

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: P647260

Luminaire Tested: **GALN-SA2D-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647260  
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-SA2D-835-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1200mA 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: 10334 lumens  
Efficiency: N/A  
Efficacy: 82.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

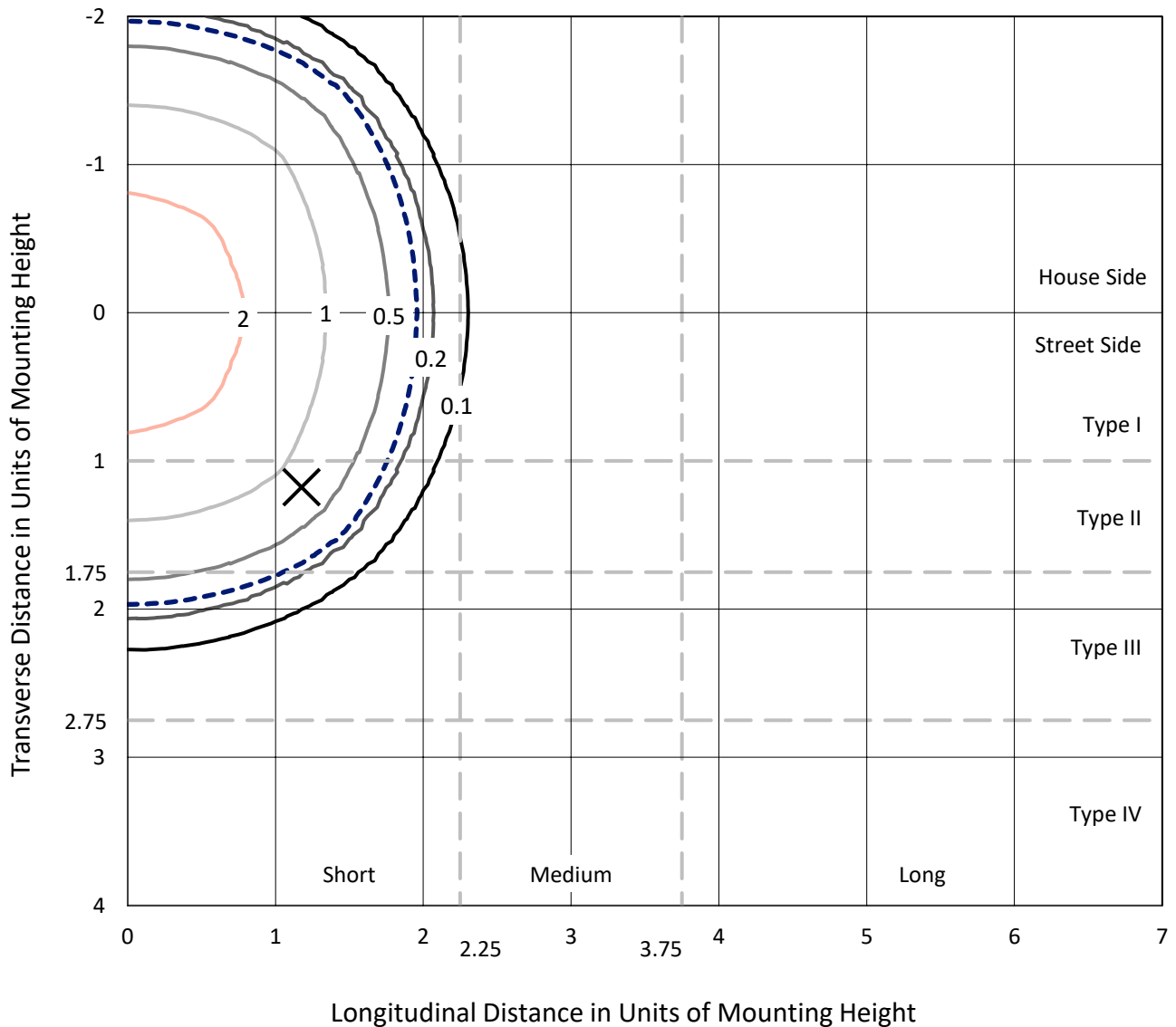
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

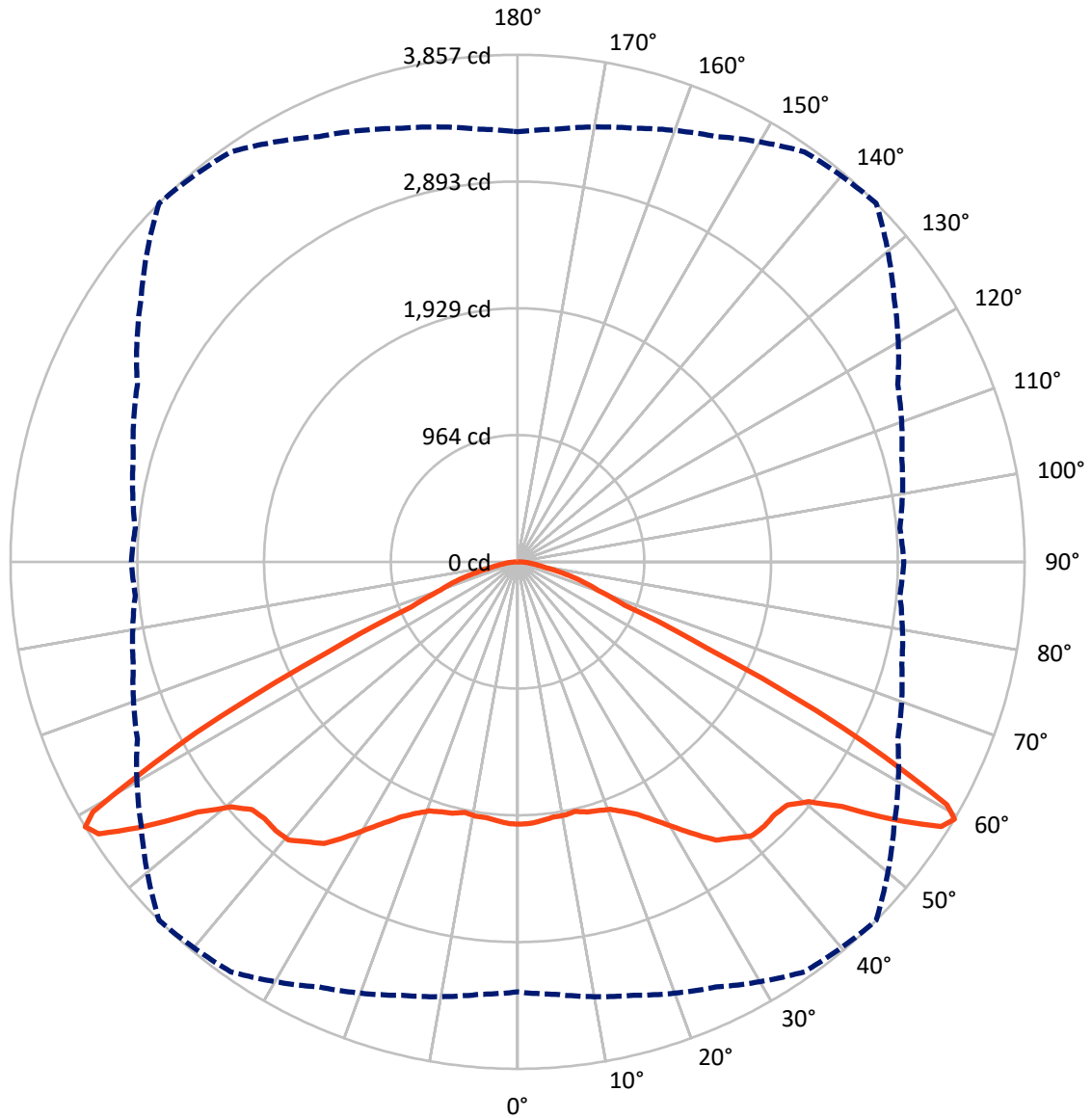
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 59-Deg Vertical

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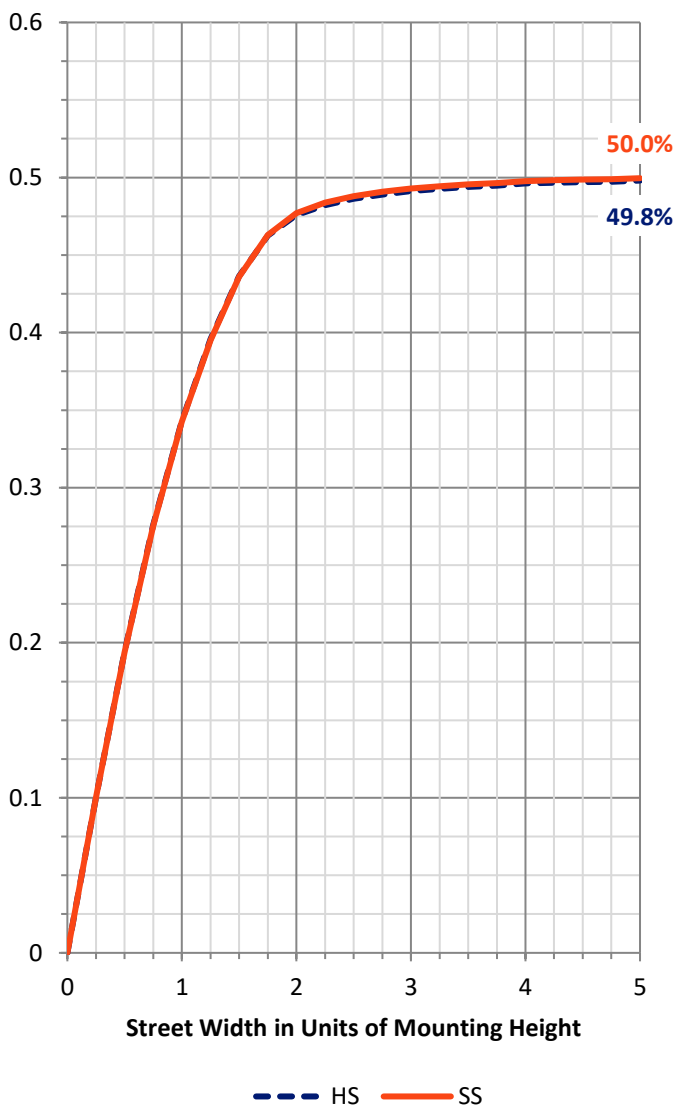
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5167.0   | 0.0    | 5167.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5167.0   | 0.0    | 5167.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 10334.0  | 0.0    | 10334.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 188.2   | 1.8       |
| 10°-20°   | 559.6   | 5.4       |
| 20°-30°   | 977.1   | 9.5       |
| 30°-40°   | 1560.5  | 15.1      |
| 40°-50°   | 2125.7  | 20.6      |
| 50°-60°   | 2874.5  | 27.8      |
| 60°-70°   | 1576.4  | 15.3      |
| 70°-80°   | 403.3   | 3.9       |
| 80°-90°   | 68.8    | 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°    | 10334.0 | 100.0     |
| 0°-180°   | 10334.0 | 100.0     |

**Coefficient of Utilization**



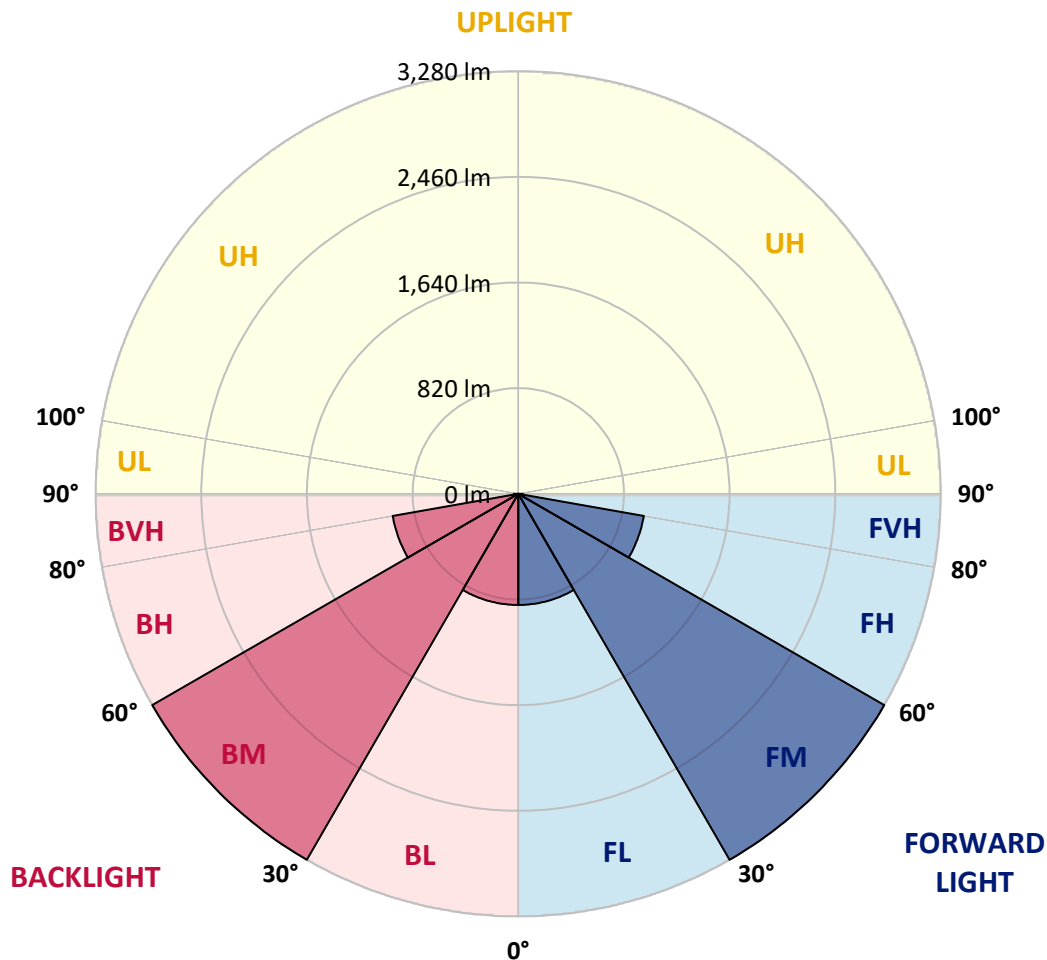
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 862.4  | 8.3       |                         |      |         |
| FM (30°-60°)   | 3280.4 | 31.7      |                         |      |         |
| FH (60°-80°)   | 989.8  | 9.6       |                         |      | G1/1800 |
| FVH (80°-90°)  | 34.4   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 862.4  | 8.3       | B2/1000                 |      |         |
| BM (30°-60°)   | 3280.4 | 31.7      | B3/5000                 |      |         |
| BH (60°-80°)   | 989.8  | 9.6       | B2/1000                 |      | G1/1800 |
| BVH (80°-90°)  | 34.4   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short





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CATALOG NUMBER: GALN-SA2D-835-U-5WQ-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1996.0 | 1996.0 | 1996.0 | 1996.0 | 1996.0 | 1996.0 | 1996.0 | 1996.0 | 1996.0 | 1996.0 | 1996.0 |
| 2.5°  | 1984.1 | 1998.7 | 1988.1 | 1997.4 | 1996.0 | 1992.0 | 1985.5 | 1981.5 | 1976.1 | 1984.1 | 1970.9 |
| 5°    | 1976.1 | 1988.1 | 2000.0 | 1984.1 | 1984.1 | 1976.1 | 1972.2 | 1964.2 | 1964.2 | 1962.9 | 1961.6 |
| 7.5°  | 1989.4 | 1977.5 | 1972.2 | 1974.9 | 1977.5 | 1960.2 | 1972.2 | 1956.3 | 1943.1 | 1952.3 | 1962.9 |
| 10°   | 1977.5 | 1982.8 | 1962.9 | 1972.2 | 1957.7 | 1960.2 | 1952.3 | 1962.9 | 1948.3 | 1948.3 | 1948.3 |
| 12.5° | 1989.4 | 1974.9 | 1981.5 | 1974.9 | 1970.9 | 1948.3 | 1959.0 | 1947.0 | 1945.7 | 1959.0 | 1947.0 |
| 15°   | 2013.2 | 1989.4 | 1984.1 | 1970.9 | 1974.9 | 1974.9 | 1964.2 | 1965.6 | 1951.0 | 1959.0 | 1961.6 |
| 17.5° | 2005.3 | 1992.0 | 1988.1 | 1972.2 | 1985.5 | 1989.4 | 1969.6 | 1956.3 | 1965.6 | 1964.2 | 1962.9 |
| 20°   | 2011.9 | 2017.2 | 2013.2 | 2015.9 | 2021.2 | 2010.6 | 1992.0 | 1973.6 | 1961.6 | 1978.8 | 1977.5 |
| 22.5° | 2054.4 | 2049.0 | 2046.4 | 2043.7 | 2053.0 | 2063.6 | 2038.5 | 2009.3 | 2009.3 | 2021.2 | 2026.5 |
| 25°   | 2088.7 | 2087.4 | 2086.1 | 2098.0 | 2129.8 | 2129.8 | 2098.0 | 2060.9 | 2051.7 | 2059.6 | 2053.0 |
| 27.5° | 2139.1 | 2153.6 | 2148.4 | 2169.5 | 2215.9 | 2226.5 | 2184.1 | 2140.4 | 2115.3 | 2106.0 | 2117.9 |
| 30°   | 2254.3 | 2237.1 | 2241.1 | 2263.6 | 2304.7 | 2339.1 | 2274.2 | 2227.9 | 2193.4 | 2192.1 | 2197.3 |
| 32.5° | 2331.1 | 2344.4 | 2356.3 | 2377.5 | 2442.4 | 2468.9 | 2390.7 | 2315.3 | 2294.0 | 2282.1 | 2286.1 |
| 35°   | 2484.8 | 2472.9 | 2470.2 | 2491.4 | 2556.3 | 2600.0 | 2502.0 | 2435.8 | 2408.0 | 2434.4 | 2434.4 |
| 37.5° | 2630.5 | 2597.4 | 2572.2 | 2600.0 | 2659.6 | 2664.9 | 2581.5 | 2545.7 | 2531.1 | 2561.6 | 2560.3 |
| 40°   | 2699.4 | 2696.7 | 2638.4 | 2654.3 | 2733.8 | 2741.8 | 2663.6 | 2621.2 | 2618.6 | 2658.3 | 2698.1 |
| 42.5° | 2770.9 | 2745.7 | 2687.4 | 2698.1 | 2747.1 | 2749.7 | 2675.5 | 2663.6 | 2692.7 | 2731.2 | 2733.8 |
| 45°   | 2782.8 | 2761.6 | 2724.5 | 2698.1 | 2733.8 | 2741.8 | 2698.1 | 2706.0 | 2708.6 | 2755.0 | 2755.0 |
| 47.5° | 2806.7 | 2804.0 | 2782.8 | 2763.0 | 2769.5 | 2763.0 | 2735.1 | 2747.1 | 2786.8 | 2809.3 | 2798.7 |
| 50°   | 2872.9 | 2845.0 | 2866.2 | 2849.0 | 2850.4 | 2868.9 | 2843.7 | 2855.7 | 2847.7 | 2827.8 | 2814.6 |
| 52.5° | 3018.5 | 3005.3 | 3023.9 | 3035.8 | 3049.0 | 3091.4 | 3062.3 | 2998.7 | 2939.1 | 2886.1 | 2884.8 |
| 55°   | 3231.8 | 3241.1 | 3276.9 | 3337.8 | 3389.5 | 3456.9 | 3316.6 | 3164.3 | 3068.9 | 2985.4 | 2990.7 |
| 57.5° | 3433.1 | 3426.5 | 3475.5 | 3614.6 | 3765.6 | 3800.1 | 3524.5 | 3307.3 | 3152.4 | 3099.3 | 3076.9 |
| 59°   | 3271.5 | 3303.3 | 3414.6 | 3569.5 | 3806.6 | 3857.0 | 3496.7 | 3190.7 | 3026.5 | 2919.3 | 2937.7 |
| 60°   | 3017.2 | 3029.2 | 3128.5 | 3344.4 | 3664.9 | 3751.0 | 3310.0 | 3010.6 | 2792.1 | 2729.9 | 2757.6 |
| 62.5° | 2132.5 | 2123.2 | 2194.7 | 2370.8 | 2658.3 | 2774.9 | 2461.0 | 2250.3 | 2112.6 | 2043.7 | 2059.6 |
| 65°   | 1133.8 | 1176.1 | 1205.3 | 1315.2 | 1467.6 | 1590.7 | 1460.9 | 1369.5 | 1292.7 | 1235.8 | 1234.5 |
| 67.5° | 765.5  | 760.3  | 766.9  | 792.1  | 843.7  | 878.1  | 875.5  | 829.1  | 822.5  | 811.9  | 823.9  |
| 70°   | 645.0  | 642.4  | 630.5  | 630.5  | 641.0  | 649.0  | 658.3  | 663.6  | 674.2  | 687.4  | 686.1  |
| 72.5° | 523.2  | 516.5  | 508.6  | 504.6  | 517.9  | 521.9  | 533.8  | 539.1  | 548.3  | 547.0  | 558.9  |
| 75°   | 345.7  | 345.7  | 354.9  | 365.6  | 369.6  | 377.5  | 378.8  | 394.7  | 394.7  | 397.4  | 386.7  |
| 77.5° | 193.4  | 188.1  | 194.7  | 205.3  | 214.5  | 229.1  | 243.7  | 255.6  | 262.2  | 259.6  | 259.6  |
| 80°   | 112.6  | 112.6  | 119.2  | 131.2  | 143.1  | 156.3  | 166.9  | 176.2  | 182.8  | 180.2  | 174.8  |
| 82.5° | 70.2   | 70.2   | 76.8   | 88.7   | 98.0   | 105.9  | 120.5  | 132.5  | 140.4  | 137.7  | 131.2  |
| 85°   | 35.8   | 35.8   | 43.7   | 51.7   | 63.6   | 68.9   | 67.6   | 62.2   | 60.9   | 54.3   | 54.3   |
| 87.5° | 9.2    | 9.2    | 13.2   | 14.6   | 11.9   | 13.2   | 13.2   | 13.2   | 13.2   | 13.2   | 14.6   |
| 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)