

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: P532149

Luminaire Tested: **GLAN-SA7C-730-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532149  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7C-730-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30636 lumens  
Efficiency: N/A  
Efficacy: 81.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

Input Watts (W): 377  
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



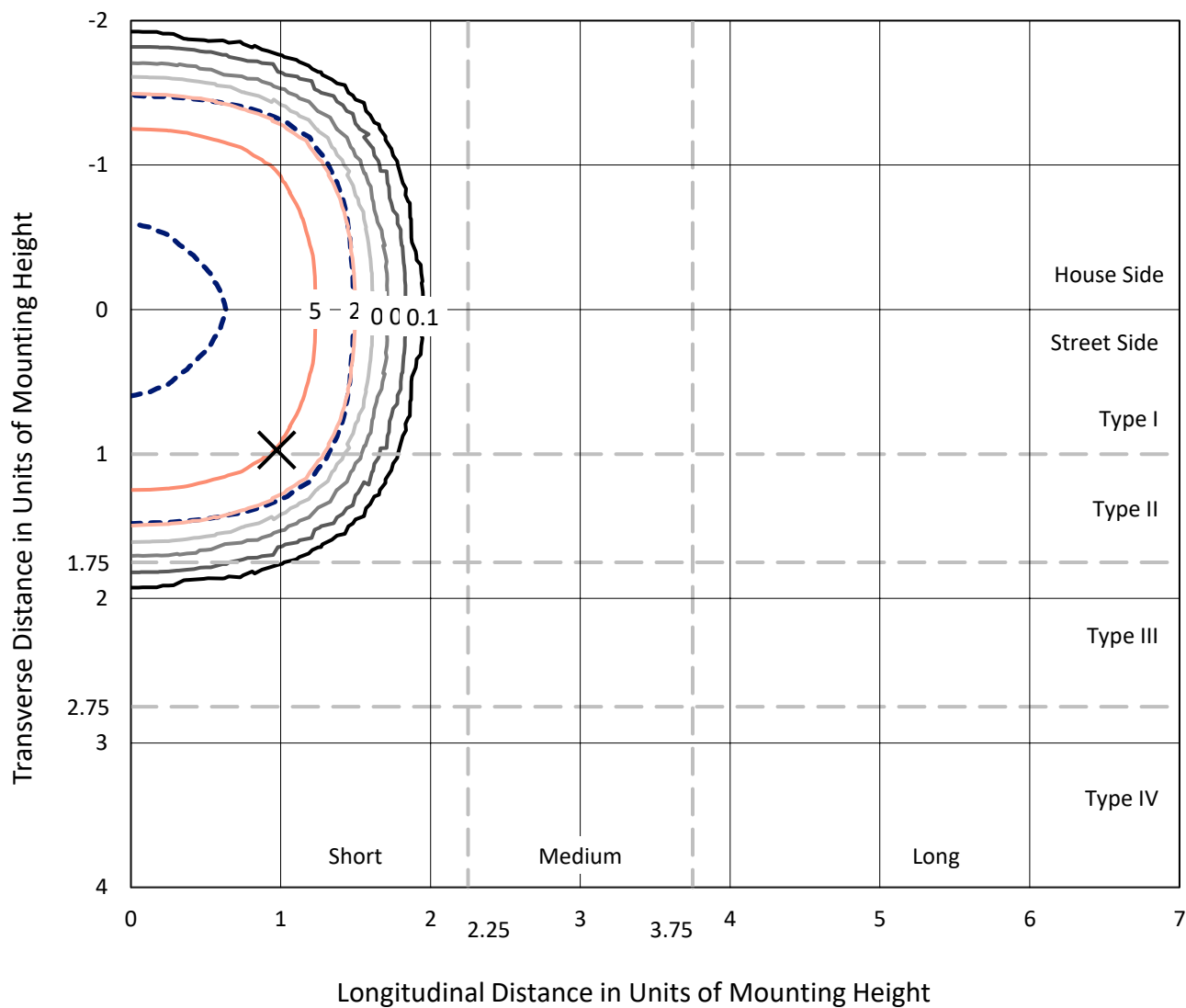
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

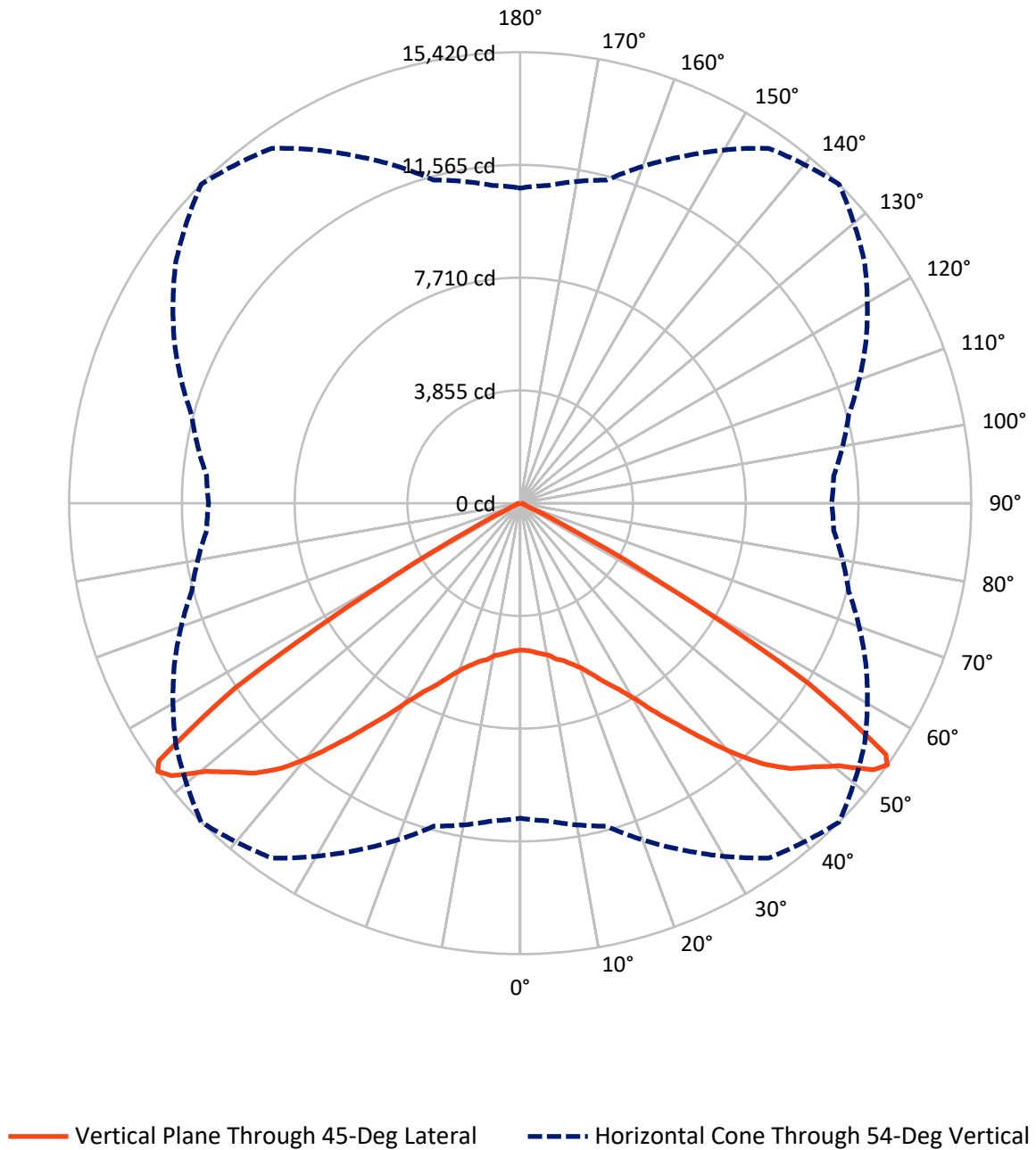


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc

Type V - Short - N/A

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## Luminous Intensity Polar Plot



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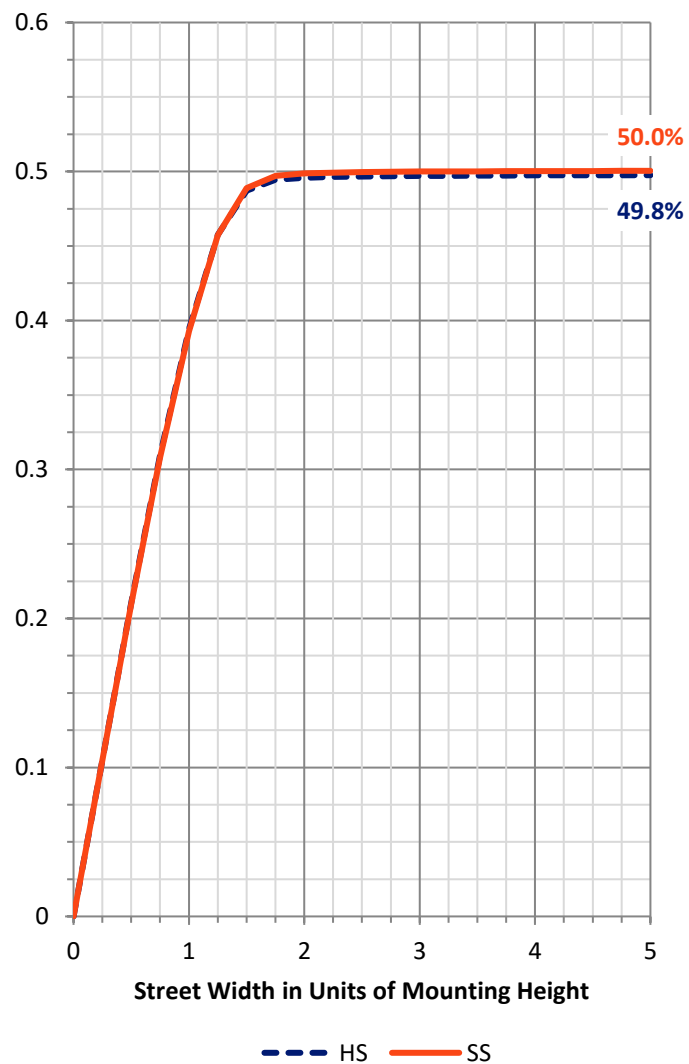
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15318.0  | 0.0    | 15318.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 15318.0  | 0.0    | 15318.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 30636.0  | 0.0    | 30636.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 491.7   | 1.6       |
| 10°-20°   | 1592.2  | 5.2       |
| 20°-30°   | 3120.6  | 10.2      |
| 30°-40°   | 5611.5  | 18.3      |
| 40°-50°   | 9605.9  | 31.4      |
| 50°-60°   | 9294.6  | 30.3      |
| 60°-70°   | 795.7   | 2.6       |
| 70°-80°   | 94.3    | 0.3       |
| 80°-90°   | 29.6    | 0.1       |
| 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°    | 30636.0 | 100.0     |
| 0°-180°   | 30636.0 | 100.0     |

**Coefficient of Utilization**



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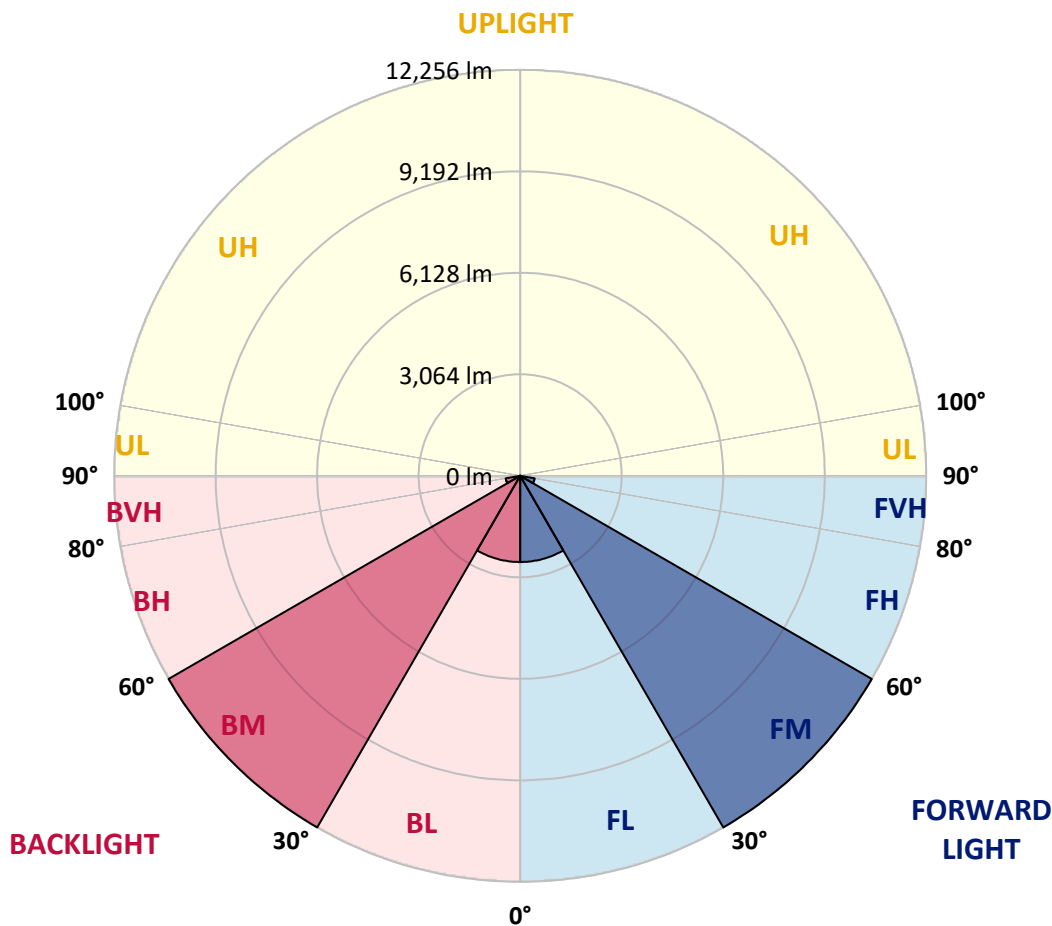
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 2602.2  | 8.5       |                         |      |        |
| FM   | (30°-60°)   | 12256.0 | 40.0      |                         |      |        |
| FH   | (60°-80°)   | 445.0   | 1.5       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 14.8    | 0.0       |                         |      | G1/100 |
| BL   | (0°-30°)    | 2602.2  | 8.5       | B4/5000                 |      |        |
| BM   | (30°-60°)   | 12256.0 | 40.0      | B5                      |      |        |
| BH   | (60°-80°)   | 445.0   | 1.5       | B1/500                  |      | G0/660 |
| BVH  | (80°-90°)   | 14.8    | 0.0       |                         |      | G1/100 |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B5-U0-G1**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5023.3  | 5023.3  | 5023.3  | 5023.3  | 5023.3  | 5023.3  | 5023.3  | 5023.3  | 5023.3  | 5023.3  | 5023.3  |
| 2.5°  | 5047.6  | 5076.7  | 5057.3  | 5071.9  | 5071.9  | 5047.6  | 5062.2  | 5003.9  | 5042.8  | 5013.6  | 5018.5  |
| 5°    | 5125.3  | 5120.4  | 5120.4  | 5125.3  | 5105.9  | 5115.6  | 5096.2  | 5076.7  | 5062.2  | 5042.8  | 5101.0  |
| 7.5°  | 5222.3  | 5222.3  | 5188.4  | 5198.1  | 5188.4  | 5202.9  | 5164.1  | 5125.3  | 5110.7  | 5096.2  | 5086.4  |
| 10°   | 5314.6  | 5304.9  | 5290.3  | 5334.0  | 5300.0  | 5280.6  | 5261.2  | 5236.9  | 5183.5  | 5164.1  | 5144.7  |
| 12.5° | 5450.5  | 5445.6  | 5426.2  | 5469.9  | 5450.5  | 5469.9  | 5397.1  | 5334.0  | 5324.3  | 5261.2  | 5295.1  |
| 15°   | 5610.6  | 5654.3  | 5620.3  | 5620.3  | 5610.6  | 5586.4  | 5557.2  | 5528.1  | 5440.7  | 5416.5  | 5421.3  |
| 17.5° | 5819.3  | 5804.8  | 5809.6  | 5809.6  | 5858.1  | 5795.1  | 5736.8  | 5664.0  | 5620.3  | 5605.8  | 5557.2  |
| 20°   | 6018.3  | 6037.7  | 6032.9  | 6066.8  | 6096.0  | 6028.0  | 5964.9  | 5955.2  | 5833.9  | 5853.3  | 5785.3  |
| 22.5° | 6367.8  | 6353.2  | 6377.5  | 6401.7  | 6382.3  | 6372.6  | 6314.4  | 6241.6  | 6134.8  | 6086.3  | 6076.6  |
| 25°   | 6736.6  | 6712.4  | 6668.7  | 6726.9  | 6756.0  | 6799.7  | 6688.1  | 6649.3  | 6484.2  | 6411.4  | 6416.3  |
| 27.5° | 7052.1  | 7086.1  | 7134.6  | 7158.9  | 7231.7  | 7217.1  | 7139.5  | 7013.3  | 6887.1  | 6804.6  | 6751.2  |
| 30°   | 7484.1  | 7503.5  | 7586.0  | 7620.0  | 7746.2  | 7780.1  | 7658.8  | 7513.2  | 7289.9  | 7183.1  | 7120.1  |
| 32.5° | 7882.0  | 8017.9  | 8013.1  | 8183.0  | 8386.8  | 8527.6  | 8309.2  | 8085.9  | 7862.6  | 7736.4  | 7624.8  |
| 35°   | 8527.6  | 8503.3  | 8644.0  | 8823.6  | 9153.7  | 9313.8  | 9076.0  | 8818.8  | 8479.0  | 8275.2  | 8187.8  |
| 37.5° | 9129.4  | 9139.1  | 9328.4  | 9614.7  | 9993.3  | 10240.8 | 10032.1 | 9609.9  | 9260.4  | 8998.3  | 8877.0  |
| 40°   | 10003.0 | 10022.4 | 10216.6 | 10541.8 | 10968.9 | 11235.8 | 10993.1 | 10566.0 | 10100.1 | 9896.2  | 9896.2  |
| 42.5° | 11027.1 | 11109.6 | 11235.8 | 11517.3 | 11900.7 | 12196.8 | 11978.4 | 11643.5 | 11172.7 | 10910.6 | 10949.4 |
| 45°   | 12080.3 | 12119.1 | 12201.6 | 12619.0 | 12798.6 | 12944.2 | 12740.4 | 12585.1 | 12269.6 | 11949.3 | 11895.9 |
| 47.5° | 13065.6 | 13080.1 | 13322.8 | 13453.8 | 13594.6 | 13473.3 | 13604.3 | 13400.5 | 13046.1 | 12735.5 | 12672.4 |
| 50°   | 13502.4 | 13478.1 | 13822.7 | 14220.7 | 14327.5 | 14113.9 | 14002.3 | 13866.4 | 13327.7 | 12953.9 | 12788.9 |
| 52.5° | 12230.8 | 12371.5 | 13012.2 | 14118.8 | 14953.6 | 15133.1 | 14482.8 | 13856.7 | 12852.0 | 12124.0 | 12012.4 |
| 54°   | 10774.7 | 10905.8 | 11434.8 | 13075.3 | 14812.8 | 15419.5 | 14371.1 | 13041.3 | 11624.1 | 10760.2 | 10648.5 |
| 55°   | 9333.2  | 9187.6  | 10148.6 | 11823.1 | 14152.7 | 15167.1 | 13929.5 | 11988.1 | 10367.0 | 9575.9  | 9420.6  |
| 57.5° | 5052.5  | 5076.7  | 5887.3  | 7469.5  | 9944.8  | 11628.9 | 10270.0 | 8110.2  | 6125.1  | 5236.9  | 5159.2  |
| 60°   | 1601.6  | 1640.5  | 1994.8  | 3018.9  | 4751.6  | 5673.7  | 4863.2  | 3256.7  | 2252.0  | 1805.5  | 1732.7  |
| 62.5° | 499.9   | 519.3   | 567.9   | 844.5   | 1300.7  | 1858.9  | 1456.0  | 873.6   | 650.4   | 597.0   | 606.7   |
| 65°   | 305.8   | 305.8   | 310.6   | 330.0   | 388.3   | 451.4   | 436.8   | 383.4   | 368.9   | 359.2   | 354.3   |
| 67.5° | 199.0   | 194.1   | 203.8   | 218.4   | 228.1   | 233.0   | 247.5   | 262.1   | 257.2   | 247.5   | 247.5   |
| 70°   | 121.3   | 116.5   | 126.2   | 145.6   | 150.5   | 160.2   | 174.7   | 194.1   | 189.3   | 179.6   | 184.4   |
| 72.5° | 67.9    | 67.9    | 72.8    | 87.4    | 101.9   | 111.6   | 126.2   | 140.8   | 145.6   | 140.8   | 140.8   |
| 75°   | 24.3    | 29.1    | 38.8    | 53.4    | 63.1    | 77.7    | 92.2    | 106.8   | 121.3   | 111.6   | 106.8   |
| 77.5° | 9.7     | 9.7     | 19.4    | 34.0    | 48.5    | 63.1    | 87.4    | 101.9   | 111.6   | 101.9   | 92.2    |
| 80°   | 4.9     | 4.9     | 14.6    | 29.1    | 43.7    | 58.2    | 72.8    | 87.4    | 92.2    | 82.5    | 72.8    |
| 82.5° | 4.9     | 4.9     | 14.6    | 29.1    | 43.7    | 53.4    | 77.7    | 87.4    | 97.1    | 87.4    | 72.8    |
| 85°   | 0.0     | 4.9     | 14.6    | 29.1    | 38.8    | 43.7    | 43.7    | 29.1    | 24.3    | 14.6    | 14.6    |
| 87.5° | 0.0     | 0.0     | 4.9     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 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)