

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: P526250

Luminaire Tested: **GALN-SA1B-722-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-722-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2200K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3591 lumens
Efficiency: N/A
Efficacy: 81.6 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

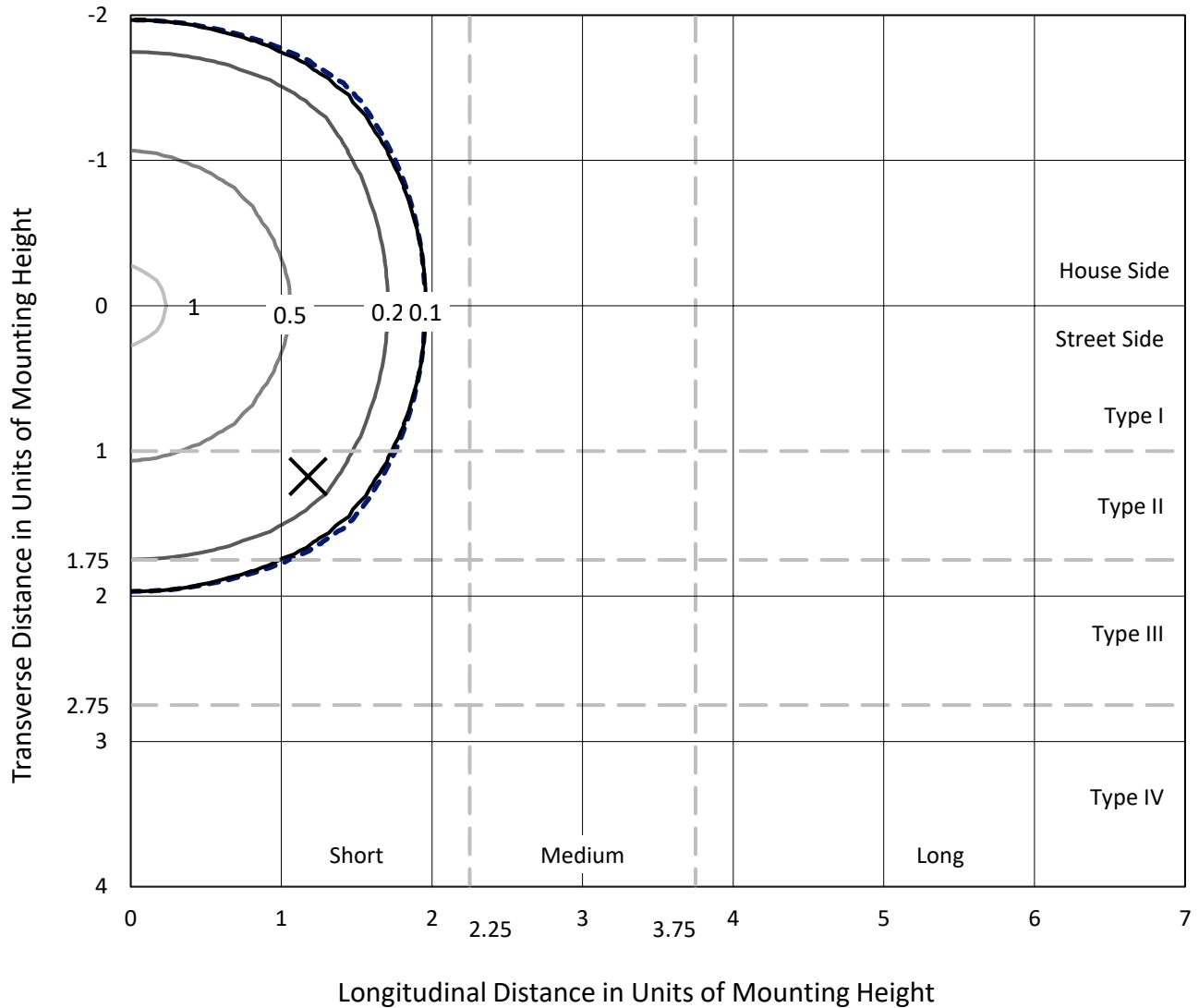
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

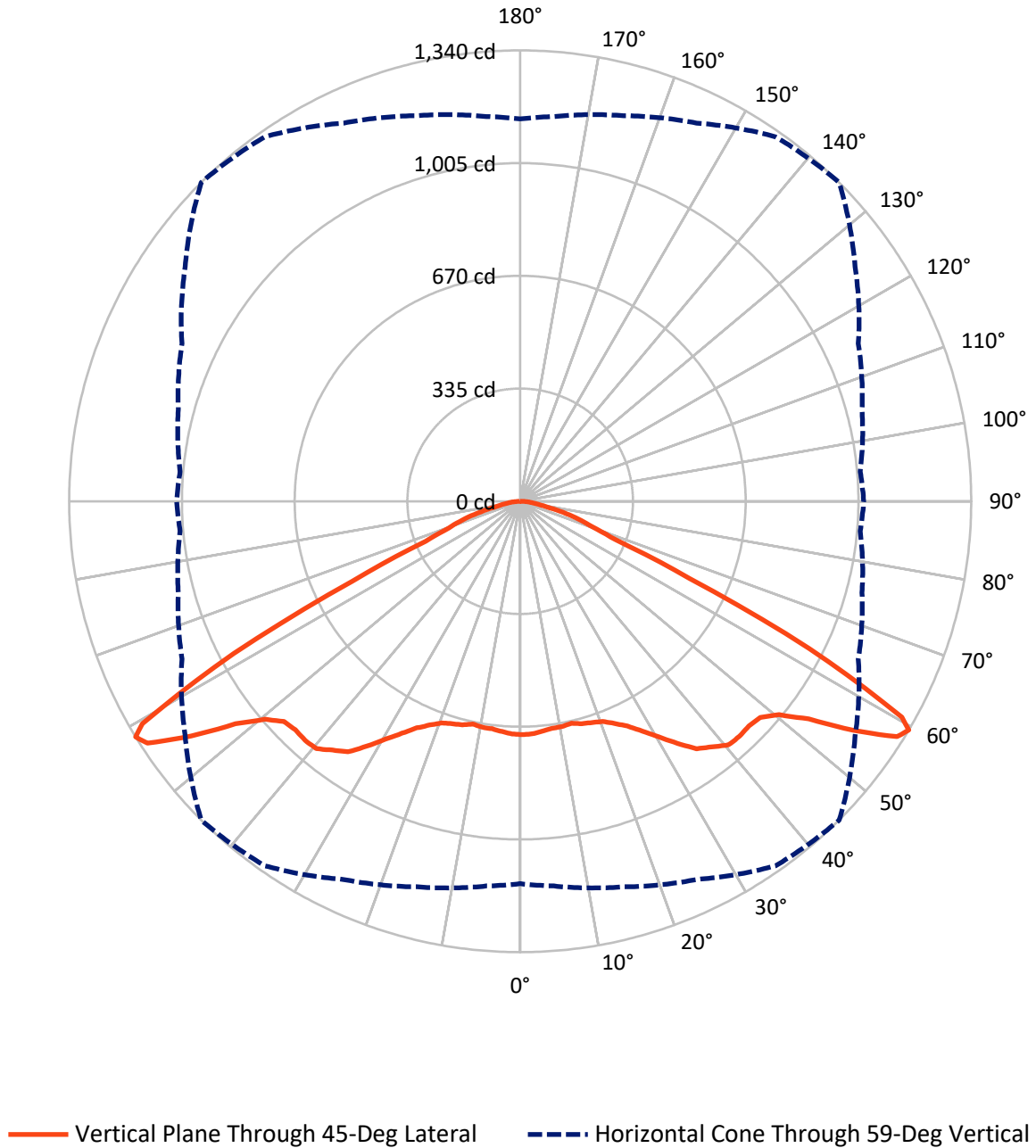
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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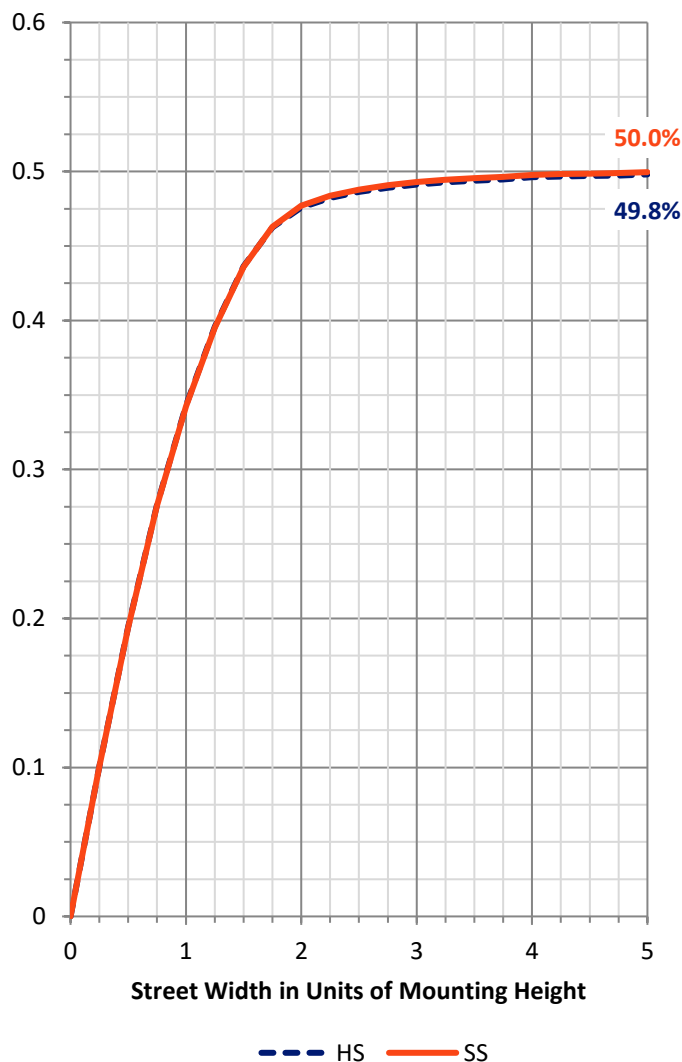
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1795.5 | 0.0 | 1795.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1795.5 | 0.0 | 1795.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3591.0 | 0.0 | 3591.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 65.4 | 1.8 |
| 10°-20° | 194.4 | 5.4 |
| 20°-30° | 339.5 | 9.5 |
| 30°-40° | 542.3 | 15.1 |
| 40°-50° | 738.7 | 20.6 |
| 50°-60° | 998.9 | 27.8 |
| 60°-70° | 547.8 | 15.3 |
| 70°-80° | 140.1 | 3.9 |
| 80°-90° | 23.9 | 0.7 |
| 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° | 3591.0 | 100.0 |
| 0°-180° | 3591.0 | 100.0 |

Coefficient of Utilization

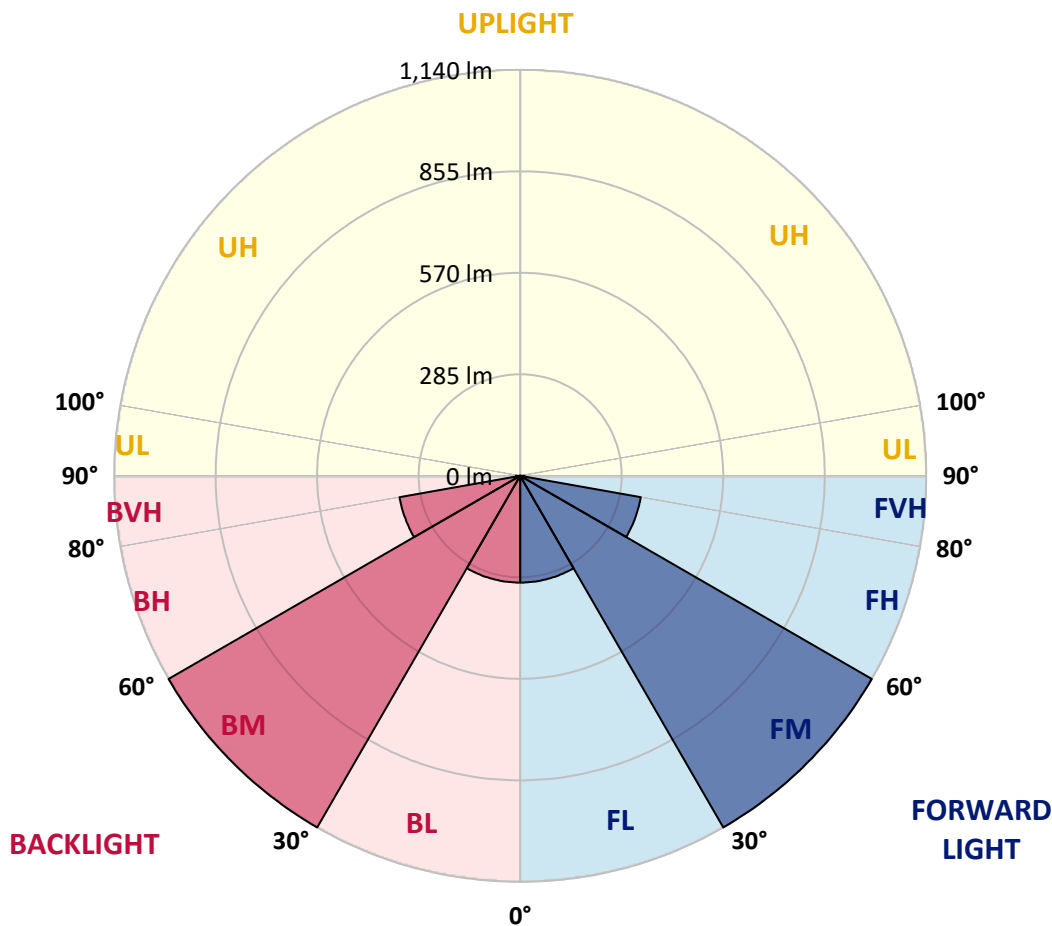


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 299.7 | 8.3 | | | |
| FM (30°-60°) | 1139.9 | 31.7 | | | |
| FH (60°-80°) | 344.0 | 9.6 | | | G0/660 |
| FVH (80°-90°) | 12.0 | 0.3 | | | G1/100 |
| BL (0°-30°) | 299.7 | 8.3 | B1/500 | | |
| BM (30°-60°) | 1139.9 | 31.7 | B2/2500 | | |
| BH (60°-80°) | 344.0 | 9.6 | B1/500 | | G0/660 |
| BVH (80°-90°) | 12.0 | 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° | 693.6 | 693.6 | 693.6 | 693.6 | 693.6 | 693.6 | 693.6 | 693.6 | 693.6 | 693.6 | 693.6 |
| 2.5° | 689.5 | 694.5 | 690.8 | 694.1 | 693.6 | 692.2 | 689.9 | 688.5 | 686.7 | 689.5 | 684.9 |
| 5° | 686.7 | 690.8 | 695.0 | 689.5 | 689.5 | 686.7 | 685.3 | 682.6 | 682.6 | 682.1 | 681.6 |
| 7.5° | 691.3 | 687.2 | 685.3 | 686.2 | 687.2 | 681.2 | 685.3 | 679.8 | 675.2 | 678.4 | 682.1 |
| 10° | 687.2 | 689.0 | 682.1 | 685.3 | 680.3 | 681.2 | 678.4 | 682.1 | 677.0 | 677.0 | 677.0 |
| 12.5° | 691.3 | 686.2 | 688.5 | 686.2 | 684.9 | 677.0 | 680.7 | 676.6 | 676.1 | 680.7 | 676.6 |
| 15° | 699.6 | 691.3 | 689.5 | 684.9 | 686.2 | 686.2 | 682.6 | 683.0 | 678.0 | 680.7 | 681.6 |
| 17.5° | 696.8 | 692.2 | 690.8 | 685.3 | 689.9 | 691.3 | 684.4 | 679.8 | 683.0 | 682.6 | 682.1 |
| 20° | 699.1 | 701.0 | 699.6 | 700.5 | 702.4 | 698.7 | 692.2 | 685.8 | 681.6 | 687.6 | 687.2 |
| 22.5° | 713.9 | 712.0 | 711.1 | 710.2 | 713.4 | 717.1 | 708.3 | 698.2 | 698.2 | 702.4 | 704.2 |
| 25° | 725.8 | 725.4 | 724.9 | 729.0 | 740.1 | 740.1 | 729.0 | 716.2 | 712.9 | 715.7 | 713.4 |
| 27.5° | 743.3 | 748.4 | 746.5 | 753.9 | 770.0 | 773.7 | 759.0 | 743.8 | 735.0 | 731.8 | 736.0 |
| 30° | 783.4 | 777.4 | 778.8 | 786.6 | 800.8 | 812.8 | 790.3 | 774.2 | 762.2 | 761.7 | 763.6 |
| 32.5° | 810.1 | 814.7 | 818.8 | 826.2 | 848.7 | 857.9 | 830.8 | 804.5 | 797.2 | 793.0 | 794.4 |
| 35° | 863.4 | 859.3 | 858.4 | 865.7 | 888.3 | 903.5 | 869.4 | 846.4 | 836.7 | 846.0 | 846.0 |
| 37.5° | 914.1 | 902.6 | 893.8 | 903.5 | 924.2 | 926.0 | 897.0 | 884.6 | 879.6 | 890.1 | 889.7 |
| 40° | 938.0 | 937.1 | 916.8 | 922.4 | 950.0 | 952.7 | 925.6 | 910.9 | 909.9 | 923.7 | 937.5 |
| 42.5° | 962.9 | 954.1 | 933.9 | 937.5 | 954.6 | 955.5 | 929.7 | 925.6 | 935.7 | 949.1 | 950.0 |
| 45° | 967.0 | 959.6 | 946.8 | 937.5 | 950.0 | 952.7 | 937.5 | 940.3 | 941.2 | 957.3 | 957.3 |
| 47.5° | 975.3 | 974.4 | 967.0 | 960.1 | 962.4 | 960.1 | 950.4 | 954.6 | 968.4 | 976.2 | 972.5 |
| 50° | 998.3 | 988.6 | 996.0 | 990.0 | 990.5 | 996.9 | 988.2 | 992.3 | 989.6 | 982.7 | 978.0 |
| 52.5° | 1048.9 | 1044.3 | 1050.8 | 1054.9 | 1059.5 | 1074.2 | 1064.1 | 1042.0 | 1021.3 | 1002.9 | 1002.4 |
| 55° | 1123.0 | 1126.3 | 1138.7 | 1159.9 | 1177.8 | 1201.3 | 1152.5 | 1099.6 | 1066.4 | 1037.4 | 1039.3 |
| 57.5° | 1193.0 | 1190.7 | 1207.7 | 1256.0 | 1308.5 | 1320.5 | 1224.7 | 1149.3 | 1095.4 | 1077.0 | 1069.2 |
| 59° | 1136.8 | 1147.9 | 1186.5 | 1240.4 | 1322.8 | 1340.3 | 1215.1 | 1108.8 | 1051.7 | 1014.4 | 1020.9 |
| 60° | 1048.5 | 1052.6 | 1087.1 | 1162.2 | 1273.5 | 1303.5 | 1150.2 | 1046.2 | 970.2 | 948.6 | 958.3 |
| 62.5° | 741.0 | 737.8 | 762.6 | 823.9 | 923.7 | 964.2 | 855.2 | 782.0 | 734.1 | 710.2 | 715.7 |
| 65° | 394.0 | 408.7 | 418.8 | 457.0 | 510.0 | 552.8 | 507.7 | 475.9 | 449.2 | 429.4 | 429.0 |
| 67.5° | 266.0 | 264.2 | 266.5 | 275.2 | 293.2 | 305.2 | 304.2 | 288.1 | 285.8 | 282.1 | 286.3 |
| 70° | 224.1 | 223.2 | 219.1 | 219.1 | 222.8 | 225.5 | 228.7 | 230.6 | 234.3 | 238.9 | 238.4 |
| 72.5° | 181.8 | 179.5 | 176.7 | 175.4 | 180.0 | 181.3 | 185.5 | 187.3 | 190.5 | 190.1 | 194.2 |
| 75° | 120.1 | 120.1 | 123.3 | 127.0 | 128.4 | 131.2 | 131.6 | 137.2 | 137.2 | 138.1 | 134.4 |
| 77.5° | 67.2 | 65.4 | 67.7 | 71.3 | 74.6 | 79.6 | 84.7 | 88.8 | 91.1 | 90.2 | 90.2 |
| 80° | 39.1 | 39.1 | 41.4 | 45.6 | 49.7 | 54.3 | 58.0 | 61.2 | 63.5 | 62.6 | 60.8 |
| 82.5° | 24.4 | 24.4 | 26.7 | 30.8 | 34.1 | 36.8 | 41.9 | 46.0 | 48.8 | 47.9 | 45.6 |
| 85° | 12.4 | 12.4 | 15.2 | 18.0 | 22.1 | 23.9 | 23.5 | 21.6 | 21.2 | 18.9 | 18.9 |
| 87.5° | 3.2 | 3.2 | 4.6 | 5.1 | 4.1 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 5.1 |
| 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)