

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: P526098

Luminaire Tested: **GALN-SA1A-735-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-735-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3777 lumens
Efficiency: N/A
Efficacy: 114.5 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

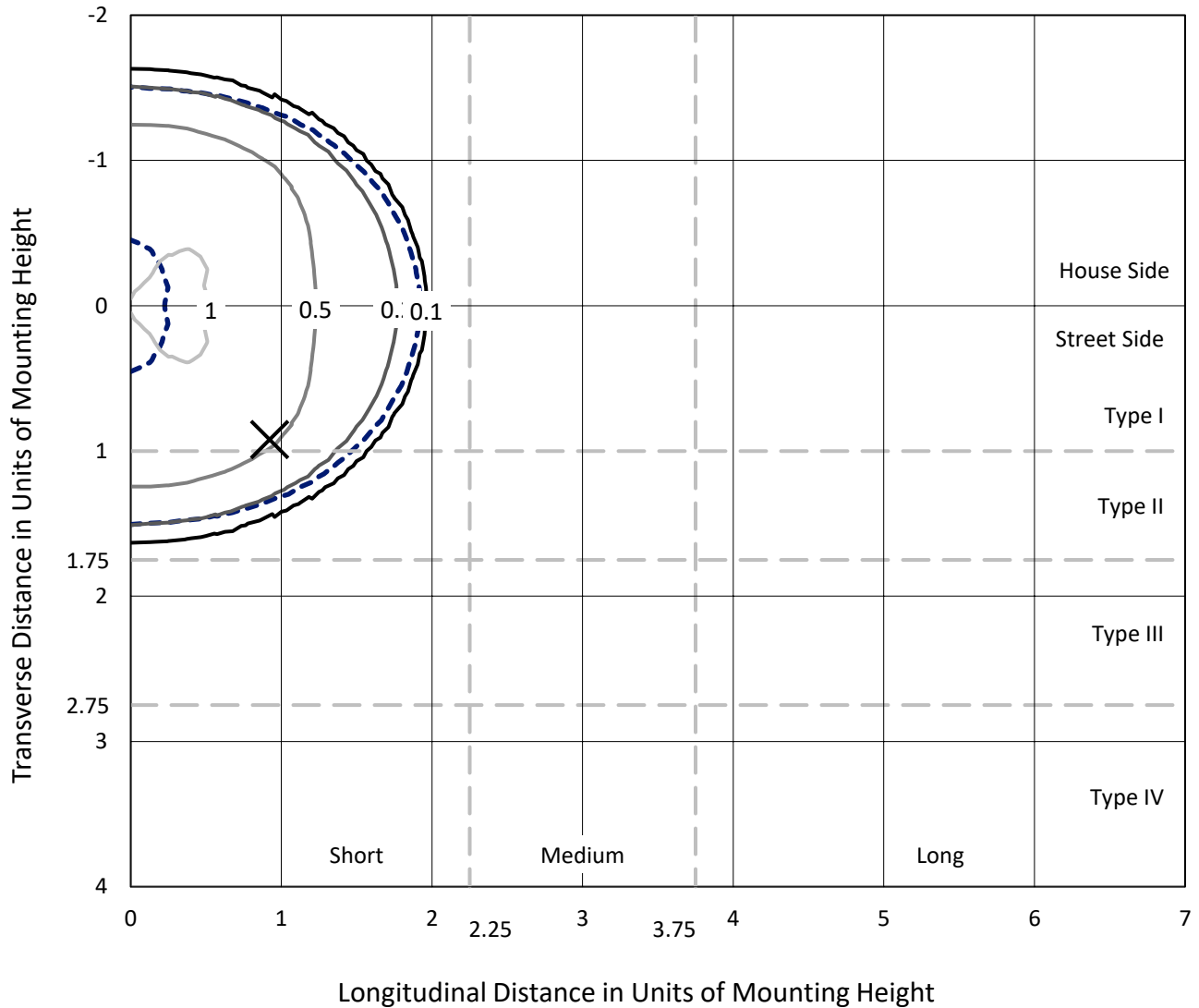
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

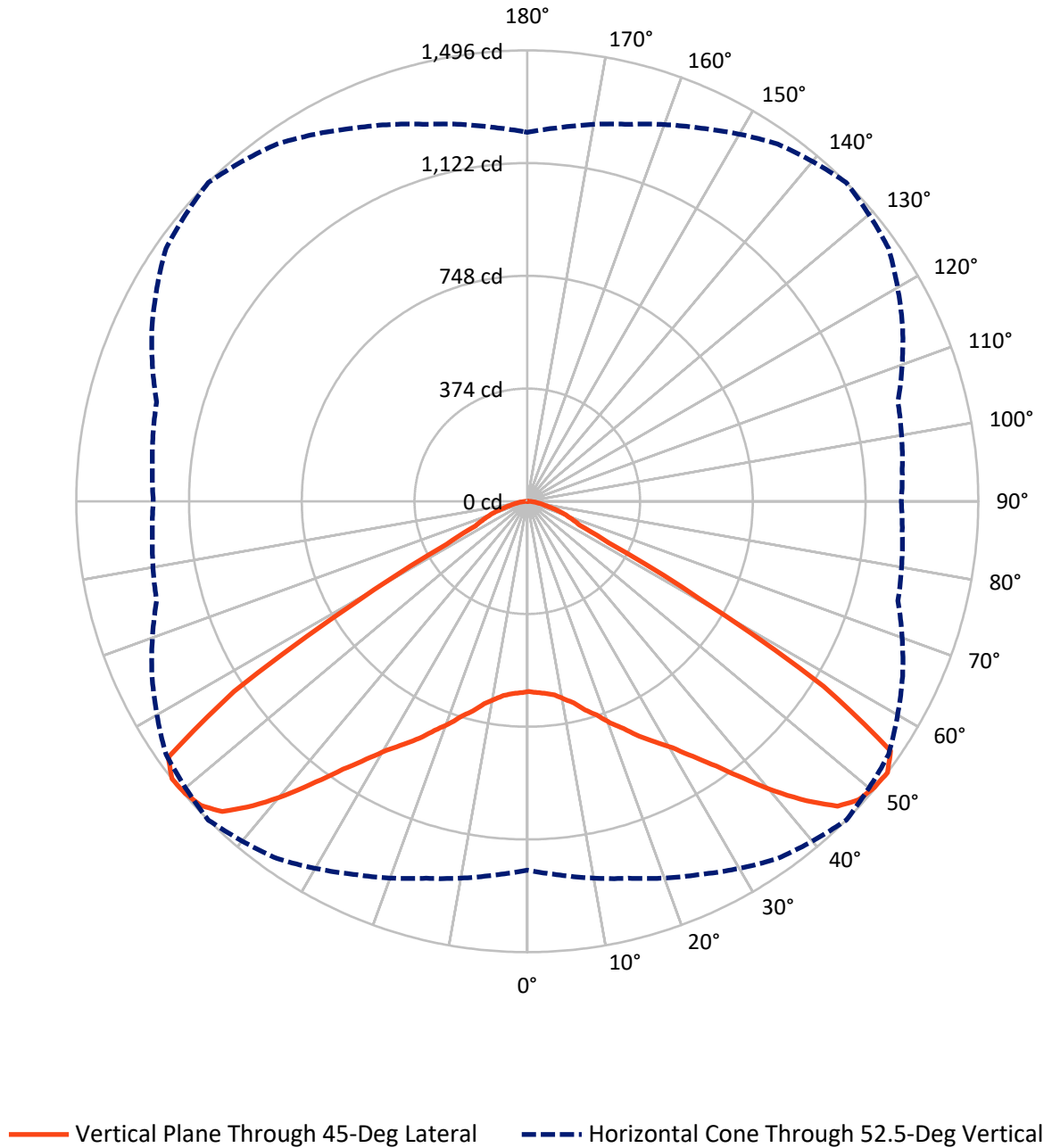
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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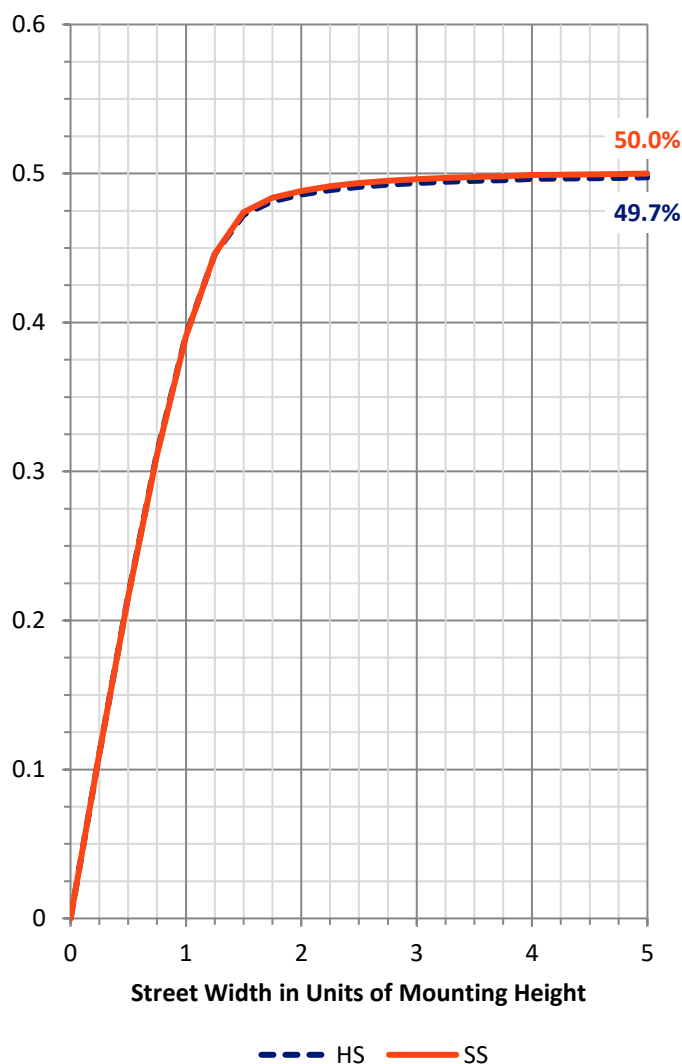
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1888.5 | 0.0 | 1888.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1888.5 | 0.0 | 1888.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3777.0 | 0.0 | 3777.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.0 | 1.6 |
| 10°-20° | 203.8 | 5.4 |
| 20°-30° | 388.1 | 10.3 |
| 30°-40° | 666.3 | 17.6 |
| 40°-50° | 1024.2 | 27.1 |
| 50°-60° | 1040.0 | 27.5 |
| 60°-70° | 289.8 | 7.7 |
| 70°-80° | 85.5 | 2.3 |
| 80°-90° | 17.2 | 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° | 3777.0 | 100.0 |
| 0°-180° | 3777.0 | 100.0 |

Coefficient of Utilization



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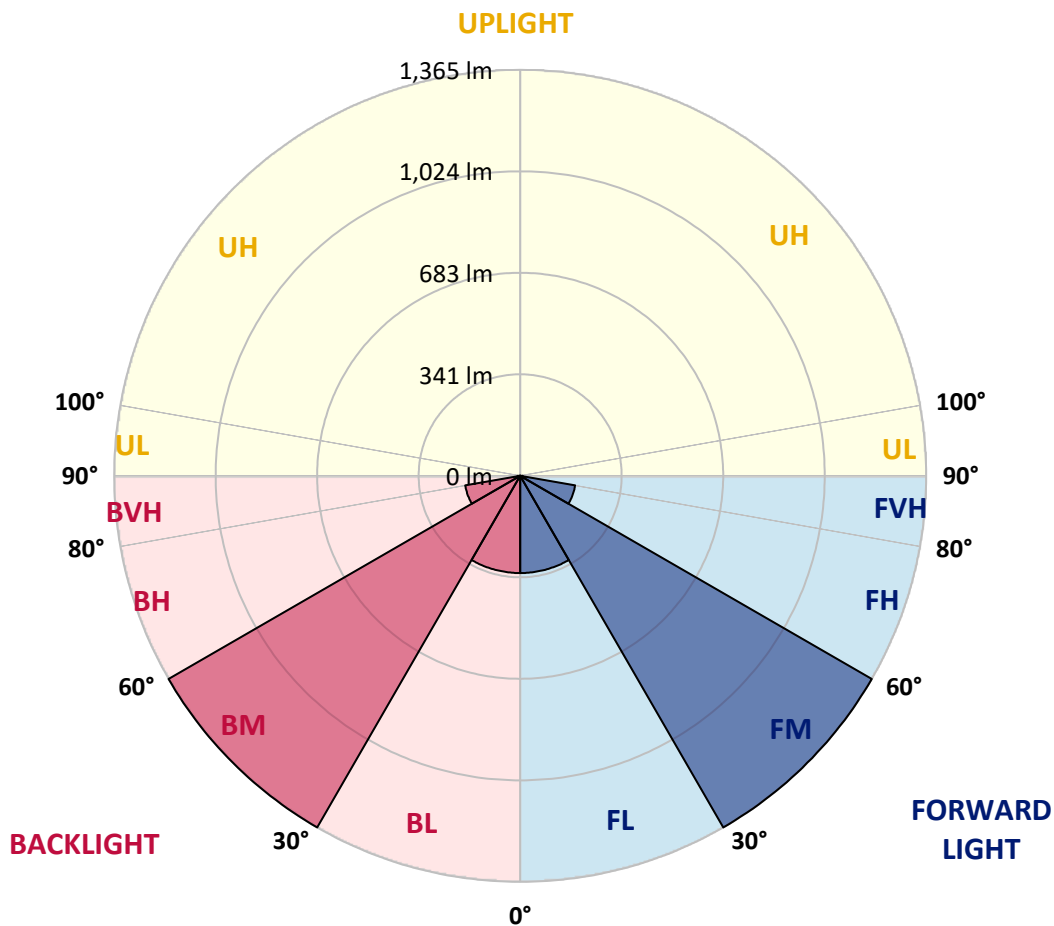
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 327.0 | 8.7 | | | |
| FM (30°-60°) | 1365.3 | 36.1 | | | |
| FH (60°-80°) | 187.7 | 5.0 | | | G0/660 |
| FVH (80°-90°) | 8.6 | 0.2 | | | G0/10 |
| BL (0°-30°) | 327.0 | 8.7 | B1/500 | | |
| BM (30°-60°) | 1365.3 | 36.1 | B2/2500 | | |
| BH (60°-80°) | 187.7 | 5.0 | B1/500 | | G0/660 |
| BVH (80°-90°) | 8.6 | 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° | 631.4 | 631.4 | 631.4 | 631.4 | 631.4 | 631.4 | 631.4 | 631.4 | 631.4 | 631.4 | 631.4 |
| 2.5° | 632.8 | 626.2 | 628.6 | 630.0 | 636.1 | 635.6 | 634.2 | 636.1 | 637.9 | 638.4 | 637.5 |
| 5° | 632.3 | 627.6 | 629.5 | 630.9 | 637.0 | 640.3 | 639.3 | 647.3 | 652.9 | 651.5 | 658.6 |
| 7.5° | 628.6 | 631.4 | 629.0 | 636.1 | 641.2 | 649.2 | 657.6 | 665.1 | 672.2 | 680.1 | 681.5 |
| 10° | 637.0 | 637.0 | 641.2 | 646.8 | 660.4 | 666.5 | 678.7 | 689.5 | 703.1 | 712.5 | 708.7 |
| 12.5° | 645.9 | 647.3 | 647.3 | 661.8 | 673.1 | 686.7 | 697.9 | 712.5 | 731.7 | 742.9 | 748.6 |
| 15° | 654.8 | 655.7 | 660.4 | 680.1 | 697.0 | 718.6 | 728.9 | 742.0 | 752.8 | 773.9 | 774.3 |
| 17.5° | 662.8 | 667.9 | 682.0 | 704.0 | 725.1 | 745.7 | 762.2 | 775.7 | 785.1 | 793.6 | 791.7 |
| 20° | 692.8 | 696.5 | 711.1 | 733.1 | 764.5 | 784.6 | 790.3 | 792.6 | 798.7 | 815.6 | 810.4 |
| 22.5° | 721.8 | 723.2 | 736.8 | 770.6 | 792.6 | 819.3 | 825.4 | 824.0 | 826.4 | 830.6 | 838.1 |
| 25° | 751.8 | 754.2 | 772.9 | 801.5 | 832.5 | 864.3 | 869.5 | 858.7 | 855.4 | 860.1 | 860.6 |
| 27.5° | 790.3 | 790.7 | 814.6 | 839.5 | 874.6 | 904.6 | 912.6 | 904.2 | 888.7 | 892.5 | 898.5 |
| 30° | 839.0 | 835.7 | 859.6 | 895.3 | 932.3 | 949.2 | 962.8 | 958.5 | 941.7 | 938.4 | 933.2 |
| 32.5° | 895.3 | 896.2 | 917.8 | 956.7 | 981.0 | 1009.2 | 1023.7 | 1016.7 | 1005.9 | 1000.3 | 1003.5 |
| 35° | 974.5 | 978.7 | 993.2 | 1025.6 | 1064.9 | 1079.0 | 1102.0 | 1087.0 | 1058.9 | 1065.9 | 1072.0 |
| 37.5° | 1039.6 | 1051.8 | 1079.0 | 1117.4 | 1140.9 | 1166.7 | 1175.1 | 1154.9 | 1134.3 | 1125.9 | 1146.0 |
| 40° | 1139.5 | 1135.7 | 1165.7 | 1204.2 | 1238.8 | 1264.6 | 1253.8 | 1233.7 | 1182.6 | 1183.1 | 1188.7 |
| 42.5° | 1225.3 | 1227.1 | 1250.1 | 1296.0 | 1343.4 | 1359.3 | 1325.1 | 1275.9 | 1219.2 | 1213.1 | 1225.3 |
| 45° | 1297.4 | 1304.9 | 1318.1 | 1379.5 | 1425.9 | 1443.2 | 1379.9 | 1321.8 | 1245.9 | 1220.6 | 1240.7 |
| 47.5° | 1323.2 | 1335.4 | 1364.0 | 1420.2 | 1466.2 | 1480.2 | 1429.6 | 1346.2 | 1270.7 | 1229.5 | 1240.3 |
| 50° | 1327.0 | 1322.7 | 1369.6 | 1421.2 | 1461.5 | 1492.0 | 1447.4 | 1364.0 | 1264.6 | 1243.1 | 1239.8 |
| 52.5° | 1224.3 | 1244.9 | 1295.1 | 1365.9 | 1447.4 | 1496.2 | 1463.4 | 1373.8 | 1273.1 | 1248.7 | 1240.7 |
| 55° | 990.9 | 966.5 | 1057.9 | 1177.0 | 1327.0 | 1462.4 | 1457.7 | 1379.0 | 1278.2 | 1258.1 | 1247.3 |
| 57.5° | 553.1 | 560.1 | 611.7 | 741.1 | 934.6 | 1159.6 | 1296.0 | 1324.6 | 1275.9 | 1264.2 | 1269.8 |
| 60° | 255.9 | 258.3 | 280.3 | 340.8 | 460.8 | 657.6 | 837.1 | 1019.5 | 1103.4 | 1120.3 | 1120.3 |
| 62.5° | 190.8 | 189.8 | 195.5 | 206.2 | 231.6 | 302.3 | 403.6 | 548.4 | 663.7 | 744.3 | 765.4 |
| 65° | 172.5 | 172.0 | 174.8 | 178.6 | 180.5 | 190.3 | 212.8 | 257.3 | 294.8 | 316.4 | 312.6 |
| 67.5° | 150.9 | 150.5 | 151.4 | 153.7 | 157.0 | 162.2 | 167.8 | 177.2 | 190.3 | 189.4 | 187.0 |
| 70° | 121.9 | 121.9 | 123.3 | 125.2 | 128.9 | 135.0 | 141.6 | 148.1 | 159.4 | 161.7 | 161.2 |
| 72.5° | 90.0 | 88.6 | 91.4 | 95.2 | 98.9 | 106.4 | 113.4 | 119.5 | 127.5 | 129.8 | 128.9 |
| 75° | 57.2 | 58.1 | 60.0 | 64.2 | 70.8 | 75.9 | 83.4 | 88.6 | 93.7 | 95.6 | 96.1 |
| 77.5° | 31.9 | 32.8 | 36.1 | 41.2 | 47.8 | 53.4 | 60.0 | 64.2 | 67.5 | 68.0 | 68.4 |
| 80° | 19.2 | 19.7 | 23.0 | 27.7 | 33.3 | 39.4 | 44.5 | 48.7 | 51.6 | 50.2 | 49.7 |
| 82.5° | 11.7 | 12.2 | 15.0 | 19.2 | 23.9 | 28.6 | 34.2 | 38.0 | 40.8 | 38.9 | 37.0 |
| 85° | 6.1 | 6.6 | 8.9 | 11.7 | 15.5 | 17.8 | 17.8 | 15.9 | 15.5 | 14.5 | 14.1 |
| 87.5° | 1.9 | 1.9 | 2.3 | 2.8 | 2.3 | 2.8 | 3.3 | 3.7 | 3.7 | 4.2 | 3.7 |
| 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)