

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: McGRAW-EDISON

Report Number: P532539

Luminaire Tested: **GALN-SA7D-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532539  
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: MCGRAW-EDISON  
Catalog Number: GALN-SA7D-830-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 1200mA 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: 29414 lumens  
Efficiency: N/A  
Efficacy: 67.9 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): 433  
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



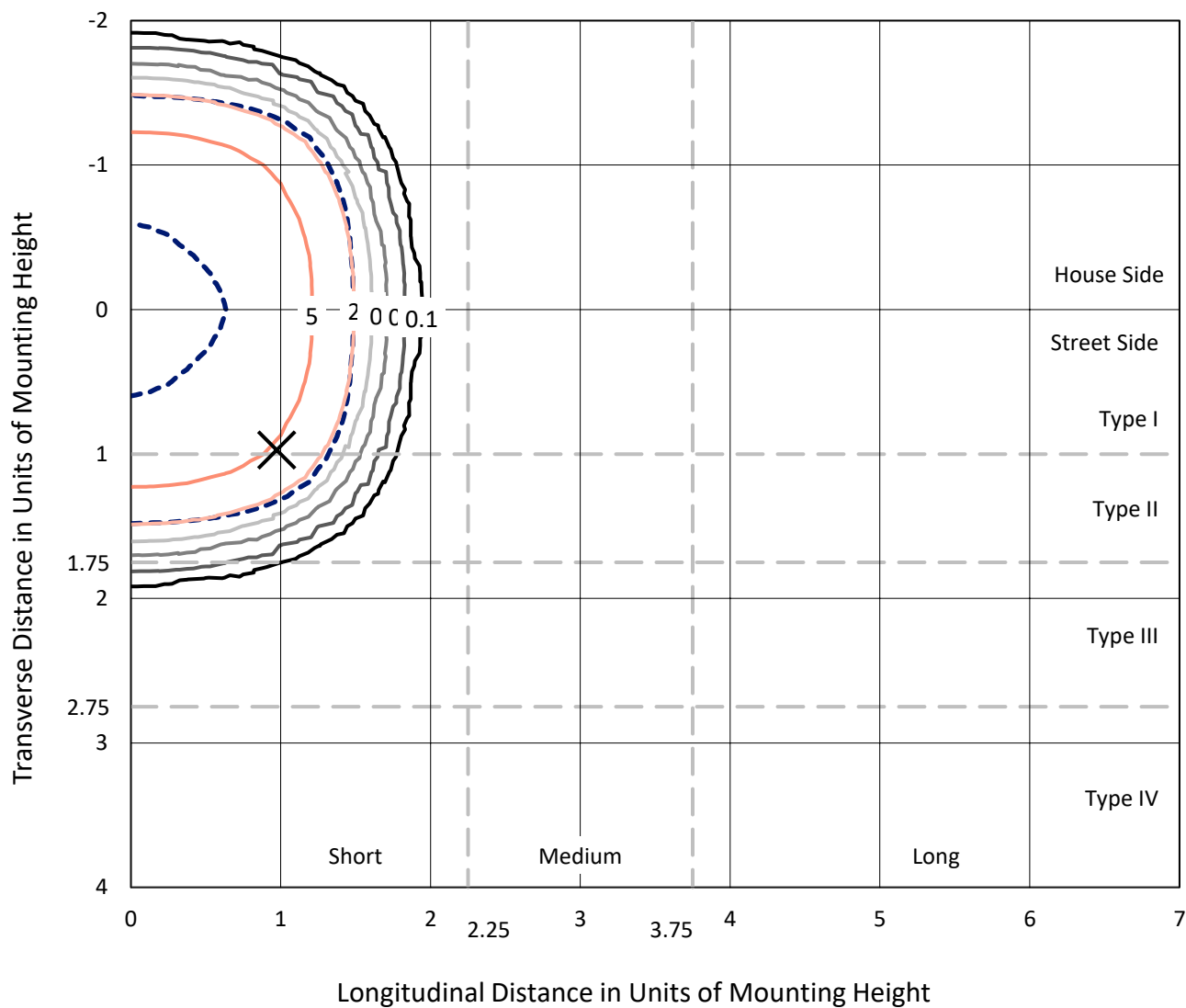
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

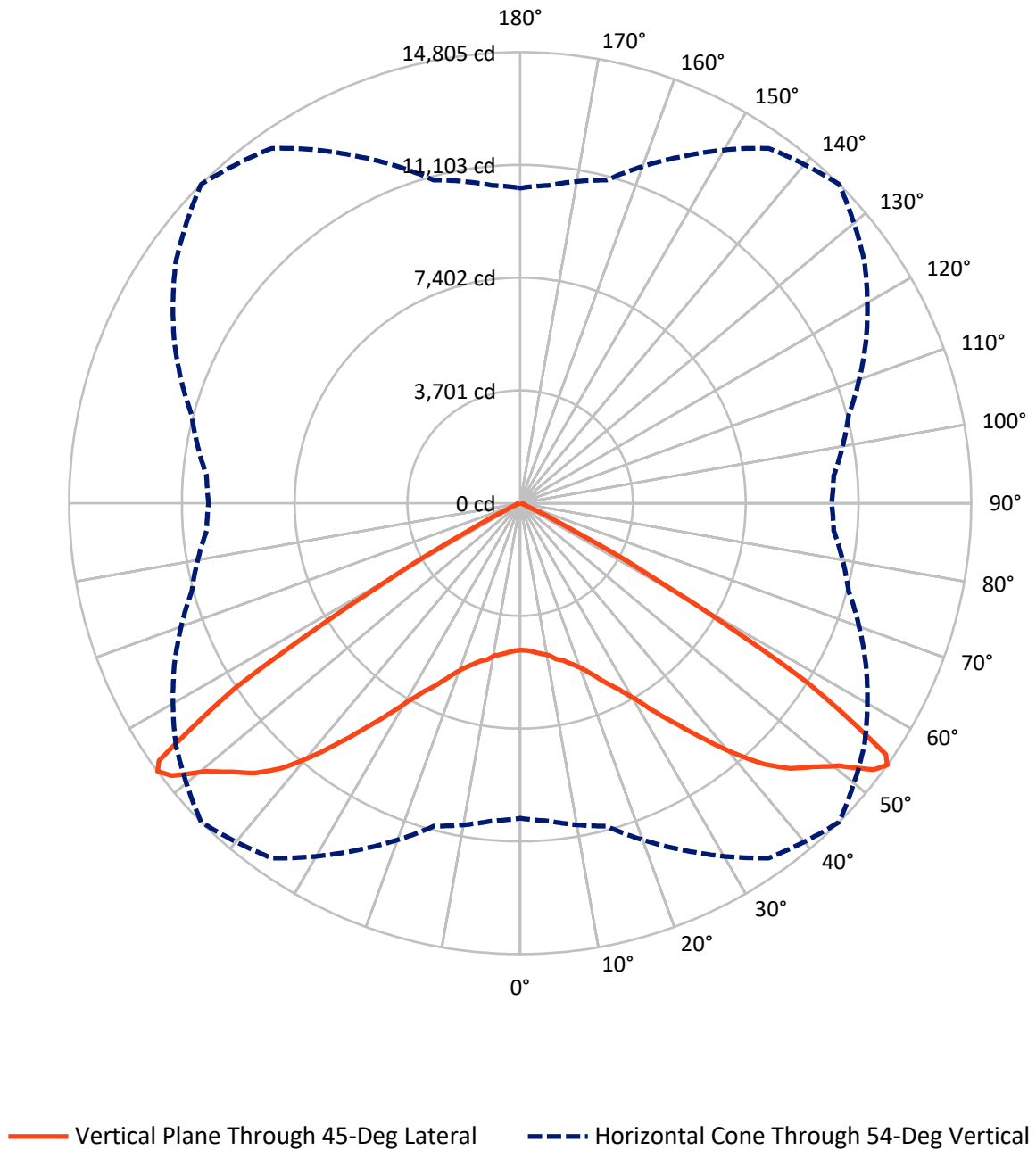
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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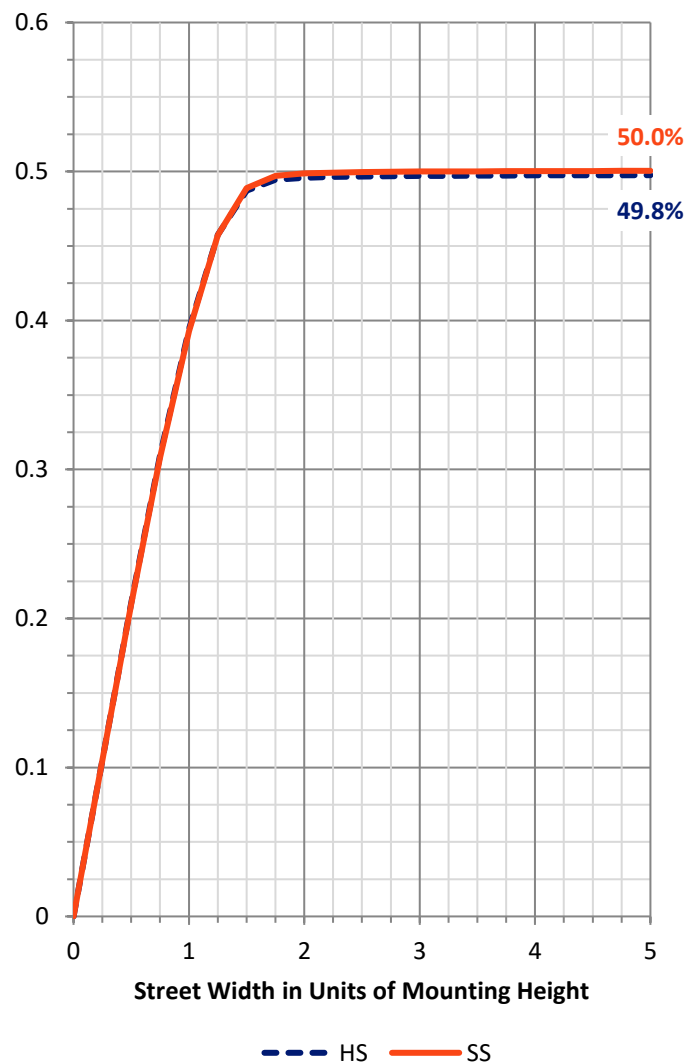
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 14707.0  | 0.0    | 14707.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 14707.0  | 0.0    | 14707.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 29414.0  | 0.0    | 29414.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 472.1   | 1.6       |
| 10°-20°   | 1528.7  | 5.2       |
| 20°-30°   | 2996.1  | 10.2      |
| 30°-40°   | 5387.7  | 18.3      |
| 40°-50°   | 9222.7  | 31.4      |
| 50°-60°   | 8923.8  | 30.3      |
| 60°-70°   | 763.9   | 2.6       |
| 70°-80°   | 90.6    | 0.3       |
| 80°-90°   | 28.4    | 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°    | 29414.0 | 100.0     |
| 0°-180°   | 29414.0 | 100.0     |

**Coefficient of Utilization**



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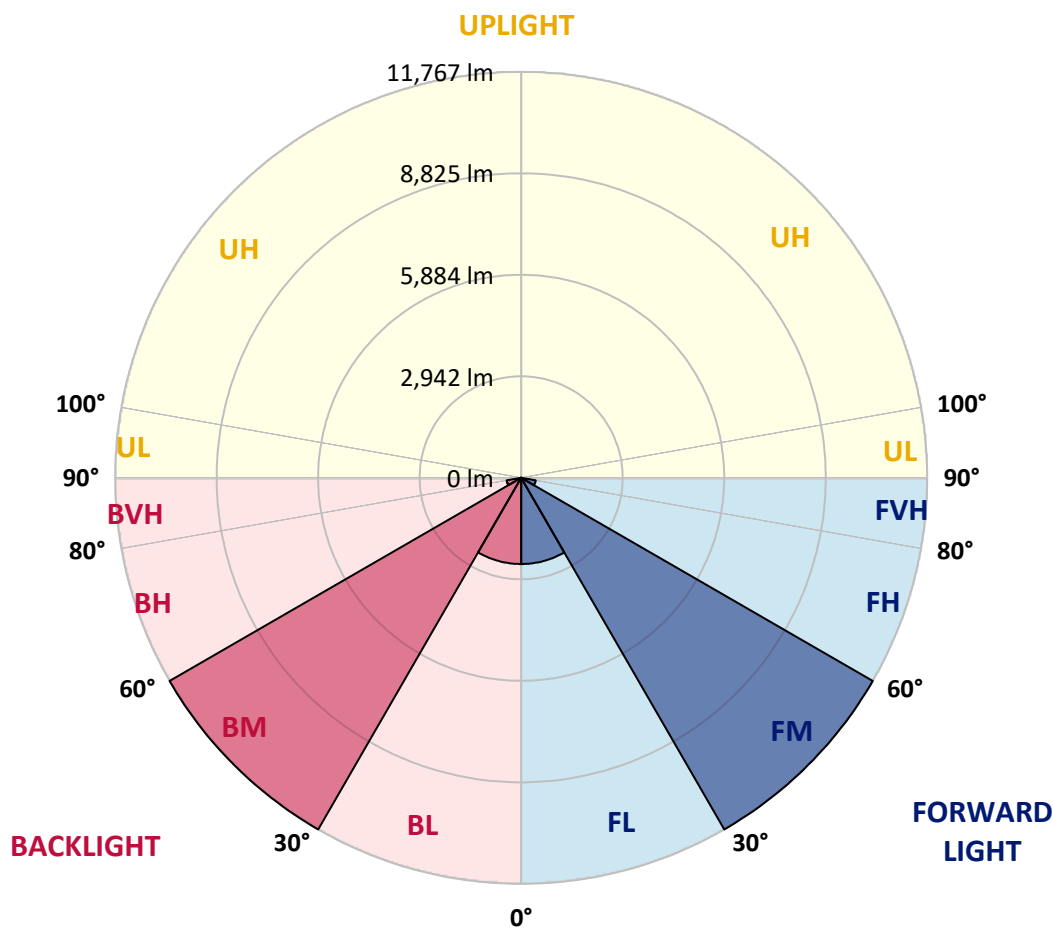
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 2498.4  | 8.5       |                         |      |        |
| FM   | (30°-60°)   | 11767.1 | 40.0      |                         |      |        |
| FH   | (60°-80°)   | 427.2   | 1.5       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 14.2    | 0.0       |                         |      | G1/100 |
| BL   | (0°-30°)    | 2498.4  | 8.5       | B3/2500                 |      |        |
| BM   | (30°-60°)   | 11767.1 | 40.0      | B5                      |      |        |
| BH   | (60°-80°)   | 427.2   | 1.5       | B1/500                  |      | G0/660 |
| BVH  | (80°-90°)   | 14.2    | 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°    | 4823.0  | 4823.0  | 4823.0  | 4823.0  | 4823.0  | 4823.0  | 4823.0  | 4823.0  | 4823.0  | 4823.0  | 4823.0  |
| 2.5°  | 4846.3  | 4874.2  | 4855.6  | 4869.6  | 4869.6  | 4846.3  | 4860.3  | 4804.3  | 4841.6  | 4813.7  | 4818.3  |
| 5°    | 4920.8  | 4916.2  | 4916.2  | 4920.8  | 4902.2  | 4911.5  | 4892.9  | 4874.2  | 4860.3  | 4841.6  | 4897.5  |
| 7.5°  | 5014.0  | 5014.0  | 4981.4  | 4990.7  | 4981.4  | 4995.4  | 4958.1  | 4920.8  | 4906.9  | 4892.9  | 4883.6  |
| 10°   | 5102.6  | 5093.3  | 5079.3  | 5121.2  | 5088.6  | 5070.0  | 5051.3  | 5028.0  | 4976.8  | 4958.1  | 4939.5  |
| 12.5° | 5233.0  | 5228.4  | 5209.7  | 5251.7  | 5233.0  | 5251.7  | 5181.8  | 5121.2  | 5111.9  | 5051.3  | 5083.9  |
| 15°   | 5386.8  | 5428.8  | 5396.1  | 5396.1  | 5386.8  | 5363.5  | 5335.6  | 5307.6  | 5223.7  | 5200.4  | 5205.1  |
| 17.5° | 5587.2  | 5573.2  | 5577.9  | 5577.9  | 5624.5  | 5563.9  | 5508.0  | 5438.1  | 5396.1  | 5382.2  | 5335.6  |
| 20°   | 5778.3  | 5796.9  | 5792.2  | 5824.9  | 5852.8  | 5787.6  | 5727.0  | 5717.7  | 5601.2  | 5619.8  | 5554.6  |
| 22.5° | 6113.8  | 6099.8  | 6123.1  | 6146.4  | 6127.7  | 6118.4  | 6062.5  | 5992.6  | 5890.1  | 5843.5  | 5834.2  |
| 25°   | 6467.9  | 6444.6  | 6402.7  | 6458.6  | 6486.6  | 6528.5  | 6421.3  | 6384.0  | 6225.6  | 6155.7  | 6160.4  |
| 27.5° | 6770.8  | 6803.4  | 6850.0  | 6873.3  | 6943.2  | 6929.2  | 6854.7  | 6733.5  | 6612.4  | 6533.2  | 6481.9  |
| 30°   | 7185.5  | 7204.2  | 7283.4  | 7316.0  | 7437.2  | 7469.8  | 7353.3  | 7213.5  | 6999.1  | 6896.6  | 6836.0  |
| 32.5° | 7567.7  | 7698.1  | 7693.5  | 7856.6  | 8052.3  | 8187.4  | 7977.7  | 7763.4  | 7549.0  | 7427.9  | 7320.7  |
| 35°   | 8187.4  | 8164.1  | 8299.3  | 8471.7  | 8788.5  | 8942.3  | 8714.0  | 8467.0  | 8140.8  | 7945.1  | 7861.2  |
| 37.5° | 8765.2  | 8774.6  | 8956.3  | 9231.2  | 9594.7  | 9832.4  | 9632.0  | 9226.6  | 8891.1  | 8639.4  | 8522.9  |
| 40°   | 9604.0  | 9622.7  | 9809.1  | 10121.3 | 10531.3 | 10787.6 | 10554.6 | 10144.6 | 9697.2  | 9501.5  | 9501.5  |
| 42.5° | 10587.3 | 10666.5 | 10787.6 | 11057.9 | 11426.0 | 11710.3 | 11500.6 | 11179.1 | 10727.1 | 10475.4 | 10512.7 |
| 45°   | 11598.5 | 11635.7 | 11714.9 | 12115.7 | 12288.1 | 12427.9 | 12232.2 | 12083.1 | 11780.2 | 11472.6 | 11421.4 |
| 47.5° | 12544.4 | 12558.4 | 12791.4 | 12917.2 | 13052.3 | 12935.8 | 13061.7 | 12865.9 | 12525.8 | 12227.5 | 12167.0 |
| 50°   | 12963.8 | 12940.5 | 13271.3 | 13653.5 | 13756.0 | 13550.9 | 13443.8 | 13313.3 | 12796.0 | 12437.2 | 12278.8 |
| 52.5° | 11742.9 | 11878.0 | 12493.1 | 13555.6 | 14357.1 | 14529.5 | 13905.1 | 13304.0 | 12339.4 | 11640.4 | 11533.2 |
| 54°   | 10344.9 | 10470.8 | 10978.7 | 12553.7 | 14222.0 | 14804.5 | 13797.9 | 12521.1 | 11160.4 | 10331.0 | 10223.8 |
| 55°   | 8961.0  | 8821.2  | 9743.8  | 11351.5 | 13588.2 | 14562.1 | 13373.9 | 11509.9 | 9953.5  | 9194.0  | 9044.8  |
| 57.5° | 4850.9  | 4874.2  | 5652.4  | 7171.6  | 9548.1  | 11165.1 | 9860.3  | 7786.7  | 5880.8  | 5028.0  | 4953.5  |
| 60°   | 1537.8  | 1575.0  | 1915.2  | 2898.4  | 4562.0  | 5447.4  | 4669.2  | 3126.8  | 2162.2  | 1733.5  | 1663.6  |
| 62.5° | 480.0   | 498.6   | 545.2   | 810.8   | 1248.8  | 1784.7  | 1398.0  | 838.8   | 624.4   | 573.2   | 582.5   |
| 65°   | 293.6   | 293.6   | 298.2   | 316.9   | 372.8   | 433.4   | 419.4   | 368.1   | 354.2   | 344.8   | 340.2   |
| 67.5° | 191.1   | 186.4   | 195.7   | 209.7   | 219.0   | 223.7   | 237.7   | 251.6   | 247.0   | 237.7   | 237.7   |
| 70°   | 116.5   | 111.8   | 121.2   | 139.8   | 144.5   | 153.8   | 167.8   | 186.4   | 181.7   | 172.4   | 177.1   |
| 72.5° | 65.2    | 65.2    | 69.9    | 83.9    | 97.9    | 107.2   | 121.2   | 135.1   | 139.8   | 135.1   | 135.1   |
| 75°   | 23.3    | 28.0    | 37.3    | 51.3    | 60.6    | 74.6    | 88.5    | 102.5   | 116.5   | 107.2   | 102.5   |
| 77.5° | 9.3     | 9.3     | 18.6    | 32.6    | 46.6    | 60.6    | 83.9    | 97.9    | 107.2   | 97.9    | 88.5    |
| 80°   | 4.7     | 4.7     | 14.0    | 28.0    | 41.9    | 55.9    | 69.9    | 83.9    | 88.5    | 79.2    | 69.9    |
| 82.5° | 4.7     | 4.7     | 14.0    | 28.0    | 41.9    | 51.3    | 74.6    | 83.9    | 93.2    | 83.9    | 69.9    |
| 85°   | 0.0     | 4.7     | 14.0    | 28.0    | 37.3    | 41.9    | 41.9    | 28.0    | 23.3    | 14.0    | 14.0    |
| 87.5° | 0.0     | 0.0     | 4.7     | 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)