

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: P630239

Luminaire Tested: GWS-SA1D-730-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1D-730-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (16) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4603.6 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

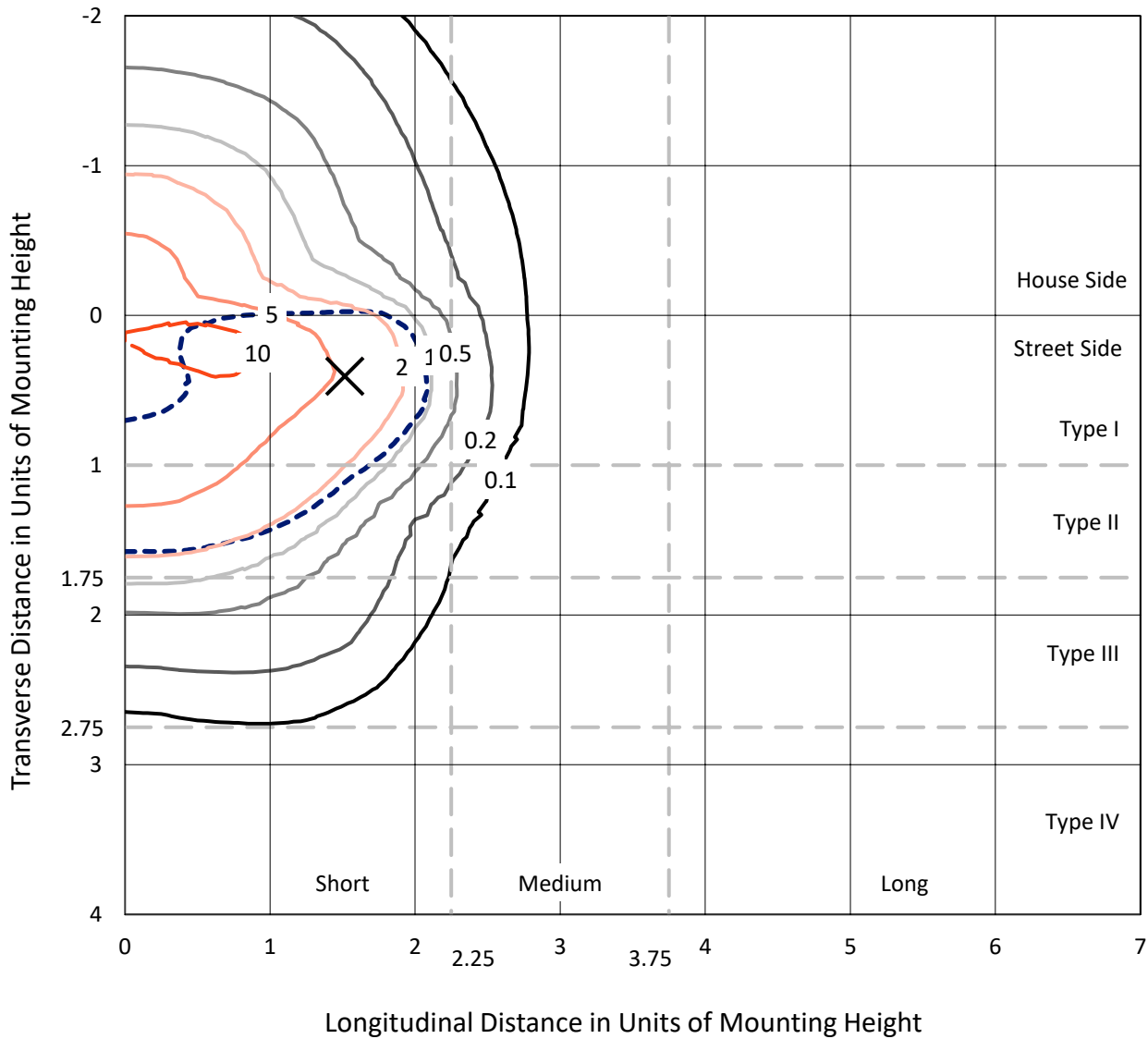
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

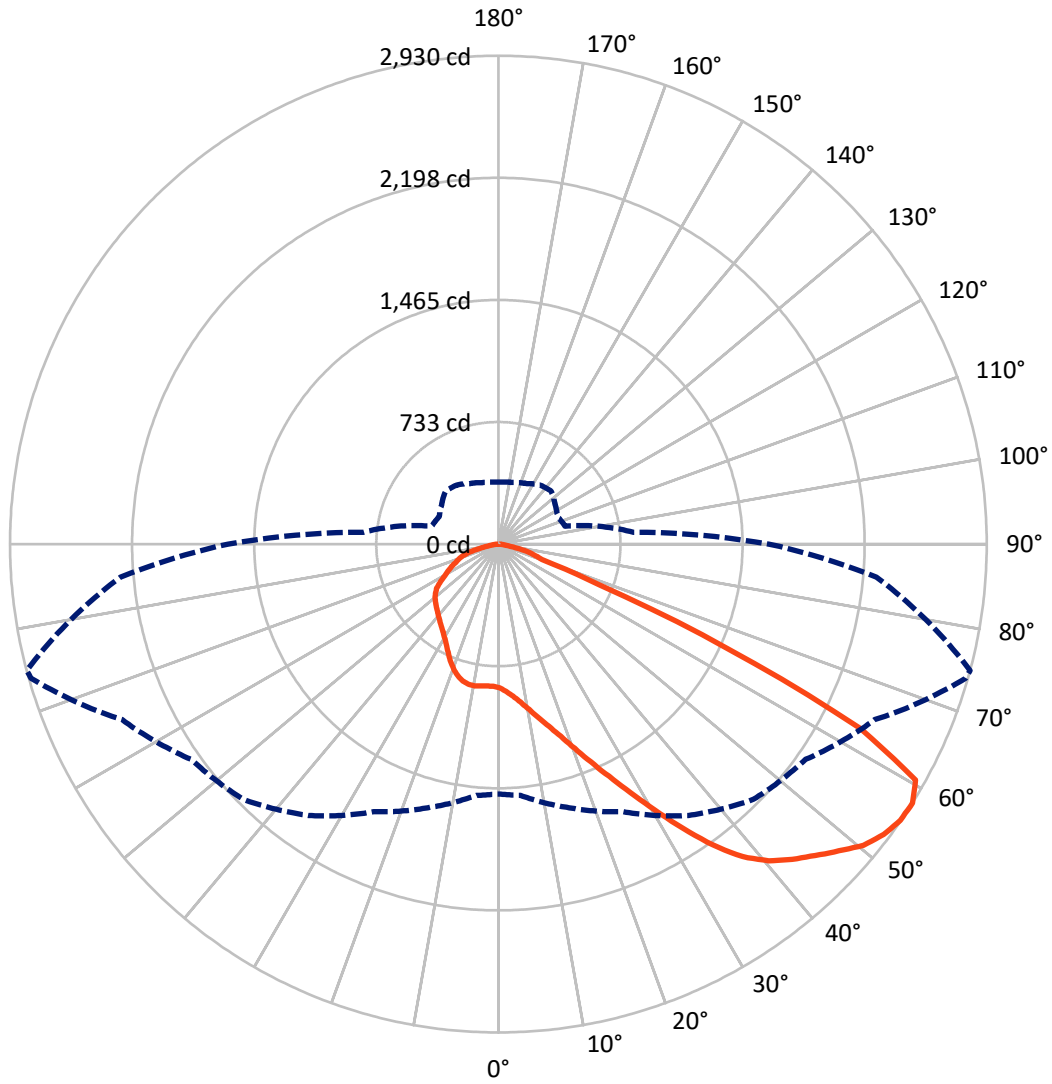
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 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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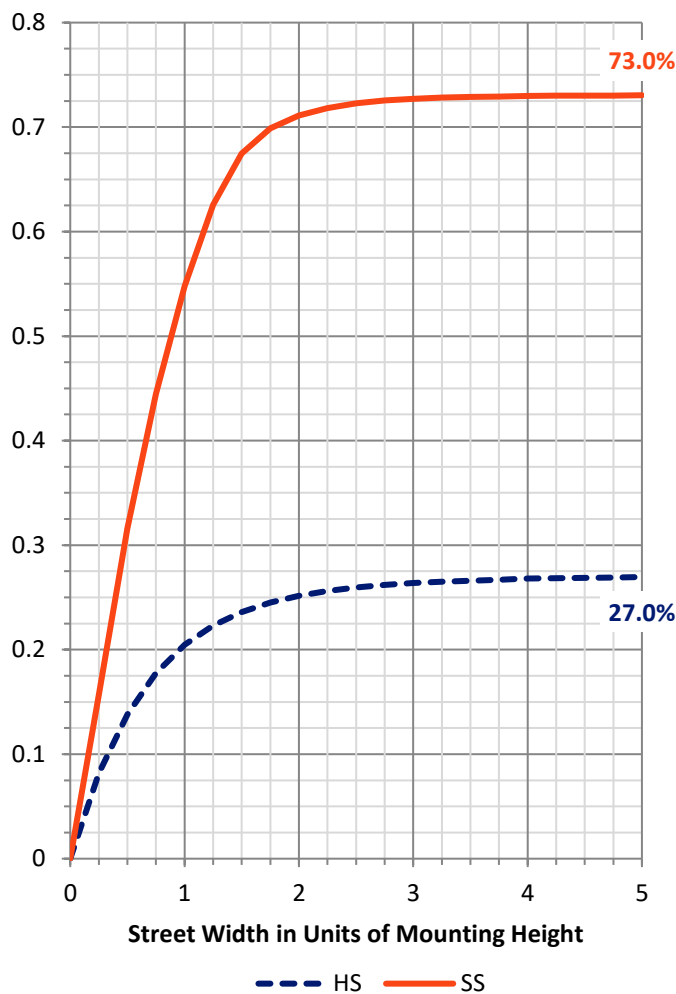
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1245.4 | 0.0 | 1245.4 |
| | % Fixture | 27.1 | 0.0 | 27.1 |
| Street Side | Lumens | 3358.2 | 0.0 | 3358.2 |
| | % Fixture | 72.9 | 0.0 | 72.9 |
| Total | Lumens | 4603.6 | 0.0 | 4603.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 86.3 | 1.9 |
| 10°-20° | 274.7 | 6.0 |
| 20°-30° | 487.1 | 10.6 |
| 30°-40° | 745.7 | 16.2 |
| 40°-50° | 1038.4 | 22.6 |
| 50°-60° | 1189.8 | 25.8 |
| 60°-70° | 611.3 | 13.3 |
| 70°-80° | 153.9 | 3.3 |
| 80°-90° | 16.5 | 0.4 |
| 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° | 4603.6 | 100.0 |
| 0°-180° | 4603.6 | 100.0 |

Coefficient of Utilization



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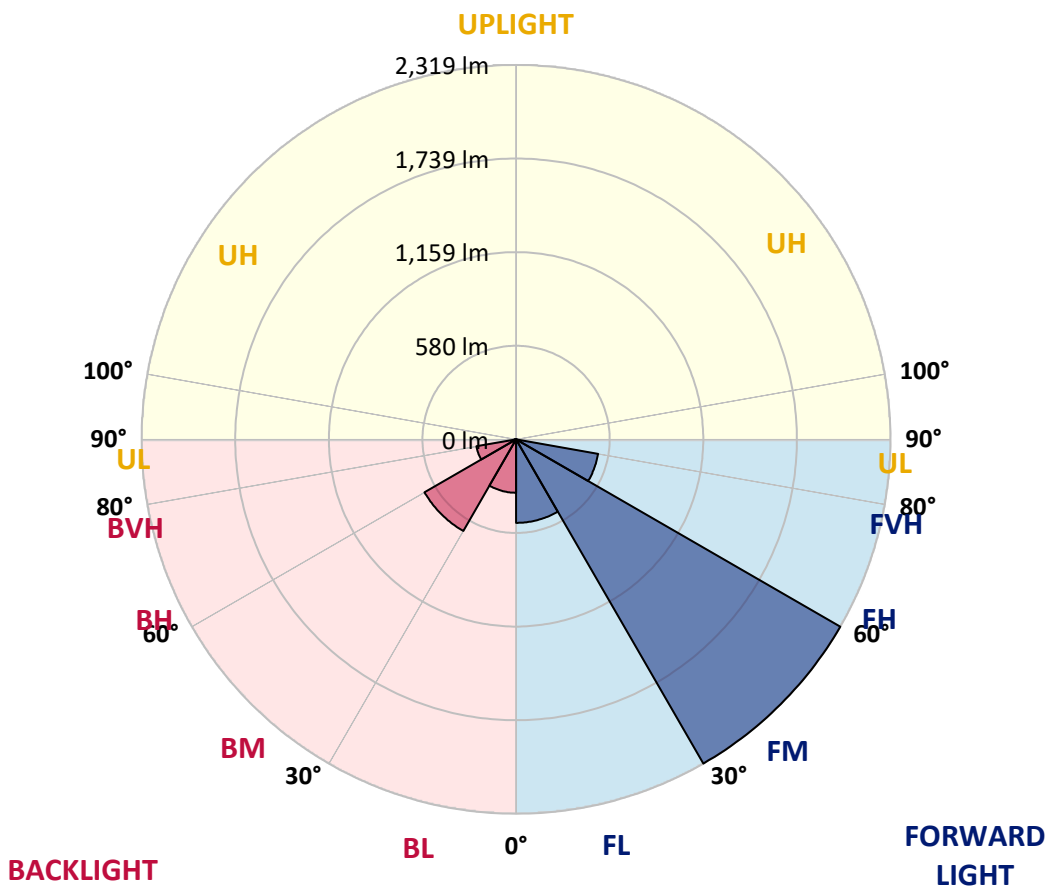
CATALOG NUMBER: GWS-SA1D-730-U-T2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 517.2 | 11.2 | | | |
| FM (30°-60°) | 2318.9 | 50.4 | | | |
| FH (60°-80°) | 516.0 | 11.2 | | | G0/660 |
| FVH (80°-90°) | 6.1 | 0.1 | | | G0/10 |
| BL (0°-30°) | 330.8 | 7.2 | B1/500 | | |
| BM (30°-60°) | 654.9 | 14.2 | B1/1000 | | |
| BH (60°-80°) | 249.2 | 5.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 10.4 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 74° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 |
| 2.5° | 926.3 | 928.6 | 926.3 | 930.2 | 922.3 | 918.7 | 910.0 | 897.0 | 886.7 | 885.1 | 873.6 |
| 5° | 998.3 | 1003.5 | 1000.3 | 998.7 | 988.0 | 980.1 | 967.0 | 940.9 | 919.5 | 916.4 | 893.8 |
| 7.5° | 1044.6 | 1048.2 | 1048.2 | 1049.4 | 1045.4 | 1036.3 | 1022.5 | 991.6 | 961.5 | 956.7 | 922.7 |
| 10° | 1060.1 | 1062.8 | 1068.0 | 1077.9 | 1085.8 | 1088.6 | 1079.5 | 1049.8 | 1013.0 | 1008.2 | 960.7 |
| 12.5° | 1063.6 | 1066.8 | 1074.7 | 1092.9 | 1114.7 | 1134.5 | 1136.1 | 1114.3 | 1073.1 | 1068.0 | 1004.6 |
| 15° | 1070.4 | 1073.5 | 1084.2 | 1106.8 | 1138.8 | 1176.8 | 1200.2 | 1185.2 | 1139.6 | 1134.1 | 1054.5 |
| 17.5° | 1069.6 | 1073.1 | 1089.0 | 1119.0 | 1162.2 | 1217.2 | 1262.3 | 1268.7 | 1221.6 | 1212.1 | 1111.1 |
| 20° | 1067.6 | 1070.8 | 1087.8 | 1124.6 | 1178.0 | 1253.6 | 1335.2 | 1368.0 | 1317.4 | 1308.7 | 1177.2 |
| 22.5° | 1083.4 | 1087.0 | 1100.0 | 1130.5 | 1186.3 | 1281.7 | 1402.5 | 1481.6 | 1431.0 | 1418.7 | 1253.2 |
| 25° | 1119.0 | 1124.2 | 1132.1 | 1153.1 | 1201.4 | 1306.7 | 1471.3 | 1610.3 | 1558.4 | 1543.8 | 1336.0 |
| 27.5° | 1174.1 | 1180.4 | 1191.5 | 1201.4 | 1235.0 | 1338.3 | 1539.8 | 1754.4 | 1702.5 | 1687.1 | 1423.4 |
| 30° | 1241.4 | 1249.7 | 1263.9 | 1270.7 | 1293.6 | 1385.1 | 1614.2 | 1902.8 | 1872.7 | 1851.4 | 1522.0 |
| 32.5° | 1334.4 | 1345.9 | 1359.3 | 1361.3 | 1375.2 | 1455.9 | 1687.9 | 2050.1 | 2049.7 | 2034.6 | 1634.0 |
| 35° | 1455.5 | 1467.8 | 1470.6 | 1473.3 | 1480.1 | 1553.3 | 1776.9 | 2184.3 | 2236.1 | 2218.7 | 1756.0 |
| 37.5° | 1587.7 | 1605.5 | 1609.9 | 1597.6 | 1607.1 | 1670.5 | 1877.1 | 2291.9 | 2398.4 | 2379.8 | 1873.9 |
| 40° | 1729.0 | 1736.2 | 1748.0 | 1728.6 | 1740.5 | 1804.6 | 1975.3 | 2360.8 | 2519.5 | 2499.7 | 1966.9 |
| 42.5° | 1830.4 | 1843.4 | 1861.2 | 1854.1 | 1860.9 | 1919.4 | 2044.1 | 2394.1 | 2605.8 | 2586.0 | 2033.8 |
| 45° | 1940.4 | 1944.4 | 1955.9 | 1954.3 | 1958.2 | 2012.9 | 2093.6 | 2408.7 | 2683.0 | 2665.2 | 2090.8 |
| 47.5° | 2036.2 | 2042.1 | 2049.7 | 2041.0 | 2032.3 | 2067.9 | 2134.0 | 2421.4 | 2772.1 | 2750.7 | 2150.6 |
| 50° | 2128.4 | 2133.6 | 2142.7 | 2117.4 | 2084.9 | 2094.0 | 2153.8 | 2438.8 | 2855.6 | 2840.6 | 2197.7 |
| 52.5° | 2145.5 | 2151.0 | 2193.8 | 2198.9 | 2157.3 | 2125.3 | 2188.6 | 2477.2 | 2904.7 | 2895.2 | 2214.7 |
| 55° | 1931.3 | 1941.2 | 2026.3 | 2124.1 | 2226.6 | 2216.3 | 2244.4 | 2497.4 | 2924.1 | 2926.5 | 2245.2 |
| 57.5° | 1499.1 | 1513.3 | 1637.6 | 1771.8 | 1987.5 | 2166.0 | 2251.5 | 2492.2 | 2917.4 | 2930.4 | 2276.5 |
| 60° | 983.3 | 991.6 | 1138.8 | 1289.3 | 1512.9 | 1759.9 | 2015.2 | 2399.6 | 2857.6 | 2876.2 | 2268.6 |
| 62.5° | 593.8 | 603.3 | 721.6 | 835.6 | 967.4 | 1132.5 | 1366.8 | 1928.5 | 2395.2 | 2436.8 | 1816.9 |
| 65° | 414.4 | 427.1 | 530.8 | 624.6 | 670.2 | 636.1 | 692.3 | 1077.1 | 1492.3 | 1509.7 | 1110.3 |
| 67.5° | 300.4 | 309.2 | 394.3 | 505.9 | 556.2 | 449.3 | 342.4 | 477.0 | 650.0 | 656.3 | 458.0 |
| 70° | 196.7 | 206.6 | 283.8 | 385.2 | 454.0 | 364.2 | 256.1 | 258.1 | 273.5 | 276.7 | 266.0 |
| 72.5° | 108.1 | 114.0 | 175.4 | 255.7 | 268.4 | 217.7 | 199.9 | 214.5 | 225.2 | 225.2 | 228.0 |
| 75° | 55.8 | 61.0 | 71.6 | 84.3 | 101.7 | 119.1 | 144.1 | 165.9 | 177.3 | 178.1 | 176.9 |
| 77.5° | 28.5 | 30.5 | 38.4 | 41.6 | 45.5 | 53.0 | 68.9 | 88.3 | 98.6 | 102.5 | 101.7 |
| 80° | 13.5 | 14.3 | 16.2 | 19.0 | 23.4 | 29.7 | 37.2 | 44.3 | 50.7 | 51.5 | 55.8 |
| 82.5° | 7.1 | 7.9 | 8.7 | 10.3 | 12.7 | 15.8 | 21.8 | 26.1 | 30.1 | 30.9 | 34.4 |
| 85° | 2.8 | 3.2 | 3.6 | 4.0 | 5.5 | 6.7 | 9.1 | 12.3 | 15.0 | 15.0 | 17.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.8 | 1.6 | 2.0 | 2.8 | 2.8 | 4.8 |
| 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° | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 |
| 2.5° | 870.9 | 859.4 | 854.2 | 845.9 | 839.2 | 831.7 | 825.7 | 821.4 | 818.6 | 817.0 | 815.4 |
| 5° | 885.1 | 867.7 | 853.8 | 837.2 | 825.7 | 814.6 | 805.5 | 799.2 | 796.0 | 793.7 | 792.1 |
| 7.5° | 907.3 | 883.9 | 857.8 | 832.1 | 811.9 | 794.1 | 782.6 | 775.9 | 771.5 | 769.9 | 768.7 |
| 10° | 937.7 | 905.3 | 862.1 | 821.4 | 791.3 | 771.9 | 764.0 | 760.8 | 761.2 | 760.4 | 760.0 |
| 12.5° | 972.2 | 927.9 | 861.0 | 802.4 | 769.1 | 757.6 | 758.0 | 763.2 | 769.1 | 770.7 | 771.1 |
| 15° | 1009.4 | 950.0 | 849.5 | 777.8 | 751.7 | 752.9 | 763.2 | 775.5 | 786.5 | 790.9 | 791.7 |
| 17.5° | 1049.8 | 968.6 | 828.5 | 750.9 | 737.5 | 750.1 | 769.1 | 789.3 | 805.5 | 812.7 | 814.6 |
| 20° | 1094.9 | 984.5 | 798.8 | 724.4 | 724.0 | 745.0 | 772.7 | 799.2 | 819.8 | 829.3 | 830.9 |
| 22.5° | 1142.8 | 994.4 | 762.4 | 699.8 | 710.1 | 738.2 | 769.9 | 797.6 | 819.4 | 828.9 | 830.9 |
| 25° | 1191.1 | 997.5 | 722.4 | 677.3 | 695.9 | 727.6 | 756.5 | 778.6 | 799.2 | 807.5 | 809.1 |
| 27.5° | 1236.2 | 988.4 | 684.4 | 657.9 | 682.8 | 711.7 | 731.1 | 743.0 | 757.2 | 763.6 | 764.8 |
| 30° | 1282.1 | 970.2 | 652.3 | 642.5 | 668.2 | 690.0 | 698.7 | 699.5 | 705.0 | 705.0 | 705.8 |
| 32.5° | 1328.4 | 943.3 | 624.2 | 627.4 | 650.0 | 664.2 | 665.4 | 656.3 | 649.6 | 638.5 | 638.1 |
| 35° | 1381.9 | 916.0 | 601.3 | 610.4 | 628.6 | 637.3 | 633.7 | 616.3 | 600.1 | 581.9 | 581.1 |
| 37.5° | 1431.4 | 887.9 | 581.9 | 593.0 | 604.5 | 610.8 | 602.5 | 581.5 | 568.0 | 549.4 | 546.7 |
| 40° | 1472.1 | 862.5 | 563.3 | 574.8 | 580.3 | 585.8 | 572.4 | 555.4 | 557.3 | 547.1 | 546.7 |
| 42.5° | 1495.9 | 838.0 | 545.9 | 554.6 | 558.1 | 562.1 | 550.2 | 537.6 | 548.2 | 540.3 | 540.7 |
| 45° | 1513.3 | 816.6 | 530.0 | 533.2 | 541.9 | 547.8 | 536.8 | 522.5 | 524.9 | 494.4 | 487.3 |
| 47.5° | 1533.1 | 804.7 | 515.0 | 511.8 | 527.3 | 537.6 | 520.5 | 499.9 | 485.7 | 455.6 | 452.8 |
| 50° | 1554.1 | 800.4 | 499.2 | 490.4 | 509.1 | 518.9 | 499.2 | 473.4 | 454.8 | 438.6 | 437.0 |
| 52.5° | 1561.2 | 800.0 | 479.4 | 464.7 | 483.3 | 497.2 | 480.6 | 454.4 | 432.3 | 416.4 | 415.6 |
| 55° | 1589.3 | 811.5 | 454.0 | 429.5 | 446.9 | 475.4 | 463.1 | 425.5 | 407.7 | 400.6 | 399.8 |
| 57.5° | 1622.2 | 813.5 | 414.1 | 391.1 | 415.2 | 448.9 | 433.4 | 401.0 | 381.6 | 372.9 | 372.1 |
| 60° | 1608.7 | 764.8 | 371.3 | 361.8 | 388.3 | 423.9 | 409.7 | 381.6 | 359.0 | 350.7 | 349.9 |
| 62.5° | 1225.9 | 539.9 | 340.0 | 336.5 | 359.4 | 387.9 | 385.2 | 355.9 | 334.5 | 328.5 | 327.8 |
| 65° | 737.5 | 379.2 | 309.9 | 309.5 | 325.8 | 353.1 | 356.7 | 332.9 | 310.3 | 302.0 | 302.0 |
| 67.5° | 364.6 | 290.2 | 275.9 | 273.9 | 284.2 | 303.6 | 318.7 | 299.3 | 280.3 | 272.3 | 271.2 |
| 70° | 257.7 | 255.7 | 251.0 | 245.4 | 247.4 | 255.3 | 261.7 | 245.4 | 225.2 | 217.3 | 215.7 |
| 72.5° | 222.9 | 223.3 | 220.1 | 215.7 | 214.2 | 208.6 | 203.1 | 191.2 | 178.9 | 170.6 | 171.4 |
| 75° | 173.0 | 173.8 | 175.8 | 174.2 | 169.8 | 163.9 | 157.9 | 142.9 | 133.0 | 125.1 | 123.5 |
| 77.5° | 100.9 | 104.9 | 111.2 | 109.6 | 110.4 | 102.1 | 99.8 | 85.1 | 76.0 | 70.5 | 69.3 |
| 80° | 57.0 | 59.4 | 62.1 | 64.1 | 61.8 | 58.2 | 53.0 | 45.1 | 42.4 | 38.4 | 37.6 |
| 82.5° | 34.4 | 36.8 | 38.0 | 39.6 | 38.8 | 34.0 | 30.1 | 24.9 | 22.6 | 20.6 | 20.2 |
| 85° | 17.4 | 19.0 | 20.2 | 21.0 | 18.6 | 15.4 | 13.9 | 11.1 | 9.5 | 8.3 | 8.3 |
| 87.5° | 4.4 | 4.8 | 5.5 | 4.8 | 4.4 | 2.0 | 1.6 | 0.4 | 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)