

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: P528561

Luminaire Tested: **GALN-SA3C-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528561  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-830-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11457 lumens  
Efficiency: N/A  
Efficacy: 71.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

Input Watts (W): 160  
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



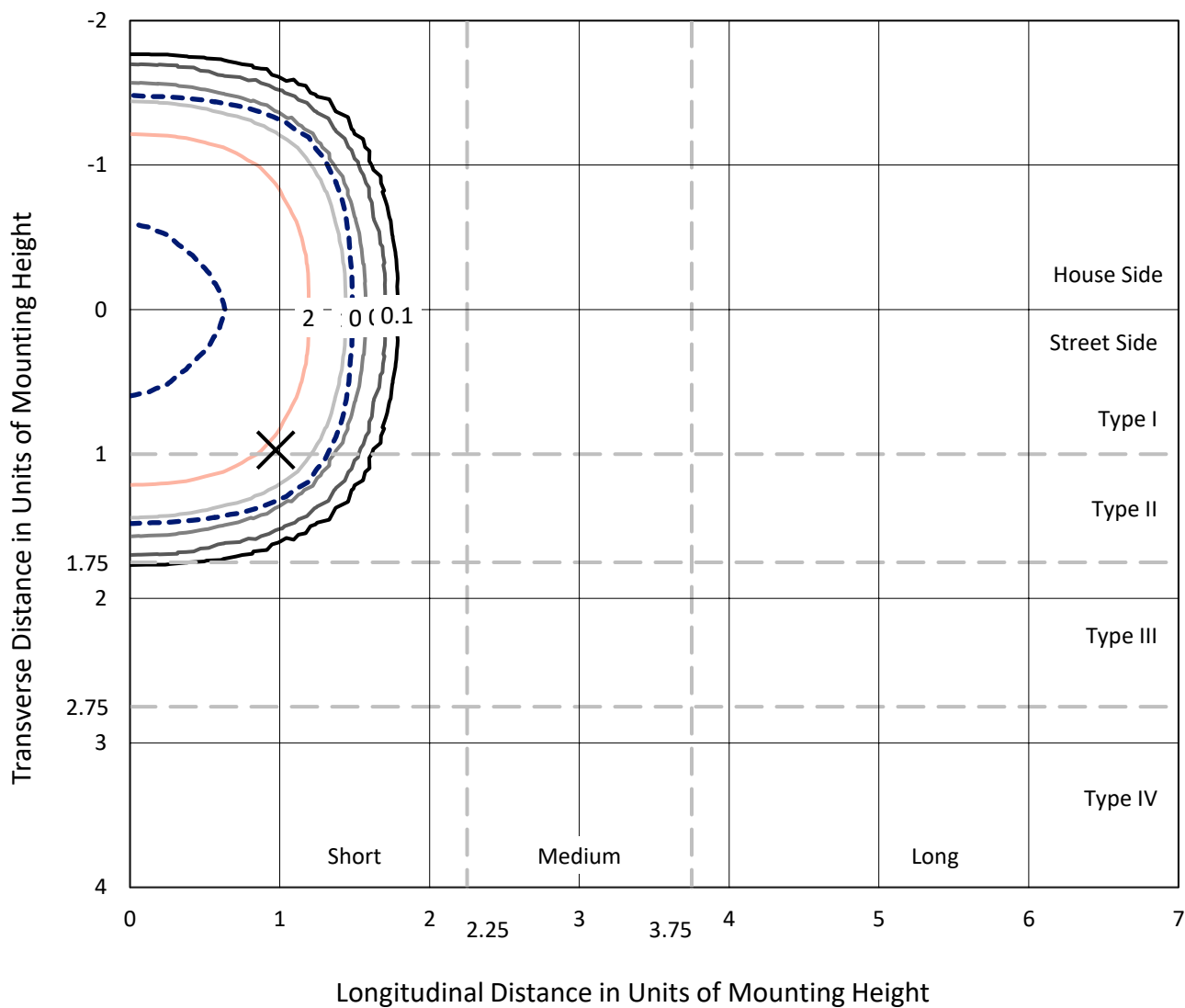
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

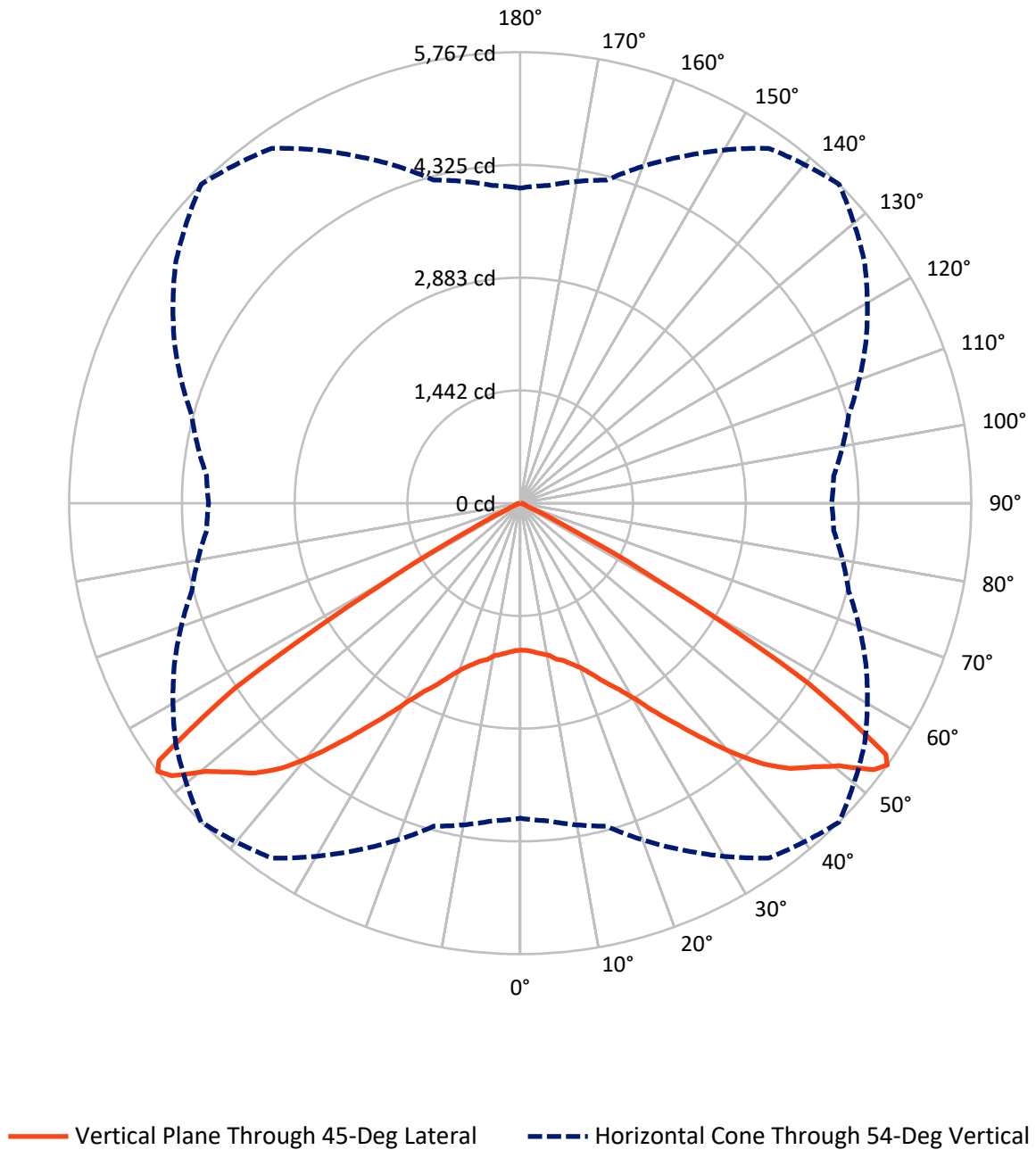
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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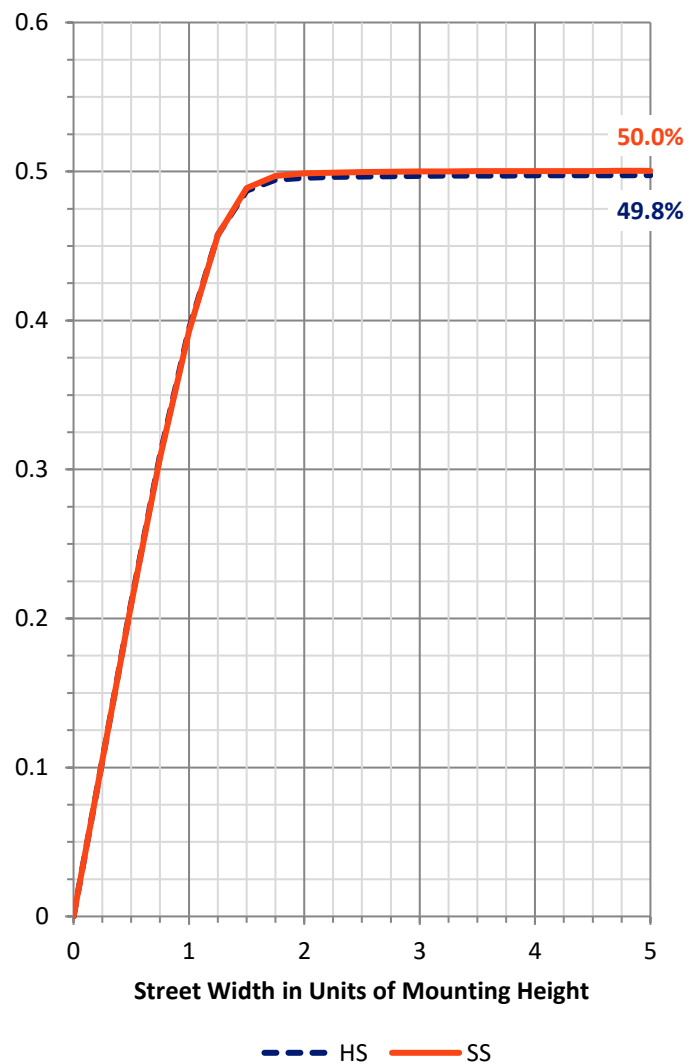
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5728.5   | 0.0    | 5728.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5728.5   | 0.0    | 5728.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 11457.0  | 0.0    | 11457.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 183.9   | 1.6       |
| 10°-20°   | 595.4   | 5.2       |
| 20°-30°   | 1167.0  | 10.2      |
| 30°-40°   | 2098.6  | 18.3      |
| 40°-50°   | 3592.3  | 31.4      |
| 50°-60°   | 3475.9  | 30.3      |
| 60°-70°   | 297.6   | 2.6       |
| 70°-80°   | 35.3    | 0.3       |
| 80°-90°   | 11.1    | 0.1       |
| 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°    | 11457.0 | 100.0     |
| 0°-180°   | 11457.0 | 100.0     |

**Coefficient of Utilization**



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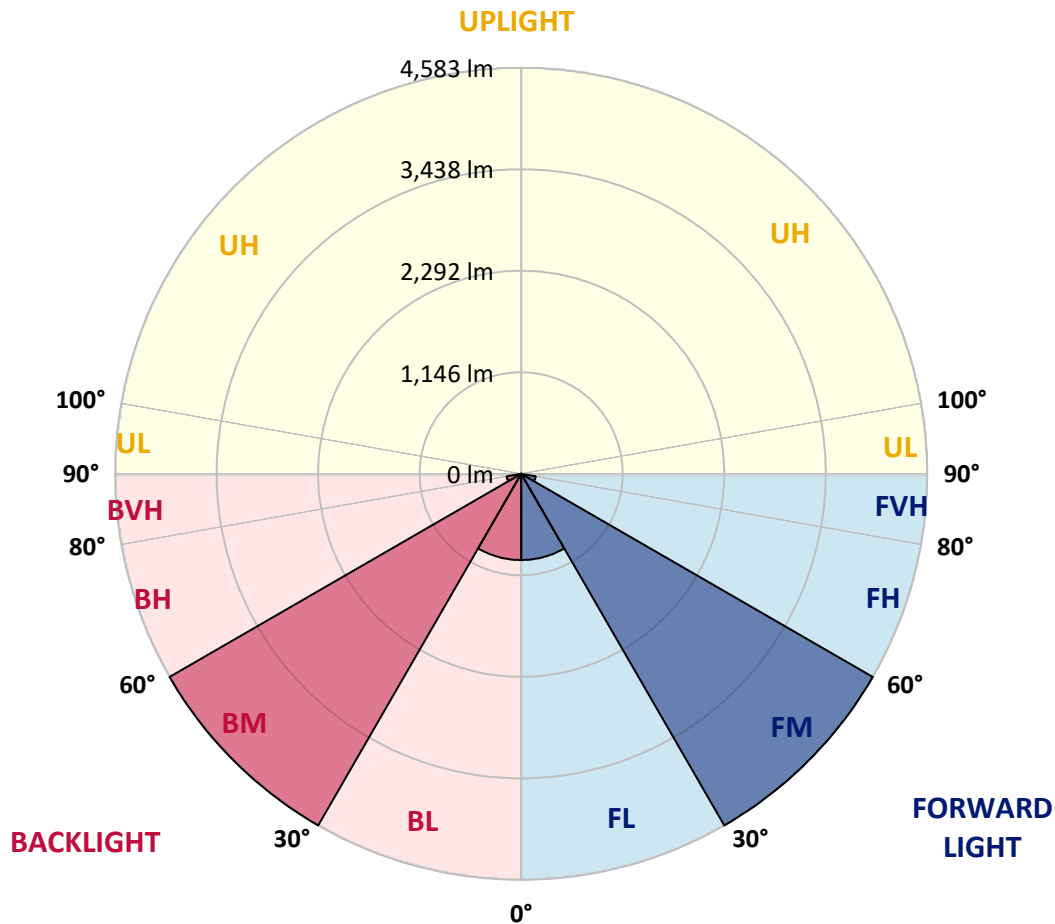
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 973.2  | 8.5       |                         |      |        |
| FM   | (30°-60°)   | 4583.4 | 40.0      |                         |      |        |
| FH   | (60°-80°)   | 166.4  | 1.5       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 5.5    | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 973.2  | 8.5       | B2/1000                 |      |        |
| BM   | (30°-60°)   | 4583.4 | 40.0      | B3/5000                 |      |        |
| BH   | (60°-80°)   | 166.4  | 1.5       | B1/500                  |      | G0/660 |
| BVH  | (80°-90°)   | 5.5    | 0.0       |                         |      | G0/10  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B3-U0-G0**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1878.6 | 1878.6 | 1878.6 | 1878.6 | 1878.6 | 1878.6 | 1878.6 | 1878.6 | 1878.6 | 1878.6 | 1878.6 |
| 2.5°  | 1887.7 | 1898.6 | 1891.3 | 1896.7 | 1896.7 | 1887.7 | 1893.1 | 1871.3 | 1885.9 | 1875.0 | 1876.8 |
| 5°    | 1916.7 | 1914.9 | 1914.9 | 1916.7 | 1909.4 | 1913.1 | 1905.8 | 1898.6 | 1893.1 | 1885.9 | 1907.6 |
| 7.5°  | 1953.0 | 1953.0 | 1940.3 | 1943.9 | 1940.3 | 1945.7 | 1931.2 | 1916.7 | 1911.3 | 1905.8 | 1902.2 |
| 10°   | 1987.5 | 1983.9 | 1978.4 | 1994.8 | 1982.0 | 1974.8 | 1967.5 | 1958.5 | 1938.5 | 1931.2 | 1924.0 |
| 12.5° | 2038.3 | 2036.5 | 2029.2 | 2045.6 | 2038.3 | 2045.6 | 2018.4 | 1994.8 | 1991.1 | 1967.5 | 1980.2 |
| 15°   | 2098.2 | 2114.5 | 2101.8 | 2101.8 | 2098.2 | 2089.1 | 2078.2 | 2067.4 | 2034.7 | 2025.6 | 2027.4 |
| 17.5° | 2176.3 | 2170.8 | 2172.6 | 2172.6 | 2190.8 | 2167.2 | 2145.4 | 2118.2 | 2101.8 | 2096.4 | 2078.2 |
| 20°   | 2250.7 | 2257.9 | 2256.1 | 2268.8 | 2279.7 | 2254.3 | 2230.7 | 2227.1 | 2181.7 | 2189.0 | 2163.6 |
| 22.5° | 2381.4 | 2375.9 | 2385.0 | 2394.1 | 2386.8 | 2383.2 | 2361.4 | 2334.2 | 2294.2 | 2276.1 | 2272.5 |
| 25°   | 2519.3 | 2510.2 | 2493.9 | 2515.7 | 2526.6 | 2542.9 | 2501.2 | 2486.6 | 2424.9 | 2397.7 | 2399.5 |
| 27.5° | 2637.3 | 2650.0 | 2668.1 | 2677.2 | 2704.4 | 2699.0 | 2670.0 | 2622.8 | 2575.6 | 2544.7 | 2524.8 |
| 30°   | 2798.8 | 2806.1 | 2836.9 | 2849.7 | 2896.8 | 2909.5 | 2864.2 | 2809.7 | 2726.2 | 2686.3 | 2662.7 |
| 32.5° | 2947.7 | 2998.5 | 2996.7 | 3060.2 | 3136.4 | 3189.1 | 3107.4 | 3023.9 | 2940.4 | 2893.2 | 2851.5 |
| 35°   | 3189.1 | 3180.0 | 3232.6 | 3299.8 | 3423.2 | 3483.1 | 3394.2 | 3298.0 | 3170.9 | 3094.7 | 3062.0 |
| 37.5° | 3414.1 | 3417.8 | 3488.6 | 3595.6 | 3737.2 | 3829.8 | 3751.7 | 3593.8 | 3463.1 | 3365.1 | 3319.8 |
| 40°   | 3740.8 | 3748.1 | 3820.7 | 3942.3 | 4102.0 | 4201.9 | 4111.1 | 3951.4 | 3777.1 | 3700.9 | 3700.9 |
| 42.5° | 4123.8 | 4154.7 | 4201.9 | 4307.1 | 4450.5 | 4561.3 | 4479.6 | 4354.3 | 4178.3 | 4080.3 | 4094.8 |
| 45°   | 4517.7 | 4532.2 | 4563.1 | 4719.2 | 4786.3 | 4840.8 | 4764.5 | 4706.5 | 4588.5 | 4468.7 | 4448.7 |
| 47.5° | 4886.2 | 4891.6 | 4982.4 | 5031.4 | 5084.0 | 5038.6 | 5087.6 | 5011.4 | 4878.9 | 4762.7 | 4739.1 |
| 50°   | 5049.5 | 5040.4 | 5169.3 | 5318.1 | 5358.1 | 5278.2 | 5236.5 | 5185.6 | 4984.2 | 4844.4 | 4782.7 |
| 52.5° | 4574.0 | 4626.6 | 4866.2 | 5280.0 | 5592.2 | 5659.4 | 5416.2 | 5182.0 | 4806.3 | 4534.0 | 4492.3 |
| 54°   | 4029.4 | 4078.4 | 4276.3 | 4889.8 | 5539.6 | 5766.5 | 5374.4 | 4877.1 | 4347.1 | 4024.0 | 3982.3 |
| 55°   | 3490.4 | 3435.9 | 3795.3 | 4421.5 | 5292.7 | 5672.1 | 5209.2 | 4483.2 | 3877.0 | 3581.1 | 3523.0 |
| 57.5° | 1889.5 | 1898.6 | 2201.7 | 2793.4 | 3719.1 | 4348.9 | 3840.7 | 3033.0 | 2290.6 | 1958.5 | 1929.4 |
| 60°   | 599.0  | 613.5  | 746.0  | 1129.0 | 1776.9 | 2121.8 | 1818.7 | 1217.9 | 842.2  | 675.2  | 648.0  |
| 62.5° | 187.0  | 194.2  | 212.4  | 315.8  | 486.4  | 695.2  | 544.5  | 326.7  | 243.2  | 223.3  | 226.9  |
| 65°   | 114.3  | 114.3  | 116.2  | 123.4  | 145.2  | 168.8  | 163.4  | 143.4  | 137.9  | 134.3  | 132.5  |
| 67.5° | 74.4   | 72.6   | 76.2   | 81.7   | 85.3   | 87.1   | 92.6   | 98.0   | 96.2   | 92.6   | 92.6   |
| 70°   | 45.4   | 43.6   | 47.2   | 54.5   | 56.3   | 59.9   | 65.3   | 72.6   | 70.8   | 67.2   | 69.0   |
| 72.5° | 25.4   | 25.4   | 27.2   | 32.7   | 38.1   | 41.7   | 47.2   | 52.6   | 54.5   | 52.6   | 52.6   |
| 75°   | 9.1    | 10.9   | 14.5   | 20.0   | 23.6   | 29.0   | 34.5   | 39.9   | 45.4   | 41.7   | 39.9   |
| 77.5° | 3.6    | 3.6    | 7.3    | 12.7   | 18.2   | 23.6   | 32.7   | 38.1   | 41.7   | 38.1   | 34.5   |
| 80°   | 1.8    | 1.8    | 5.4    | 10.9   | 16.3   | 21.8   | 27.2   | 32.7   | 34.5   | 30.9   | 27.2   |
| 82.5° | 1.8    | 1.8    | 5.4    | 10.9   | 16.3   | 20.0   | 29.0   | 32.7   | 36.3   | 32.7   | 27.2   |
| 85°   | 0.0    | 1.8    | 5.4    | 10.9   | 14.5   | 16.3   | 16.3   | 10.9   | 9.1    | 5.4    | 5.4    |
| 87.5° | 0.0    | 0.0    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)