

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: P628799

Luminaire Tested: GWS-SA1A-735-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-735-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2209.9 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

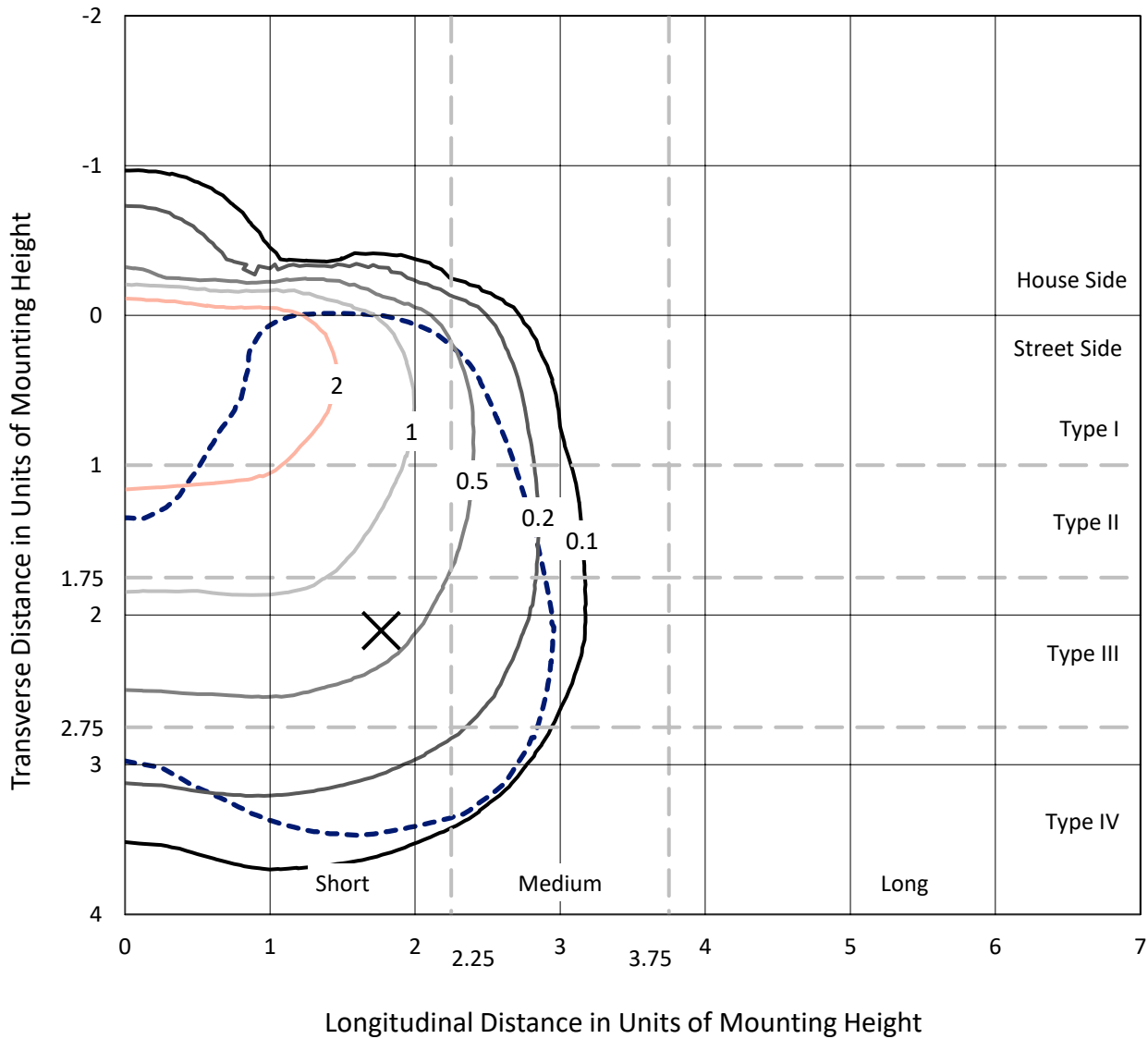
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

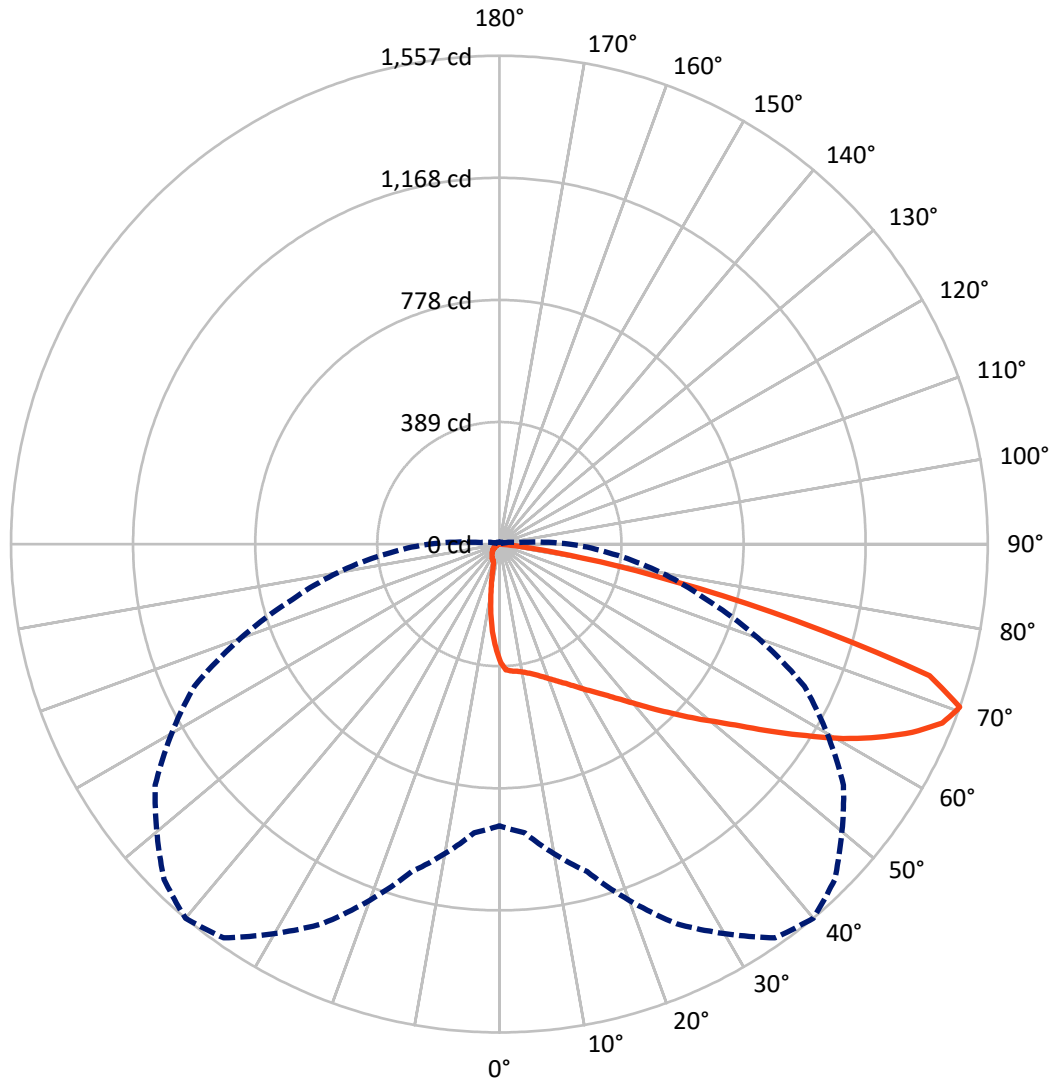
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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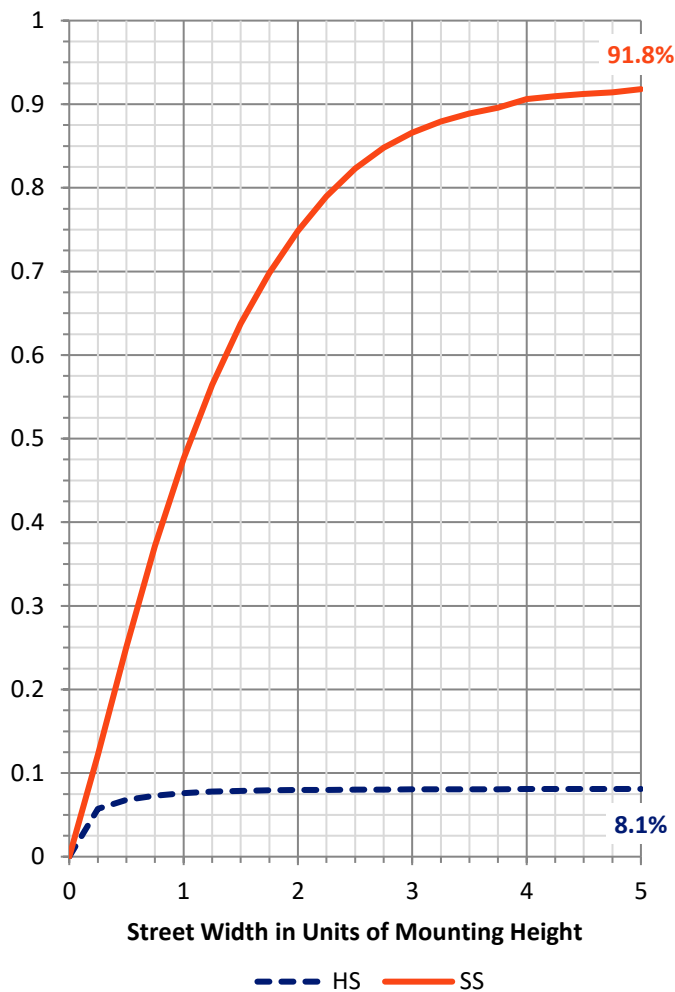
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 180.7 | 0.0 | 180.7 |
| | % Fixture | 8.2 | 0.0 | 8.2 |
| Street Side | Lumens | 2029.2 | 0.0 | 2029.2 |
| | % Fixture | 91.8 | 0.0 | 91.8 |
| Total | Lumens | 2209.9 | 0.0 | 2209.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 31.7 | 1.4 |
| 10°-20° | 80.4 | 3.6 |
| 20°-30° | 134.5 | 6.1 |
| 30°-40° | 211.3 | 9.6 |
| 40°-50° | 334.2 | 15.1 |
| 50°-60° | 487.6 | 22.1 |
| 60°-70° | 604.4 | 27.4 |
| 70°-80° | 305.8 | 13.8 |
| 80°-90° | 20.0 | 0.9 |
| 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° | 2209.9 | 100.0 |
| 0°-180° | 2209.9 | 100.0 |

Coefficient of Utilization



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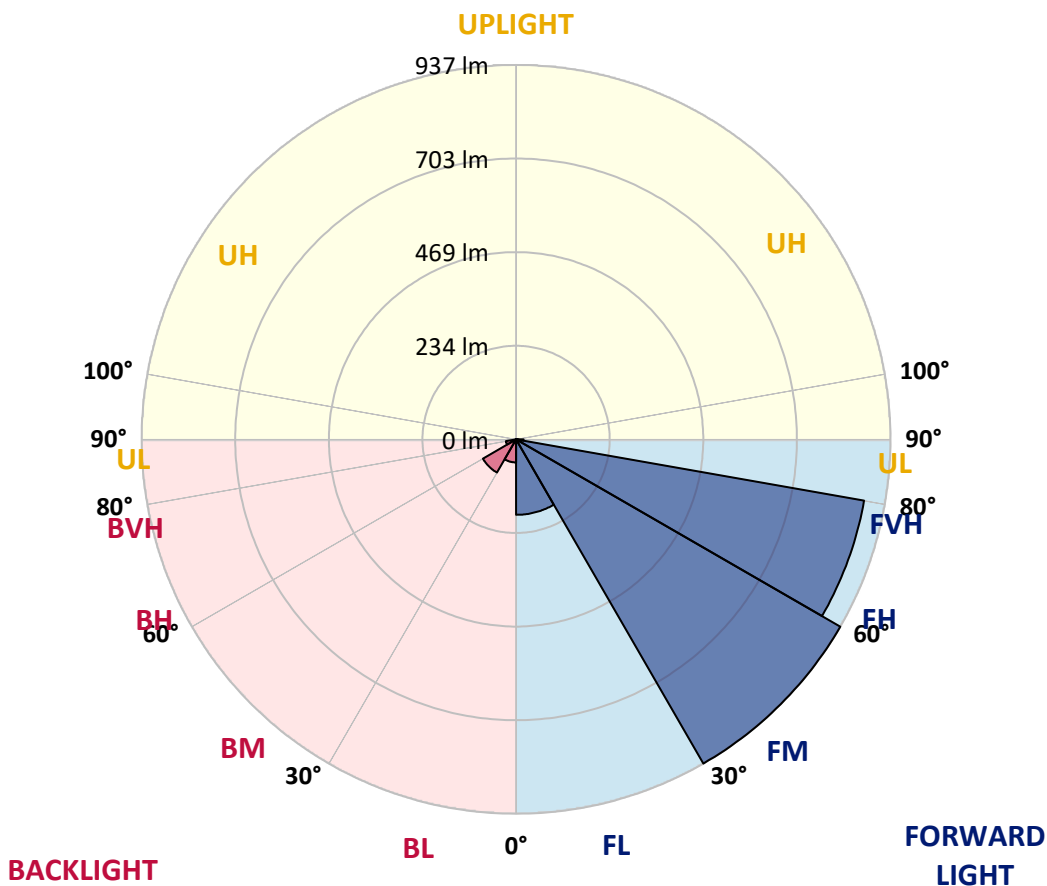
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 188.9 | 8.5 | | | |
| FM (30°-60°) | 937.2 | 42.4 | | | |
| FH (60°-80°) | 884.4 | 40.0 | | | G1/1800 |
| FVH (80°-90°) | 18.6 | 0.8 | | | G1/100 |
| BL (0°-30°) | 57.7 | 2.6 | B0/110 | | |
| BM (30°-60°) | 95.9 | 4.3 | B0/220 | | |
| BH (60°-80°) | 25.8 | 1.2 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.3 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 375.0 | 375.0 | 375.0 | 375.0 | 375.0 | 375.0 | 375.0 | 375.0 | 375.0 | 375.0 | 375.0 |
| 2.5° | 403.1 | 404.6 | 404.3 | 405.0 | 403.5 | 401.3 | 400.9 | 397.9 | 392.5 | 385.7 | 378.0 |
| 5° | 411.4 | 413.0 | 411.8 | 411.2 | 408.6 | 406.2 | 405.6 | 402.3 | 396.1 | 386.9 | 373.6 |
| 7.5° | 418.4 | 418.8 | 418.0 | 416.6 | 412.8 | 409.6 | 407.4 | 402.9 | 395.5 | 386.3 | 371.0 |
| 10° | 419.6 | 419.4 | 419.8 | 420.0 | 417.6 | 414.8 | 413.0 | 407.0 | 397.5 | 387.7 | 371.2 |
| 12.5° | 418.2 | 418.2 | 420.8 | 423.9 | 423.9 | 422.4 | 420.6 | 415.2 | 404.1 | 392.5 | 375.2 |
| 15° | 420.0 | 420.6 | 425.7 | 431.3 | 433.1 | 431.7 | 430.9 | 425.3 | 413.8 | 400.9 | 382.4 |
| 17.5° | 426.5 | 427.1 | 435.1 | 443.6 | 445.8 | 444.2 | 442.6 | 436.9 | 424.7 | 410.6 | 390.7 |
| 20° | 435.9 | 437.5 | 447.8 | 458.6 | 460.6 | 458.6 | 455.4 | 447.6 | 435.3 | 421.0 | 398.5 |
| 22.5° | 453.2 | 454.2 | 465.3 | 476.7 | 477.7 | 474.5 | 469.7 | 458.8 | 446.0 | 432.1 | 407.4 |
| 25° | 476.1 | 477.5 | 488.6 | 499.7 | 497.0 | 492.2 | 485.6 | 473.3 | 458.6 | 445.2 | 418.6 |
| 27.5° | 503.5 | 505.1 | 515.9 | 525.6 | 518.8 | 513.1 | 505.7 | 490.4 | 475.5 | 463.3 | 433.1 |
| 30° | 533.0 | 534.4 | 544.1 | 552.7 | 543.7 | 537.1 | 528.2 | 512.5 | 497.4 | 488.2 | 453.6 |
| 32.5° | 561.6 | 561.4 | 570.6 | 577.7 | 568.4 | 563.2 | 555.2 | 539.3 | 527.2 | 523.2 | 484.2 |
| 35° | 588.1 | 588.1 | 595.8 | 602.8 | 596.2 | 593.4 | 585.9 | 573.2 | 566.4 | 571.2 | 525.0 |
| 37.5° | 614.9 | 613.5 | 620.7 | 628.5 | 627.9 | 628.1 | 623.9 | 617.9 | 618.3 | 635.4 | 581.1 |
| 40° | 637.0 | 636.4 | 644.8 | 655.1 | 663.1 | 669.6 | 666.9 | 669.2 | 681.8 | 713.8 | 652.9 |
| 42.5° | 654.7 | 656.1 | 666.9 | 683.2 | 703.5 | 716.6 | 718.4 | 727.5 | 760.0 | 809.5 | 733.9 |
| 45° | 675.0 | 675.2 | 690.3 | 715.2 | 747.6 | 768.3 | 775.5 | 798.8 | 845.1 | 908.8 | 822.8 |
| 47.5° | 699.9 | 697.5 | 714.4 | 749.4 | 796.2 | 826.8 | 839.7 | 868.8 | 940.4 | 1005.7 | 895.2 |
| 50° | 727.5 | 723.0 | 742.1 | 789.8 | 850.7 | 888.9 | 915.1 | 957.7 | 1034.9 | 1085.4 | 949.0 |
| 52.5° | 759.4 | 755.2 | 776.9 | 836.2 | 916.1 | 962.5 | 996.1 | 1039.1 | 1115.9 | 1146.1 | 981.2 |
| 55° | 800.1 | 795.8 | 818.8 | 891.9 | 993.3 | 1053.6 | 1088.8 | 1125.0 | 1191.3 | 1190.9 | 1004.5 |
| 57.5° | 845.1 | 839.3 | 871.0 | 962.3 | 1089.6 | 1152.3 | 1188.1 | 1205.8 | 1248.6 | 1225.7 | 1020.2 |
| 60° | 896.8 | 891.5 | 935.6 | 1046.2 | 1200.8 | 1258.9 | 1281.4 | 1274.2 | 1295.7 | 1246.2 | 1014.8 |
| 62.5° | 943.4 | 941.0 | 995.7 | 1135.0 | 1306.7 | 1355.8 | 1362.0 | 1330.5 | 1330.3 | 1246.6 | 978.2 |
| 65° | 991.9 | 996.5 | 1077.7 | 1237.4 | 1413.3 | 1446.3 | 1435.6 | 1386.4 | 1344.1 | 1197.4 | 870.0 |
| 67.5° | 1010.0 | 1023.4 | 1131.8 | 1329.9 | 1497.4 | 1523.1 | 1504.4 | 1414.3 | 1286.4 | 1031.7 | 662.5 |
| 70° | 898.2 | 923.5 | 1080.7 | 1335.1 | 1532.1 | 1556.7 | 1511.8 | 1339.1 | 1072.5 | 683.4 | 362.9 |
| 72.5° | 683.0 | 712.6 | 900.6 | 1093.2 | 1377.9 | 1433.8 | 1357.2 | 1091.0 | 691.3 | 299.4 | 121.8 |
| 75° | 382.2 | 414.2 | 670.8 | 823.2 | 925.1 | 976.2 | 948.0 | 699.9 | 306.2 | 78.2 | 36.4 |
| 77.5° | 129.3 | 139.9 | 312.1 | 509.3 | 610.6 | 564.8 | 478.1 | 347.6 | 112.6 | 29.8 | 19.3 |
| 80° | 76.6 | 80.6 | 116.2 | 253.5 | 321.3 | 266.4 | 210.3 | 128.5 | 57.3 | 15.9 | 13.5 |
| 82.5° | 22.9 | 27.1 | 64.1 | 94.1 | 125.9 | 78.4 | 66.4 | 73.4 | 29.8 | 8.6 | 11.3 |
| 85° | 0.0 | 0.0 | 13.7 | 29.2 | 33.0 | 12.9 | 12.9 | 41.6 | 5.4 | 3.6 | 8.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 1.0 | 0.6 | 0.8 | 1.8 |
| 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° | 375.0 | 375.0 | 375.0 | 375.0 | 375.0 | 375.0 | 375.0 | 375.0 | 375.0 | 375.0 | 375.0 |
| 2.5° | 372.6 | 365.5 | 357.3 | 349.5 | 342.0 | 332.4 | 327.7 | 322.1 | 317.3 | 314.7 | 316.1 |
| 5° | 365.1 | 354.1 | 337.2 | 320.1 | 302.8 | 286.5 | 271.8 | 262.0 | 253.1 | 248.5 | 249.5 |
| 7.5° | 358.7 | 343.8 | 317.5 | 289.5 | 261.8 | 233.8 | 211.1 | 193.4 | 179.8 | 174.1 | 173.1 |
| 10° | 355.9 | 337.2 | 300.0 | 259.8 | 217.2 | 179.6 | 147.4 | 127.9 | 114.0 | 107.2 | 108.4 |
| 12.5° | 357.3 | 333.8 | 285.1 | 230.6 | 175.3 | 131.5 | 100.7 | 82.4 | 72.6 | 68.6 | 67.6 |
| 15° | 361.3 | 333.0 | 271.8 | 200.9 | 135.3 | 91.9 | 69.6 | 62.1 | 60.1 | 59.7 | 59.7 |
| 17.5° | 365.9 | 333.2 | 258.2 | 170.7 | 102.7 | 68.2 | 59.5 | 58.1 | 57.5 | 57.1 | 57.3 |
| 20° | 370.6 | 333.2 | 242.5 | 140.1 | 77.2 | 58.9 | 56.7 | 55.7 | 55.1 | 54.9 | 54.9 |
| 22.5° | 376.2 | 333.2 | 225.0 | 111.8 | 61.9 | 55.9 | 54.1 | 53.5 | 52.9 | 52.7 | 52.5 |
| 25° | 383.0 | 333.4 | 205.7 | 87.5 | 56.3 | 53.3 | 51.9 | 51.3 | 50.7 | 50.3 | 50.3 |
| 27.5° | 392.9 | 335.0 | 184.4 | 68.2 | 53.1 | 50.9 | 49.7 | 49.1 | 48.5 | 47.9 | 47.9 |
| 30° | 407.2 | 339.0 | 160.5 | 56.3 | 50.1 | 48.3 | 47.1 | 46.6 | 46.0 | 45.4 | 45.2 |
| 32.5° | 428.5 | 346.0 | 135.7 | 50.5 | 47.3 | 45.4 | 44.0 | 43.6 | 43.0 | 42.4 | 42.2 |
| 35° | 458.2 | 358.9 | 111.6 | 46.8 | 43.6 | 41.8 | 41.0 | 40.8 | 40.0 | 39.4 | 39.4 |
| 37.5° | 501.9 | 379.8 | 88.5 | 43.2 | 40.6 | 39.2 | 38.2 | 37.8 | 37.0 | 36.4 | 36.2 |
| 40° | 555.2 | 407.0 | 68.8 | 40.4 | 37.8 | 36.4 | 35.4 | 34.8 | 33.8 | 33.0 | 32.6 |
| 42.5° | 623.1 | 440.1 | 54.3 | 37.4 | 35.2 | 33.8 | 33.0 | 31.8 | 30.4 | 29.2 | 29.0 |
| 45° | 693.9 | 474.3 | 44.8 | 34.6 | 32.8 | 31.6 | 30.6 | 29.0 | 26.9 | 25.5 | 25.1 |
| 47.5° | 748.2 | 495.6 | 39.2 | 31.6 | 30.2 | 29.2 | 27.9 | 25.9 | 23.5 | 21.9 | 21.5 |
| 50° | 787.0 | 498.9 | 35.0 | 28.8 | 27.9 | 26.9 | 25.1 | 22.7 | 20.1 | 18.5 | 18.1 |
| 52.5° | 806.1 | 484.4 | 31.6 | 26.1 | 25.5 | 24.5 | 22.3 | 19.7 | 16.9 | 15.3 | 14.9 |
| 55° | 814.7 | 457.0 | 28.4 | 23.9 | 23.1 | 21.9 | 19.5 | 16.7 | 13.9 | 12.5 | 12.1 |
| 57.5° | 811.3 | 416.6 | 25.5 | 21.7 | 20.7 | 19.3 | 16.7 | 13.7 | 11.5 | 10.1 | 9.9 |
| 60° | 786.0 | 359.9 | 22.7 | 19.5 | 18.3 | 16.7 | 14.1 | 11.3 | 9.2 | 8.2 | 8.0 |
| 62.5° | 731.3 | 289.5 | 19.9 | 16.9 | 16.1 | 14.5 | 12.1 | 9.2 | 7.6 | 7.0 | 6.8 |
| 65° | 619.3 | 204.7 | 17.1 | 14.3 | 13.9 | 12.3 | 10.1 | 7.6 | 6.6 | 6.2 | 6.0 |
| 67.5° | 445.2 | 124.5 | 14.5 | 12.3 | 11.9 | 10.5 | 8.4 | 6.6 | 6.0 | 5.8 | 5.8 |
| 70° | 223.8 | 58.9 | 11.5 | 10.1 | 10.1 | 8.6 | 7.2 | 6.0 | 5.8 | 5.6 | 5.6 |
| 72.5° | 76.0 | 25.1 | 8.6 | 7.8 | 8.2 | 7.4 | 6.2 | 5.6 | 5.6 | 5.6 | 5.6 |
| 75° | 25.9 | 13.3 | 6.0 | 5.6 | 6.0 | 6.0 | 5.4 | 5.4 | 5.6 | 5.6 | 5.6 |
| 77.5° | 16.9 | 8.8 | 4.2 | 3.8 | 4.6 | 4.6 | 4.6 | 5.0 | 5.4 | 5.4 | 5.4 |
| 80° | 13.9 | 4.8 | 2.8 | 2.6 | 3.4 | 3.4 | 3.8 | 4.6 | 5.0 | 5.0 | 5.0 |
| 82.5° | 11.9 | 3.0 | 1.6 | 1.8 | 2.4 | 2.6 | 3.2 | 3.8 | 4.4 | 4.6 | 4.6 |
| 85° | 8.0 | 1.6 | 1.2 | 1.4 | 1.6 | 2.0 | 2.6 | 3.2 | 3.6 | 4.0 | 4.0 |
| 87.5° | 2.2 | 0.6 | 0.8 | 1.0 | 1.0 | 1.4 | 2.0 | 2.4 | 2.8 | 3.0 | 3.0 |
| 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)