

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: P451337

Luminaire Tested: **GLAN-SA2B-722-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451337  
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: STREETWORKS  
Catalog Number: GLAN-SA2B-722-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8397 lumens  
Efficiency: N/A  
Efficacy: 102.4 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): 82  
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



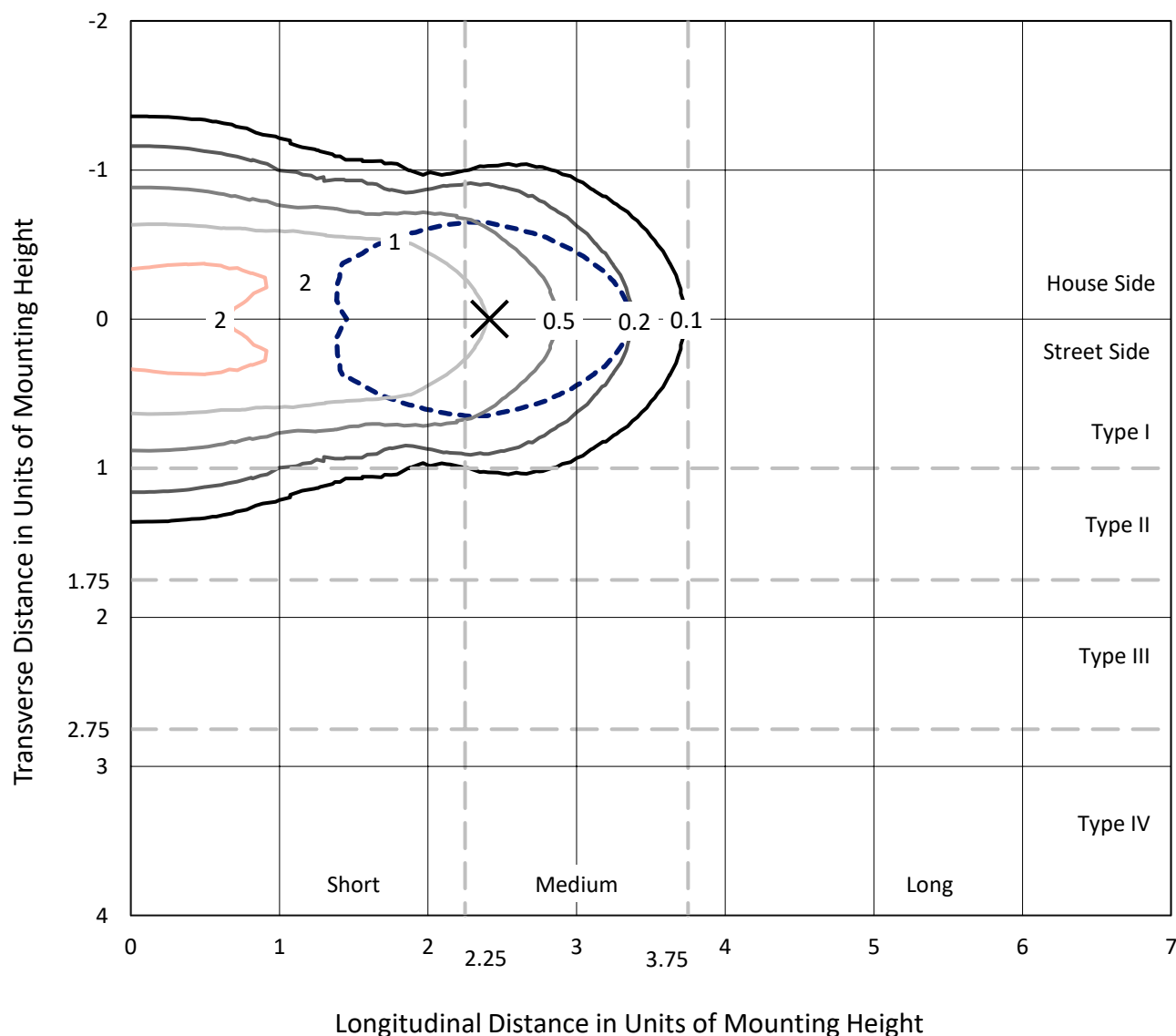
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



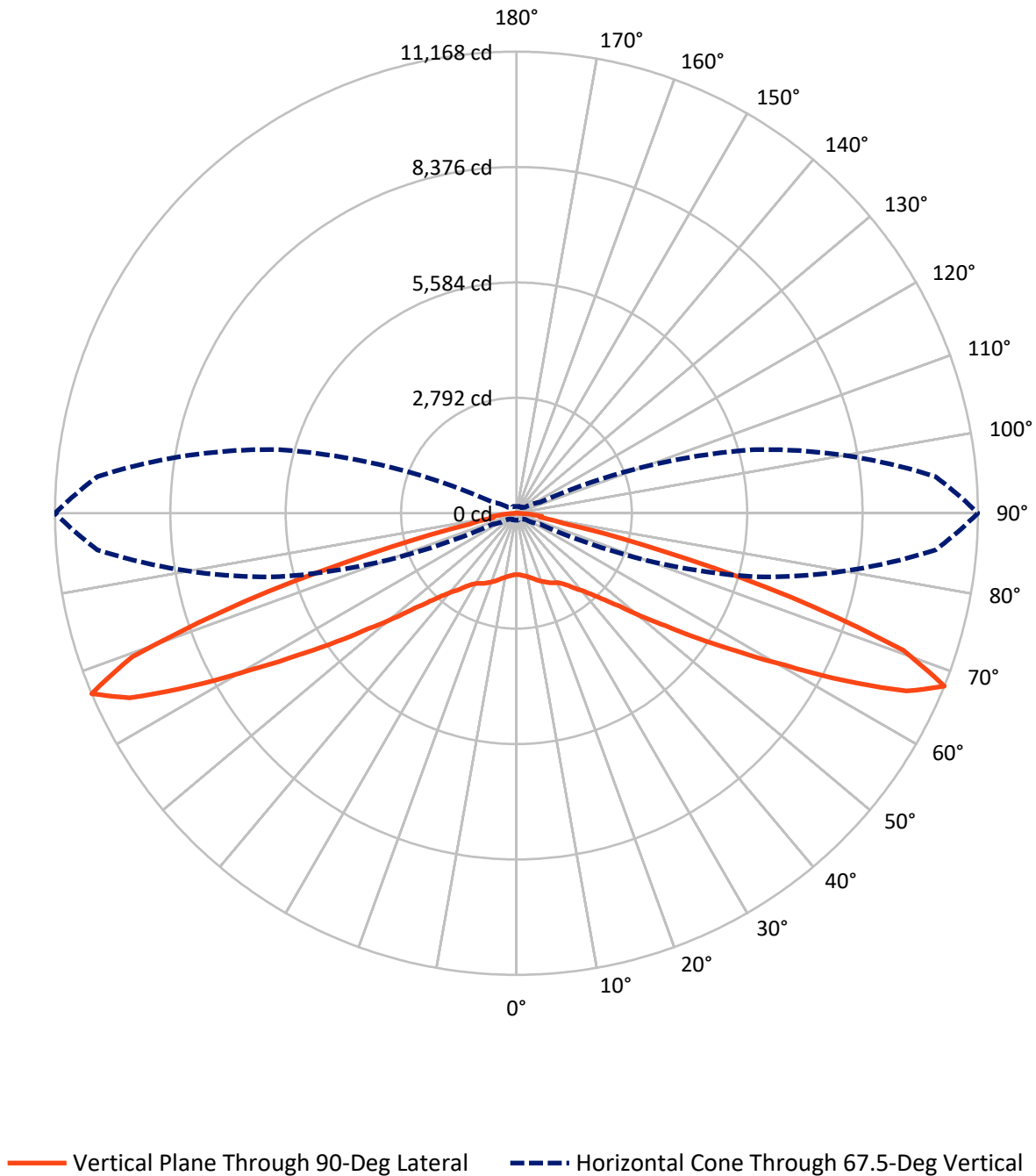
Based on 25 foot mounting height. Maximum calculated value = 2.5 fc

Type I - Short - N/A

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## Luminous Intensity Polar Plot



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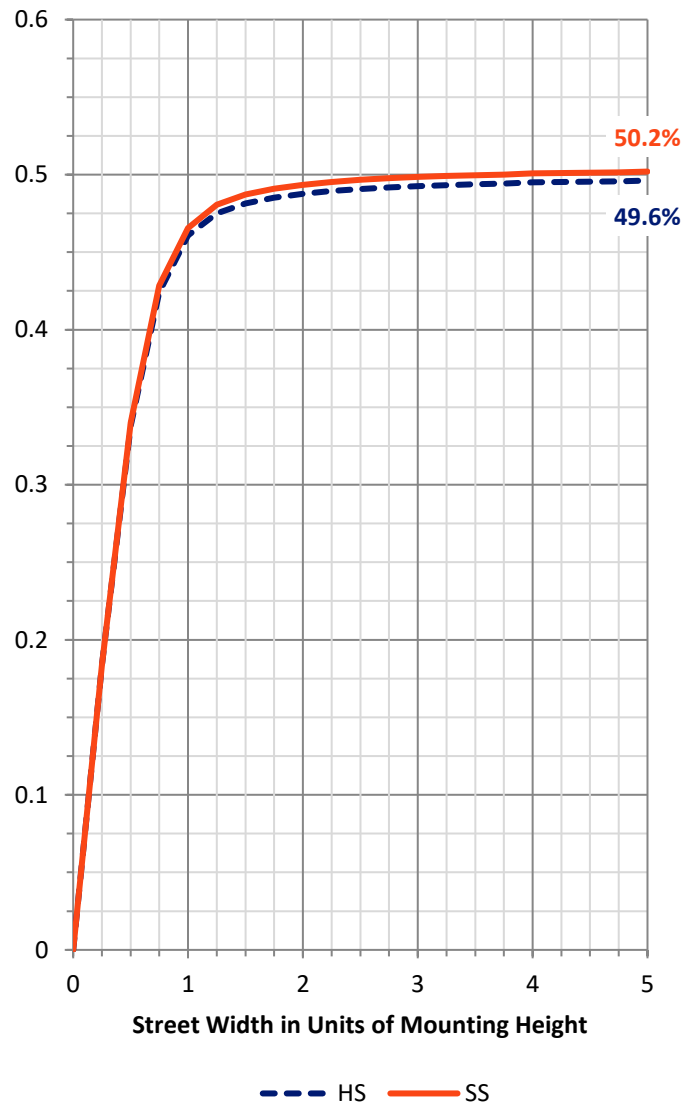
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4198.5   | 0.0    | 4198.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4198.5   | 0.0    | 4198.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8397.0   | 0.0    | 8397.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 148.2  | 1.8       |
| 10°-20°   | 474.2  | 5.6       |
| 20°-30°   | 793.7  | 9.5       |
| 30°-40°   | 1075.2 | 12.8      |
| 40°-50°   | 1361.9 | 16.2      |
| 50°-60°   | 1701.4 | 20.3      |
| 60°-70°   | 1999.9 | 23.8      |
| 70°-80°   | 765.1  | 9.1       |
| 80°-90°   | 77.5   | 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°    | 8397.0 | 100.0     |
| 0°-180°   | 8397.0 | 100.0     |

**Coefficient of Utilization**



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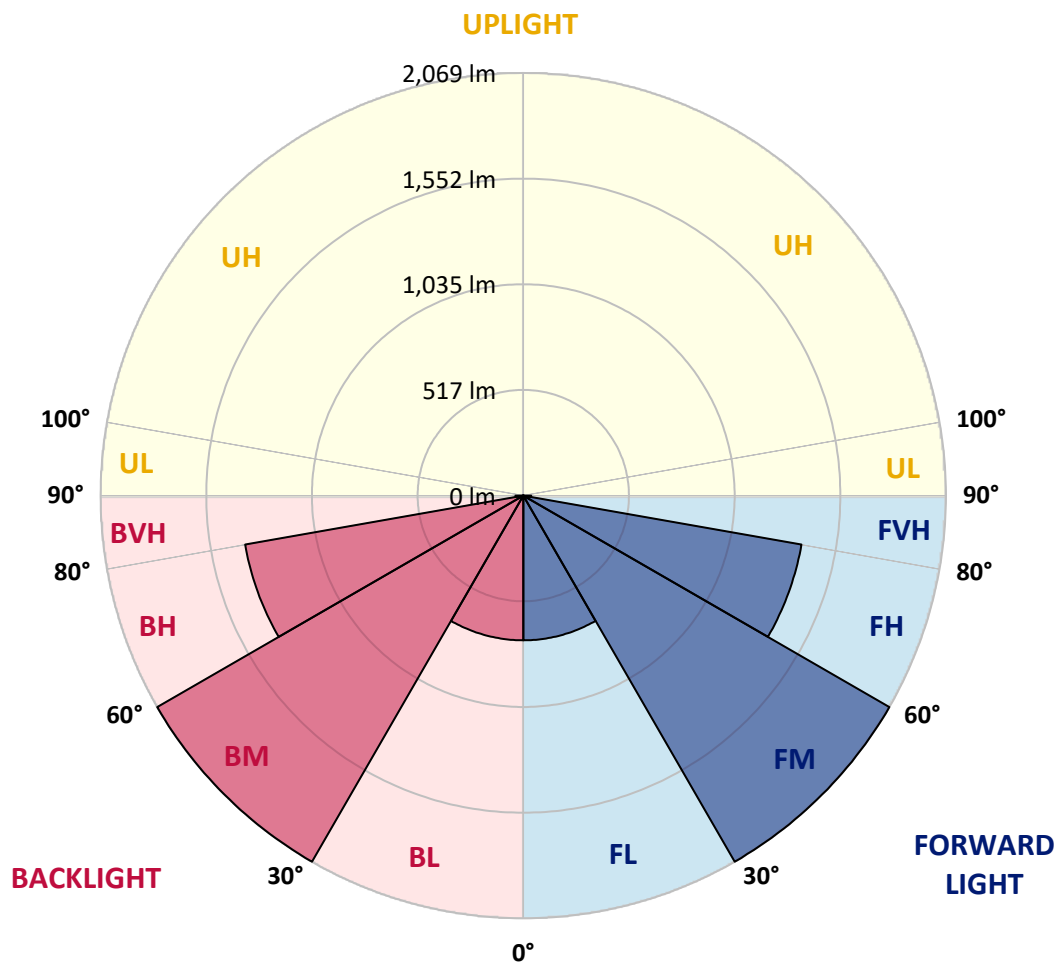
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 708.0  | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 2069.2 | 24.6      |                         |      |         |
| FH   | (60°-80°)   | 1382.5 | 16.5      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 38.8   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 708.0  | 8.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2069.2 | 24.6      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1382.5 | 16.5      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 38.8   | 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°    | 1486.5 | 1486.5 | 1486.5 | 1486.5 | 1486.5 | 1486.5 | 1486.5 | 1486.5 | 1486.5 | 1486.5  | 1486.5  |
| 2.5°  | 1505.6 | 1504.7 | 1505.1 | 1504.7 | 1506.1 | 1505.1 | 1499.5 | 1494.9 | 1491.2 | 1491.6  | 1490.3  |
| 5°    | 1537.7 | 1538.1 | 1538.6 | 1536.3 | 1539.5 | 1537.7 | 1528.8 | 1521.4 | 1514.0 | 1511.2  | 1510.2  |
| 7.5°  | 1564.2 | 1566.5 | 1567.9 | 1570.2 | 1575.8 | 1575.8 | 1571.2 | 1560.5 | 1544.2 | 1534.9  | 1534.4  |
| 10°   | 1590.7 | 1592.5 | 1596.7 | 1604.2 | 1613.5 | 1622.3 | 1620.4 | 1606.0 | 1585.1 | 1569.3  | 1565.6  |
| 12.5° | 1600.0 | 1602.3 | 1616.3 | 1637.6 | 1658.6 | 1675.8 | 1675.8 | 1664.2 | 1637.2 | 1613.0  | 1606.0  |
| 15°   | 1567.4 | 1571.6 | 1596.7 | 1642.3 | 1697.2 | 1734.8 | 1743.2 | 1726.9 | 1698.1 | 1660.9  | 1652.5  |
| 17.5° | 1502.8 | 1513.0 | 1549.8 | 1617.2 | 1708.3 | 1786.4 | 1810.6 | 1802.7 | 1765.5 | 1718.1  | 1708.3  |
| 20°   | 1433.5 | 1444.7 | 1483.7 | 1573.0 | 1699.0 | 1816.7 | 1886.9 | 1888.7 | 1842.7 | 1773.9  | 1759.5  |
| 22.5° | 1357.3 | 1365.6 | 1415.9 | 1520.5 | 1671.1 | 1823.6 | 1952.4 | 1984.5 | 1922.2 | 1829.7  | 1809.2  |
| 25°   | 1271.7 | 1281.0 | 1333.6 | 1446.5 | 1618.6 | 1815.7 | 2012.4 | 2083.1 | 2005.4 | 1889.2  | 1863.2  |
| 27.5° | 1189.9 | 1193.6 | 1249.9 | 1364.7 | 1549.3 | 1795.3 | 2056.6 | 2173.8 | 2097.5 | 1938.5  | 1905.5  |
| 30°   | 1111.3 | 1120.1 | 1169.9 | 1283.3 | 1469.8 | 1755.3 | 2094.7 | 2277.0 | 2196.5 | 1990.1  | 1947.8  |
| 32.5° | 1028.1 | 1038.8 | 1092.7 | 1207.5 | 1390.3 | 1695.3 | 2118.0 | 2390.0 | 2334.6 | 2073.8  | 2028.7  |
| 35°   | 948.1  | 955.1  | 1009.5 | 1121.1 | 1312.6 | 1625.6 | 2122.2 | 2517.4 | 2512.7 | 2200.7  | 2140.8  |
| 37.5° | 866.3  | 876.5  | 931.3  | 1038.3 | 1230.3 | 1551.6 | 2101.2 | 2652.7 | 2727.6 | 2377.0  | 2312.3  |
| 40°   | 787.7  | 796.5  | 850.4  | 958.3  | 1136.9 | 1461.4 | 2051.5 | 2776.4 | 2978.2 | 2558.3  | 2466.7  |
| 42.5° | 702.1  | 704.4  | 763.5  | 873.2  | 1045.3 | 1356.8 | 1979.9 | 2886.6 | 3257.6 | 2801.5  | 2687.6  |
| 45°   | 604.9  | 611.0  | 665.8  | 773.7  | 940.2  | 1239.6 | 1882.7 | 2977.7 | 3611.9 | 3138.6  | 2983.3  |
| 47.5° | 507.8  | 512.9  | 563.1  | 669.6  | 825.3  | 1105.2 | 1733.0 | 3057.7 | 3975.6 | 3566.8  | 3363.2  |
| 50°   | 412.9  | 415.7  | 456.6  | 551.0  | 696.1  | 963.9  | 1547.4 | 3083.3 | 4386.6 | 4173.2  | 3913.2  |
| 52.5° | 326.4  | 330.6  | 361.8  | 435.7  | 558.0  | 797.0  | 1347.0 | 3020.0 | 4866.4 | 4892.0  | 4525.6  |
| 55°   | 264.6  | 266.0  | 289.2  | 343.6  | 436.1  | 622.1  | 1105.2 | 2843.8 | 5382.6 | 5813.1  | 5345.8  |
| 57.5° | 227.8  | 228.8  | 241.8  | 272.0  | 335.7  | 469.2  | 857.4  | 2510.4 | 5846.2 | 6892.3  | 6291.6  |
| 60°   | 206.9  | 207.4  | 214.8  | 232.5  | 266.0  | 359.9  | 614.2  | 2039.9 | 6303.7 | 8093.4  | 7467.1  |
| 62.5° | 193.9  | 193.9  | 199.0  | 208.8  | 225.0  | 276.2  | 445.0  | 1471.7 | 6617.1 | 9312.1  | 8915.9  |
| 65°   | 181.3  | 181.3  | 185.1  | 192.0  | 200.9  | 226.0  | 328.7  | 959.7  | 6609.2 | 10199.7 | 10373.2 |
| 67.5° | 166.9  | 166.9  | 169.7  | 176.7  | 181.8  | 194.4  | 253.9  | 628.6  | 5936.8 | 10180.2 | 11168.3 |
| 70°   | 149.7  | 149.7  | 153.4  | 159.5  | 163.7  | 171.6  | 200.4  | 430.1  | 4361.5 | 8692.3  | 9932.4  |
| 72.5° | 132.5  | 133.0  | 135.3  | 141.4  | 144.6  | 149.3  | 166.5  | 301.3  | 2675.5 | 5918.7  | 6944.9  |
| 75°   | 113.5  | 114.4  | 116.7  | 122.8  | 125.5  | 127.4  | 140.4  | 214.8  | 1353.5 | 3191.1  | 3633.3  |
| 77.5° | 91.6   | 93.5   | 94.9   | 101.4  | 103.2  | 106.0  | 115.8  | 155.3  | 594.2  | 1146.6  | 1156.9  |
| 80°   | 67.0   | 69.3   | 73.5   | 79.5   | 80.9   | 82.8   | 88.3   | 110.2  | 269.2  | 523.6   | 568.7   |
| 82.5° | 49.3   | 52.5   | 47.4   | 55.3   | 55.3   | 53.0   | 62.3   | 73.9   | 123.7  | 518.4   | 620.3   |
| 85°   | 27.0   | 27.4   | 24.6   | 28.4   | 30.2   | 29.8   | 33.0   | 36.3   | 60.0   | 345.9   | 356.6   |
| 87.5° | 6.5    | 7.0    | 7.4    | 8.8    | 10.7   | 10.7   | 11.6   | 10.2   | 19.5   | 112.1   | 64.2    |
| 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)