

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: P451772

Luminaire Tested: **GALN-SA2C-830-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451772  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2C-830-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11215 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 108  
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



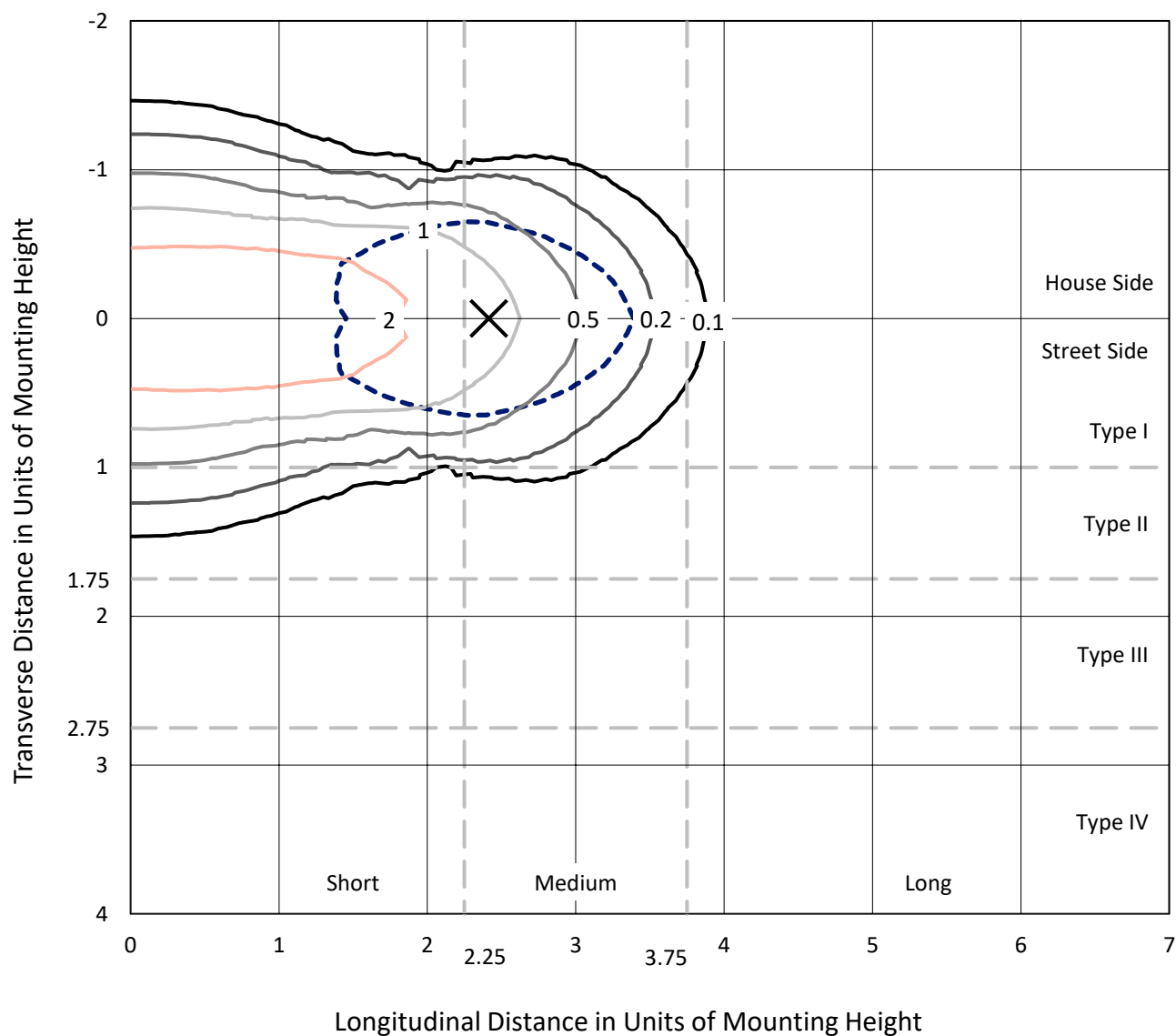
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



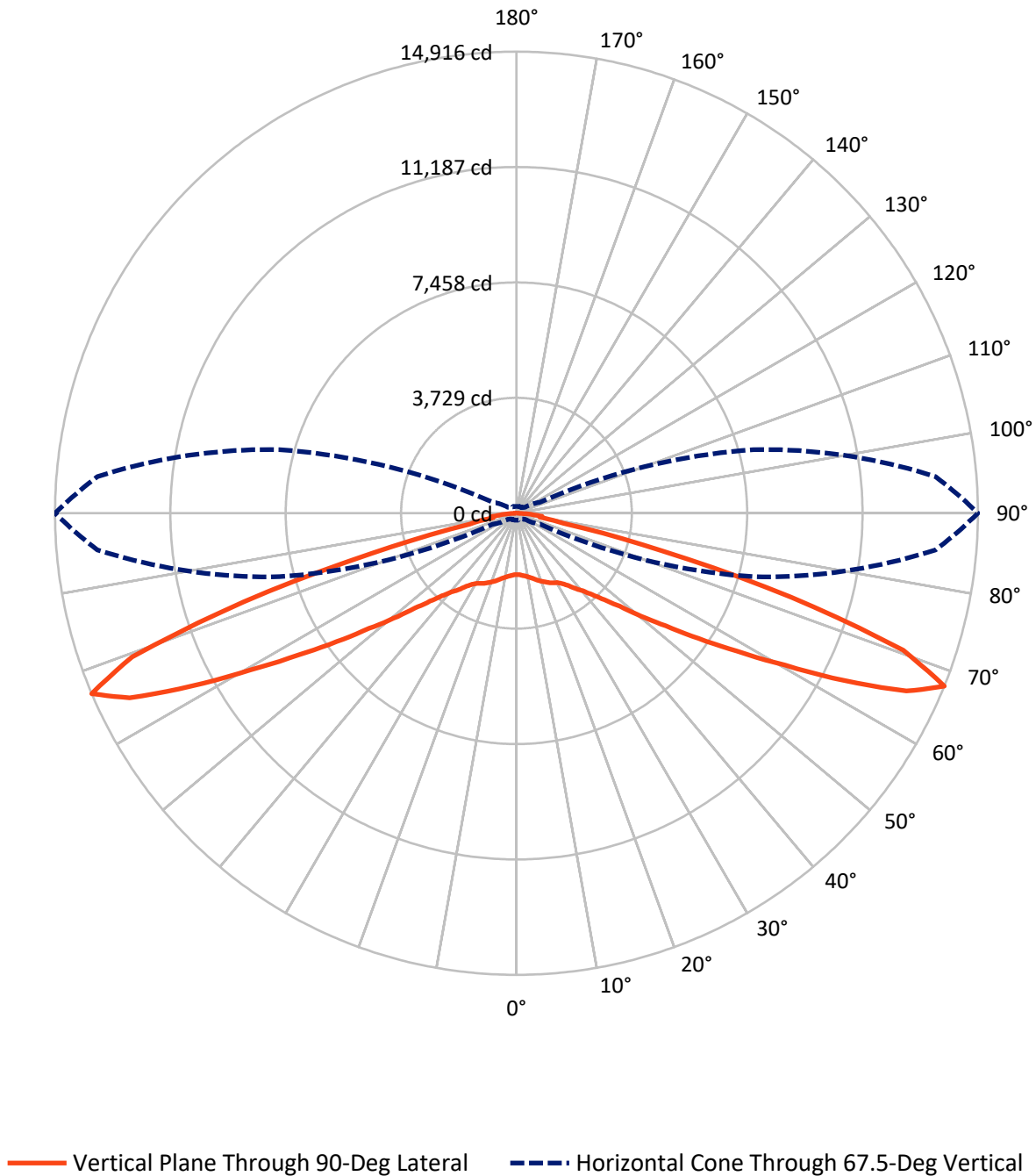
Based on 25 foot mounting height. Maximum calculated value = 3.3 fc

Type I - Short - N/A

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## Luminous Intensity Polar Plot



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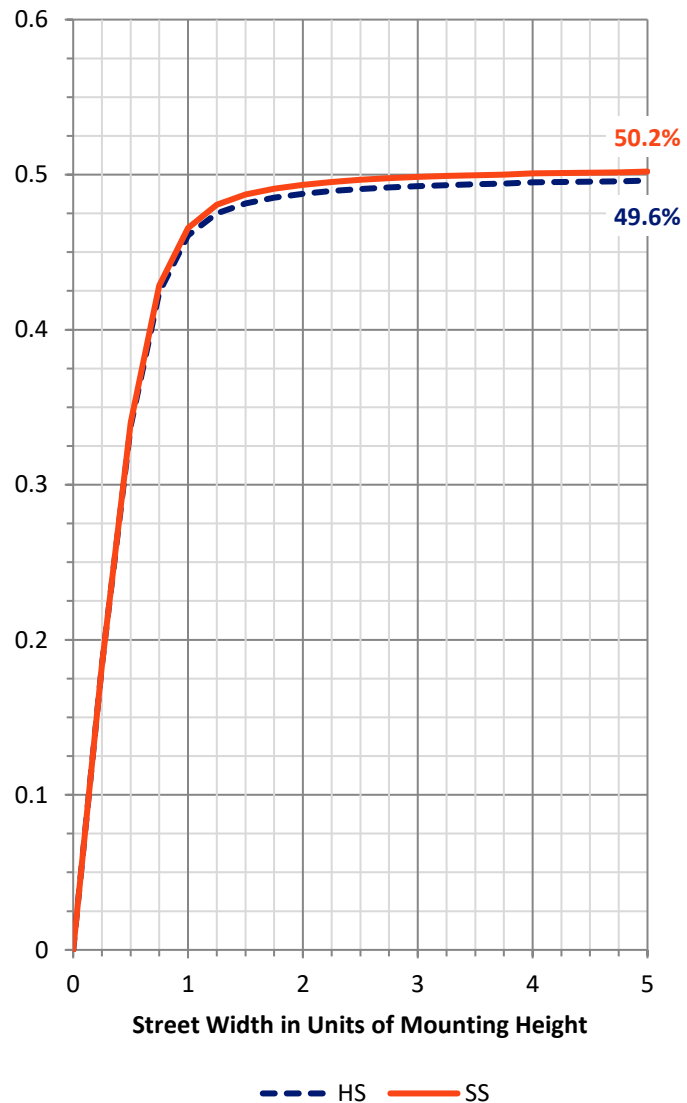
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5607.5   | 0.0    | 5607.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5607.5   | 0.0    | 5607.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 11215.0  | 0.0    | 11215.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 197.9   | 1.8       |
| 10°-20°   | 633.3   | 5.6       |
| 20°-30°   | 1060.0  | 9.5       |
| 30°-40°   | 1436.0  | 12.8      |
| 40°-50°   | 1819.0  | 16.2      |
| 50°-60°   | 2272.4  | 20.3      |
| 60°-70°   | 2671.1  | 23.8      |
| 70°-80°   | 1021.8  | 9.1       |
| 80°-90°   | 103.5   | 0.9       |
| 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°    | 11215.0 | 100.0     |
| 0°-180°   | 11215.0 | 100.0     |

**Coefficient of Utilization**



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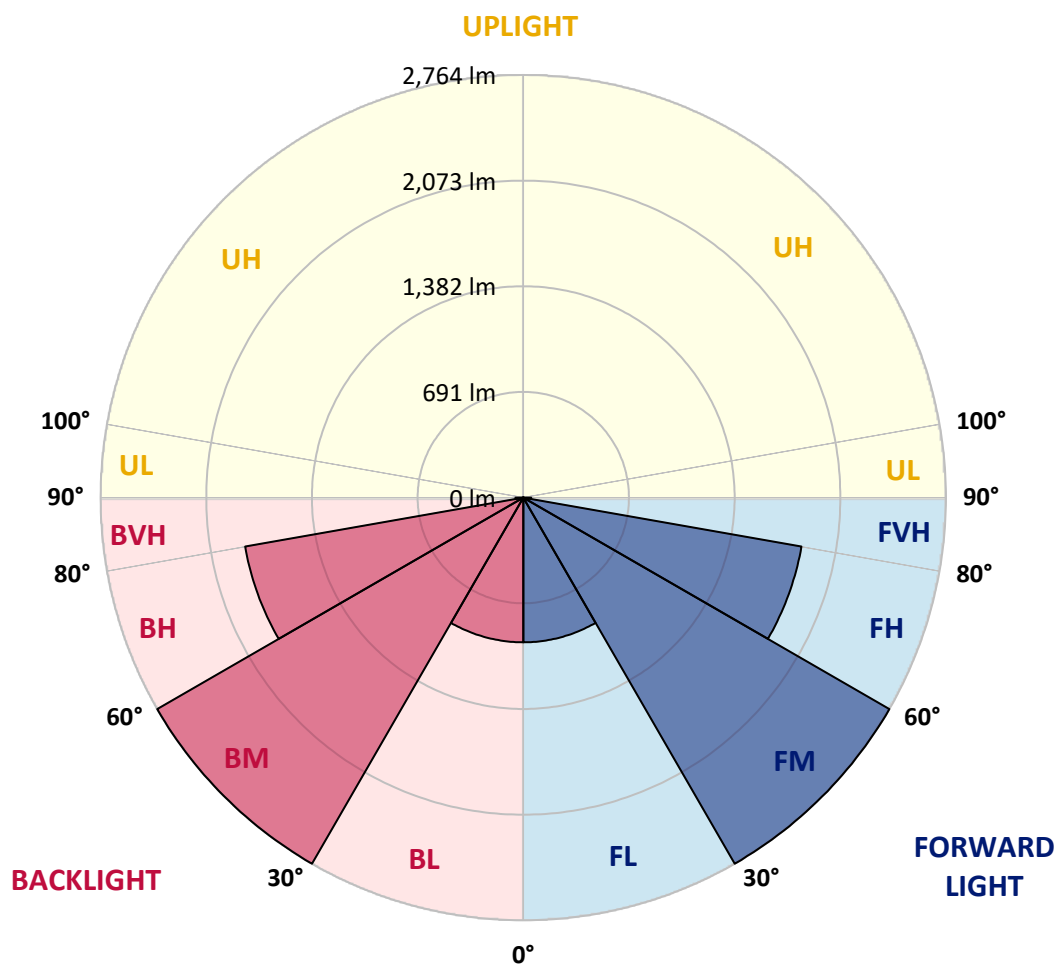
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 945.6  | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 2763.7 | 24.6      |                         |      |         |
| FH   | (60°-80°)   | 1846.4 | 16.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 51.8   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 945.6  | 8.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2763.7 | 24.6      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1846.4 | 16.5      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 51.8   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°     | 90°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0°    | 1985.4 | 1985.4 | 1985.4 | 1985.4 | 1985.4 | 1985.4 | 1985.4 | 1985.4 | 1985.4 | 1985.4  | 1985.4  |
| 2.5°  | 2010.9 | 2009.6 | 2010.2 | 2009.6 | 2011.5 | 2010.2 | 2002.8 | 1996.6 | 1991.6 | 1992.2  | 1990.4  |
| 5°    | 2053.7 | 2054.3 | 2055.0 | 2051.9 | 2056.2 | 2053.7 | 2041.9 | 2032.0 | 2022.0 | 2018.3  | 2017.1  |
| 7.5°  | 2089.1 | 2092.2 | 2094.1 | 2097.2 | 2104.6 | 2104.6 | 2098.4 | 2084.1 | 2062.4 | 2050.0  | 2049.4  |
| 10°   | 2124.5 | 2127.0 | 2132.6 | 2142.5 | 2154.9 | 2166.7 | 2164.3 | 2145.0 | 2117.1 | 2095.9  | 2091.0  |
| 12.5° | 2136.9 | 2140.0 | 2158.7 | 2187.2 | 2215.2 | 2238.2 | 2238.2 | 2222.6 | 2186.6 | 2154.3  | 2145.0  |
| 15°   | 2093.5 | 2099.1 | 2132.6 | 2193.4 | 2266.7 | 2317.0 | 2328.2 | 2306.5 | 2268.0 | 2218.3  | 2207.1  |
| 17.5° | 2007.1 | 2020.8 | 2069.9 | 2159.9 | 2281.6 | 2386.0 | 2418.3 | 2407.7 | 2358.0 | 2294.7  | 2281.6  |
| 20°   | 1914.6 | 1929.5 | 1981.7 | 2100.9 | 2269.2 | 2426.3 | 2520.1 | 2522.6 | 2461.1 | 2369.2  | 2349.9  |
| 22.5° | 1812.8 | 1823.9 | 1891.0 | 2030.7 | 2231.9 | 2435.6 | 2607.7 | 2650.5 | 2567.3 | 2443.7  | 2416.4  |
| 25°   | 1698.5 | 1710.9 | 1781.1 | 1932.0 | 2161.8 | 2425.1 | 2687.8 | 2782.2 | 2678.5 | 2523.2  | 2488.4  |
| 27.5° | 1589.2 | 1594.2 | 1669.3 | 1822.7 | 2069.2 | 2397.8 | 2746.8 | 2903.3 | 2801.4 | 2589.0  | 2544.9  |
| 30°   | 1484.2 | 1496.0 | 1562.5 | 1714.0 | 1963.0 | 2344.4 | 2797.7 | 3041.1 | 2933.7 | 2658.0  | 2601.5  |
| 32.5° | 1373.1 | 1387.4 | 1459.4 | 1612.8 | 1856.9 | 2264.2 | 2828.8 | 3192.0 | 3118.1 | 2769.8  | 2709.5  |
| 35°   | 1266.3 | 1275.6 | 1348.2 | 1497.3 | 1753.1 | 2171.1 | 2834.3 | 3362.2 | 3356.0 | 2939.3  | 2859.2  |
| 37.5° | 1157.0 | 1170.6 | 1243.9 | 1386.7 | 1643.2 | 2072.3 | 2806.4 | 3542.9 | 3642.9 | 3174.7  | 3088.3  |
| 40°   | 1052.0 | 1063.8 | 1135.8 | 1279.9 | 1518.4 | 1951.9 | 2739.9 | 3708.1 | 3977.6 | 3416.9  | 3294.5  |
| 42.5° | 937.7  | 940.8  | 1019.7 | 1166.3 | 1396.1 | 1812.1 | 2644.3 | 3855.3 | 4350.9 | 3741.7  | 3589.5  |
| 45°   | 807.9  | 816.0  | 889.3  | 1033.4 | 1255.7 | 1655.6 | 2514.5 | 3977.0 | 4824.1 | 4191.9  | 3984.5  |
| 47.5° | 678.2  | 685.0  | 752.1  | 894.3  | 1102.3 | 1476.2 | 2314.5 | 4083.8 | 5309.7 | 4763.9  | 4491.8  |
| 50°   | 551.5  | 555.2  | 609.8  | 735.9  | 929.7  | 1287.4 | 2066.8 | 4118.0 | 5858.7 | 5573.7  | 5226.5  |
| 52.5° | 436.0  | 441.5  | 483.2  | 581.9  | 745.2  | 1064.4 | 1799.1 | 4033.5 | 6499.6 | 6533.8  | 6044.4  |
| 55°   | 353.4  | 355.2  | 386.3  | 458.9  | 582.5  | 830.9  | 1476.2 | 3798.2 | 7188.9 | 7764.0  | 7139.9  |
| 57.5° | 304.3  | 305.5  | 322.9  | 363.3  | 448.4  | 626.6  | 1145.2 | 3352.9 | 7808.1 | 9205.4  | 8403.0  |
| 60°   | 276.4  | 277.0  | 286.9  | 310.5  | 355.2  | 480.7  | 820.4  | 2724.4 | 8419.2 | 10809.5 | 9973.0  |
| 62.5° | 259.0  | 259.0  | 265.8  | 278.8  | 300.6  | 368.9  | 594.3  | 1965.5 | 8837.8 | 12437.2 | 11908.1 |
| 65°   | 242.2  | 242.2  | 247.2  | 256.5  | 268.3  | 301.8  | 439.1  | 1281.8 | 8827.2 | 13622.7 | 13854.4 |
| 67.5° | 222.9  | 222.9  | 226.7  | 236.0  | 242.8  | 259.6  | 339.1  | 839.6  | 7929.2 | 13596.6 | 14916.3 |
| 70°   | 200.0  | 200.0  | 204.9  | 213.0  | 218.6  | 229.2  | 267.7  | 574.4  | 5825.2 | 11609.4 | 13265.6 |
| 72.5° | 177.0  | 177.6  | 180.7  | 188.8  | 193.1  | 199.3  | 222.3  | 402.4  | 3573.4 | 7905.0  | 9275.6  |
| 75°   | 151.5  | 152.8  | 155.9  | 163.9  | 167.7  | 170.2  | 187.5  | 286.9  | 1807.8 | 4262.1  | 4852.7  |
| 77.5° | 122.3  | 124.8  | 126.7  | 135.4  | 137.9  | 141.6  | 154.6  | 207.4  | 793.7  | 1531.4  | 1545.1  |
| 80°   | 89.4   | 92.5   | 98.1   | 106.2  | 108.1  | 110.5  | 118.0  | 147.2  | 359.6  | 699.3   | 759.5   |
| 82.5° | 65.8   | 70.2   | 63.3   | 73.9   | 73.9   | 70.8   | 83.2   | 98.7   | 165.2  | 692.4   | 828.4   |
| 85°   | 36.0   | 36.6   | 32.9   | 37.9   | 40.4   | 39.7   | 44.1   | 48.4   | 80.1   | 462.0   | 476.3   |
| 87.5° | 8.7    | 9.3    | 9.9    | 11.8   | 14.3   | 14.3   | 15.5   | 13.7   | 26.1   | 149.7   | 85.7    |
| 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)