

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P385568

Luminaire Tested: GAW-SA1A-827-U-5WQ

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P385568
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
Product Line: STREETWORKS
Catalog Number: GAW-SA1A-827-U-5WQ
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3853 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

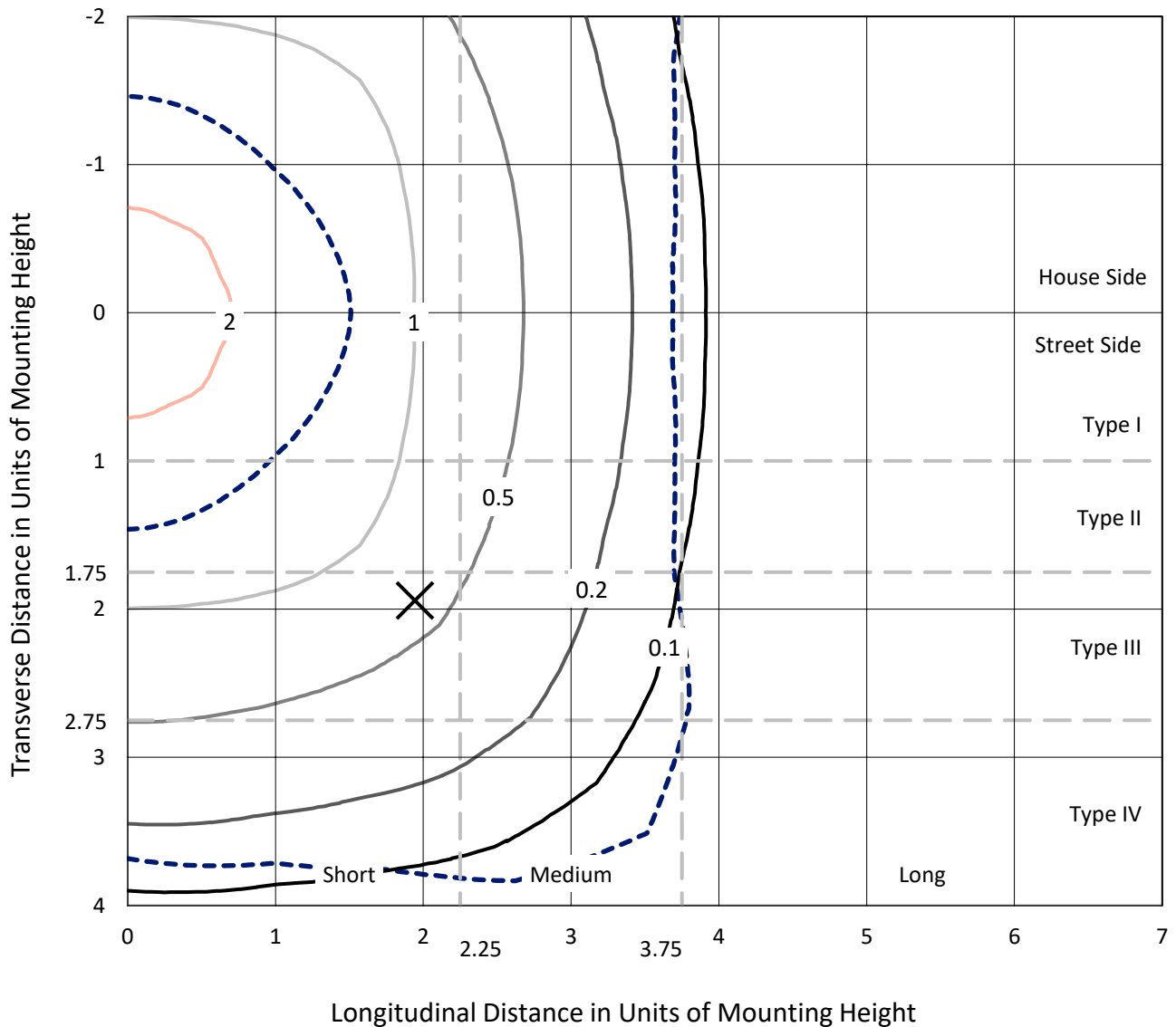
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

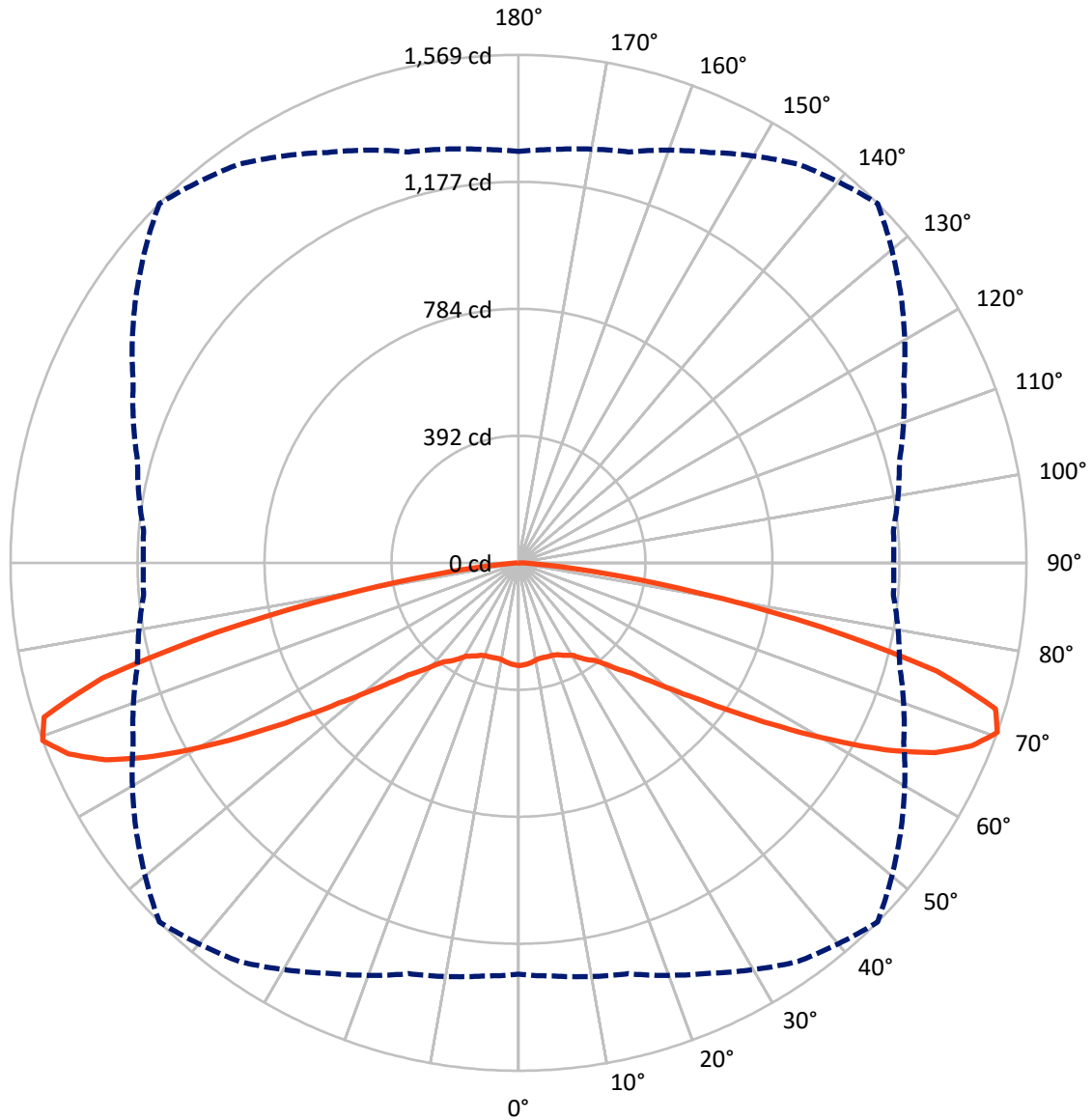
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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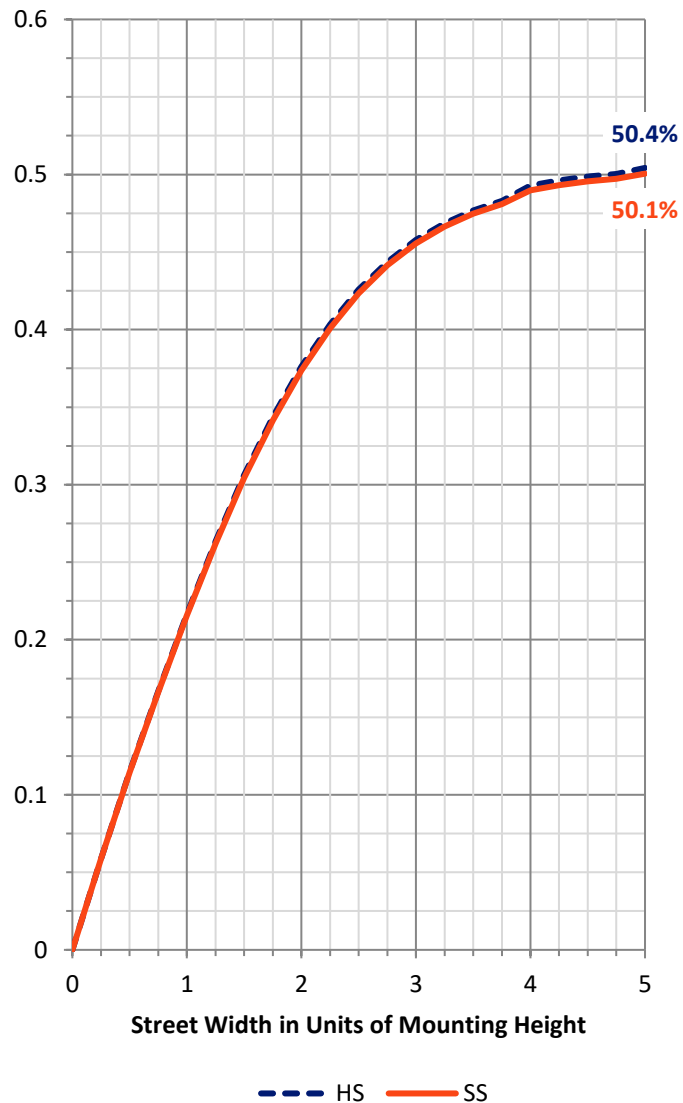
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1926.5 | 0.0 | 1926.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1926.5 | 0.0 | 1926.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3853.0 | 0.0 | 3853.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 29.6 | 0.8 |
| 10°-20° | 86.5 | 2.2 |
| 20°-30° | 147.4 | 3.8 |
| 30°-40° | 230.3 | 6.0 |
| 40°-50° | 390.3 | 10.1 |
| 50°-60° | 711.8 | 18.5 |
| 60°-70° | 1225.4 | 31.8 |
| 70°-80° | 960.5 | 24.9 |
| 80°-90° | 71.2 | 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° | 3853.0 | 100.0 |
| 0°-180° | 3853.0 | 100.0 |

Coefficient of Utilization



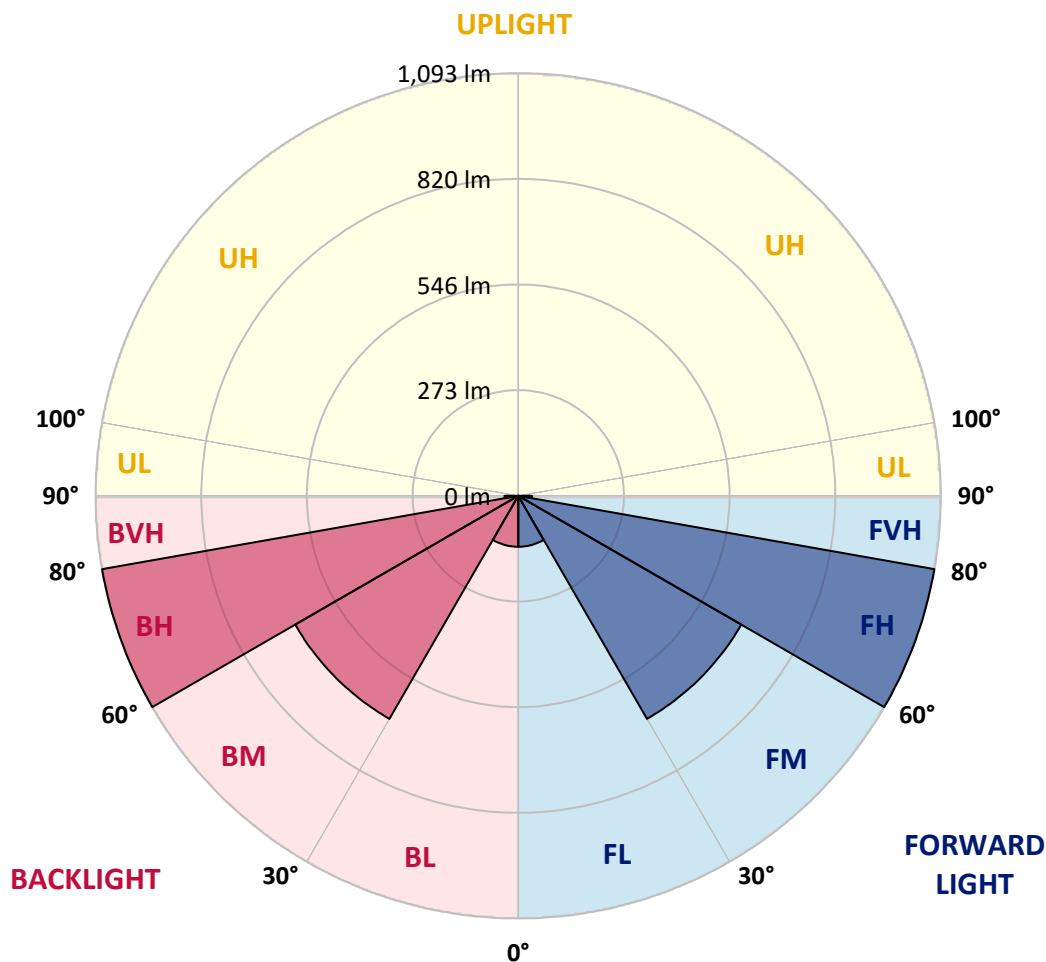
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 131.7 | 3.4 | | | |
| FM (30°-60°) | 666.2 | 17.3 | | | |
| FH (60°-80°) | 1093.0 | 28.4 | | | G1/1800 |
| FVH (80°-90°) | 35.6 | 0.9 | | | G1/100 |
| BL (0°-30°) | 131.7 | 3.4 | B1/500 | | |
| BM (30°-60°) | 666.2 | 17.3 | B1/1000 | | |
| BH (60°-80°) | 1093.0 | 28.4 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 35.6 | 0.9 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 317.1 | 317.1 | 317.1 | 317.1 | 317.1 | 317.1 | 317.1 | 317.1 | 317.1 | 317.1 | 317.1 |
| 2.5° | 315.7 | 316.1 | 315.7 | 316.0 | 315.3 | 315.6 | 315.6 | 315.6 | 315.4 | 315.6 | 315.3 |
| 5° | 312.9 | 313.2 | 312.6 | 312.9 | 312.5 | 312.9 | 313.0 | 312.9 | 312.6 | 312.8 | 312.3 |
| 7.5° | 308.7 | 308.9 | 308.6 | 308.9 | 308.4 | 309.1 | 308.9 | 308.6 | 308.2 | 308.2 | 307.7 |
| 10° | 306.4 | 306.5 | 305.5 | 305.1 | 304.0 | 304.2 | 304.6 | 305.0 | 305.4 | 306.1 | 306.0 |
| 12.5° | 306.5 | 306.5 | 305.0 | 303.3 | 301.7 | 302.1 | 302.7 | 304.1 | 305.6 | 307.0 | 307.2 |
| 15° | 307.8 | 307.7 | 305.4 | 302.7 | 301.6 | 302.7 | 303.1 | 304.0 | 306.4 | 308.8 | 308.9 |
| 17.5° | 308.7 | 308.7 | 305.1 | 302.1 | 301.9 | 303.7 | 303.6 | 304.0 | 306.7 | 310.2 | 310.3 |
| 20° | 310.3 | 310.3 | 305.8 | 302.4 | 302.4 | 304.4 | 304.5 | 305.1 | 307.8 | 311.7 | 312.4 |
| 22.5° | 314.0 | 314.2 | 309.3 | 306.7 | 306.9 | 308.1 | 308.4 | 309.5 | 311.9 | 316.2 | 317.0 |
| 25° | 319.3 | 319.5 | 314.6 | 313.0 | 313.9 | 316.1 | 315.8 | 316.6 | 319.3 | 323.5 | 324.2 |
| 27.5° | 326.5 | 325.9 | 321.3 | 320.7 | 321.6 | 323.1 | 323.0 | 323.1 | 325.3 | 329.1 | 330.0 |
| 30° | 336.0 | 335.7 | 332.4 | 332.8 | 332.4 | 331.9 | 332.0 | 333.0 | 334.2 | 337.2 | 338.1 |
| 32.5° | 345.1 | 345.4 | 343.4 | 345.3 | 348.1 | 350.0 | 347.1 | 344.2 | 343.0 | 344.6 | 345.4 |
| 35° | 361.7 | 362.3 | 359.2 | 357.9 | 361.7 | 367.3 | 359.0 | 354.4 | 357.0 | 359.2 | 359.8 |
| 37.5° | 389.9 | 390.3 | 384.9 | 379.8 | 377.0 | 382.4 | 374.1 | 374.5 | 383.4 | 387.5 | 387.3 |
| 40° | 422.0 | 422.1 | 418.6 | 414.1 | 409.3 | 410.5 | 407.2 | 408.2 | 414.1 | 417.8 | 418.8 |
| 42.5° | 460.2 | 459.8 | 454.2 | 447.9 | 446.5 | 447.7 | 442.1 | 441.4 | 448.1 | 454.8 | 454.9 |
| 45° | 509.8 | 508.9 | 501.7 | 494.6 | 487.9 | 485.1 | 483.7 | 487.4 | 496.7 | 502.8 | 502.9 |
| 47.5° | 563.2 | 560.8 | 557.0 | 551.4 | 545.5 | 542.7 | 540.4 | 542.2 | 548.9 | 551.4 | 551.6 |
| 50° | 618.1 | 618.7 | 619.4 | 617.3 | 615.1 | 614.2 | 608.2 | 604.8 | 606.8 | 602.3 | 601.7 |
| 52.5° | 683.3 | 684.3 | 691.7 | 697.9 | 701.6 | 703.5 | 692.2 | 680.3 | 673.7 | 665.0 | 662.5 |
| 55° | 760.1 | 761.8 | 772.6 | 790.0 | 807.8 | 817.2 | 796.7 | 774.5 | 754.0 | 737.8 | 732.6 |
| 57.5° | 845.8 | 848.7 | 863.6 | 896.9 | 933.5 | 955.8 | 921.1 | 880.8 | 841.2 | 817.9 | 813.8 |
| 60° | 946.2 | 949.0 | 969.7 | 1017.3 | 1076.6 | 1110.1 | 1057.6 | 991.7 | 942.4 | 920.1 | 912.6 |
| 62.5° | 1065.8 | 1066.0 | 1091.4 | 1147.1 | 1225.3 | 1272.0 | 1200.9 | 1112.8 | 1061.9 | 1035.0 | 1027.8 |
| 65° | 1194.4 | 1195.0 | 1221.3 | 1281.4 | 1362.3 | 1413.1 | 1332.8 | 1241.0 | 1178.8 | 1139.2 | 1133.6 |
| 67.5° | 1285.2 | 1287.9 | 1315.6 | 1388.0 | 1463.7 | 1509.4 | 1426.3 | 1322.6 | 1250.7 | 1203.4 | 1198.7 |
| 70° | 1270.7 | 1281.2 | 1313.7 | 1398.2 | 1503.4 | 1568.7 | 1441.5 | 1312.9 | 1218.1 | 1162.2 | 1158.3 |
| 72.5° | 1108.2 | 1128.2 | 1171.5 | 1282.4 | 1450.8 | 1540.6 | 1358.8 | 1175.9 | 1068.6 | 1021.0 | 1013.9 |
| 75° | 754.6 | 787.1 | 852.5 | 1012.5 | 1239.5 | 1333.9 | 1143.9 | 937.5 | 836.6 | 770.8 | 766.0 |
| 77.5° | 336.5 | 343.9 | 426.7 | 610.9 | 855.3 | 957.9 | 831.1 | 613.3 | 460.4 | 367.2 | 347.6 |
| 80° | 93.8 | 95.0 | 126.7 | 227.5 | 428.1 | 562.8 | 459.6 | 239.0 | 134.3 | 94.7 | 89.2 |
| 82.5° | 29.8 | 32.4 | 39.5 | 59.0 | 143.9 | 256.8 | 147.7 | 63.7 | 45.4 | 36.2 | 32.6 |
| 85° | 14.5 | 14.4 | 20.0 | 24.0 | 36.7 | 56.8 | 39.1 | 29.6 | 25.9 | 17.2 | 15.5 |
| 87.5° | 6.1 | 6.2 | 9.3 | 8.4 | 10.7 | 9.2 | 12.6 | 13.3 | 13.9 | 7.6 | 6.6 |
| 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)