

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: P317277

Luminaire Tested: **GAN-SA3B-830-U-RW**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P317277  
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-830-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 14172 lumens  
Efficiency: N/A  
Efficacy: 114.3 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

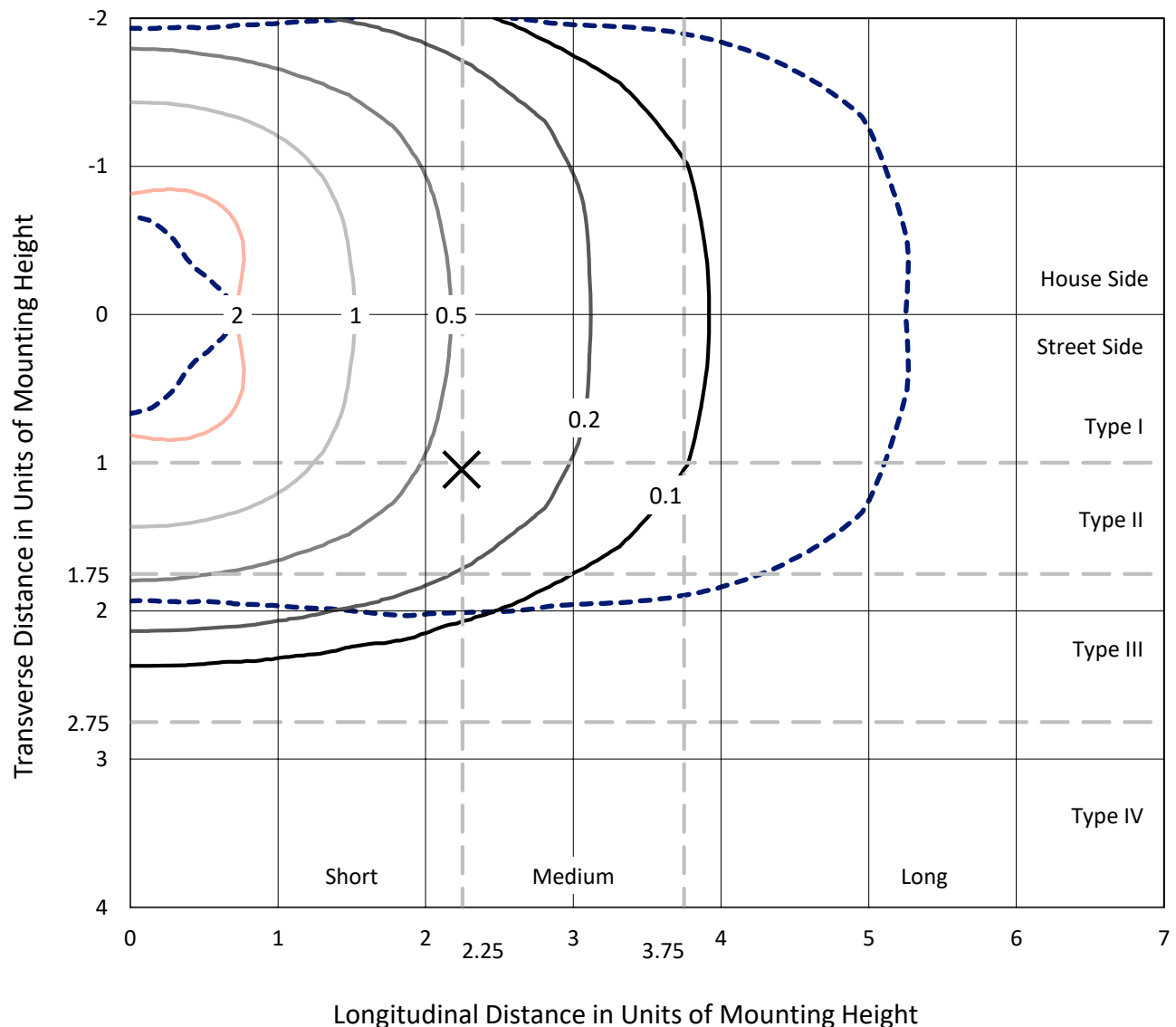


REPORT NUMBER: P317277

CATALOG NUMBER: GAN-SA3B-830-U-RW

## Iso-Footcandle Lines of Horizontal Illumination

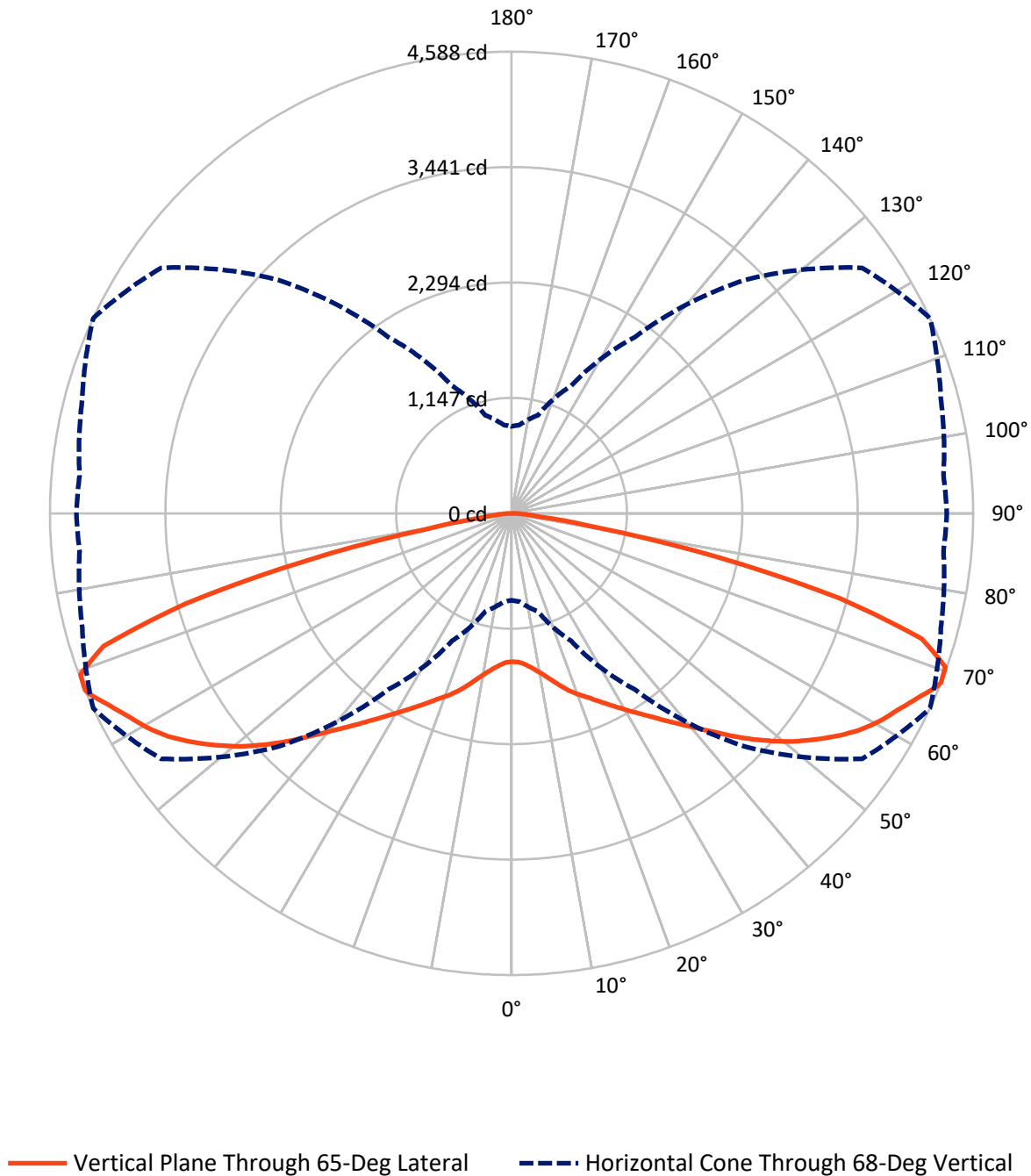
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type III - Short - N/A

REPORT NUMBER: P317277  
CATALOG NUMBER: GAN-SA3B-830-U-RW

## Luminous Intensity Polar Plot



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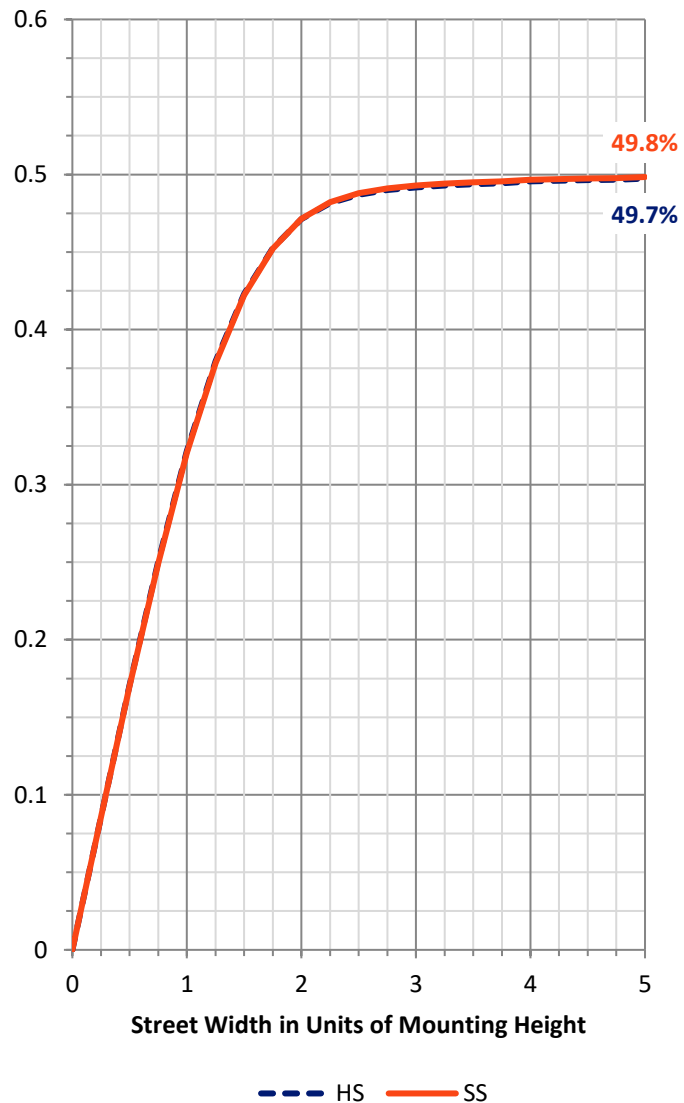
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7086.0   | 0.0    | 7086.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7086.0   | 0.0    | 7086.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 14172.0  | 0.0    | 14172.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 144.3   | 1.0       |
| 10°-20°   | 483.1   | 3.4       |
| 20°-30°   | 941.9   | 6.6       |
| 30°-40°   | 1582.3  | 11.2      |
| 40°-50°   | 2493.1  | 17.6      |
| 50°-60°   | 3334.1  | 23.5      |
| 60°-70°   | 3241.2  | 22.9      |
| 70°-80°   | 1771.8  | 12.5      |
| 80°-90°   | 180.2   | 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°    | 14172.0 | 100.0     |
| 0°-180°   | 14172.0 | 100.0     |

**Coefficient of Utilization**



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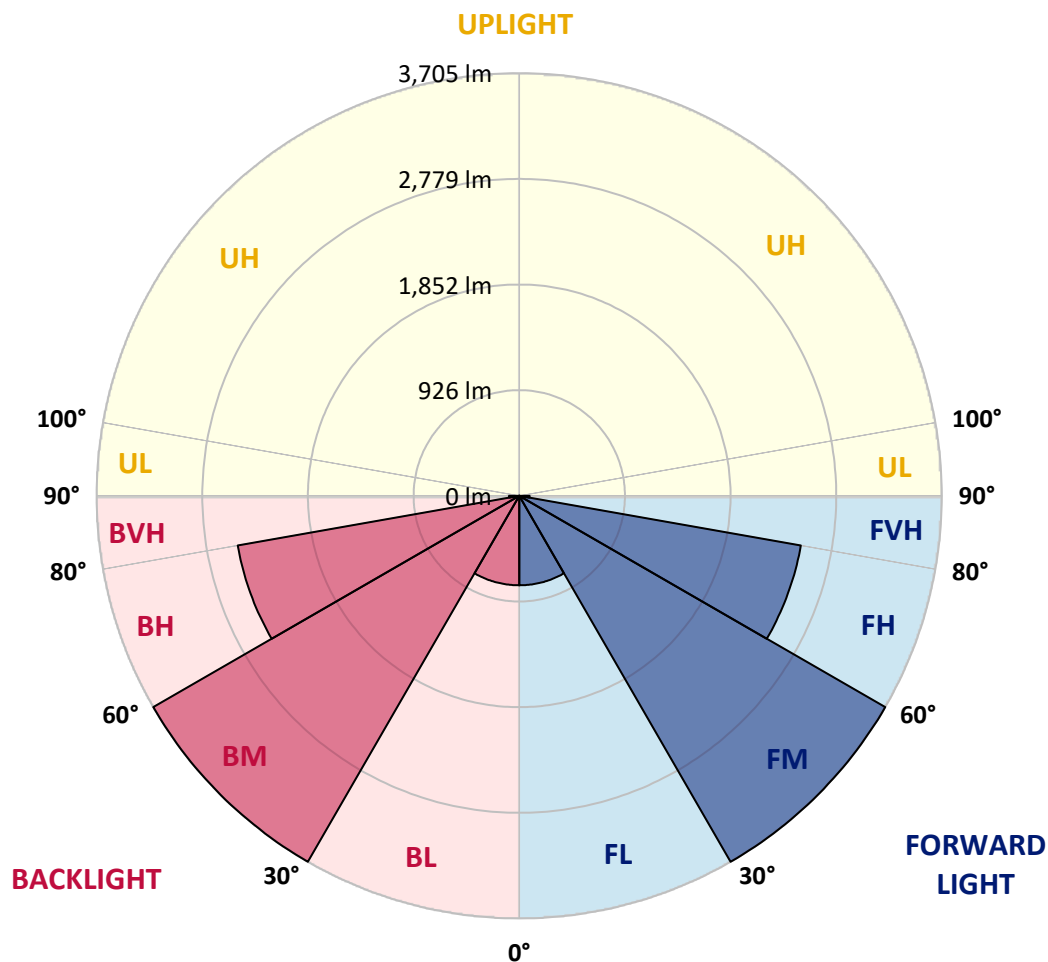
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 784.6  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 3704.8 | 26.1      |                         |      |         |
| FH   | (60°-80°)   | 2506.5 | 17.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 90.1   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 784.6  | 5.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3704.8 | 26.1      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2506.5 | 17.7      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 90.1   | 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°    | 1473.6 | 1473.6 | 1473.6 | 1473.6 | 1473.6 | 1473.6 | 1473.6 | 1473.6 | 1473.6 | 1473.6 | 1473.6 |
| 2.5°  | 1463.1 | 1463.6 | 1466.0 | 1468.8 | 1471.2 | 1477.4 | 1478.8 | 1481.2 | 1482.1 | 1484.5 | 1484.5 |
| 5°    | 1450.3 | 1451.2 | 1456.9 | 1464.5 | 1473.1 | 1488.3 | 1499.2 | 1511.6 | 1517.7 | 1524.4 | 1523.9 |
| 7.5°  | 1448.8 | 1451.2 | 1459.3 | 1471.7 | 1485.9 | 1511.1 | 1533.9 | 1558.6 | 1575.2 | 1590.5 | 1589.5 |
| 10°   | 1463.6 | 1467.4 | 1478.8 | 1497.3 | 1518.7 | 1550.1 | 1583.8 | 1617.1 | 1646.0 | 1669.3 | 1670.3 |
| 12.5° | 1485.9 | 1490.7 | 1508.7 | 1536.8 | 1569.1 | 1609.5 | 1649.4 | 1686.9 | 1726.8 | 1761.5 | 1764.4 |
| 15°   | 1515.4 | 1521.5 | 1548.6 | 1590.5 | 1639.9 | 1687.9 | 1730.6 | 1769.1 | 1815.2 | 1863.2 | 1868.0 |
| 17.5° | 1559.1 | 1567.6 | 1603.3 | 1659.8 | 1724.9 | 1777.7 | 1822.3 | 1851.3 | 1889.8 | 1939.2 | 1948.3 |
| 20°   | 1625.6 | 1636.5 | 1681.7 | 1749.2 | 1828.5 | 1883.6 | 1917.9 | 1924.0 | 1943.0 | 1987.2 | 1997.7 |
| 22.5° | 1712.1 | 1721.6 | 1772.0 | 1852.3 | 1941.1 | 2001.0 | 2019.1 | 1994.4 | 1992.5 | 2028.1 | 2038.1 |
| 25°   | 1808.6 | 1817.1 | 1875.6 | 1965.8 | 2061.4 | 2127.4 | 2126.9 | 2078.9 | 2045.7 | 2073.2 | 2083.7 |
| 27.5° | 1916.9 | 1930.2 | 1986.3 | 2081.3 | 2183.5 | 2248.6 | 2244.8 | 2170.7 | 2107.5 | 2114.6 | 2123.6 |
| 30°   | 2041.4 | 2056.1 | 2110.8 | 2207.2 | 2309.4 | 2373.1 | 2368.3 | 2270.4 | 2175.4 | 2156.4 | 2163.1 |
| 32.5° | 2195.8 | 2213.4 | 2265.2 | 2360.3 | 2450.5 | 2508.0 | 2494.3 | 2378.8 | 2257.1 | 2215.8 | 2222.0 |
| 35°   | 2381.6 | 2392.1 | 2446.7 | 2540.3 | 2613.5 | 2653.0 | 2624.0 | 2504.2 | 2360.7 | 2310.8 | 2310.8 |
| 37.5° | 2569.8 | 2577.9 | 2639.2 | 2729.9 | 2800.8 | 2821.7 | 2765.1 | 2641.6 | 2496.2 | 2425.4 | 2426.8 |
| 40°   | 2750.4 | 2772.2 | 2841.1 | 2934.3 | 3004.1 | 3009.8 | 2934.8 | 2798.4 | 2646.8 | 2573.6 | 2582.2 |
| 42.5° | 2939.0 | 2960.4 | 3042.6 | 3148.1 | 3209.9 | 3219.4 | 3131.5 | 2974.2 | 2816.9 | 2757.5 | 2767.0 |
| 45°   | 3107.2 | 3124.4 | 3219.4 | 3342.0 | 3419.0 | 3443.7 | 3339.6 | 3175.7 | 3000.8 | 2942.8 | 2945.2 |
| 47.5° | 3224.6 | 3247.0 | 3351.5 | 3495.9 | 3608.1 | 3646.1 | 3543.9 | 3371.9 | 3181.9 | 3111.5 | 3117.7 |
| 50°   | 3331.1 | 3342.9 | 3448.9 | 3606.7 | 3749.2 | 3827.6 | 3740.2 | 3565.8 | 3364.8 | 3290.2 | 3296.8 |
| 52.5° | 3390.5 | 3405.7 | 3508.3 | 3672.7 | 3841.4 | 3967.8 | 3914.6 | 3740.2 | 3541.6 | 3468.9 | 3476.9 |
| 55°   | 3349.1 | 3360.5 | 3483.6 | 3687.5 | 3898.4 | 4054.3 | 4062.4 | 3910.8 | 3715.0 | 3651.3 | 3674.1 |
| 57.5° | 3160.9 | 3175.2 | 3325.4 | 3592.4 | 3905.6 | 4112.7 | 4173.6 | 4069.0 | 3877.0 | 3825.3 | 3838.6 |
| 60°   | 2866.8 | 2875.8 | 3036.0 | 3336.3 | 3766.8 | 4137.0 | 4244.4 | 4198.3 | 4035.8 | 3984.0 | 4002.0 |
| 62.5° | 2342.7 | 2356.0 | 2547.5 | 2950.0 | 3473.6 | 4065.2 | 4312.8 | 4305.2 | 4183.5 | 4136.0 | 4152.2 |
| 65°   | 1601.4 | 1624.7 | 1836.6 | 2345.5 | 3021.7 | 3845.7 | 4375.0 | 4429.7 | 4314.2 | 4254.3 | 4275.7 |
| 67.5° | 967.0  | 984.1  | 1137.6 | 1548.6 | 2312.3 | 3402.8 | 4310.9 | 4571.3 | 4406.4 | 4309.9 | 4327.5 |
| 68°   | 864.4  | 880.0  | 1008.3 | 1397.5 | 2138.8 | 3277.8 | 4252.4 | 4587.5 | 4416.4 | 4309.0 | 4324.7 |
| 70°   | 522.2  | 532.7  | 618.7  | 863.9  | 1426.0 | 2600.2 | 3853.8 | 4574.1 | 4480.1 | 4322.3 | 4331.3 |
| 72.5° | 340.2  | 343.6  | 357.8  | 443.3  | 728.5  | 1454.1 | 2892.5 | 4262.4 | 4575.6 | 4399.8 | 4398.3 |
| 75°   | 282.7  | 280.8  | 282.3  | 292.2  | 359.2  | 637.7  | 1690.2 | 3367.2 | 4361.7 | 4277.6 | 4247.7 |
| 77.5° | 239.0  | 237.6  | 237.1  | 237.6  | 240.4  | 307.9  | 733.7  | 2097.5 | 3337.7 | 3783.9 | 3810.5 |
| 80°   | 193.4  | 191.5  | 197.7  | 194.8  | 186.3  | 191.5  | 307.4  | 872.4  | 1573.3 | 1692.6 | 1586.2 |
| 82.5° | 140.7  | 133.5  | 160.1  | 152.5  | 145.4  | 135.0  | 169.6  | 281.8  | 375.4  | 257.6  | 181.0  |
| 85°   | 108.3  | 100.7  | 121.6  | 116.9  | 99.8   | 68.9   | 100.7  | 137.8  | 152.1  | 87.0   | 68.4   |
| 87.5° | 44.2   | 46.6   | 87.9   | 69.4   | 58.4   | 33.3   | 41.3   | 55.1   | 74.1   | 37.1   | 28.5   |
| 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)