

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: P526903

Luminaire Tested: **GALN-SA1D-827-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-827-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3719 lumens
Efficiency: N/A
Efficacy: 57.2 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

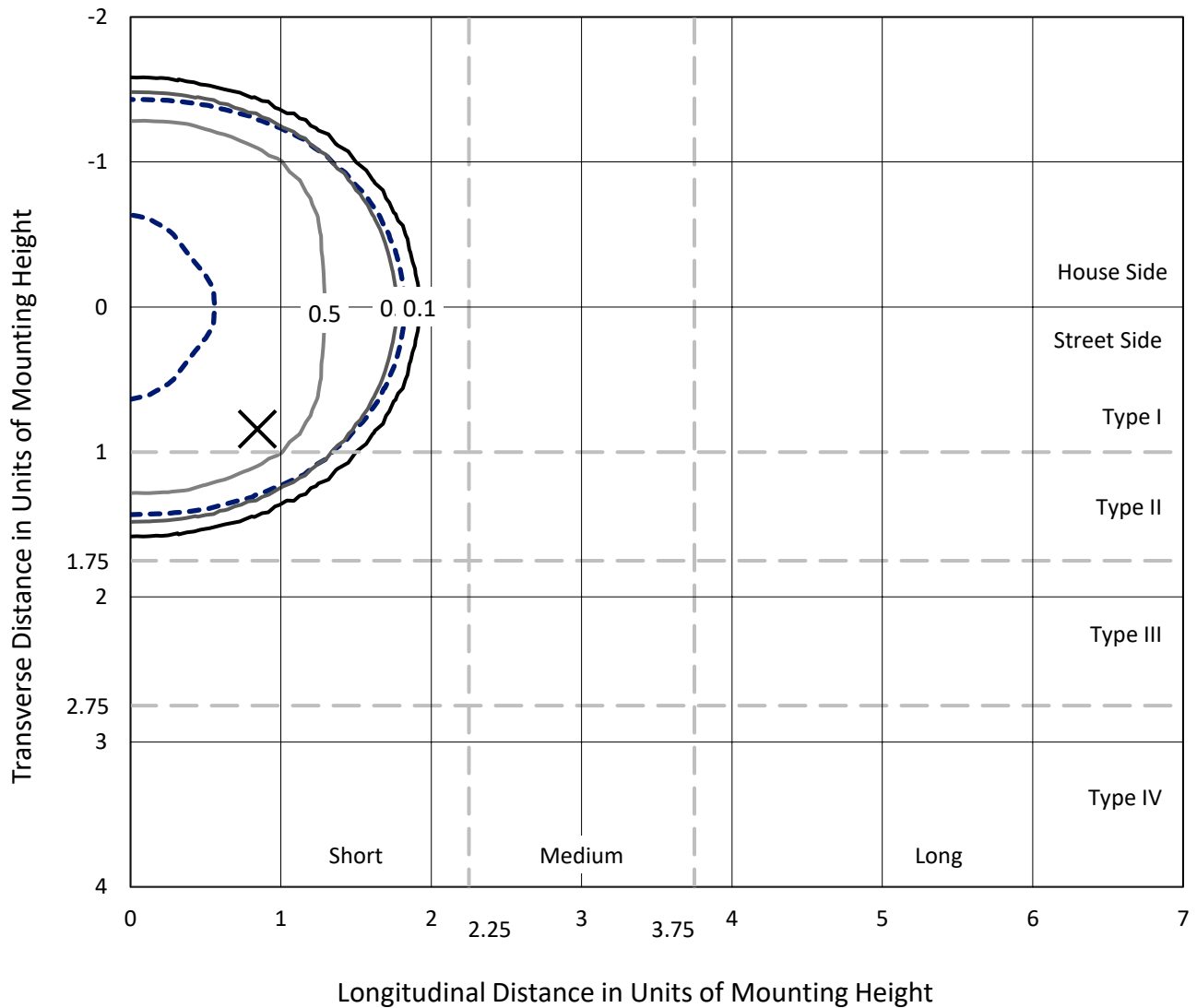
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

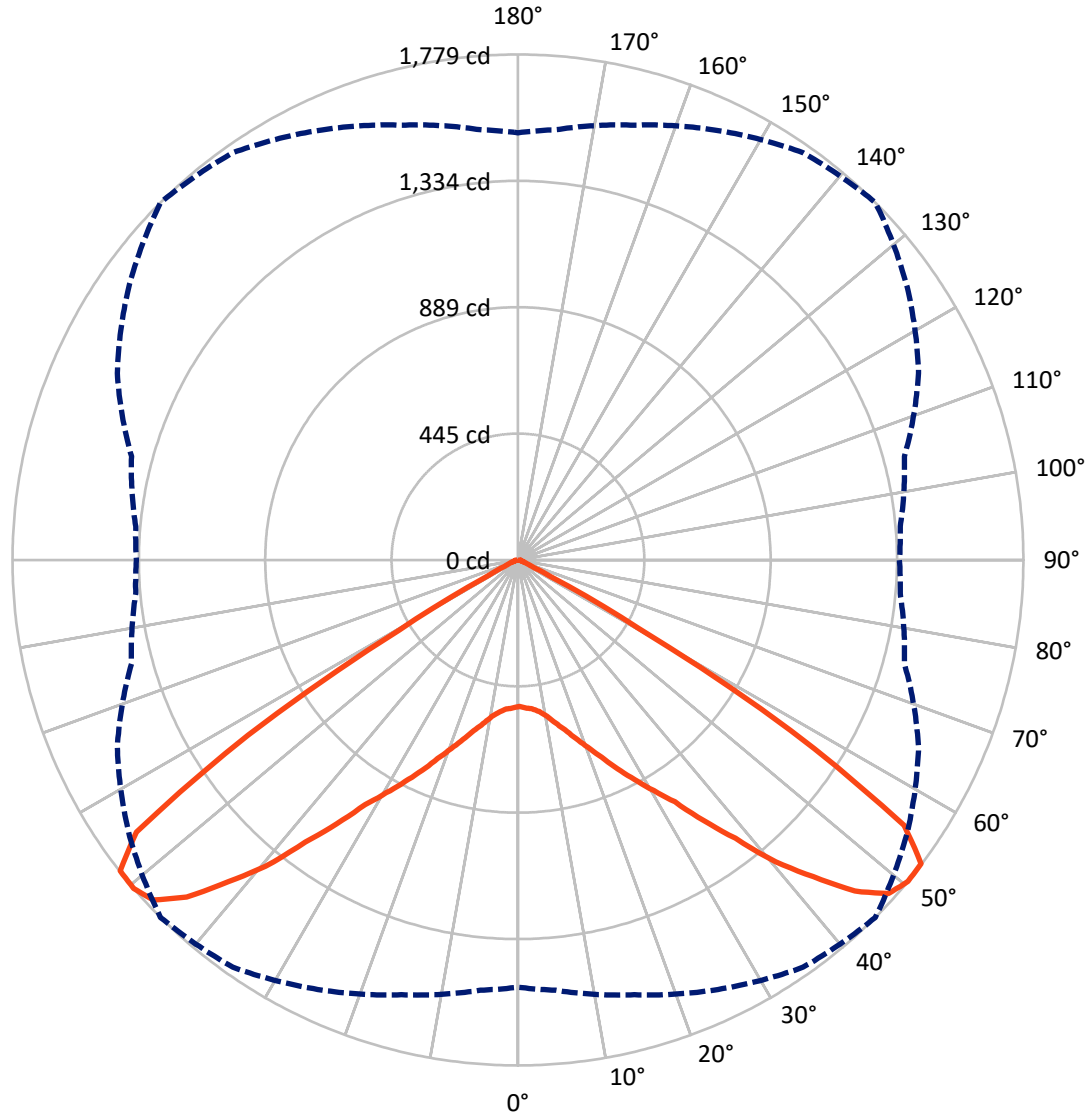
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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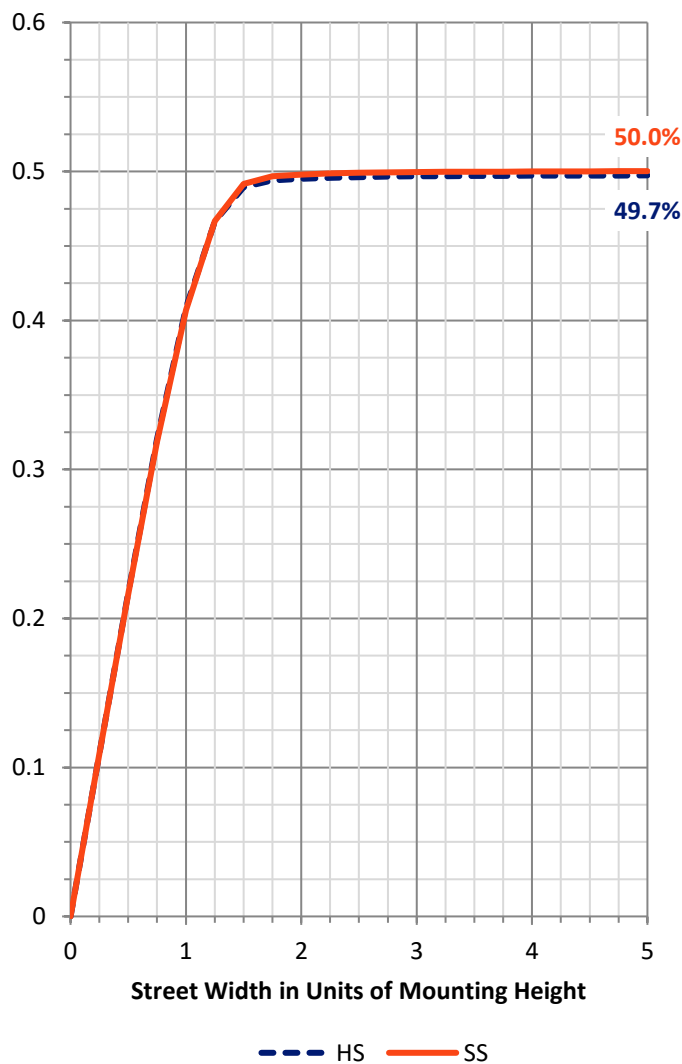
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1859.5 | 0.0 | 1859.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1859.5 | 0.0 | 1859.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3719.0 | 0.0 | 3719.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 51.3 | 1.4 |
| 10°-20° | 176.8 | 4.8 |
| 20°-30° | 361.1 | 9.7 |
| 30°-40° | 688.6 | 18.5 |
| 40°-50° | 1160.3 | 31.2 |
| 50°-60° | 1106.6 | 29.8 |
| 60°-70° | 154.5 | 4.2 |
| 70°-80° | 14.8 | 0.4 |
| 80°-90° | 5.1 | 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° | 3719.0 | 100.0 |
| 0°-180° | 3719.0 | 100.0 |

Coefficient of Utilization



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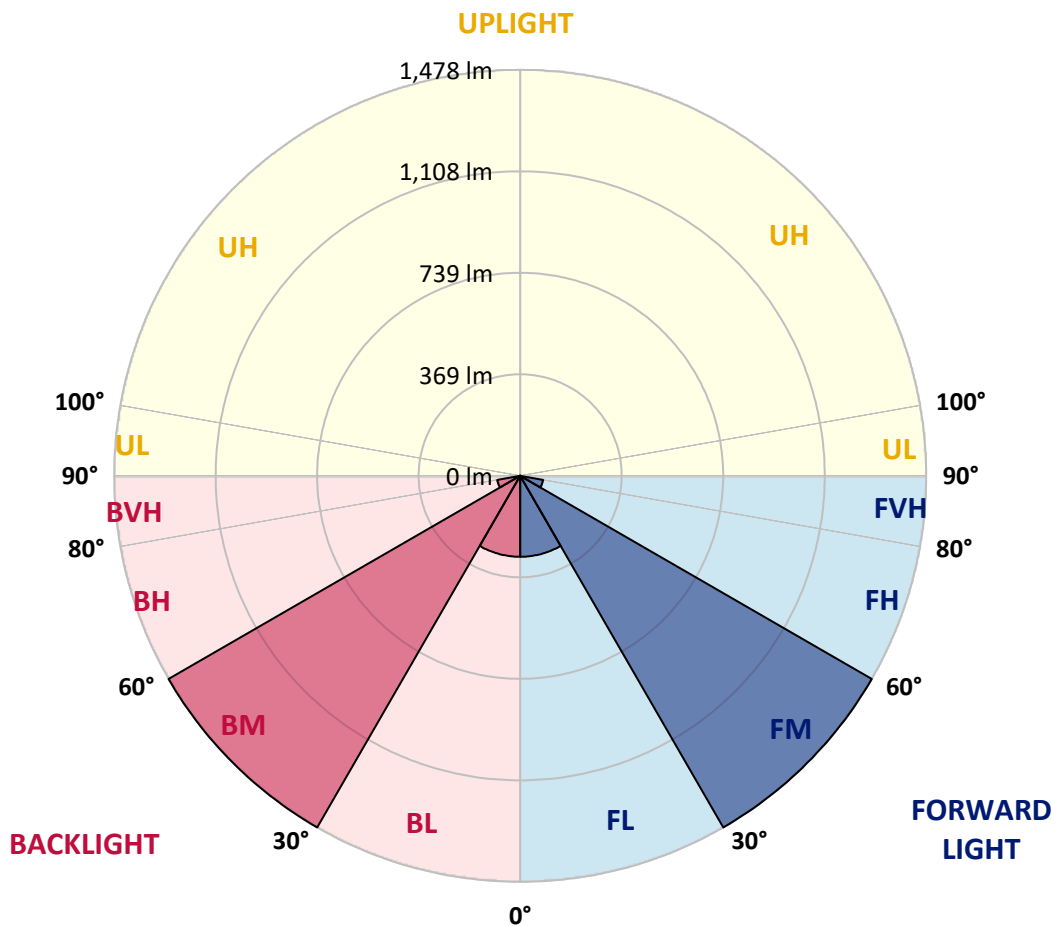
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 294.6 | 7.9 | | | |
| FM (30°-60°) | 1477.7 | 39.7 | | | |
| FH (60°-80°) | 84.6 | 2.3 | | | G0/660 |
| FVH (80°-90°) | 2.6 | 0.1 | | | G0/10 |
| BL (0°-30°) | 294.6 | 7.9 | B1/500 | | |
| BM (30°-60°) | 1477.7 | 39.7 | B2/2500 | | |
| BH (60°-80°) | 84.6 | 2.3 | B0/110 | | G0/660 |
| BVH (80°-90°) | 2.6 | 0.1 | | | 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° | 515.6 | 515.6 | 515.6 | 515.6 | 515.6 | 515.6 | 515.6 | 515.6 | 515.6 | 515.6 | 515.6 |
| 2.5° | 513.7 | 513.7 | 513.1 | 518.1 | 515.6 | 521.2 | 520.6 | 522.5 | 524.4 | 523.7 | 528.7 |
| 5° | 509.3 | 508.7 | 508.7 | 514.3 | 520.0 | 526.2 | 531.9 | 535.6 | 541.9 | 541.9 | 548.1 |
| 7.5° | 513.7 | 510.6 | 515.0 | 517.5 | 528.1 | 538.8 | 548.1 | 555.6 | 570.0 | 575.0 | 573.2 |
| 10° | 515.0 | 518.7 | 521.9 | 529.4 | 542.5 | 558.8 | 566.9 | 585.7 | 601.9 | 613.2 | 615.7 |
| 12.5° | 523.1 | 528.7 | 537.5 | 555.6 | 567.5 | 588.8 | 600.1 | 618.2 | 640.7 | 653.3 | 662.0 |
| 15° | 538.8 | 540.6 | 551.9 | 575.0 | 600.7 | 620.1 | 637.6 | 650.8 | 672.7 | 687.0 | 687.7 |
| 17.5° | 558.8 | 566.9 | 582.6 | 604.5 | 631.4 | 660.1 | 673.9 | 688.3 | 696.4 | 715.8 | 720.2 |
| 20° | 598.8 | 600.1 | 615.1 | 643.9 | 677.7 | 703.9 | 714.0 | 721.5 | 718.3 | 738.4 | 742.1 |
| 22.5° | 636.4 | 637.6 | 656.4 | 695.2 | 731.5 | 754.0 | 758.4 | 754.0 | 744.6 | 759.0 | 760.3 |
| 25° | 674.5 | 685.8 | 699.6 | 738.4 | 783.4 | 813.4 | 814.1 | 802.2 | 782.8 | 785.3 | 791.5 |
| 27.5° | 734.0 | 742.1 | 756.5 | 792.2 | 841.6 | 875.4 | 869.8 | 855.4 | 830.3 | 832.2 | 830.3 |
| 30° | 803.4 | 810.9 | 822.8 | 868.5 | 904.8 | 941.7 | 949.9 | 936.1 | 898.5 | 890.4 | 899.8 |
| 32.5° | 887.3 | 897.9 | 919.8 | 961.7 | 992.4 | 1014.9 | 1020.6 | 1015.6 | 980.5 | 977.4 | 983.6 |
| 35° | 989.3 | 1003.7 | 1023.7 | 1060.6 | 1085.6 | 1126.3 | 1126.3 | 1109.4 | 1077.5 | 1081.3 | 1080.6 |
| 37.5° | 1096.9 | 1118.2 | 1149.5 | 1187.0 | 1220.8 | 1242.7 | 1235.8 | 1221.4 | 1189.5 | 1181.4 | 1189.5 |
| 40° | 1232.1 | 1242.7 | 1282.1 | 1330.9 | 1372.2 | 1397.2 | 1367.8 | 1336.6 | 1260.2 | 1272.1 | 1294.0 |
| 42.5° | 1355.3 | 1372.2 | 1402.3 | 1456.1 | 1503.0 | 1523.6 | 1488.6 | 1426.7 | 1334.7 | 1325.3 | 1341.6 |
| 45° | 1460.4 | 1478.6 | 1518.0 | 1595.0 | 1644.4 | 1662.6 | 1585.0 | 1484.8 | 1379.7 | 1355.9 | 1362.8 |
| 47.5° | 1530.5 | 1539.9 | 1595.0 | 1668.2 | 1713.2 | 1754.5 | 1643.2 | 1524.9 | 1401.0 | 1355.9 | 1353.4 |
| 50° | 1503.6 | 1519.9 | 1584.3 | 1667.6 | 1749.5 | 1778.9 | 1672.6 | 1555.6 | 1407.9 | 1350.3 | 1342.8 |
| 52.5° | 1335.3 | 1363.5 | 1435.4 | 1547.4 | 1671.3 | 1776.4 | 1713.2 | 1545.5 | 1405.4 | 1355.9 | 1367.2 |
| 55° | 929.2 | 929.8 | 1017.4 | 1182.6 | 1401.6 | 1649.4 | 1653.8 | 1556.8 | 1421.7 | 1391.0 | 1391.6 |
| 57.5° | 373.6 | 392.3 | 459.3 | 625.1 | 827.2 | 1132.6 | 1346.6 | 1444.2 | 1423.5 | 1416.0 | 1435.4 |
| 60° | 94.5 | 95.1 | 115.8 | 176.5 | 291.0 | 485.6 | 705.2 | 954.2 | 1098.8 | 1148.2 | 1155.1 |
| 62.5° | 48.2 | 48.8 | 53.8 | 62.6 | 79.5 | 130.2 | 231.5 | 367.3 | 522.5 | 601.3 | 622.0 |
| 65° | 39.4 | 39.4 | 42.5 | 46.9 | 47.6 | 50.1 | 60.1 | 85.7 | 124.5 | 141.4 | 143.3 |
| 67.5° | 30.0 | 30.0 | 32.5 | 35.0 | 36.3 | 35.7 | 34.4 | 35.7 | 43.2 | 41.3 | 40.0 |
| 70° | 18.8 | 19.4 | 20.6 | 23.2 | 24.4 | 25.0 | 25.7 | 26.9 | 30.7 | 31.9 | 30.7 |
| 72.5° | 11.3 | 11.3 | 11.9 | 13.8 | 15.6 | 16.9 | 18.8 | 20.0 | 21.9 | 25.0 | 24.4 |
| 75° | 5.0 | 5.0 | 6.3 | 8.1 | 10.0 | 11.9 | 13.8 | 15.6 | 16.9 | 18.8 | 19.4 |
| 77.5° | 1.3 | 1.9 | 3.1 | 5.6 | 7.5 | 10.0 | 12.5 | 14.4 | 15.6 | 15.6 | 15.0 |
| 80° | 0.6 | 0.6 | 2.5 | 4.4 | 8.1 | 10.6 | 13.8 | 15.0 | 16.9 | 15.6 | 13.8 |
| 82.5° | 0.6 | 0.6 | 2.5 | 4.4 | 7.5 | 10.6 | 14.4 | 16.3 | 17.5 | 15.6 | 13.1 |
| 85° | 0.0 | 0.6 | 1.9 | 3.8 | 6.3 | 7.5 | 6.3 | 4.4 | 2.5 | 2.5 | 1.9 |
| 87.5° | 0.0 | 0.0 | 0.6 | 0.6 | 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)