

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: P453468

Luminaire Tested: **GLAN-SA4C-730-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453468  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4C-730-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26433 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 213  
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

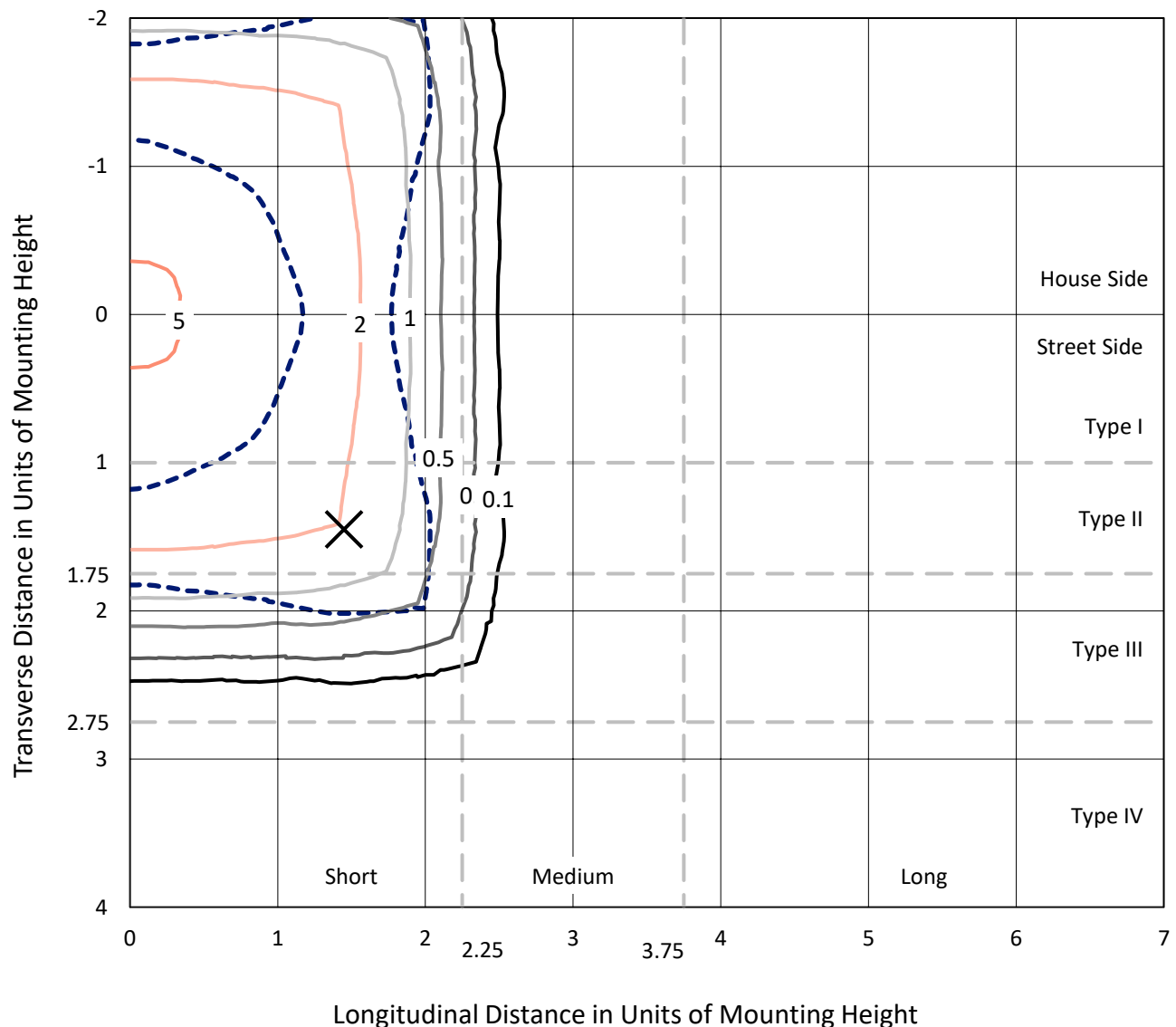


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

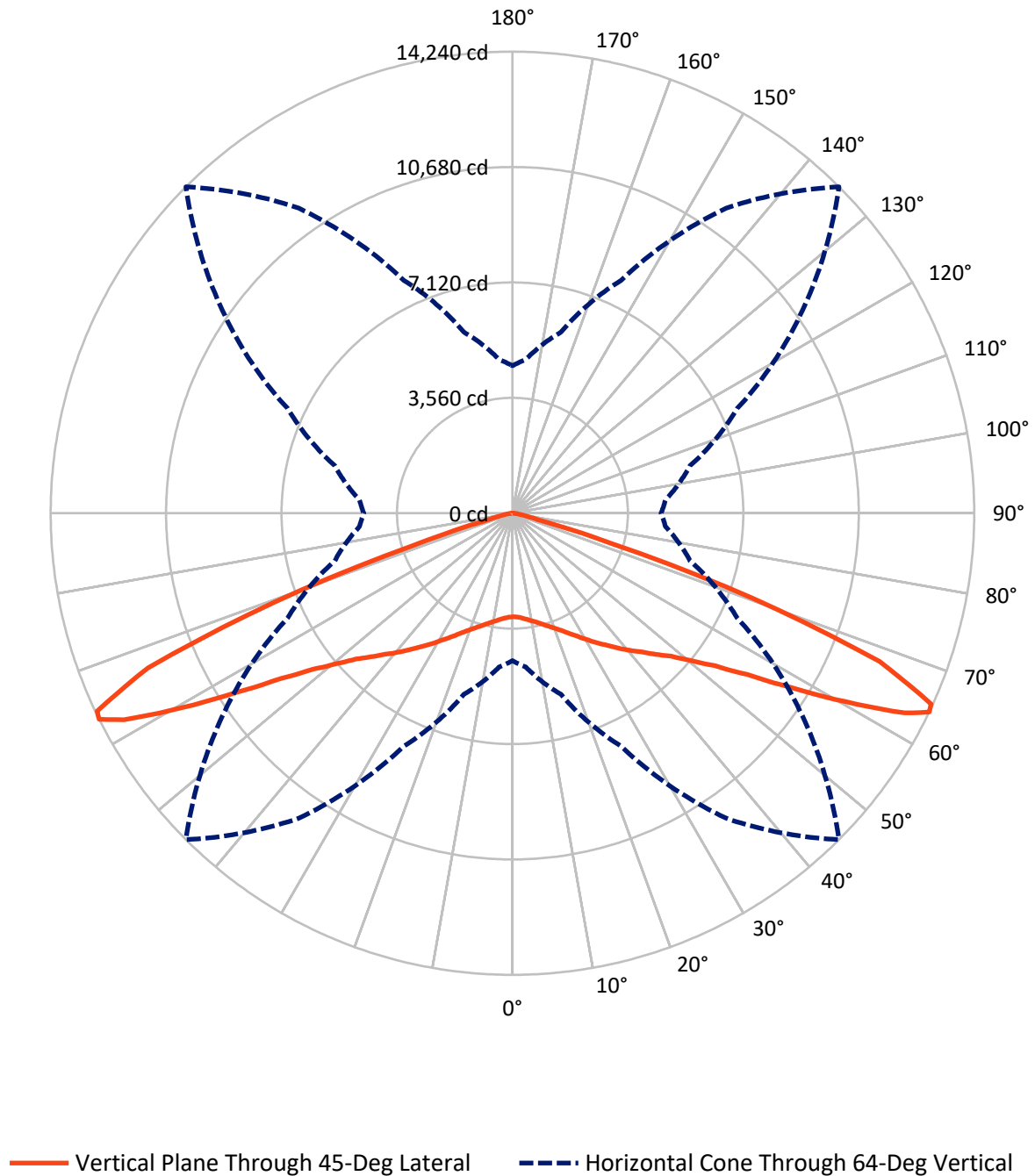


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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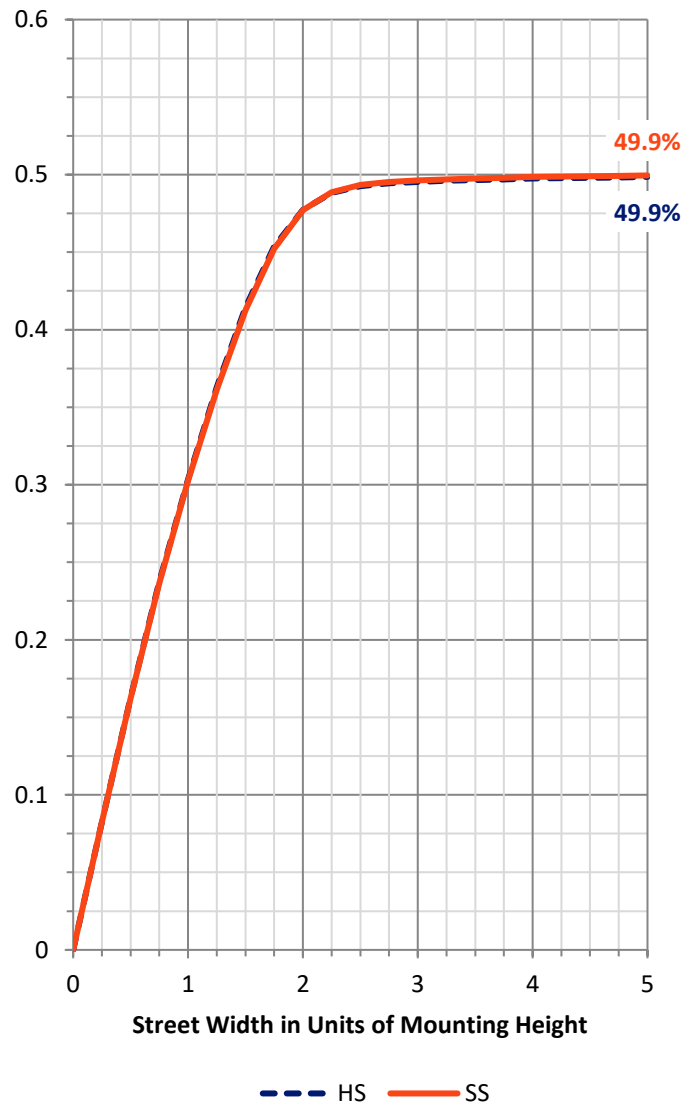
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13216.5  | 0.0    | 13216.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 13216.5  | 0.0    | 13216.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 26433.0  | 0.0    | 26433.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 313.9   | 1.2       |
| 10°-20°   | 1012.4  | 3.8       |
| 20°-30°   | 1913.2  | 7.2       |
| 30°-40°   | 3168.5  | 12.0      |
| 40°-50°   | 4946.6  | 18.7      |
| 50°-60°   | 7647.3  | 28.9      |
| 60°-70°   | 6594.2  | 24.9      |
| 70°-80°   | 747.3   | 2.8       |
| 80°-90°   | 89.5    | 0.3       |
| 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°    | 26433.0 | 100.0     |
| 0°-180°   | 26433.0 | 100.0     |

**Coefficient of Utilization**



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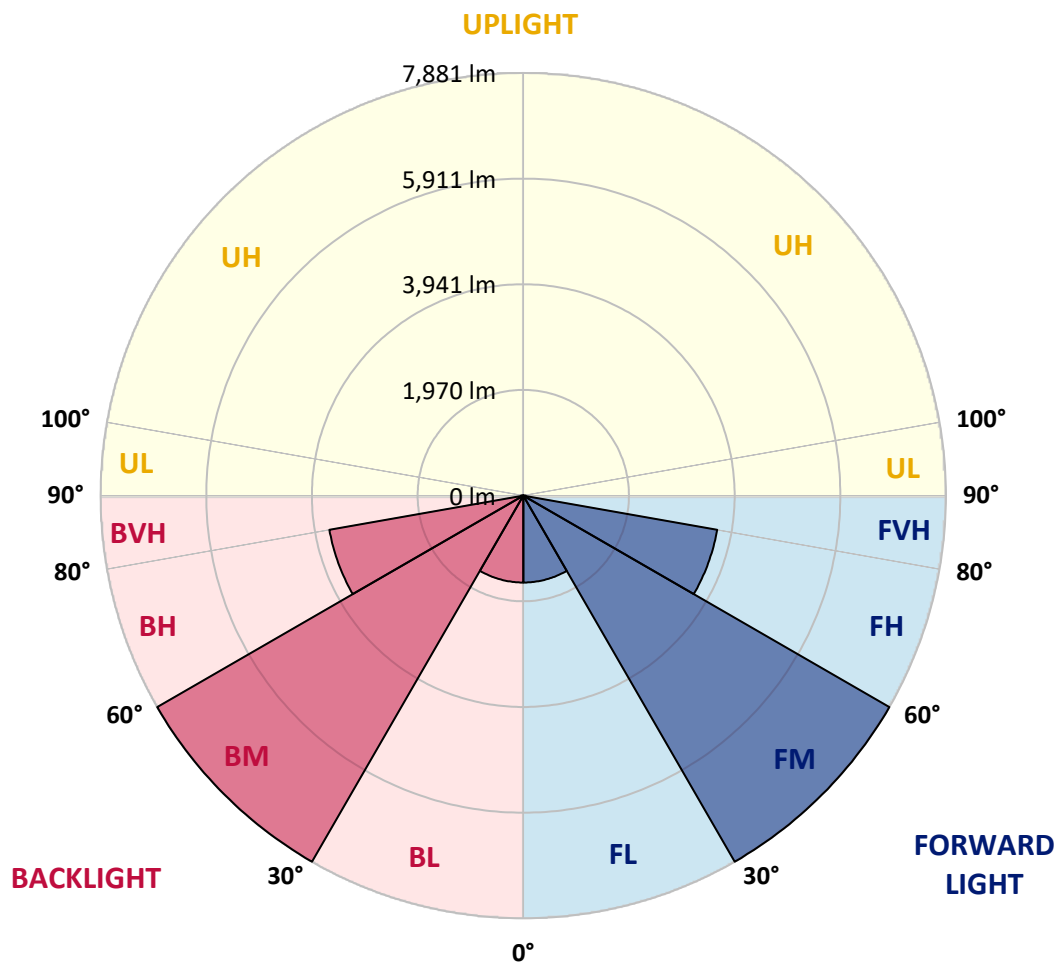
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1619.8 | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 7881.2 | 29.8      |                         |      |         |
| FH   | (60°-80°)   | 3670.7 | 13.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 44.8   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1619.8 | 6.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 7881.2 | 29.8      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3670.7 | 13.9      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 44.8   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 3194.9 | 3194.9 | 3194.9 | 3194.9 | 3194.9  | 3194.9  | 3194.9  | 3194.9 | 3194.9 | 3194.9 | 3194.9 |
| 2.5°  | 3207.5 | 3214.5 | 3208.9 | 3207.5 | 3206.1  | 3206.1  | 3206.1  | 3207.5 | 3213.1 | 3217.3 | 3214.5 |
| 5°    | 3248.1 | 3253.7 | 3250.9 | 3249.5 | 3248.1  | 3249.5  | 3246.7  | 3245.3 | 3249.5 | 3249.5 | 3248.1 |
| 7.5°  | 3298.5 | 3305.5 | 3302.7 | 3305.5 | 3306.9  | 3308.3  | 3301.3  | 3295.7 | 3294.3 | 3298.5 | 3295.7 |
| 10°   | 3367.1 | 3372.7 | 3374.1 | 3375.5 | 3378.3  | 3376.9  | 3368.5  | 3358.7 | 3357.3 | 3355.9 | 3354.5 |
| 12.5° | 3444.1 | 3448.3 | 3449.7 | 3455.3 | 3459.5  | 3460.9  | 3451.1  | 3442.7 | 3428.7 | 3431.5 | 3425.9 |
| 15°   | 3530.9 | 3539.3 | 3537.9 | 3546.3 | 3557.5  | 3560.3  | 3550.5  | 3536.5 | 3523.9 | 3516.9 | 3512.7 |
| 17.5° | 3637.3 | 3642.9 | 3640.1 | 3648.5 | 3662.5  | 3669.5  | 3661.1  | 3642.9 | 3630.3 | 3614.9 | 3606.5 |
| 20°   | 3763.3 | 3773.1 | 3775.9 | 3775.9 | 3788.5  | 3795.5  | 3782.9  | 3777.3 | 3757.7 | 3746.5 | 3739.5 |
| 22.5° | 3906.1 | 3910.3 | 3918.7 | 3927.1 | 3939.7  | 3936.9  | 3932.7  | 3924.3 | 3906.1 | 3896.3 | 3885.1 |
| 25°   | 4067.1 | 4071.3 | 4092.3 | 4110.5 | 4114.7  | 4111.9  | 4106.3  | 4102.1 | 4085.3 | 4062.9 | 4054.5 |
| 27.5° | 4254.7 | 4263.1 | 4291.1 | 4307.9 | 4307.9  | 4309.3  | 4298.1  | 4312.1 | 4275.7 | 4249.1 | 4246.3 |
| 30°   | 4489.9 | 4495.5 | 4519.3 | 4536.1 | 4527.7  | 4520.7  | 4517.9  | 4531.9 | 4492.7 | 4445.1 | 4433.9 |
| 32.5° | 4722.3 | 4741.9 | 4762.9 | 4799.3 | 4769.9  | 4757.3  | 4754.5  | 4764.3 | 4719.5 | 4666.3 | 4650.9 |
| 35°   | 4971.5 | 4985.5 | 5024.7 | 5055.5 | 5028.9  | 4999.5  | 5012.1  | 5042.9 | 4989.7 | 4918.3 | 4915.5 |
| 37.5° | 5247.3 | 5259.9 | 5310.3 | 5342.5 | 5322.9  | 5272.5  | 5293.5  | 5329.9 | 5276.7 | 5188.5 | 5170.3 |
| 40°   | 5534.3 | 5560.9 | 5623.9 | 5657.5 | 5625.3  | 5558.1  | 5597.3  | 5636.5 | 5588.9 | 5486.7 | 5446.1 |
| 42.5° | 5856.3 | 5898.3 | 5989.3 | 6006.1 | 5944.5  | 5853.5  | 5922.1  | 5985.1 | 5951.5 | 5833.9 | 5818.5 |
| 45°   | 6232.9 | 6258.1 | 6370.1 | 6406.5 | 6321.1  | 6207.7  | 6293.1  | 6407.9 | 6382.7 | 6246.9 | 6217.5 |
| 47.5° | 6654.4 | 6678.2 | 6794.4 | 6849.0 | 6741.2  | 6588.5  | 6742.6  | 6892.4 | 6877.0 | 6731.4 | 6717.4 |
| 50°   | 7152.8 | 7158.4 | 7319.4 | 7381.0 | 7273.2  | 7141.6  | 7278.8  | 7465.0 | 7403.4 | 7217.2 | 7214.4 |
| 52.5° | 7698.8 | 7705.8 | 7908.8 | 8027.8 | 7967.6  | 7819.2  | 7981.6  | 8095.0 | 7938.2 | 7694.6 | 7676.4 |
| 55°   | 8172.0 | 8207.0 | 8484.2 | 8800.6 | 8883.2  | 8775.4  | 8824.4  | 8771.2 | 8384.8 | 8043.2 | 7990.0 |
| 57.5° | 8365.2 | 8433.8 | 8855.2 | 9446.0 | 9983.6  | 10143.2 | 9765.2  | 9258.4 | 8562.6 | 8079.6 | 8027.8 |
| 60°   | 7893.4 | 7967.6 | 8621.4 | 9742.8 | 11114.9 | 11807.9 | 10745.2 | 9341.0 | 8158.0 | 7479.0 | 7397.8 |
| 62.5° | 6321.1 | 6342.1 | 7304.0 | 9044.2 | 11774.3 | 13569.1 | 11158.3 | 8636.8 | 6980.6 | 6057.9 | 6025.7 |
| 64°   | 4548.7 | 4764.3 | 5783.5 | 7929.8 | 11485.9 | 14239.7 | 10920.2 | 7649.8 | 5670.1 | 4736.3 | 4585.1 |
| 65°   | 3402.1 | 3460.9 | 4662.1 | 6772.0 | 10977.6 | 14189.3 | 10458.2 | 6706.2 | 4695.7 | 3624.7 | 3456.7 |
| 67.5° | 1285.2 | 1292.2 | 1720.6 | 3375.5 | 7815.0  | 12208.3 | 7981.6  | 3648.5 | 1978.2 | 1430.8 | 1379.0 |
| 70°   | 533.4  | 543.2  | 631.4  | 1135.4 | 3358.7  | 7838.8  | 3848.7  | 1316.0 | 723.8  | 586.6  | 578.2  |
| 72.5° | 390.6  | 396.2  | 422.8  | 504.0  | 1033.2  | 3218.7  | 1265.6  | 558.6  | 424.2  | 379.4  | 375.2  |
| 75°   | 306.6  | 309.4  | 329.0  | 371.0  | 481.6   | 891.8   | 526.4   | 383.6  | 323.4  | 291.2  | 288.4  |
| 77.5° | 233.8  | 240.8  | 254.8  | 282.8  | 323.4   | 422.8   | 348.6   | 287.0  | 249.2  | 222.6  | 218.4  |
| 80°   | 161.0  | 169.4  | 196.0  | 207.2  | 217.0   | 274.4   | 238.0   | 217.0  | 194.6  | 162.4  | 152.6  |
| 82.5° | 99.4   | 105.0  | 131.6  | 141.4  | 137.2   | 154.0   | 152.6   | 155.4  | 138.6  | 100.8  | 93.8   |
| 85°   | 51.8   | 54.6   | 71.4   | 74.2   | 68.6    | 63.0    | 78.4    | 91.0   | 85.4   | 57.4   | 56.0   |
| 87.5° | 11.2   | 12.6   | 15.4   | 14.0   | 15.4    | 15.4    | 19.6    | 29.4   | 30.8   | 19.6   | 18.2   |
| 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)