

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: P451787

Luminaire Tested: **GLAN-SA2D-722-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451787  
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-SA2D-722-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11969 lumens  
Efficiency: N/A  
Efficacy: 95.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 125  
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



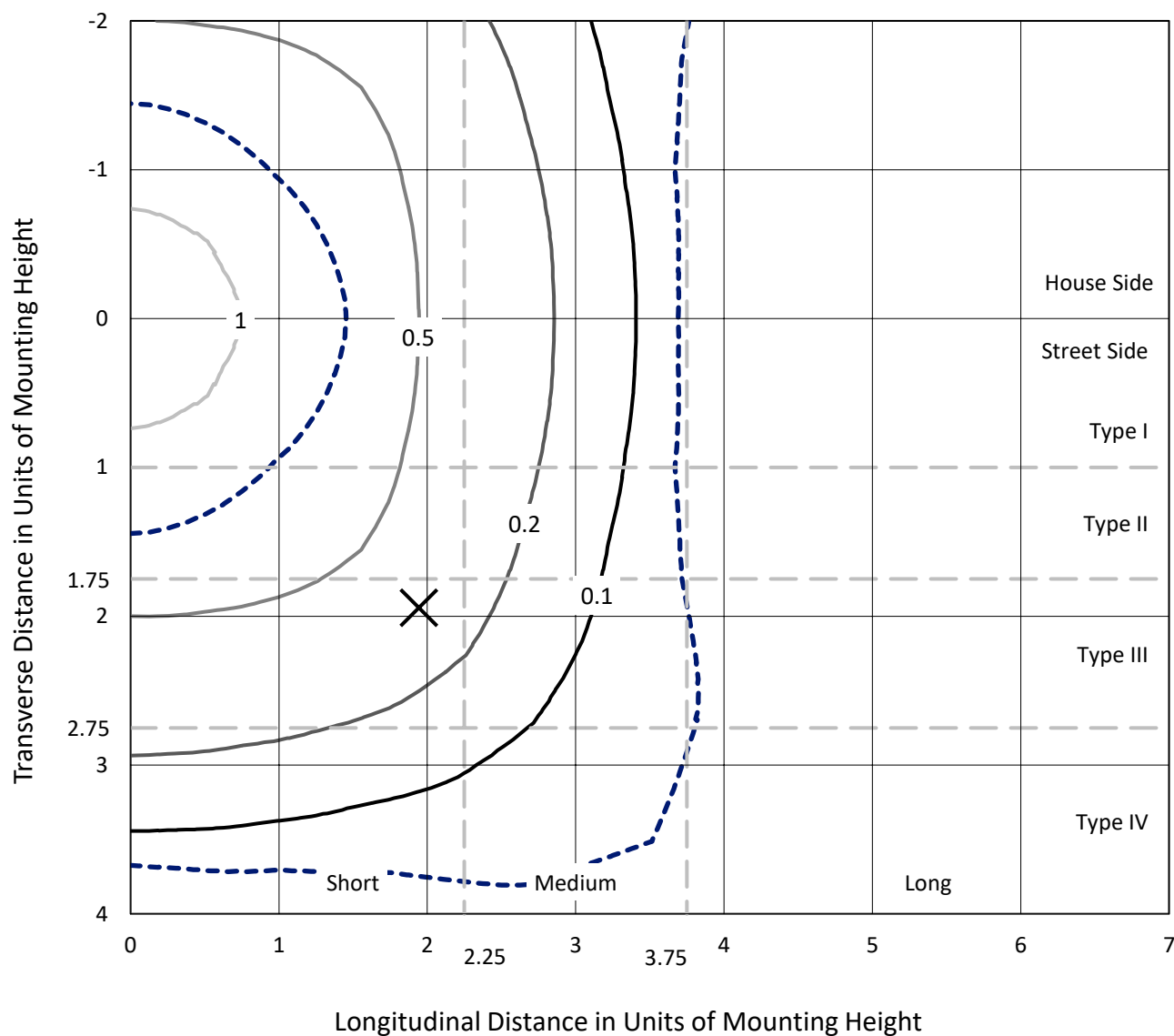
REPORT NUMBER: P451787

CATALOG NUMBER: GLAN-SA2D-722-U-5WQ

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



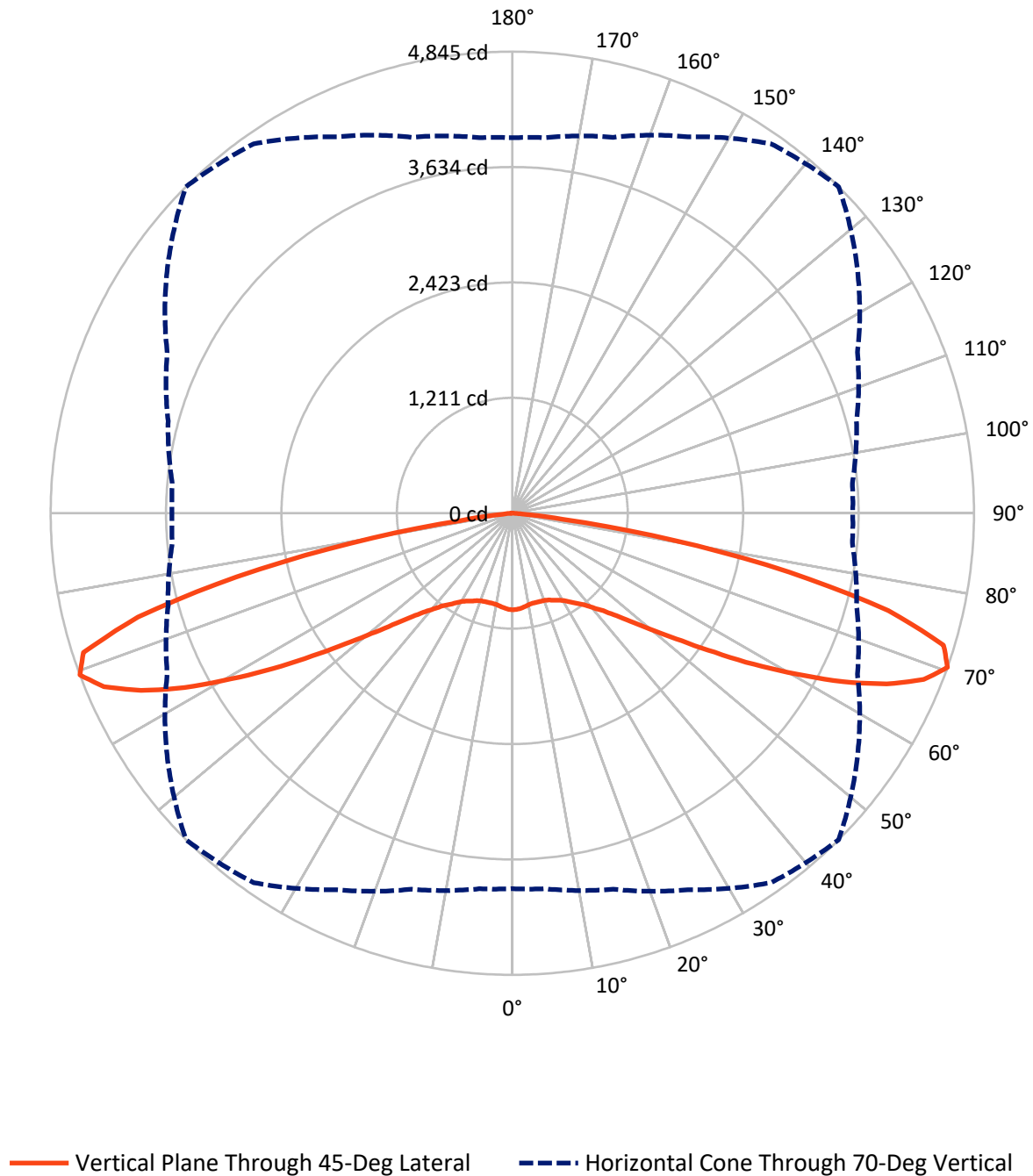
Based on 25 foot mounting height. Maximum calculated value = 1.6 fc

Type V - Short - N/A

REPORT NUMBER: P451787

CATALOG NUMBER: GLAN-SA2D-722-U-5WQ

## Luminous Intensity Polar Plot



REPORT NUMBER: P451787

CATALOG NUMBER: GLAN-SA2D-722-U-5WQ

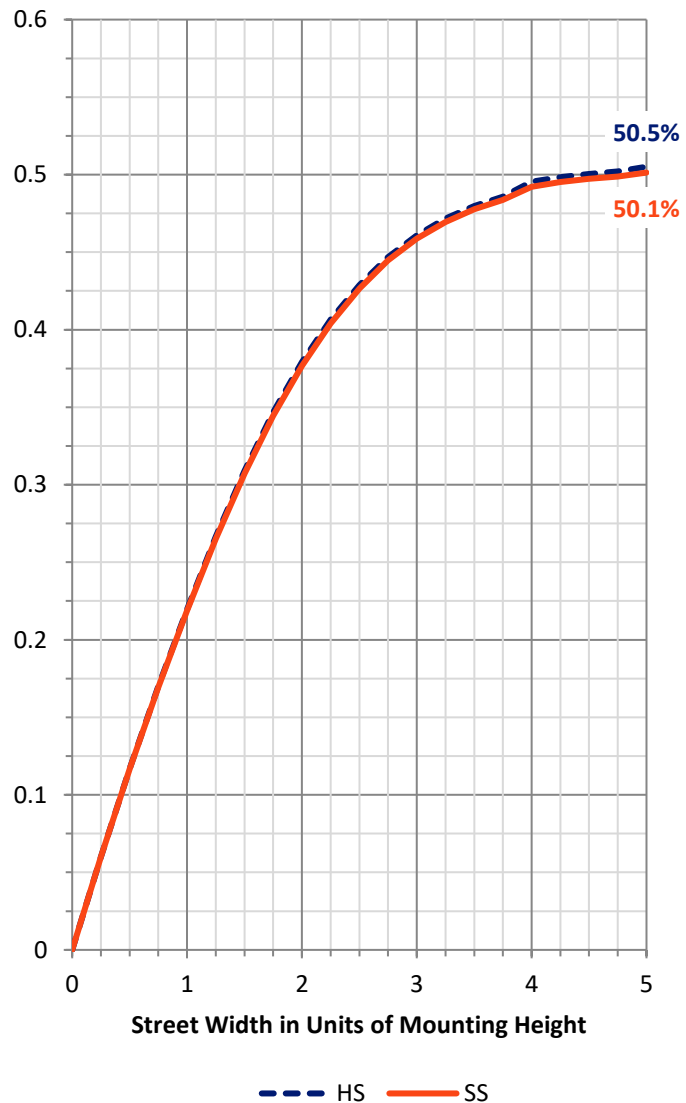
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5984.5   | 0.0    | 5984.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5984.5   | 0.0    | 5984.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 11969.0  | 0.0    | 11969.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 94.8    | 0.8       |
| 10°-20°   | 277.4   | 2.3       |
| 20°-30°   | 472.7   | 3.9       |
| 30°-40°   | 732.6   | 6.1       |
| 40°-50°   | 1233.1  | 10.3      |
| 50°-60°   | 2243.6  | 18.7      |
| 60°-70°   | 3798.4  | 31.7      |
| 70°-80°   | 2940.1  | 24.6      |
| 80°-90°   | 176.2   | 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°    | 11969.0 | 100.0     |
| 0°-180°   | 11969.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P451787

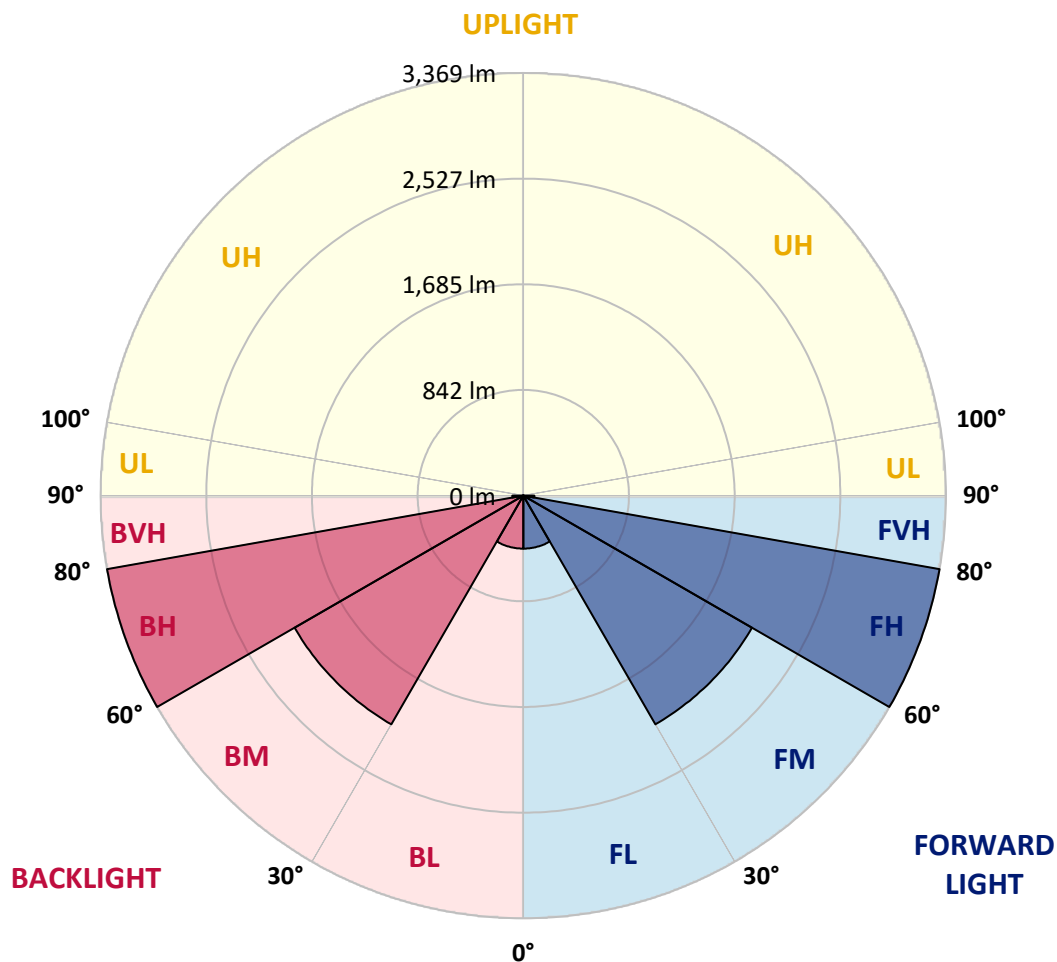
CATALOG NUMBER: GLAN-SA2D-722-U-5WQ

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 422.4  | 3.5       |                         |      |         |
| FM   | (30°-60°)   | 2104.7 | 17.6      |                         |      |         |
| FH   | (60°-80°)   | 3369.3 | 28.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 88.1   | 0.7       |                         |      | G1/100  |
| BL   | (0°-30°)    | 422.4  | 3.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2104.7 | 17.6      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 3369.3 | 28.1      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 88.1   | 0.7       |                         |      | G1/100  |
| 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





REPORT NUMBER: P451787

CATALOG NUMBER: GLAN-SA2D-722-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1013.3 | 1013.3 | 1013.3 | 1013.3 | 1013.3 | 1013.3 | 1013.3 | 1013.3 | 1013.3 | 1013.3 | 1013.3 |
| 2.5°  | 1010.8 | 1011.4 | 1011.4 | 1010.2 | 1009.5 | 1009.5 | 1008.9 | 1008.9 | 1010.8 | 1011.4 | 1012.1 |
| 5°    | 1001.9 | 1001.9 | 1001.9 | 1001.3 | 1000.0 | 1000.0 | 998.8  | 998.8  | 999.4  | 1001.3 | 1000.0 |
| 7.5°  | 989.9  | 991.2  | 991.2  | 988.7  | 986.8  | 986.8  | 986.1  | 986.8  | 987.4  | 989.3  | 988.7  |
| 10°   | 986.1  | 986.8  | 983.6  | 979.2  | 976.0  | 974.1  | 974.8  | 976.0  | 979.2  | 980.5  | 981.1  |
| 12.5° | 988.7  | 988.7  | 983.0  | 976.7  | 971.0  | 968.4  | 967.8  | 972.2  | 977.9  | 981.7  | 983.0  |
| 15°   | 991.8  | 990.6  | 983.6  | 975.4  | 969.7  | 969.1  | 968.4  | 971.6  | 979.8  | 987.4  | 988.0  |
| 17.5° | 993.7  | 993.1  | 984.2  | 974.1  | 971.0  | 971.0  | 970.3  | 972.9  | 981.7  | 991.2  | 991.8  |
| 20°   | 1000.0 | 998.2  | 988.0  | 977.3  | 974.8  | 976.0  | 974.1  | 977.3  | 986.8  | 998.2  | 1000.7 |
| 22.5° | 1012.7 | 1010.8 | 1000.7 | 989.9  | 988.7  | 988.7  | 988.0  | 991.2  | 1001.3 | 1013.3 | 1015.2 |
| 25°   | 1027.9 | 1026.0 | 1016.5 | 1008.9 | 1010.2 | 1012.7 | 1011.4 | 1012.1 | 1020.3 | 1030.4 | 1033.6 |
| 27.5° | 1048.1 | 1044.9 | 1036.7 | 1030.4 | 1034.2 | 1034.2 | 1034.2 | 1033.6 | 1038.6 | 1048.1 | 1051.3 |
| 30°   | 1072.7 | 1071.5 | 1062.6 | 1062.0 | 1065.2 | 1062.0 | 1062.0 | 1062.6 | 1063.3 | 1072.1 | 1075.3 |
| 32.5° | 1105.0 | 1102.5 | 1098.0 | 1096.8 | 1105.6 | 1108.1 | 1099.3 | 1091.1 | 1095.5 | 1104.4 | 1106.2 |
| 35°   | 1158.1 | 1154.3 | 1148.0 | 1141.0 | 1148.0 | 1160.0 | 1141.0 | 1134.7 | 1146.1 | 1158.1 | 1159.3 |
| 37.5° | 1230.1 | 1228.3 | 1218.1 | 1205.5 | 1204.9 | 1217.5 | 1197.9 | 1197.3 | 1218.8 | 1233.3 | 1235.2 |
| 40°   | 1320.5 | 1322.4 | 1309.8 | 1297.8 | 1291.5 | 1301.6 | 1286.4 | 1292.1 | 1313.0 | 1329.4 | 1328.1 |
| 42.5° | 1447.6 | 1440.6 | 1421.1 | 1409.7 | 1402.7 | 1398.9 | 1395.1 | 1404.0 | 1427.4 | 1445.1 | 1459.0 |
| 45°   | 1596.2 | 1593.6 | 1569.0 | 1555.1 | 1539.9 | 1534.2 | 1532.9 | 1548.7 | 1577.2 | 1598.7 | 1600.6 |
| 47.5° | 1764.3 | 1758.6 | 1742.8 | 1728.3 | 1722.6 | 1715.6 | 1709.3 | 1721.3 | 1749.8 | 1764.9 | 1769.4 |
| 50°   | 1937.5 | 1938.8 | 1938.8 | 1936.2 | 1941.9 | 1943.2 | 1926.1 | 1930.6 | 1946.4 | 1945.1 | 1943.8 |
| 52.5° | 2135.4 | 2142.3 | 2175.2 | 2178.4 | 2205.5 | 2223.9 | 2192.9 | 2174.6 | 2168.9 | 2134.7 | 2137.3 |
| 55°   | 2368.0 | 2374.3 | 2423.6 | 2472.9 | 2546.3 | 2577.2 | 2512.1 | 2455.2 | 2414.8 | 2362.9 | 2365.5 |
| 57.5° | 2658.2 | 2661.3 | 2708.1 | 2802.9 | 2919.2 | 2991.9 | 2877.5 | 2765.0 | 2682.8 | 2633.5 | 2613.9 |
| 60°   | 2970.4 | 2973.6 | 3041.9 | 3157.5 | 3338.3 | 3426.8 | 3285.2 | 3101.3 | 2997.6 | 2922.4 | 2927.4 |
| 62.5° | 3345.3 | 3357.9 | 3419.3 | 3578.6 | 3797.9 | 3897.2 | 3709.4 | 3463.5 | 3323.2 | 3229.6 | 3233.4 |
| 65°   | 3746.7 | 3768.2 | 3835.2 | 4010.3 | 4212.6 | 4319.4 | 4089.3 | 3805.5 | 3631.0 | 3516.6 | 3528.6 |
| 67.5° | 4007.1 | 4026.1 | 4122.8 | 4316.3 | 4568.5 | 4657.0 | 4359.9 | 4029.3 | 3811.2 | 3674.6 | 3649.4 |
| 70°   | 3940.8 | 3956.6 | 4085.5 | 4359.9 | 4733.5 | 4845.4 | 4424.4 | 3996.4 | 3739.7 | 3582.3 | 3572.2 |
| 72.5° | 3478.7 | 3445.8 | 3634.2 | 4028.0 | 4545.1 | 4732.8 | 4221.4 | 3650.0 | 3327.0 | 3165.1 | 3146.2 |
| 75°   | 2305.4 | 2376.9 | 2655.0 | 3119.0 | 3845.3 | 4077.9 | 3603.2 | 2930.6 | 2524.1 | 2389.5 | 2368.6 |
| 77.5° | 770.6  | 825.6  | 1072.7 | 1768.1 | 2621.5 | 2971.1 | 2625.3 | 1916.7 | 1355.9 | 1092.3 | 1097.4 |
| 80°   | 204.2  | 201.7  | 261.1  | 486.1  | 1132.8 | 1720.7 | 1318.6 | 649.2  | 355.3  | 257.3  | 244.0  |
| 82.5° | 73.3   | 82.2   | 105.6  | 134.6  | 300.3  | 534.8  | 377.4  | 182.1  | 133.4  | 98.6   | 95.5   |
| 85°   | 32.2   | 31.6   | 45.5   | 53.7   | 75.2   | 99.9   | 88.5   | 77.1   | 67.6   | 44.9   | 41.7   |
| 87.5° | 7.0    | 7.0    | 10.7   | 8.2    | 13.3   | 13.3   | 16.4   | 19.6   | 20.2   | 13.3   | 10.7   |
| 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)