

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: P382936

Luminaire Tested: **GAN-SA3A-735-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-735-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13959.2 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

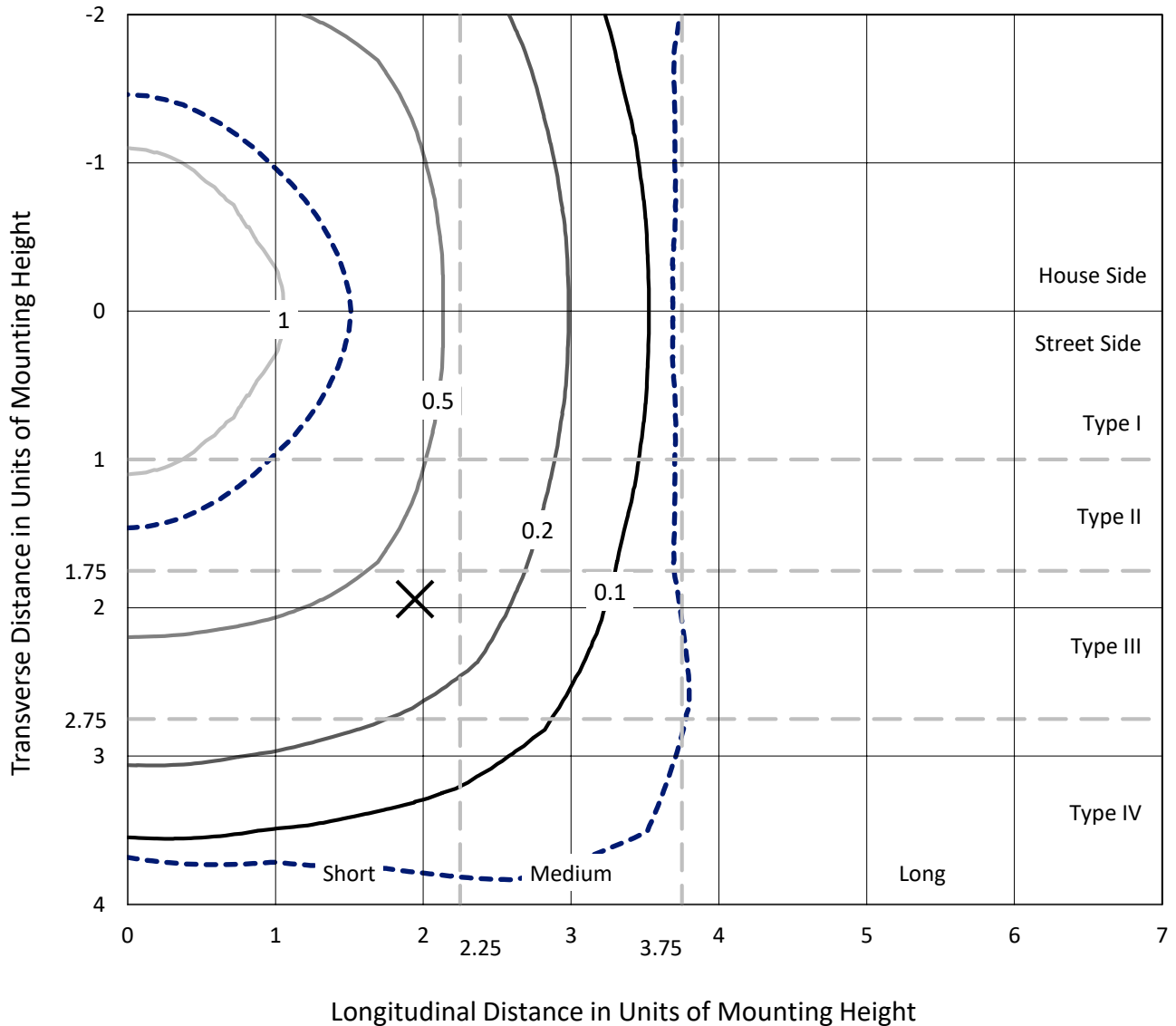
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382936
 CATALOG NUMBER: GAN-SA3A-735-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

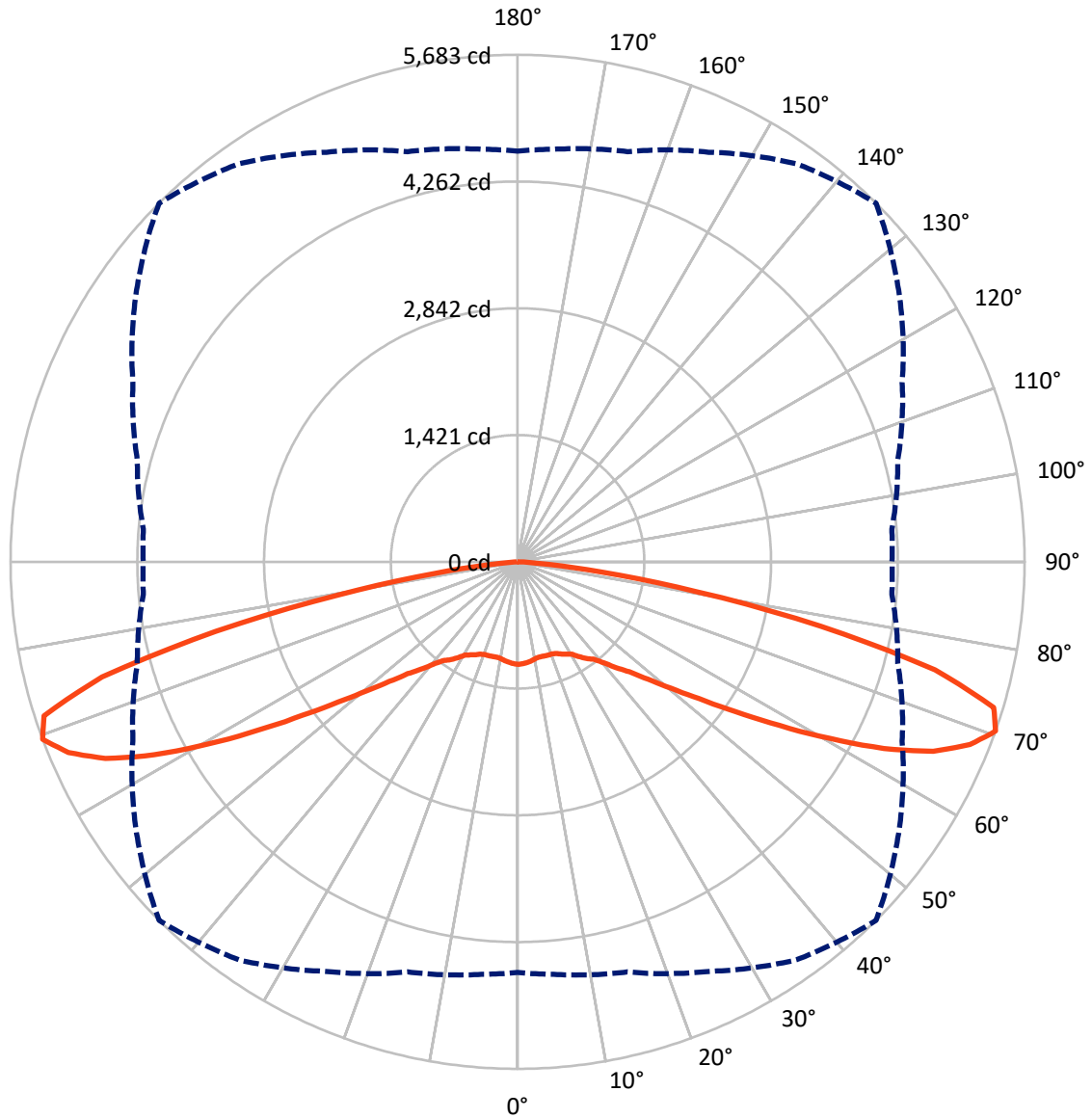
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P382936
CATALOG NUMBER: GAN-SA3A-735-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P382936
 CATALOG NUMBER: GAN-SA3A-735-U-5WQ

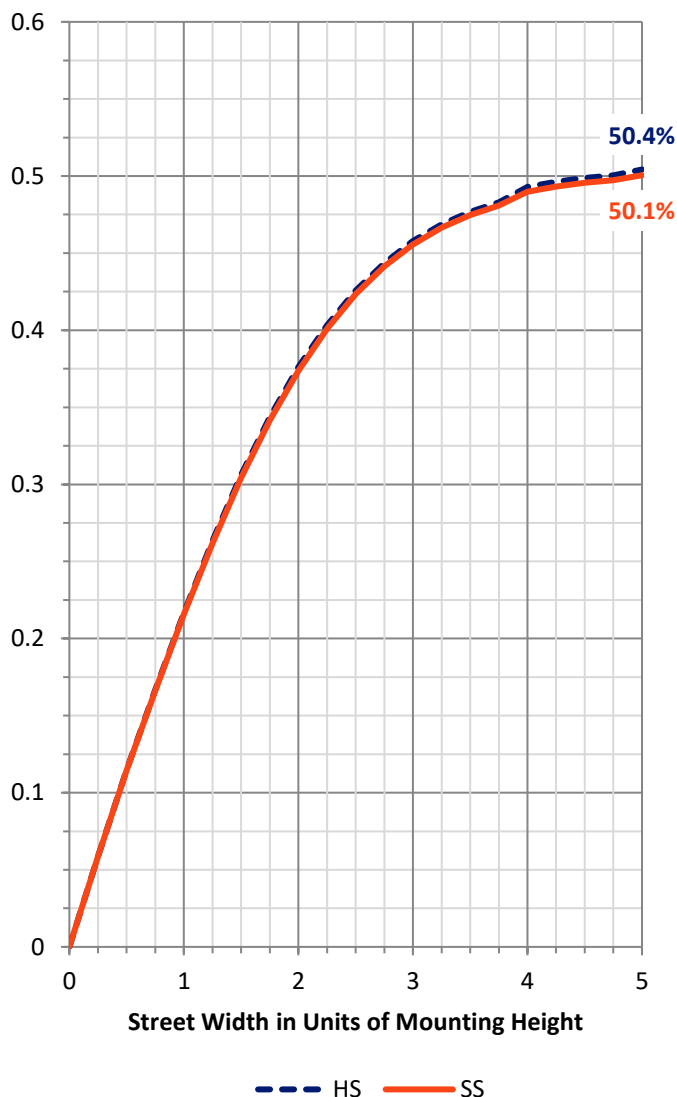
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6979.6 | 0.0 | 6979.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6979.6 | 0.0 | 6979.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 13959.2 | 0.0 | 13959.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 107.2 | 0.8 |
| 10°-20° | 313.2 | 2.2 |
| 20°-30° | 534.0 | 3.8 |
| 30°-40° | 834.4 | 6.0 |
| 40°-50° | 1414.1 | 10.1 |
| 50°-60° | 2578.8 | 18.5 |
| 60°-70° | 4439.6 | 31.8 |
| 70°-80° | 3479.9 | 24.9 |
| 80°-90° | 258.0 | 1.8 |
| 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° | 13959.2 | 100.0 |
| 0°-180° | 13959.2 | 100.0 |



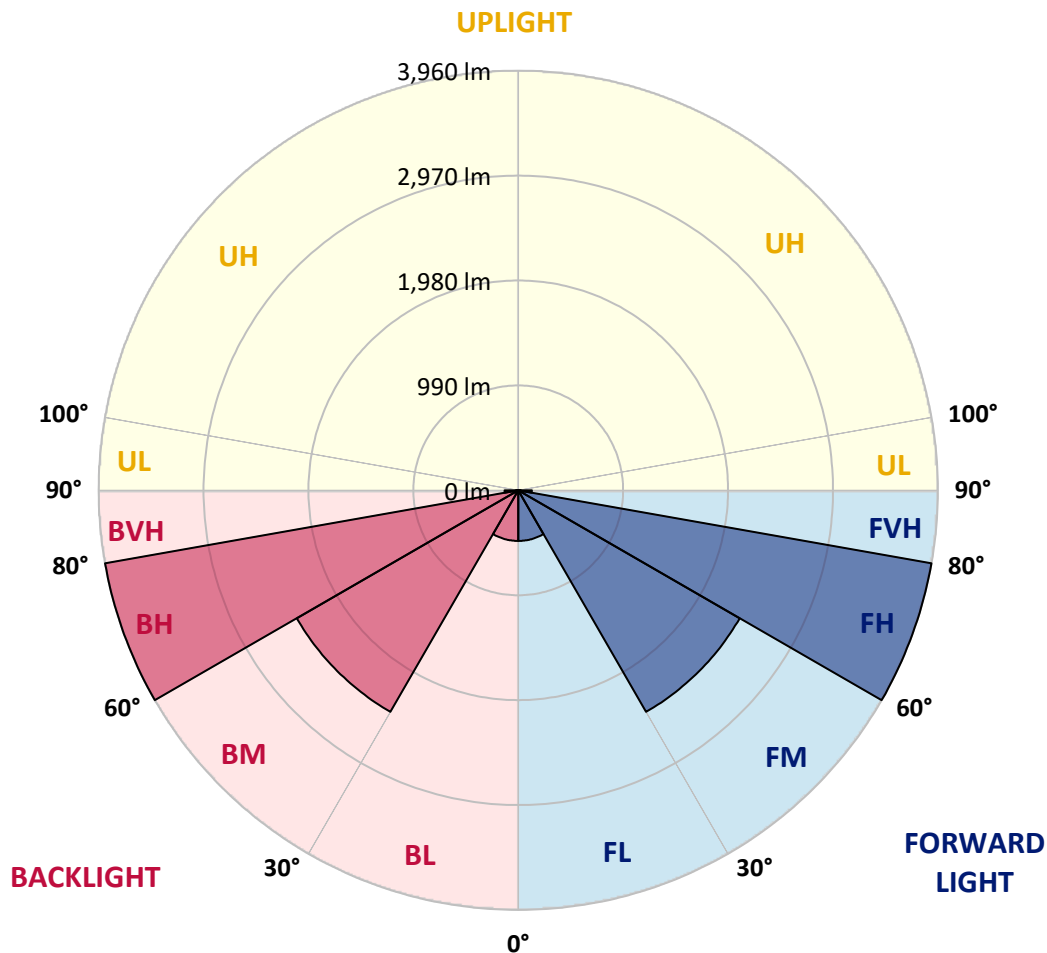
REPORT NUMBER: P382936
 CATALOG NUMBER: GAN-SA3A-735-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 477.2 | 3.4 | | | |
| FM (30°-60°) | 2413.7 | 17.3 | | | |
| FH (60°-80°) | 3959.7 | 28.4 | | | G2/5000 |
| FVH (80°-90°) | 129.0 | 0.9 | | | G2/225 |
| BL (0°-30°) | 477.2 | 3.4 | B1/500 | | |
| BM (30°-60°) | 2413.7 | 17.3 | B2/2500 | | |
| BH (60°-80°) | 3959.7 | 28.4 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 129.0 | 0.9 | | | G2/225 |
| 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: P382936
 CATALOG NUMBER: GAN-SA3A-735-U-5WQ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1148.9 | 1148.9 | 1148.9 | 1148.9 | 1148.9 | 1148.9 | 1148.9 | 1148.9 | 1148.9 | 1148.9 | 1148.9 |
| 2.5° | 1143.8 | 1145.2 | 1143.8 | 1144.7 | 1142.4 | 1143.3 | 1143.3 | 1143.3 | 1142.8 | 1143.3 | 1142.4 |
| 5° | 1133.6 | 1134.5 | 1132.7 | 1133.6 | 1132.2 | 1133.6 | 1134.1 | 1133.6 | 1132.7 | 1133.1 | 1131.3 |
| 7.5° | 1118.4 | 1119.3 | 1118.0 | 1119.3 | 1117.5 | 1119.7 | 1119.3 | 1118.0 | 1116.6 | 1116.6 | 1114.7 |
| 10° | 1110.0 | 1110.5 | 1106.9 | 1105.5 | 1101.3 | 1102.2 | 1103.6 | 1105.0 | 1106.4 | 1109.1 | 1108.6 |
| 12.5° | 1110.5 | 1110.5 | 1105.0 | 1098.9 | 1093.0 | 1094.4 | 1096.7 | 1101.7 | 1107.3 | 1112.4 | 1112.8 |
| 15° | 1115.2 | 1114.7 | 1106.4 | 1096.7 | 1092.5 | 1096.7 | 1098.0 | 1101.3 | 1110.0 | 1118.8 | 1119.3 |
| 17.5° | 1118.4 | 1118.4 | 1105.5 | 1094.4 | 1093.9 | 1100.3 | 1099.9 | 1101.3 | 1111.0 | 1123.9 | 1124.4 |
| 20° | 1124.4 | 1124.4 | 1107.8 | 1095.8 | 1095.8 | 1102.7 | 1103.1 | 1105.5 | 1115.2 | 1129.4 | 1131.7 |
| 22.5° | 1137.8 | 1138.3 | 1120.7 | 1111.0 | 1111.9 | 1116.1 | 1117.5 | 1121.1 | 1129.9 | 1145.6 | 1148.4 |
| 25° | 1156.7 | 1157.6 | 1139.7 | 1134.1 | 1137.3 | 1145.2 | 1144.2 | 1147.0 | 1156.7 | 1172.0 | 1174.7 |
| 27.5° | 1183.0 | 1180.7 | 1164.1 | 1161.7 | 1165.0 | 1170.6 | 1170.1 | 1170.6 | 1178.4 | 1192.3 | 1195.5 |
| 30° | 1217.2 | 1216.2 | 1204.2 | 1205.6 | 1204.2 | 1202.4 | 1202.9 | 1206.5 | 1210.7 | 1221.8 | 1225.1 |
| 32.5° | 1250.4 | 1251.3 | 1244.0 | 1250.9 | 1261.0 | 1268.0 | 1257.4 | 1247.2 | 1242.6 | 1248.6 | 1251.3 |
| 35° | 1310.5 | 1312.7 | 1301.2 | 1296.6 | 1310.5 | 1330.8 | 1300.7 | 1284.1 | 1293.4 | 1301.2 | 1303.5 |
| 37.5° | 1412.5 | 1413.9 | 1394.5 | 1376.0 | 1365.8 | 1385.3 | 1355.2 | 1356.6 | 1388.9 | 1403.7 | 1403.3 |
| 40° | 1528.9 | 1529.3 | 1516.4 | 1500.3 | 1482.7 | 1487.3 | 1475.3 | 1479.0 | 1500.3 | 1513.7 | 1517.3 |
| 42.5° | 1667.4 | 1666.0 | 1645.7 | 1622.6 | 1617.5 | 1622.1 | 1601.8 | 1599.1 | 1623.5 | 1647.5 | 1648.0 |
| 45° | 1847.0 | 1843.8 | 1817.4 | 1792.1 | 1767.6 | 1757.5 | 1752.3 | 1765.7 | 1799.5 | 1821.6 | 1822.1 |
| 47.5° | 2040.5 | 2031.7 | 2017.8 | 1997.5 | 1976.3 | 1966.1 | 1957.8 | 1964.3 | 1988.8 | 1997.5 | 1998.4 |
| 50° | 2239.5 | 2241.4 | 2244.1 | 2236.3 | 2228.4 | 2225.2 | 2203.5 | 2191.0 | 2198.5 | 2182.2 | 2179.9 |
| 52.5° | 2475.5 | 2479.1 | 2506.0 | 2528.6 | 2542.0 | 2548.9 | 2507.8 | 2464.9 | 2440.8 | 2409.4 | 2400.2 |
| 55° | 2753.9 | 2759.9 | 2799.2 | 2862.0 | 2926.6 | 2960.7 | 2886.4 | 2806.1 | 2731.8 | 2673.1 | 2654.2 |
| 57.5° | 3064.2 | 3074.9 | 3128.9 | 3249.3 | 3381.9 | 3462.7 | 3337.1 | 3191.2 | 3047.6 | 2963.1 | 2948.3 |
| 60° | 3428.1 | 3438.2 | 3513.1 | 3685.8 | 3900.5 | 4021.9 | 3831.6 | 3592.9 | 3414.2 | 3333.4 | 3306.2 |
| 62.5° | 3861.2 | 3862.1 | 3954.0 | 4155.8 | 4439.3 | 4608.3 | 4350.7 | 4031.6 | 3847.4 | 3749.9 | 3723.6 |
| 65° | 4327.1 | 4329.5 | 4424.6 | 4642.5 | 4935.7 | 5119.5 | 4828.6 | 4496.1 | 4270.8 | 4127.1 | 4106.8 |
| 67.5° | 4656.3 | 4666.0 | 4766.3 | 5028.5 | 5302.8 | 5468.6 | 5167.5 | 4791.6 | 4531.2 | 4359.9 | 4342.8 |
| 70° | 4603.7 | 4641.5 | 4759.3 | 5065.5 | 5446.9 | 5683.3 | 5222.4 | 4756.6 | 4413.0 | 4210.8 | 4196.4 |
| 72.5° | 4015.0 | 4087.4 | 4244.4 | 4646.2 | 5256.2 | 5581.7 | 4922.8 | 4260.2 | 3871.3 | 3699.1 | 3673.3 |
| 75° | 2734.1 | 2851.8 | 3088.6 | 3668.2 | 4490.5 | 4832.8 | 4144.3 | 3396.7 | 3031.0 | 2792.7 | 2775.2 |
| 77.5° | 1219.0 | 1245.9 | 1546.0 | 2213.2 | 3098.9 | 3470.6 | 3011.1 | 2221.9 | 1667.8 | 1330.3 | 1259.2 |
| 80° | 339.8 | 344.0 | 459.0 | 824.2 | 1551.0 | 2039.2 | 1665.0 | 865.8 | 486.7 | 343.1 | 323.2 |
| 82.5° | 108.1 | 117.3 | 143.2 | 213.8 | 521.3 | 930.4 | 535.2 | 230.8 | 164.4 | 131.2 | 118.2 |
| 85° | 52.6 | 52.2 | 72.5 | 86.8 | 133.0 | 206.0 | 141.8 | 107.1 | 93.7 | 62.3 | 56.4 |
| 87.5° | 22.2 | 22.6 | 33.7 | 30.5 | 38.8 | 33.3 | 45.7 | 48.1 | 50.3 | 27.7 | 24.0 |
| 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)