

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P629007

Luminaire Tested: GWS-SA1A-827-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-827-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 2700K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2128.8 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

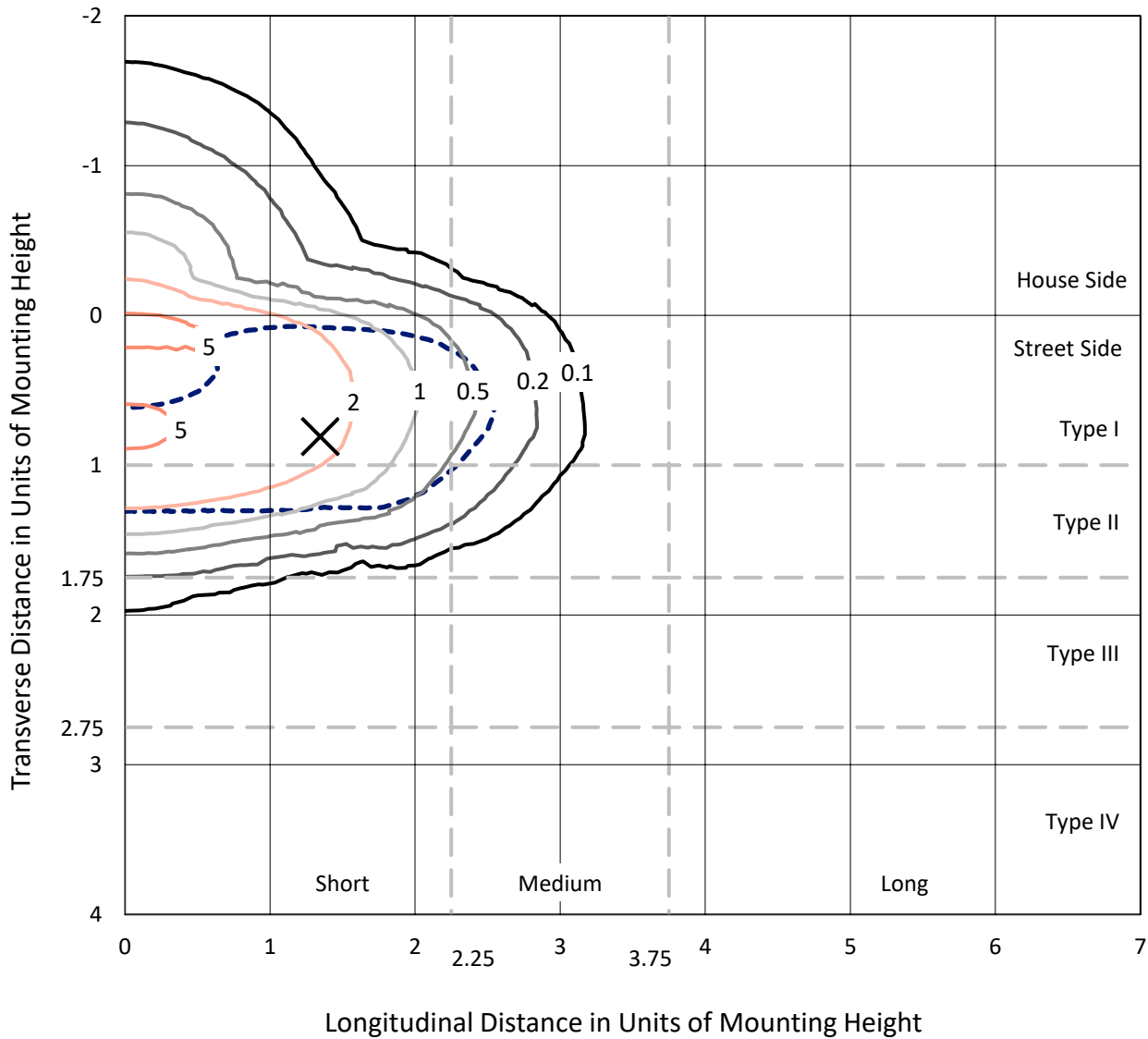
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

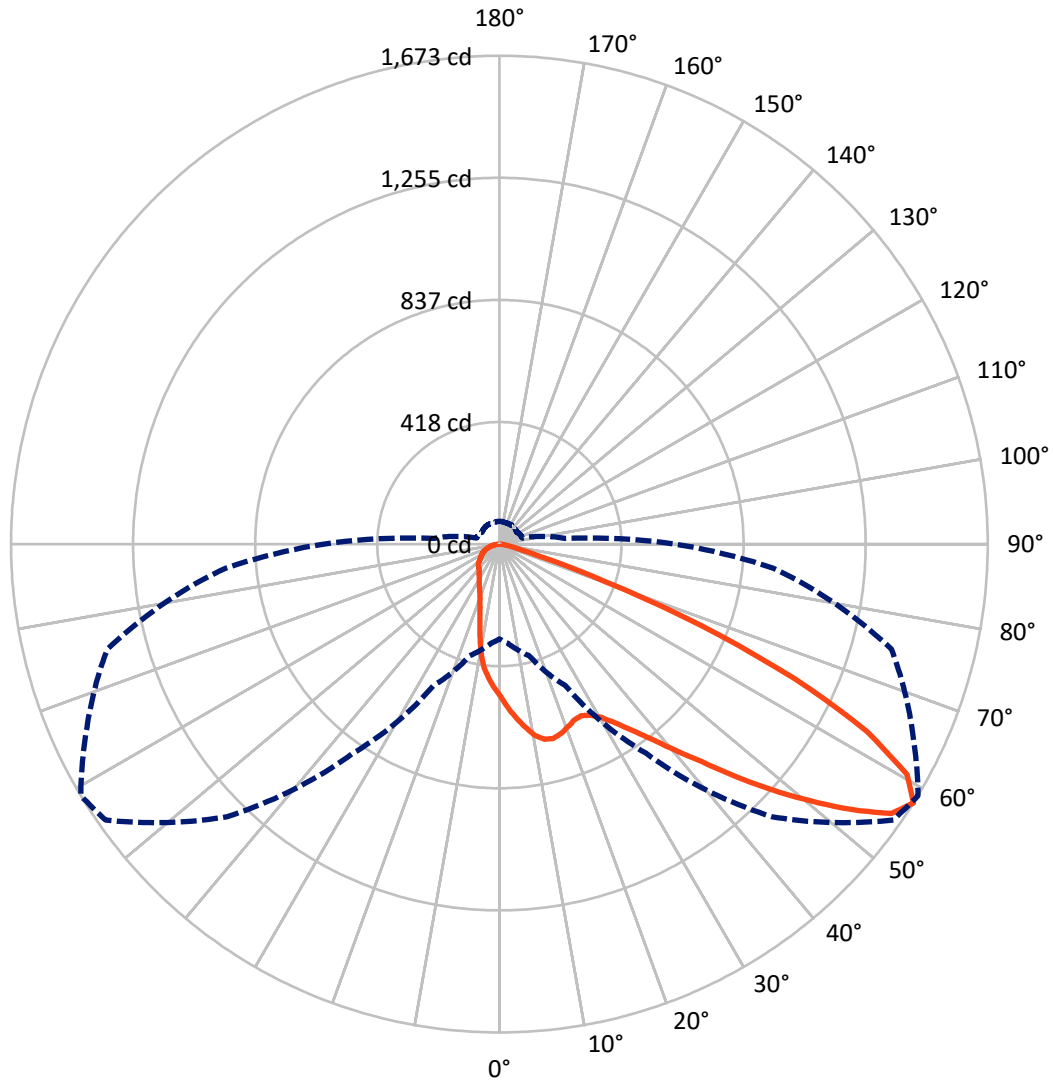
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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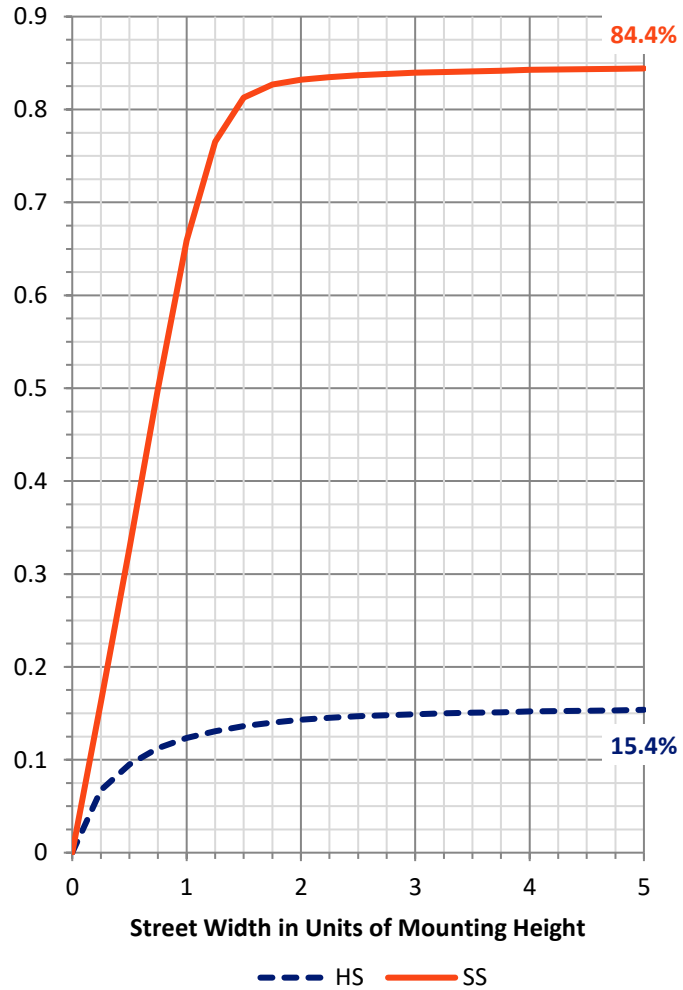
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 330.4 | 0.0 | 330.4 |
| | % Fixture | 15.5 | 0.0 | 15.5 |
| Street Side | Lumens | 1798.4 | 0.0 | 1798.4 |
| | % Fixture | 84.5 | 0.0 | 84.5 |
| Total | Lumens | 2128.8 | 0.0 | 2128.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 48.5 | 2.3 |
| 10°-20° | 123.0 | 5.8 |
| 20°-30° | 199.3 | 9.4 |
| 30°-40° | 320.6 | 15.1 |
| 40°-50° | 497.9 | 23.4 |
| 50°-60° | 536.3 | 25.2 |
| 60°-70° | 311.2 | 14.6 |
| 70°-80° | 81.3 | 3.8 |
| 80°-90° | 10.7 | 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° | 2128.8 | 100.0 |
| 0°-180° | 2128.8 | 100.0 |

Coefficient of Utilization



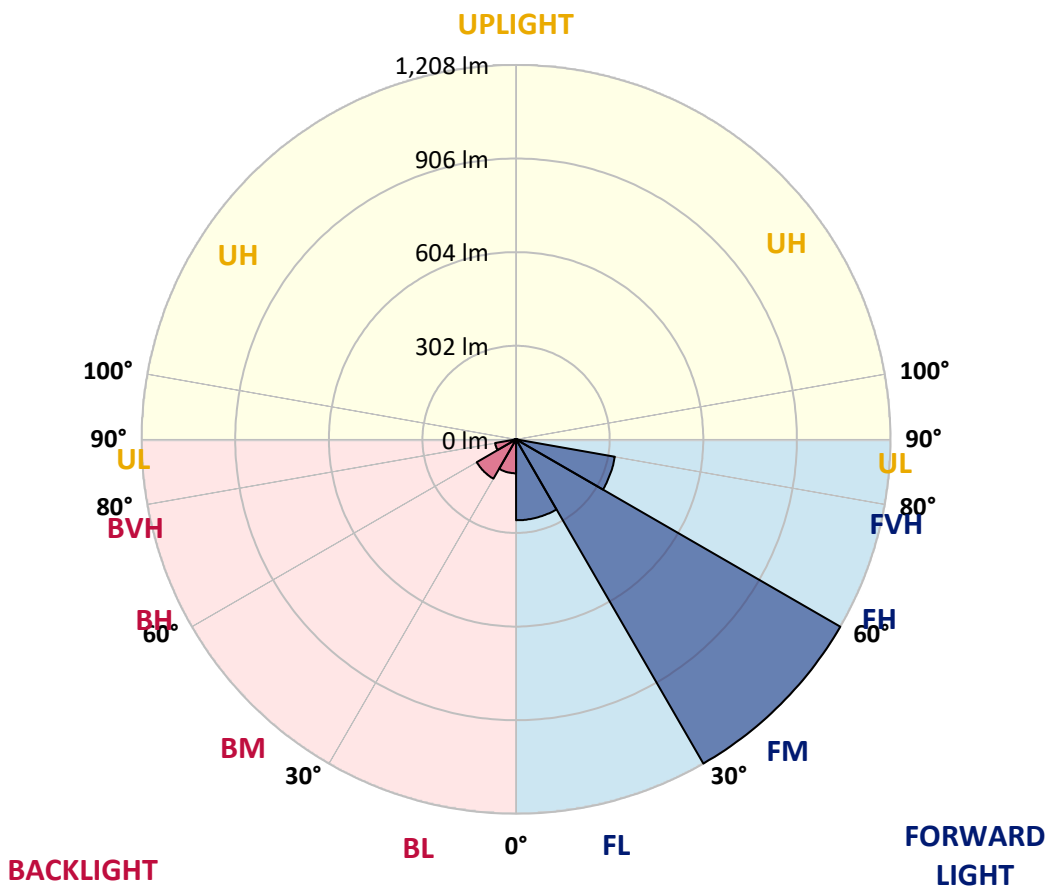
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 261.2 | 12.3 | | | |
| FM (30°-60°) | 1208.3 | 56.8 | | | |
| FH (60°-80°) | 323.8 | 15.2 | | | G0/660 |
| FVH (80°-90°) | 5.1 | 0.2 | | | G0/10 |
| BL (0°-30°) | 109.6 | 5.1 | B0/110 | | |
| BM (30°-60°) | 146.5 | 6.9 | B0/220 | | |
| BH (60°-80°) | 68.7 | 3.2 | B0/110 | | G0/110 |
| BVH (80°-90°) | 5.6 | 0.3 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 522.6 | 522.6 | 522.6 | 522.6 | 522.6 | 522.6 | 522.6 | 522.6 | 522.6 | 522.6 | 522.6 |
| 2.5° | 592.7 | 587.8 | 591.2 | 585.1 | 582.5 | 575.8 | 567.1 | 561.2 | 552.3 | 540.6 | 530.4 |
| 5° | 651.6 | 648.2 | 648.9 | 642.3 | 636.5 | 625.2 | 607.4 | 597.5 | 582.2 | 558.7 | 536.8 |
| 7.5° | 649.8 | 653.9 | 656.1 | 661.8 | 663.5 | 662.4 | 646.4 | 632.6 | 615.8 | 580.4 | 547.5 |
| 10° | 582.5 | 590.2 | 597.1 | 616.5 | 640.2 | 670.2 | 673.9 | 665.7 | 648.8 | 608.2 | 560.2 |
| 12.5° | 509.2 | 515.1 | 521.2 | 544.6 | 580.9 | 640.8 | 681.4 | 686.5 | 679.8 | 635.6 | 574.6 |
| 15° | 473.3 | 476.0 | 481.8 | 497.3 | 526.2 | 592.7 | 668.4 | 690.7 | 702.9 | 664.6 | 590.8 |
| 17.5° | 471.8 | 473.0 | 475.8 | 484.1 | 504.1 | 555.5 | 644.9 | 682.3 | 721.0 | 695.4 | 609.6 |
| 20° | 502.8 | 499.6 | 497.9 | 497.7 | 507.6 | 543.1 | 622.1 | 668.8 | 729.5 | 726.8 | 629.9 |
| 22.5° | 545.8 | 546.9 | 543.0 | 533.4 | 532.2 | 552.0 | 610.7 | 655.2 | 732.1 | 754.7 | 648.6 |
| 25° | 606.8 | 612.0 | 600.5 | 582.2 | 573.2 | 577.6 | 617.7 | 651.0 | 731.8 | 777.9 | 660.3 |
| 27.5° | 678.0 | 682.0 | 670.3 | 646.4 | 627.8 | 617.3 | 638.7 | 663.5 | 734.3 | 798.0 | 667.3 |
| 30° | 759.1 | 760.4 | 744.4 | 719.2 | 692.1 | 669.6 | 673.6 | 689.1 | 747.4 | 824.4 | 675.6 |
| 32.5° | 858.1 | 863.8 | 839.5 | 799.7 | 761.8 | 733.0 | 720.5 | 730.4 | 775.5 | 855.6 | 688.3 |
| 35° | 983.9 | 985.8 | 954.9 | 897.8 | 844.2 | 804.3 | 778.2 | 783.5 | 818.4 | 899.2 | 707.5 |
| 37.5° | 1102.4 | 1104.4 | 1071.5 | 1018.5 | 941.7 | 887.2 | 849.4 | 847.0 | 873.3 | 960.8 | 738.8 |
| 40° | 1177.6 | 1183.2 | 1168.5 | 1135.2 | 1061.9 | 988.4 | 937.1 | 928.9 | 945.2 | 1036.2 | 782.4 |
| 42.5° | 1218.1 | 1220.5 | 1220.2 | 1224.5 | 1180.9 | 1107.8 | 1036.0 | 1019.5 | 1030.5 | 1117.5 | 826.5 |
| 45° | 1218.4 | 1224.4 | 1240.4 | 1282.2 | 1284.2 | 1238.6 | 1161.0 | 1135.2 | 1125.2 | 1199.5 | 872.5 |
| 47.5° | 1163.8 | 1170.3 | 1214.4 | 1296.6 | 1357.3 | 1367.7 | 1310.7 | 1259.0 | 1216.8 | 1270.1 | 910.3 |
| 50° | 998.7 | 1014.9 | 1098.8 | 1244.3 | 1371.7 | 1471.1 | 1453.5 | 1383.4 | 1298.1 | 1324.7 | 934.0 |
| 52.5° | 855.3 | 854.7 | 906.4 | 1096.6 | 1311.6 | 1516.6 | 1591.7 | 1511.4 | 1378.6 | 1359.3 | 940.0 |
| 55° | 626.3 | 629.7 | 682.6 | 838.6 | 1151.3 | 1472.6 | 1667.7 | 1629.2 | 1470.9 | 1377.7 | 937.6 |
| 57.5° | 324.8 | 341.8 | 396.1 | 535.2 | 874.8 | 1320.9 | 1647.5 | 1673.1 | 1564.7 | 1390.7 | 940.7 |
| 60° | 164.1 | 160.8 | 180.3 | 255.5 | 506.8 | 1031.7 | 1522.8 | 1604.5 | 1581.7 | 1400.9 | 942.6 |
| 62.5° | 109.6 | 108.7 | 103.3 | 118.4 | 207.1 | 611.0 | 1298.1 | 1412.6 | 1464.0 | 1377.0 | 917.8 |
| 65° | 94.9 | 93.1 | 83.2 | 82.6 | 100.6 | 253.4 | 951.5 | 1110.5 | 1210.0 | 1270.4 | 858.3 |
| 67.5° | 85.4 | 82.7 | 72.7 | 67.7 | 72.2 | 111.3 | 536.2 | 744.8 | 893.5 | 1074.4 | 727.9 |
| 70° | 76.3 | 74.9 | 64.9 | 57.7 | 57.2 | 67.9 | 197.5 | 384.4 | 546.7 | 733.0 | 532.2 |
| 72.5° | 68.3 | 65.9 | 57.4 | 50.5 | 47.1 | 48.1 | 85.7 | 148.1 | 282.9 | 457.2 | 318.3 |
| 75° | 59.2 | 57.4 | 49.9 | 43.0 | 38.8 | 35.2 | 52.3 | 68.5 | 129.0 | 217.3 | 150.3 |
| 77.5° | 45.7 | 44.5 | 39.4 | 34.2 | 31.8 | 26.2 | 31.8 | 43.2 | 59.6 | 91.6 | 78.2 |
| 80° | 26.5 | 27.3 | 29.4 | 26.7 | 23.4 | 18.7 | 20.7 | 24.9 | 35.8 | 49.6 | 44.4 |
| 82.5° | 13.3 | 14.2 | 19.0 | 15.4 | 13.9 | 10.9 | 12.3 | 14.7 | 18.7 | 27.4 | 17.4 |
| 85° | 1.0 | 1.0 | 3.4 | 3.9 | 4.8 | 3.9 | 4.9 | 6.0 | 8.5 | 10.9 | 5.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.7 | 1.3 | 2.5 | 1.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 522.6 | 522.6 | 522.6 | 522.6 | 522.6 | 522.6 | 522.6 | 522.6 | 522.6 | 522.6 | 522.6 |
| 2.5° | 523.5 | 515.8 | 506.7 | 499.2 | 487.7 | 481.5 | 473.7 | 464.1 | 460.2 | 458.4 | 457.4 |
| 5° | 524.5 | 511.0 | 491.6 | 473.6 | 453.6 | 437.9 | 420.4 | 402.1 | 391.6 | 389.0 | 387.3 |
| 7.5° | 528.4 | 509.5 | 478.5 | 448.8 | 411.8 | 377.5 | 344.1 | 311.0 | 294.0 | 287.6 | 287.0 |
| 10° | 533.8 | 508.9 | 465.3 | 416.0 | 353.5 | 299.3 | 260.2 | 234.2 | 223.3 | 219.7 | 218.5 |
| 12.5° | 540.6 | 508.5 | 447.9 | 370.5 | 286.2 | 235.0 | 212.7 | 208.5 | 210.0 | 209.7 | 209.7 |
| 15° | 549.1 | 509.1 | 427.0 | 318.9 | 231.5 | 204.0 | 204.4 | 209.4 | 214.0 | 214.8 | 214.8 |
| 17.5° | 558.4 | 508.5 | 396.5 | 267.2 | 198.7 | 196.6 | 203.5 | 210.4 | 214.6 | 215.2 | 215.2 |
| 20° | 568.4 | 505.6 | 358.2 | 218.5 | 184.3 | 192.0 | 199.5 | 204.9 | 207.4 | 208.0 | 208.0 |
| 22.5° | 574.4 | 497.6 | 316.5 | 184.9 | 175.2 | 184.6 | 189.6 | 195.1 | 195.4 | 190.6 | 190.5 |
| 25° | 573.5 | 482.4 | 269.0 | 163.4 | 165.5 | 173.7 | 180.0 | 176.1 | 171.3 | 168.6 | 168.1 |
| 27.5° | 567.8 | 459.6 | 220.6 | 147.0 | 153.9 | 163.2 | 161.3 | 158.0 | 156.8 | 153.8 | 153.5 |
| 30° | 560.6 | 431.6 | 177.1 | 134.3 | 141.9 | 150.5 | 147.5 | 147.2 | 146.0 | 142.7 | 142.7 |
| 32.5° | 553.7 | 402.7 | 144.3 | 124.8 | 134.3 | 134.9 | 139.1 | 139.4 | 138.8 | 133.1 | 132.5 |
| 35° | 551.8 | 373.8 | 122.1 | 117.3 | 126.8 | 126.5 | 132.5 | 132.3 | 122.0 | 114.0 | 113.9 |
| 37.5° | 557.6 | 344.4 | 109.0 | 111.2 | 116.4 | 120.3 | 125.1 | 116.4 | 113.0 | 108.2 | 107.9 |
| 40° | 570.1 | 317.3 | 102.2 | 107.6 | 109.9 | 115.5 | 108.1 | 108.7 | 107.8 | 104.2 | 103.7 |
| 42.5° | 586.6 | 294.2 | 98.5 | 106.4 | 106.1 | 107.6 | 99.4 | 101.8 | 103.1 | 100.4 | 100.0 |
| 45° | 602.5 | 274.1 | 96.5 | 101.9 | 103.4 | 94.7 | 93.1 | 95.3 | 97.4 | 96.4 | 95.9 |
| 47.5° | 614.1 | 256.7 | 95.5 | 95.8 | 100.0 | 90.4 | 87.7 | 88.7 | 91.3 | 91.7 | 91.6 |
| 50° | 617.7 | 241.9 | 94.3 | 90.7 | 89.8 | 86.0 | 83.9 | 83.6 | 86.6 | 88.7 | 89.0 |
| 52.5° | 610.8 | 228.7 | 91.1 | 86.2 | 81.8 | 82.4 | 81.7 | 80.2 | 83.2 | 86.0 | 86.3 |
| 55° | 600.7 | 221.2 | 86.2 | 81.8 | 76.7 | 79.1 | 79.4 | 78.1 | 80.0 | 82.0 | 82.0 |
| 57.5° | 601.4 | 225.5 | 81.4 | 77.8 | 72.2 | 75.4 | 77.0 | 76.4 | 76.4 | 77.9 | 78.1 |
| 60° | 606.4 | 231.8 | 78.2 | 72.7 | 67.7 | 71.0 | 74.8 | 74.2 | 72.8 | 74.8 | 74.8 |
| 62.5° | 592.1 | 223.4 | 76.1 | 67.7 | 62.9 | 66.8 | 71.3 | 71.0 | 69.5 | 72.7 | 73.0 |
| 65° | 550.2 | 201.0 | 73.7 | 61.6 | 58.1 | 62.6 | 66.5 | 67.6 | 66.2 | 70.4 | 71.2 |
| 67.5° | 461.1 | 169.0 | 69.1 | 55.7 | 53.4 | 57.5 | 61.3 | 62.8 | 61.7 | 66.7 | 67.3 |
| 70° | 343.8 | 136.8 | 61.7 | 49.3 | 47.5 | 51.3 | 54.7 | 55.3 | 55.4 | 61.3 | 61.9 |
| 72.5° | 219.3 | 106.4 | 52.0 | 42.1 | 40.8 | 43.6 | 46.2 | 48.6 | 49.6 | 55.2 | 55.0 |
| 75° | 122.3 | 79.1 | 41.8 | 35.7 | 33.3 | 35.5 | 38.5 | 41.4 | 44.4 | 52.5 | 53.4 |
| 77.5° | 70.4 | 55.6 | 33.1 | 28.6 | 25.8 | 28.2 | 30.7 | 34.8 | 43.8 | 50.8 | 49.9 |
| 80° | 39.7 | 36.1 | 25.0 | 21.0 | 19.2 | 21.0 | 22.9 | 30.6 | 34.5 | 37.5 | 37.9 |
| 82.5° | 18.6 | 20.2 | 17.1 | 12.9 | 12.9 | 14.1 | 15.9 | 23.7 | 26.1 | 21.3 | 18.6 |
| 85° | 6.7 | 9.1 | 8.4 | 6.6 | 5.8 | 5.7 | 9.9 | 13.5 | 8.4 | 7.5 | 6.4 |
| 87.5° | 1.8 | 2.5 | 2.4 | 1.6 | 0.9 | 0.7 | 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)