

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: P649294

Luminaire Tested: **GLAN-SA3D-835-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P649294
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-SA3D-835-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA 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: 9432 lumens
Efficiency: N/A
Efficacy: 51.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

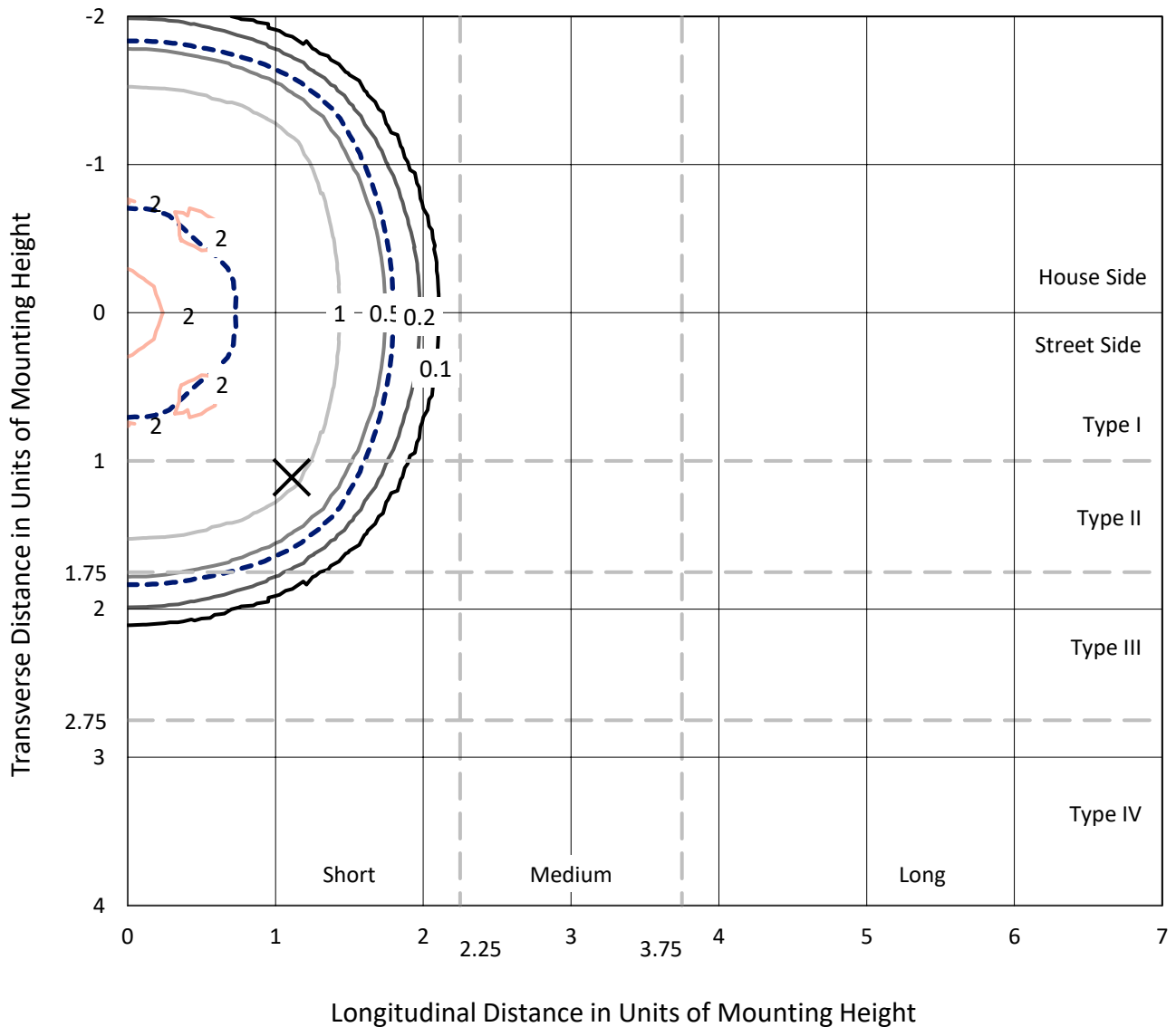
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

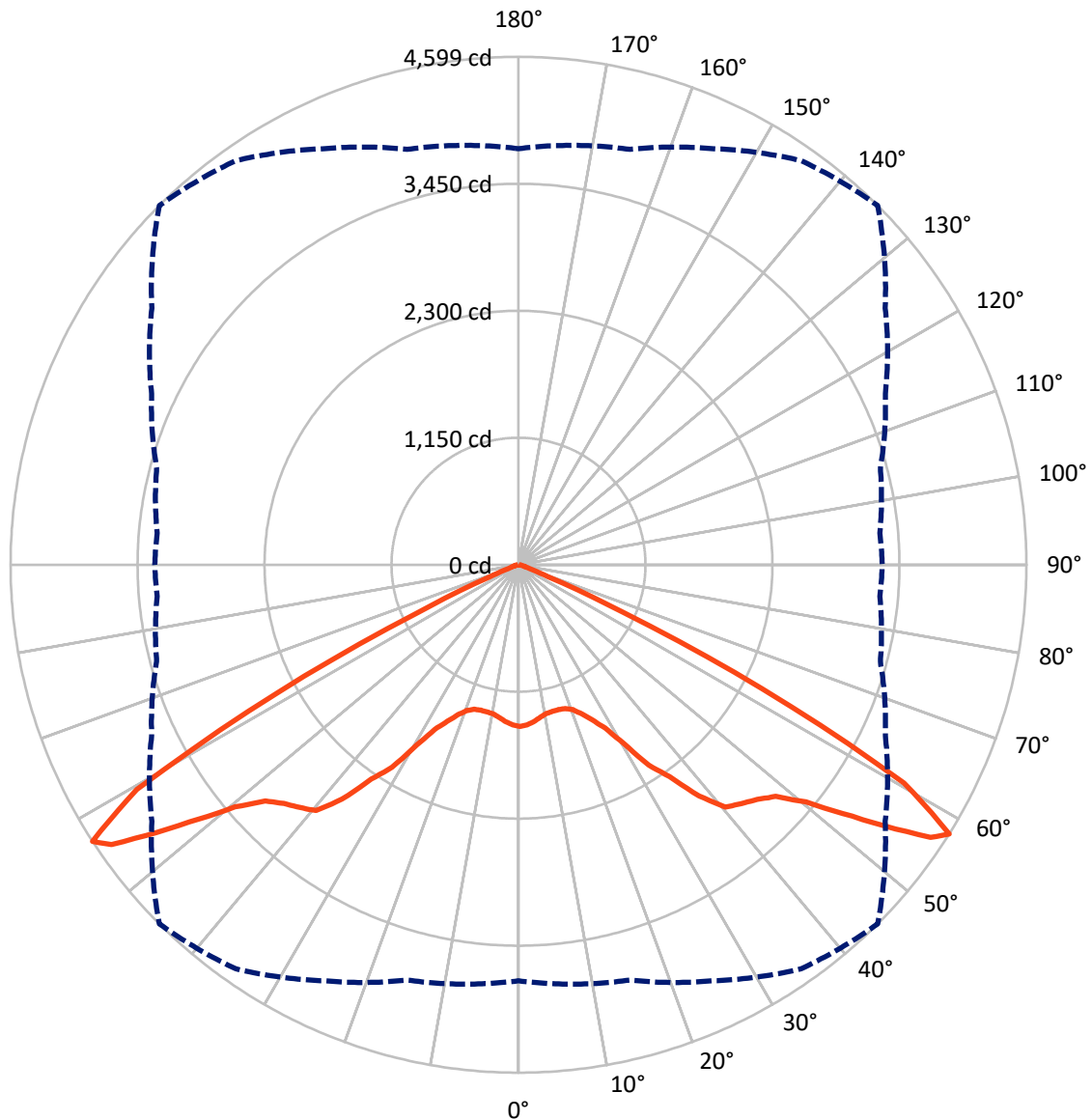
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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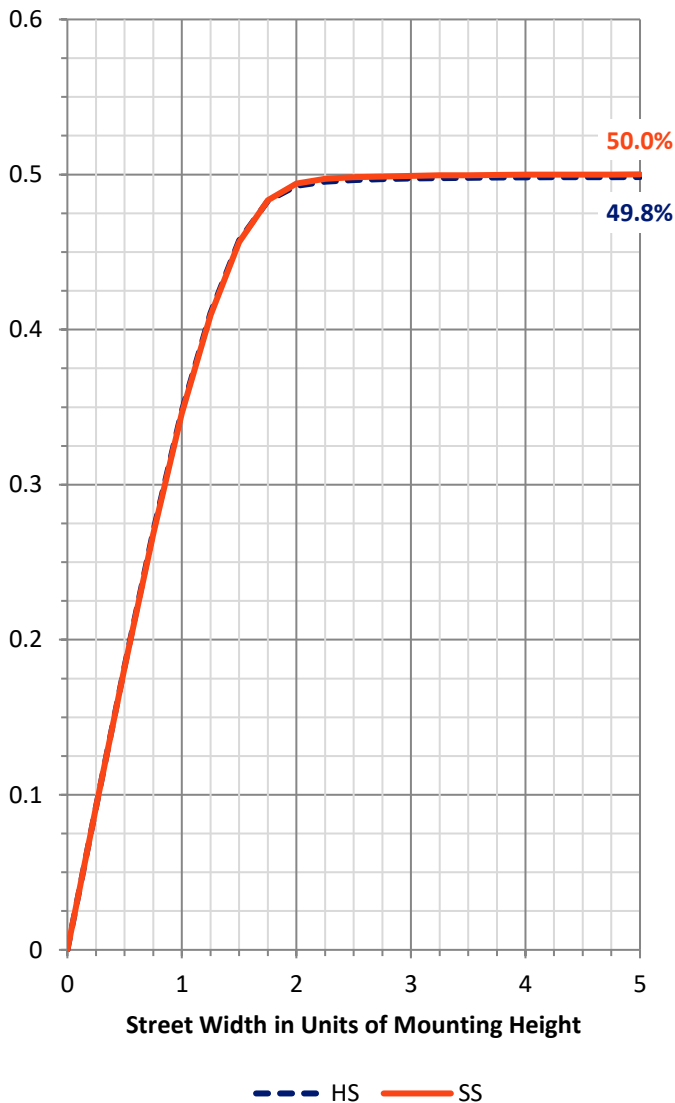
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4716.0 | 0.0 | 4716.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4716.0 | 0.0 | 4716.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9432.0 | 0.0 | 9432.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 134.4 | 1.4 |
| 10°-20° | 388.6 | 4.1 |
| 20°-30° | 717.3 | 7.6 |
| 30°-40° | 1410.7 | 15.0 |
| 40°-50° | 2297.6 | 24.4 |
| 50°-60° | 3276.7 | 34.7 |
| 60°-70° | 1134.5 | 12.0 |
| 70°-80° | 60.9 | 0.6 |
| 80°-90° | 11.4 | 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° | 9432.0 | 100.0 |
| 0°-180° | 9432.0 | 100.0 |

Coefficient of Utilization

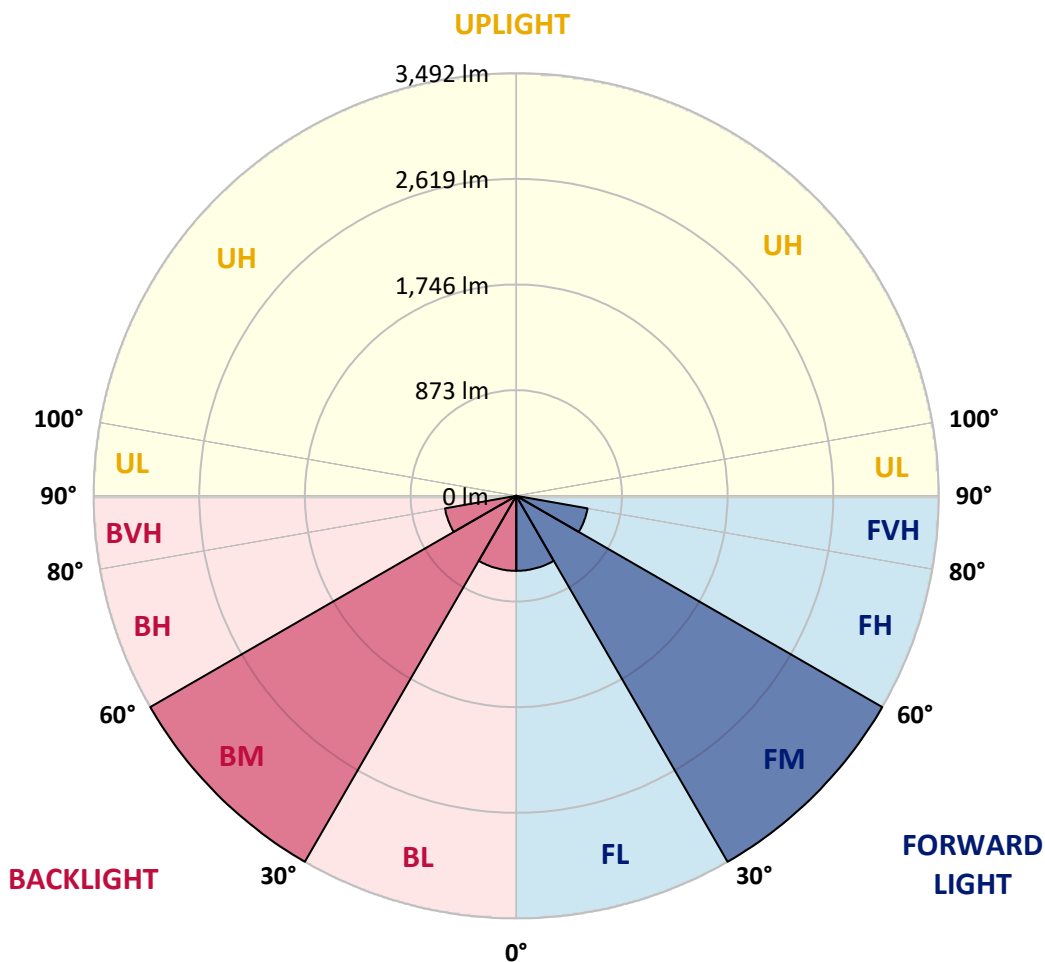


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 620.2 | 6.6 | | | |
| FM (30°-60°) | 3492.5 | 37.0 | | | |
| FH (60°-80°) | 597.7 | 6.3 | | | G0/660 |
| FVH (80°-90°) | 5.7 | 0.1 | | | G0/10 |
| BL (0°-30°) | 620.2 | 6.6 | B2/1000 | | |
| BM (30°-60°) | 3492.5 | 37.0 | B3/5000 | | |
| BH (60°-80°) | 597.7 | 6.3 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 5.7 | 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° | 1463.0 | 1463.0 | 1463.0 | 1463.0 | 1463.0 | 1463.0 | 1463.0 | 1463.0 | 1463.0 | 1463.0 | 1463.0 |
| 2.5° | 1459.0 | 1467.0 | 1457.1 | 1453.2 | 1451.2 | 1451.2 | 1445.3 | 1445.3 | 1443.3 | 1445.3 | 1437.4 |
| 5° | 1435.5 | 1443.3 | 1443.3 | 1441.3 | 1429.6 | 1427.6 | 1421.7 | 1417.8 | 1419.7 | 1411.9 | 1417.8 |
| 7.5° | 1411.9 | 1417.8 | 1409.9 | 1407.9 | 1404.0 | 1396.2 | 1394.2 | 1376.5 | 1378.5 | 1378.5 | 1382.4 |
| 10° | 1407.9 | 1406.0 | 1394.2 | 1384.3 | 1372.5 | 1370.6 | 1364.7 | 1360.8 | 1360.8 | 1358.8 | 1364.7 |
| 12.5° | 1407.9 | 1398.1 | 1396.2 | 1374.5 | 1354.8 | 1362.7 | 1347.0 | 1337.1 | 1350.9 | 1354.8 | 1362.7 |
| 15° | 1406.0 | 1415.8 | 1382.4 | 1372.5 | 1358.8 | 1360.8 | 1347.0 | 1337.1 | 1345.0 | 1349.0 | 1354.8 |
| 17.5° | 1417.8 | 1411.9 | 1402.0 | 1382.4 | 1376.5 | 1368.6 | 1350.9 | 1343.1 | 1343.1 | 1352.9 | 1354.8 |
| 20° | 1449.3 | 1433.5 | 1413.9 | 1404.0 | 1409.9 | 1400.1 | 1378.5 | 1349.0 | 1356.8 | 1364.7 | 1370.6 |
| 22.5° | 1478.8 | 1467.0 | 1453.2 | 1447.3 | 1480.7 | 1465.0 | 1427.6 | 1394.2 | 1382.4 | 1396.2 | 1406.0 |
| 25° | 1535.8 | 1535.8 | 1510.2 | 1518.1 | 1555.4 | 1557.4 | 1514.2 | 1455.1 | 1447.3 | 1453.2 | 1457.1 |
| 27.5° | 1651.8 | 1657.7 | 1636.1 | 1643.9 | 1659.6 | 1673.4 | 1636.1 | 1586.9 | 1569.2 | 1567.3 | 1573.1 |
| 30° | 1777.6 | 1789.4 | 1787.4 | 1820.9 | 1866.1 | 1874.0 | 1818.9 | 1738.3 | 1685.2 | 1675.4 | 1683.2 |
| 32.5° | 1942.8 | 1948.7 | 1944.7 | 1984.1 | 2106.0 | 2163.0 | 2019.5 | 1905.4 | 1834.6 | 1852.3 | 1834.6 |
| 35° | 2253.5 | 2247.6 | 2204.3 | 2212.2 | 2312.5 | 2353.8 | 2216.1 | 2143.4 | 2110.0 | 2145.3 | 2137.5 |
| 37.5° | 2520.9 | 2499.3 | 2463.9 | 2515.0 | 2619.2 | 2656.6 | 2513.0 | 2385.3 | 2324.3 | 2383.3 | 2408.8 |
| 40° | 2747.1 | 2692.0 | 2642.9 | 2694.0 | 2833.6 | 2884.7 | 2674.3 | 2570.1 | 2546.5 | 2589.8 | 2644.8 |
| 42.5° | 2937.8 | 2902.4 | 2837.5 | 2841.4 | 2933.9 | 2957.5 | 2788.3 | 2727.4 | 2703.8 | 2772.6 | 2800.2 |
| 45° | 3073.5 | 3040.1 | 2979.1 | 2975.2 | 3045.9 | 3030.2 | 2878.8 | 2837.5 | 2851.3 | 2896.6 | 2910.3 |
| 47.5° | 3142.3 | 3160.0 | 3124.6 | 3134.4 | 3171.8 | 3134.4 | 3014.5 | 3014.5 | 2983.1 | 3010.6 | 2996.8 |
| 50° | 3340.9 | 3285.9 | 3331.1 | 3331.1 | 3370.4 | 3374.3 | 3254.4 | 3211.2 | 3126.6 | 3079.4 | 3079.4 |
| 52.5° | 3573.0 | 3576.9 | 3594.6 | 3659.5 | 3726.3 | 3783.4 | 3612.3 | 3427.4 | 3285.9 | 3224.9 | 3217.0 |
| 55° | 3763.7 | 3803.0 | 3873.8 | 3995.7 | 4188.4 | 4267.1 | 3972.2 | 3641.8 | 3468.8 | 3374.3 | 3354.7 |
| 56° | 3867.9 | 3830.6 | 3952.5 | 4119.6 | 4371.3 | 4473.6 | 4031.1 | 3685.0 | 3494.3 | 3388.1 | 3386.2 |
| 57.5° | 3767.6 | 3808.9 | 3893.5 | 4156.9 | 4465.7 | 4599.4 | 4052.7 | 3665.4 | 3392.0 | 3283.9 | 3293.7 |
| 60° | 2975.2 | 3014.5 | 3128.6 | 3423.5 | 3907.2 | 4011.5 | 3429.4 | 3022.4 | 2778.6 | 2623.2 | 2625.2 |
| 62.5° | 1683.2 | 1712.7 | 1801.2 | 2074.6 | 2375.4 | 2475.7 | 2137.5 | 1866.1 | 1697.0 | 1610.5 | 1583.0 |
| 65° | 619.4 | 607.6 | 621.4 | 761.0 | 945.9 | 1030.4 | 888.8 | 751.1 | 662.7 | 631.3 | 619.4 |
| 67.5° | 232.0 | 214.3 | 200.6 | 214.3 | 269.4 | 285.1 | 261.5 | 218.3 | 204.5 | 210.4 | 214.3 |
| 70° | 143.5 | 135.7 | 108.1 | 102.3 | 100.3 | 98.3 | 104.2 | 110.1 | 125.8 | 147.5 | 151.4 |
| 72.5° | 100.3 | 94.4 | 76.7 | 72.7 | 68.8 | 66.9 | 76.7 | 84.6 | 98.3 | 114.1 | 116.0 |
| 75° | 39.3 | 41.3 | 39.3 | 43.3 | 45.3 | 47.2 | 55.0 | 61.0 | 66.9 | 66.9 | 64.9 |
| 77.5° | 7.8 | 7.8 | 11.8 | 15.7 | 19.7 | 25.5 | 37.3 | 43.3 | 45.3 | 43.3 | 37.3 |
| 80° | 0.0 | 0.0 | 3.9 | 7.8 | 15.7 | 21.6 | 33.4 | 37.3 | 41.3 | 37.3 | 29.5 |
| 82.5° | 0.0 | 0.0 | 3.9 | 9.9 | 15.7 | 19.7 | 31.5 | 39.3 | 45.3 | 41.3 | 31.5 |
| 85° | 0.0 | 0.0 | 3.9 | 7.8 | 11.8 | 13.8 | 13.8 | 9.9 | 9.9 | 5.9 | 3.9 |
| 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)