

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: P455803

Luminaire Tested: **GLAN-SA7A-730-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455803  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7A-730-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28957 lumens  
Efficiency: N/A  
Efficacy: 134.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 215  
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



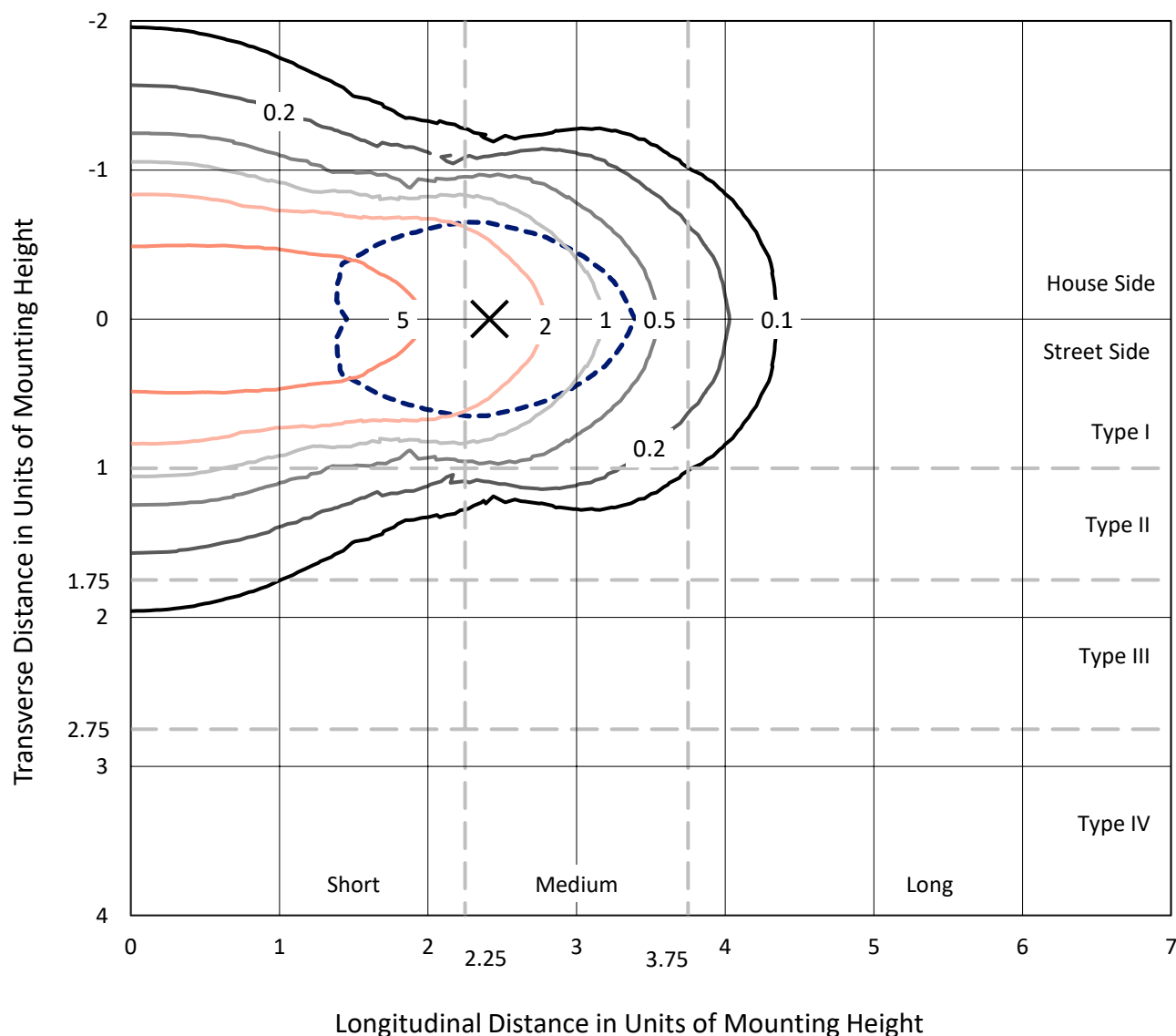
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

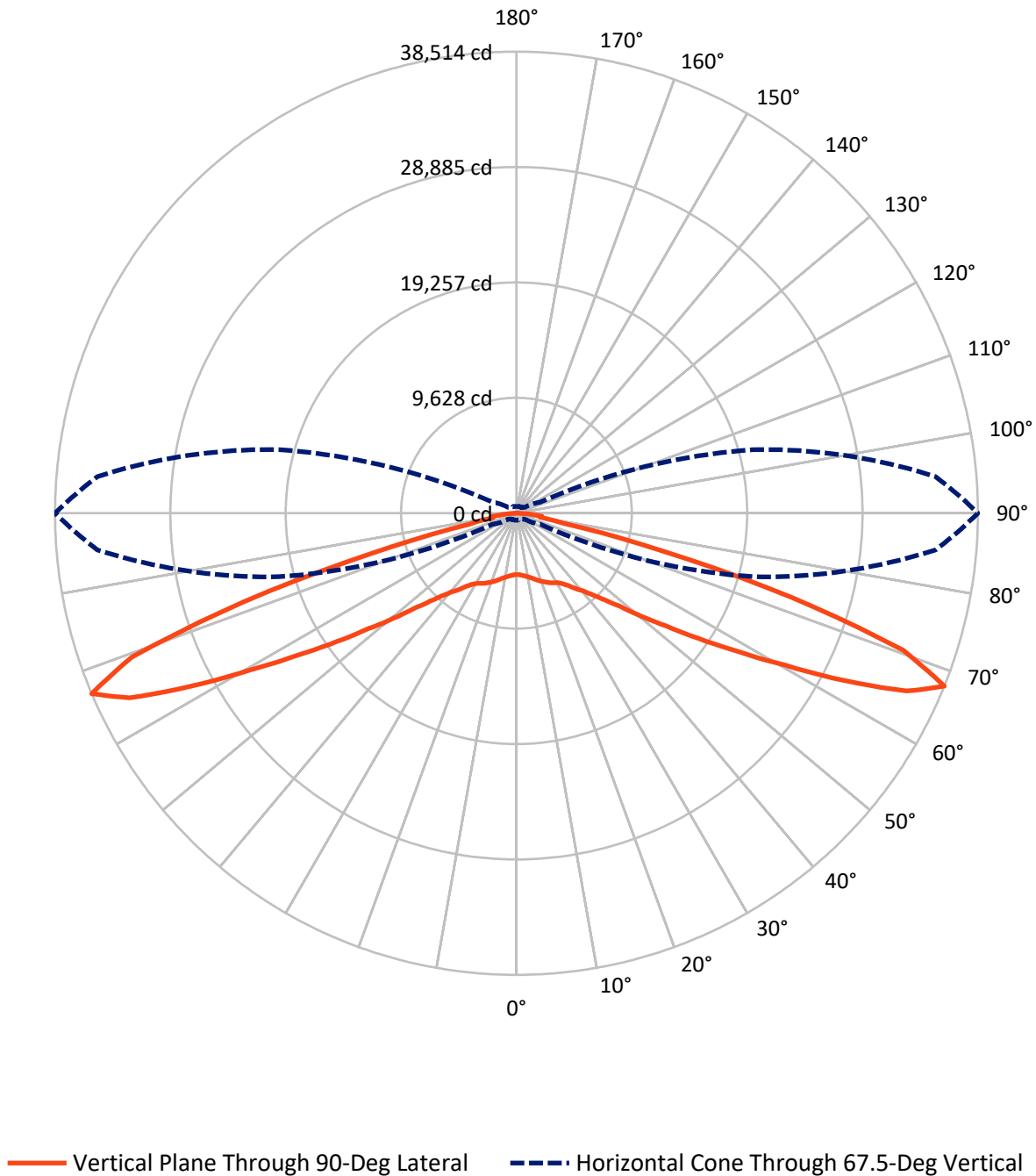


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type I - Short - N/A

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## Luminous Intensity Polar Plot



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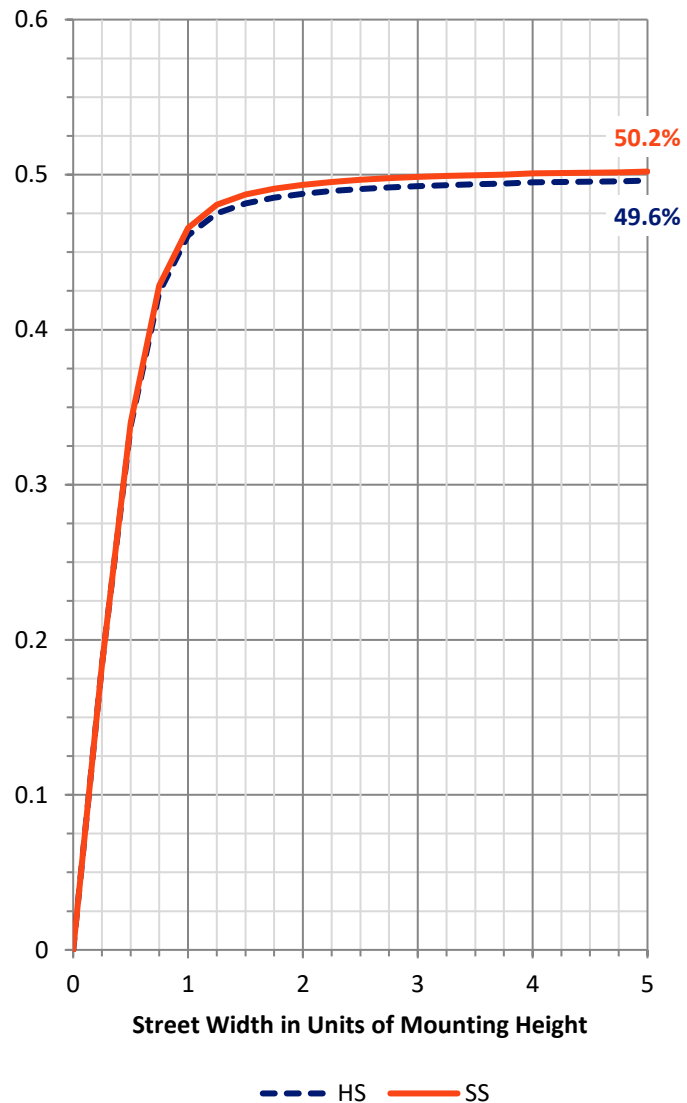
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 14478.5  | 0.0    | 14478.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 14478.5  | 0.0    | 14478.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 28957.0  | 0.0    | 28957.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 511.1   | 1.8       |
| 10°-20°   | 1635.2  | 5.6       |
| 20°-30°   | 2736.9  | 9.5       |
| 30°-40°   | 3707.8  | 12.8      |
| 40°-50°   | 4696.6  | 16.2      |
| 50°-60°   | 5867.2  | 20.3      |
| 60°-70°   | 6896.6  | 23.8      |
| 70°-80°   | 2638.3  | 9.1       |
| 80°-90°   | 267.3   | 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°    | 28957.0 | 100.0     |
| 0°-180°   | 28957.0 | 100.0     |

**Coefficient of Utilization**



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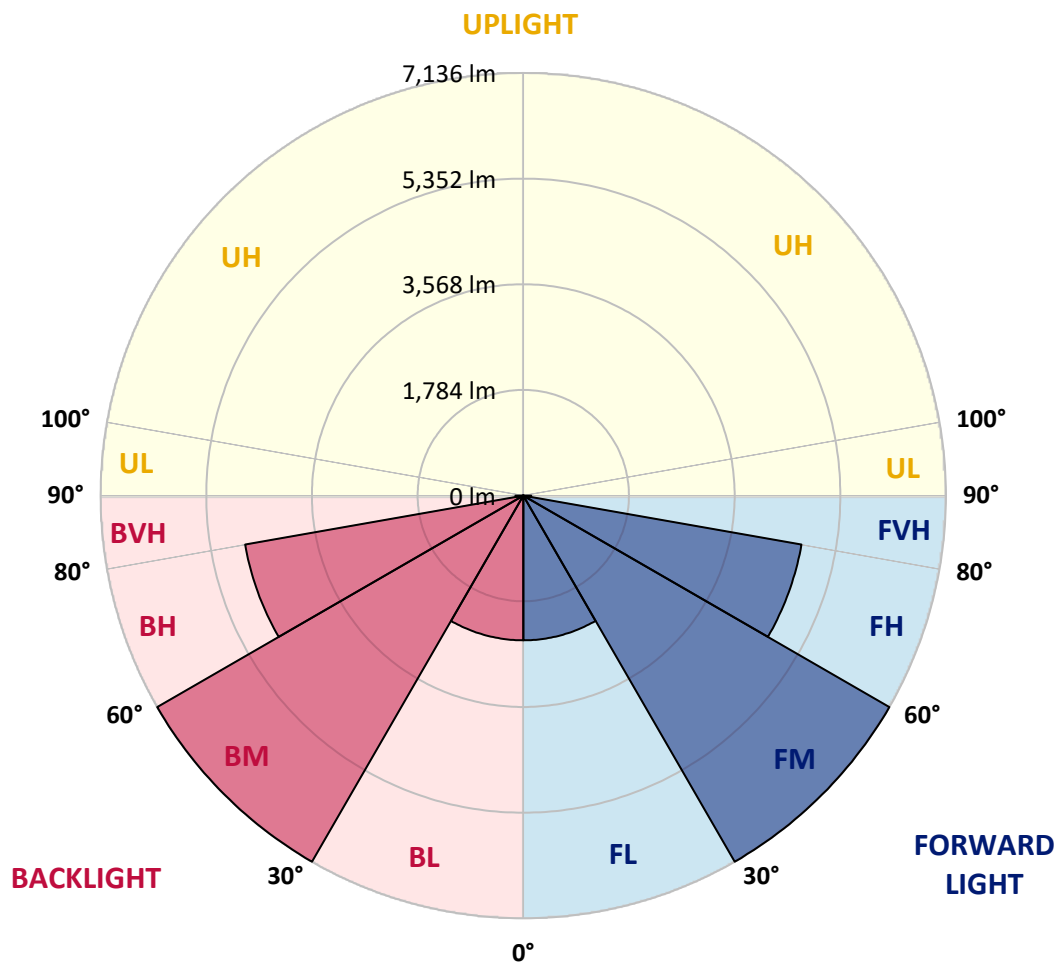
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2441.6 | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 7135.8 | 24.6      |                         |      |         |
| FH   | (60°-80°)   | 4767.5 | 16.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 133.6  | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 2441.6 | 8.4       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 7135.8 | 24.6      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 4767.5 | 16.5      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 133.6  | 0.5       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 85°     | 90°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 5126.3 | 5126.3 | 5126.3 | 5126.3 | 5126.3 | 5126.3 | 5126.3 | 5126.3  | 5126.3  | 5126.3  | 5126.3  |
| 2.5°  | 5192.0 | 5188.8 | 5190.4 | 5188.8 | 5193.6 | 5190.4 | 5171.2 | 5155.2  | 5142.3  | 5143.9  | 5139.1  |
| 5°    | 5302.7 | 5304.3 | 5305.9 | 5297.9 | 5309.1 | 5302.7 | 5272.2 | 5246.6  | 5220.9  | 5211.3  | 5208.1  |
| 7.5°  | 5394.1 | 5402.1 | 5406.9 | 5414.9 | 5434.2 | 5434.2 | 5418.1 | 5381.2  | 5325.1  | 5293.1  | 5291.4  |
| 10°   | 5485.5 | 5491.9 | 5506.3 | 5532.0 | 5564.0 | 5594.5 | 5588.1 | 5538.4  | 5466.2  | 5411.7  | 5398.9  |
| 12.5° | 5517.5 | 5525.6 | 5573.7 | 5647.4 | 5719.6 | 5778.9 | 5778.9 | 5738.8  | 5645.8  | 5562.4  | 5538.4  |
| 15°   | 5405.3 | 5419.7 | 5506.3 | 5663.5 | 5852.7 | 5982.5 | 6011.4 | 5955.3  | 5855.9  | 5727.6  | 5698.7  |
| 17.5° | 5182.4 | 5217.7 | 5344.4 | 5576.9 | 5891.1 | 6160.5 | 6243.9 | 6216.6  | 6088.4  | 5924.8  | 5891.1  |
| 20°   | 4943.5 | 4982.0 | 5116.7 | 5424.5 | 5859.1 | 6264.8 | 6506.9 | 6513.3  | 6354.5  | 6117.2  | 6067.5  |
| 22.5° | 4680.5 | 4709.4 | 4882.6 | 5243.3 | 5762.9 | 6288.8 | 6733.0 | 6843.6  | 6628.7  | 6309.7  | 6239.1  |
| 25°   | 4385.5 | 4417.6 | 4598.7 | 4988.4 | 5581.7 | 6261.5 | 6939.8 | 7183.5  | 6915.8  | 6514.9  | 6425.1  |
| 27.5° | 4103.3 | 4116.1 | 4310.1 | 4706.2 | 5342.8 | 6191.0 | 7092.1 | 7496.2  | 7233.2  | 6684.9  | 6571.0  |
| 30°   | 3832.3 | 3862.8 | 4034.3 | 4425.6 | 5068.6 | 6053.1 | 7223.6 | 7852.2  | 7574.8  | 6862.8  | 6716.9  |
| 32.5° | 3545.3 | 3582.1 | 3768.2 | 4164.2 | 4794.4 | 5846.2 | 7303.8 | 8241.8  | 8051.0  | 7151.5  | 6995.9  |
| 35°   | 3269.5 | 3293.5 | 3481.1 | 3866.0 | 4526.6 | 5605.7 | 7318.2 | 8681.2  | 8665.1  | 7589.2  | 7382.4  |
| 37.5° | 2987.3 | 3022.5 | 3211.7 | 3580.5 | 4242.8 | 5350.8 | 7246.1 | 9147.8  | 9405.9  | 8196.9  | 7974.1  |
| 40°   | 2716.3 | 2746.7 | 2932.7 | 3304.7 | 3920.5 | 5039.7 | 7074.5 | 9574.3  | 10270.2 | 8822.3  | 8506.4  |
| 42.5° | 2421.2 | 2429.3 | 2632.9 | 3011.3 | 3604.6 | 4678.9 | 6827.6 | 9954.3  | 11233.9 | 9660.9  | 9268.1  |
| 45°   | 2086.1 | 2107.0 | 2296.2 | 2668.2 | 3242.2 | 4274.8 | 6492.4 | 10268.6 | 12455.7 | 10823.4 | 10287.9 |
| 47.5° | 1751.0 | 1768.6 | 1941.8 | 2309.0 | 2846.2 | 3811.4 | 5976.1 | 10544.4 | 13709.7 | 12300.2 | 11597.9 |
| 50°   | 1423.9 | 1433.5 | 1574.6 | 1900.1 | 2400.4 | 3324.0 | 5336.3 | 10632.6 | 15127.1 | 14391.1 | 13494.8 |
| 52.5° | 1125.6 | 1140.1 | 1247.5 | 1502.5 | 1924.2 | 2748.3 | 4645.2 | 10414.5 | 16781.9 | 16870.1 | 15606.6 |
| 55°   | 912.4  | 917.2  | 997.4  | 1185.0 | 1504.1 | 2145.4 | 3811.4 | 9806.8  | 18561.8 | 20046.6 | 18435.1 |
| 57.5° | 785.7  | 788.9  | 833.8  | 938.0  | 1157.7 | 1617.9 | 2956.8 | 8657.1  | 20160.4 | 23768.2 | 21696.5 |
| 60°   | 713.5  | 715.1  | 740.8  | 801.7  | 917.2  | 1241.1 | 2118.2 | 7034.4  | 21738.2 | 27910.0 | 25750.1 |
| 62.5° | 668.6  | 668.6  | 686.3  | 720.0  | 776.1  | 952.5  | 1534.5 | 5075.0  | 22819.0 | 32112.7 | 30746.5 |
| 65°   | 625.4  | 625.4  | 638.2  | 662.2  | 692.7  | 779.3  | 1133.7 | 3309.6  | 22791.7 | 35173.7 | 35771.8 |
| 67.5° | 575.6  | 575.6  | 585.3  | 609.3  | 627.0  | 670.3  | 875.5  | 2167.9  | 20473.1 | 35106.4 | 38513.7 |
| 70°   | 516.3  | 516.3  | 529.1  | 550.0  | 564.4  | 591.7  | 691.1  | 1483.2  | 15040.5 | 29975.3 | 34251.7 |
| 72.5° | 457.0  | 458.6  | 466.6  | 487.5  | 498.7  | 514.7  | 574.0  | 1039.0  | 9226.4  | 20410.6 | 23949.4 |
| 75°   | 391.2  | 394.5  | 402.5  | 423.3  | 432.9  | 439.4  | 484.2  | 740.8   | 4667.7  | 11004.6 | 12529.5 |
| 77.5° | 315.9  | 322.3  | 327.1  | 349.6  | 356.0  | 365.6  | 399.3  | 535.6   | 2049.2  | 3954.2  | 3989.4  |
| 80°   | 230.9  | 238.9  | 253.3  | 274.2  | 279.0  | 285.4  | 304.7  | 380.0   | 928.4   | 1805.5  | 1961.0  |
| 82.5° | 170.0  | 181.2  | 163.6  | 190.8  | 190.8  | 182.8  | 214.9  | 255.0   | 426.5   | 1787.9  | 2139.0  |
| 85°   | 93.0   | 94.6   | 85.0   | 97.8   | 104.2  | 102.6  | 113.8  | 125.1   | 206.8   | 1193.0  | 1229.9  |
| 87.5° | 22.4   | 24.1   | 25.7   | 30.5   | 36.9   | 36.9   | 40.1   | 35.3    | 67.3    | 386.4   | 221.3   |
| 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)