

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: P526040

Luminaire Tested: **GALN-SA1A-727-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-727-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3486 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

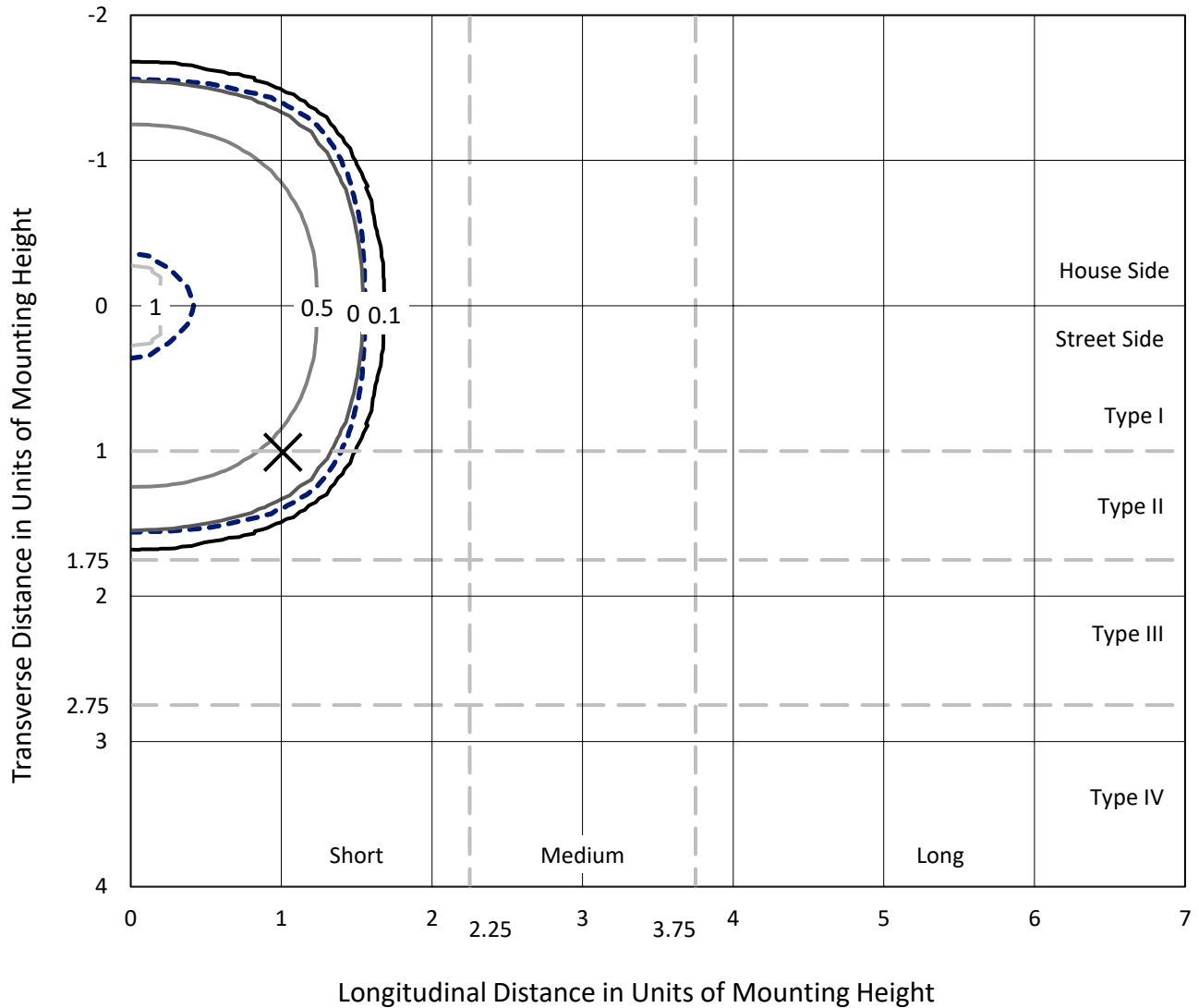
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

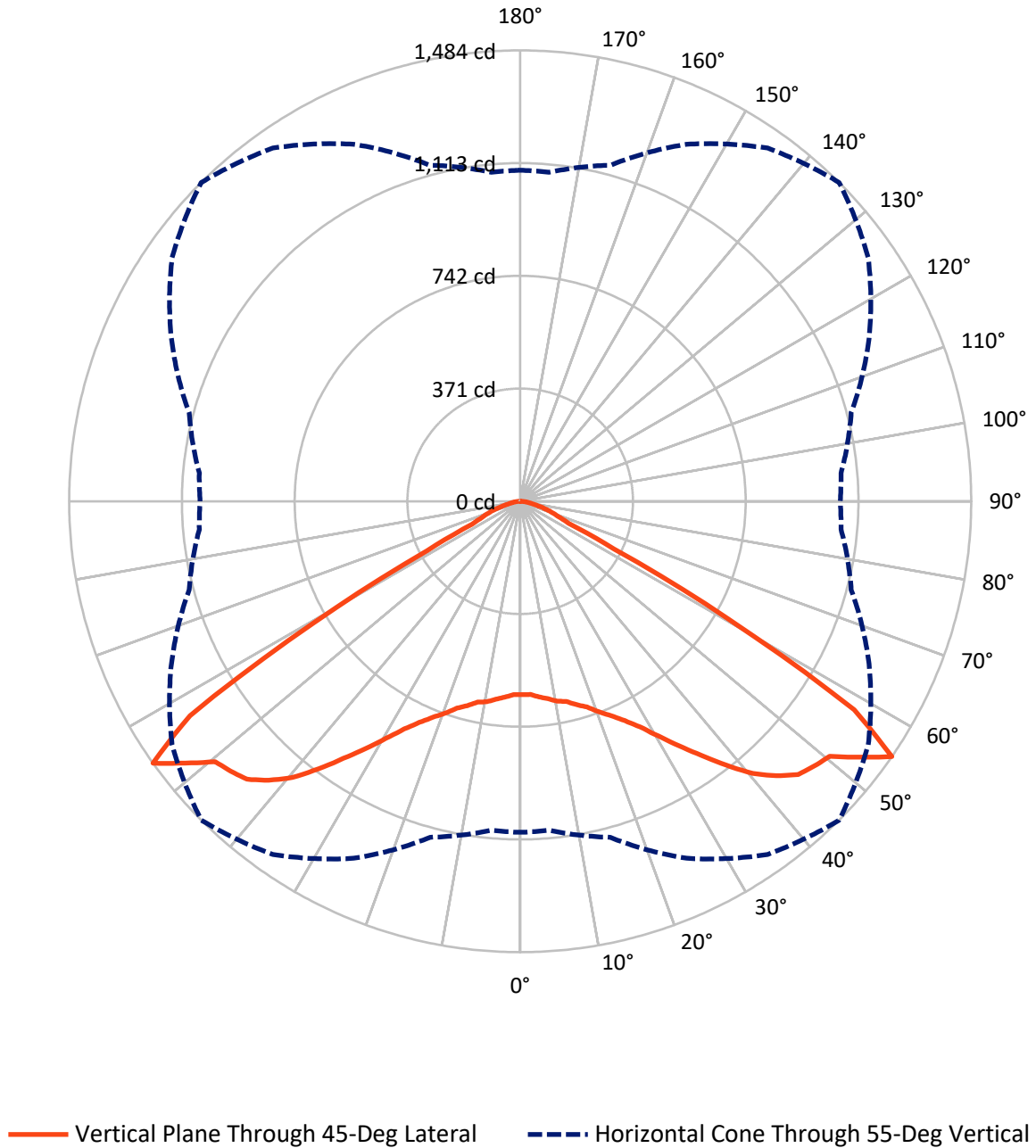
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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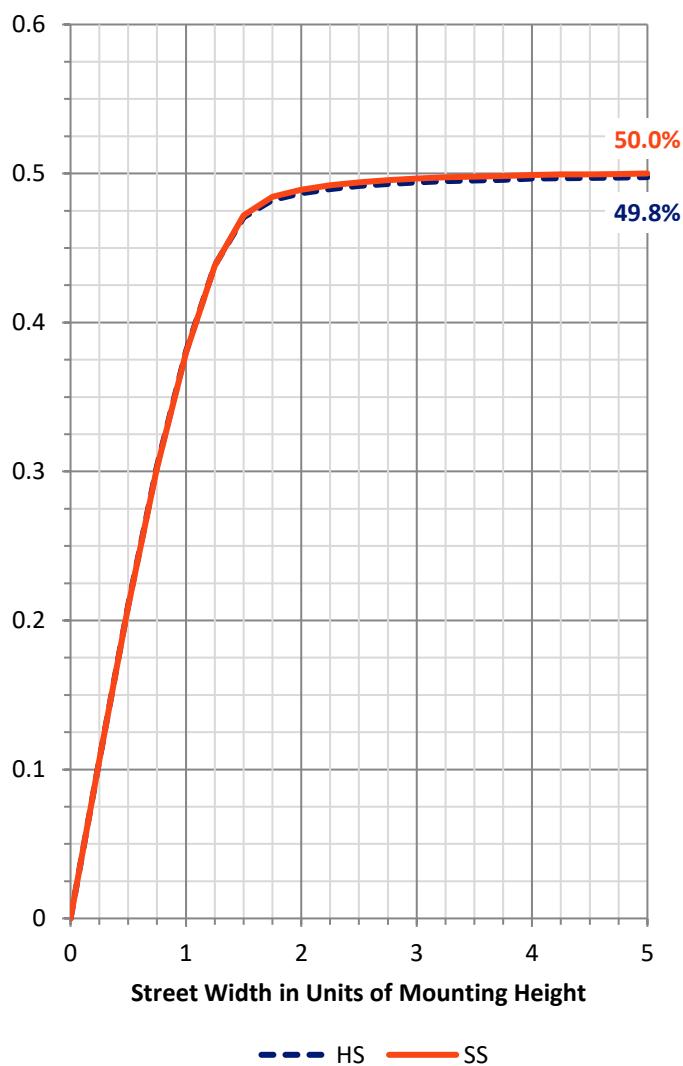
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1743.0 | 0.0 | 1743.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1743.0 | 0.0 | 1743.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3486.0 | 0.0 | 3486.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.2 | 1.8 |
| 10°-20° | 197.0 | 5.7 |
| 20°-30° | 367.4 | 10.5 |
| 30°-40° | 615.1 | 17.6 |
| 40°-50° | 957.1 | 27.5 |
| 50°-60° | 993.8 | 28.5 |
| 60°-70° | 210.8 | 6.0 |
| 70°-80° | 69.4 | 2.0 |
| 80°-90° | 13.2 | 0.4 |
| 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° | 3486.0 | 100.0 |
| 0°-180° | 3486.0 | 100.0 |

Coefficient of Utilization

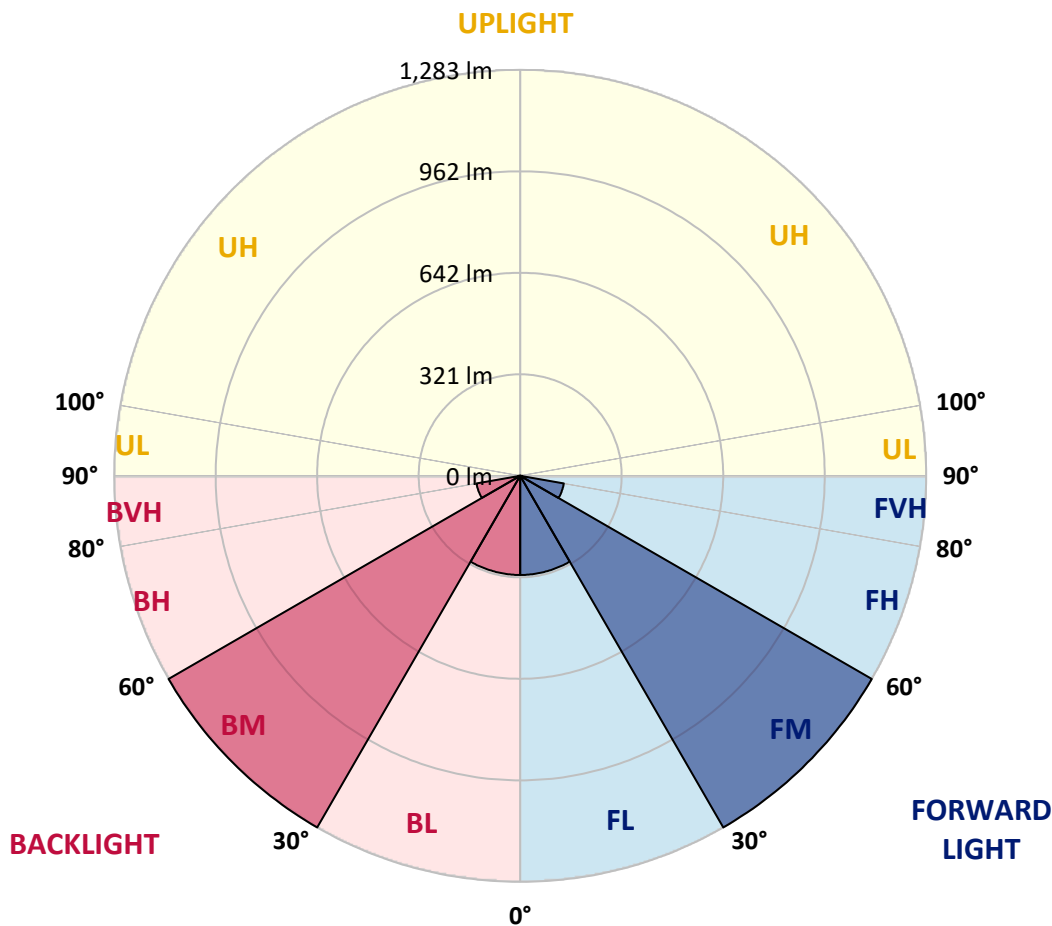


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 313.3 | 9.0 | | | |
| FM (30°-60°) | 1283.0 | 36.8 | | | |
| FH (60°-80°) | 140.1 | 4.0 | | | G0/660 |
| FVH (80°-90°) | 6.6 | 0.2 | | | G0/10 |
| BL (0°-30°) | 313.3 | 9.0 | B1/500 | | |
| BM (30°-60°) | 1283.0 | 36.8 | B2/2500 | | |
| BH (60°-80°) | 140.1 | 4.0 | B1/500 | | G0/660 |
| BVH (80°-90°) | 6.6 | 0.2 | | | 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° | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 |
| 2.5° | 644.1 | 641.1 | 636.1 | 639.9 | 642.8 | 636.5 | 639.0 | 640.3 | 639.4 | 636.1 | 637.3 |
| 5° | 653.3 | 651.7 | 647.4 | 650.4 | 646.6 | 646.6 | 644.1 | 640.7 | 645.8 | 644.9 | 647.0 |
| 7.5° | 653.3 | 651.2 | 659.7 | 654.2 | 655.9 | 655.9 | 651.7 | 648.3 | 650.8 | 647.0 | 644.9 |
| 10° | 666.4 | 669.3 | 665.6 | 666.8 | 666.0 | 668.9 | 662.6 | 660.5 | 658.4 | 657.1 | 654.6 |
| 12.5° | 682.0 | 679.9 | 681.1 | 680.3 | 683.2 | 675.7 | 671.9 | 667.2 | 671.0 | 665.6 | 669.3 |
| 15° | 694.6 | 693.4 | 694.6 | 698.0 | 695.0 | 694.6 | 687.9 | 683.2 | 677.4 | 678.6 | 672.7 |
| 17.5° | 711.9 | 710.6 | 711.1 | 714.0 | 713.6 | 711.5 | 706.4 | 697.6 | 695.5 | 692.1 | 688.3 |
| 20° | 737.6 | 735.5 | 734.6 | 735.9 | 738.0 | 739.7 | 729.6 | 726.2 | 719.1 | 713.6 | 707.3 |
| 22.5° | 759.5 | 758.7 | 762.0 | 756.5 | 761.2 | 766.2 | 756.5 | 754.9 | 737.2 | 734.2 | 727.5 |
| 25° | 789.8 | 788.6 | 786.5 | 794.5 | 799.9 | 799.5 | 790.2 | 781.0 | 767.5 | 764.1 | 764.1 |
| 27.5° | 821.8 | 814.7 | 825.6 | 827.7 | 837.4 | 840.4 | 832.4 | 818.9 | 806.3 | 799.1 | 800.8 |
| 30° | 861.9 | 855.1 | 857.6 | 872.8 | 885.4 | 896.4 | 876.2 | 856.4 | 838.7 | 826.0 | 823.9 |
| 32.5° | 901.9 | 895.1 | 902.7 | 917.5 | 942.7 | 959.2 | 939.4 | 904.8 | 884.2 | 865.6 | 869.4 |
| 35° | 934.3 | 939.4 | 951.6 | 973.9 | 1000.0 | 1026.6 | 995.0 | 968.4 | 938.9 | 918.3 | 921.2 |
| 37.5° | 986.5 | 1002.1 | 1011.8 | 1037.5 | 1074.6 | 1102.0 | 1069.1 | 1034.6 | 1003.0 | 976.0 | 966.7 |
| 40° | 1054.8 | 1065.3 | 1076.3 | 1106.6 | 1150.4 | 1177.8 | 1146.6 | 1101.5 | 1070.4 | 1042.6 | 1041.3 |
| 42.5° | 1129.8 | 1139.9 | 1151.2 | 1188.3 | 1214.4 | 1235.1 | 1206.4 | 1182.4 | 1147.9 | 1126.0 | 1124.7 |
| 45° | 1217.0 | 1209.8 | 1222.4 | 1246.9 | 1268.8 | 1282.3 | 1263.7 | 1251.9 | 1227.1 | 1206.8 | 1204.7 |
| 47.5° | 1275.1 | 1268.8 | 1291.5 | 1313.4 | 1316.8 | 1302.0 | 1305.8 | 1316.8 | 1290.7 | 1257.4 | 1267.9 |
| 50° | 1308.8 | 1308.8 | 1324.0 | 1344.2 | 1337.9 | 1318.9 | 1348.8 | 1349.6 | 1323.5 | 1294.0 | 1294.0 |
| 52.5° | 1250.2 | 1263.3 | 1306.3 | 1372.4 | 1393.5 | 1398.9 | 1392.2 | 1363.5 | 1295.3 | 1235.1 | 1232.1 |
| 55° | 1089.3 | 1086.4 | 1144.5 | 1296.2 | 1418.7 | 1483.6 | 1397.7 | 1265.8 | 1127.2 | 1059.4 | 1052.7 |
| 57.5° | 708.5 | 711.9 | 798.7 | 953.3 | 1174.4 | 1295.3 | 1150.4 | 965.1 | 798.7 | 705.2 | 714.0 |
| 60° | 318.9 | 330.3 | 382.9 | 498.3 | 688.3 | 786.9 | 690.0 | 523.6 | 401.9 | 348.8 | 353.4 |
| 62.5° | 183.2 | 185.3 | 187.5 | 222.4 | 293.2 | 346.7 | 304.6 | 235.1 | 207.2 | 198.0 | 198.0 |
| 65° | 154.6 | 153.3 | 153.8 | 156.7 | 164.3 | 175.2 | 170.6 | 164.3 | 165.1 | 164.3 | 163.0 |
| 67.5° | 131.4 | 133.1 | 131.8 | 134.0 | 134.4 | 136.1 | 139.0 | 141.5 | 142.0 | 142.8 | 142.0 |
| 70° | 107.8 | 108.3 | 109.1 | 110.8 | 111.2 | 112.5 | 116.7 | 118.8 | 120.1 | 120.1 | 121.7 |
| 72.5° | 82.6 | 82.1 | 83.0 | 84.7 | 86.8 | 87.2 | 91.0 | 93.9 | 95.6 | 93.5 | 93.9 |
| 75° | 54.3 | 54.8 | 56.0 | 57.3 | 60.2 | 63.2 | 64.4 | 67.4 | 67.8 | 68.7 | 66.6 |
| 77.5° | 32.4 | 33.3 | 34.5 | 37.1 | 39.6 | 42.1 | 45.1 | 47.2 | 48.0 | 47.2 | 44.7 |
| 80° | 21.1 | 21.1 | 22.7 | 24.9 | 27.8 | 29.9 | 31.6 | 33.3 | 34.5 | 33.3 | 32.4 |
| 82.5° | 13.1 | 13.1 | 15.2 | 17.7 | 19.8 | 21.1 | 23.6 | 25.7 | 27.0 | 26.1 | 24.9 |
| 85° | 6.7 | 7.2 | 8.8 | 11.0 | 12.6 | 13.5 | 13.1 | 11.8 | 10.5 | 10.1 | 9.3 |
| 87.5° | 2.1 | 2.1 | 2.5 | 2.5 | 2.1 | 2.1 | 2.5 | 2.1 | 2.5 | 2.5 | 2.5 |
| 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)