

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: P530018

Luminaire Tested: **GALN-SA5B-727-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530018  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-727-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21465 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

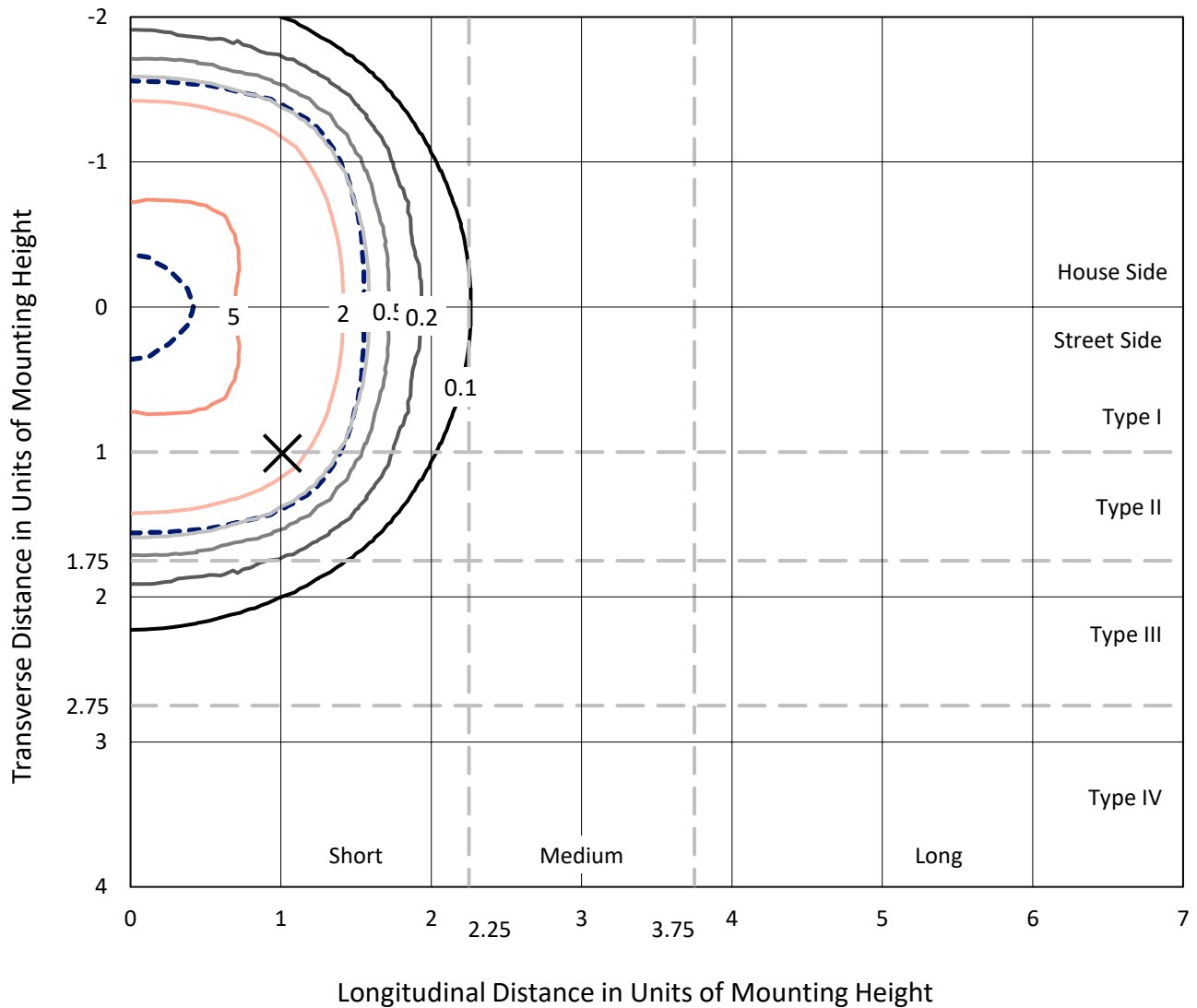
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

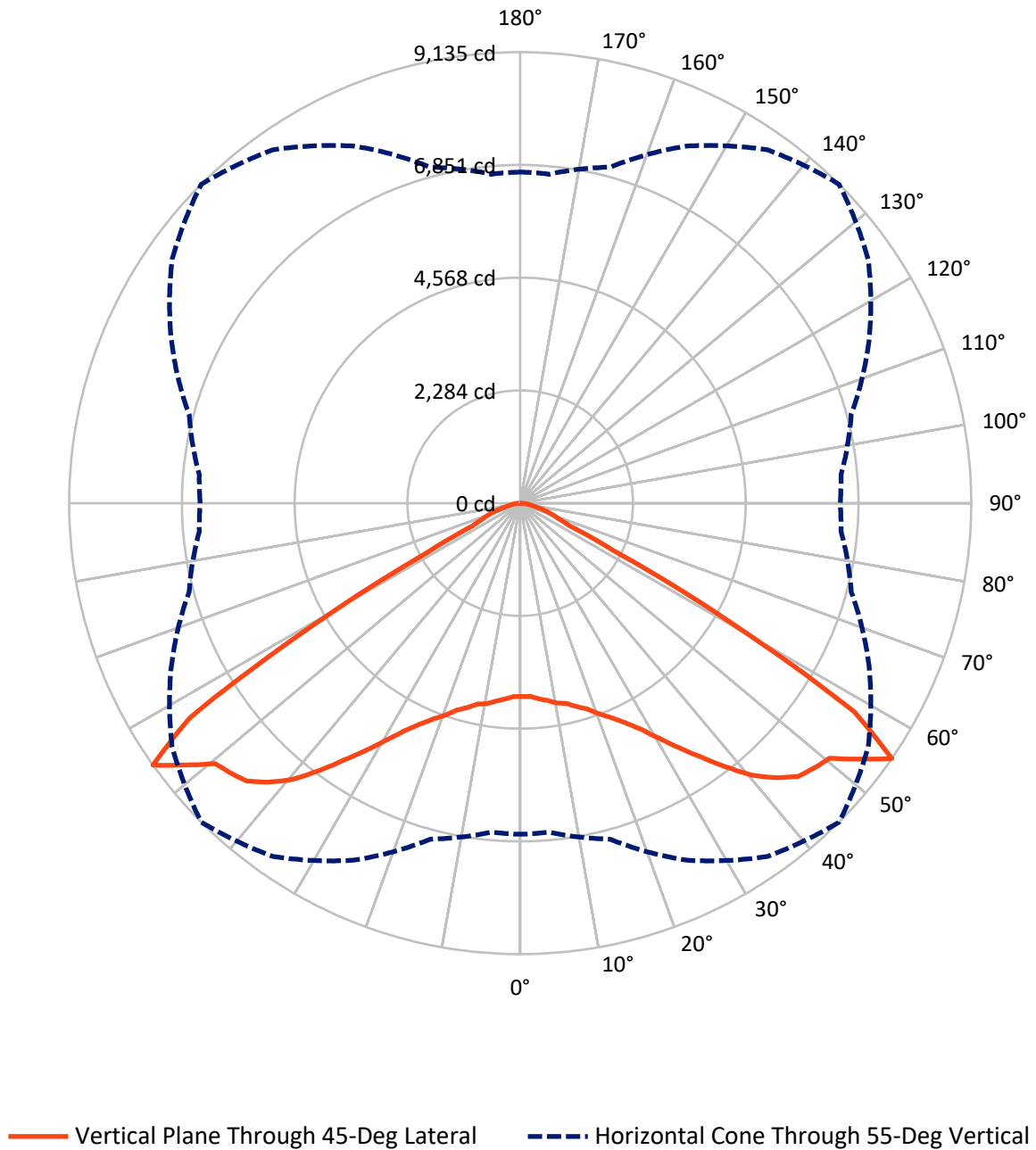
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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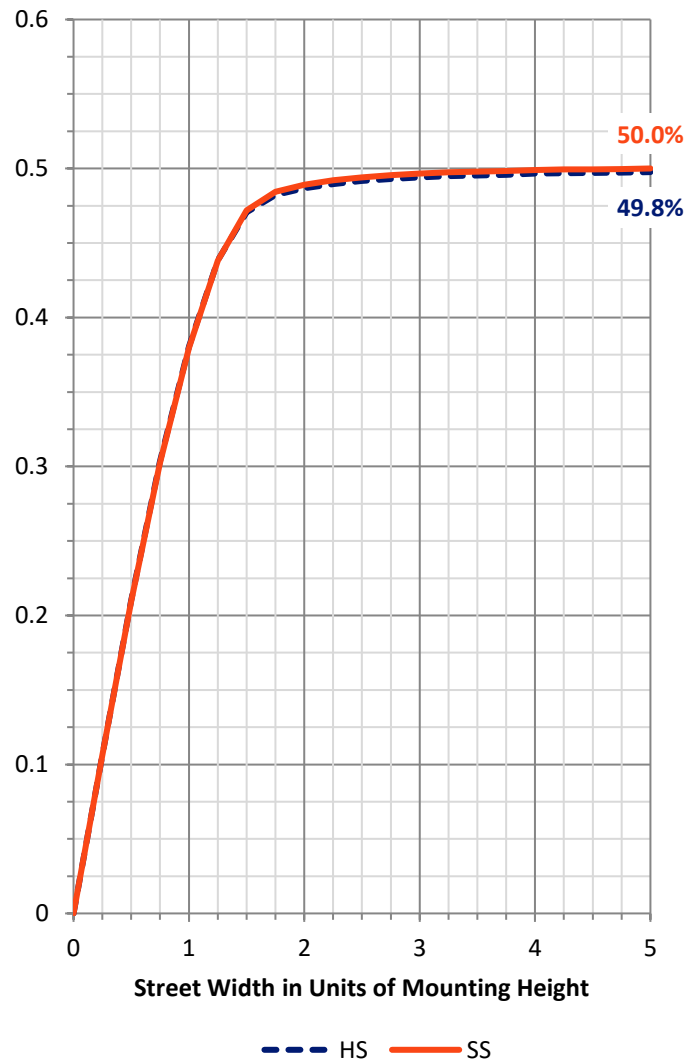
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10732.5  | 0.0    | 10732.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 10732.5  | 0.0    | 10732.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 21465.0  | 0.0    | 21465.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 382.9   | 1.8       |
| 10°-20°   | 1213.1  | 5.7       |
| 20°-30°   | 2262.1  | 10.5      |
| 30°-40°   | 3787.5  | 17.6      |
| 40°-50°   | 5893.6  | 27.5      |
| 50°-60°   | 6119.4  | 28.5      |
| 60°-70°   | 1297.7  | 6.0       |
| 70°-80°   | 427.4   | 2.0       |
| 80°-90°   | 81.4    | 0.4       |
| 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°    | 21465.0 | 100.0     |
| 0°-180°   | 21465.0 | 100.0     |

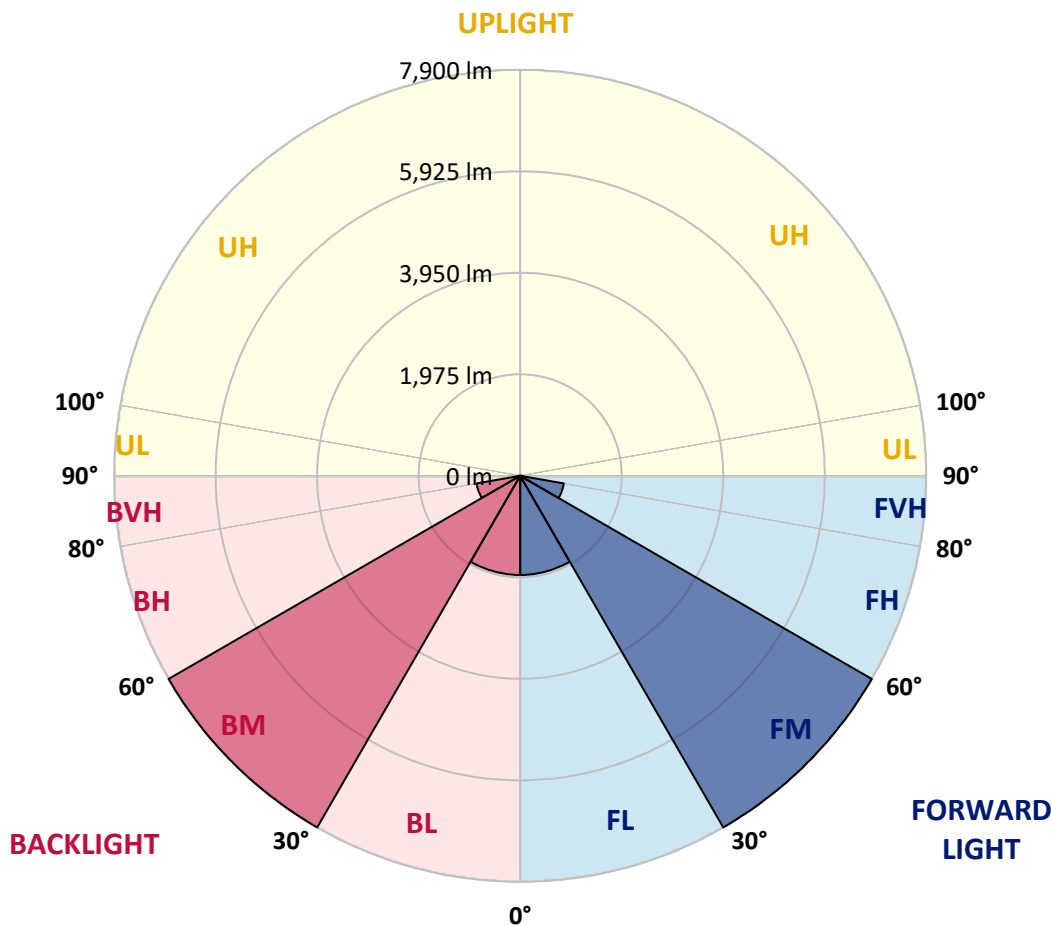


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1929.0 | 9.0       |                         |      |         |
| FM (30°-60°)   | 7900.2 | 36.8      |                         |      |         |
| FH (60°-80°)   | 862.6  | 4.0       |                         |      | G1/1800 |
| FVH (80°-90°)  | 40.7   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 1929.0 | 9.0       | B3/2500                 |      |         |
| BM (30°-60°)   | 7900.2 | 36.8      | B4/8500                 |      |         |
| BH (60°-80°)   | 862.6  | 4.0       | B2/1000                 |      | G1/1800 |
| BVH (80°-90°)  | 40.7   | 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°    | 3919.2 | 3919.2 | 3919.2 | 3919.2 | 3919.2 | 3919.2 | 3919.2 | 3919.2 | 3919.2 | 3919.2 | 3919.2 |
| 2.5°  | 3965.9 | 3947.7 | 3916.6 | 3939.9 | 3958.1 | 3919.2 | 3934.8 | 3942.5 | 3937.3 | 3916.6 | 3924.4 |
| 5°    | 4022.9 | 4012.6 | 3986.6 | 4004.8 | 3981.4 | 3981.4 | 3965.9 | 3945.1 | 3976.3 | 3971.1 | 3984.0 |
| 7.5°  | 4022.9 | 4010.0 | 4061.8 | 4028.1 | 4038.5 | 4038.5 | 4012.6 | 3991.8 | 4007.4 | 3984.0 | 3971.1 |
| 10°   | 4103.3 | 4121.5 | 4098.2 | 4105.9 | 4100.8 | 4118.9 | 4080.0 | 4067.0 | 4054.1 | 4046.3 | 4030.7 |
| 12.5° | 4199.3 | 4186.3 | 4194.1 | 4188.9 | 4207.1 | 4160.4 | 4137.1 | 4108.5 | 4131.9 | 4098.2 | 4121.5 |
| 15°   | 4277.1 | 4269.3 | 4277.1 | 4297.9 | 4279.7 | 4277.1 | 4235.6 | 4207.1 | 4170.8 | 4178.6 | 4142.3 |
| 17.5° | 4383.5 | 4375.7 | 4378.3 | 4396.4 | 4393.8 | 4380.9 | 4349.8 | 4295.3 | 4282.3 | 4261.6 | 4238.2 |
| 20°   | 4541.7 | 4528.7 | 4523.5 | 4531.3 | 4544.3 | 4554.7 | 4492.4 | 4471.7 | 4427.6 | 4393.8 | 4354.9 |
| 22.5° | 4676.6 | 4671.4 | 4692.1 | 4658.4 | 4686.9 | 4718.1 | 4658.4 | 4648.0 | 4539.1 | 4520.9 | 4479.4 |
| 25°   | 4863.3 | 4855.5 | 4842.6 | 4891.9 | 4925.6 | 4923.0 | 4865.9 | 4808.9 | 4725.9 | 4705.1 | 4705.1 |
| 27.5° | 5060.4 | 5016.4 | 5083.8 | 5096.8 | 5156.4 | 5174.6 | 5125.3 | 5042.3 | 4964.5 | 4920.4 | 4930.8 |
| 30°   | 5306.9 | 5265.4 | 5280.9 | 5374.3 | 5452.1 | 5519.5 | 5395.0 | 5273.1 | 5164.2 | 5086.4 | 5073.4 |
| 32.5° | 5553.3 | 5511.8 | 5558.5 | 5649.2 | 5804.9 | 5906.0 | 5784.1 | 5571.4 | 5444.3 | 5330.2 | 5353.5 |
| 35°   | 5753.0 | 5784.1 | 5859.3 | 5996.8 | 6157.6 | 6321.0 | 6126.5 | 5963.1 | 5781.5 | 5654.4 | 5672.6 |
| 37.5° | 6074.6 | 6170.6 | 6230.2 | 6388.5 | 6616.7 | 6785.3 | 6583.0 | 6370.3 | 6175.8 | 6009.8 | 5952.7 |
| 40°   | 6494.8 | 6559.6 | 6627.1 | 6813.8 | 7083.6 | 7252.2 | 7060.2 | 6782.7 | 6590.8 | 6419.6 | 6411.8 |
| 42.5° | 6956.5 | 7018.7 | 7088.8 | 7317.0 | 7477.8 | 7604.9 | 7428.6 | 7280.7 | 7068.0 | 6933.2 | 6925.4 |
| 45°   | 7493.4 | 7449.3 | 7527.1 | 7677.6 | 7812.4 | 7895.4 | 7781.3 | 7708.7 | 7555.7 | 7431.2 | 7418.2 |
| 47.5° | 7851.3 | 7812.4 | 7952.5 | 8087.4 | 8108.1 | 8017.3 | 8040.7 | 8108.1 | 7947.3 | 7742.4 | 7807.3 |
| 50°   | 8058.8 | 8058.8 | 8152.2 | 8276.7 | 8237.8 | 8121.1 | 8305.3 | 8310.4 | 8149.6 | 7968.1 | 7968.1 |
| 52.5° | 7698.3 | 7778.7 | 8043.3 | 8450.5 | 8580.2 | 8613.9 | 8572.4 | 8396.0 | 7975.8 | 7604.9 | 7586.8 |
| 55°   | 6707.5 | 6689.3 | 7047.3 | 7981.0 | 8735.8 | 9135.3 | 8606.1 | 7794.3 | 6940.9 | 6523.3 | 6481.8 |
| 57.5° | 4362.7 | 4383.5 | 4917.8 | 5869.7 | 7231.4 | 7975.8 | 7083.6 | 5942.3 | 4917.8 | 4342.0 | 4396.4 |
| 60°   | 1963.5 | 2033.5 | 2357.7 | 3068.4 | 4238.2 | 4845.2 | 4248.6 | 3224.1 | 2474.5 | 2147.6 | 2176.2 |
| 62.5° | 1128.3 | 1141.3 | 1154.2 | 1369.5 | 1805.3 | 2134.7 | 1875.3 | 1447.3 | 1276.1 | 1219.1 | 1219.1 |
| 65°   | 951.9  | 944.1  | 946.7  | 964.9  | 1011.6 | 1079.0 | 1050.5 | 1011.6 | 1016.8 | 1011.6 | 1003.8 |
| 67.5° | 809.3  | 819.6  | 811.9  | 824.8  | 827.4  | 837.8  | 855.9  | 871.5  | 874.1  | 879.3  | 874.1  |
| 70°   | 664.0  | 666.6  | 671.8  | 682.2  | 684.8  | 692.5  | 718.5  | 731.4  | 739.2  | 739.2  | 749.6  |
| 72.5° | 508.4  | 505.8  | 511.0  | 521.3  | 534.3  | 536.9  | 560.3  | 578.4  | 588.8  | 575.8  | 578.4  |
| 75°   | 334.6  | 337.2  | 345.0  | 352.8  | 370.9  | 389.1  | 396.8  | 415.0  | 417.6  | 422.8  | 409.8  |
| 77.5° | 199.7  | 204.9  | 212.7  | 228.3  | 243.8  | 259.4  | 277.5  | 290.5  | 295.7  | 290.5  | 274.9  |
| 80°   | 129.7  | 129.7  | 140.1  | 153.0  | 171.2  | 184.2  | 194.5  | 204.9  | 212.7  | 204.9  | 199.7  |
| 82.5° | 80.4   | 80.4   | 93.4   | 108.9  | 121.9  | 129.7  | 145.3  | 158.2  | 166.0  | 160.8  | 153.0  |
| 85°   | 41.5   | 44.1   | 54.5   | 67.4   | 77.8   | 83.0   | 80.4   | 72.6   | 64.8   | 62.3   | 57.1   |
| 87.5° | 13.0   | 13.0   | 15.6   | 15.6   | 13.0   | 13.0   | 15.6   | 13.0   | 15.6   | 15.6   | 15.6   |
| 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)