

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: McGRAW-EDISON

Report Number: P651158

Luminaire Tested: **GALN-SA1D-840-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651158
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: McGRAW-EDISON
Catalog Number: GALN-SA1D-840-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3951 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

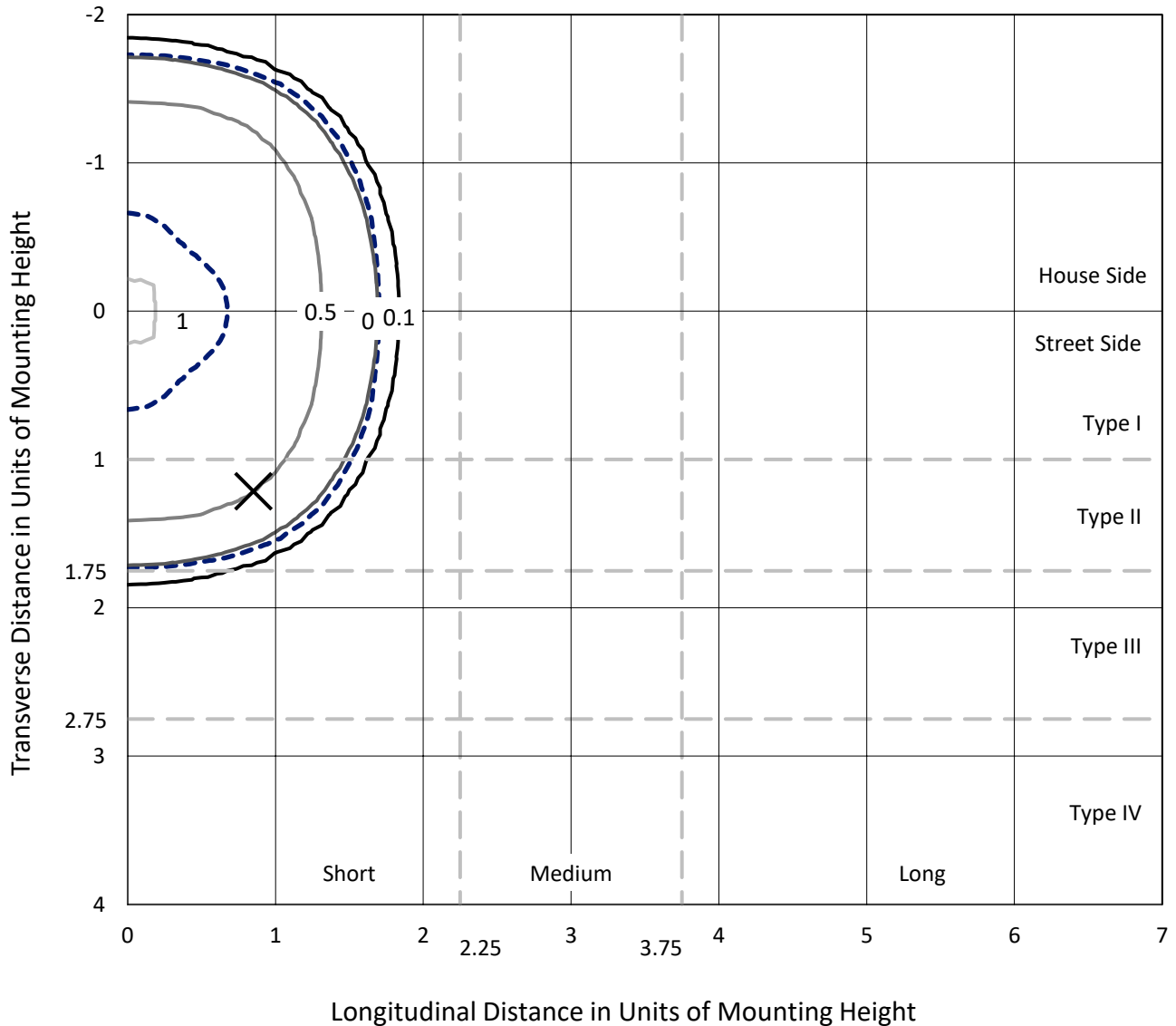
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

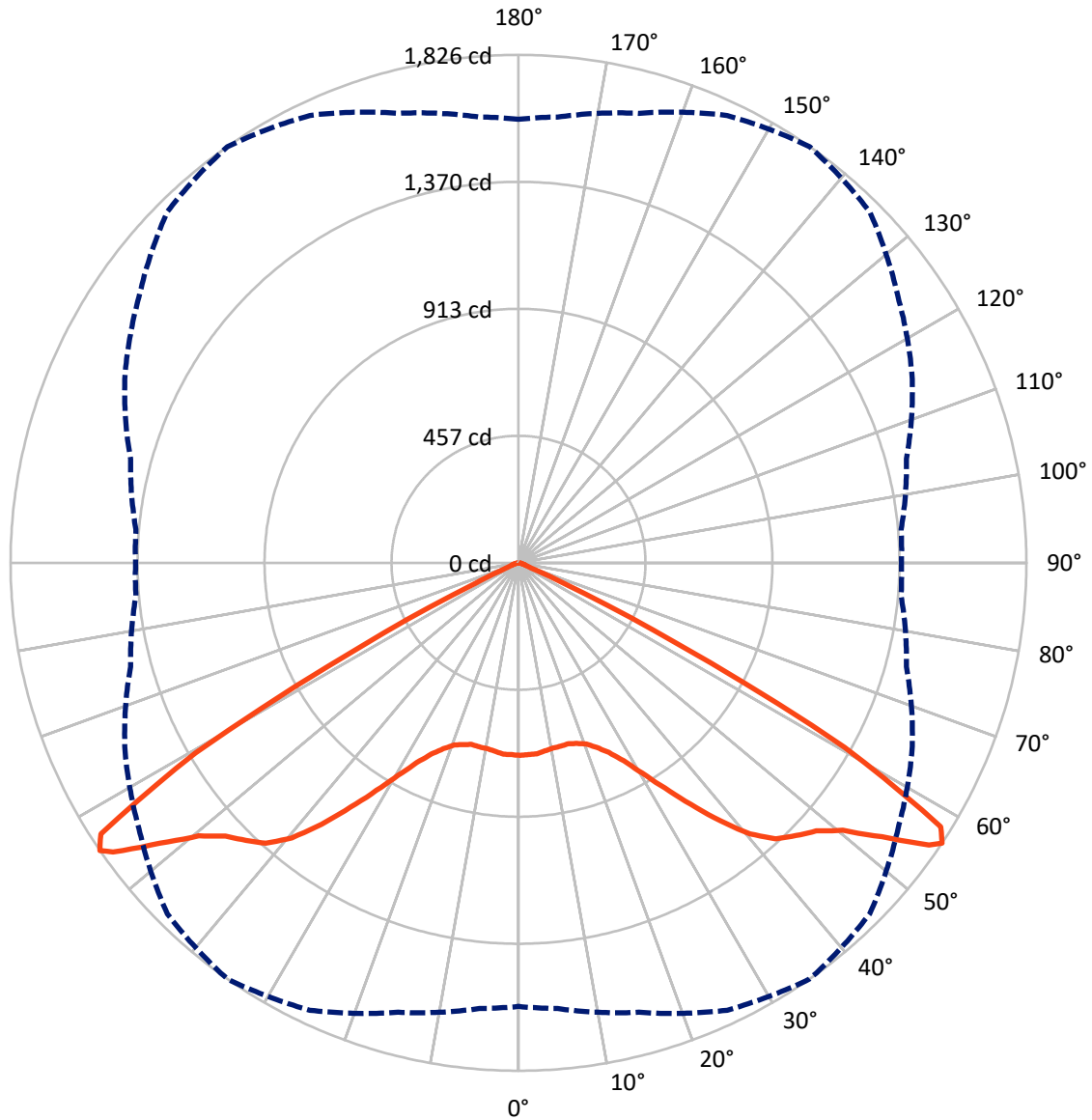
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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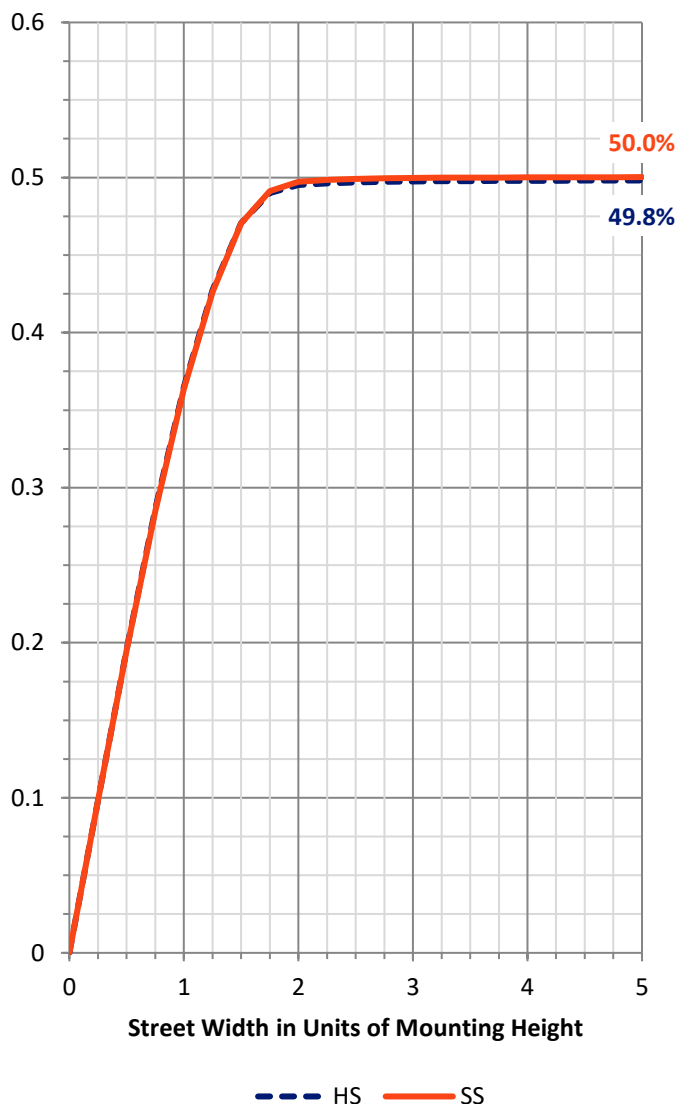
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1975.5 | 0.0 | 1975.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1975.5 | 0.0 | 1975.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3951.0 | 0.0 | 3951.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 65.1 | 1.6 |
| 10°-20° | 190.0 | 4.8 |
| 20°-30° | 344.0 | 8.7 |
| 30°-40° | 637.9 | 16.1 |
| 40°-50° | 1047.1 | 26.5 |
| 50°-60° | 1348.9 | 34.1 |
| 60°-70° | 297.3 | 7.5 |
| 70°-80° | 17.3 | 0.4 |
| 80°-90° | 3.6 | 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° | 3951.0 | 100.0 |
| 0°-180° | 3951.0 | 100.0 |

Coefficient of Utilization

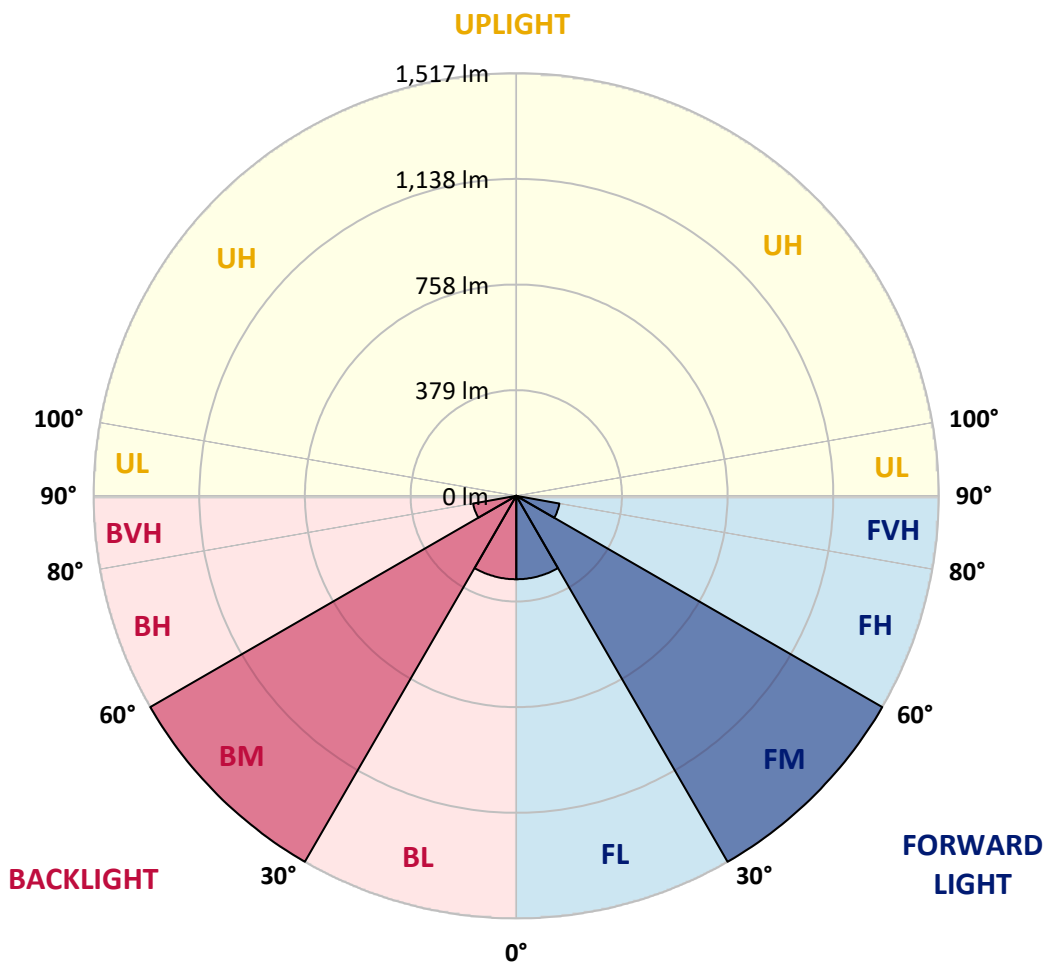


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 299.5 | 7.6 | | | |
| FM (30°-60°) | 1516.9 | 38.4 | | | |
| FH (60°-80°) | 157.3 | 4.0 | | | G0/660 |
| FVH (80°-90°) | 1.8 | 0.0 | | | G0/10 |
| BL (0°-30°) | 299.5 | 7.6 | B1/500 | | |
| BM (30°-60°) | 1516.9 | 38.4 | B2/2500 | | |
| BH (60°-80°) | 157.3 | 4.0 | B1/500 | | G0/660 |
| BVH (80°-90°) | 1.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 692.3 | 692.3 | 692.3 | 692.3 | 692.3 | 692.3 | 692.3 | 692.3 | 692.3 | 692.3 | 692.3 |
| 2.5° | 693.7 | 693.7 | 694.4 | 695.2 | 690.1 | 688.0 | 688.7 | 687.3 | 686.6 | 688.7 | 688.7 |
| 5° | 691.6 | 691.6 | 689.5 | 690.1 | 690.1 | 683.7 | 683.7 | 685.2 | 685.2 | 680.9 | 679.4 |
| 7.5° | 685.8 | 684.4 | 681.5 | 685.2 | 683.0 | 683.0 | 678.0 | 674.4 | 673.0 | 675.8 | 673.0 |
| 10° | 673.7 | 674.4 | 677.3 | 678.7 | 677.3 | 681.5 | 673.0 | 667.9 | 663.0 | 660.8 | 660.8 |
| 12.5° | 667.9 | 672.3 | 667.9 | 671.5 | 676.6 | 673.0 | 667.9 | 664.4 | 657.2 | 654.4 | 654.4 |
| 15° | 667.2 | 670.1 | 671.5 | 676.6 | 674.4 | 675.8 | 665.8 | 661.5 | 650.8 | 645.8 | 643.6 |
| 17.5° | 666.5 | 670.1 | 672.3 | 681.5 | 683.0 | 683.7 | 675.8 | 663.0 | 653.6 | 648.7 | 643.6 |
| 20° | 674.4 | 675.8 | 680.1 | 689.5 | 695.2 | 705.2 | 690.9 | 677.3 | 657.2 | 651.5 | 649.3 |
| 22.5° | 684.4 | 691.6 | 695.8 | 705.9 | 720.9 | 729.6 | 710.9 | 693.7 | 673.0 | 665.8 | 657.2 |
| 25° | 716.6 | 715.2 | 722.3 | 743.1 | 755.3 | 761.8 | 746.7 | 721.7 | 694.4 | 685.8 | 687.3 |
| 27.5° | 756.7 | 758.2 | 764.6 | 787.5 | 805.4 | 815.4 | 797.5 | 764.6 | 738.1 | 723.8 | 722.3 |
| 30° | 809.0 | 807.5 | 814.8 | 845.5 | 877.8 | 892.7 | 861.3 | 822.6 | 796.8 | 778.2 | 782.6 |
| 32.5° | 864.1 | 864.8 | 884.9 | 912.8 | 965.0 | 994.4 | 943.6 | 896.3 | 857.7 | 844.8 | 838.4 |
| 35° | 945.7 | 949.3 | 965.0 | 1008.0 | 1066.1 | 1104.0 | 1048.1 | 991.5 | 947.1 | 923.6 | 926.4 |
| 37.5° | 1046.7 | 1043.1 | 1069.6 | 1116.2 | 1177.0 | 1204.9 | 1157.6 | 1093.2 | 1048.1 | 1032.4 | 1042.4 |
| 40° | 1154.1 | 1157.6 | 1171.3 | 1213.5 | 1281.5 | 1300.1 | 1230.0 | 1194.9 | 1155.5 | 1147.6 | 1159.8 |
| 42.5° | 1261.5 | 1259.3 | 1269.3 | 1307.3 | 1356.7 | 1343.8 | 1302.3 | 1281.5 | 1253.6 | 1237.9 | 1254.3 |
| 45° | 1340.2 | 1336.6 | 1355.3 | 1381.0 | 1398.9 | 1374.6 | 1355.9 | 1348.8 | 1334.5 | 1317.3 | 1332.3 |
| 47.5° | 1416.8 | 1414.0 | 1431.9 | 1439.0 | 1440.5 | 1408.3 | 1411.8 | 1424.7 | 1388.9 | 1353.1 | 1370.3 |
| 50° | 1482.0 | 1477.0 | 1499.2 | 1514.9 | 1511.4 | 1459.8 | 1472.7 | 1459.8 | 1404.0 | 1361.7 | 1355.3 |
| 52.5° | 1590.8 | 1592.9 | 1616.6 | 1645.2 | 1636.6 | 1593.7 | 1575.0 | 1516.3 | 1444.8 | 1406.8 | 1384.6 |
| 55° | 1659.5 | 1648.8 | 1689.6 | 1780.5 | 1790.6 | 1746.2 | 1663.8 | 1577.2 | 1469.8 | 1423.3 | 1417.5 |
| 56° | 1595.1 | 1608.7 | 1673.1 | 1774.8 | 1826.3 | 1785.5 | 1665.9 | 1562.2 | 1444.0 | 1381.0 | 1376.7 |
| 57.5° | 1431.1 | 1424.0 | 1511.4 | 1650.2 | 1790.6 | 1773.3 | 1607.2 | 1454.8 | 1317.3 | 1246.4 | 1237.9 |
| 60° | 890.6 | 911.4 | 988.0 | 1159.8 | 1347.4 | 1355.9 | 1191.3 | 1060.3 | 900.0 | 836.9 | 851.9 |
| 62.5° | 348.7 | 330.8 | 378.7 | 506.9 | 635.7 | 664.4 | 602.1 | 500.4 | 410.9 | 348.7 | 344.4 |
| 65° | 80.9 | 78.7 | 88.8 | 122.4 | 171.1 | 198.3 | 188.3 | 135.3 | 99.5 | 94.5 | 87.4 |
| 67.5° | 45.8 | 45.8 | 43.6 | 43.6 | 47.9 | 50.8 | 48.7 | 47.9 | 50.1 | 52.2 | 51.6 |
| 70° | 32.2 | 31.5 | 30.1 | 30.8 | 29.4 | 29.4 | 31.5 | 35.1 | 37.9 | 37.9 | 38.7 |
| 72.5° | 19.3 | 19.3 | 19.3 | 21.4 | 21.4 | 21.4 | 23.6 | 26.5 | 27.2 | 26.5 | 25.7 |
| 75° | 8.6 | 8.6 | 10.0 | 12.2 | 13.6 | 14.3 | 16.5 | 17.9 | 19.3 | 17.9 | 16.5 |
| 77.5° | 2.2 | 2.2 | 3.6 | 5.0 | 6.5 | 7.9 | 10.8 | 12.9 | 13.6 | 12.9 | 10.8 |
| 80° | 0.8 | 0.8 | 1.4 | 3.6 | 6.5 | 7.9 | 10.8 | 11.4 | 12.2 | 10.8 | 8.6 |
| 82.5° | 0.8 | 0.8 | 1.4 | 3.6 | 5.0 | 6.5 | 8.6 | 10.0 | 10.8 | 9.3 | 8.6 |
| 85° | 0.0 | 0.8 | 1.4 | 2.9 | 4.3 | 5.7 | 5.7 | 4.3 | 3.6 | 2.2 | 2.9 |
| 87.5° | 0.0 | 0.0 | 0.8 | 0.8 | 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)