

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: STREETWORKS

Report Number: P367260

Luminaire Tested: **PMM-SA2B-727-U-5NQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-5)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA2B-727-U-5NQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8524 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

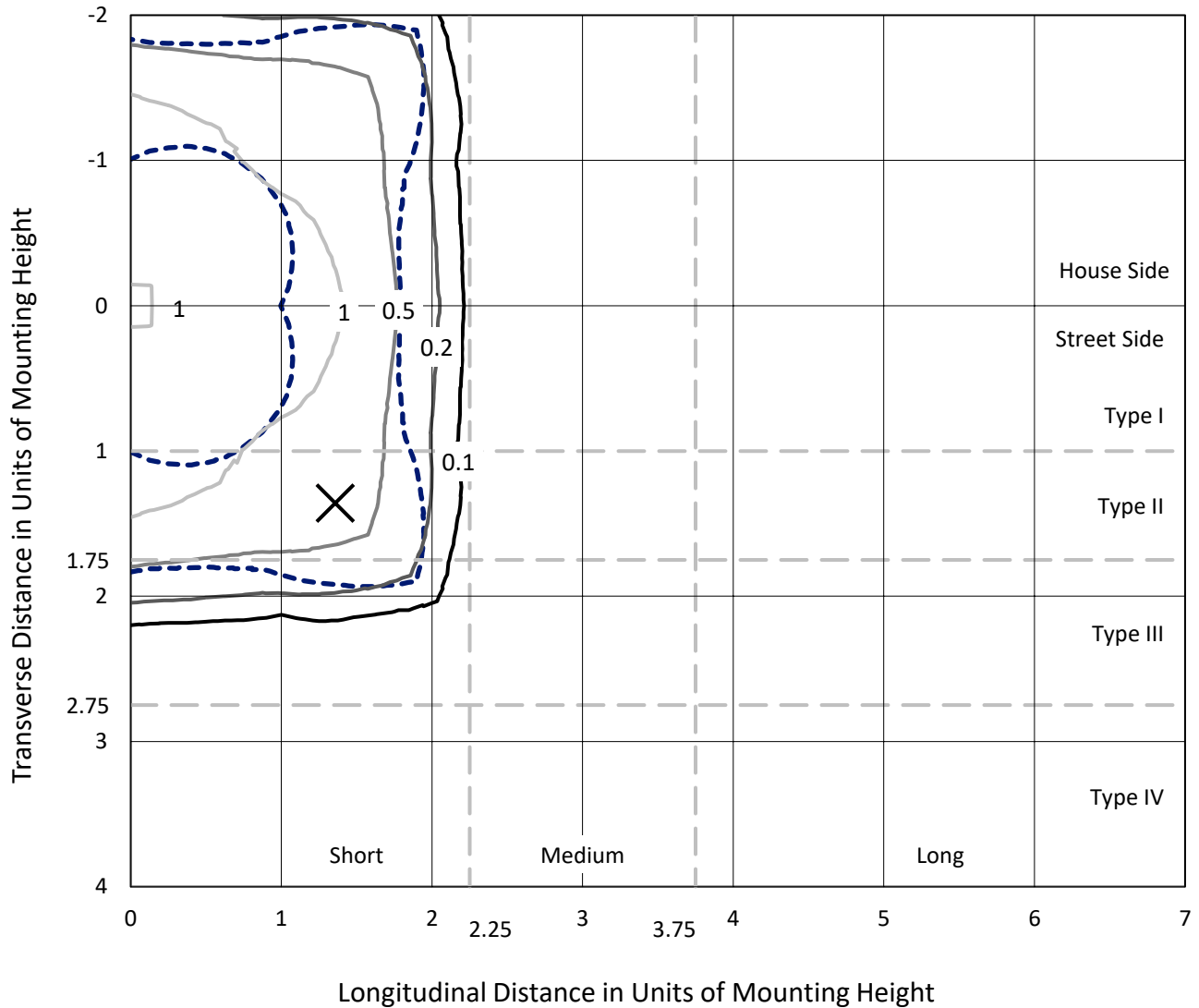
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

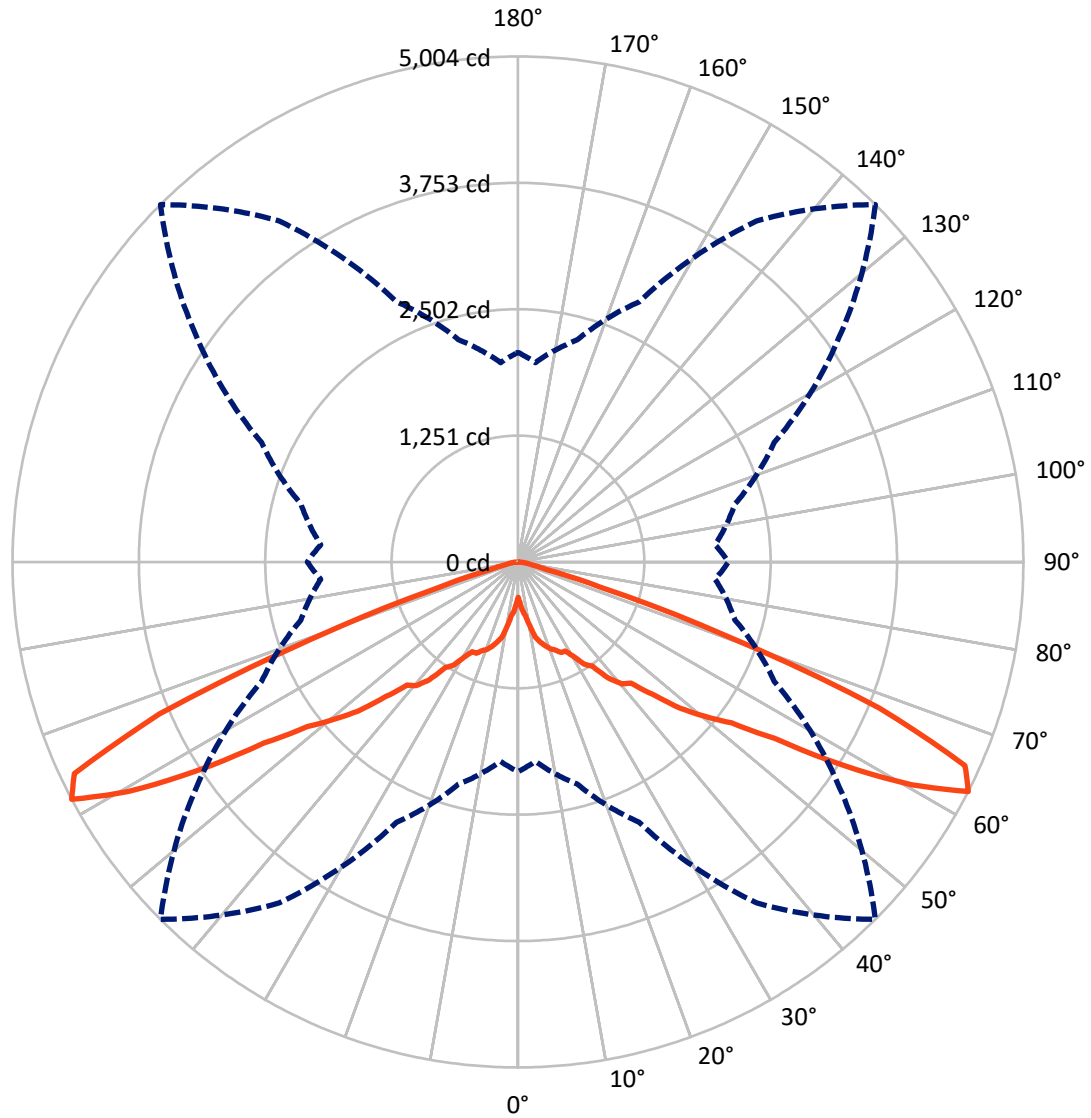
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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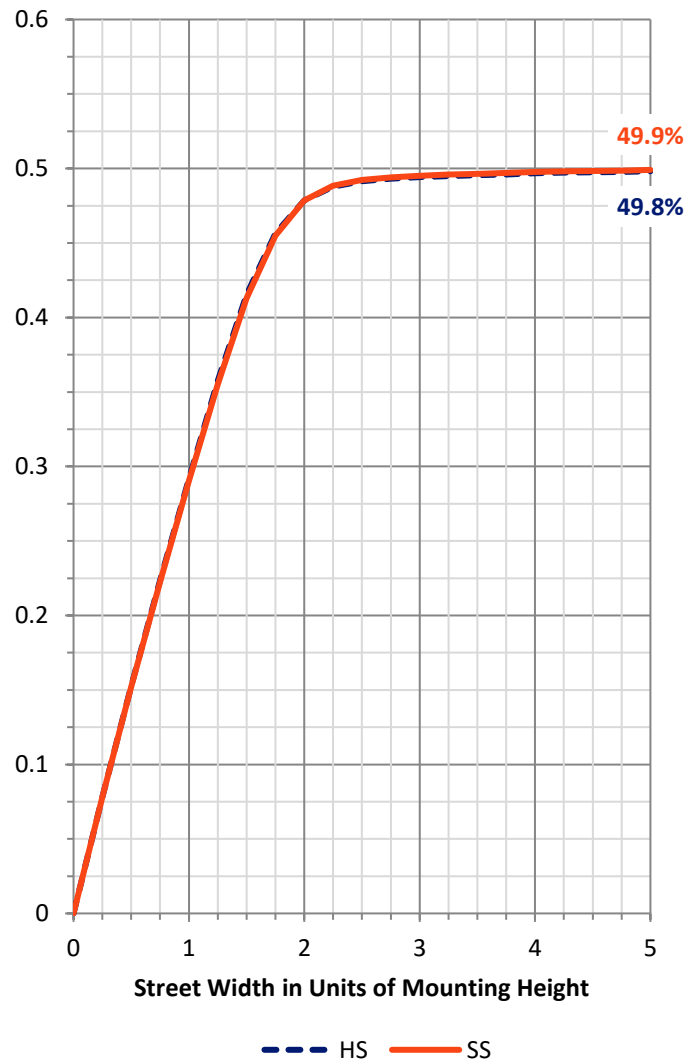
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4262.0 | 0.0 | 4262.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4262.0 | 0.0 | 4262.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8524.0 | 0.0 | 8524.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 52.5 | 0.6 |
| 10°-20° | 231.6 | 2.7 |
| 20°-30° | 485.4 | 5.7 |
| 30°-40° | 914.6 | 10.7 |
| 40°-50° | 1660.0 | 19.5 |
| 50°-60° | 2804.8 | 32.9 |
| 60°-70° | 2096.8 | 24.6 |
| 70°-80° | 234.6 | 2.8 |
| 80°-90° | 43.6 | 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° | 8524.0 | 100.0 |
| 0°-180° | 8524.0 | 100.0 |

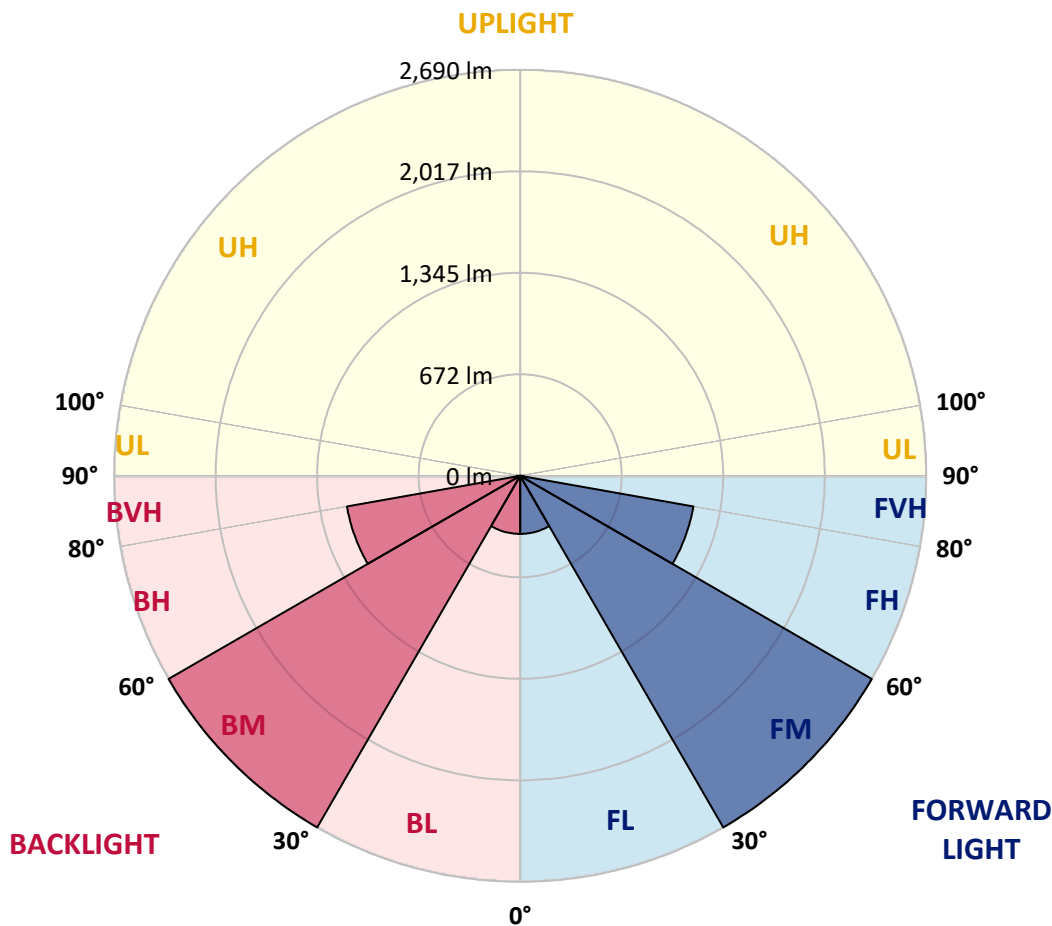


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 384.8 | 4.5 | | | |
| FM (30°-60°) | 2689.7 | 31.6 | | | |
| FH (60°-80°) | 1165.7 | 13.7 | | | G1/1800 |
| FVH (80°-90°) | 21.8 | 0.3 | | | G1/100 |
| BL (0°-30°) | 384.8 | 4.5 | B1/500 | | |
| BM (30°-60°) | 2689.7 | 31.6 | B3/5000 | | |
| BH (60°-80°) | 1165.7 | 13.7 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 21.8 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1
 Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 348.5 | 348.5 | 348.5 | 348.5 | 348.5 | 348.5 | 348.5 | 348.5 | 348.5 | 348.5 | 348.5 |
| 2.5° | 423.8 | 416.1 | 389.4 | 398.8 | 408.5 | 407.1 | 404.7 | 397.4 | 390.8 | 418.2 | 423.8 |
| 5° | 540.3 | 523.0 | 513.6 | 506.0 | 504.2 | 485.5 | 511.2 | 508.4 | 517.1 | 531.6 | 545.8 |
| 7.5° | 633.2 | 616.9 | 592.3 | 587.1 | 559.0 | 538.2 | 560.4 | 587.8 | 596.5 | 623.2 | 639.1 |
| 10° | 667.2 | 653.0 | 657.5 | 634.3 | 632.9 | 638.8 | 633.9 | 640.2 | 663.1 | 659.9 | 671.7 |
| 12.5° | 743.5 | 745.9 | 731.4 | 725.5 | 737.3 | 762.9 | 741.1 | 733.5 | 727.9 | 751.5 | 758.8 |
| 15° | 815.0 | 829.2 | 805.2 | 801.4 | 796.6 | 820.5 | 796.9 | 808.4 | 818.4 | 823.3 | 820.5 |
| 17.5° | 916.2 | 916.9 | 890.2 | 847.6 | 863.5 | 871.1 | 860.7 | 841.0 | 888.5 | 912.4 | 913.8 |
| 20° | 982.8 | 985.2 | 932.5 | 865.9 | 911.0 | 918.0 | 912.8 | 871.5 | 934.6 | 974.5 | 972.7 |
| 22.5° | 1054.6 | 1046.3 | 974.8 | 926.3 | 942.2 | 946.4 | 935.3 | 930.1 | 974.5 | 1047.0 | 1036.2 |
| 25° | 1102.8 | 1118.0 | 1047.0 | 1015.7 | 1002.2 | 992.5 | 1006.7 | 1009.5 | 1054.9 | 1120.8 | 1084.4 |
| 27.5° | 1217.9 | 1191.6 | 1080.2 | 1092.0 | 1063.3 | 997.7 | 1060.1 | 1094.5 | 1084.8 | 1197.1 | 1224.5 |
| 30° | 1320.2 | 1320.9 | 1164.9 | 1187.4 | 1134.0 | 1080.9 | 1148.6 | 1198.2 | 1186.0 | 1329.9 | 1303.9 |
| 32.5° | 1451.0 | 1455.8 | 1310.9 | 1250.5 | 1214.5 | 1204.4 | 1196.1 | 1250.9 | 1326.5 | 1443.0 | 1445.4 |
| 35° | 1592.1 | 1633.7 | 1436.7 | 1373.3 | 1311.9 | 1267.5 | 1315.4 | 1391.3 | 1440.6 | 1626.8 | 1593.8 |
| 37.5° | 1867.1 | 1797.1 | 1635.8 | 1516.5 | 1477.3 | 1459.6 | 1485.0 | 1529.0 | 1635.5 | 1796.0 | 1852.6 |
| 40° | 2029.8 | 2010.3 | 1790.8 | 1690.9 | 1539.7 | 1586.9 | 1573.0 | 1693.7 | 1781.8 | 2021.4 | 2026.6 |
| 42.5° | 2278.4 | 2180.6 | 1983.3 | 1856.4 | 1720.4 | 1638.6 | 1725.3 | 1887.2 | 1993.7 | 2196.2 | 2291.9 |
| 45° | 2475.0 | 2349.5 | 2197.3 | 2100.9 | 1929.2 | 1868.5 | 1899.7 | 2107.1 | 2240.6 | 2379.7 | 2505.6 |
| 47.5° | 2692.5 | 2556.5 | 2404.3 | 2233.0 | 2065.5 | 2164.3 | 2109.2 | 2291.6 | 2422.0 | 2621.4 | 2739.3 |
| 50° | 2965.7 | 2815.2 | 2620.3 | 2478.9 | 2367.9 | 2402.6 | 2393.9 | 2523.9 | 2684.8 | 2866.6 | 3000.4 |
| 52.5° | 3266.8 | 3096.5 | 2908.5 | 2777.1 | 2730.3 | 2644.3 | 2756.6 | 2810.0 | 2928.6 | 3095.1 | 3252.2 |
| 55° | 3477.3 | 3307.0 | 3193.2 | 3235.5 | 3223.1 | 3085.0 | 3183.5 | 3189.1 | 3131.9 | 3191.9 | 3350.0 |
| 57.5° | 3444.7 | 3282.0 | 3266.4 | 3426.3 | 3665.2 | 3798.7 | 3646.5 | 3319.1 | 3104.8 | 3076.7 | 3244.2 |
| 60° | 3011.9 | 2872.8 | 3015.7 | 3376.3 | 4072.4 | 4478.8 | 3892.7 | 3221.0 | 2868.0 | 2722.0 | 2883.6 |
| 62.5° | 2075.5 | 1981.6 | 2277.7 | 2841.6 | 4121.2 | 5003.5 | 3883.7 | 2798.9 | 2224.3 | 1959.4 | 2084.9 |
| 65° | 983.8 | 949.9 | 1199.9 | 1801.6 | 3432.9 | 4863.4 | 3393.0 | 1893.8 | 1280.3 | 1022.7 | 1051.1 |
| 67.5° | 370.0 | 353.0 | 440.4 | 795.9 | 2162.2 | 3857.3 | 2280.8 | 934.3 | 495.2 | 384.9 | 398.1 |
| 70° | 210.2 | 198.0 | 209.5 | 290.3 | 870.4 | 2184.8 | 983.8 | 320.4 | 210.5 | 191.8 | 204.3 |
| 72.5° | 165.4 | 156.1 | 157.8 | 175.5 | 300.3 | 857.6 | 318.4 | 182.8 | 152.9 | 145.3 | 156.4 |
| 75° | 136.6 | 128.3 | 128.0 | 137.7 | 175.1 | 278.5 | 180.0 | 139.8 | 123.8 | 118.3 | 127.3 |
| 77.5° | 108.5 | 103.7 | 105.1 | 112.7 | 125.5 | 155.7 | 130.4 | 113.1 | 101.6 | 95.0 | 101.3 |
| 80° | 79.4 | 78.7 | 84.3 | 91.2 | 93.6 | 104.7 | 97.8 | 91.2 | 81.1 | 71.8 | 74.2 |
| 82.5° | 52.0 | 52.4 | 62.8 | 68.3 | 67.3 | 66.9 | 70.1 | 69.7 | 60.7 | 47.5 | 47.5 |
| 85° | 29.8 | 30.5 | 38.5 | 43.0 | 42.3 | 33.6 | 44.4 | 44.7 | 38.8 | 28.8 | 27.7 |
| 87.5° | 9.7 | 12.1 | 16.6 | 17.7 | 17.0 | 9.4 | 17.0 | 18.7 | 17.0 | 12.1 | 10.8 |
| 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)