

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: P317257

Luminaire Tested: **GAN-SA3D-827-U-RW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317257  
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-SA3D-827-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17801 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

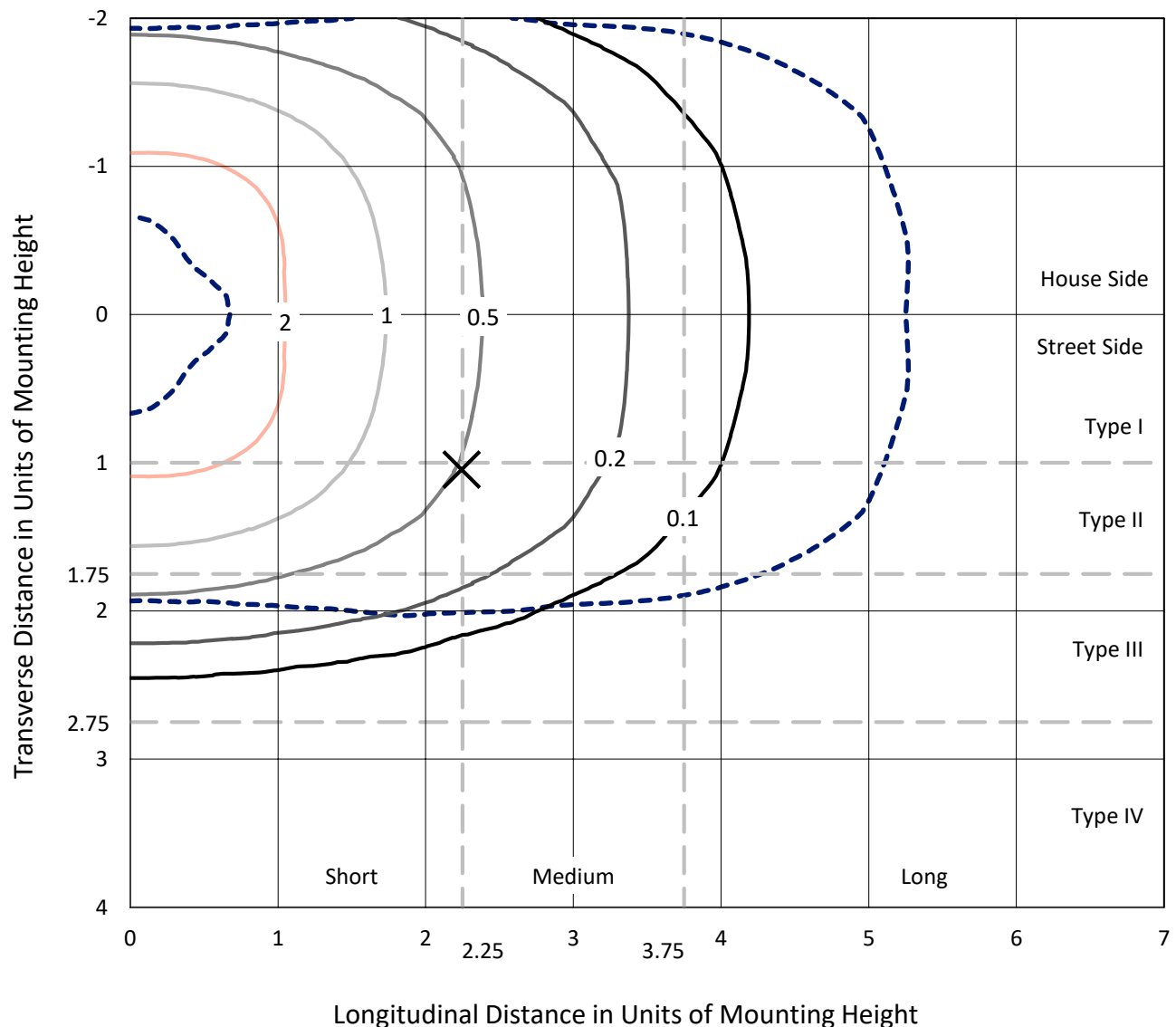
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

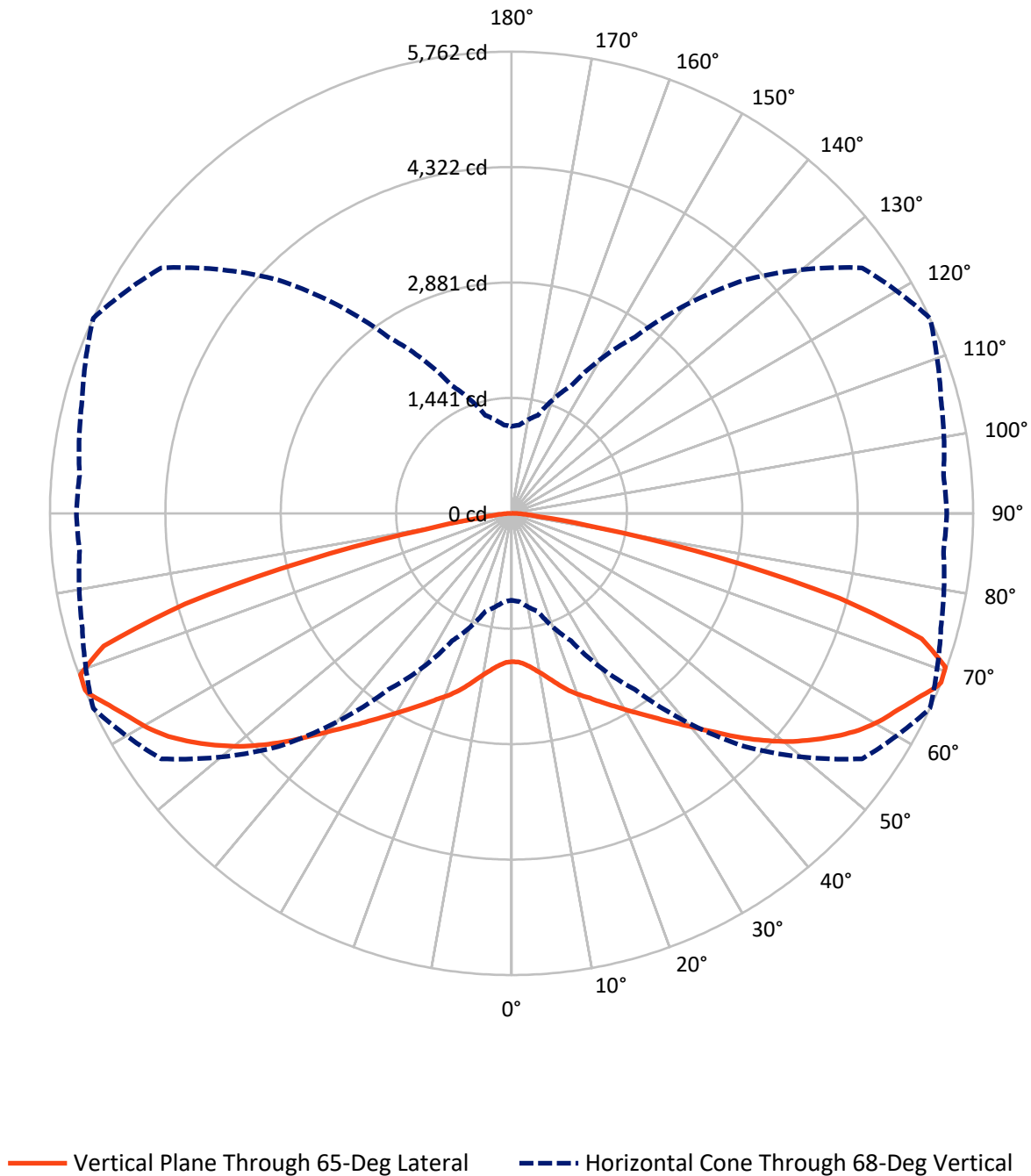
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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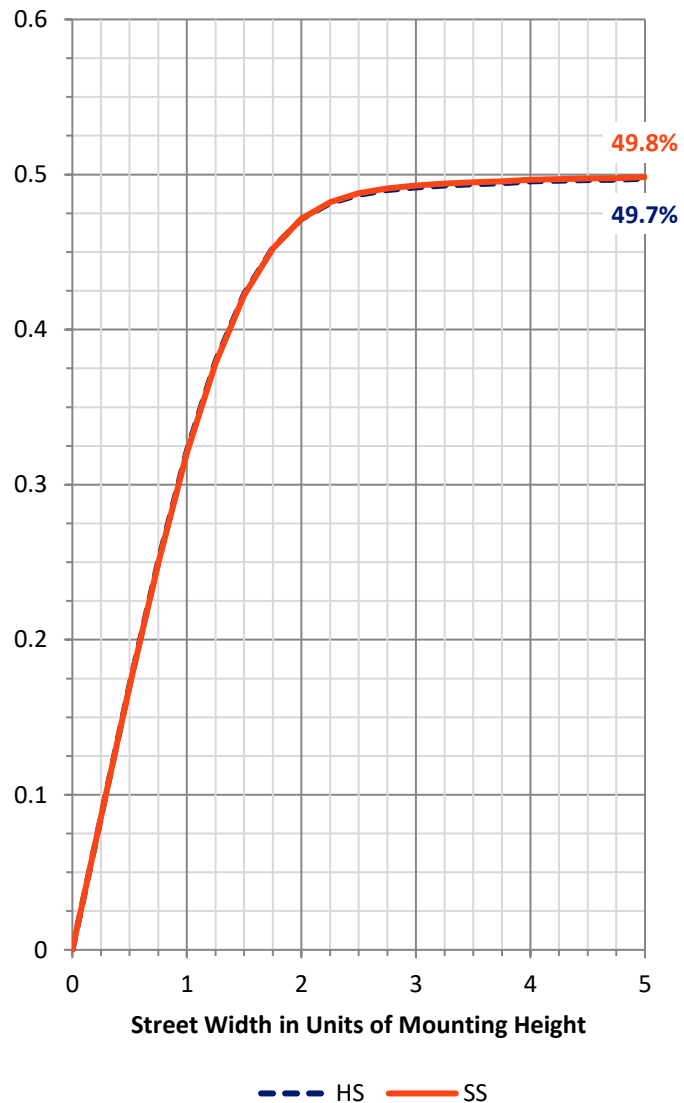
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8900.5   | 0.0    | 8900.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8900.5   | 0.0    | 8900.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 17801.0  | 0.0    | 17801.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 181.2   | 1.0       |
| 10°-20°   | 606.8   | 3.4       |
| 20°-30°   | 1183.1  | 6.6       |
| 30°-40°   | 1987.5  | 11.2      |
| 40°-50°   | 3131.5  | 17.6      |
| 50°-60°   | 4187.9  | 23.5      |
| 60°-70°   | 4071.2  | 22.9      |
| 70°-80°   | 2225.5  | 12.5      |
| 80°-90°   | 226.3   | 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°    | 17801.0 | 100.0     |
| 0°-180°   | 17801.0 | 100.0     |

**Coefficient of Utilization**



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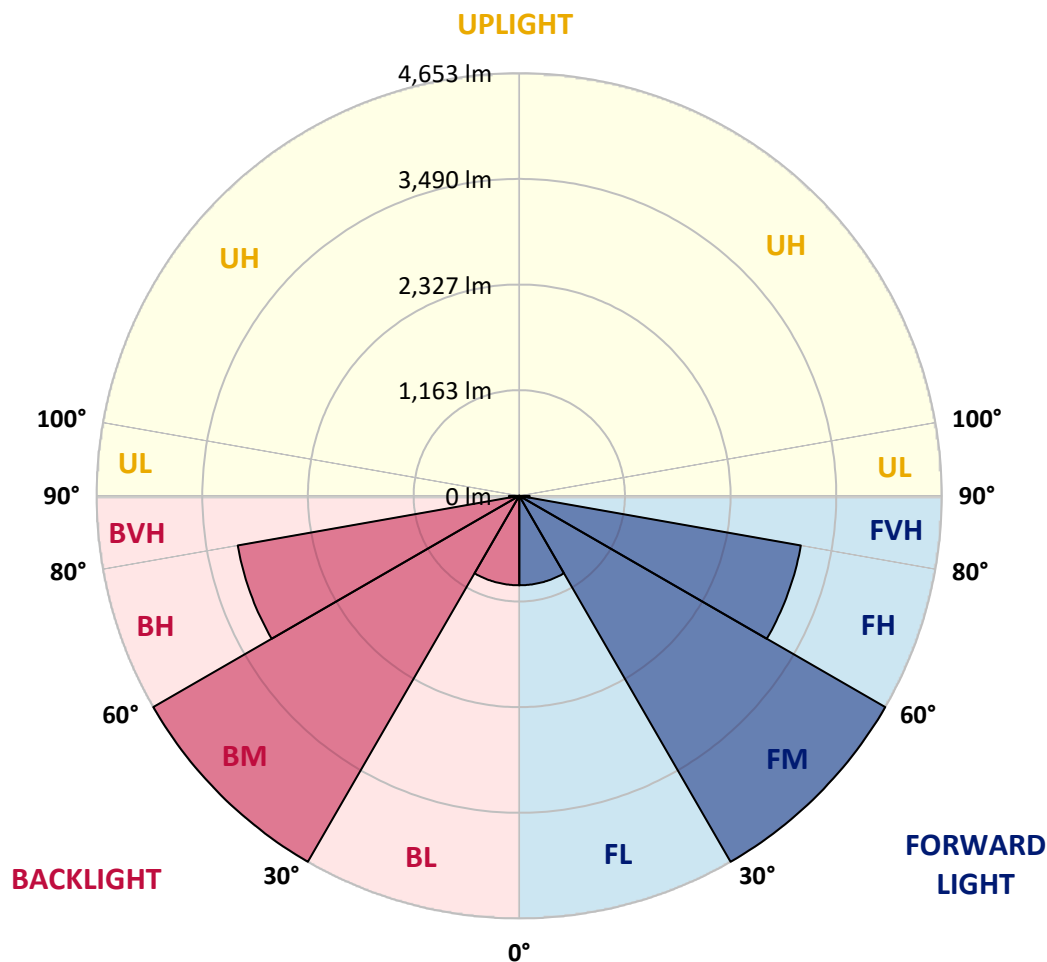
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 985.5  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 4653.5 | 26.1      |                         |      |         |
| FH   | (60°-80°)   | 3148.3 | 17.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 113.2  | 0.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 985.5  | 5.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 4653.5 | 26.1      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 3148.3 | 17.7      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 113.2  | 0.6       |                         |      | G2/225  |
| 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°    | 1850.9 | 1850.9 | 1850.9 | 1850.9 | 1850.9 | 1850.9 | 1850.9 | 1850.9 | 1850.9 | 1850.9 | 1850.9 |
| 2.5°  | 1837.8 | 1838.4 | 1841.3 | 1844.9 | 1847.9 | 1855.7 | 1857.5 | 1860.4 | 1861.6 | 1864.6 | 1864.6 |
| 5°    | 1821.6 | 1822.8 | 1830.0 | 1839.5 | 1850.3 | 1869.4 | 1883.1 | 1898.6 | 1906.4 | 1914.7 | 1914.2 |
| 7.5°  | 1819.8 | 1822.8 | 1833.0 | 1848.5 | 1866.4 | 1898.0 | 1926.7 | 1957.7 | 1978.6 | 1997.7 | 1996.5 |
| 10°   | 1838.4 | 1843.1 | 1857.5 | 1880.7 | 1907.6 | 1947.0 | 1989.4 | 2031.1 | 2067.5 | 2096.8 | 2098.0 |
| 12.5° | 1866.4 | 1872.4 | 1895.1 | 1930.3 | 1970.9 | 2021.6 | 2071.7 | 2118.9 | 2169.0 | 2212.6 | 2216.2 |
| 15°   | 1903.4 | 1911.2 | 1945.2 | 1997.7 | 2059.8 | 2120.1 | 2173.8 | 2222.1 | 2280.0 | 2340.3 | 2346.3 |
| 17.5° | 1958.3 | 1969.1 | 2013.8 | 2084.9 | 2166.6 | 2232.9 | 2289.0 | 2325.4 | 2373.7 | 2435.8 | 2447.2 |
| 20°   | 2041.9 | 2055.6 | 2112.3 | 2197.1 | 2296.7 | 2366.0 | 2409.0 | 2416.7 | 2440.6 | 2496.1 | 2509.2 |
| 22.5° | 2150.5 | 2162.4 | 2225.7 | 2326.6 | 2438.2 | 2513.4 | 2536.1 | 2505.1 | 2502.7 | 2547.4 | 2560.0 |
| 25°   | 2271.7 | 2282.4 | 2355.8 | 2469.2 | 2589.2 | 2672.2 | 2671.6 | 2611.3 | 2569.5 | 2604.1 | 2617.3 |
| 27.5° | 2407.8 | 2424.5 | 2494.9 | 2614.3 | 2742.6 | 2824.4 | 2819.6 | 2726.5 | 2647.1 | 2656.1 | 2667.4 |
| 30°   | 2564.1 | 2582.6 | 2651.3 | 2772.4 | 2900.8 | 2980.8 | 2974.8 | 2851.8 | 2732.5 | 2708.6 | 2716.9 |
| 32.5° | 2758.1 | 2780.2 | 2845.3 | 2964.6 | 3078.0 | 3150.3 | 3133.0 | 2987.9 | 2835.1 | 2783.2 | 2791.0 |
| 35°   | 2991.5 | 3004.6 | 3073.3 | 3190.9 | 3282.8 | 3332.3 | 3295.9 | 3145.5 | 2965.2 | 2902.6 | 2902.6 |
| 37.5° | 3227.9 | 3238.0 | 3315.0 | 3429.0 | 3517.9 | 3544.2 | 3473.2 | 3318.0 | 3135.3 | 3046.4 | 3048.2 |
| 40°   | 3454.7 | 3482.1 | 3568.7 | 3685.7 | 3773.4 | 3780.6 | 3686.3 | 3515.0 | 3324.6 | 3232.6 | 3243.4 |
| 42.5° | 3691.6 | 3718.5 | 3821.7 | 3954.2 | 4031.8 | 4043.8 | 3933.4 | 3735.8 | 3538.2 | 3463.6 | 3475.6 |
| 45°   | 3902.9 | 3924.4 | 4043.8 | 4197.8 | 4294.5 | 4325.5 | 4194.8 | 3988.9 | 3769.2 | 3696.4 | 3699.4 |
| 47.5° | 4050.3 | 4078.4 | 4209.7 | 4391.2 | 4532.0 | 4579.8 | 4451.4 | 4235.4 | 3996.6 | 3908.3 | 3916.0 |
| 50°   | 4184.0 | 4199.0 | 4332.1 | 4530.2 | 4709.3 | 4807.8 | 4697.9 | 4478.9 | 4226.4 | 4132.7 | 4141.1 |
| 52.5° | 4258.6 | 4277.7 | 4406.7 | 4613.2 | 4825.1 | 4983.8 | 4917.0 | 4697.9 | 4448.5 | 4357.1 | 4367.3 |
| 55°   | 4206.7 | 4221.0 | 4375.6 | 4631.7 | 4896.7 | 5092.5 | 5102.6 | 4912.2 | 4666.3 | 4586.3 | 4615.0 |
| 57.5° | 3970.4 | 3988.3 | 4176.9 | 4512.3 | 4905.7 | 5165.9 | 5242.3 | 5111.0 | 4869.8 | 4804.8 | 4821.5 |
| 60°   | 3600.9 | 3612.2 | 3813.4 | 4190.6 | 4731.4 | 5196.3 | 5331.2 | 5273.3 | 5069.2 | 5004.1 | 5026.8 |
| 62.5° | 2942.6 | 2959.3 | 3199.8 | 3705.4 | 4363.1 | 5106.2 | 5417.2 | 5407.6 | 5254.8 | 5195.1 | 5215.4 |
| 65°   | 2011.4 | 2040.7 | 2306.9 | 2946.1 | 3795.5 | 4830.4 | 5495.4 | 5564.0 | 5419.0 | 5343.8 | 5370.6 |
| 67.5° | 1214.6 | 1236.1 | 1428.9 | 1945.2 | 2904.4 | 4274.2 | 5414.8 | 5741.9 | 5534.7 | 5413.6 | 5435.7 |
| 68°   | 1085.7 | 1105.4 | 1266.6 | 1755.4 | 2686.5 | 4117.2 | 5341.4 | 5762.2 | 5547.3 | 5412.4 | 5432.1 |
| 70°   | 656.0  | 669.1  | 777.1  | 1085.1 | 1791.2 | 3266.1 | 4840.6 | 5745.4 | 5627.3 | 5429.1 | 5440.4 |
| 72.5° | 427.4  | 431.5  | 449.4  | 556.9  | 915.0  | 1826.4 | 3633.1 | 5353.9 | 5747.2 | 5526.4 | 5524.6 |
| 75°   | 355.1  | 352.7  | 354.5  | 367.1  | 451.2  | 801.0  | 2123.1 | 4229.4 | 5478.6 | 5373.0 | 5335.4 |
| 77.5° | 300.2  | 298.4  | 297.8  | 298.4  | 302.0  | 386.8  | 921.6  | 2634.6 | 4192.4 | 4752.9 | 4786.3 |
| 80°   | 242.9  | 240.5  | 248.3  | 244.7  | 234.0  | 240.5  | 386.2  | 1095.8 | 1976.2 | 2126.0 | 1992.3 |
| 82.5° | 176.7  | 167.7  | 201.1  | 191.6  | 182.6  | 169.5  | 213.1  | 353.9  | 471.5  | 323.5  | 227.4  |
| 85°   | 136.1  | 126.5  | 152.8  | 146.8  | 125.3  | 86.5   | 126.5  | 173.1  | 191.0  | 109.2  | 85.9   |
| 87.5° | 55.5   | 58.5   | 110.4  | 87.1   | 73.4   | 41.8   | 51.9   | 69.2   | 93.1   | 46.6   | 35.8   |
| 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)