

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: P453005

Luminaire Tested: **GLAN-SA4A-730-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453005  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4A-730-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17243 lumens  
Efficiency: N/A  
Efficacy: 142.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 121  
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



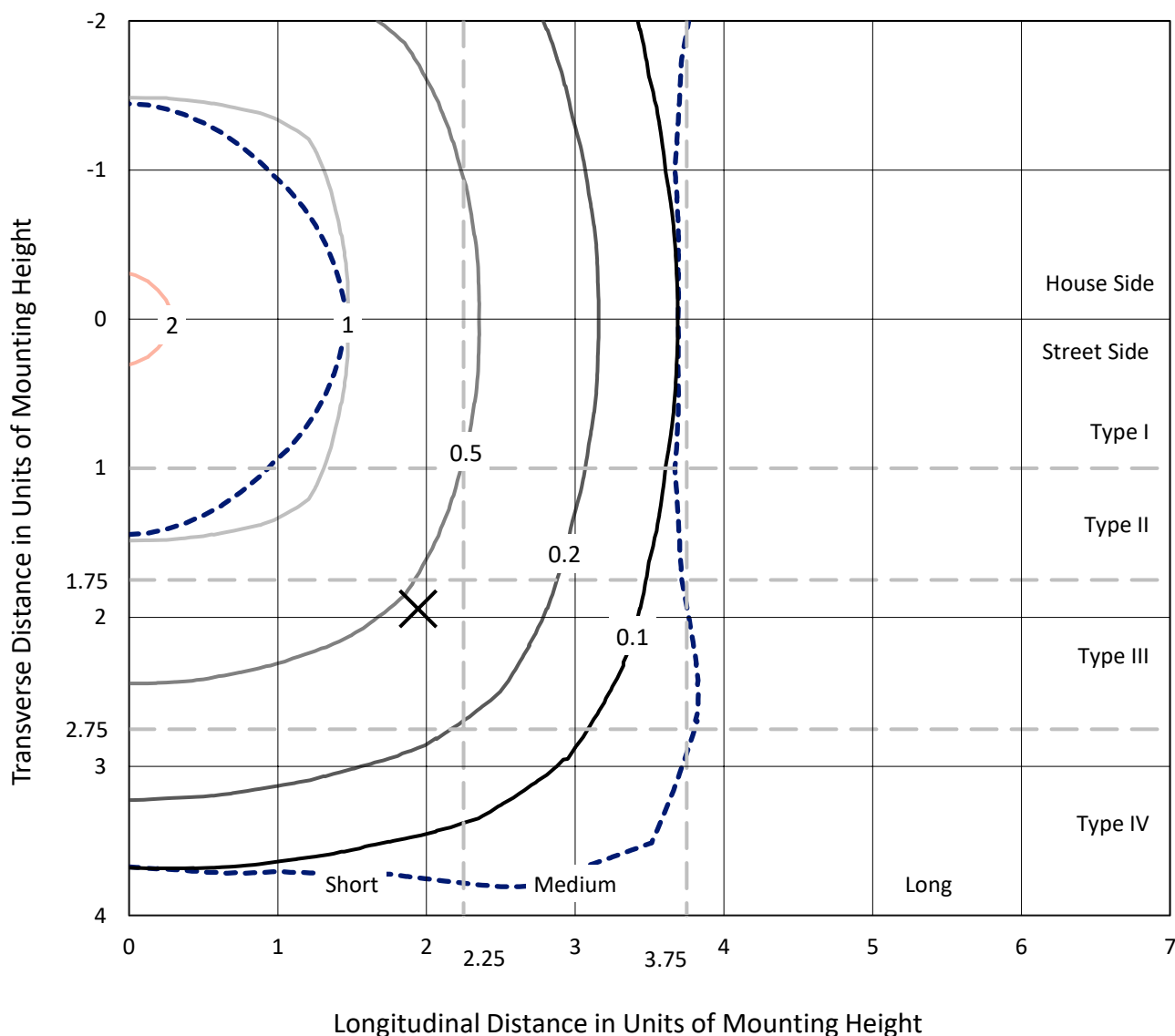
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



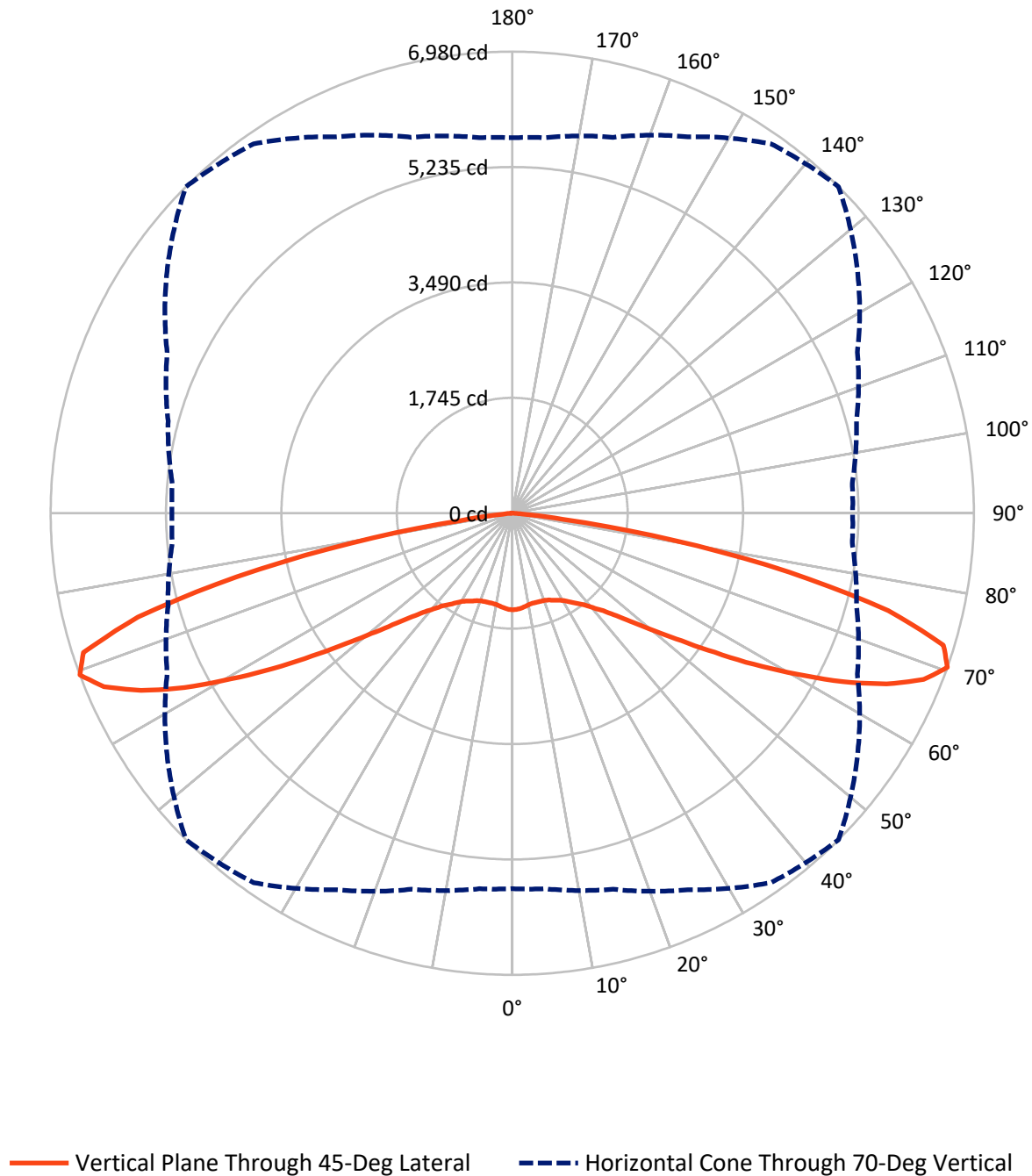
Based on 25 foot mounting height. Maximum calculated value = 2.3 fc

Type V - Short - N/A

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## Luminous Intensity Polar Plot



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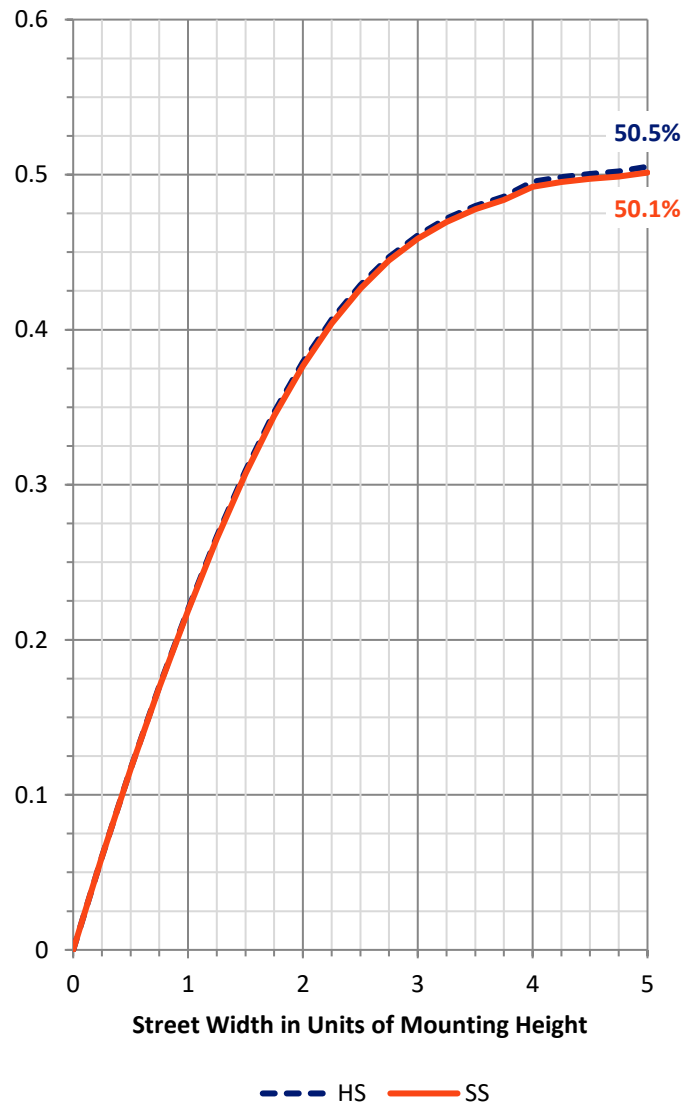
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8621.5   | 0.0    | 8621.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8621.5   | 0.0    | 8621.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 17243.0  | 0.0    | 17243.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 136.5   | 0.8       |
| 10°-20°   | 399.7   | 2.3       |
| 20°-30°   | 681.0   | 3.9       |
| 30°-40°   | 1055.5  | 6.1       |
| 40°-50°   | 1776.5  | 10.3      |
| 50°-60°   | 3232.3  | 18.7      |
| 60°-70°   | 5472.1  | 31.7      |
| 70°-80°   | 4235.7  | 24.6      |
| 80°-90°   | 253.8   | 1.5       |
| 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°    | 17243.0 | 100.0     |
| 0°-180°   | 17243.0 | 100.0     |

**Coefficient of Utilization**



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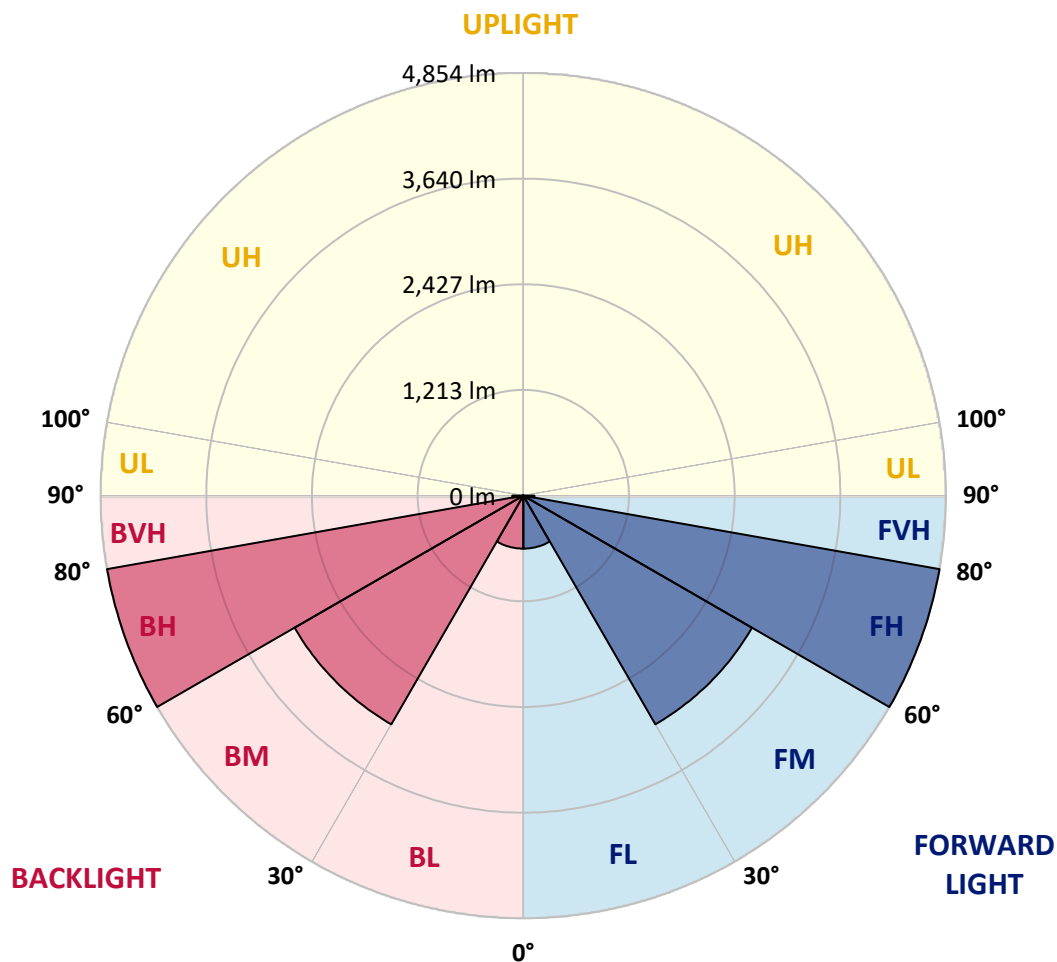
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 608.6  | 3.5       |                         |      |         |
| FM   | (30°-60°)   | 3032.1 | 17.6      |                         |      |         |
| FH   | (60°-80°)   | 4853.9 | 28.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 126.9  | 0.7       |                         |      | G2/225  |
| BL   | (0°-30°)    | 608.6  | 3.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3032.1 | 17.6      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 4853.9 | 28.1      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 126.9  | 0.7       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1459.8 | 1459.8 | 1459.8 | 1459.8 | 1459.8 | 1459.8 | 1459.8 | 1459.8 | 1459.8 | 1459.8 | 1459.8 |
| 2.5°  | 1456.2 | 1457.1 | 1457.1 | 1455.3 | 1454.4 | 1454.4 | 1453.5 | 1453.5 | 1456.2 | 1457.1 | 1458.0 |
| 5°    | 1443.4 | 1443.4 | 1443.4 | 1442.5 | 1440.7 | 1440.7 | 1438.9 | 1438.9 | 1439.8 | 1442.5 | 1440.7 |
| 7.5°  | 1426.1 | 1428.0 | 1428.0 | 1424.3 | 1421.6 | 1421.6 | 1420.7 | 1421.6 | 1422.5 | 1425.2 | 1424.3 |
| 10°   | 1420.7 | 1421.6 | 1417.0 | 1410.7 | 1406.1 | 1403.4 | 1404.3 | 1406.1 | 1410.7 | 1412.5 | 1413.4 |
| 12.5° | 1424.3 | 1424.3 | 1416.1 | 1407.0 | 1398.8 | 1395.2 | 1394.3 | 1400.6 | 1408.8 | 1414.3 | 1416.1 |
| 15°   | 1428.9 | 1427.0 | 1417.0 | 1405.2 | 1397.0 | 1396.1 | 1395.2 | 1399.7 | 1411.6 | 1422.5 | 1423.4 |
| 17.5° | 1431.6 | 1430.7 | 1417.9 | 1403.4 | 1398.8 | 1398.8 | 1397.9 | 1401.5 | 1414.3 | 1428.0 | 1428.9 |
| 20°   | 1440.7 | 1438.0 | 1423.4 | 1407.9 | 1404.3 | 1406.1 | 1403.4 | 1407.9 | 1421.6 | 1438.0 | 1441.6 |
| 22.5° | 1458.9 | 1456.2 | 1441.6 | 1426.1 | 1424.3 | 1424.3 | 1423.4 | 1428.0 | 1442.5 | 1459.8 | 1462.6 |
| 25°   | 1480.8 | 1478.0 | 1464.4 | 1453.5 | 1455.3 | 1458.9 | 1457.1 | 1458.0 | 1469.8 | 1484.4 | 1489.0 |
| 27.5° | 1509.9 | 1505.4 | 1493.5 | 1484.4 | 1489.9 | 1489.9 | 1489.9 | 1489.0 | 1496.3 | 1509.9 | 1514.5 |
| 30°   | 1545.4 | 1543.6 | 1530.9 | 1530.0 | 1534.5 | 1530.0 | 1530.0 | 1530.9 | 1531.8 | 1544.5 | 1549.1 |
| 32.5° | 1591.9 | 1588.2 | 1581.9 | 1580.0 | 1592.8 | 1596.4 | 1583.7 | 1571.8 | 1578.2 | 1591.0 | 1593.7 |
| 35°   | 1668.4 | 1662.9 | 1653.8 | 1643.8 | 1653.8 | 1671.1 | 1643.8 | 1634.7 | 1651.1 | 1668.4 | 1670.2 |
| 37.5° | 1772.2 | 1769.5 | 1754.9 | 1736.7 | 1735.8 | 1754.0 | 1725.8 | 1724.8 | 1755.8 | 1776.8 | 1779.5 |
| 40°   | 1902.4 | 1905.2 | 1886.9 | 1869.6 | 1860.5 | 1875.1 | 1853.2 | 1861.4 | 1891.5 | 1915.2 | 1913.4 |
| 42.5° | 2085.5 | 2075.5 | 2047.2 | 2030.8 | 2020.8 | 2015.4 | 2009.9 | 2022.6 | 2056.3 | 2081.8 | 2101.9 |
| 45°   | 2299.5 | 2295.8 | 2260.3 | 2240.3 | 2218.4 | 2210.2 | 2208.4 | 2231.2 | 2272.2 | 2303.1 | 2305.9 |
| 47.5° | 2541.7 | 2533.5 | 2510.8 | 2489.8 | 2481.6 | 2471.6 | 2462.5 | 2479.8 | 2520.8 | 2542.6 | 2549.0 |
| 50°   | 2791.3 | 2793.1 | 2793.1 | 2789.4 | 2797.6 | 2799.5 | 2774.9 | 2781.2 | 2804.0 | 2802.2 | 2800.4 |
| 52.5° | 3076.3 | 3086.3 | 3133.7 | 3138.2 | 3177.4 | 3203.8 | 3159.2 | 3132.8 | 3124.6 | 3075.4 | 3079.0 |
| 55°   | 3411.4 | 3420.5 | 3491.6 | 3562.6 | 3668.2 | 3712.9 | 3619.1 | 3537.1 | 3478.8 | 3404.1 | 3407.8 |
| 57.5° | 3829.4 | 3834.0 | 3901.4 | 4038.0 | 4205.6 | 4310.3 | 4145.4 | 3983.3 | 3865.0 | 3793.9 | 3765.7 |
| 60°   | 4279.3 | 4283.9 | 4382.2 | 4548.9 | 4809.3 | 4936.8 | 4732.8 | 4467.8 | 4318.5 | 4210.1 | 4217.4 |
| 62.5° | 4819.4 | 4837.6 | 4925.9 | 5155.4 | 5471.4 | 5614.4 | 5343.9 | 4989.7 | 4787.5 | 4652.7 | 4658.2 |
| 65°   | 5397.6 | 5428.6 | 5525.1 | 5777.4 | 6068.8 | 6222.7 | 5891.2 | 5482.3 | 5231.0 | 5066.2 | 5083.5 |
| 67.5° | 5772.8 | 5800.2 | 5939.5 | 6218.2 | 6581.5 | 6709.0 | 6281.0 | 5804.7 | 5490.5 | 5293.8 | 5257.4 |
| 70°   | 5677.2 | 5700.0 | 5885.8 | 6281.0 | 6819.2 | 6980.4 | 6373.9 | 5757.4 | 5387.6 | 5160.9 | 5146.3 |
| 72.5° | 5011.5 | 4964.2 | 5235.5 | 5802.9 | 6547.8 | 6818.3 | 6081.6 | 5258.3 | 4792.9 | 4559.8 | 4532.5 |
| 75°   | 3321.3 | 3424.2 | 3824.9 | 4493.3 | 5539.7 | 5874.8 | 5190.9 | 4221.9 | 3636.4 | 3442.4 | 3412.3 |
| 77.5° | 1110.1 | 1189.4 | 1545.4 | 2547.2 | 3776.6 | 4280.2 | 3782.1 | 2761.2 | 1953.4 | 1573.7 | 1581.0 |
| 80°   | 294.2  | 290.5  | 376.1  | 700.3  | 1632.0 | 2478.9 | 1899.7 | 935.3  | 511.8  | 370.6  | 351.5  |
| 82.5° | 105.6  | 118.4  | 152.1  | 194.0  | 432.6  | 770.4  | 543.7  | 262.3  | 192.2  | 142.1  | 137.5  |
| 85°   | 46.4   | 45.5   | 65.6   | 77.4   | 108.4  | 143.9  | 127.5  | 111.1  | 97.4   | 64.7   | 60.1   |
| 87.5° | 10.0   | 10.0   | 15.5   | 11.8   | 19.1   | 19.1   | 23.7   | 28.2   | 29.1   | 19.1   | 15.5   |
| 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)