

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: P646982

Luminaire Tested: **GALN-SA6C-835-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646982  
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-SA6C-835-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1050mA 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: 29402.4 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

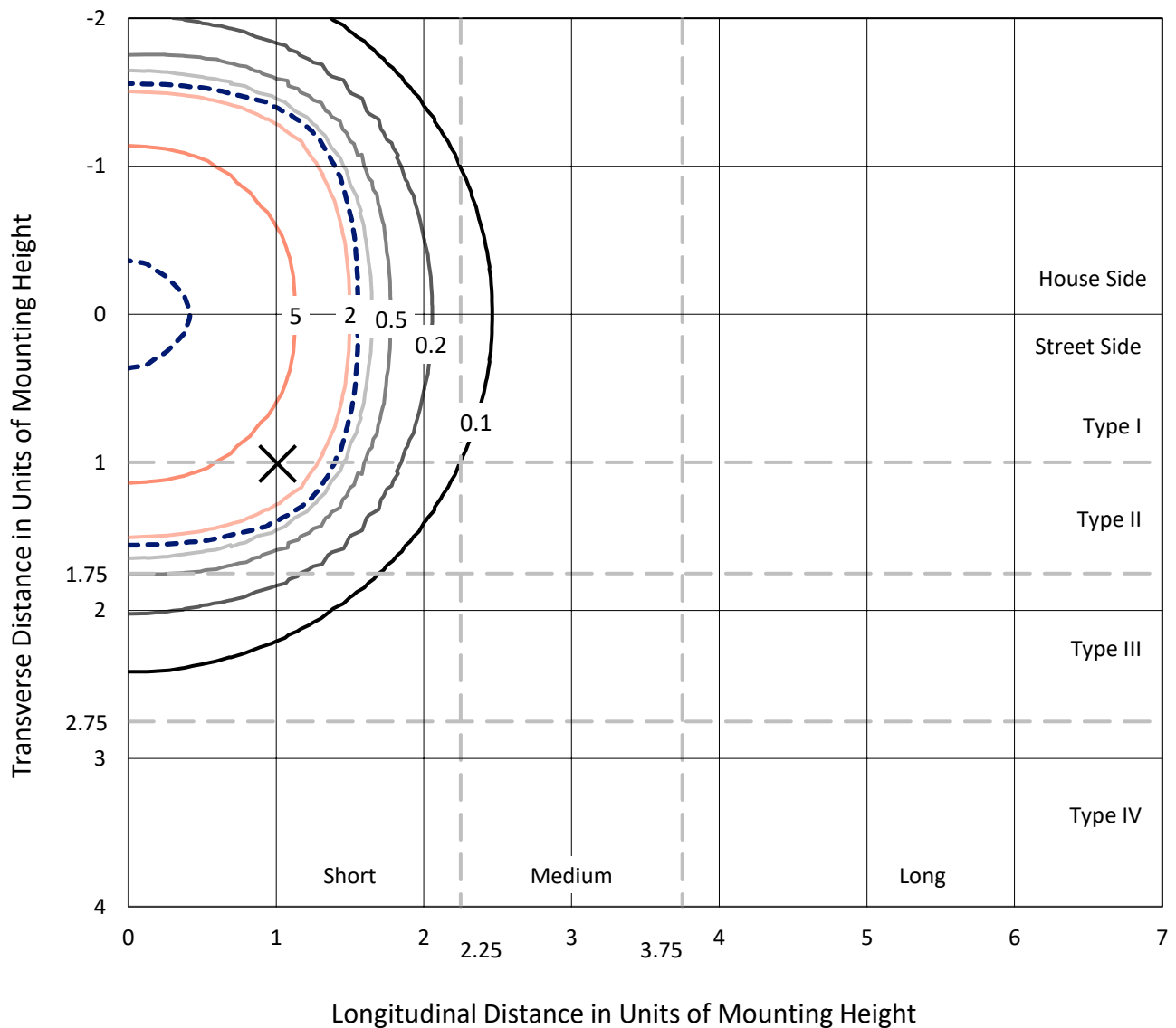
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

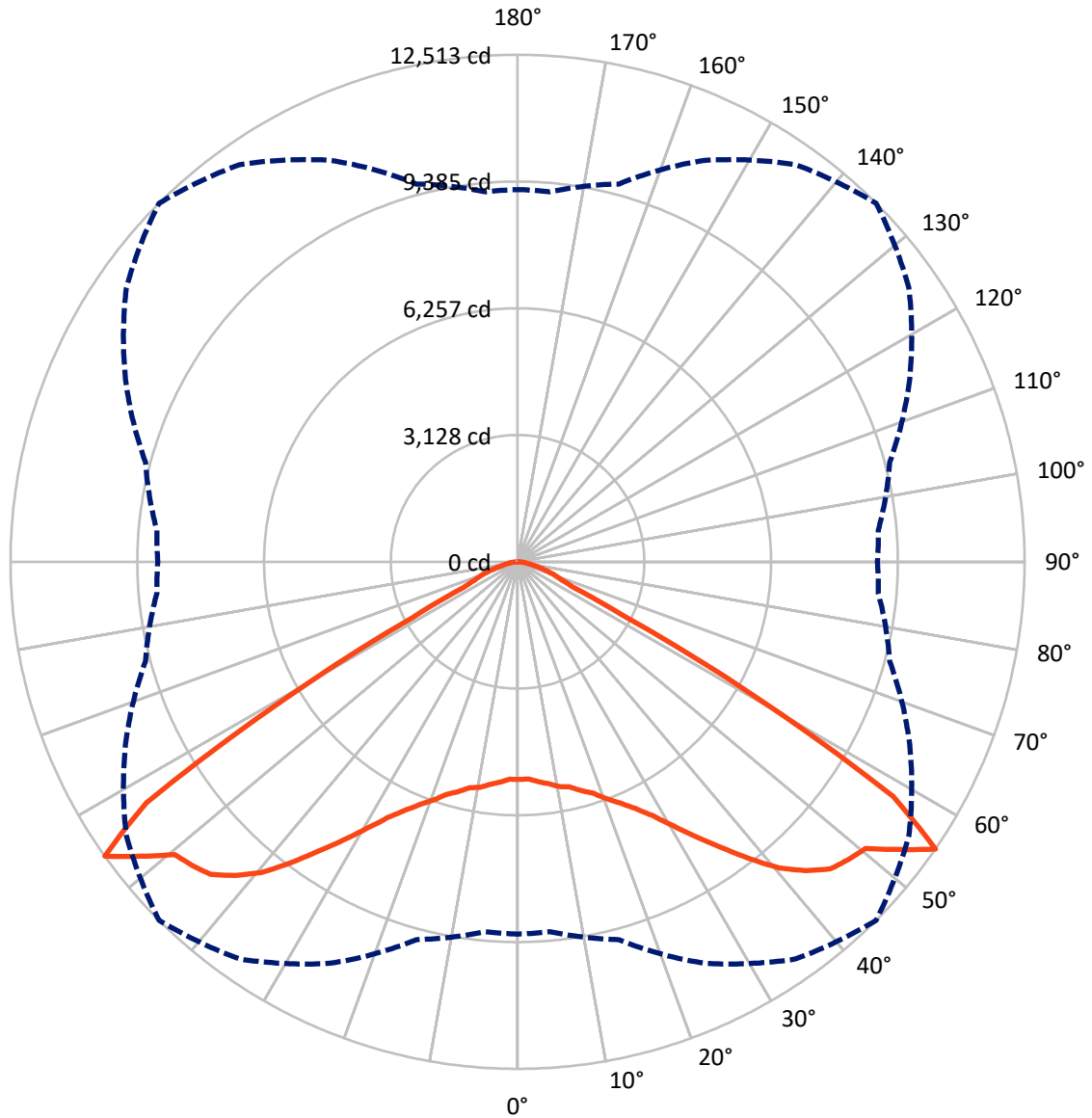
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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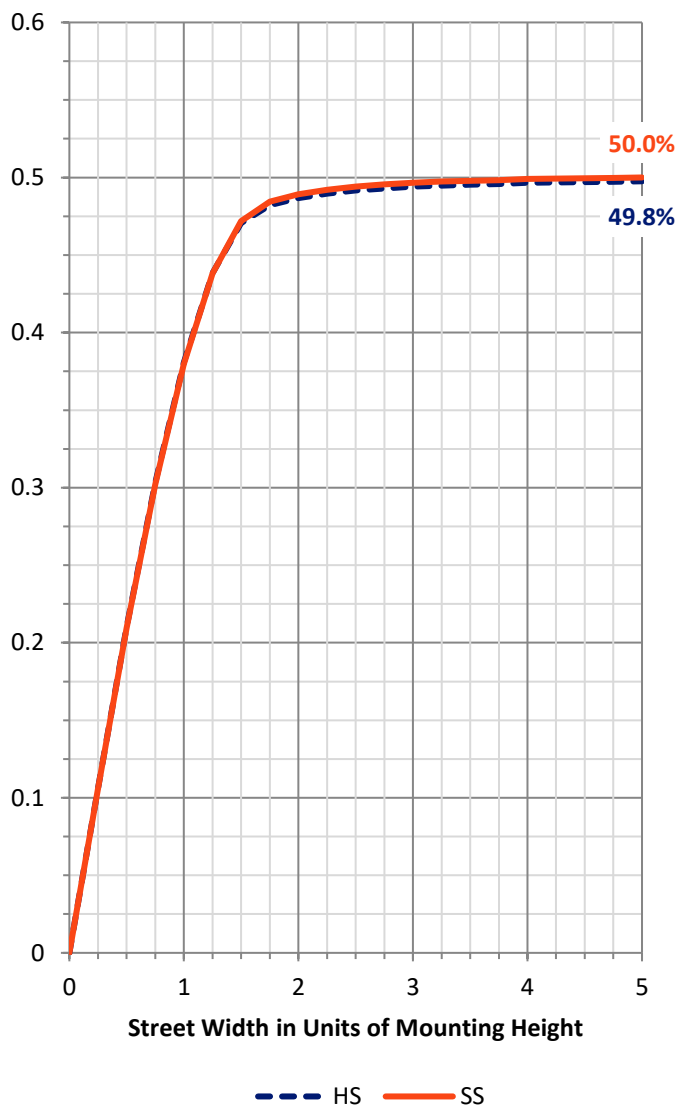
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 14701.2  | 0.0    | 14701.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 14701.2  | 0.0    | 14701.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 29402.4  | 0.0    | 29402.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 524.4   | 1.8       |
| 10°-20°   | 1661.7  | 5.7       |
| 20°-30°   | 3098.6  | 10.5      |
| 30°-40°   | 5188.0  | 17.6      |
| 40°-50°   | 8072.9  | 27.5      |
| 50°-60°   | 8382.2  | 28.5      |
| 60°-70°   | 1777.6  | 6.0       |
| 70°-80°   | 585.4   | 2.0       |
| 80°-90°   | 111.5   | 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°    | 29402.4 | 100.0     |
| 0°-180°   | 29402.4 | 100.0     |

**Coefficient of Utilization**



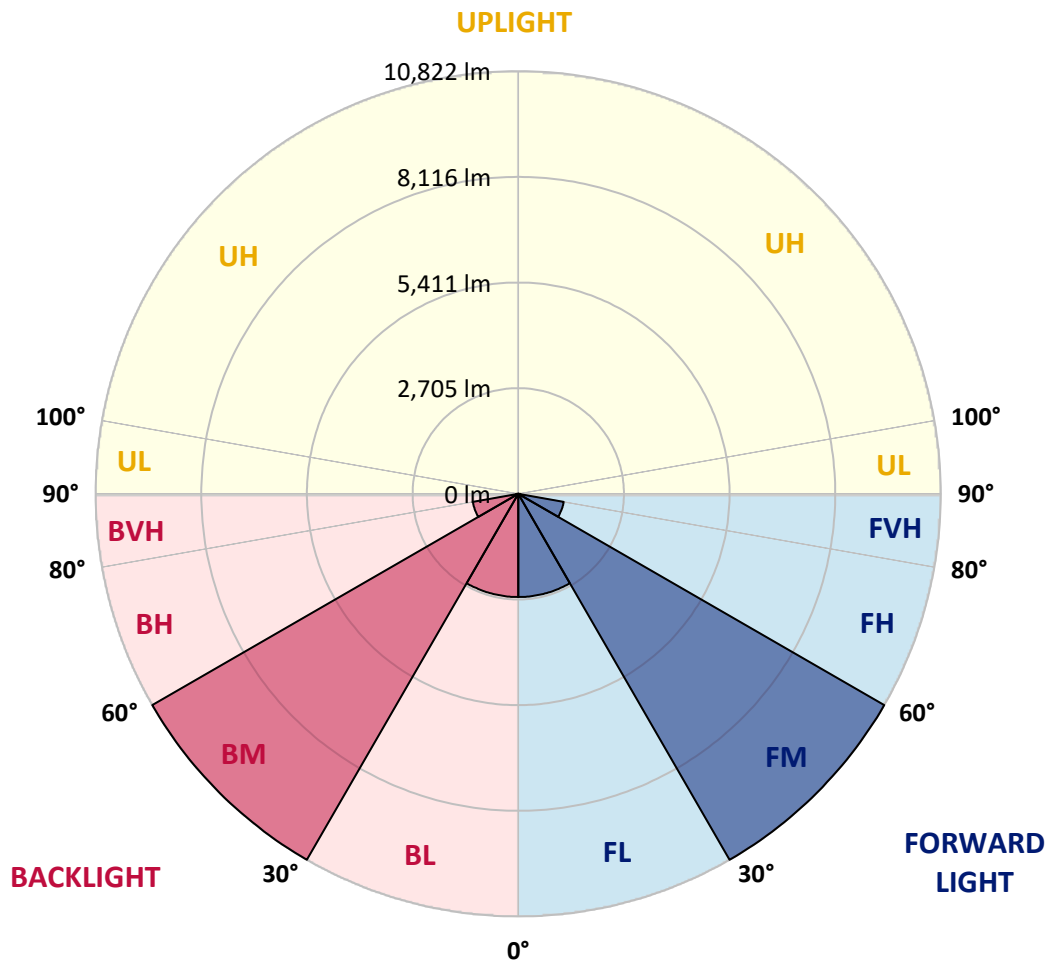
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2642.4  | 9.0       |                         |      |         |
| FM (30°-60°)   | 10821.6 | 36.8      |                         |      |         |
| FH (60°-80°)   | 1181.5  | 4.0       |                         |      | G1/1800 |
| FVH (80°-90°)  | 55.8    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 2642.4  | 9.0       | B4/5000                 |      |         |
| BM (30°-60°)   | 10821.6 | 36.8      | B5                      |      |         |
| BH (60°-80°)   | 1181.5  | 4.0       | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 55.8    | 0.2       |                         |      | 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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CATALOG NUMBER: GALN-SA6C-835-U-5NQ-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5368.5  | 5368.5  | 5368.5  | 5368.5  | 5368.5  | 5368.5  | 5368.5  | 5368.5  | 5368.5  | 5368.5  | 5368.5  |
| 2.5°  | 5432.4  | 5407.6  | 5364.9  | 5396.9  | 5421.7  | 5368.5  | 5389.8  | 5400.4  | 5393.3  | 5364.9  | 5375.5  |
| 5°    | 5510.6  | 5496.3  | 5460.8  | 5485.7  | 5453.8  | 5453.8  | 5432.4  | 5404.0  | 5446.6  | 5439.5  | 5457.3  |
| 7.5°  | 5510.6  | 5492.8  | 5563.8  | 5517.6  | 5531.9  | 5531.9  | 5496.3  | 5467.9  | 5489.2  | 5457.3  | 5439.5  |
| 10°   | 5620.7  | 5645.6  | 5613.6  | 5624.3  | 5617.2  | 5642.0  | 5588.7  | 5571.0  | 5553.2  | 5542.5  | 5521.2  |
| 12.5° | 5752.2  | 5734.4  | 5745.0  | 5738.0  | 5762.8  | 5698.8  | 5666.9  | 5627.8  | 5659.8  | 5613.6  | 5645.6  |
| 15°   | 5858.7  | 5848.1  | 5858.7  | 5887.1  | 5862.3  | 5858.7  | 5801.9  | 5762.8  | 5713.1  | 5723.7  | 5674.0  |
| 17.5° | 6004.4  | 5993.8  | 5997.3  | 6022.2  | 6018.6  | 6000.8  | 5958.2  | 5883.6  | 5865.8  | 5837.4  | 5805.5  |
| 20°   | 6221.2  | 6203.4  | 6196.3  | 6206.9  | 6224.7  | 6238.9  | 6153.7  | 6125.3  | 6064.8  | 6018.6  | 5965.4  |
| 22.5° | 6405.9  | 6398.8  | 6427.2  | 6381.1  | 6420.1  | 6462.7  | 6381.1  | 6366.8  | 6217.6  | 6192.7  | 6135.9  |
| 25°   | 6661.7  | 6651.0  | 6633.3  | 6700.8  | 6747.0  | 6743.4  | 6665.3  | 6587.1  | 6473.4  | 6445.0  | 6445.0  |
| 27.5° | 6931.7  | 6871.3  | 6963.7  | 6981.5  | 7063.2  | 7088.0  | 7020.5  | 6906.8  | 6800.3  | 6739.9  | 6754.1  |
| 30°   | 7269.2  | 7212.4  | 7233.7  | 7361.6  | 7468.3  | 7560.6  | 7390.0  | 7223.1  | 7073.9  | 6967.3  | 6949.5  |
| 32.5° | 7606.8  | 7549.9  | 7613.9  | 7738.2  | 7951.4  | 8090.0  | 7923.0  | 7631.7  | 7457.5  | 7301.2  | 7333.2  |
| 35°   | 7880.3  | 7923.0  | 8026.0  | 8214.3  | 8434.6  | 8658.4  | 8392.0  | 8168.1  | 7919.4  | 7745.4  | 7770.2  |
| 37.5° | 8320.9  | 8452.4  | 8534.1  | 8750.8  | 9063.5  | 9294.4  | 9017.3  | 8725.9  | 8459.5  | 8232.1  | 8153.9  |
| 40°   | 8896.4  | 8985.3  | 9077.7  | 9333.5  | 9703.0  | 9933.9  | 9671.0  | 9290.8  | 9027.9  | 8793.5  | 8782.8  |
| 42.5° | 9528.9  | 9614.1  | 9710.1  | 10022.8 | 10243.0 | 10417.1 | 10175.6 | 9973.0  | 9681.6  | 9496.9  | 9486.3  |
| 45°   | 10264.3 | 10204.0 | 10310.5 | 10516.6 | 10701.3 | 10815.0 | 10658.7 | 10559.2 | 10349.6 | 10179.1 | 10161.3 |
| 47.5° | 10754.7 | 10701.3 | 10893.3 | 11078.0 | 11106.4 | 10982.0 | 11014.0 | 11106.4 | 10886.1 | 10605.4 | 10694.3 |
| 50°   | 11038.9 | 11038.9 | 11166.8 | 11337.4 | 11284.0 | 11124.2 | 11376.4 | 11383.5 | 11163.2 | 10914.6 | 10914.6 |
| 52.5° | 10545.1 | 10655.1 | 11017.6 | 11575.4 | 11753.0 | 11799.2 | 11742.3 | 11500.8 | 10925.2 | 10417.1 | 10392.3 |
| 55°   | 9187.8  | 9163.0  | 9653.2  | 10932.3 | 11966.2 | 12513.4 | 11788.5 | 10676.5 | 9507.6  | 8935.6  | 8878.8  |
| 57.5° | 5976.0  | 6004.4  | 6736.3  | 8040.2  | 9905.5  | 10925.2 | 9703.0  | 8139.7  | 6736.3  | 5947.6  | 6022.2  |
| 60°   | 2689.5  | 2785.4  | 3229.6  | 4203.1  | 5805.5  | 6636.9  | 5819.6  | 4416.3  | 3389.5  | 2941.8  | 2980.9  |
| 62.5° | 1545.5  | 1563.3  | 1581.0  | 1875.9  | 2472.8  | 2924.0  | 2568.8  | 1982.6  | 1748.0  | 1669.9  | 1669.9  |
| 65°   | 1303.9  | 1293.3  | 1296.8  | 1321.7  | 1385.6  | 1478.0  | 1438.9  | 1385.6  | 1392.7  | 1385.6  | 1374.9  |
| 67.5° | 1108.5  | 1122.7  | 1112.1  | 1129.8  | 1133.4  | 1147.6  | 1172.5  | 1193.8  | 1197.4  | 1204.4  | 1197.4  |
| 70°   | 909.5   | 913.1   | 920.2   | 934.4   | 938.0   | 948.6   | 984.2   | 1001.9  | 1012.6  | 1012.6  | 1026.8  |
| 72.5° | 696.4   | 692.8   | 699.9   | 714.1   | 731.9   | 735.5   | 767.4   | 792.3   | 806.5   | 788.7   | 792.3   |
| 75°   | 458.3   | 461.9   | 472.5   | 483.2   | 508.1   | 532.9   | 543.6   | 568.5   | 572.0   | 579.1   | 561.3   |
| 77.5° | 273.6   | 280.7   | 291.4   | 312.7   | 333.9   | 355.3   | 380.1   | 397.9   | 405.0   | 397.9   | 376.6   |
| 80°   | 177.7   | 177.7   | 191.8   | 209.6   | 234.5   | 252.3   | 266.5   | 280.7   | 291.4   | 280.7   | 273.6   |
| 82.5° | 110.2   | 110.2   | 127.9   | 149.2   | 167.0   | 177.7   | 199.0   | 216.7   | 227.4   | 220.3   | 209.6   |
| 85°   | 56.8    | 60.4    | 74.6    | 92.4    | 106.6   | 113.7   | 110.2   | 99.5    | 88.8    | 85.3    | 78.1    |
| 87.5° | 17.8    | 17.8    | 21.3    | 21.3    | 17.8    | 17.8    | 21.3    | 17.8    | 21.3    | 21.3    | 21.3    |
| 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)