

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: P573012

Luminaire Tested: **ARCH-S-PA2-20-760-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-20-760-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3810.1 lumens
Efficiency: N/A
Efficacy: 162.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

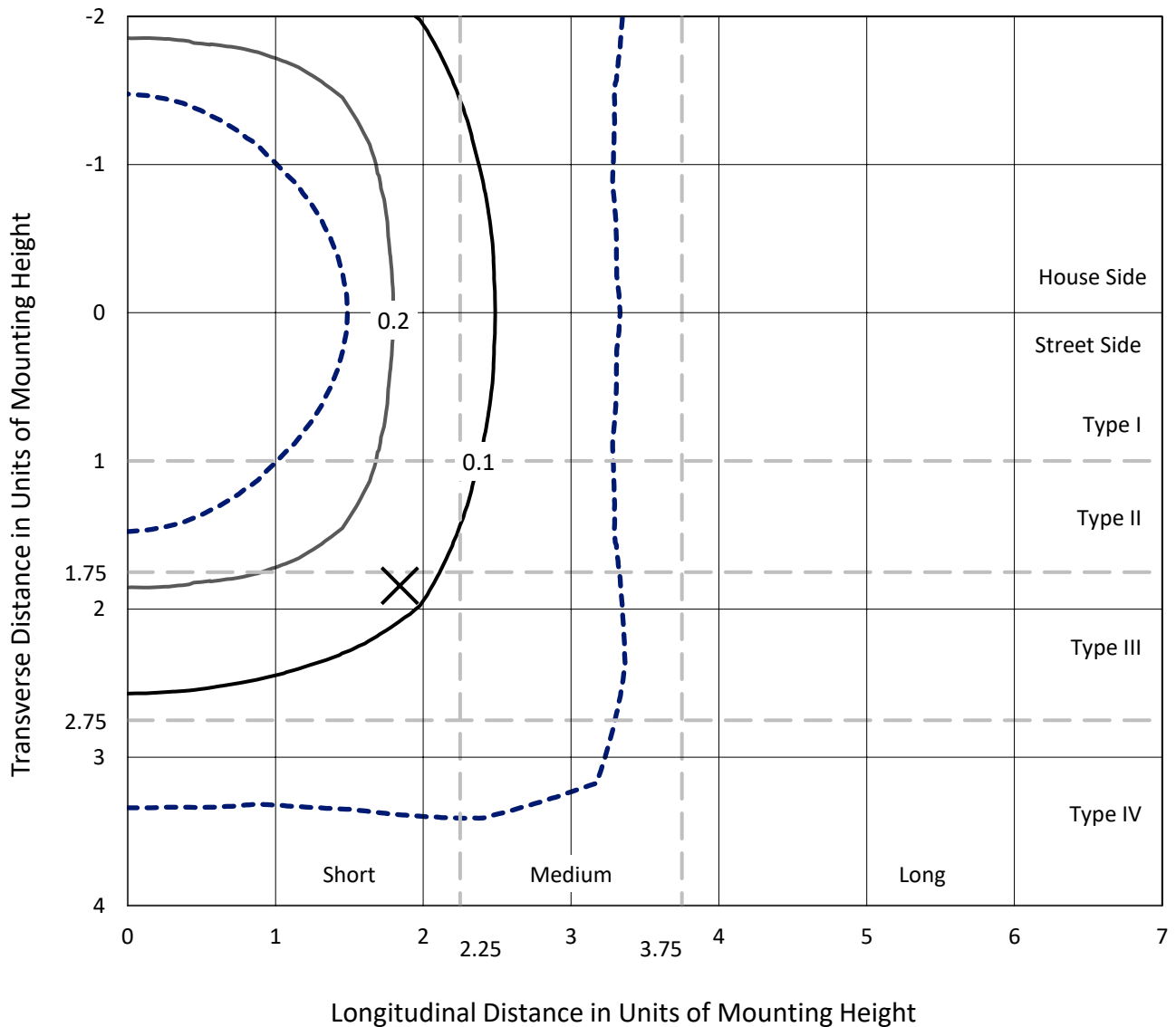
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

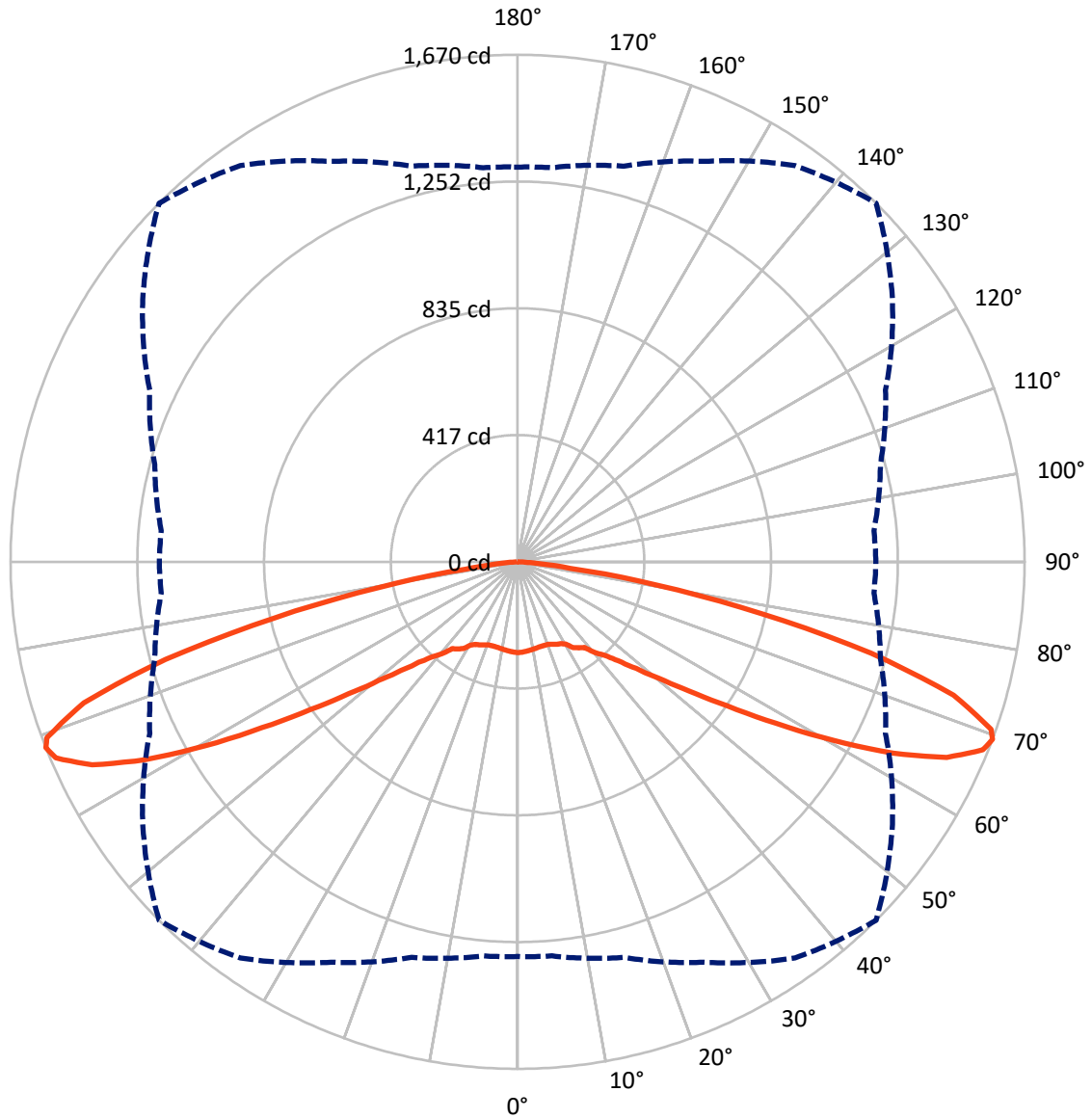
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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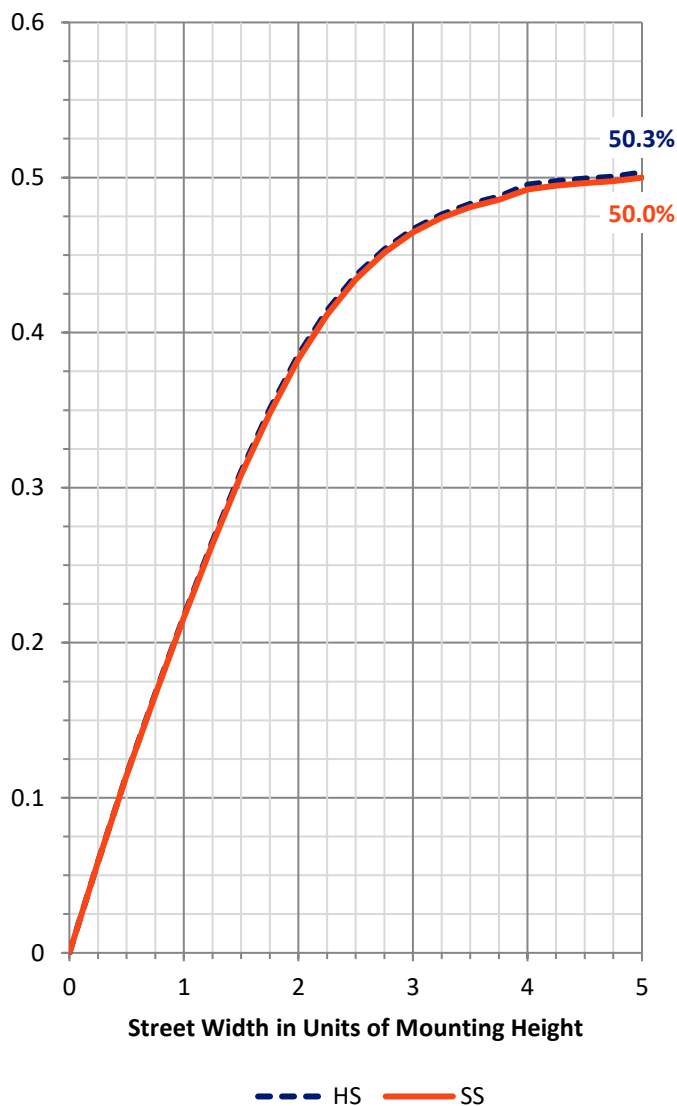
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1905.0 | 0.0 | 1905.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1905.0 | 0.0 | 1905.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3810.1 | 0.0 | 3810.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 28.2 | 0.7 |
| 10°-20° | 82.8 | 2.2 |
| 20°-30° | 140.4 | 3.7 |
| 30°-40° | 218.4 | 5.7 |
| 40°-50° | 374.8 | 9.8 |
| 50°-60° | 745.7 | 19.6 |
| 60°-70° | 1328.4 | 34.9 |
| 70°-80° | 836.6 | 22.0 |
| 80°-90° | 54.6 | 1.4 |
| 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° | 3810.1 | 100.0 |
| 0°-180° | 3810.1 | 100.0 |

Coefficient of Utilization



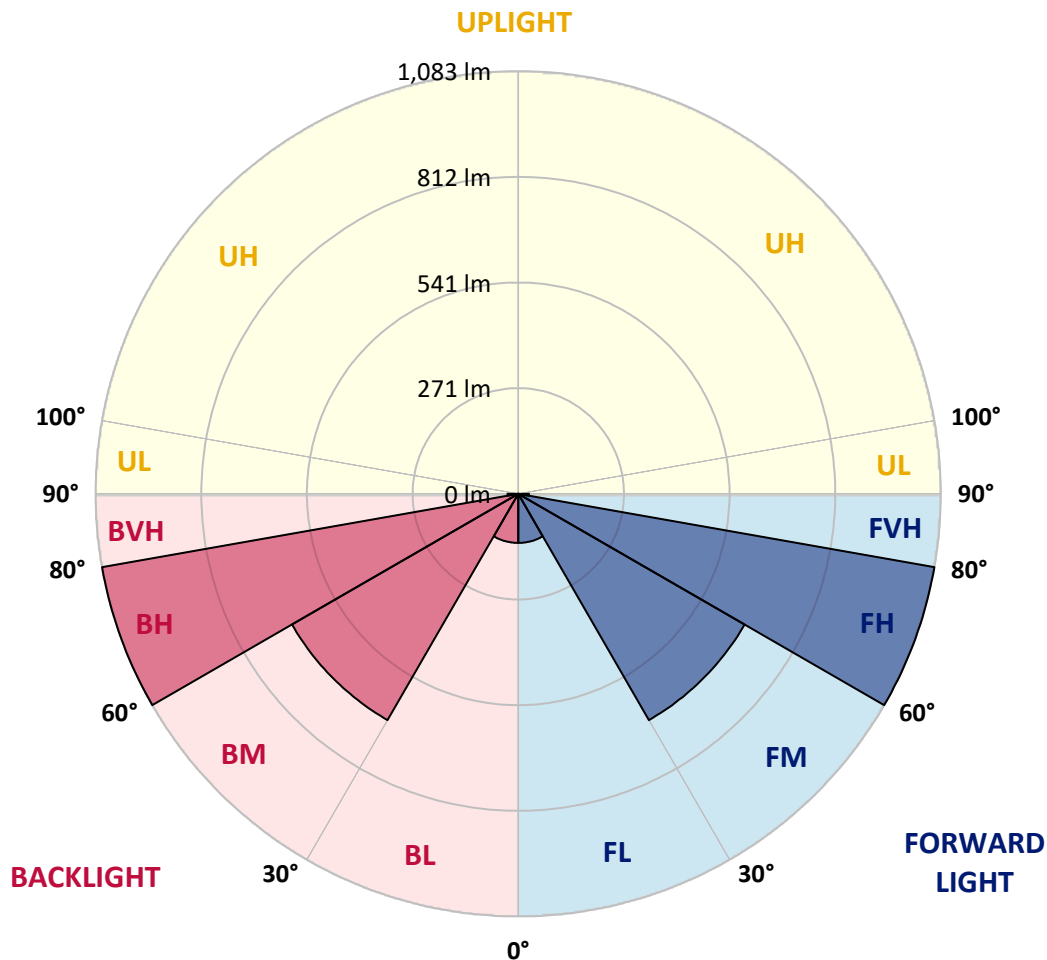
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 125.7 | 3.3 | | | |
| FM (30°-60°) | 669.5 | 17.6 | | | |
| FH (60°-80°) | 1082.5 | 28.4 | | | G1/1800 |
| FVH (80°-90°) | 27.3 | 0.7 | | | G1/100 |
| BL (0°-30°) | 125.7 | 3.3 | B1/500 | | |
| BM (30°-60°) | 669.5 | 17.6 | B1/1000 | | |
| BH (60°-80°) | 1082.5 | 28.4 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 27.3 | 0.7 | | | 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° | 299.0 | 299.0 | 299.0 | 299.0 | 299.0 | 299.0 | 299.0 | 299.0 | 299.0 | 299.0 | 299.0 |
| 2.5° | 301.0 | 300.0 | 300.0 | 299.0 | 298.0 | 298.0 | 298.0 | 297.0 | 298.0 | 298.0 | 298.0 |
| 5° | 300.0 | 299.0 | 298.0 | 297.0 | 297.0 | 296.0 | 297.0 | 296.0 | 296.0 | 296.0 | 296.0 |
| 7.5° | 297.0 | 297.0 | 295.0 | 295.0 | 294.0 | 294.0 | 293.0 | 293.0 | 293.0 | 292.0 | 292.0 |
| 10° | 297.0 | 296.0 | 295.0 | 293.0 | 292.0 | 292.0 | 292.0 | 291.0 | 292.0 | 292.0 | 292.0 |
| 12.5° | 297.0 | 297.0 | 294.0 | 292.0 | 290.0 | 290.0 | 290.0 | 290.0 | 292.0 | 293.0 | 293.0 |
| 15° | 299.0 | 298.0 | 295.0 | 291.0 | 289.0 | 289.0 | 289.0 | 290.0 | 292.0 | 294.0 | 294.0 |
| 17.5° | 300.0 | 298.0 | 294.0 | 290.0 | 289.0 | 289.0 | 289.0 | 290.0 | 293.0 | 295.0 | 296.0 |
| 20° | 301.0 | 300.0 | 295.0 | 291.0 | 290.0 | 290.0 | 290.0 | 290.0 | 293.0 | 296.0 | 297.0 |
| 22.5° | 304.0 | 303.0 | 298.0 | 295.0 | 294.0 | 294.0 | 294.0 | 294.0 | 297.0 | 301.0 | 301.0 |
| 25° | 308.0 | 306.0 | 301.0 | 299.0 | 299.0 | 301.0 | 301.0 | 299.0 | 302.0 | 305.0 | 306.0 |
| 27.5° | 315.0 | 313.0 | 308.0 | 306.0 | 305.0 | 305.0 | 305.0 | 305.0 | 307.0 | 312.0 | 312.0 |
| 30° | 321.0 | 320.0 | 318.0 | 318.0 | 317.0 | 315.0 | 315.0 | 317.0 | 318.0 | 320.0 | 321.0 |
| 32.5° | 329.0 | 327.0 | 325.0 | 325.0 | 331.0 | 337.0 | 332.0 | 324.0 | 323.0 | 324.0 | 325.0 |
| 35° | 346.0 | 344.0 | 339.0 | 336.0 | 342.0 | 348.0 | 340.0 | 335.0 | 338.0 | 341.0 | 341.0 |
| 37.5° | 370.0 | 369.0 | 365.0 | 359.0 | 357.0 | 358.0 | 355.0 | 359.0 | 367.0 | 373.0 | 374.0 |
| 40° | 395.0 | 394.0 | 390.0 | 387.0 | 388.0 | 393.0 | 391.0 | 387.0 | 392.0 | 396.0 | 396.0 |
| 42.5° | 434.0 | 430.0 | 424.0 | 416.0 | 417.0 | 421.0 | 416.0 | 420.0 | 427.0 | 434.0 | 435.0 |
| 45° | 486.0 | 482.0 | 474.0 | 467.0 | 462.0 | 464.0 | 464.0 | 471.0 | 479.0 | 487.0 | 490.0 |
| 47.5° | 542.0 | 541.0 | 533.0 | 527.0 | 522.0 | 525.0 | 525.0 | 525.0 | 538.0 | 546.0 | 546.0 |
| 50° | 611.0 | 608.0 | 608.0 | 603.0 | 601.0 | 602.0 | 598.0 | 602.0 | 608.0 | 610.0 | 607.0 |
| 52.5° | 692.9 | 689.9 | 691.9 | 693.9 | 698.9 | 705.9 | 695.9 | 694.9 | 691.9 | 688.9 | 687.9 |
| 55° | 790.9 | 793.9 | 801.9 | 814.9 | 822.9 | 836.9 | 821.9 | 803.9 | 795.9 | 787.9 | 781.9 |
| 57.5° | 907.9 | 912.9 | 924.9 | 955.9 | 989.9 | 1002.9 | 976.9 | 943.9 | 915.9 | 892.9 | 897.9 |
| 60° | 1060.9 | 1057.9 | 1077.9 | 1119.9 | 1167.9 | 1193.9 | 1152.9 | 1098.9 | 1053.9 | 1042.9 | 1045.9 |
| 62.5° | 1223.9 | 1229.9 | 1243.9 | 1299.9 | 1359.9 | 1387.9 | 1337.9 | 1257.9 | 1199.9 | 1169.9 | 1169.9 |
| 65° | 1325.9 | 1329.9 | 1368.9 | 1447.9 | 1514.9 | 1552.9 | 1481.9 | 1365.9 | 1282.9 | 1232.9 | 1229.9 |
| 67.5° | 1340.9 | 1344.9 | 1388.9 | 1489.9 | 1599.9 | 1652.9 | 1529.9 | 1378.9 | 1281.9 | 1220.9 | 1218.9 |
| 69° | 1299.9 | 1302.9 | 1348.9 | 1454.9 | 1592.9 | 1669.9 | 1506.9 | 1336.9 | 1236.9 | 1177.9 | 1179.9 |
| 70° | 1240.9 | 1252.9 | 1287.9 | 1395.9 | 1555.9 | 1654.9 | 1464.9 | 1289.9 | 1185.9 | 1138.9 | 1130.9 |
| 72.5° | 972.9 | 980.9 | 1038.9 | 1172.9 | 1388.9 | 1501.9 | 1286.9 | 1091.9 | 985.9 | 936.9 | 948.9 |
| 75° | 551.0 | 549.0 | 623.0 | 814.9 | 1070.9 | 1202.9 | 1012.9 | 785.9 | 632.0 | 573.0 | 581.0 |
| 77.5° | 210.0 | 219.0 | 269.0 | 418.0 | 672.9 | 821.9 | 671.9 | 420.0 | 294.0 | 229.0 | 218.0 |
| 80° | 68.0 | 72.0 | 95.0 | 152.0 | 287.0 | 464.0 | 314.0 | 162.0 | 102.0 | 77.0 | 72.0 |
| 82.5° | 27.0 | 30.0 | 36.0 | 51.0 | 97.0 | 175.0 | 106.0 | 59.0 | 44.0 | 36.0 | 33.0 |
| 85° | 15.0 | 14.0 | 19.0 | 23.0 | 33.0 | 50.0 | 36.0 | 28.0 | 24.0 | 17.0 | 16.0 |
| 87.5° | 5.0 | 5.0 | 8.0 | 8.0 | 9.0 | 8.0 | 9.0 | 10.0 | 10.0 | 6.0 | 5.0 |
| 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)