

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: P629360

Luminaire Tested: GWS-SA1B-740-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-740-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2128.9 lumens
Efficiency: N/A
Efficacy: 85.2 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

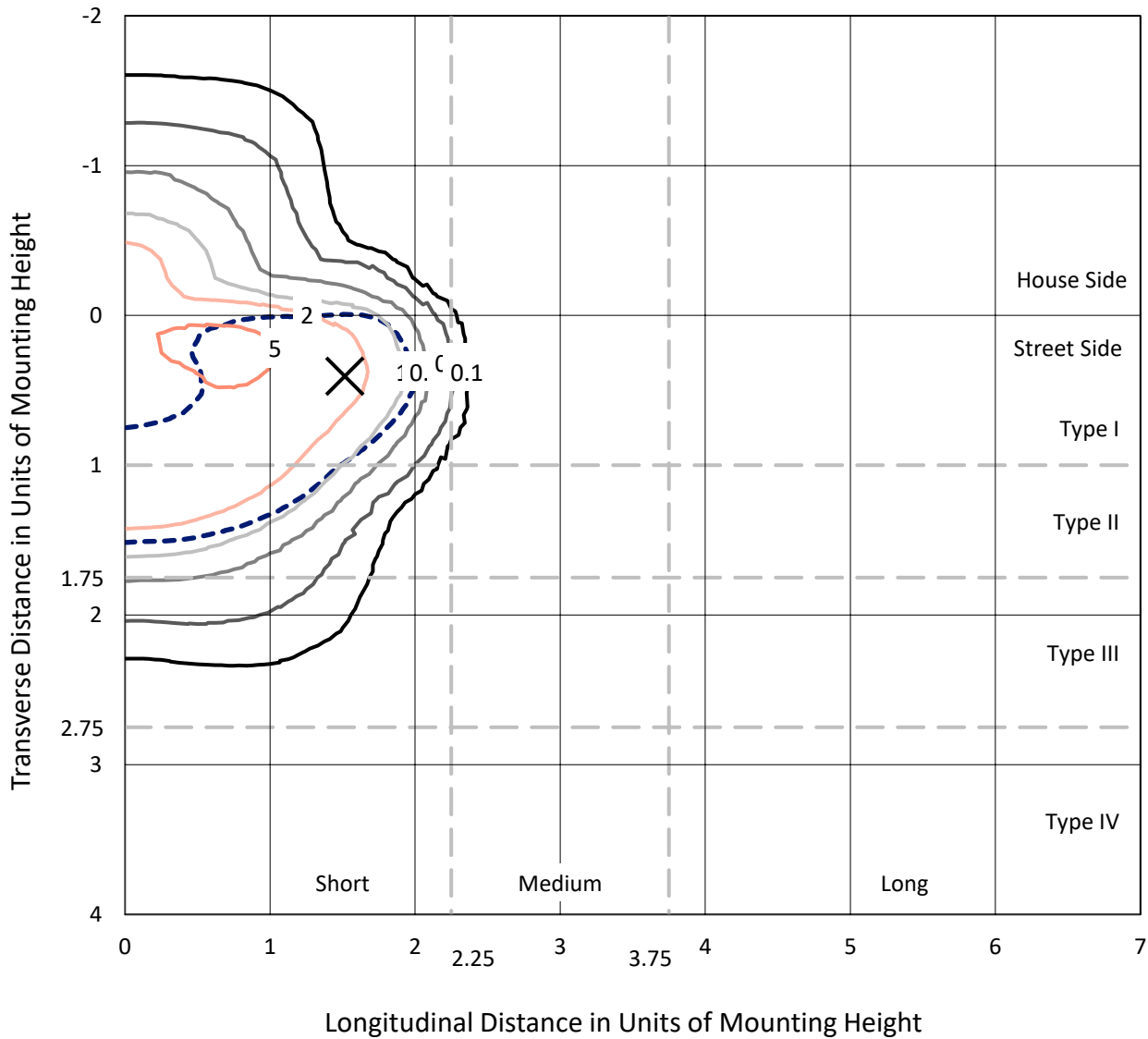
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

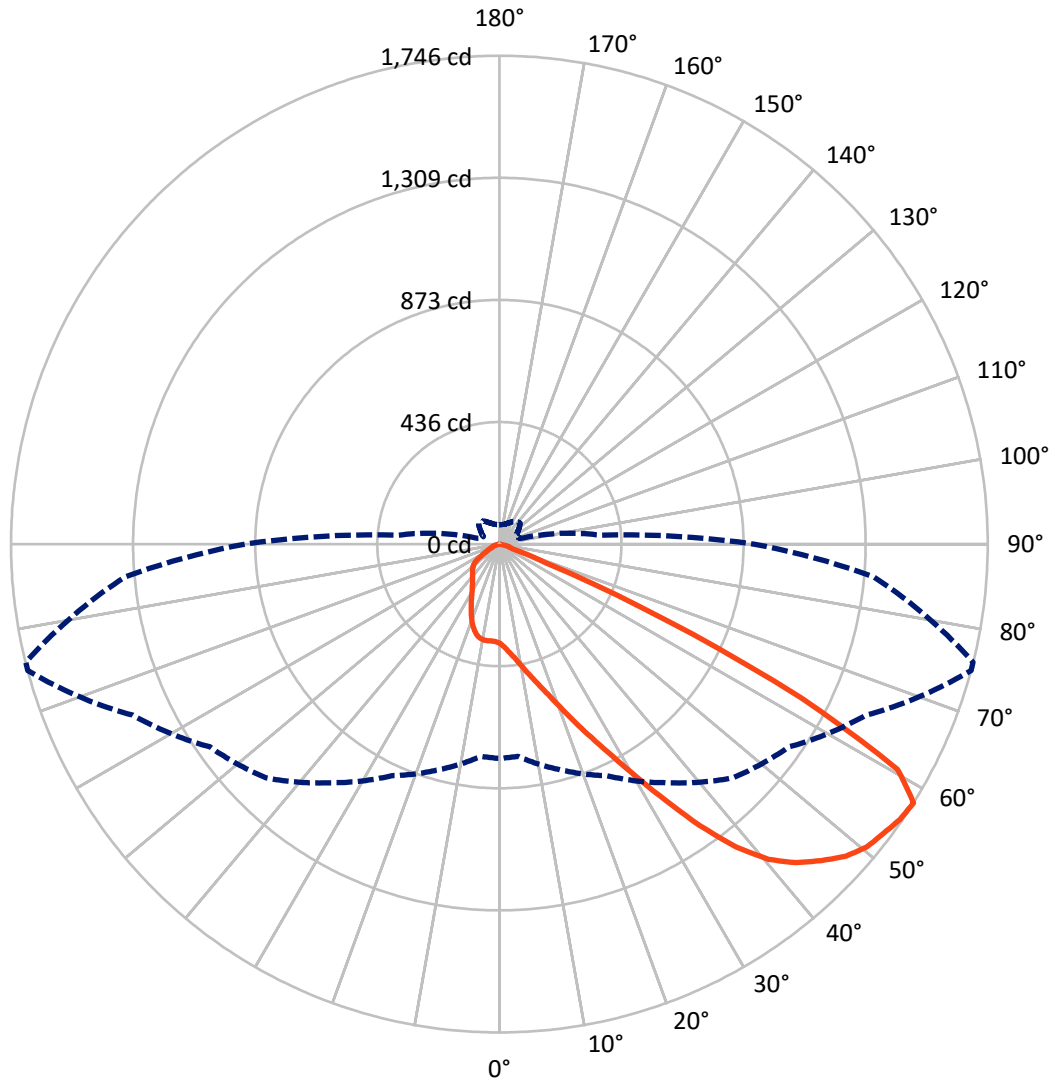
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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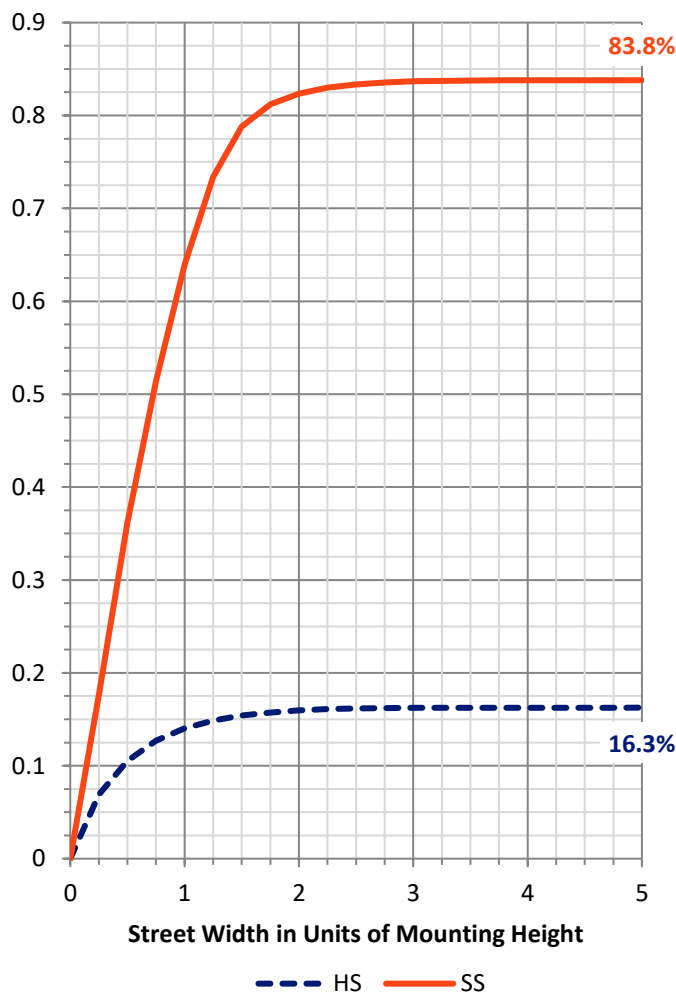
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 347.8 | 0.0 | 347.8 |
| | % Fixture | 16.3 | 0.0 | 16.3 |
| Street Side | Lumens | 1781.2 | 0.0 | 1781.2 |
| | % Fixture | 83.7 | 0.0 | 83.7 |
| Total | Lumens | 2128.9 | 0.0 | 2128.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 36.1 | 1.7 |
| 10°-20° | 117.4 | 5.5 |
| 20°-30° | 214.9 | 10.1 |
| 30°-40° | 356.6 | 16.8 |
| 40°-50° | 544.6 | 25.6 |
| 50°-60° | 612.0 | 28.7 |
| 60°-70° | 225.7 | 10.6 |
| 70°-80° | 21.6 | 1.0 |
| 80°-90° | 0.0 | 0.0 |
| 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° | 2128.9 | 100.0 |
| 0°-180° | 2128.9 | 100.0 |

Coefficient of Utilization



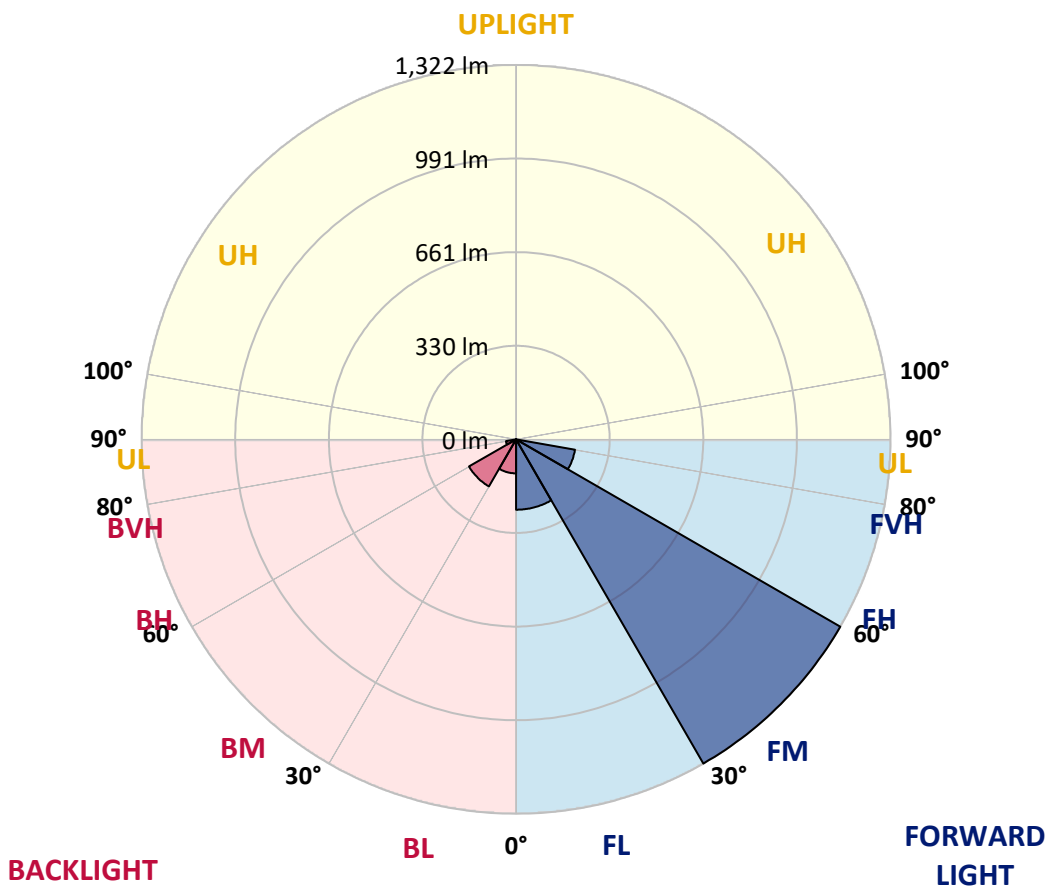
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 248.4 | 11.7 | | | |
| FM (30°-60°) | 1321.5 | 62.1 | | | |
| FH (60°-80°) | 211.2 | 9.9 | | | G0/660 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 120.0 | 5.6 | B1/500 | | |
| BM (30°-60°) | 191.6 | 9.0 | B0/220 | | |
| BH (60°-80°) | 36.1 | 1.7 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.0 | 0.0 | | | 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° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 355.1 | 355.1 | 355.1 | 355.1 | 355.1 | 355.1 | 355.1 | 355.1 | 355.1 | 355.1 | 355.1 |
| 2.5° | 396.7 | 400.8 | 399.5 | 396.9 | 395.4 | 390.0 | 386.7 | 376.9 | 370.0 | 369.2 | 362.8 |
| 5° | 446.8 | 446.0 | 445.0 | 441.9 | 439.3 | 430.9 | 420.8 | 404.4 | 389.8 | 388.0 | 374.3 |
| 7.5° | 474.3 | 474.8 | 475.3 | 474.8 | 473.0 | 466.6 | 455.5 | 436.3 | 413.9 | 412.4 | 390.8 |
| 10° | 485.6 | 486.6 | 489.2 | 494.1 | 498.4 | 497.9 | 491.5 | 471.7 | 444.2 | 441.7 | 412.6 |
| 12.5° | 491.0 | 492.3 | 496.4 | 505.6 | 517.4 | 526.7 | 527.7 | 510.0 | 479.7 | 475.6 | 438.6 |
| 15° | 498.4 | 499.7 | 504.9 | 516.9 | 534.1 | 552.4 | 564.2 | 552.9 | 519.0 | 514.6 | 467.1 |
| 17.5° | 501.8 | 503.6 | 511.0 | 527.0 | 549.3 | 577.3 | 604.0 | 603.0 | 565.5 | 562.2 | 500.2 |
| 20° | 508.2 | 509.5 | 516.2 | 533.4 | 560.4 | 600.7 | 645.7 | 661.8 | 622.3 | 617.4 | 540.3 |
| 22.5° | 528.5 | 529.0 | 532.1 | 542.9 | 568.1 | 617.6 | 688.0 | 730.4 | 689.3 | 682.9 | 585.3 |
| 25° | 561.6 | 561.4 | 562.7 | 564.5 | 583.0 | 634.9 | 728.9 | 807.8 | 766.2 | 759.2 | 636.1 |
| 27.5° | 603.8 | 603.8 | 606.9 | 601.7 | 609.2 | 656.2 | 769.2 | 896.7 | 855.6 | 845.8 | 691.9 |
| 30° | 653.4 | 653.1 | 660.3 | 652.1 | 654.4 | 689.8 | 812.7 | 993.5 | 963.5 | 951.4 | 756.1 |
| 32.5° | 720.7 | 719.1 | 727.4 | 716.1 | 708.3 | 740.7 | 865.6 | 1094.8 | 1092.7 | 1074.2 | 836.8 |
| 35° | 805.7 | 803.1 | 805.7 | 794.7 | 780.8 | 811.9 | 935.0 | 1195.7 | 1236.1 | 1216.5 | 932.9 |
| 37.5° | 890.2 | 898.5 | 901.3 | 882.3 | 871.0 | 902.1 | 1018.5 | 1286.2 | 1373.0 | 1352.7 | 1032.8 |
| 40° | 989.9 | 987.4 | 997.1 | 975.8 | 968.6 | 1003.0 | 1100.2 | 1353.5 | 1481.4 | 1462.2 | 1121.7 |
| 42.5° | 1063.4 | 1068.0 | 1080.1 | 1068.3 | 1062.6 | 1095.0 | 1168.8 | 1392.8 | 1556.7 | 1537.7 | 1185.2 |
| 45° | 1151.5 | 1154.9 | 1159.5 | 1149.7 | 1143.8 | 1175.7 | 1218.3 | 1410.0 | 1614.0 | 1593.5 | 1227.8 |
| 47.5° | 1246.9 | 1249.4 | 1249.4 | 1229.4 | 1210.4 | 1223.5 | 1251.5 | 1419.8 | 1666.7 | 1646.9 | 1259.4 |
| 50° | 1315.2 | 1316.5 | 1327.8 | 1313.7 | 1272.3 | 1252.0 | 1266.6 | 1429.3 | 1701.6 | 1683.1 | 1269.7 |
| 52.5° | 1254.6 | 1253.0 | 1290.3 | 1319.6 | 1330.6 | 1290.3 | 1292.8 | 1443.1 | 1718.6 | 1702.6 | 1277.9 |
| 55° | 1056.5 | 1053.9 | 1106.3 | 1177.5 | 1274.9 | 1326.5 | 1324.5 | 1451.4 | 1737.3 | 1727.6 | 1307.8 |
| 57.5° | 765.9 | 761.5 | 834.5 | 913.6 | 1041.3 | 1181.3 | 1263.6 | 1446.7 | 1745.6 | 1744.8 | 1342.4 |
| 60° | 460.4 | 456.8 | 525.7 | 608.9 | 707.6 | 848.4 | 984.8 | 1295.9 | 1635.6 | 1637.1 | 1252.3 |
| 62.5° | 283.4 | 286.7 | 348.9 | 391.3 | 428.0 | 470.4 | 549.3 | 871.7 | 1211.7 | 1221.7 | 880.0 |
| 65° | 190.6 | 193.2 | 250.8 | 304.2 | 304.2 | 248.7 | 213.5 | 416.7 | 646.4 | 629.5 | 416.2 |
| 67.5° | 127.9 | 130.8 | 176.3 | 238.7 | 247.7 | 173.4 | 86.6 | 124.4 | 180.1 | 174.7 | 103.0 |
| 70° | 75.3 | 78.4 | 117.4 | 163.7 | 180.4 | 120.8 | 57.8 | 52.7 | 51.1 | 49.6 | 40.1 |
| 72.5° | 33.7 | 34.9 | 59.9 | 83.2 | 76.0 | 50.9 | 40.9 | 42.1 | 39.8 | 39.1 | 32.6 |
| 75° | 10.3 | 10.8 | 15.4 | 18.0 | 18.2 | 18.2 | 24.7 | 33.1 | 31.3 | 31.6 | 25.2 |
| 77.5° | 2.6 | 2.6 | 4.1 | 3.9 | 2.1 | 1.8 | 4.6 | 7.5 | 7.7 | 6.9 | 5.1 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 355.1 | 355.1 | 355.1 | 355.1 | 355.1 | 355.1 | 355.1 | 355.1 | 355.1 | 355.1 | 355.1 |
| 2.5° | 360.0 | 353.3 | 348.9 | 342.7 | 338.4 | 333.7 | 329.6 | 326.3 | 324.5 | 324.0 | 324.2 |
| 5° | 368.2 | 357.6 | 347.4 | 335.5 | 327.3 | 319.6 | 313.4 | 308.6 | 306.3 | 305.5 | 305.5 |
| 7.5° | 380.8 | 366.1 | 347.9 | 329.4 | 315.5 | 303.4 | 296.2 | 290.8 | 288.8 | 288.3 | 286.7 |
| 10° | 397.2 | 377.2 | 347.1 | 318.3 | 298.8 | 286.2 | 281.1 | 279.5 | 280.3 | 280.6 | 280.3 |
| 12.5° | 417.0 | 388.7 | 342.2 | 302.1 | 281.1 | 273.4 | 273.9 | 278.0 | 282.6 | 284.9 | 285.4 |
| 15° | 438.1 | 399.3 | 331.2 | 282.9 | 265.9 | 265.7 | 273.1 | 282.6 | 291.6 | 295.5 | 296.5 |
| 17.5° | 461.7 | 407.7 | 314.2 | 262.3 | 252.8 | 260.3 | 273.6 | 288.3 | 300.3 | 306.8 | 308.1 |
| 20° | 487.6 | 414.7 | 292.6 | 243.1 | 241.3 | 254.6 | 273.1 | 291.1 | 306.0 | 313.2 | 314.5 |
| 22.5° | 514.6 | 419.6 | 267.7 | 225.3 | 230.7 | 248.2 | 268.2 | 285.7 | 299.8 | 308.1 | 309.1 |
| 25° | 545.5 | 420.1 | 242.3 | 210.4 | 221.0 | 239.5 | 256.4 | 270.8 | 282.6 | 289.8 | 290.6 |
| 27.5° | 572.4 | 413.9 | 219.7 | 198.3 | 212.0 | 228.7 | 240.0 | 247.9 | 256.2 | 260.3 | 260.5 |
| 30° | 603.5 | 403.1 | 198.3 | 188.6 | 202.7 | 215.3 | 221.0 | 222.8 | 223.5 | 224.3 | 223.3 |
| 32.5° | 640.5 | 390.0 | 182.4 | 179.1 | 192.2 | 200.7 | 202.2 | 198.6 | 194.2 | 188.1 | 186.5 |
| 35° | 686.0 | 378.2 | 169.3 | 169.8 | 180.6 | 185.8 | 184.5 | 176.8 | 168.3 | 160.8 | 159.6 |
| 37.5° | 735.3 | 368.2 | 159.3 | 160.8 | 168.0 | 171.6 | 167.8 | 159.3 | 155.4 | 149.0 | 149.3 |
| 40° | 779.0 | 360.0 | 150.3 | 151.8 | 155.2 | 158.5 | 152.4 | 146.7 | 153.9 | 153.4 | 153.9 |
| 42.5° | 810.1 | 353.0 | 142.6 | 141.8 | 144.1 | 146.4 | 141.8 | 139.0 | 151.1 | 147.7 | 149.5 |
| 45° | 828.3 | 346.6 | 136.2 | 131.5 | 135.1 | 139.3 | 136.2 | 132.6 | 136.7 | 121.3 | 120.0 |
| 47.5° | 840.7 | 343.0 | 130.5 | 121.5 | 127.9 | 135.1 | 128.7 | 120.0 | 114.1 | 100.7 | 99.7 |
| 50° | 841.9 | 341.2 | 123.8 | 111.2 | 119.5 | 127.2 | 119.7 | 107.7 | 99.2 | 93.3 | 92.5 |
| 52.5° | 848.6 | 344.8 | 114.6 | 98.1 | 107.1 | 119.5 | 114.3 | 102.3 | 90.7 | 85.6 | 84.5 |
| 55° | 878.4 | 360.0 | 99.2 | 80.2 | 93.3 | 113.6 | 110.0 | 91.2 | 80.2 | 77.1 | 76.3 |
| 57.5° | 909.3 | 363.0 | 78.1 | 63.5 | 81.2 | 105.1 | 100.5 | 84.0 | 73.2 | 69.6 | 68.9 |
| 60° | 831.4 | 299.1 | 58.6 | 52.4 | 71.7 | 97.1 | 93.0 | 79.6 | 67.1 | 62.7 | 61.9 |
| 62.5° | 546.2 | 161.6 | 46.5 | 44.4 | 60.4 | 82.2 | 84.8 | 71.9 | 59.9 | 55.2 | 55.0 |
| 65° | 251.8 | 75.0 | 35.7 | 35.2 | 47.3 | 65.5 | 73.0 | 62.9 | 50.6 | 46.5 | 46.5 |
| 67.5° | 68.6 | 37.3 | 28.0 | 25.9 | 32.1 | 43.9 | 53.2 | 47.0 | 36.0 | 31.1 | 30.8 |
| 70° | 34.2 | 30.1 | 25.2 | 22.4 | 23.1 | 27.2 | 31.3 | 26.2 | 18.2 | 14.9 | 14.6 |
| 72.5° | 28.0 | 24.7 | 21.3 | 19.0 | 17.5 | 16.7 | 16.2 | 13.1 | 8.5 | 6.4 | 6.2 |
| 75° | 20.8 | 17.7 | 15.2 | 12.3 | 10.5 | 9.8 | 8.7 | 6.4 | 3.6 | 2.1 | 1.8 |
| 77.5° | 4.6 | 4.4 | 4.1 | 3.1 | 2.8 | 2.3 | 1.8 | 1.3 | 0.5 | 0.0 | 0.0 |
| 80° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 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)