

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: P630073

Luminaire Tested: GWS-SA1C-830-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630073
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-SA1C-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2268.1 lumens
Efficiency: N/A
Efficacy: 66.5 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

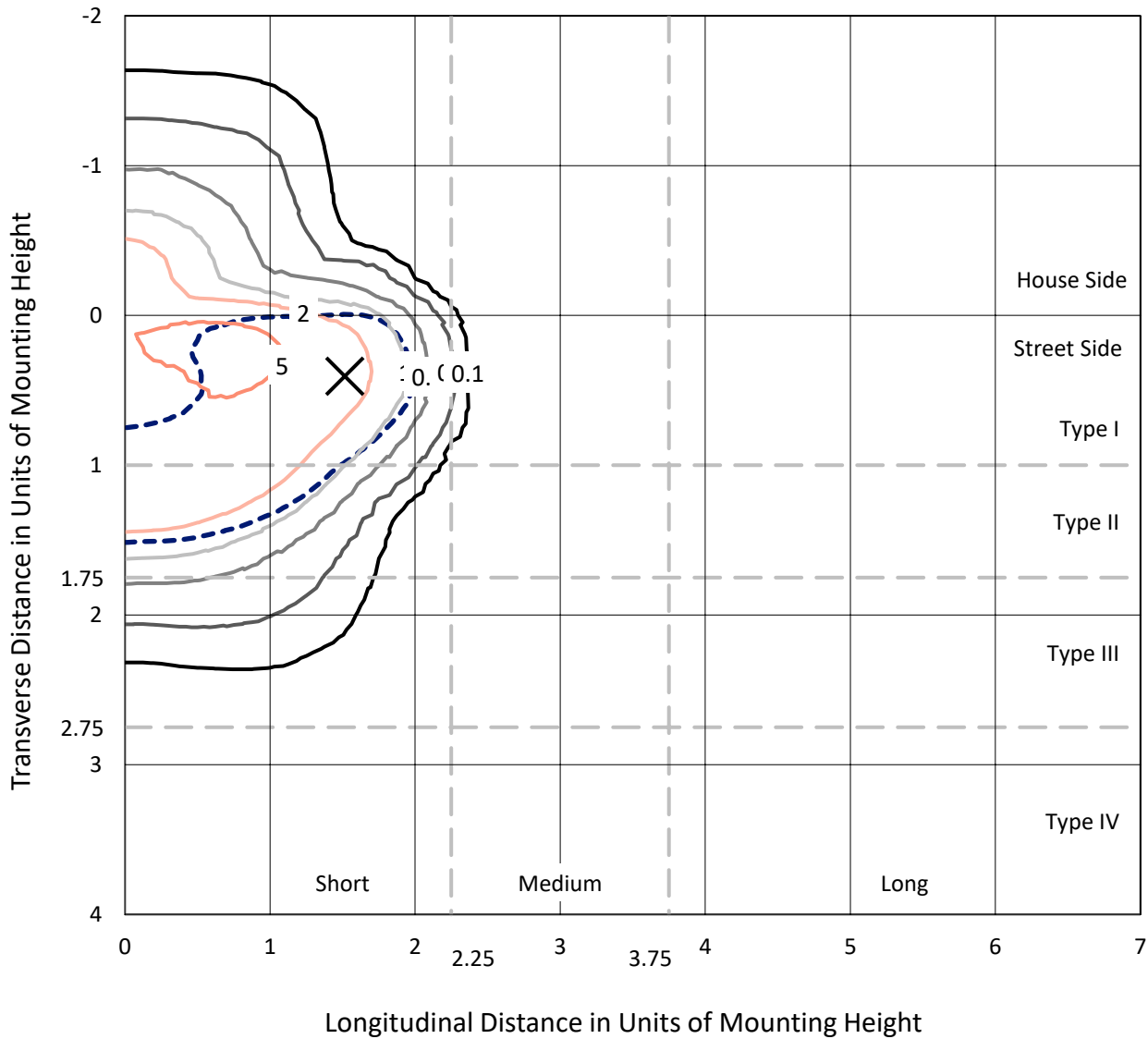
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

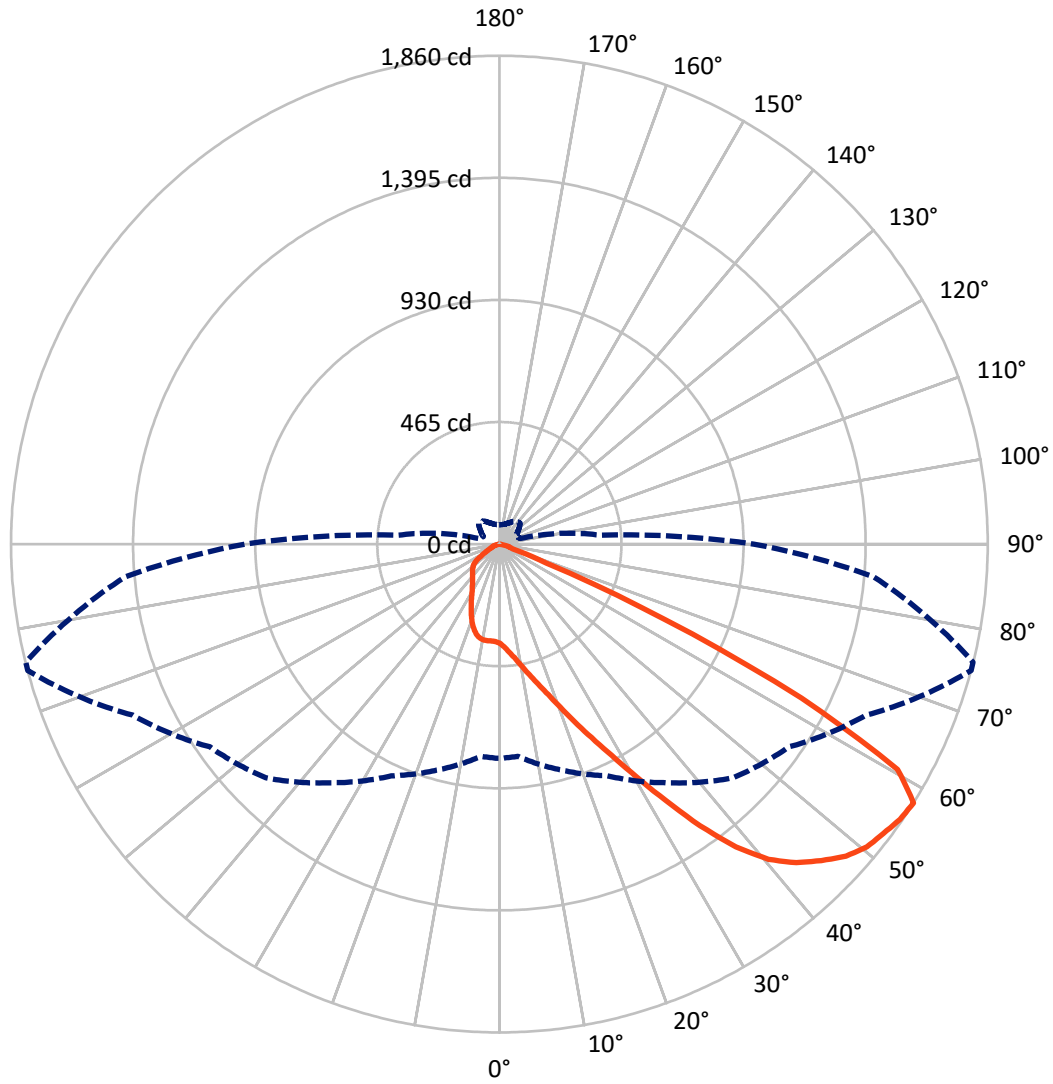
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 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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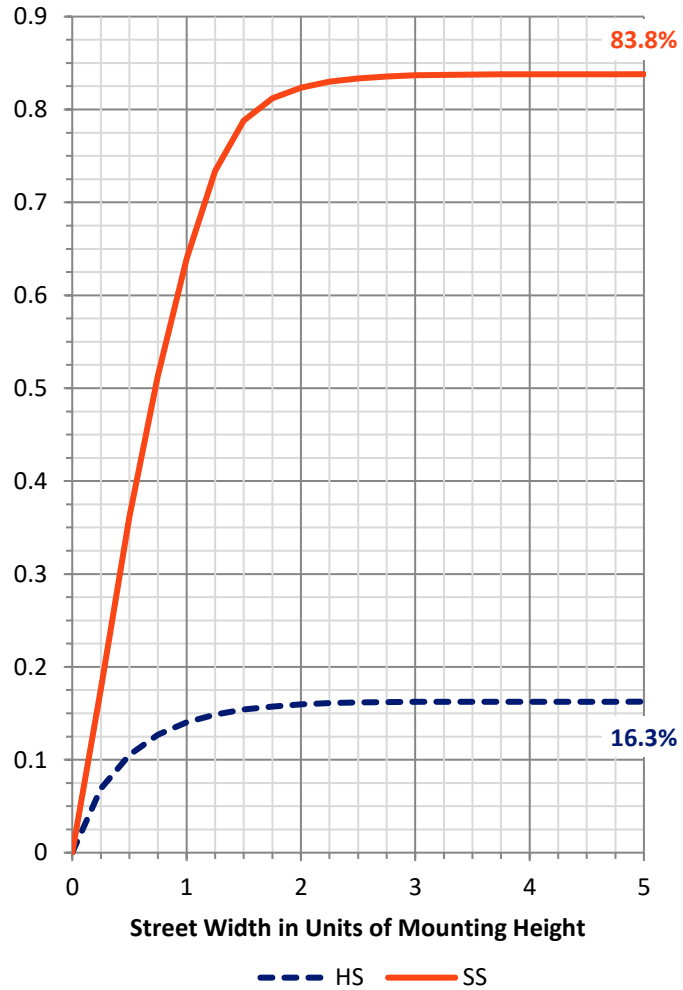
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 370.5 | 0.0 | 370.5 |
| | % Fixture | 16.3 | 0.0 | 16.3 |
| Street Side | Lumens | 1897.6 | 0.0 | 1897.6 |
| | % Fixture | 83.7 | 0.0 | 83.7 |
| Total | Lumens | 2268.1 | 0.0 | 2268.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 38.5 | 1.7 |
| 10°-20° | 125.0 | 5.5 |
| 20°-30° | 229.0 | 10.1 |
| 30°-40° | 379.9 | 16.8 |
| 40°-50° | 580.2 | 25.6 |
| 50°-60° | 652.0 | 28.7 |
| 60°-70° | 240.5 | 10.6 |
| 70°-80° | 23.0 | 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° | 2268.1 | 100.0 |
| 0°-180° | 2268.1 | 100.0 |

Coefficient of Utilization



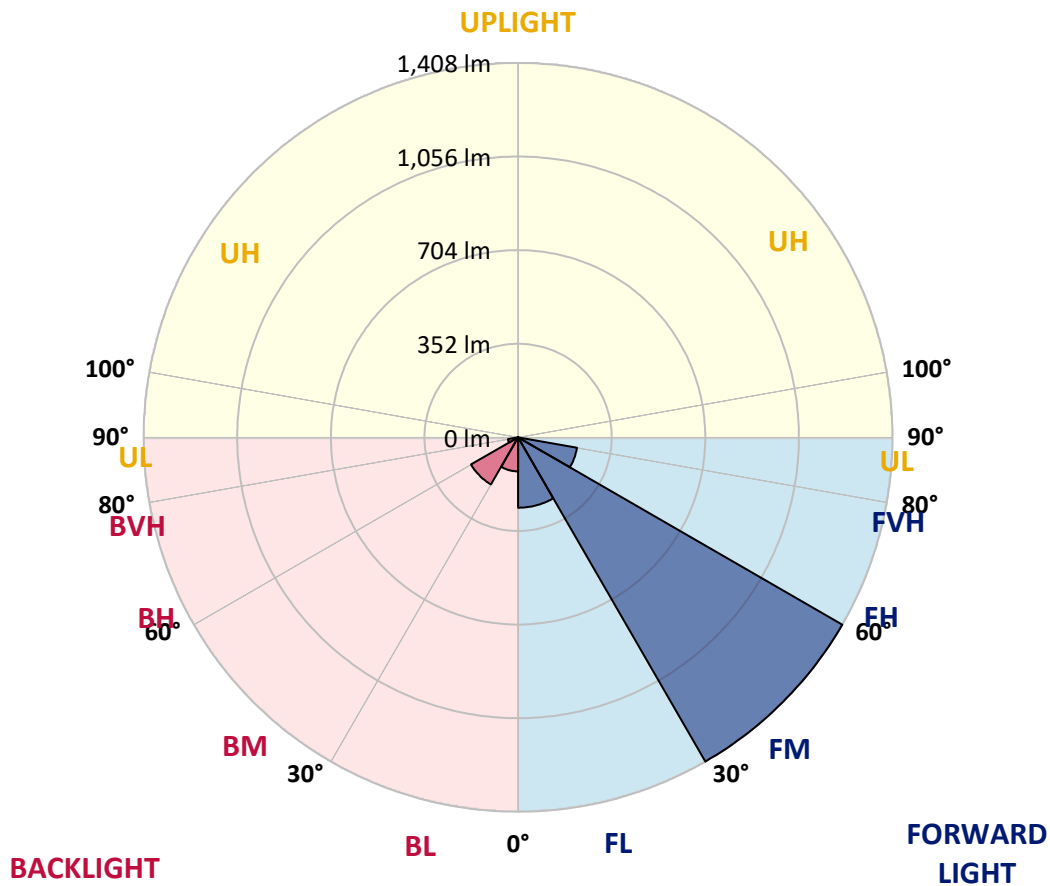
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 264.7 | 11.7 | | | |
| FM (30°-60°) | 1407.9 | 62.1 | | | |
| FH (60°-80°) | 225.0 | 9.9 | | | G0/660 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 127.8 | 5.6 | B1/500 | | |
| BM (30°-60°) | 204.2 | 9.0 | B0/220 | | |
| BH (60°-80°) | 38.5 | 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° | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 |
| 2.5° | 422.6 | 427.0 | 425.6 | 422.9 | 421.3 | 415.5 | 412.0 | 401.6 | 394.2 | 393.3 | 386.5 |
| 5° | 476.0 | 475.2 | 474.1 | 470.8 | 468.1 | 459.0 | 448.4 | 430.8 | 415.2 | 413.3 | 398.8 |
| 7.5° | 505.3 | 505.8 | 506.4 | 505.8 | 503.9 | 497.1 | 485.3 | 464.8 | 441.0 | 439.3 | 416.3 |
| 10° | 517.3 | 518.4 | 521.2 | 526.4 | 531.0 | 530.5 | 523.6 | 502.6 | 473.3 | 470.5 | 439.6 |
| 12.5° | 523.1 | 524.5 | 528.8 | 538.7 | 551.3 | 561.1 | 562.2 | 543.3 | 511.0 | 506.7 | 467.2 |
| 15° | 531.0 | 532.4 | 537.9 | 550.7 | 569.1 | 588.5 | 601.1 | 589.1 | 552.9 | 548.3 | 497.6 |
| 17.5° | 534.6 | 536.5 | 544.4 | 561.4 | 585.2 | 615.1 | 643.5 | 642.4 | 602.5 | 598.9 | 532.9 |
| 20° | 541.4 | 542.8 | 549.9 | 568.3 | 597.0 | 640.0 | 687.9 | 705.1 | 663.0 | 657.8 | 575.6 |
| 22.5° | 563.1 | 563.6 | 566.9 | 578.4 | 605.2 | 658.0 | 733.0 | 778.2 | 734.4 | 727.6 | 623.5 |
| 25° | 598.4 | 598.1 | 599.5 | 601.4 | 621.1 | 676.4 | 776.6 | 860.6 | 816.2 | 808.9 | 677.7 |
| 27.5° | 643.3 | 643.3 | 646.5 | 641.1 | 649.0 | 699.1 | 819.5 | 955.3 | 911.5 | 901.1 | 737.1 |
| 30° | 696.1 | 695.8 | 703.5 | 694.7 | 697.2 | 735.0 | 865.8 | 1058.5 | 1026.5 | 1013.6 | 805.6 |
| 32.5° | 767.8 | 766.2 | 774.9 | 762.9 | 754.7 | 789.1 | 922.2 | 1166.3 | 1164.2 | 1144.4 | 891.5 |
| 35° | 858.4 | 855.7 | 858.4 | 846.6 | 831.8 | 865.0 | 996.1 | 1273.9 | 1316.9 | 1296.1 | 993.9 |
| 37.5° | 948.5 | 957.2 | 960.2 | 940.0 | 927.9 | 961.0 | 1085.0 | 1370.3 | 1462.8 | 1441.2 | 1100.4 |
| 40° | 1054.7 | 1051.9 | 1062.3 | 1039.6 | 1031.9 | 1068.6 | 1172.1 | 1442.0 | 1578.3 | 1557.8 | 1195.1 |
| 42.5° | 1132.9 | 1137.9 | 1150.7 | 1138.1 | 1132.1 | 1166.6 | 1245.2 | 1483.9 | 1658.5 | 1638.2 | 1262.7 |
| 45° | 1226.8 | 1230.4 | 1235.3 | 1224.9 | 1218.6 | 1252.6 | 1298.0 | 1502.2 | 1719.5 | 1697.6 | 1308.1 |
| 47.5° | 1328.4 | 1331.1 | 1331.1 | 1309.8 | 1289.5 | 1303.5 | 1333.3 | 1512.6 | 1775.7 | 1754.6 | 1341.8 |
| 50° | 1401.2 | 1402.6 | 1414.6 | 1399.6 | 1355.5 | 1333.9 | 1349.5 | 1522.7 | 1812.9 | 1793.2 | 1352.7 |
| 52.5° | 1336.6 | 1335.0 | 1374.6 | 1405.8 | 1417.6 | 1374.6 | 1377.4 | 1537.5 | 1830.9 | 1814.0 | 1361.5 |
| 55° | 1125.6 | 1122.8 | 1178.7 | 1254.5 | 1358.2 | 1413.2 | 1411.1 | 1546.3 | 1850.9 | 1840.5 | 1393.3 |
| 57.5° | 816.0 | 811.3 | 889.1 | 973.4 | 1109.4 | 1258.6 | 1346.2 | 1541.3 | 1859.7 | 1858.9 | 1430.2 |
| 60° | 490.5 | 486.7 | 560.0 | 648.7 | 753.8 | 903.8 | 1049.2 | 1380.7 | 1742.5 | 1744.2 | 1334.1 |
| 62.5° | 301.9 | 305.5 | 371.7 | 416.9 | 456.0 | 501.2 | 585.2 | 928.7 | 1290.9 | 1301.6 | 937.5 |
| 65° | 203.1 | 205.8 | 267.2 | 324.1 | 324.1 | 265.0 | 227.5 | 444.0 | 688.7 | 670.6 | 443.4 |
| 67.5° | 136.3 | 139.3 | 187.8 | 254.3 | 263.9 | 184.8 | 92.2 | 132.5 | 191.9 | 186.1 | 109.8 |
| 70° | 80.2 | 83.5 | 125.1 | 174.4 | 192.2 | 128.7 | 61.6 | 56.1 | 54.5 | 52.8 | 42.7 |
| 72.5° | 35.9 | 37.2 | 63.8 | 88.7 | 81.0 | 54.2 | 43.5 | 44.9 | 42.4 | 41.6 | 34.8 |
| 75° | 10.9 | 11.5 | 16.4 | 19.2 | 19.4 | 19.4 | 26.3 | 35.3 | 33.4 | 33.7 | 26.8 |
| 77.5° | 2.7 | 2.7 | 4.4 | 4.1 | 2.2 | 1.9 | 4.9 | 7.9 | 8.2 | 7.4 | 5.5 |
| 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° | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 |
| 2.5° | 383.5 | 376.4 | 371.7 | 365.1 | 360.5 | 355.6 | 351.2 | 347.6 | 345.7 | 345.2 | 345.4 |
| 5° | 392.2 | 381.0 | 370.1 | 357.5 | 348.7 | 340.5 | 333.9 | 328.7 | 326.3 | 325.5 | 325.5 |
| 7.5° | 405.7 | 390.1 | 370.6 | 350.9 | 336.1 | 323.3 | 315.6 | 309.9 | 307.7 | 307.1 | 305.5 |
| 10° | 423.2 | 401.8 | 369.8 | 339.1 | 318.3 | 304.9 | 299.5 | 297.8 | 298.6 | 298.9 | 298.6 |
| 12.5° | 444.3 | 414.1 | 364.6 | 321.9 | 299.5 | 291.2 | 291.8 | 296.2 | 301.1 | 303.6 | 304.1 |
| 15° | 466.7 | 425.4 | 352.8 | 301.4 | 283.3 | 283.0 | 291.0 | 301.1 | 310.7 | 314.8 | 315.9 |
| 17.5° | 491.9 | 434.4 | 334.8 | 279.5 | 269.3 | 277.3 | 291.5 | 307.1 | 320.0 | 326.8 | 328.2 |
| 20° | 519.5 | 441.8 | 311.8 | 258.9 | 257.0 | 271.3 | 291.0 | 310.1 | 326.0 | 333.7 | 335.0 |
| 22.5° | 548.3 | 447.0 | 285.2 | 240.1 | 245.8 | 264.4 | 285.8 | 304.4 | 319.4 | 328.2 | 329.3 |
| 25° | 581.1 | 447.5 | 258.1 | 224.2 | 235.4 | 255.1 | 273.2 | 288.5 | 301.1 | 308.8 | 309.6 |
| 27.5° | 609.9 | 441.0 | 234.0 | 211.3 | 225.8 | 243.6 | 255.7 | 264.1 | 272.9 | 277.3 | 277.6 |
| 30° | 643.0 | 429.5 | 211.3 | 200.9 | 216.0 | 229.4 | 235.4 | 237.3 | 238.1 | 239.0 | 237.9 |
| 32.5° | 682.4 | 415.5 | 194.3 | 190.8 | 204.7 | 213.8 | 215.4 | 211.6 | 206.9 | 200.4 | 198.7 |
| 35° | 730.8 | 402.9 | 180.4 | 180.9 | 192.4 | 197.9 | 196.5 | 188.3 | 179.3 | 171.4 | 170.0 |
| 37.5° | 783.4 | 392.2 | 169.7 | 171.4 | 179.0 | 182.8 | 178.7 | 169.7 | 165.6 | 158.8 | 159.0 |
| 40° | 829.9 | 383.5 | 160.1 | 161.8 | 165.3 | 168.9 | 162.3 | 156.3 | 164.0 | 163.4 | 164.0 |
| 42.5° | 863.1 | 376.1 | 151.9 | 151.1 | 153.6 | 156.0 | 151.1 | 148.1 | 161.0 | 157.4 | 159.3 |
| 45° | 882.5 | 369.3 | 145.1 | 140.1 | 144.0 | 148.4 | 145.1 | 141.2 | 145.6 | 129.2 | 127.8 |
| 47.5° | 895.6 | 365.4 | 139.1 | 129.5 | 136.3 | 144.0 | 137.1 | 127.8 | 121.5 | 107.3 | 106.2 |
| 50° | 897.0 | 363.5 | 131.9 | 118.5 | 127.3 | 135.5 | 127.6 | 114.7 | 105.7 | 99.4 | 98.5 |
| 52.5° | 904.1 | 367.3 | 122.1 | 104.6 | 114.1 | 127.3 | 121.8 | 108.9 | 96.6 | 91.2 | 90.1 |
| 55° | 935.9 | 383.5 | 105.7 | 85.4 | 99.4 | 121.0 | 117.2 | 97.2 | 85.4 | 82.1 | 81.3 |
| 57.5° | 968.7 | 386.8 | 83.2 | 67.6 | 86.5 | 112.0 | 107.0 | 89.5 | 78.0 | 74.2 | 73.4 |
| 60° | 885.8 | 318.6 | 62.4 | 55.8 | 76.4 | 103.5 | 99.1 | 84.9 | 71.4 | 66.8 | 66.0 |
| 62.5° | 581.9 | 172.2 | 49.5 | 47.4 | 64.3 | 87.6 | 90.3 | 76.6 | 63.8 | 58.9 | 58.6 |
| 65° | 268.3 | 79.9 | 38.0 | 37.5 | 50.4 | 69.8 | 77.7 | 67.1 | 53.9 | 49.5 | 49.5 |
| 67.5° | 73.1 | 39.7 | 29.8 | 27.6 | 34.2 | 46.8 | 56.7 | 50.1 | 38.3 | 33.1 | 32.8 |
| 70° | 36.4 | 32.0 | 26.8 | 23.8 | 24.6 | 29.0 | 33.4 | 27.9 | 19.4 | 15.9 | 15.6 |
| 72.5° | 29.8 | 26.3 | 22.7 | 20.3 | 18.6 | 17.8 | 17.2 | 14.0 | 9.0 | 6.8 | 6.6 |
| 75° | 22.2 | 18.9 | 16.1 | 13.1 | 11.2 | 10.4 | 9.3 | 6.8 | 3.8 | 2.2 | 1.9 |
| 77.5° | 4.9 | 4.7 | 4.4 | 3.3 | 3.0 | 2.5 | 1.9 | 1.4 | 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)