

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: P652698

Luminaire Tested: **GLAN-SA2C-840-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652698
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-SA2C-840-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA 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: 7135.9 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

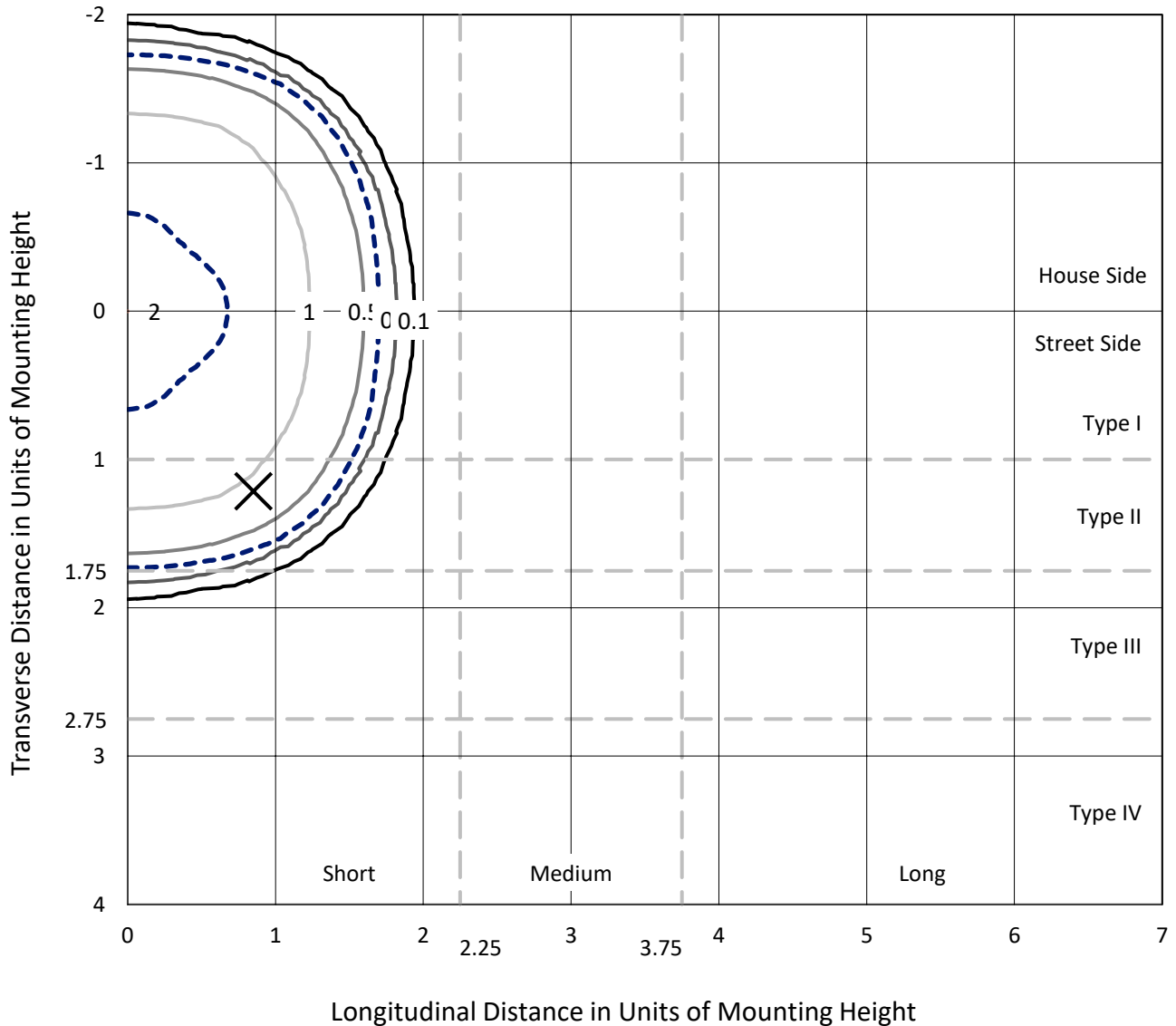
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652698
 CATALOG NUMBER: GLAN-SA2C-840-U-5MQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

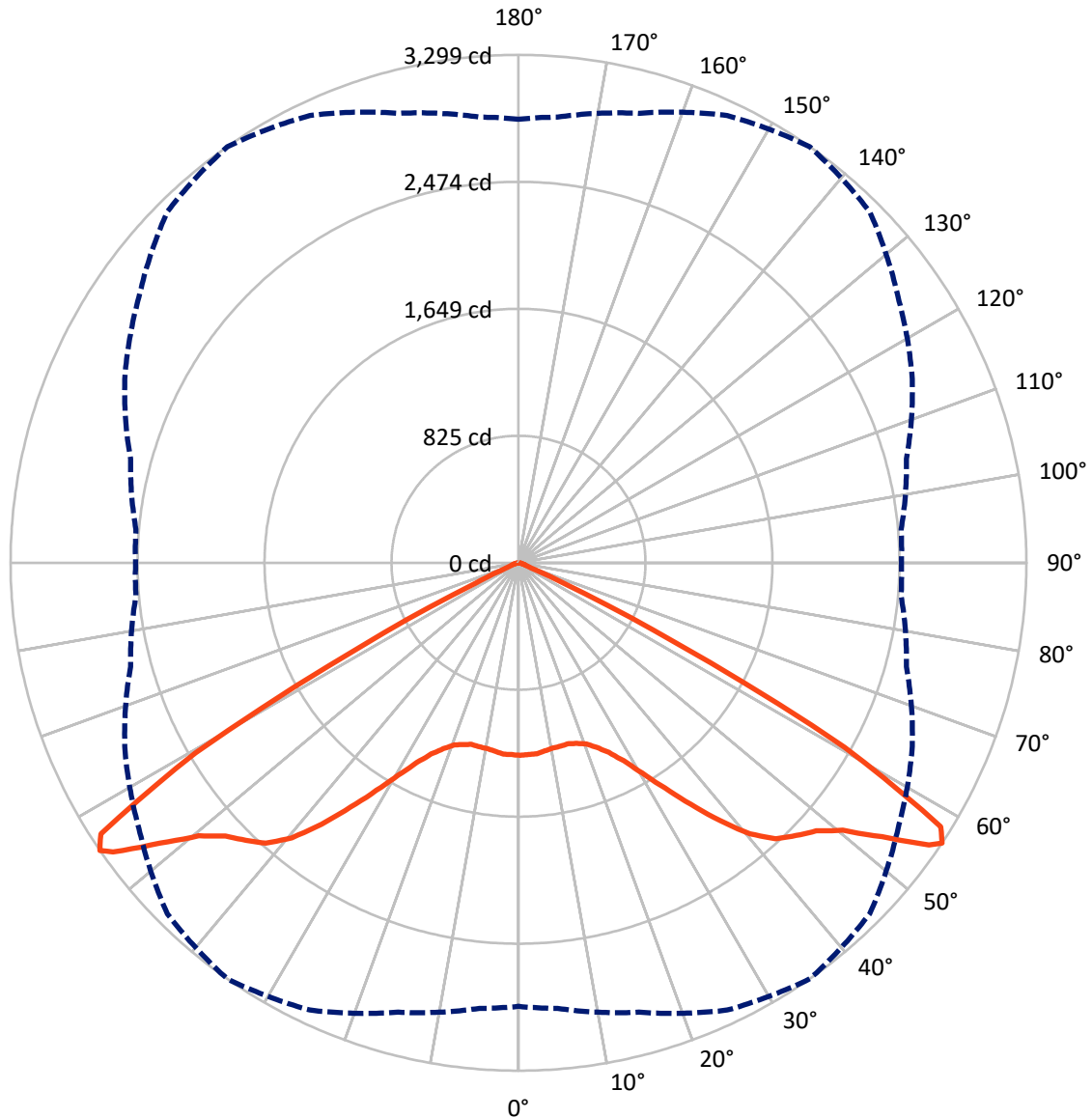
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - N/A

REPORT NUMBER: P652698
CATALOG NUMBER: GLAN-SA2C-840-U-5MQ-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P652698
 CATALOG NUMBER: GLAN-SA2C-840-U-5MQ-GRSBK

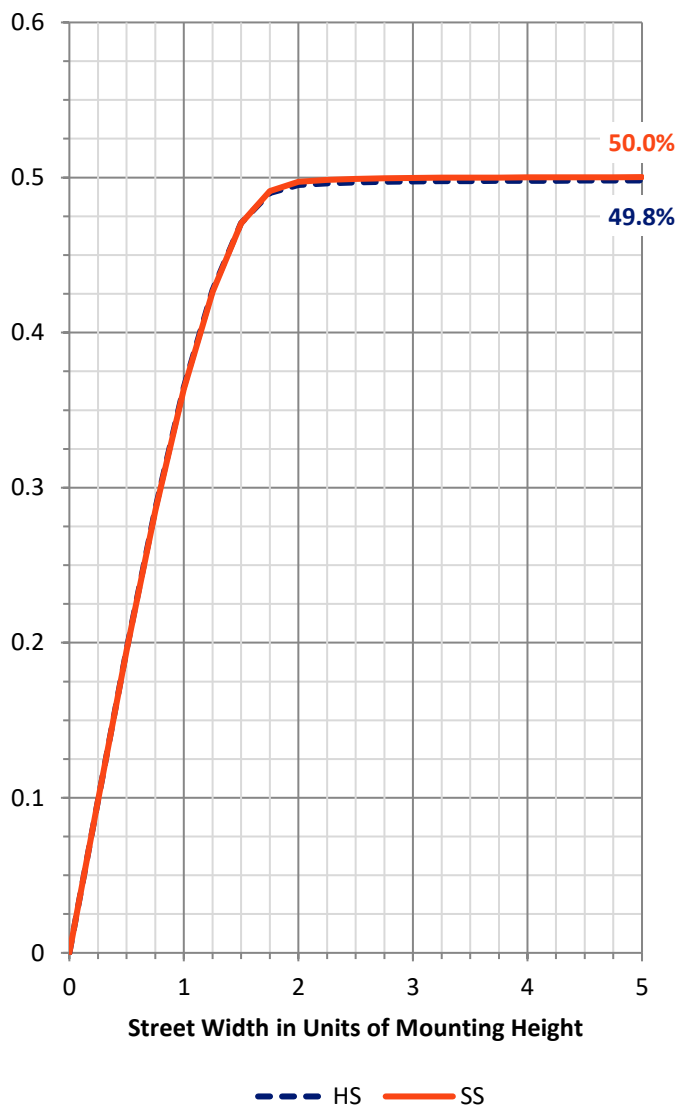
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3567.9 | 0.0 | 3567.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3567.9 | 0.0 | 3567.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7135.9 | 0.0 | 7135.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 117.5 | 1.6 |
| 10°-20° | 343.1 | 4.8 |
| 20°-30° | 621.3 | 8.7 |
| 30°-40° | 1152.1 | 16.1 |
| 40°-50° | 1891.0 | 26.5 |
| 50°-60° | 2436.2 | 34.1 |
| 60°-70° | 536.9 | 7.5 |
| 70°-80° | 31.2 | 0.4 |
| 80°-90° | 6.6 | 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° | 7135.9 | 100.0 |
| 0°-180° | 7135.9 | 100.0 |

Coefficient of Utilization

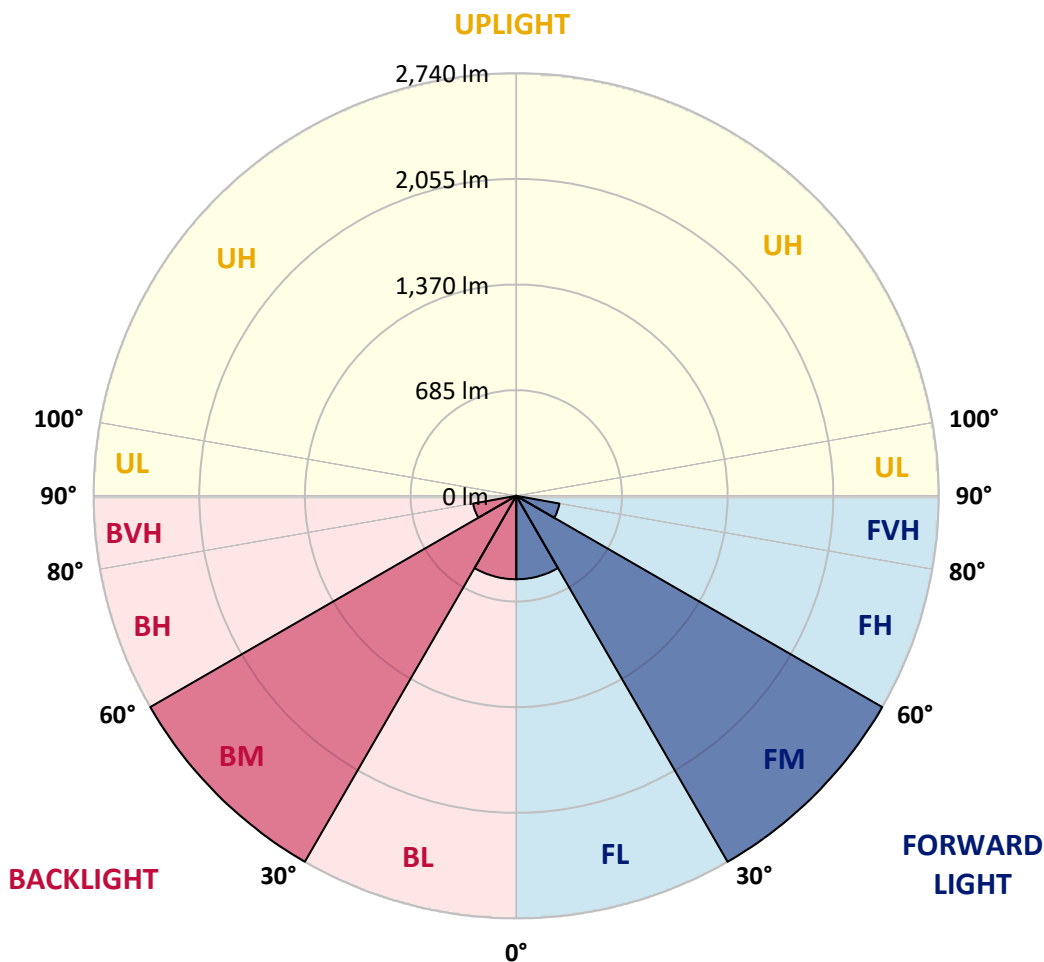


REPORT NUMBER: P652698
 CATALOG NUMBER: GLAN-SA2C-840-U-5MQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 540.9 | 7.6 | | | |
| FM (30°-60°) | 2739.7 | 38.4 | | | |
| FH (60°-80°) | 284.0 | 4.0 | | | G0/660 |
| FVH (80°-90°) | 3.3 | 0.0 | | | G0/10 |
| BL (0°-30°) | 540.9 | 7.6 | B2/1000 | | |
| BM (30°-60°) | 2739.7 | 38.4 | B3/5000 | | |
| BH (60°-80°) | 284.0 | 4.0 | B1/500 | | G0/660 |
| BVH (80°-90°) | 3.3 | 0.0 | | | 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





REPORT NUMBER: P652698

CATALOG NUMBER: GLAN-SA2C-840-U-5MQ-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1250.4 | 1250.4 | 1250.4 | 1250.4 | 1250.4 | 1250.4 | 1250.4 | 1250.4 | 1250.4 | 1250.4 | 1250.4 |
| 2.5° | 1252.9 | 1252.9 | 1254.3 | 1255.5 | 1246.4 | 1242.6 | 1243.9 | 1241.3 | 1240.1 | 1243.9 | 1243.9 |
| 5° | 1249.1 | 1249.1 | 1245.2 | 1246.4 | 1246.4 | 1234.8 | 1234.8 | 1237.4 | 1237.4 | 1229.7 | 1227.1 |
| 7.5° | 1238.7 | 1236.1 | 1231.0 | 1237.4 | 1233.6 | 1233.6 | 1224.5 | 1218.0 | 1215.4 | 1220.6 | 1215.4 |
| 10° | 1216.8 | 1218.0 | 1223.2 | 1225.8 | 1223.2 | 1231.0 | 1215.4 | 1206.4 | 1197.3 | 1193.5 | 1193.5 |
| 12.5° | 1206.4 | 1214.2 | 1206.4 | 1212.9 | 1221.9 | 1215.4 | 1206.4 | 1199.9 | 1187.0 | 1181.9 | 1181.9 |
| 15° | 1205.1 | 1210.3 | 1212.9 | 1221.9 | 1218.0 | 1220.6 | 1202.5 | 1194.7 | 1175.4 | 1166.3 | 1162.4 |
| 17.5° | 1203.8 | 1210.3 | 1214.2 | 1231.0 | 1233.6 | 1234.8 | 1220.6 | 1197.3 | 1180.5 | 1171.5 | 1162.4 |
| 20° | 1218.0 | 1220.6 | 1228.4 | 1245.2 | 1255.5 | 1273.6 | 1247.8 | 1223.2 | 1187.0 | 1176.6 | 1172.8 |
| 22.5° | 1236.1 | 1249.1 | 1256.8 | 1275.0 | 1302.1 | 1317.6 | 1284.0 | 1252.9 | 1215.4 | 1202.5 | 1187.0 |
| 25° | 1294.3 | 1291.8 | 1304.6 | 1342.2 | 1364.2 | 1375.8 | 1348.6 | 1303.4 | 1254.3 | 1238.7 | 1241.3 |
| 27.5° | 1366.7 | 1369.3 | 1380.9 | 1422.3 | 1454.7 | 1472.8 | 1440.5 | 1380.9 | 1333.2 | 1307.3 | 1304.6 |
| 30° | 1461.2 | 1458.5 | 1471.5 | 1527.1 | 1585.3 | 1612.4 | 1555.5 | 1485.7 | 1439.1 | 1405.6 | 1413.3 |
| 32.5° | 1560.7 | 1562.0 | 1598.2 | 1648.6 | 1743.0 | 1796.0 | 1704.2 | 1618.8 | 1549.0 | 1525.7 | 1514.1 |
| 35° | 1708.1 | 1714.5 | 1743.0 | 1820.6 | 1925.3 | 1993.8 | 1893.0 | 1790.8 | 1710.7 | 1668.0 | 1673.2 |
| 37.5° | 1890.4 | 1883.9 | 1931.8 | 2015.8 | 2125.7 | 2176.2 | 2090.8 | 1974.4 | 1893.0 | 1864.6 | 1882.7 |
| 40° | 2084.3 | 2090.8 | 2115.4 | 2191.6 | 2314.5 | 2348.2 | 2221.4 | 2158.1 | 2086.9 | 2072.7 | 2094.7 |
| 42.5° | 2278.4 | 2274.4 | 2292.6 | 2361.1 | 2450.3 | 2427.0 | 2352.0 | 2314.5 | 2264.1 | 2235.6 | 2265.4 |
| 45° | 2420.6 | 2414.1 | 2447.7 | 2494.2 | 2526.6 | 2482.6 | 2449.0 | 2436.0 | 2410.2 | 2379.2 | 2406.4 |
| 47.5° | 2558.9 | 2553.7 | 2586.1 | 2599.0 | 2601.5 | 2543.4 | 2549.8 | 2573.1 | 2508.5 | 2443.9 | 2474.9 |
| 50° | 2676.6 | 2667.5 | 2707.6 | 2736.0 | 2729.5 | 2636.5 | 2659.7 | 2636.5 | 2535.6 | 2459.3 | 2447.7 |
| 52.5° | 2873.1 | 2877.0 | 2919.7 | 2971.4 | 2955.9 | 2878.3 | 2844.7 | 2738.6 | 2609.4 | 2540.8 | 2500.7 |
| 55° | 2997.2 | 2977.8 | 3051.6 | 3215.7 | 3233.9 | 3153.7 | 3005.0 | 2848.6 | 2654.6 | 2570.5 | 2560.2 |
| 56° | 2880.8 | 2905.4 | 3021.8 | 3205.4 | 3298.5 | 3224.8 | 3008.8 | 2821.4 | 2608.0 | 2494.2 | 2486.5 |
| 57.5° | 2584.7 | 2571.9 | 2729.5 | 2980.4 | 3233.9 | 3202.9 | 2902.9 | 2627.5 | 2379.2 | 2251.2 | 2235.6 |
| 60° | 1608.5 | 1646.0 | 1784.3 | 2094.7 | 2433.5 | 2449.0 | 2151.6 | 1915.0 | 1625.3 | 1511.5 | 1538.7 |
| 62.5° | 629.7 | 597.4 | 684.0 | 915.4 | 1148.2 | 1199.9 | 1087.4 | 903.8 | 742.2 | 629.7 | 621.9 |
| 65° | 146.1 | 142.2 | 160.3 | 221.1 | 309.1 | 358.2 | 340.1 | 244.4 | 179.7 | 170.6 | 157.8 |
| 67.5° | 82.8 | 82.8 | 78.9 | 78.9 | 86.6 | 91.8 | 87.9 | 86.6 | 90.5 | 94.4 | 93.1 |
| 70° | 58.2 | 56.9 | 54.3 | 55.6 | 53.0 | 53.0 | 56.9 | 63.3 | 68.5 | 68.5 | 69.8 |
| 72.5° | 34.9 | 34.9 | 34.9 | 38.8 | 38.8 | 38.8 | 42.6 | 47.9 | 49.1 | 47.9 | 46.5 |
| 75° | 15.5 | 15.5 | 18.1 | 22.0 | 24.6 | 25.8 | 29.8 | 32.3 | 34.9 | 32.3 | 29.8 |
| 77.5° | 3.9 | 3.9 | 6.5 | 9.1 | 11.6 | 14.2 | 19.4 | 23.3 | 24.6 | 23.3 | 19.4 |
| 80° | 1.3 | 1.3 | 2.6 | 6.5 | 11.6 | 14.2 | 19.4 | 20.7 | 22.0 | 19.4 | 15.5 |
| 82.5° | 1.3 | 1.3 | 2.6 | 6.5 | 9.1 | 11.6 | 15.5 | 18.1 | 19.4 | 16.8 | 15.5 |
| 85° | 0.0 | 1.3 | 2.6 | 5.1 | 7.7 | 10.3 | 10.3 | 7.7 | 6.5 | 3.9 | 5.1 |
| 87.5° | 0.0 | 0.0 | 1.3 | 1.3 | 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)