

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: P530414

Luminaire Tested: **GALN-SA5C-827-U-RW-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530414  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-827-U-RW-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22678 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

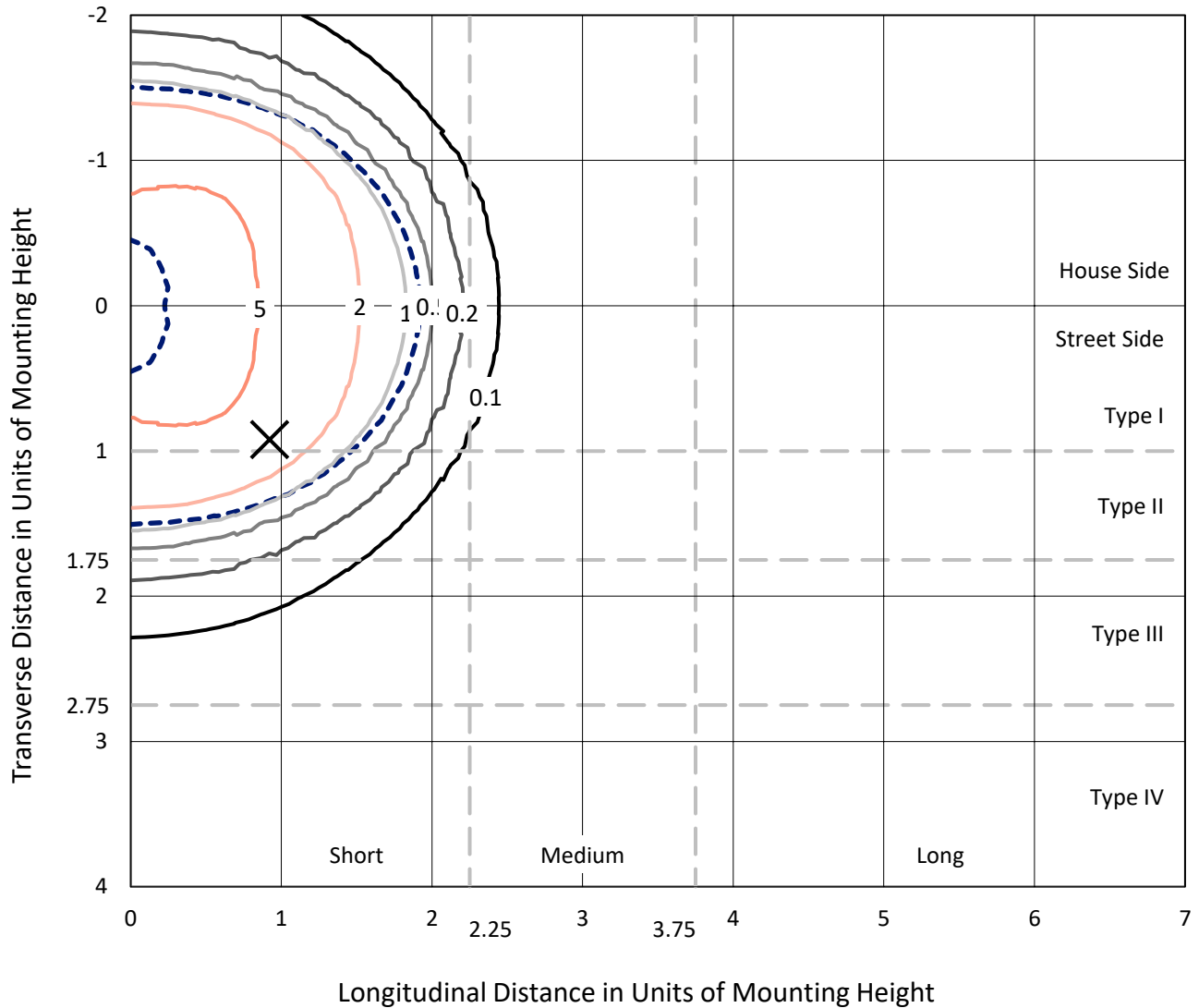
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

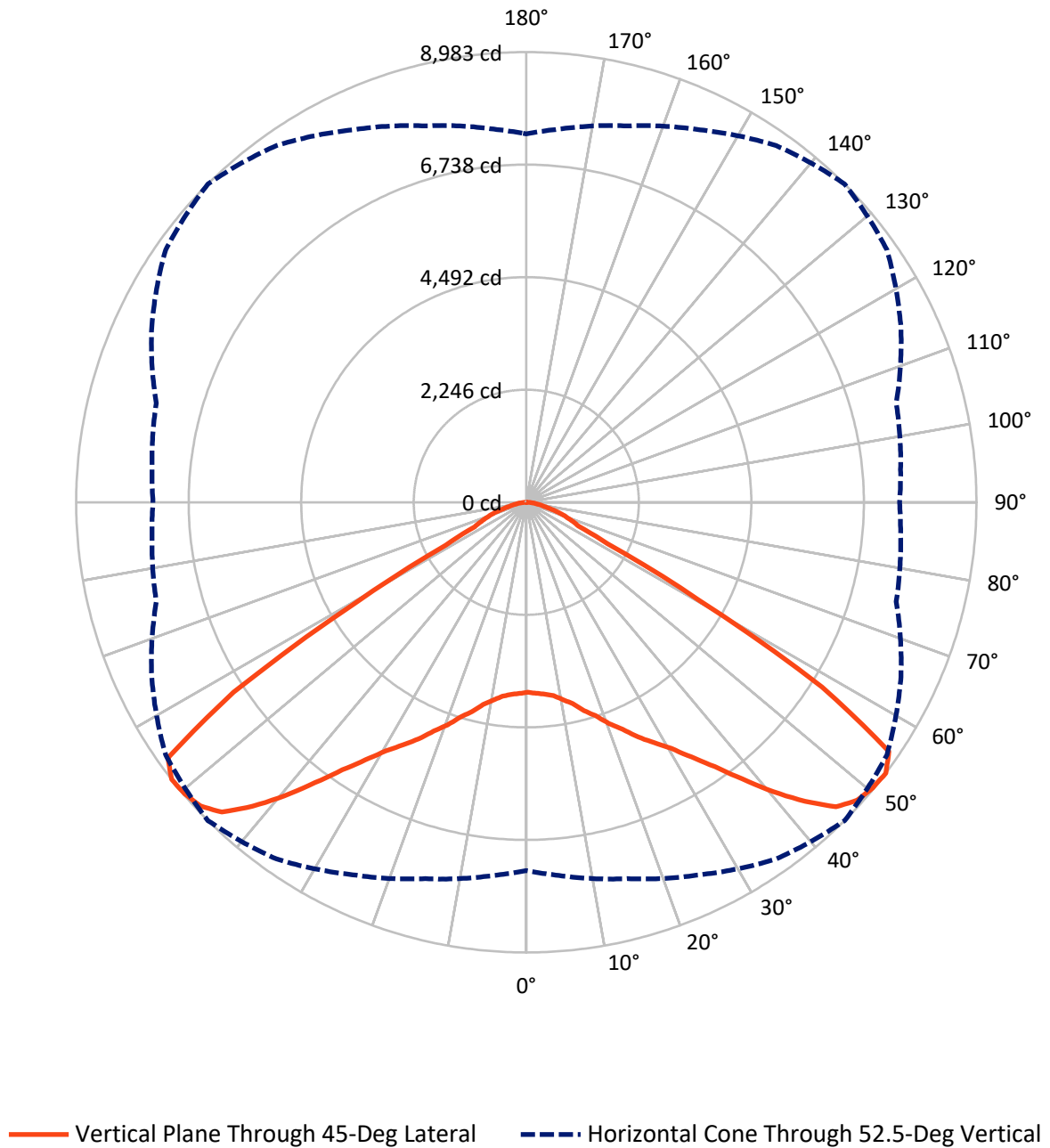
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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    | 11339.0  | 0.0    | 11339.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11339.0  | 0.0    | 11339.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 22678.0  | 0.0    | 22678.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 372.4   | 1.6       |
| 10°-20°   | 1223.8  | 5.4       |
| 20°-30°   | 2330.0  | 10.3      |
| 30°-40°   | 4000.8  | 17.6      |
| 40°-50°   | 6149.3  | 27.1      |
| 50°-60°   | 6244.5  | 27.5      |
| 60°-70°   | 1740.3  | 7.7       |
| 70°-80°   | 513.4   | 2.3       |
| 80°-90°   | 103.4   | 0.5       |
| 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°    | 22678.0 | 100.0     |
| 0°-180°   | 22678.0 | 100.0     |



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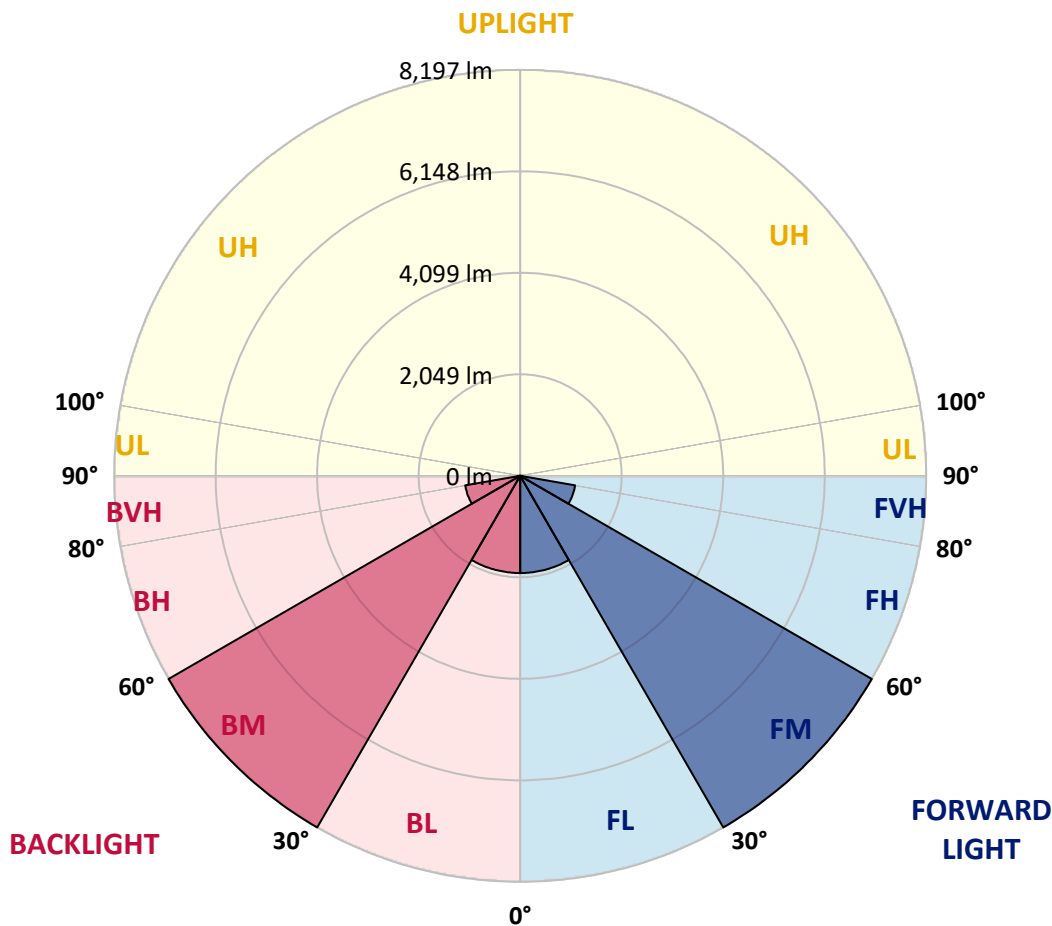
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1963.1 | 8.7       |                         |      |         |
| FM (30°-60°)   | 8197.3 | 36.1      |                         |      |         |
| FH (60°-80°)   | 1126.8 | 5.0       |                         |      | G1/1800 |
| FVH (80°-90°)  | 51.7   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 1963.1 | 8.7       | B3/2500                 |      |         |
| BM (30°-60°)   | 8197.3 | 36.1      | B4/8500                 |      |         |
| BH (60°-80°)   | 1126.8 | 5.0       | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 51.7   | 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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3790.9 | 3790.9 | 3790.9 | 3790.9 | 3790.9 | 3790.9 | 3790.9 | 3790.9 | 3790.9 | 3790.9 | 3790.9 |
| 2.5°  | 3799.4 | 3760.0 | 3774.0 | 3782.5 | 3819.1 | 3816.3 | 3807.8 | 3819.1 | 3830.3 | 3833.1 | 3827.5 |
| 5°    | 3796.6 | 3768.4 | 3779.7 | 3788.1 | 3824.7 | 3844.4 | 3838.8 | 3886.6 | 3920.4 | 3911.9 | 3954.2 |
| 7.5°  | 3774.0 | 3790.9 | 3776.9 | 3819.1 | 3850.0 | 3897.9 | 3948.5 | 3993.6 | 4035.8 | 4083.6 | 4092.1 |
| 10°   | 3824.7 | 3824.7 | 3850.0 | 3883.8 | 3965.4 | 4002.0 | 4075.2 | 4139.9 | 4221.5 | 4277.8 | 4255.3 |
| 12.5° | 3878.2 | 3886.6 | 3886.6 | 3973.9 | 4041.4 | 4123.0 | 4190.6 | 4277.8 | 4393.2 | 4460.7 | 4494.5 |
| 15°   | 3931.6 | 3937.3 | 3965.4 | 4083.6 | 4184.9 | 4314.4 | 4376.3 | 4455.1 | 4519.8 | 4646.5 | 4649.3 |
| 17.5° | 3979.5 | 4010.4 | 4094.9 | 4227.2 | 4353.8 | 4477.6 | 4576.1 | 4657.7 | 4714.0 | 4764.7 | 4753.4 |
| 20°   | 4159.6 | 4182.1 | 4269.4 | 4401.6 | 4590.2 | 4711.2 | 4745.0 | 4759.1 | 4795.6 | 4897.0 | 4866.0 |
| 22.5° | 4334.1 | 4342.5 | 4424.2 | 4626.8 | 4759.1 | 4919.5 | 4956.1 | 4947.6 | 4961.7 | 4987.0 | 5032.1 |
| 25°   | 4514.2 | 4528.3 | 4640.9 | 4812.5 | 4998.3 | 5189.7 | 5220.6 | 5155.9 | 5136.2 | 5164.3 | 5167.1 |
| 27.5° | 4745.0 | 4747.8 | 4891.3 | 5040.5 | 5251.6 | 5431.7 | 5479.5 | 5428.9 | 5336.0 | 5358.5 | 5395.1 |
| 30°   | 5037.7 | 5018.0 | 5161.5 | 5375.4 | 5597.7 | 5699.1 | 5780.7 | 5755.3 | 5654.0 | 5634.3 | 5603.4 |
| 32.5° | 5375.4 | 5381.0 | 5510.5 | 5744.1 | 5890.4 | 6059.3 | 6146.5 | 6104.3 | 6039.6 | 6005.8 | 6025.5 |
| 35°   | 5851.0 | 5876.4 | 5963.6 | 6157.8 | 6394.2 | 6478.6 | 6616.5 | 6526.5 | 6357.6 | 6399.8 | 6436.4 |
| 37.5° | 6242.2 | 6315.4 | 6478.6 | 6709.4 | 6850.1 | 7004.9 | 7055.6 | 6934.6 | 6810.7 | 6760.1 | 6881.1 |
| 40°   | 6841.7 | 6819.2 | 6999.3 | 7230.1 | 7438.3 | 7593.1 | 7528.4 | 7407.4 | 7100.6 | 7103.4 | 7137.2 |
| 42.5° | 7356.7 | 7368.0 | 7505.9 | 7781.7 | 8065.9 | 8161.6 | 7956.2 | 7660.7 | 7320.1 | 7283.5 | 7356.7 |
| 45°   | 7790.1 | 7835.1 | 7913.9 | 8282.6 | 8561.2 | 8665.4 | 8285.4 | 7936.5 | 7480.5 | 7328.6 | 7449.6 |
| 47.5° | 7944.9 | 8018.1 | 8189.8 | 8527.5 | 8803.3 | 8887.7 | 8583.8 | 8082.8 | 7629.7 | 7382.0 | 7446.8 |
| 50°   | 7967.4 | 7942.1 | 8223.5 | 8533.1 | 8775.1 | 8958.1 | 8690.7 | 8189.8 | 7593.1 | 7463.7 | 7444.0 |
| 52.5° | 7351.1 | 7474.9 | 7776.0 | 8201.0 | 8690.7 | 8983.4 | 8786.4 | 8248.9 | 7643.8 | 7497.4 | 7449.6 |
| 55°   | 5949.5 | 5803.2 | 6352.0 | 7066.8 | 7967.4 | 8780.8 | 8752.6 | 8279.8 | 7674.7 | 7553.7 | 7489.0 |
| 57.5° | 3320.9 | 3363.1 | 3672.7 | 4449.5 | 5611.8 | 6962.7 | 7781.7 | 7953.3 | 7660.7 | 7590.3 | 7624.1 |
| 60°   | 1536.6 | 1550.7 | 1683.0 | 2046.0 | 2766.5 | 3948.5 | 5026.4 | 6121.2 | 6625.0 | 6726.3 | 6726.3 |
| 62.5° | 1145.4 | 1139.8 | 1173.6 | 1238.3 | 1390.3 | 1815.3 | 2423.2 | 3292.8 | 3985.1 | 4469.2 | 4595.8 |
| 65°   | 1035.7 | 1032.9 | 1049.8 | 1072.3 | 1083.5 | 1142.6 | 1277.7 | 1545.1 | 1770.2 | 1899.7 | 1877.2 |
| 67.5° | 906.2  | 903.4  | 909.0  | 923.1  | 942.8  | 973.8  | 1007.5 | 1063.8 | 1142.6 | 1137.0 | 1122.9 |
| 70°   | 731.7  | 731.7  | 740.2  | 751.4  | 773.9  | 810.5  | 849.9  | 889.3  | 956.9  | 971.0  | 968.1  |
| 72.5° | 540.4  | 531.9  | 548.8  | 571.3  | 593.8  | 638.9  | 681.1  | 717.7  | 765.5  | 779.6  | 773.9  |
| 75°   | 343.4  | 349.0  | 360.2  | 385.6  | 425.0  | 455.9  | 501.0  | 531.9  | 562.9  | 574.1  | 576.9  |
| 77.5° | 191.4  | 197.0  | 216.7  | 247.7  | 287.1  | 320.8  | 360.2  | 385.6  | 405.3  | 408.1  | 410.9  |
| 80°   | 115.4  | 118.2  | 137.9  | 166.0  | 199.8  | 236.4  | 267.4  | 292.7  | 309.6  | 301.1  | 298.3  |
| 82.5° | 70.4   | 73.2   | 90.1   | 115.4  | 143.5  | 171.7  | 205.4  | 228.0  | 244.8  | 233.6  | 222.3  |
| 85°   | 36.6   | 39.4   | 53.5   | 70.4   | 92.9   | 106.9  | 106.9  | 95.7   | 92.9   | 87.2   | 84.4   |
| 87.5° | 11.3   | 11.3   | 14.1   | 16.9   | 14.1   | 16.9   | 19.7   | 22.5   | 22.5   | 25.3   | 22.5   |
| 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)