

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: P526454

Luminaire Tested: **GLAN-SA1B-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1B-830-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4039 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

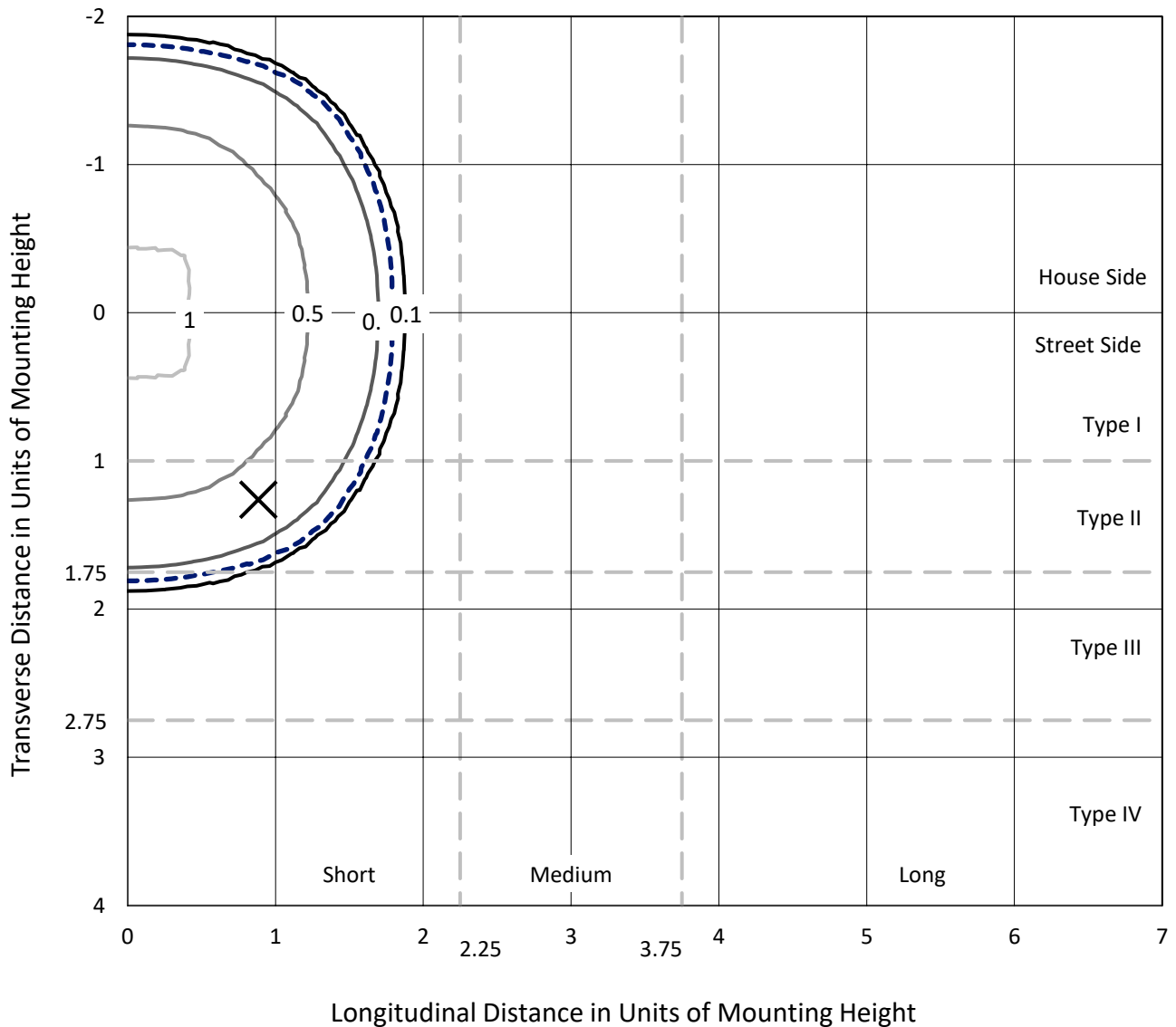
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

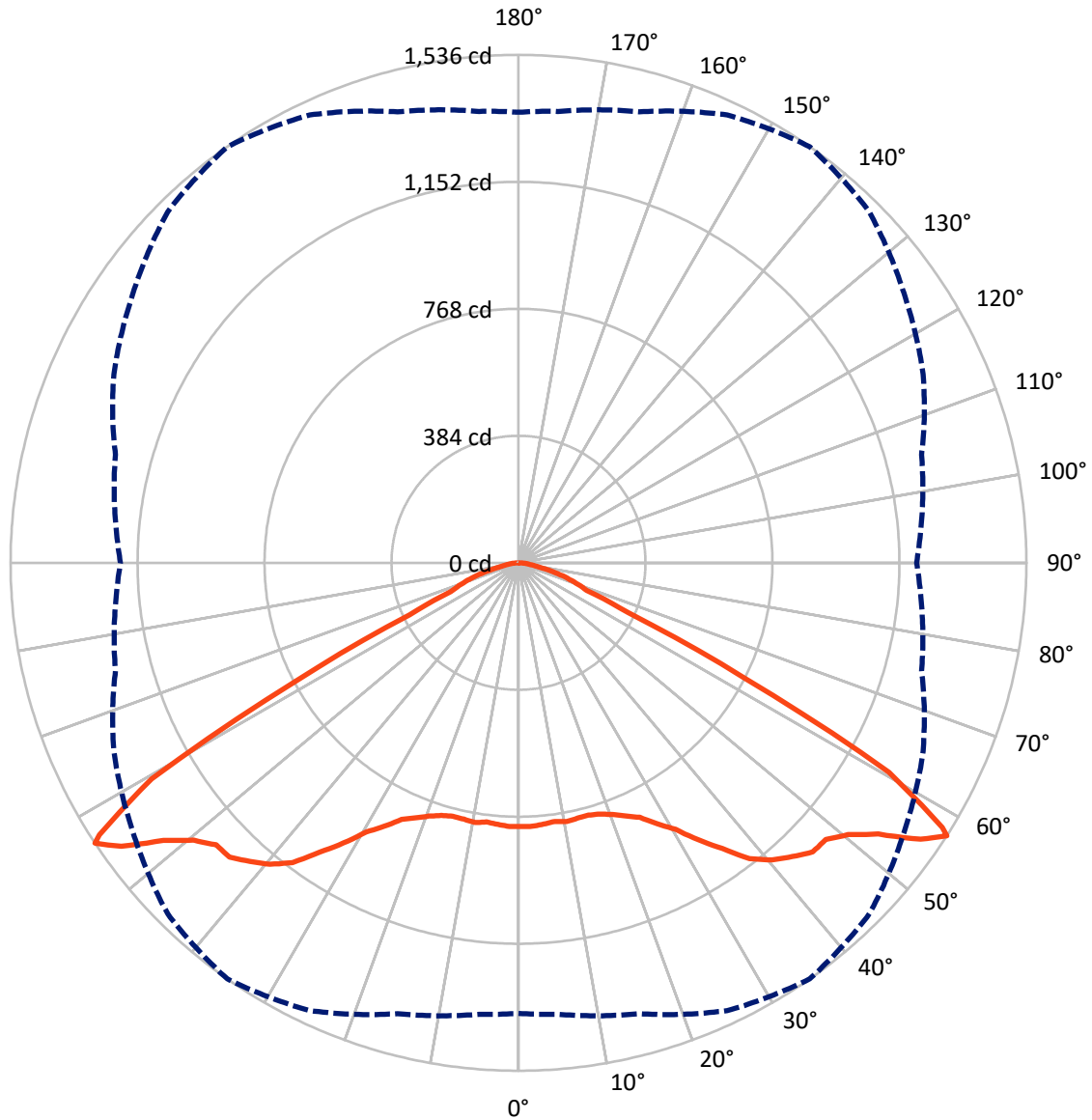
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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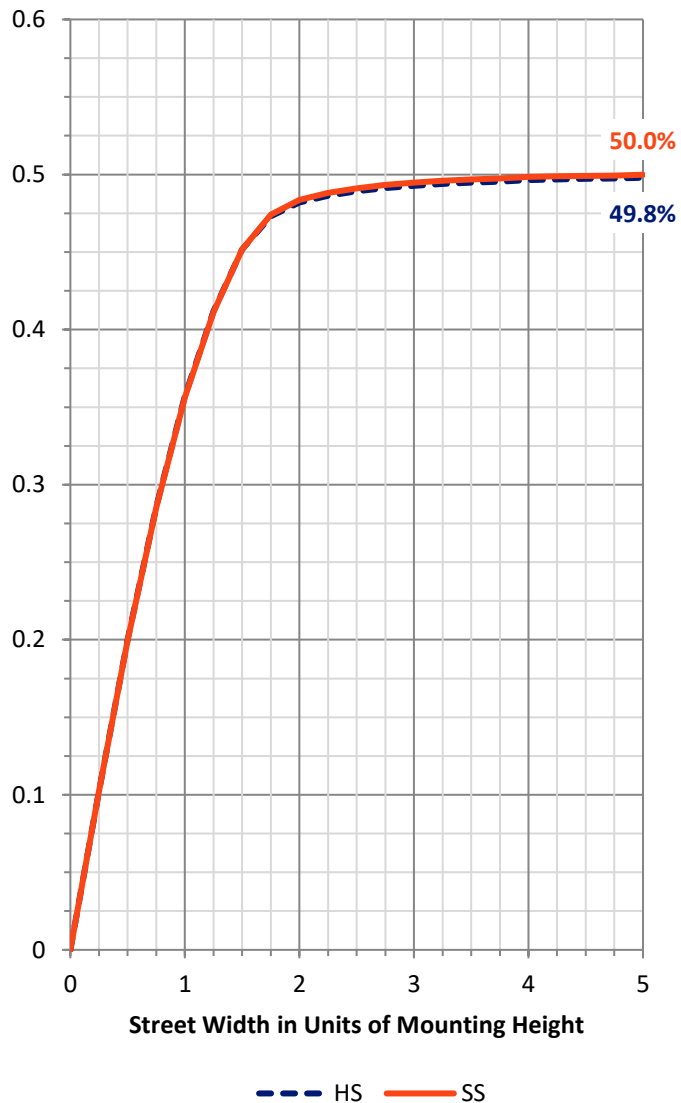
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2019.5 | 0.0 | 2019.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2019.5 | 0.0 | 2019.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4039.0 | 0.0 | 4039.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 75.6 | 1.9 |
| 10°-20° | 224.0 | 5.5 |
| 20°-30° | 391.2 | 9.7 |
| 30°-40° | 640.9 | 15.9 |
| 40°-50° | 939.8 | 23.3 |
| 50°-60° | 1183.7 | 29.3 |
| 60°-70° | 445.2 | 11.0 |
| 70°-80° | 118.4 | 2.9 |
| 80°-90° | 20.3 | 0.5 |
| 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° | 4039.0 | 100.0 |
| 0°-180° | 4039.0 | 100.0 |

Coefficient of Utilization



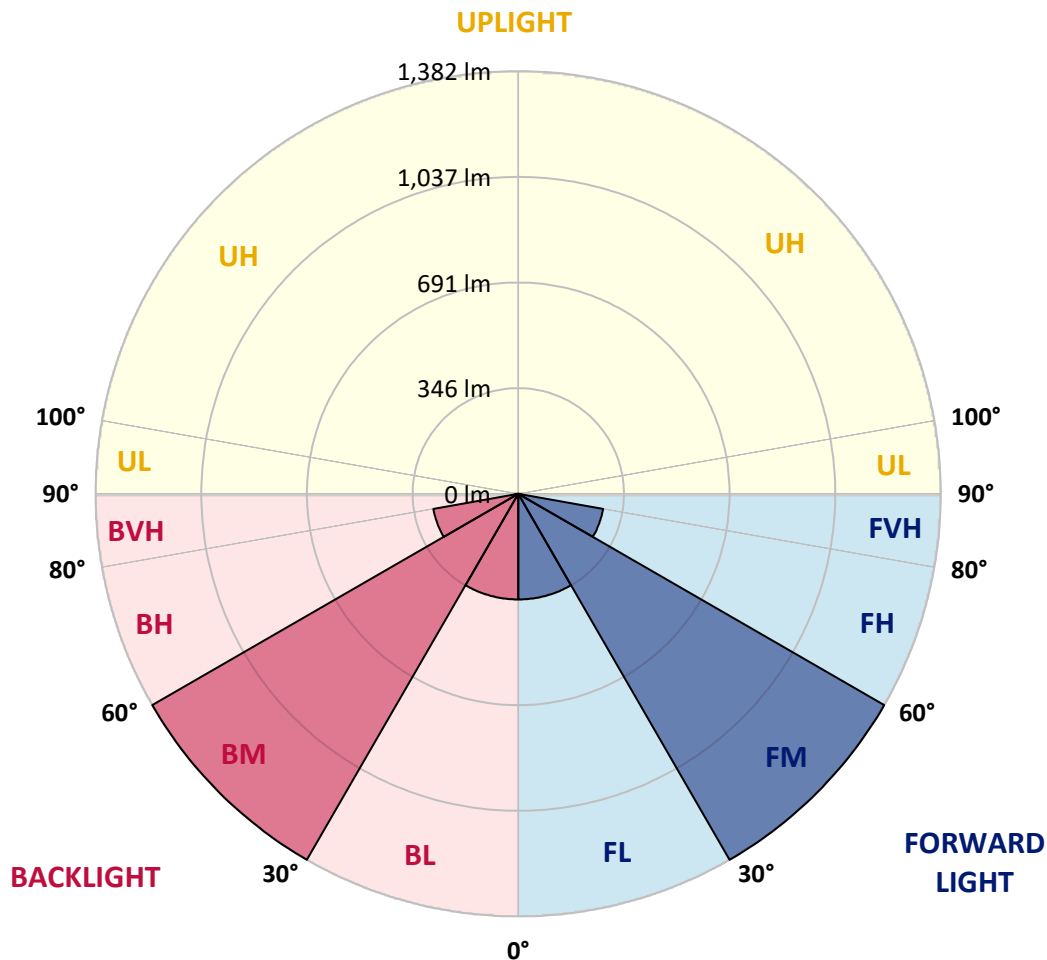
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 345.4 | 8.6 | | | |
| FM (30°-60°) | 1382.2 | 34.2 | | | |
| FH (60°-80°) | 281.8 | 7.0 | | | G0/660 |
| FVH (80°-90°) | 10.1 | 0.3 | | | G1/100 |
| BL (0°-30°) | 345.4 | 8.6 | B1/500 | | |
| BM (30°-60°) | 1382.2 | 34.2 | B2/2500 | | |
| BH (60°-80°) | 281.8 | 7.0 | B1/500 | | G0/660 |
| BVH (80°-90°) | 10.1 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 797.7 | 797.7 | 797.7 | 797.7 | 797.7 | 797.7 | 797.7 | 797.7 | 797.7 | 797.7 | 797.7 |
| 2.5° | 793.7 | 801.7 | 798.2 | 796.2 | 797.7 | 795.2 | 791.2 | 795.7 | 794.7 | 790.7 | 789.2 |
| 5° | 791.7 | 797.7 | 793.7 | 797.7 | 793.7 | 800.7 | 798.7 | 791.2 | 800.2 | 791.7 | 794.7 |
| 7.5° | 790.2 | 792.2 | 793.2 | 791.2 | 789.7 | 798.2 | 793.7 | 790.2 | 785.2 | 783.7 | 786.2 |
| 10° | 786.7 | 791.7 | 784.2 | 794.2 | 796.2 | 790.2 | 790.2 | 783.7 | 779.8 | 777.3 | 785.7 |
| 12.5° | 795.7 | 787.2 | 786.2 | 791.2 | 792.7 | 795.2 | 788.2 | 784.7 | 777.3 | 778.3 | 776.8 |
| 15° | 785.2 | 788.7 | 789.2 | 790.2 | 791.7 | 797.7 | 791.2 | 783.7 | 780.8 | 770.3 | 771.3 |
| 17.5° | 789.2 | 785.7 | 789.2 | 800.7 | 798.7 | 803.1 | 796.2 | 784.7 | 777.8 | 771.8 | 779.8 |
| 20° | 796.2 | 794.7 | 796.2 | 810.1 | 812.6 | 816.6 | 810.6 | 800.2 | 786.7 | 779.8 | 783.7 |
| 22.5° | 803.6 | 802.6 | 803.6 | 817.1 | 831.5 | 836.5 | 830.5 | 806.1 | 799.2 | 786.2 | 781.7 |
| 25° | 817.1 | 818.1 | 828.5 | 843.5 | 852.9 | 862.4 | 851.4 | 834.0 | 811.6 | 803.6 | 794.2 |
| 27.5° | 846.9 | 849.4 | 855.4 | 877.3 | 893.7 | 902.2 | 886.7 | 862.9 | 848.9 | 832.5 | 830.0 |
| 30° | 883.8 | 883.8 | 894.2 | 913.1 | 935.5 | 948.4 | 929.5 | 901.2 | 884.3 | 875.3 | 869.8 |
| 32.5° | 932.5 | 927.1 | 931.0 | 964.4 | 999.2 | 1010.2 | 984.8 | 949.9 | 923.1 | 911.1 | 907.1 |
| 35° | 974.3 | 977.8 | 986.8 | 1022.6 | 1061.4 | 1086.8 | 1047.0 | 1001.7 | 974.3 | 963.4 | 961.4 |
| 37.5° | 1028.6 | 1034.5 | 1039.0 | 1088.3 | 1135.1 | 1144.5 | 1106.2 | 1069.9 | 1036.5 | 1027.6 | 1022.6 |
| 40° | 1105.2 | 1101.2 | 1102.7 | 1139.0 | 1181.3 | 1187.3 | 1149.5 | 1123.6 | 1096.2 | 1090.8 | 1090.8 |
| 42.5° | 1168.4 | 1163.9 | 1168.9 | 1182.3 | 1214.7 | 1210.2 | 1189.3 | 1170.4 | 1158.9 | 1153.0 | 1158.9 |
| 45° | 1206.7 | 1205.7 | 1214.7 | 1224.6 | 1247.5 | 1232.6 | 1216.2 | 1219.2 | 1208.2 | 1198.3 | 1197.8 |
| 47.5° | 1248.5 | 1242.0 | 1253.0 | 1267.9 | 1250.5 | 1243.5 | 1242.5 | 1249.0 | 1245.5 | 1228.1 | 1222.6 |
| 50° | 1268.9 | 1266.4 | 1283.8 | 1301.3 | 1291.8 | 1275.9 | 1279.4 | 1289.8 | 1245.0 | 1221.6 | 1208.2 |
| 52.5° | 1323.6 | 1324.1 | 1357.5 | 1366.9 | 1363.0 | 1339.6 | 1347.0 | 1318.7 | 1265.9 | 1233.1 | 1234.6 |
| 55° | 1409.7 | 1406.3 | 1443.6 | 1471.4 | 1475.9 | 1446.1 | 1410.2 | 1370.4 | 1304.2 | 1270.9 | 1260.9 |
| 57° | 1362.5 | 1370.4 | 1411.7 | 1494.3 | 1536.1 | 1500.8 | 1422.7 | 1350.0 | 1261.9 | 1221.6 | 1203.7 |
| 57.5° | 1299.3 | 1312.2 | 1383.9 | 1467.0 | 1510.8 | 1507.8 | 1407.2 | 1312.2 | 1233.6 | 1170.9 | 1172.4 |
| 60° | 951.9 | 954.4 | 1019.1 | 1151.0 | 1287.8 | 1290.8 | 1168.4 | 1042.5 | 954.9 | 886.7 | 896.2 |
| 62.5° | 502.1 | 513.5 | 539.4 | 645.4 | 763.8 | 792.7 | 718.6 | 653.9 | 578.2 | 526.5 | 531.5 |
| 65° | 265.7 | 264.2 | 276.7 | 306.5 | 364.7 | 379.7 | 369.7 | 318.5 | 292.1 | 283.6 | 284.1 |
| 67.5° | 216.0 | 218.5 | 217.0 | 218.5 | 222.4 | 228.9 | 227.4 | 229.4 | 230.9 | 233.4 | 232.9 |
| 70° | 183.1 | 183.1 | 184.1 | 184.6 | 184.6 | 187.6 | 191.1 | 197.6 | 198.0 | 200.5 | 201.5 |
| 72.5° | 144.3 | 143.3 | 144.8 | 148.3 | 148.8 | 151.3 | 156.3 | 160.2 | 161.7 | 161.7 | 158.7 |
| 75° | 98.0 | 99.0 | 101.0 | 104.0 | 107.0 | 111.5 | 115.4 | 117.9 | 118.9 | 117.4 | 115.9 |
| 77.5° | 55.2 | 56.2 | 57.7 | 62.2 | 65.7 | 69.7 | 74.1 | 76.6 | 79.1 | 79.6 | 76.6 |
| 80° | 32.8 | 32.8 | 35.3 | 38.8 | 42.8 | 46.8 | 50.8 | 53.7 | 54.7 | 54.7 | 53.2 |
| 82.5° | 19.9 | 20.4 | 22.4 | 25.9 | 29.4 | 31.8 | 35.3 | 37.8 | 39.8 | 39.3 | 38.3 |
| 85° | 10.4 | 10.4 | 12.4 | 15.4 | 17.9 | 20.4 | 20.4 | 18.9 | 17.9 | 15.4 | 14.4 |
| 87.5° | 3.5 | 3.0 | 4.0 | 4.0 | 3.5 | 4.0 | 4.0 | 4.5 | 4.5 | 4.5 | 4.5 |
| 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)