

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: P628650

Luminaire Tested: GWS-SA1A-722-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-722-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1843.6 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

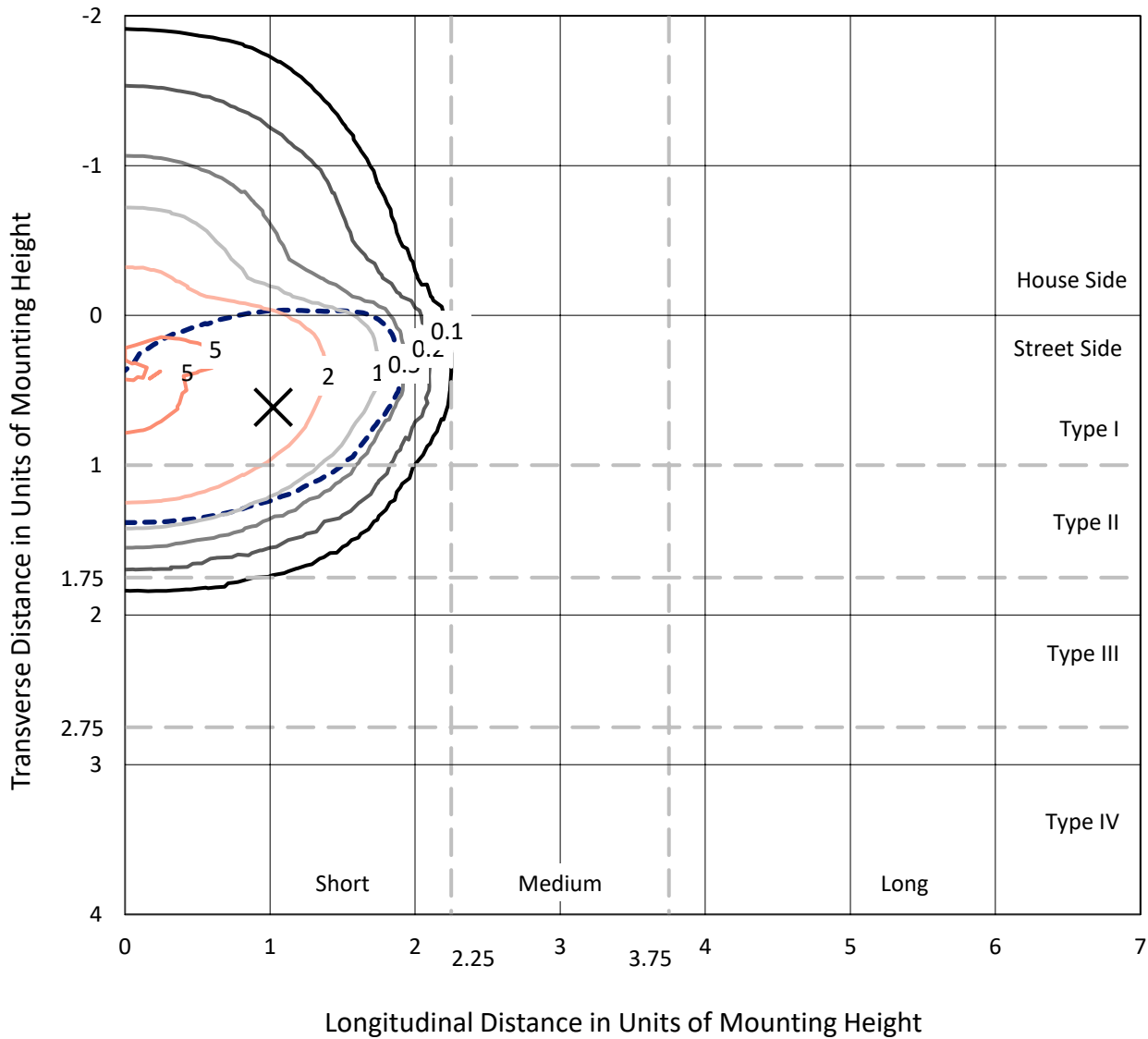
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

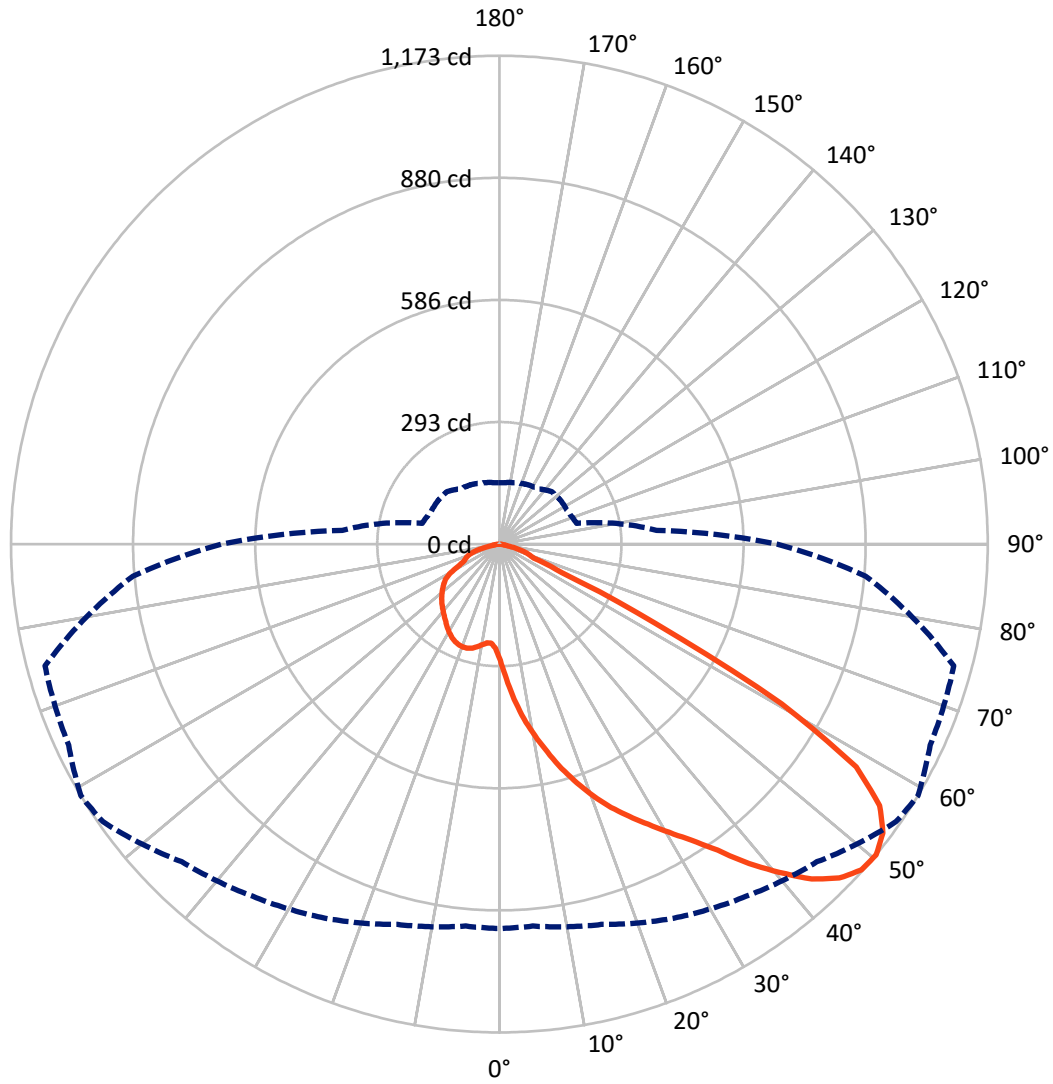
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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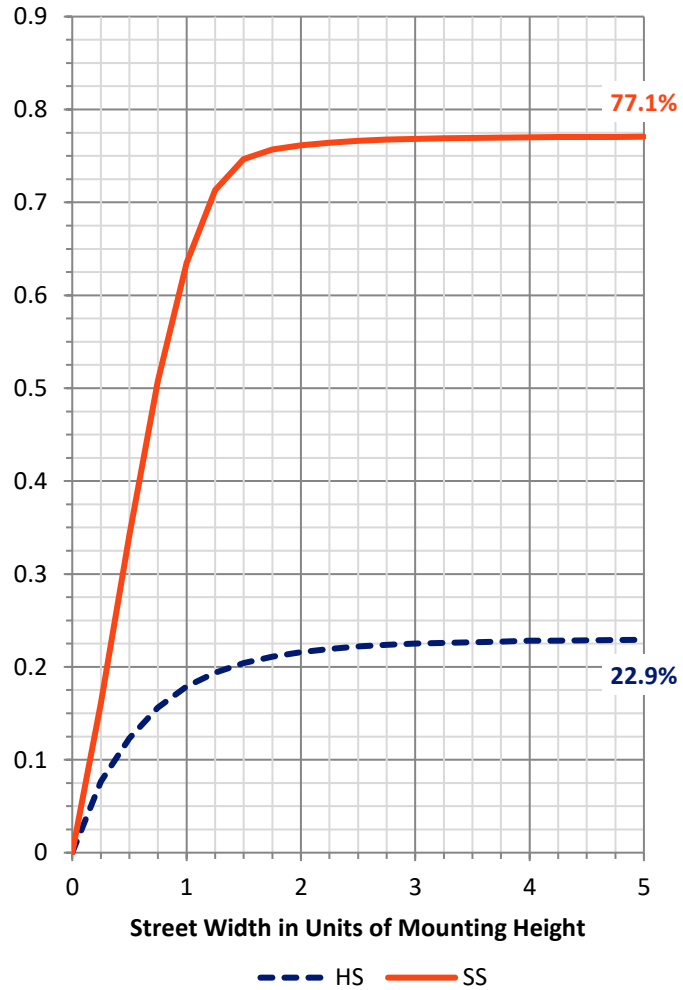
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 424.1 | 0.0 | 424.1 |
| | % Fixture | 23.0 | 0.0 | 23.0 |
| Street Side | Lumens | 1419.5 | 0.0 | 1419.5 |
| | % Fixture | 77.0 | 0.0 | 77.0 |
| Total | Lumens | 1843.6 | 0.0 | 1843.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 31.3 | 1.7 |
| 10°-20° | 113.8 | 6.2 |
| 20°-30° | 215.4 | 11.7 |
| 30°-40° | 357.2 | 19.4 |
| 40°-50° | 488.0 | 26.5 |
| 50°-60° | 442.9 | 24.0 |
| 60°-70° | 147.5 | 8.0 |
| 70°-80° | 43.0 | 2.3 |
| 80°-90° | 4.5 | 0.2 |
| 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° | 1843.6 | 100.0 |
| 0°-180° | 1843.6 | 100.0 |

Coefficient of Utilization



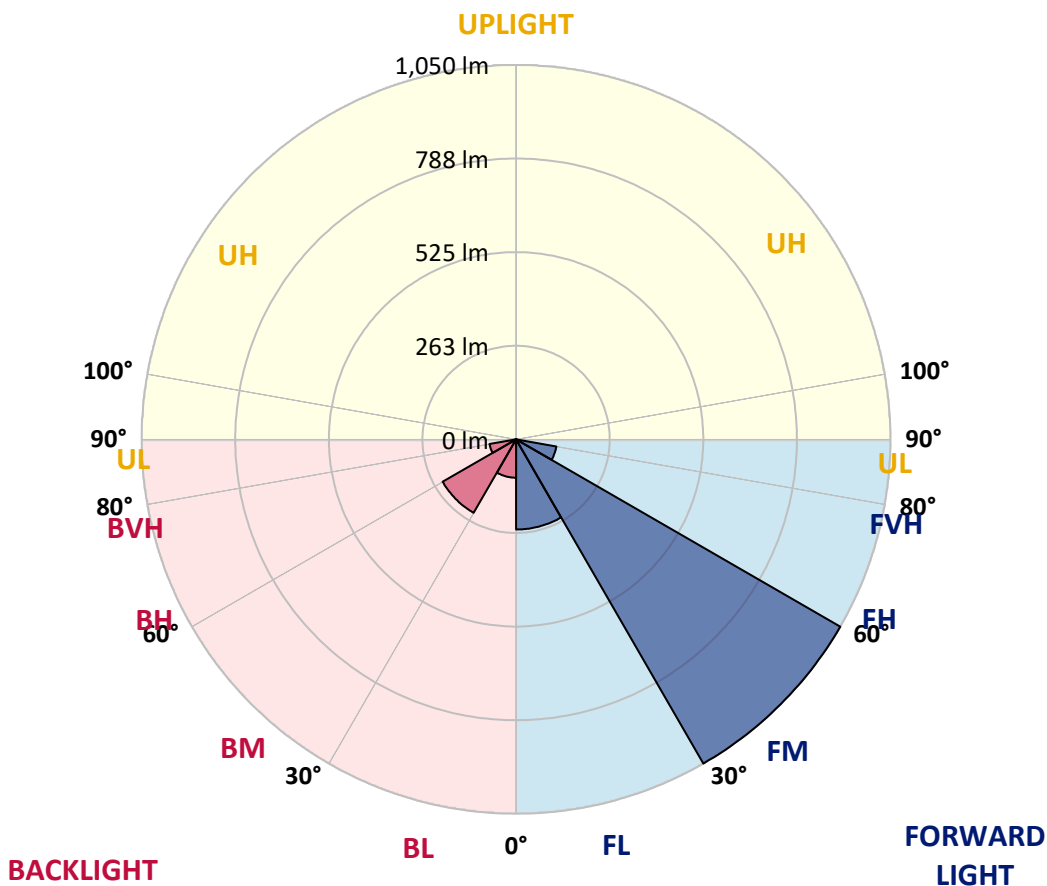
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 252.8 | 13.7 | | | |
| FM (30°-60°) | 1050.1 | 57.0 | | | |
| FH (60°-80°) | 114.8 | 6.2 | | | G0/660 |
| FVH (80°-90°) | 1.8 | 0.1 | | | G0/10 |
| BL (0°-30°) | 107.7 | 5.8 | B0/110 | | |
| BM (30°-60°) | 237.9 | 12.9 | B1/1000 | | |
| BH (60°-80°) | 75.7 | 4.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 2.8 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 279.3 | 279.3 | 279.3 | 279.3 | 279.3 | 279.3 | 279.3 | 279.3 | 279.3 | 279.3 | 279.3 |
| 2.5° | 361.9 | 364.6 | 360.4 | 360.7 | 350.2 | 345.4 | 331.9 | 323.9 | 318.7 | 303.9 | 290.6 |
| 5° | 434.9 | 431.7 | 428.4 | 426.5 | 417.3 | 404.4 | 387.6 | 374.2 | 361.9 | 333.1 | 305.3 |
| 7.5° | 479.6 | 478.0 | 475.7 | 474.5 | 465.5 | 452.0 | 435.2 | 423.8 | 405.9 | 366.9 | 323.2 |
| 10° | 517.6 | 515.7 | 514.3 | 515.2 | 507.9 | 499.2 | 480.8 | 467.8 | 447.7 | 402.6 | 344.8 |
| 12.5° | 547.1 | 548.1 | 548.6 | 553.4 | 550.2 | 545.0 | 526.0 | 512.2 | 489.9 | 440.3 | 370.2 |
| 15° | 570.4 | 570.0 | 575.3 | 584.5 | 589.6 | 586.3 | 571.1 | 559.5 | 532.2 | 477.4 | 397.5 |
| 17.5° | 575.8 | 576.1 | 584.3 | 600.4 | 617.1 | 625.2 | 616.6 | 602.8 | 575.8 | 514.0 | 425.9 |
| 20° | 580.1 | 580.7 | 589.3 | 607.6 | 631.9 | 654.6 | 655.9 | 646.0 | 622.8 | 553.7 | 454.7 |
| 22.5° | 607.6 | 608.9 | 611.2 | 622.8 | 644.7 | 673.4 | 689.1 | 687.0 | 667.5 | 595.3 | 485.8 |
| 25° | 679.8 | 675.8 | 664.8 | 661.5 | 669.9 | 693.2 | 720.1 | 724.1 | 714.5 | 641.1 | 519.3 |
| 27.5° | 769.0 | 764.7 | 748.5 | 731.3 | 713.2 | 721.3 | 750.0 | 762.1 | 762.3 | 691.5 | 552.9 |
| 30° | 850.0 | 846.5 | 833.3 | 808.8 | 777.4 | 765.7 | 786.9 | 803.3 | 813.0 | 749.8 | 591.2 |
| 32.5° | 919.2 | 916.0 | 898.2 | 878.2 | 847.6 | 824.0 | 831.6 | 847.4 | 870.2 | 825.2 | 638.8 |
| 35° | 977.5 | 974.3 | 957.2 | 937.1 | 908.7 | 894.6 | 891.9 | 902.7 | 932.3 | 903.9 | 693.5 |
| 37.5° | 1024.8 | 1021.6 | 1003.7 | 984.8 | 963.2 | 964.1 | 968.2 | 973.4 | 990.4 | 988.1 | 751.9 |
| 40° | 1055.4 | 1052.1 | 1039.3 | 1025.8 | 1012.2 | 1023.0 | 1043.1 | 1036.8 | 1045.8 | 1056.2 | 805.7 |
| 42.5° | 1069.1 | 1064.9 | 1057.5 | 1054.5 | 1050.3 | 1067.1 | 1105.9 | 1099.6 | 1088.7 | 1101.5 | 845.6 |
| 45° | 1055.4 | 1051.8 | 1051.6 | 1060.8 | 1070.6 | 1092.2 | 1149.3 | 1144.2 | 1116.8 | 1123.4 | 869.5 |
| 47.5° | 1013.5 | 1010.4 | 1018.9 | 1042.9 | 1067.0 | 1098.5 | 1168.6 | 1169.5 | 1136.8 | 1132.6 | 885.0 |
| 50° | 923.0 | 920.8 | 945.6 | 991.1 | 1032.6 | 1078.8 | 1162.5 | 1172.8 | 1141.6 | 1129.7 | 883.0 |
| 52.5° | 738.8 | 748.6 | 802.5 | 878.5 | 959.0 | 1044.3 | 1139.6 | 1153.2 | 1118.5 | 1111.0 | 872.5 |
| 55° | 505.8 | 510.3 | 564.2 | 675.2 | 802.8 | 969.5 | 1087.2 | 1108.1 | 1091.1 | 1107.8 | 883.5 |
| 57.5° | 261.9 | 265.5 | 308.0 | 406.5 | 544.5 | 766.2 | 941.7 | 1010.2 | 1036.0 | 1123.7 | 917.5 |
| 60° | 107.5 | 110.5 | 128.1 | 175.7 | 274.7 | 446.2 | 677.7 | 779.2 | 839.9 | 1026.3 | 814.8 |
| 62.5° | 78.1 | 79.6 | 88.0 | 104.8 | 143.9 | 218.6 | 383.5 | 420.9 | 463.6 | 643.2 | 517.3 |
| 65° | 65.8 | 67.4 | 74.2 | 84.4 | 105.0 | 134.1 | 163.8 | 164.7 | 181.6 | 262.0 | 191.8 |
| 67.5° | 55.1 | 56.6 | 62.6 | 71.3 | 84.8 | 95.2 | 88.0 | 88.2 | 87.9 | 95.1 | 91.9 |
| 70° | 42.9 | 44.2 | 50.2 | 59.5 | 66.5 | 61.1 | 68.8 | 76.1 | 73.0 | 75.8 | 80.2 |
| 72.5° | 31.4 | 32.7 | 38.0 | 45.1 | 43.2 | 43.5 | 55.7 | 63.2 | 61.4 | 64.6 | 68.6 |
| 75° | 22.7 | 23.6 | 26.3 | 22.5 | 23.7 | 28.7 | 39.2 | 43.2 | 45.1 | 47.8 | 51.4 |
| 77.5° | 7.4 | 7.4 | 8.3 | 10.4 | 12.9 | 15.9 | 20.0 | 21.6 | 24.3 | 27.3 | 29.9 |
| 80° | 3.8 | 3.9 | 4.7 | 5.7 | 7.2 | 9.2 | 11.7 | 12.5 | 13.8 | 15.5 | 16.5 |
| 82.5° | 1.8 | 2.0 | 2.3 | 2.9 | 3.8 | 4.8 | 6.5 | 7.2 | 8.1 | 9.2 | 9.9 |
| 85° | 0.5 | 0.5 | 0.6 | 0.9 | 1.2 | 1.8 | 2.4 | 2.9 | 3.6 | 4.4 | 4.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.5 | 0.6 | 0.8 | 0.9 | 1.2 |
| 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° | 279.3 | 279.3 | 279.3 | 279.3 | 279.3 | 279.3 | 279.3 | 279.3 | 279.3 | 279.3 | 279.3 |
| 2.5° | 284.6 | 276.2 | 265.4 | 256.2 | 247.8 | 241.3 | 235.8 | 233.1 | 230.5 | 228.7 | 229.3 |
| 5° | 292.4 | 278.0 | 257.8 | 243.9 | 235.3 | 231.0 | 228.0 | 226.5 | 226.2 | 225.0 | 224.5 |
| 7.5° | 303.8 | 283.2 | 256.3 | 242.2 | 236.5 | 234.3 | 232.6 | 231.7 | 232.2 | 231.0 | 230.5 |
| 10° | 317.9 | 291.9 | 260.1 | 247.6 | 242.7 | 241.0 | 239.2 | 238.0 | 237.4 | 235.6 | 235.3 |
| 12.5° | 335.5 | 302.7 | 266.9 | 254.5 | 249.6 | 246.7 | 244.3 | 242.2 | 240.9 | 238.6 | 238.0 |
| 15° | 354.4 | 314.8 | 274.8 | 261.3 | 255.4 | 251.2 | 247.3 | 244.2 | 241.8 | 238.8 | 238.3 |
| 17.5° | 375.0 | 327.4 | 281.4 | 266.0 | 258.4 | 252.9 | 247.2 | 242.5 | 239.2 | 235.3 | 234.9 |
| 20° | 396.5 | 340.1 | 286.4 | 268.2 | 258.6 | 251.1 | 243.4 | 237.3 | 233.1 | 229.2 | 228.9 |
| 22.5° | 418.7 | 351.9 | 289.4 | 267.6 | 256.2 | 246.9 | 237.7 | 230.8 | 225.9 | 221.2 | 220.9 |
| 25° | 441.1 | 363.1 | 290.1 | 265.2 | 251.4 | 240.6 | 231.4 | 223.3 | 217.7 | 212.5 | 211.9 |
| 27.5° | 463.7 | 372.6 | 288.3 | 260.4 | 244.9 | 233.2 | 224.1 | 216.1 | 210.4 | 205.1 | 204.2 |
| 30° | 487.9 | 380.7 | 284.4 | 254.1 | 237.4 | 225.4 | 216.4 | 210.4 | 205.0 | 199.7 | 198.8 |
| 32.5° | 513.7 | 387.7 | 278.9 | 246.4 | 228.7 | 217.6 | 211.0 | 205.6 | 200.2 | 195.5 | 194.6 |
| 35° | 544.5 | 392.4 | 270.6 | 236.5 | 220.6 | 211.9 | 207.4 | 201.1 | 194.5 | 189.4 | 188.9 |
| 37.5° | 576.4 | 396.0 | 260.7 | 227.1 | 213.5 | 208.6 | 204.8 | 196.3 | 188.0 | 181.9 | 181.1 |
| 40° | 607.1 | 399.0 | 248.4 | 218.2 | 207.1 | 206.2 | 201.1 | 190.4 | 176.2 | 169.2 | 168.6 |
| 42.5° | 635.8 | 399.9 | 235.5 | 208.7 | 201.2 | 200.8 | 195.1 | 178.6 | 167.6 | 163.2 | 162.6 |
| 45° | 655.5 | 399.2 | 222.1 | 199.9 | 195.4 | 193.0 | 187.0 | 170.0 | 163.2 | 159.3 | 158.6 |
| 47.5° | 670.1 | 395.3 | 207.1 | 190.6 | 188.8 | 185.5 | 172.5 | 164.6 | 158.3 | 154.4 | 153.6 |
| 50° | 667.5 | 379.0 | 191.9 | 181.6 | 180.8 | 178.0 | 162.0 | 157.8 | 152.3 | 148.1 | 147.5 |
| 52.5° | 654.3 | 348.2 | 176.5 | 171.6 | 173.1 | 167.6 | 154.5 | 149.7 | 144.9 | 140.1 | 139.1 |
| 55° | 657.6 | 326.0 | 164.7 | 162.0 | 164.7 | 152.1 | 146.1 | 141.0 | 136.5 | 131.9 | 130.9 |
| 57.5° | 672.0 | 304.1 | 152.3 | 151.7 | 154.5 | 140.3 | 135.3 | 128.8 | 122.4 | 118.6 | 118.6 |
| 60° | 564.3 | 221.7 | 130.3 | 131.9 | 138.3 | 130.6 | 126.3 | 119.7 | 112.6 | 109.3 | 109.3 |
| 62.5° | 333.7 | 139.1 | 108.1 | 106.5 | 110.5 | 115.3 | 117.7 | 112.3 | 103.9 | 99.6 | 99.7 |
| 65° | 147.0 | 101.2 | 95.4 | 94.0 | 92.8 | 96.1 | 102.7 | 103.2 | 94.3 | 89.2 | 89.4 |
| 67.5° | 90.6 | 91.6 | 89.2 | 88.2 | 87.1 | 86.5 | 85.9 | 86.2 | 83.8 | 79.1 | 79.0 |
| 70° | 81.7 | 84.5 | 82.9 | 82.0 | 80.6 | 79.6 | 76.0 | 70.1 | 66.1 | 64.9 | 66.2 |
| 72.5° | 70.3 | 74.2 | 73.3 | 72.8 | 71.2 | 68.6 | 63.8 | 58.1 | 53.3 | 50.3 | 50.9 |
| 75° | 53.0 | 56.2 | 56.6 | 56.8 | 55.0 | 52.6 | 47.6 | 42.8 | 38.6 | 35.4 | 36.2 |
| 77.5° | 30.5 | 32.3 | 32.7 | 33.2 | 31.8 | 30.9 | 27.6 | 24.2 | 21.9 | 18.6 | 19.5 |
| 80° | 17.0 | 17.7 | 17.7 | 17.9 | 17.1 | 16.1 | 13.8 | 11.9 | 10.8 | 9.3 | 9.5 |
| 82.5° | 10.2 | 10.5 | 10.7 | 10.8 | 10.4 | 9.3 | 7.7 | 6.3 | 5.7 | 5.0 | 4.8 |
| 85° | 5.0 | 5.3 | 5.3 | 5.4 | 4.7 | 4.1 | 3.2 | 2.4 | 2.1 | 1.5 | 1.7 |
| 87.5° | 1.2 | 1.4 | 1.4 | 1.2 | 1.1 | 0.8 | 0.5 | 0.2 | 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)