

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: P530436

Luminaire Tested: **GALN-SA5C-830-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530436  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-830-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23735 lumens  
Efficiency: N/A  
Efficacy: 88.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 269  
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

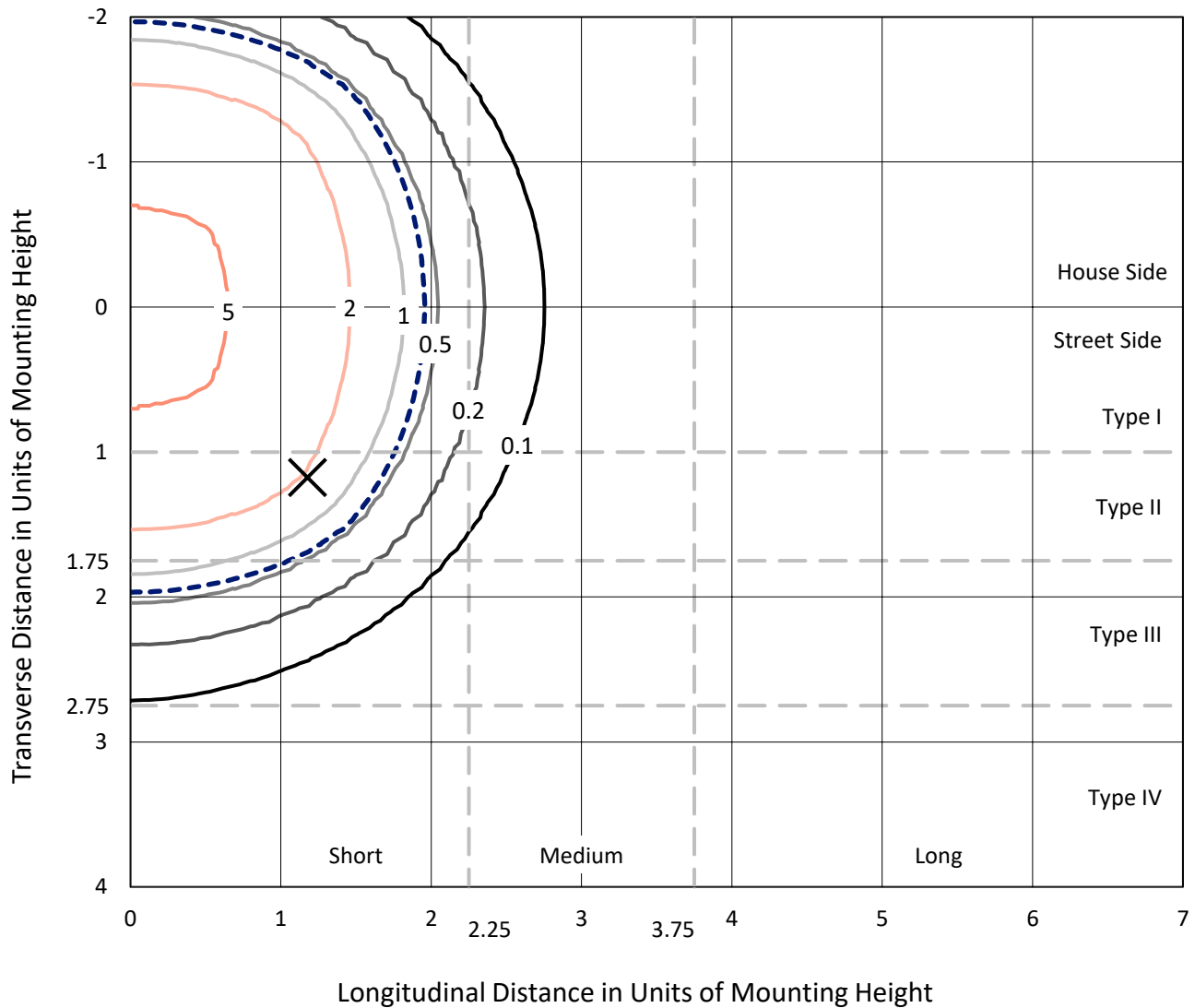


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 --- 1/2 Max cd

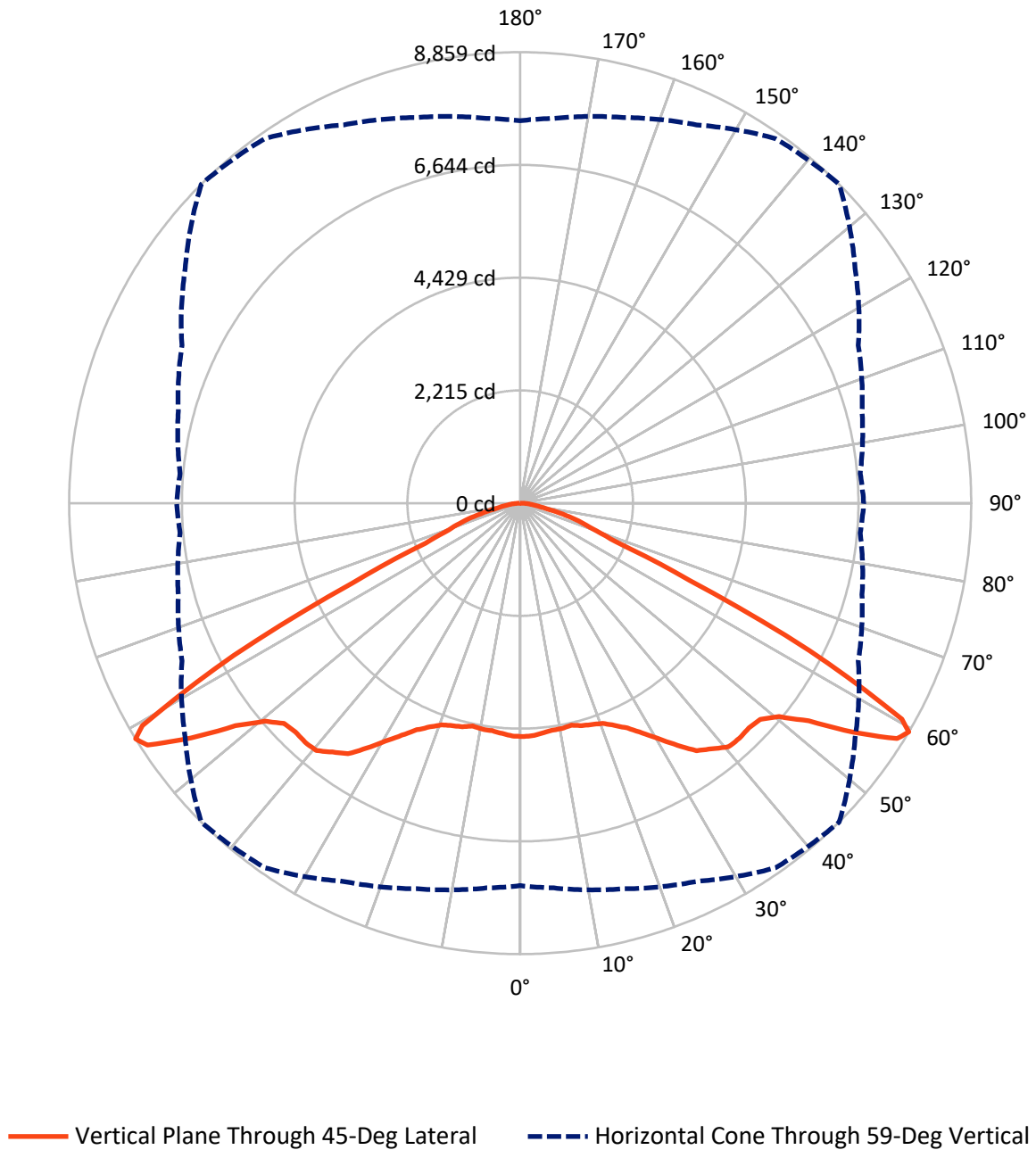


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11867.5  | 0.0    | 11867.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11867.5  | 0.0    | 11867.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 23735.0  | 0.0    | 23735.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 432.2   | 1.8       |
| 10°-20°   | 1285.2  | 5.4       |
| 20°-30°   | 2244.1  | 9.5       |
| 30°-40°   | 3584.1  | 15.1      |
| 40°-50°   | 4882.3  | 20.6      |
| 50°-60°   | 6602.2  | 27.8      |
| 60°-70°   | 3620.7  | 15.3      |
| 70°-80°   | 926.3   | 3.9       |
| 80°-90°   | 158.0   | 0.7       |
| 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°    | 23735.0 | 100.0     |
| 0°-180°   | 23735.0 | 100.0     |

**Coefficient of Utilization**



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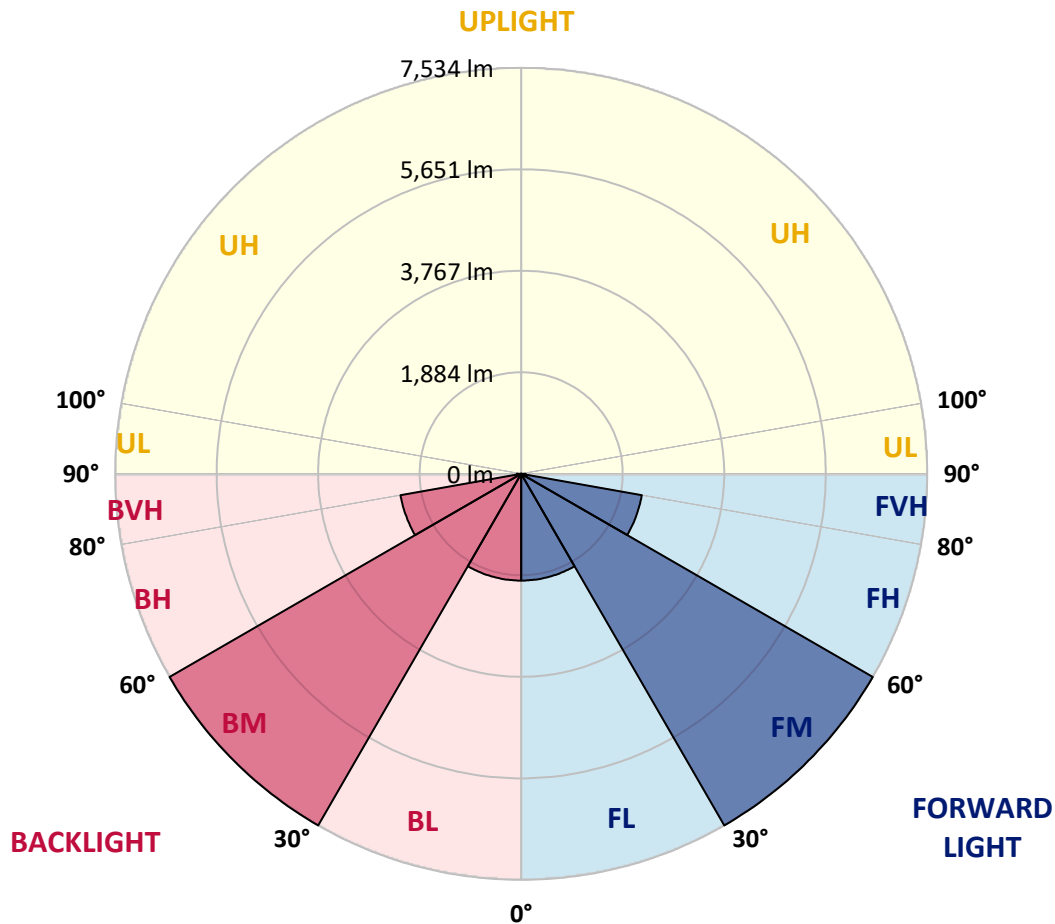
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1980.7 | 8.3       |                         |      |         |
| FM   | (30°-60°)   | 7534.3 | 31.7      |                         |      |         |
| FH   | (60°-80°)   | 2273.5 | 9.6       |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 79.0   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1980.7 | 8.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 7534.3 | 31.7      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 2273.5 | 9.6       | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 79.0   | 0.3       |                         |      | 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°    | 4584.5 | 4584.5 | 4584.5 | 4584.5 | 4584.5 | 4584.5 | 4584.5 | 4584.5 | 4584.5 | 4584.5 | 4584.5 |
| 2.5°  | 4557.1 | 4590.6 | 4566.2 | 4587.5 | 4584.5 | 4575.3 | 4560.1 | 4551.0 | 4538.8 | 4557.1 | 4526.7 |
| 5°    | 4538.8 | 4566.2 | 4593.6 | 4557.1 | 4557.1 | 4538.8 | 4529.7 | 4511.5 | 4511.5 | 4508.4 | 4505.4 |
| 7.5°  | 4569.3 | 4541.9 | 4529.7 | 4535.8 | 4541.9 | 4502.3 | 4529.7 | 4493.2 | 4462.8 | 4484.1 | 4508.4 |
| 10°   | 4541.9 | 4554.0 | 4508.4 | 4529.7 | 4496.2 | 4502.3 | 4484.1 | 4508.4 | 4475.0 | 4475.0 | 4475.0 |
| 12.5° | 4569.3 | 4535.8 | 4551.0 | 4535.8 | 4526.7 | 4475.0 | 4499.3 | 4471.9 | 4468.9 | 4499.3 | 4471.9 |
| 15°   | 4624.0 | 4569.3 | 4557.1 | 4526.7 | 4535.8 | 4535.8 | 4511.5 | 4514.5 | 4481.0 | 4499.3 | 4505.4 |
| 17.5° | 4605.8 | 4575.3 | 4566.2 | 4529.7 | 4560.1 | 4569.3 | 4523.6 | 4493.2 | 4514.5 | 4511.5 | 4508.4 |
| 20°   | 4621.0 | 4633.1 | 4624.0 | 4630.1 | 4642.3 | 4617.9 | 4575.3 | 4532.8 | 4505.4 | 4544.9 | 4541.9 |
| 22.5° | 4718.3 | 4706.2 | 4700.1 | 4694.0 | 4715.3 | 4739.6 | 4681.8 | 4614.9 | 4614.9 | 4642.3 | 4654.4 |
| 25°   | 4797.4 | 4794.4 | 4791.3 | 4818.7 | 4891.7 | 4891.7 | 4818.7 | 4733.5 | 4712.2 | 4730.5 | 4715.3 |
| 27.5° | 4913.0 | 4946.5 | 4934.3 | 4983.0 | 5089.5 | 5113.8 | 5016.4 | 4916.1 | 4858.3 | 4837.0 | 4864.3 |
| 30°   | 5177.7 | 5138.1 | 5147.3 | 5199.0 | 5293.3 | 5372.4 | 5223.3 | 5116.8 | 5037.7 | 5034.7 | 5046.9 |
| 32.5° | 5354.1 | 5384.5 | 5411.9 | 5460.6 | 5609.7 | 5670.5 | 5491.0 | 5317.6 | 5268.9 | 5241.6 | 5250.7 |
| 35°   | 5707.0 | 5679.6 | 5673.5 | 5722.2 | 5871.3 | 5971.7 | 5746.6 | 5594.4 | 5530.6 | 5591.4 | 5591.4 |
| 37.5° | 6041.6 | 5965.6 | 5907.8 | 5971.7 | 6108.6 | 6120.7 | 5929.1 | 5846.9 | 5813.5 | 5883.4 | 5880.4 |
| 40°   | 6199.8 | 6193.7 | 6059.9 | 6096.4 | 6278.9 | 6297.2 | 6117.7 | 6020.3 | 6014.3 | 6105.5 | 6196.8 |
| 42.5° | 6364.1 | 6306.3 | 6172.5 | 6196.8 | 6309.3 | 6315.4 | 6145.1 | 6117.7 | 6184.6 | 6272.8 | 6278.9 |
| 45°   | 6391.5 | 6342.8 | 6257.6 | 6196.8 | 6278.9 | 6297.2 | 6196.8 | 6215.0 | 6221.1 | 6327.6 | 6327.6 |
| 47.5° | 6446.2 | 6440.2 | 6391.5 | 6345.9 | 6361.1 | 6345.9 | 6282.0 | 6309.3 | 6400.6 | 6452.3 | 6428.0 |
| 50°   | 6598.3 | 6534.5 | 6583.1 | 6543.6 | 6546.6 | 6589.2 | 6531.4 | 6558.8 | 6540.5 | 6494.9 | 6464.5 |
| 52.5° | 6933.0 | 6902.6 | 6945.1 | 6972.5 | 7002.9 | 7100.3 | 7033.4 | 6887.3 | 6750.5 | 6628.8 | 6625.7 |
| 55°   | 7422.8 | 7444.1 | 7526.2 | 7666.1 | 7784.8 | 7939.9 | 7617.5 | 7267.6 | 7048.6 | 6856.9 | 6869.1 |
| 57.5° | 7885.2 | 7870.0 | 7982.5 | 8301.9 | 8648.7 | 8727.8 | 8095.1 | 7596.2 | 7240.2 | 7118.5 | 7066.8 |
| 59°   | 7514.0 | 7587.0 | 7842.6 | 8198.5 | 8743.0 | 8858.6 | 8031.2 | 7328.5 | 6951.2 | 6704.8 | 6747.4 |
| 60°   | 6929.9 | 6957.3 | 7185.5 | 7681.3 | 8417.5 | 8615.3 | 7602.2 | 6914.7 | 6412.8 | 6269.8 | 6333.7 |
| 62.5° | 4897.8 | 4876.5 | 5040.8 | 5445.4 | 6105.5 | 6373.2 | 5652.2 | 5168.6 | 4852.2 | 4694.0 | 4730.5 |
| 65°   | 2604.1 | 2701.4 | 2768.3 | 3020.8 | 3370.7 | 3653.6 | 3355.5 | 3145.5 | 2969.1 | 2838.3 | 2835.3 |
| 67.5° | 1758.3 | 1746.2 | 1761.4 | 1819.2 | 1937.8 | 2016.9 | 2010.8 | 1904.4 | 1889.2 | 1864.8 | 1892.2 |
| 70°   | 1481.5 | 1475.4 | 1448.0 | 1448.0 | 1472.4 | 1490.6 | 1511.9 | 1524.1 | 1548.4 | 1578.9 | 1575.8 |
| 72.5° | 1201.6 | 1186.4 | 1168.2 | 1159.0 | 1189.5 | 1198.6 | 1226.0 | 1238.1 | 1259.4 | 1256.4 | 1283.8 |
| 75°   | 794.0  | 794.0  | 815.3  | 839.6  | 848.8  | 867.0  | 870.0  | 906.6  | 906.6  | 912.6  | 888.3  |
| 77.5° | 444.1  | 432.0  | 447.2  | 471.5  | 492.8  | 526.3  | 559.7  | 587.1  | 602.3  | 596.3  | 596.3  |
| 80°   | 258.6  | 258.6  | 273.8  | 301.2  | 328.5  | 359.0  | 383.3  | 404.6  | 419.8  | 413.7  | 401.6  |
| 82.5° | 161.2  | 161.2  | 176.4  | 203.8  | 225.1  | 243.4  | 276.8  | 304.2  | 322.5  | 316.4  | 301.2  |
| 85°   | 82.1   | 82.1   | 100.4  | 118.6  | 146.0  | 158.2  | 155.1  | 143.0  | 139.9  | 124.7  | 124.7  |
| 87.5° | 21.3   | 21.3   | 30.4   | 33.5   | 27.4   | 30.4   | 30.4   | 30.4   | 30.4   | 30.4   | 33.5   |
| 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)