  | 6415.6  | 6345.3  | 6342.3  |
| 27.5° | 6515.2  | 6535.7  | 6585.5  | 6679.3  | 6761.4  | 6820.0  | 6767.3  | 6676.4  | 6603.2  | 6518.2  | 6515.2  |
| 30°   | 6778.9  | 6799.4  | 6858.1  | 6957.8  | 7013.5  | 7051.6  | 7016.3  | 6946.0  | 6858.1  | 6761.4  | 6761.4  |
| 32.5° | 7118.9  | 7145.3  | 7209.8  | 7303.6  | 7315.3  | 7321.2  | 7309.5  | 7274.3  | 7209.8  | 7092.6  | 7095.5  |
| 35°   | 7549.7  | 7579.1  | 7652.3  | 7728.6  | 7716.8  | 7728.6  | 7711.0  | 7699.3  | 7652.3  | 7517.6  | 7517.6  |
| 37.5° | 8077.3  | 8112.5  | 8188.7  | 8247.4  | 8218.0  | 8203.4  | 8206.3  | 8209.2  | 8182.9  | 8033.3  | 8033.3  |
| 40°   | 8689.8  | 8736.8  | 8792.4  | 8853.9  | 8804.1  | 8760.2  | 8789.5  | 8812.9  | 8789.5  | 8637.1  | 8637.1  |
| 42.5° | 9320.0  | 9387.4  | 9446.0  | 9533.9  | 9492.9  | 9437.2  | 9478.3  | 9504.6  | 9454.8  | 9290.7  | 9302.4  |
| 45°   | 10020.5 | 10085.0 | 10161.1 | 10293.0 | 10263.7 | 10205.1 | 10263.7 | 10269.6 | 10184.6 | 9991.2  | 10011.7 |
| 47.5° | 10744.4 | 10811.8 | 10926.1 | 11101.9 | 11090.2 | 11025.7 | 11101.9 | 11060.9 | 10952.4 | 10720.9 | 10706.2 |
| 50°   | 11430.2 | 11524.0 | 11699.8 | 11946.0 | 11969.4 | 11890.3 | 11992.9 | 11913.8 | 11732.0 | 11441.9 | 11436.0 |
| 52.5° | 12074.9 | 12174.6 | 12453.0 | 12787.2 | 12872.2 | 12769.6 | 12907.3 | 12769.6 | 12497.0 | 12124.8 | 12089.6 |
| 55°   | 12751.9 | 12863.3 | 13194.5 | 13631.2 | 13801.2 | 13725.0 | 13854.0 | 13645.8 | 13259.0 | 12807.7 | 12746.1 |
| 57.5° | 13549.2 | 13616.6 | 14012.3 | 14531.0 | 14818.2 | 14835.7 | 14894.4 | 14542.7 | 14073.8 | 13560.9 | 13490.5 |
| 60°   | 14413.8 | 14507.5 | 14938.4 | 15559.7 | 16014.0 | 16160.6 | 16099.0 | 15577.2 | 15032.1 | 14443.1 | 14349.3 |
| 62.5° | 15521.6 | 15624.2 | 16140.0 | 16884.4 | 17602.4 | 17965.9 | 17725.5 | 16969.4 | 16295.3 | 15589.0 | 15465.9 |
| 65°   | 16438.9 | 16553.2 | 17485.3 | 18812.8 | 20120.0 | 20849.8 | 20246.1 | 18854.0 | 17640.6 | 16644.1 | 16479.9 |
| 67.5° | 15773.6 | 15914.4 | 17376.8 | 19815.2 | 23065.5 | 25243.1 | 23176.9 | 20114.2 | 17737.3 | 16386.2 | 16183.9 |
| 70°   | 13786.6 | 13918.5 | 15624.2 | 18604.8 | 23894.9 | 28666.3 | 24393.2 | 19152.8 | 15679.8 | 14167.6 | 13965.3 |
| 72.5° | 9152.9  | 9577.9  | 11304.1 | 14879.7 | 21336.3 | 26526.8 | 21547.3 | 14577.9 | 10486.5 | 9132.4  | 8836.4  |
| 75°   | 3036.4  | 3376.2  | 4554.5  | 7713.9  | 14290.7 | 19838.7 | 13604.8 | 6825.9  | 3607.8  | 2596.7  | 2456.0  |
| 77.5° | 765.0   | 882.2   | 1216.3  | 2206.9  | 5700.4  | 11295.4 | 5131.9  | 1802.5  | 981.8   | 685.8   | 612.5   |
| 80°   | 372.2   | 410.3   | 586.2   | 735.6   | 1427.3  | 3590.3  | 1339.4  | 691.7   | 463.1   | 357.5   | 328.2   |
| 82.5° | 205.2   | 208.1   | 331.2   | 416.2   | 530.4   | 929.1   | 551.0   | 404.5   | 266.7   | 216.9   | 216.9   |
| 85°   | 126.1   | 123.1   | 175.9   | 222.7   | 222.7   | 331.2   | 263.7   | 222.7   | 152.4   | 134.8   | 140.6   |
| 87.5° | 49.8    | 49.8    | 64.5    | 70.3    | 61.5    | 85.0    | 67.4    | 73.3    | 58.6    | 55.7    | 58.6    |
| 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)