

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: P529031

Luminaire Tested: **GLAN-SA4A-830-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4A-830-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7499 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

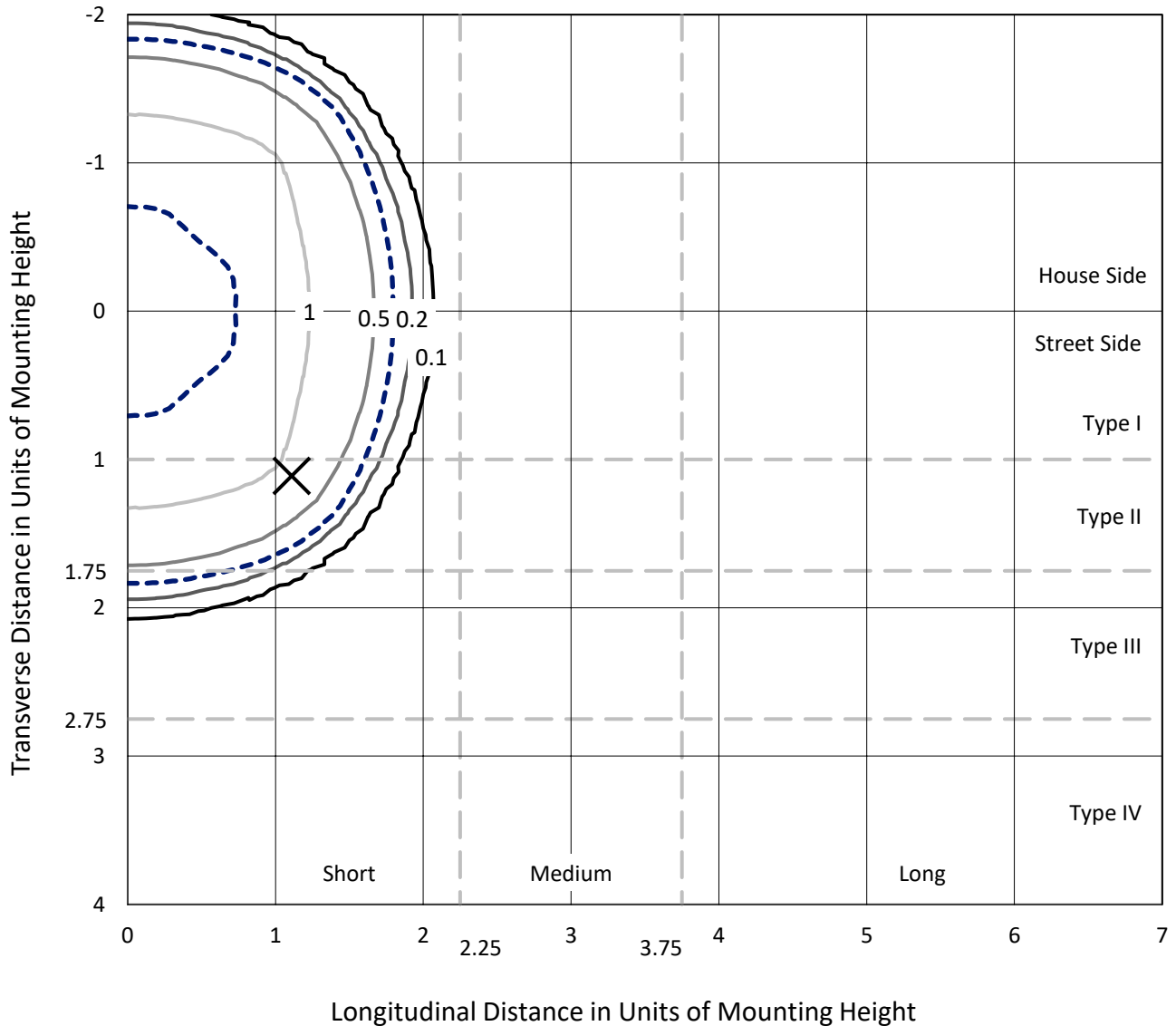
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

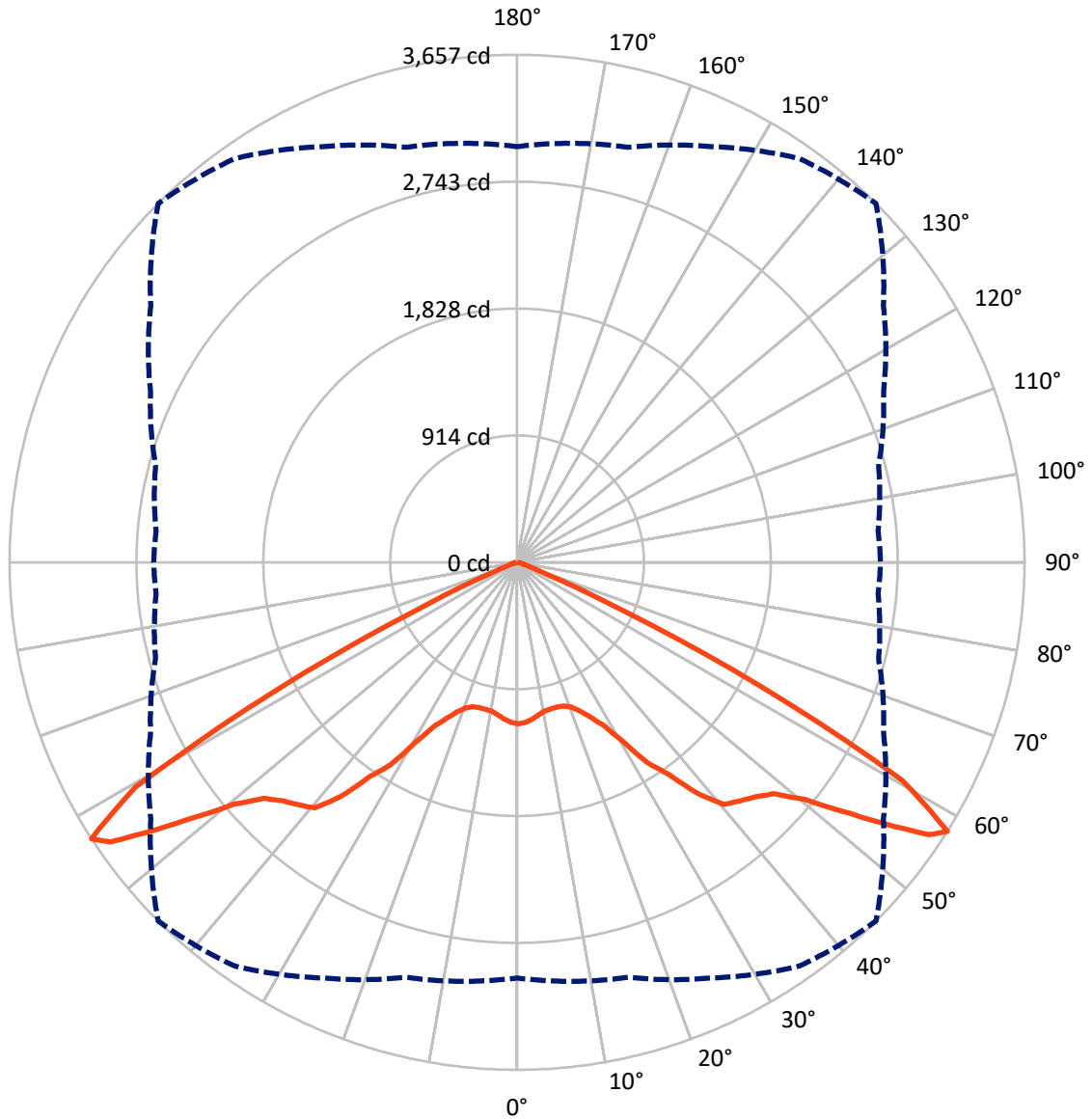
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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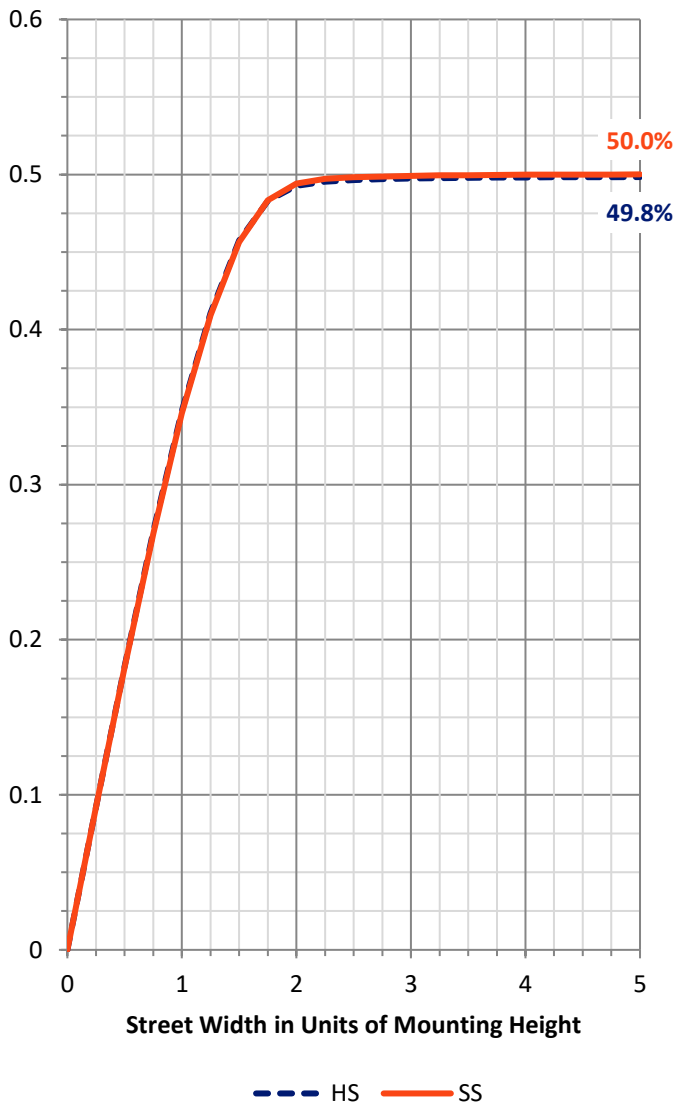
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3749.5 | 0.0 | 3749.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3749.5 | 0.0 | 3749.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7499.0 | 0.0 | 7499.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 106.9 | 1.4 |
| 10°-20° | 309.0 | 4.1 |
| 20°-30° | 570.3 | 7.6 |
| 30°-40° | 1121.6 | 15.0 |
| 40°-50° | 1826.7 | 24.4 |
| 50°-60° | 2605.1 | 34.7 |
| 60°-70° | 902.0 | 12.0 |
| 70°-80° | 48.4 | 0.6 |
| 80°-90° | 9.1 | 0.1 |
| 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° | 7499.0 | 100.0 |
| 0°-180° | 7499.0 | 100.0 |



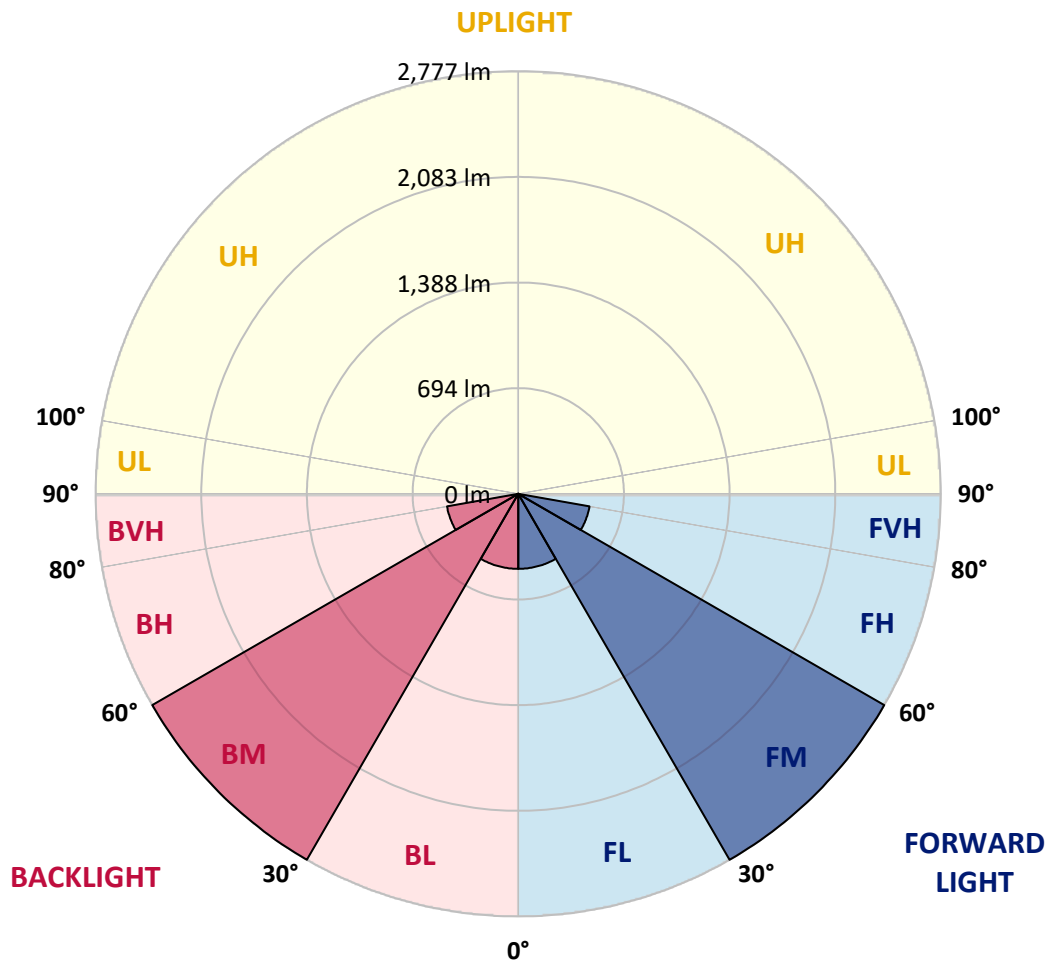
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 493.1 | 6.6 | | | |
| FM (30°-60°) | 2776.7 | 37.0 | | | |
| FH (60°-80°) | 475.2 | 6.3 | | | G0/660 |
| FVH (80°-90°) | 4.5 | 0.1 | | | G0/10 |
| BL (0°-30°) | 493.1 | 6.6 | B1/500 | | |
| BM (30°-60°) | 2776.7 | 37.0 | B3/5000 | | |
| BH (60°-80°) | 475.2 | 6.3 | B1/500 | | G0/660 |
| BVH (80°-90°) | 4.5 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1163.2 | 1163.2 | 1163.2 | 1163.2 | 1163.2 | 1163.2 | 1163.2 | 1163.2 | 1163.2 | 1163.2 | 1163.2 |
| 2.5° | 1160.0 | 1166.3 | 1158.5 | 1155.4 | 1153.8 | 1153.8 | 1149.1 | 1149.1 | 1147.5 | 1149.1 | 1142.8 |
| 5° | 1141.3 | 1147.5 | 1147.5 | 1146.0 | 1136.6 | 1135.0 | 1130.3 | 1127.2 | 1128.8 | 1122.5 | 1127.2 |
| 7.5° | 1122.5 | 1127.2 | 1121.0 | 1119.4 | 1116.3 | 1110.0 | 1108.5 | 1094.4 | 1095.9 | 1095.9 | 1099.1 |
| 10° | 1119.4 | 1117.8 | 1108.5 | 1100.6 | 1091.3 | 1089.7 | 1085.0 | 1081.9 | 1081.9 | 1080.3 | 1085.0 |
| 12.5° | 1119.4 | 1111.6 | 1110.0 | 1092.8 | 1077.2 | 1083.4 | 1070.9 | 1063.1 | 1074.1 | 1077.2 | 1083.4 |
| 15° | 1117.8 | 1125.7 | 1099.1 | 1091.3 | 1080.3 | 1081.9 | 1070.9 | 1063.1 | 1069.4 | 1072.5 | 1077.2 |
| 17.5° | 1127.2 | 1122.5 | 1114.7 | 1099.1 | 1094.4 | 1088.1 | 1074.1 | 1067.8 | 1067.8 | 1075.6 | 1077.2 |
| 20° | 1152.2 | 1139.7 | 1124.1 | 1116.3 | 1121.0 | 1113.1 | 1095.9 | 1072.5 | 1078.7 | 1085.0 | 1089.7 |
| 22.5° | 1175.7 | 1166.3 | 1155.4 | 1150.7 | 1177.2 | 1164.7 | 1135.0 | 1108.5 | 1099.1 | 1110.0 | 1117.8 |
| 25° | 1221.0 | 1221.0 | 1200.7 | 1206.9 | 1236.7 | 1238.2 | 1203.8 | 1156.9 | 1150.7 | 1155.4 | 1158.5 |
| 27.5° | 1313.3 | 1318.0 | 1300.8 | 1307.0 | 1319.5 | 1330.5 | 1300.8 | 1261.7 | 1247.6 | 1246.0 | 1250.7 |
| 30° | 1413.3 | 1422.7 | 1421.1 | 1447.7 | 1483.7 | 1489.9 | 1446.1 | 1382.1 | 1339.8 | 1332.0 | 1338.3 |
| 32.5° | 1544.6 | 1549.3 | 1546.2 | 1577.5 | 1674.4 | 1719.7 | 1605.6 | 1514.9 | 1458.7 | 1472.7 | 1458.7 |
| 35° | 1791.7 | 1787.0 | 1752.6 | 1758.8 | 1838.6 | 1871.4 | 1762.0 | 1704.1 | 1677.5 | 1705.7 | 1699.4 |
| 37.5° | 2004.3 | 1987.1 | 1958.9 | 1999.6 | 2082.5 | 2112.2 | 1998.0 | 1896.4 | 1847.9 | 1894.8 | 1915.2 |
| 40° | 2184.1 | 2140.3 | 2101.2 | 2141.9 | 2252.9 | 2293.5 | 2126.2 | 2043.4 | 2024.6 | 2059.0 | 2102.8 |
| 42.5° | 2335.7 | 2307.6 | 2256.0 | 2259.1 | 2332.6 | 2351.4 | 2216.9 | 2168.4 | 2149.7 | 2204.4 | 2226.3 |
| 45° | 2443.6 | 2417.0 | 2368.6 | 2365.4 | 2421.7 | 2409.2 | 2288.8 | 2256.0 | 2266.9 | 2302.9 | 2313.8 |
| 47.5° | 2498.3 | 2512.4 | 2484.3 | 2492.1 | 2521.8 | 2492.1 | 2396.7 | 2396.7 | 2371.7 | 2393.6 | 2382.6 |
| 50° | 2656.2 | 2612.5 | 2648.4 | 2648.4 | 2679.7 | 2682.8 | 2587.4 | 2553.0 | 2485.8 | 2448.3 | 2448.3 |
| 52.5° | 2840.7 | 2843.8 | 2857.9 | 2909.5 | 2962.7 | 3008.0 | 2872.0 | 2725.0 | 2612.5 | 2564.0 | 2557.7 |
| 55° | 2992.4 | 3023.6 | 3079.9 | 3176.8 | 3330.1 | 3392.6 | 3158.1 | 2895.4 | 2757.8 | 2682.8 | 2667.2 |
| 56° | 3075.2 | 3045.5 | 3142.4 | 3275.3 | 3475.4 | 3556.7 | 3205.0 | 2929.8 | 2778.2 | 2693.7 | 2692.2 |
| 57.5° | 2995.5 | 3028.3 | 3095.5 | 3305.0 | 3550.5 | 3656.8 | 3222.2 | 2914.2 | 2696.9 | 2610.9 | 2618.7 |
| 60° | 2365.4 | 2396.7 | 2487.4 | 2721.9 | 3106.5 | 3189.3 | 2726.6 | 2403.0 | 2209.1 | 2085.6 | 2087.1 |
| 62.5° | 1338.3 | 1361.7 | 1432.1 | 1649.4 | 1888.6 | 1968.3 | 1699.4 | 1483.7 | 1349.2 | 1280.4 | 1258.5 |
| 65° | 492.5 | 483.1 | 494.0 | 605.0 | 752.0 | 819.2 | 706.7 | 597.2 | 526.9 | 501.9 | 492.5 |
| 67.5° | 184.5 | 170.4 | 159.5 | 170.4 | 214.2 | 226.7 | 207.9 | 173.5 | 162.6 | 167.3 | 170.4 |
| 70° | 114.1 | 107.9 | 86.0 | 81.3 | 79.7 | 78.2 | 82.9 | 87.6 | 100.1 | 117.3 | 120.4 |
| 72.5° | 79.7 | 75.0 | 61.0 | 57.8 | 54.7 | 53.2 | 61.0 | 67.2 | 78.2 | 90.7 | 92.2 |
| 75° | 31.3 | 32.8 | 31.3 | 34.4 | 36.0 | 37.5 | 43.8 | 48.5 | 53.2 | 53.2 | 51.6 |
| 77.5° | 6.3 | 6.3 | 9.4 | 12.5 | 15.6 | 20.3 | 29.7 | 34.4 | 36.0 | 34.4 | 29.7 |
| 80° | 0.0 | 0.0 | 3.1 | 6.3 | 12.5 | 17.2 | 26.6 | 29.7 | 32.8 | 29.7 | 23.5 |
| 82.5° | 0.0 | 0.0 | 3.1 | 7.8 | 12.5 | 15.6 | 25.0 | 31.3 | 36.0 | 32.8 | 25.0 |
| 85° | 0.0 | 0.0 | 3.1 | 6.3 | 9.4 | 10.9 | 10.9 | 7.8 | 7.8 | 4.7 | 3.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)