

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: STREETWORKS

Report Number: P317037

Luminaire Tested: **GAN-SA3B-727-U-RW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317037  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3B-727-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14915 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 124  
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

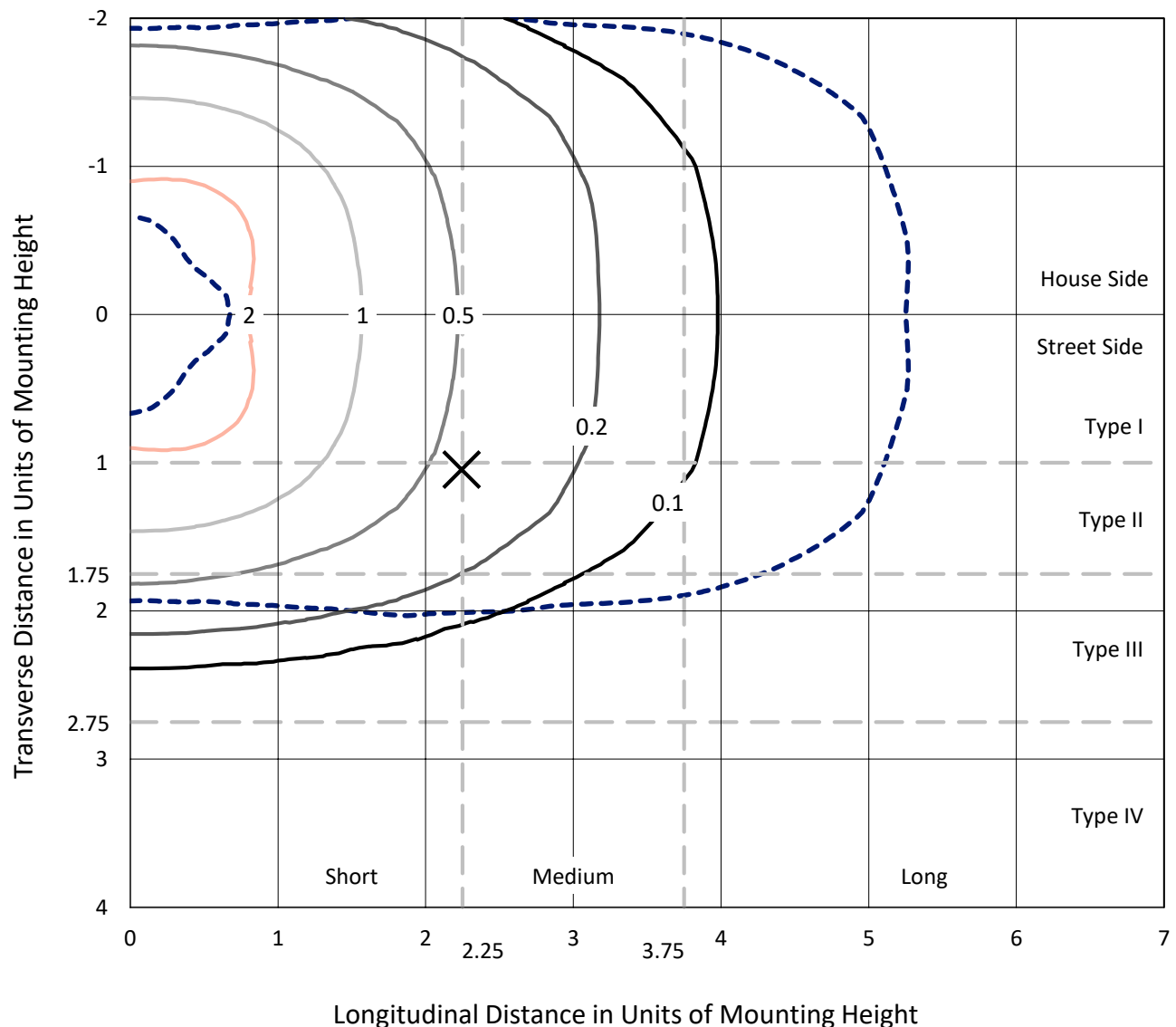


REPORT NUMBER: P317037

CATALOG NUMBER: GAN-SA3B-727-U-RW

## Iso-Footcandle Lines of Horizontal Illumination

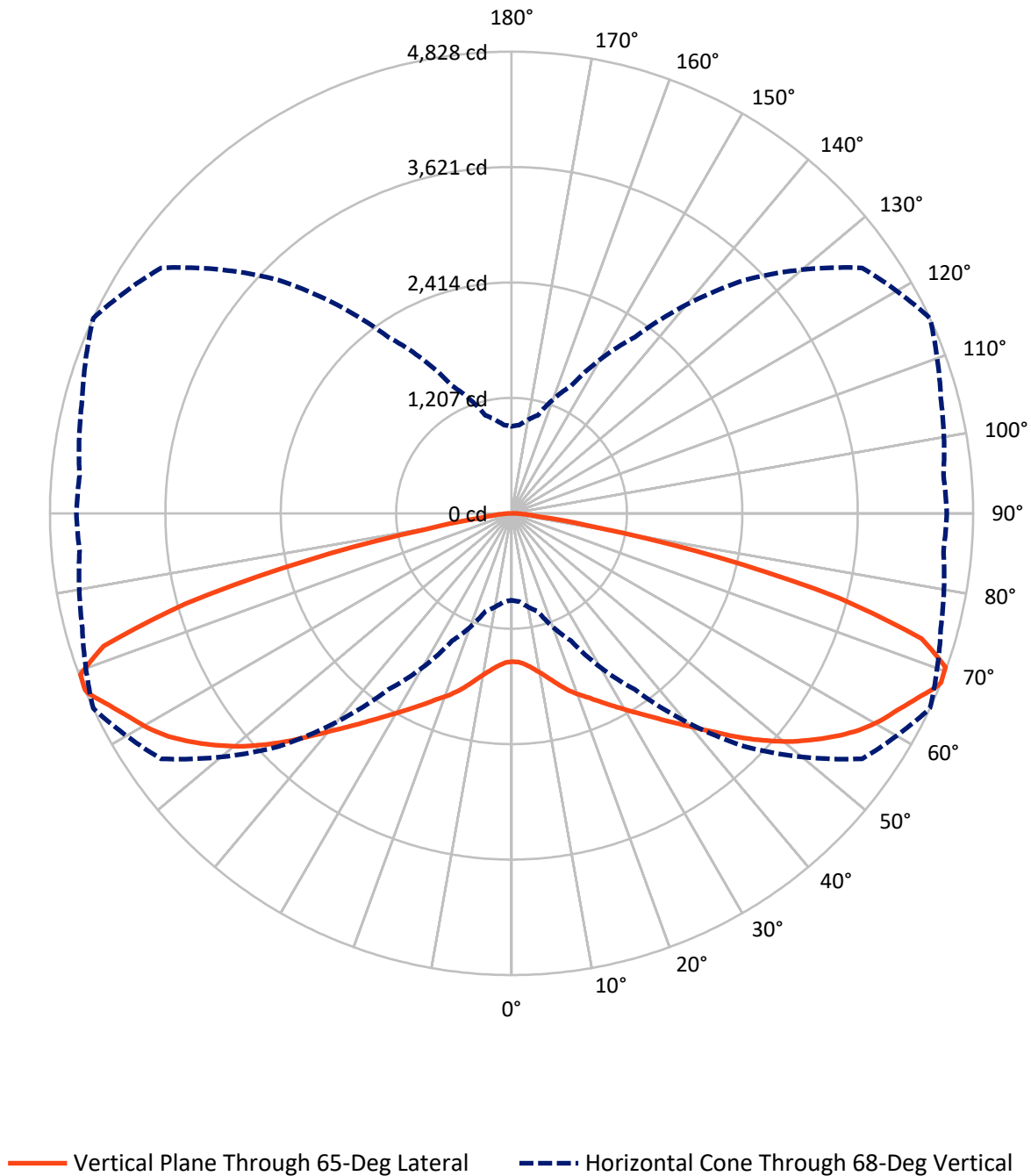
× Max cd  
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type III - 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    | 7457.5   | 0.0    | 7457.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7457.5   | 0.0    | 7457.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 14915.0  | 0.0    | 14915.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 151.8   | 1.0       |
| 10°-20°   | 508.4   | 3.4       |
| 20°-30°   | 991.3   | 6.6       |
| 30°-40°   | 1665.3  | 11.2      |
| 40°-50°   | 2623.8  | 17.6      |
| 50°-60°   | 3508.9  | 23.5      |
| 60°-70°   | 3411.1  | 22.9      |
| 70°-80°   | 1864.7  | 12.5      |
| 80°-90°   | 189.6   | 1.3       |
| 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°    | 14915.0 | 100.0     |
| 0°-180°   | 14915.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P317037

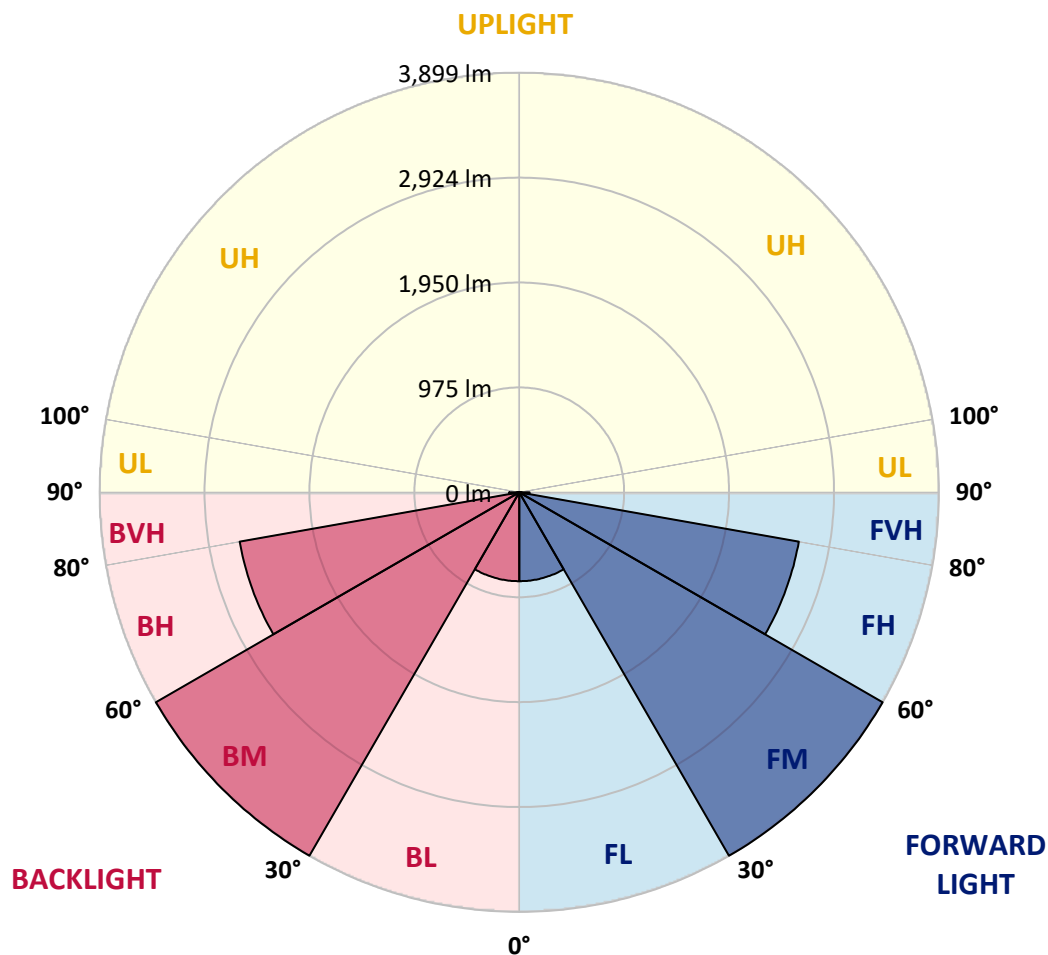
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 825.7  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 3899.0 | 26.1      |                         |      |         |
| FH   | (60°-80°)   | 2637.9 | 17.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 94.8   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 825.7  | 5.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3899.0 | 26.1      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2637.9 | 17.7      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 94.8   | 0.6       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1550.8 | 1550.8 | 1550.8 | 1550.8 | 1550.8 | 1550.8 | 1550.8 | 1550.8 | 1550.8 | 1550.8 | 1550.8 |
| 2.5°  | 1539.8 | 1540.3 | 1542.8 | 1545.8 | 1548.3 | 1554.8 | 1556.3 | 1558.8 | 1559.8 | 1562.3 | 1562.3 |
| 5°    | 1526.3 | 1527.3 | 1533.3 | 1541.3 | 1550.3 | 1566.3 | 1577.8 | 1590.8 | 1597.3 | 1604.3 | 1603.8 |
| 7.5°  | 1524.8 | 1527.3 | 1535.8 | 1548.8 | 1563.8 | 1590.3 | 1614.3 | 1640.3 | 1657.8 | 1673.8 | 1672.8 |
| 10°   | 1540.3 | 1544.3 | 1556.3 | 1575.8 | 1598.3 | 1631.3 | 1666.8 | 1701.8 | 1732.3 | 1756.9 | 1757.9 |
| 12.5° | 1563.8 | 1568.8 | 1587.8 | 1617.3 | 1651.3 | 1693.8 | 1735.8 | 1775.4 | 1817.4 | 1853.9 | 1856.9 |
| 15°   | 1594.8 | 1601.3 | 1629.8 | 1673.8 | 1725.8 | 1776.4 | 1821.4 | 1861.9 | 1910.4 | 1960.9 | 1965.9 |
| 17.5° | 1640.8 | 1649.8 | 1687.3 | 1746.8 | 1815.4 | 1870.9 | 1917.9 | 1948.4 | 1988.9 | 2040.9 | 2050.4 |
| 20°   | 1710.8 | 1722.3 | 1769.9 | 1840.9 | 1924.4 | 1982.4 | 2018.4 | 2024.9 | 2044.9 | 2091.4 | 2102.4 |
| 22.5° | 1801.9 | 1811.9 | 1864.9 | 1949.4 | 2042.9 | 2105.9 | 2124.9 | 2098.9 | 2096.9 | 2134.4 | 2144.9 |
| 25°   | 1903.4 | 1912.4 | 1973.9 | 2068.9 | 2169.4 | 2238.9 | 2238.4 | 2187.9 | 2152.9 | 2181.9 | 2192.9 |
| 27.5° | 2017.4 | 2031.4 | 2090.4 | 2190.4 | 2298.0 | 2366.5 | 2362.5 | 2284.5 | 2217.9 | 2225.4 | 2234.9 |
| 30°   | 2148.4 | 2163.9 | 2221.4 | 2323.0 | 2430.5 | 2497.5 | 2492.5 | 2389.5 | 2289.5 | 2269.5 | 2276.5 |
| 32.5° | 2311.0 | 2329.5 | 2384.0 | 2484.0 | 2579.0 | 2639.5 | 2625.0 | 2503.5 | 2375.5 | 2332.0 | 2338.5 |
| 35°   | 2506.5 | 2517.5 | 2575.0 | 2673.5 | 2750.5 | 2792.1 | 2761.6 | 2635.5 | 2484.5 | 2432.0 | 2432.0 |
| 37.5° | 2704.5 | 2713.0 | 2777.6 | 2873.1 | 2947.6 | 2969.6 | 2910.1 | 2780.1 | 2627.0 | 2552.5 | 2554.0 |
| 40°   | 2894.6 | 2917.6 | 2990.1 | 3088.1 | 3161.6 | 3167.6 | 3088.6 | 2945.1 | 2785.6 | 2708.5 | 2717.5 |
| 42.5° | 3093.1 | 3115.6 | 3202.1 | 3313.2 | 3378.2 | 3388.2 | 3295.7 | 3130.1 | 2964.6 | 2902.1 | 2912.1 |
| 45°   | 3270.2 | 3288.2 | 3388.2 | 3517.2 | 3598.2 | 3624.2 | 3514.7 | 3342.2 | 3158.1 | 3097.1 | 3099.6 |
| 47.5° | 3393.7 | 3417.2 | 3527.2 | 3679.2 | 3797.3 | 3837.3 | 3729.7 | 3548.7 | 3348.7 | 3274.7 | 3281.2 |
| 50°   | 3505.7 | 3518.2 | 3629.7 | 3795.8 | 3945.8 | 4028.3 | 3936.3 | 3752.7 | 3541.2 | 3462.7 | 3469.7 |
| 52.5° | 3568.2 | 3584.2 | 3692.2 | 3865.3 | 4042.8 | 4175.8 | 4119.8 | 3936.3 | 3727.2 | 3650.7 | 3659.2 |
| 55°   | 3524.7 | 3536.7 | 3666.2 | 3880.8 | 4102.8 | 4266.9 | 4275.4 | 4115.8 | 3909.8 | 3842.8 | 3866.8 |
| 57.5° | 3326.7 | 3341.7 | 3499.7 | 3780.8 | 4110.3 | 4328.4 | 4392.4 | 4282.4 | 4080.3 | 4025.8 | 4039.8 |
| 60°   | 3017.1 | 3026.6 | 3195.1 | 3511.2 | 3964.3 | 4353.9 | 4466.9 | 4418.4 | 4247.3 | 4192.8 | 4211.8 |
| 62.5° | 2465.5 | 2479.5 | 2681.0 | 3104.6 | 3655.7 | 4278.4 | 4538.9 | 4530.9 | 4402.9 | 4352.9 | 4369.9 |
| 65°   | 1685.3 | 1709.8 | 1932.9 | 2468.5 | 3180.1 | 4047.3 | 4604.4 | 4661.9 | 4540.4 | 4477.4 | 4499.9 |
| 67.5° | 1017.7 | 1035.7 | 1197.2 | 1629.8 | 2433.5 | 3581.2 | 4536.9 | 4811.0 | 4637.4 | 4535.9 | 4554.4 |
| 68°   | 909.7  | 926.2  | 1061.2 | 1470.8 | 2250.9 | 3449.7 | 4475.4 | 4828.0 | 4647.9 | 4534.9 | 4551.4 |
| 70°   | 549.6  | 560.6  | 651.1  | 909.2  | 1500.8 | 2736.5 | 4055.8 | 4814.0 | 4714.9 | 4548.9 | 4558.4 |
| 72.5° | 358.1  | 361.6  | 376.6  | 466.6  | 766.7  | 1530.3 | 3044.1 | 4485.9 | 4815.5 | 4630.4 | 4628.9 |
| 75°   | 297.6  | 295.6  | 297.1  | 307.6  | 378.1  | 671.1  | 1778.9 | 3543.7 | 4590.4 | 4501.9 | 4470.4 |
| 77.5° | 251.6  | 250.0  | 249.5  | 250.0  | 253.1  | 324.1  | 772.2  | 2207.4 | 3512.7 | 3982.3 | 4010.3 |
| 80°   | 203.5  | 201.5  | 208.0  | 205.0  | 196.0  | 201.5  | 323.6  | 918.2  | 1655.8 | 1781.4 | 1669.3 |
| 82.5° | 148.0  | 140.5  | 168.5  | 160.5  | 153.0  | 142.0  | 178.5  | 296.6  | 395.1  | 271.1  | 190.5  |
| 85°   | 114.0  | 106.0  | 128.0  | 123.0  | 105.0  | 72.5   | 106.0  | 145.0  | 160.0  | 91.5   | 72.0   |
| 87.5° | 46.5   | 49.0   | 92.5   | 73.0   | 61.5   | 35.0   | 43.5   | 58.0   | 78.0   | 39.0   | 30.0   |
| 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)