

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: P528091

Luminaire Tested: **GLAN-SA3A-830-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3A-830-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6511 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

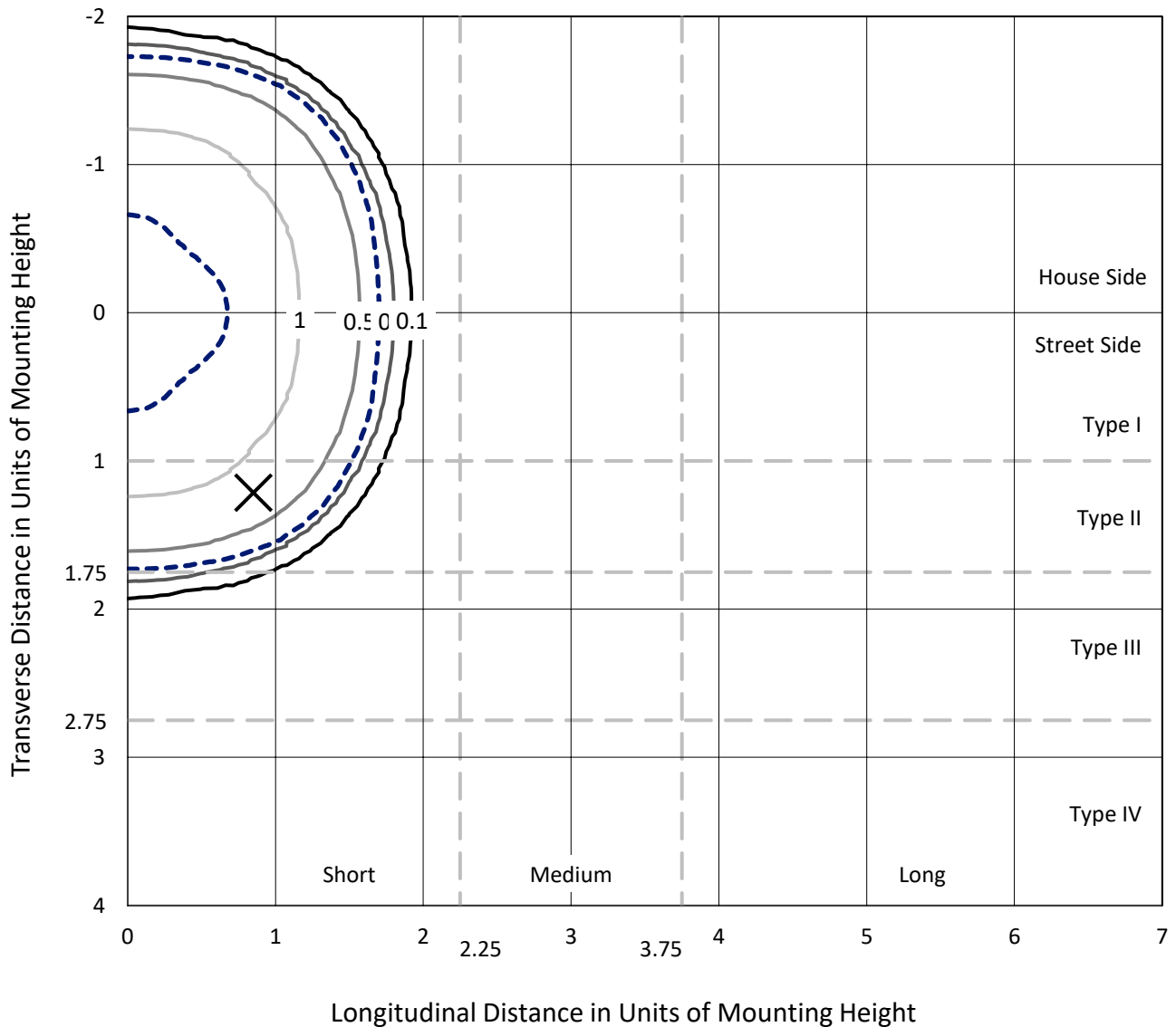
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528091
 CATALOG NUMBER: GLAN-SA3A-830-U-5MQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

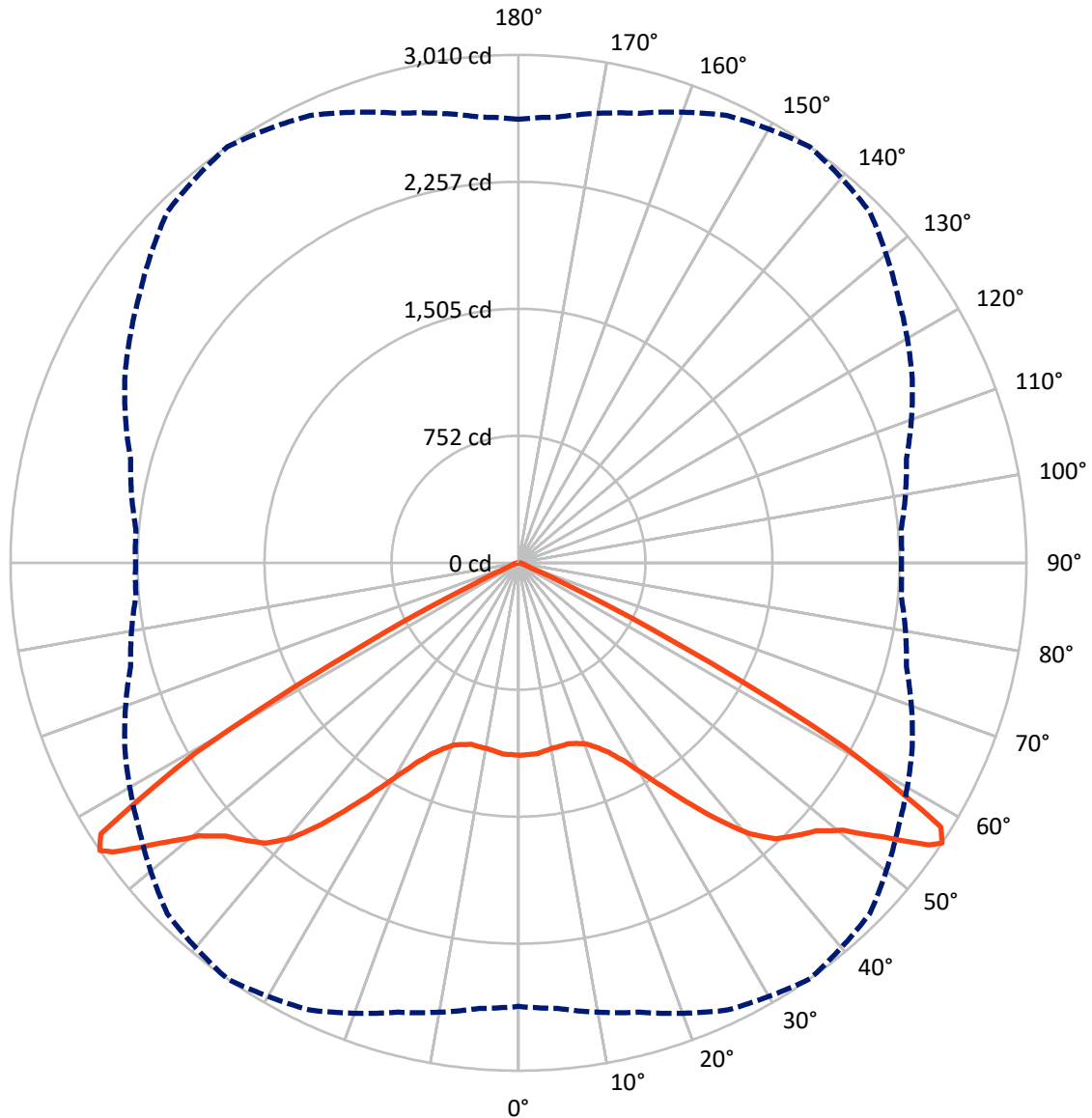
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - N/A

REPORT NUMBER: P528091
CATALOG NUMBER: GLAN-SA3A-830-U-5MQ-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P528091
 CATALOG NUMBER: GLAN-SA3A-830-U-5MQ-GRSBK

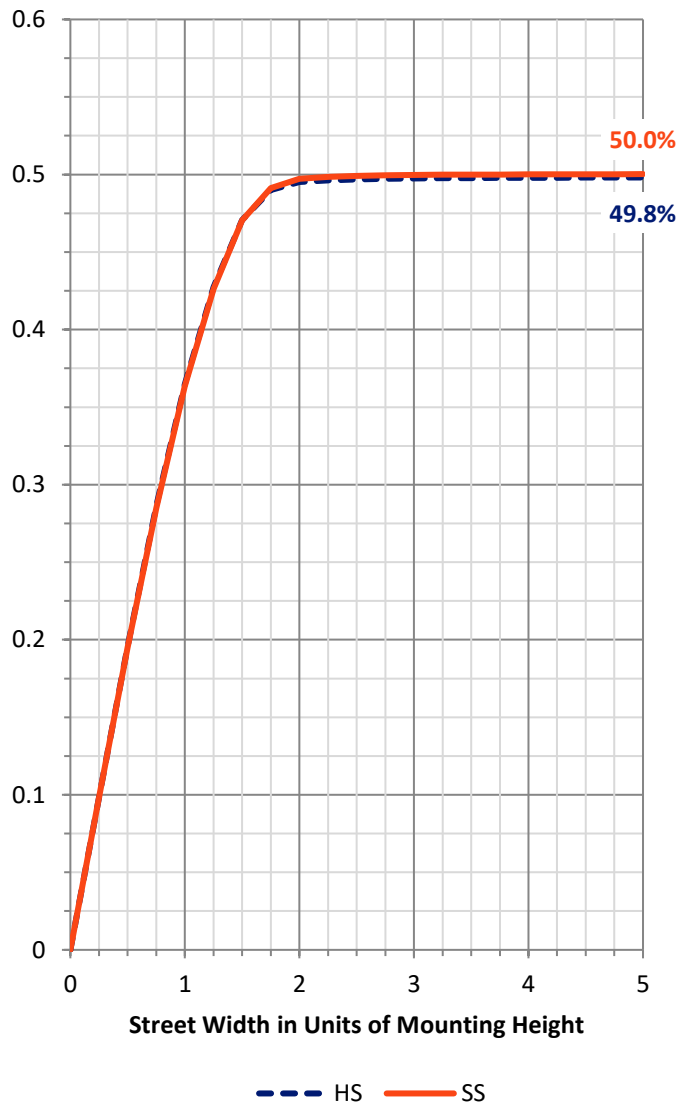
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3255.5 | 0.0 | 3255.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3255.5 | 0.0 | 3255.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6511.0 | 0.0 | 6511.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 107.2 | 1.6 |
| 10°-20° | 313.0 | 4.8 |
| 20°-30° | 566.9 | 8.7 |
| 30°-40° | 1051.2 | 16.1 |
| 40°-50° | 1725.5 | 26.5 |
| 50°-60° | 2222.9 | 34.1 |
| 60°-70° | 489.9 | 7.5 |
| 70°-80° | 28.4 | 0.4 |
| 80°-90° | 6.0 | 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° | 6511.0 | 100.0 |
| 0°-180° | 6511.0 | 100.0 |

Coefficient of Utilization

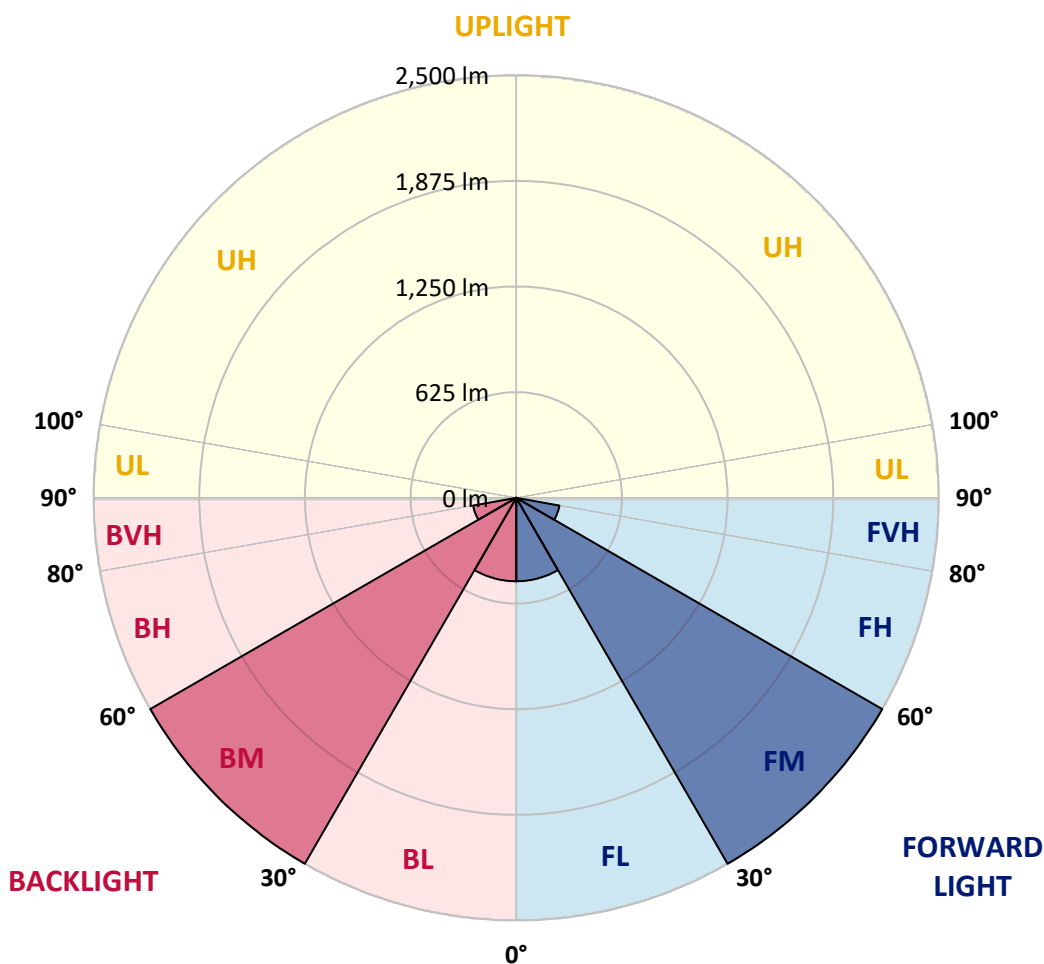


REPORT NUMBER: P528091
 CATALOG NUMBER: GLAN-SA3A-830-U-5MQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 493.6 | 7.6 | | | |
| FM (30°-60°) | 2499.8 | 38.4 | | | |
| FH (60°-80°) | 259.2 | 4.0 | | | G0/660 |
| FVH (80°-90°) | 3.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 493.6 | 7.6 | B1/500 | | |
| BM (30°-60°) | 2499.8 | 38.4 | B2/2500 | | |
| BH (60°-80°) | 259.2 | 4.0 | B1/500 | | G0/660 |
| BVH (80°-90°) | 3.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G0
 Type V Short





REPORT NUMBER: P528091

CATALOG NUMBER: GLAN-SA3A-830-U-5MQ-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 |
| 2.5° | 1143.2 | 1143.2 | 1144.4 | 1145.6 | 1137.3 | 1133.8 | 1135.0 | 1132.6 | 1131.4 | 1135.0 | 1135.0 |
| 5° | 1139.7 | 1139.7 | 1136.1 | 1137.3 | 1137.3 | 1126.7 | 1126.7 | 1129.1 | 1129.1 | 1122.0 | 1119.6 |
| 7.5° | 1130.2 | 1127.9 | 1123.2 | 1129.1 | 1125.5 | 1125.5 | 1117.3 | 1111.4 | 1109.0 | 1113.7 | 1109.0 |
| 10° | 1110.2 | 1111.4 | 1116.1 | 1118.5 | 1116.1 | 1123.2 | 1109.0 | 1100.8 | 1092.5 | 1089.0 | 1089.0 |
| 12.5° | 1100.8 | 1107.8 | 1100.8 | 1106.7 | 1114.9 | 1109.0 | 1100.8 | 1094.9 | 1083.1 | 1078.3 | 1078.3 |
| 15° | 1099.6 | 1104.3 | 1106.7 | 1114.9 | 1111.4 | 1113.7 | 1097.2 | 1090.1 | 1072.4 | 1064.2 | 1060.6 |
| 17.5° | 1098.4 | 1104.3 | 1107.8 | 1123.2 | 1125.5 | 1126.7 | 1113.7 | 1092.5 | 1077.2 | 1068.9 | 1060.6 |
| 20° | 1111.4 | 1113.7 | 1120.8 | 1136.1 | 1145.6 | 1162.1 | 1138.5 | 1116.1 | 1083.1 | 1073.6 | 1070.1 |
| 22.5° | 1127.9 | 1139.7 | 1146.8 | 1163.3 | 1188.1 | 1202.2 | 1171.5 | 1143.2 | 1109.0 | 1097.2 | 1083.1 |
| 25° | 1181.0 | 1178.6 | 1190.4 | 1224.6 | 1244.7 | 1255.3 | 1230.5 | 1189.2 | 1144.4 | 1130.2 | 1132.6 |
| 27.5° | 1247.0 | 1249.4 | 1260.0 | 1297.8 | 1327.3 | 1343.8 | 1314.3 | 1260.0 | 1216.4 | 1192.8 | 1190.4 |
| 30° | 1333.2 | 1330.8 | 1342.6 | 1393.3 | 1446.4 | 1471.2 | 1419.3 | 1355.6 | 1313.1 | 1282.4 | 1289.5 |
| 32.5° | 1424.0 | 1425.2 | 1458.2 | 1504.2 | 1590.4 | 1638.7 | 1555.0 | 1477.1 | 1413.4 | 1392.2 | 1381.5 |
| 35° | 1558.5 | 1564.4 | 1590.4 | 1661.2 | 1756.7 | 1819.3 | 1727.2 | 1634.0 | 1560.9 | 1521.9 | 1526.7 |
| 37.5° | 1724.9 | 1719.0 | 1762.6 | 1839.3 | 1939.6 | 1985.6 | 1907.7 | 1801.6 | 1727.2 | 1701.3 | 1717.8 |
| 40° | 1901.8 | 1907.7 | 1930.2 | 1999.8 | 2111.8 | 2142.5 | 2026.9 | 1969.1 | 1904.2 | 1891.2 | 1911.3 |
| 42.5° | 2078.8 | 2075.3 | 2091.8 | 2154.3 | 2235.7 | 2214.5 | 2146.1 | 2111.8 | 2065.8 | 2039.9 | 2067.0 |
| 45° | 2208.6 | 2202.7 | 2233.4 | 2275.8 | 2305.3 | 2265.2 | 2234.5 | 2222.7 | 2199.1 | 2170.8 | 2195.6 |
| 47.5° | 2334.8 | 2330.1 | 2359.6 | 2371.4 | 2373.8 | 2320.7 | 2326.6 | 2347.8 | 2288.8 | 2229.8 | 2258.1 |
| 50° | 2442.2 | 2433.9 | 2470.5 | 2496.5 | 2490.6 | 2405.6 | 2426.8 | 2405.6 | 2313.6 | 2244.0 | 2233.4 |
| 52.5° | 2621.5 | 2625.1 | 2664.0 | 2711.2 | 2697.0 | 2626.2 | 2595.6 | 2498.8 | 2380.8 | 2318.3 | 2281.7 |
| 55° | 2734.8 | 2717.1 | 2784.3 | 2934.2 | 2950.7 | 2877.5 | 2741.9 | 2599.1 | 2422.1 | 2345.4 | 2336.0 |
| 56° | 2628.6 | 2651.0 | 2757.2 | 2924.7 | 3009.7 | 2942.4 | 2745.4 | 2574.3 | 2379.7 | 2275.8 | 2268.8 |
| 57.5° | 2358.4 | 2346.6 | 2490.6 | 2719.4 | 2950.7 | 2922.4 | 2648.7 | 2397.4 | 2170.8 | 2054.0 | 2039.9 |
| 60° | 1467.7 | 1501.9 | 1628.1 | 1911.3 | 2220.4 | 2234.5 | 1963.2 | 1747.3 | 1483.0 | 1379.2 | 1404.0 |
| 62.5° | 574.6 | 545.1 | 624.1 | 835.3 | 1047.7 | 1094.9 | 992.2 | 824.7 | 677.2 | 574.6 | 567.5 |
| 65° | 133.3 | 129.8 | 146.3 | 201.7 | 282.0 | 326.8 | 310.3 | 223.0 | 164.0 | 155.7 | 143.9 |
| 67.5° | 75.5 | 75.5 | 72.0 | 72.0 | 79.0 | 83.8 | 80.2 | 79.0 | 82.6 | 86.1 | 84.9 |
| 70° | 53.1 | 51.9 | 49.6 | 50.7 | 48.4 | 48.4 | 51.9 | 57.8 | 62.5 | 62.5 | 63.7 |
| 72.5° | 31.9 | 31.9 | 31.9 | 35.4 | 35.4 | 35.4 | 38.9 | 43.7 | 44.8 | 43.7 | 42.5 |
| 75° | 14.2 | 14.2 | 16.5 | 20.1 | 22.4 | 23.6 | 27.1 | 29.5 | 31.9 | 29.5 | 27.1 |
| 77.5° | 3.5 | 3.5 | 5.9 | 8.3 | 10.6 | 13.0 | 17.7 | 21.2 | 22.4 | 21.2 | 17.7 |
| 80° | 1.2 | 1.2 | 2.4 | 5.9 | 10.6 | 13.0 | 17.7 | 18.9 | 20.1 | 17.7 | 14.2 |
| 82.5° | 1.2 | 1.2 | 2.4 | 5.9 | 8.3 | 10.6 | 14.2 | 16.5 | 17.7 | 15.3 | 14.2 |
| 85° | 0.0 | 1.2 | 2.4 | 4.7 | 7.1 | 9.4 | 9.4 | 7.1 | 5.9 | 3.5 | 4.7 |
| 87.5° | 0.0 | 0.0 | 1.2 | 1.2 | 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)