

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: P634506

Luminaire Tested: GWS-SA3B-830-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3B-830-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5355.3 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

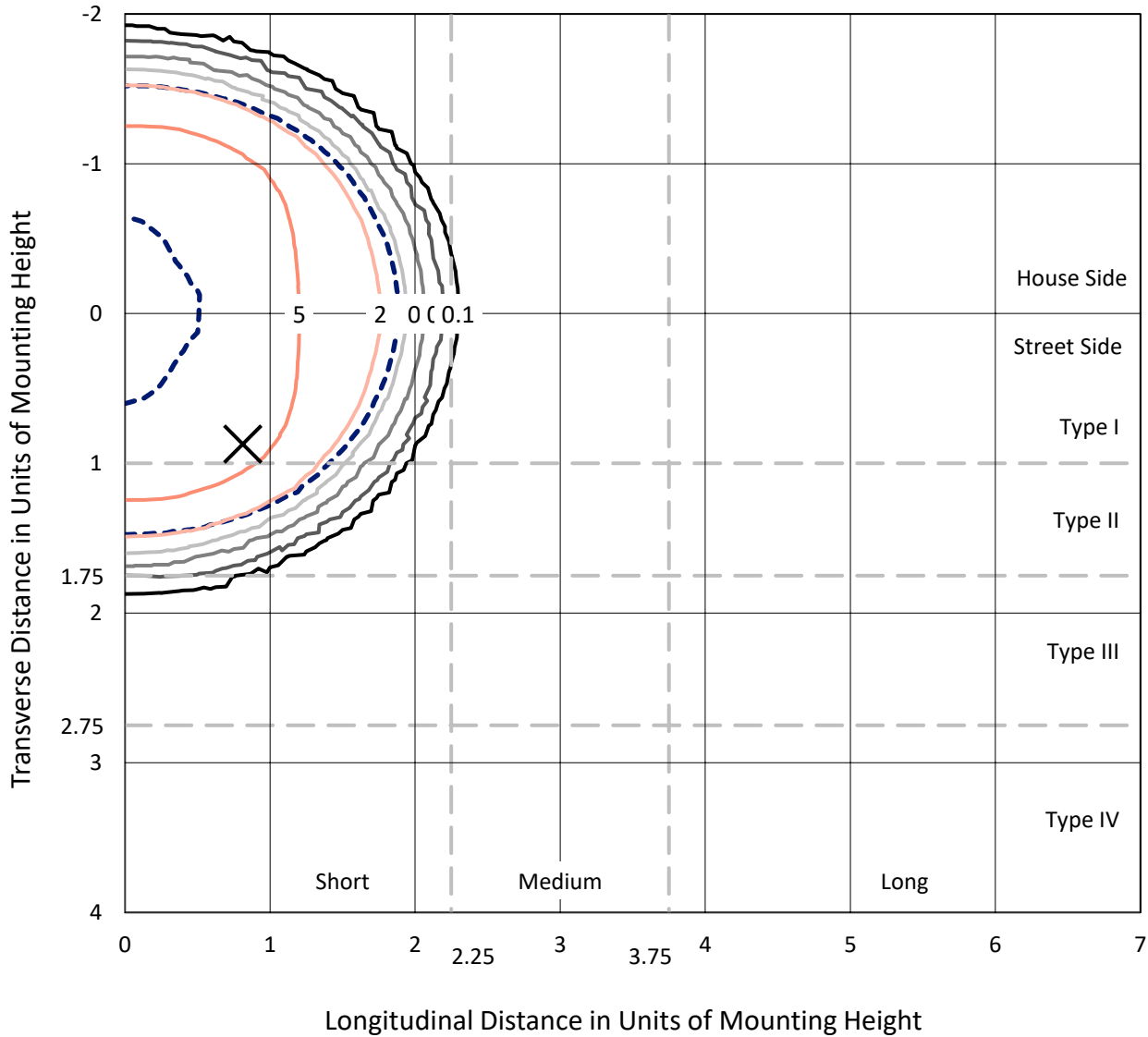
Input Watts (W): 68.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

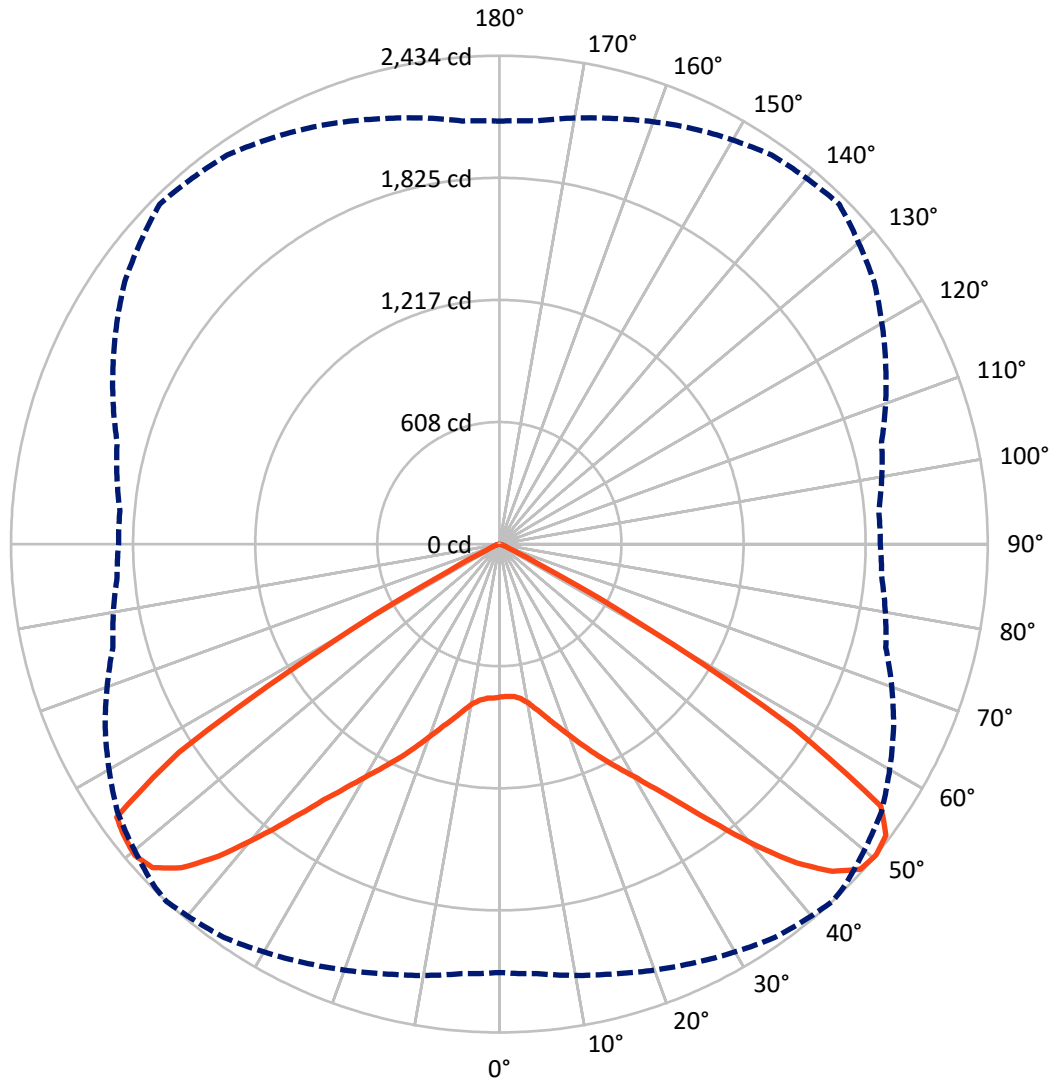
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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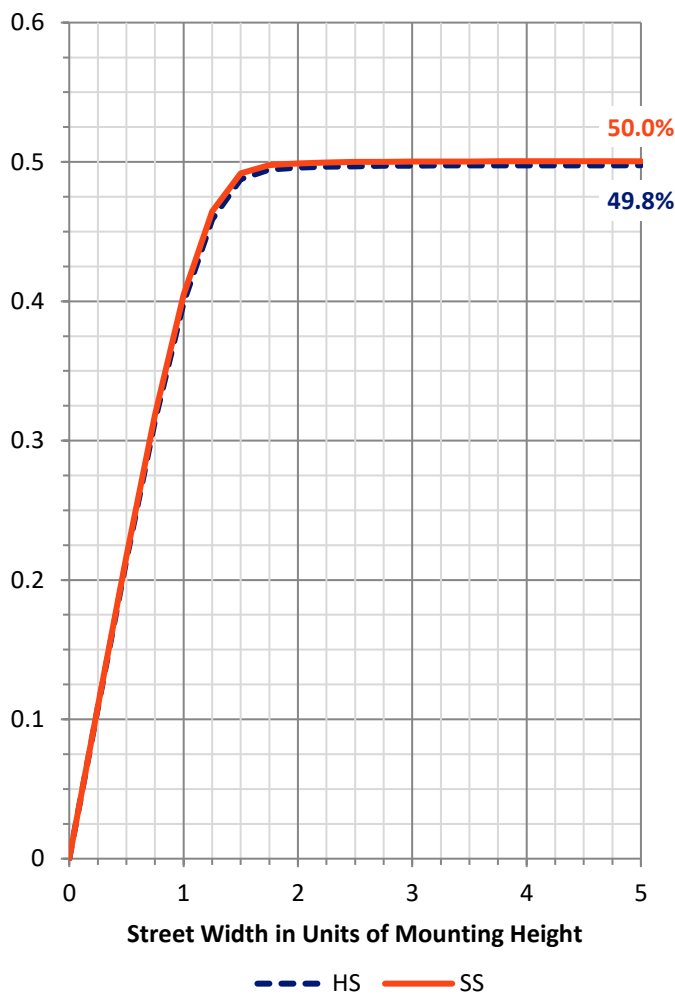
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2677.6 | 0.0 | 2677.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2677.7 | 0.0 | 2677.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5355.3 | 0.0 | 5355.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 75.0 | 1.4 |
| 10°-20° | 258.1 | 4.8 |
| 20°-30° | 522.2 | 9.8 |
| 30°-40° | 968.9 | 18.1 |
| 40°-50° | 1608.4 | 30.0 |
| 50°-60° | 1641.4 | 30.7 |
| 60°-70° | 269.2 | 5.0 |
| 70°-80° | 11.8 | 0.2 |
| 80°-90° | 0.2 | 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° | 5355.3 | 100.0 |
| 0°-180° | 5355.3 | 100.0 |

Coefficient of Utilization



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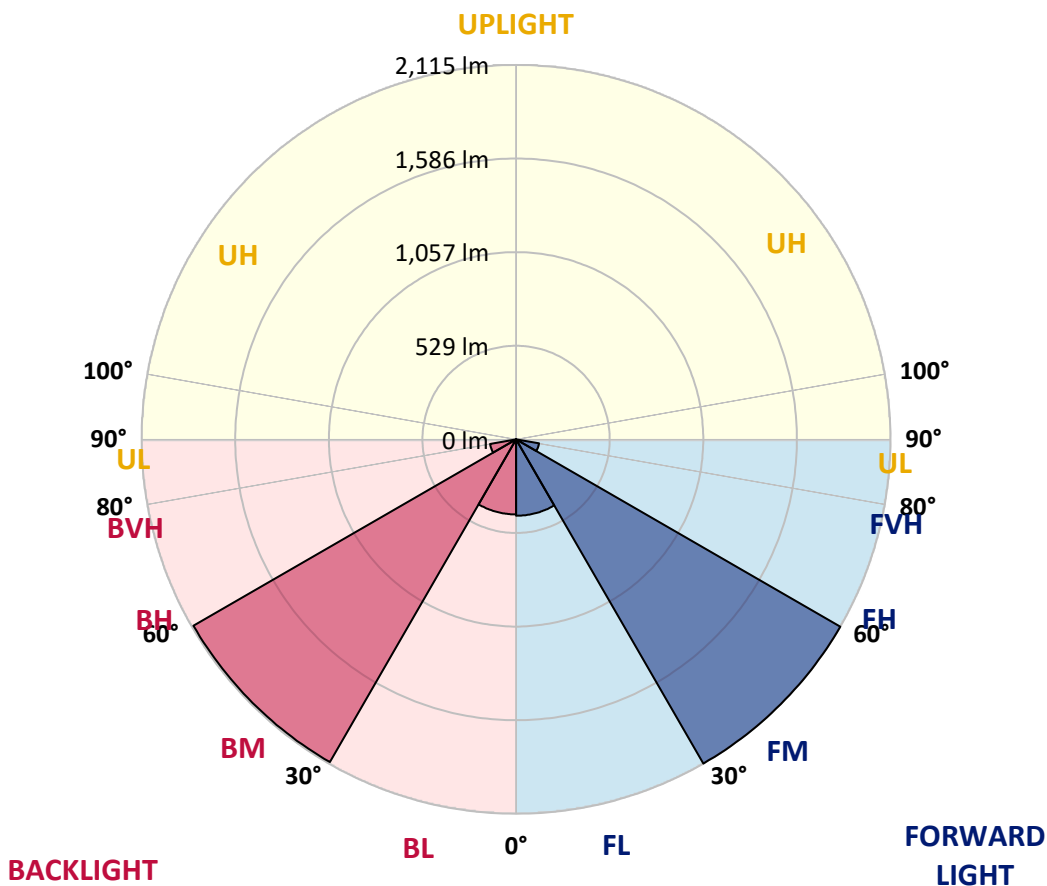
CATALOG NUMBER: GWS-SA3B-830-U-RW-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 431.4 | 8.1 | | | |
| FM (30°-60°) | 2114.5 | 39.5 | | | |
| FH (60°-80°) | 131.7 | 2.5 | | | G0/660 |
| FVH (80°-90°) | 0.1 | 0.0 | | | G0/10 |
| BL (0°-30°) | 423.9 | 7.9 | B1/500 | | |
| BM (30°-60°) | 2104.3 | 39.3 | B2/2500 | | |
| BH (60°-80°) | 149.3 | 2.8 | B1/500 | | G0/660 |
| BVH (80°-90°) | 0.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 43° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 |
| 2.5° | 747.5 | 749.3 | 751.6 | 754.0 | 757.0 | 759.9 | 761.7 | 767.0 | 765.9 | 770.6 | 770.6 |
| 5° | 739.2 | 741.0 | 743.9 | 749.3 | 755.8 | 762.3 | 767.0 | 777.7 | 783.6 | 793.1 | 796.7 |
| 7.5° | 743.3 | 745.7 | 749.3 | 757.6 | 767.6 | 777.7 | 783.0 | 800.2 | 812.1 | 829.8 | 839.9 |
| 10° | 757.0 | 759.3 | 765.3 | 779.5 | 792.5 | 806.7 | 813.2 | 835.2 | 854.1 | 878.4 | 892.6 |
| 12.5° | 772.4 | 775.3 | 787.2 | 808.5 | 831.0 | 850.0 | 858.8 | 883.1 | 902.7 | 929.9 | 952.4 |
| 15° | 788.4 | 793.1 | 811.5 | 842.9 | 874.8 | 900.3 | 909.8 | 935.8 | 955.4 | 984.4 | 1009.9 |
| 17.5° | 825.7 | 831.0 | 851.7 | 885.5 | 929.3 | 958.9 | 967.2 | 994.5 | 1009.3 | 1028.8 | 1055.5 |
| 20° | 872.5 | 882.5 | 908.0 | 948.9 | 996.9 | 1025.3 | 1031.2 | 1057.9 | 1056.7 | 1065.0 | 1088.1 |
| 22.5° | 930.5 | 937.6 | 965.5 | 1014.0 | 1067.9 | 1099.3 | 1112.9 | 1124.2 | 1109.4 | 1102.3 | 1117.1 |
| 25° | 990.9 | 999.2 | 1029.4 | 1082.7 | 1143.2 | 1179.3 | 1190.5 | 1199.4 | 1175.7 | 1149.1 | 1150.9 |
| 27.5° | 1069.1 | 1075.0 | 1104.7 | 1161.5 | 1221.9 | 1262.8 | 1272.9 | 1288.3 | 1256.9 | 1214.2 | 1202.4 |
| 30° | 1162.1 | 1168.0 | 1199.4 | 1259.2 | 1319.1 | 1354.0 | 1369.4 | 1388.4 | 1354.0 | 1300.7 | 1287.1 |
| 32.5° | 1271.1 | 1277.0 | 1317.3 | 1378.9 | 1428.1 | 1466.0 | 1480.8 | 1500.9 | 1473.7 | 1413.8 | 1398.4 |
| 35° | 1401.4 | 1405.0 | 1452.3 | 1519.3 | 1571.4 | 1608.1 | 1618.2 | 1641.9 | 1611.7 | 1551.8 | 1543.6 |
| 37.5° | 1552.4 | 1556.6 | 1608.1 | 1685.7 | 1739.0 | 1779.9 | 1795.9 | 1802.4 | 1765.7 | 1698.7 | 1692.2 |
| 40° | 1718.3 | 1731.9 | 1782.3 | 1865.8 | 1925.6 | 1977.1 | 1991.3 | 1969.4 | 1917.9 | 1826.7 | 1814.8 |
| 42.5° | 1891.2 | 1903.1 | 1959.4 | 2050.0 | 2119.3 | 2172.0 | 2172.6 | 2125.2 | 2037.5 | 1911.4 | 1893.6 |
| 45° | 2035.2 | 2039.9 | 2112.8 | 2204.0 | 2289.3 | 2326.6 | 2330.1 | 2244.3 | 2112.2 | 1960.5 | 1922.6 |
| 47.5° | 2134.1 | 2141.8 | 2205.2 | 2292.8 | 2387.0 | 2420.8 | 2413.7 | 2306.4 | 2147.7 | 1992.5 | 1929.7 |
| 50° | 2135.3 | 2148.3 | 2217.0 | 2301.7 | 2392.9 | 2433.8 | 2423.7 | 2324.2 | 2167.8 | 1993.7 | 1912.6 |
| 52.5° | 1946.3 | 1967.6 | 2079.6 | 2202.2 | 2342.0 | 2411.9 | 2414.2 | 2347.3 | 2160.1 | 1974.8 | 1897.2 |
| 55° | 1468.3 | 1491.4 | 1632.4 | 1841.5 | 2111.6 | 2306.4 | 2340.2 | 2320.1 | 2151.3 | 1983.0 | 1924.4 |
| 57.5° | 777.1 | 759.3 | 837.5 | 1044.8 | 1384.2 | 1728.9 | 1827.9 | 1989.0 | 2052.3 | 1993.1 | 1974.8 |
| 60° | 169.4 | 180.7 | 240.5 | 324.0 | 540.2 | 813.2 | 909.8 | 1185.8 | 1513.9 | 1659.6 | 1765.1 |
| 62.5° | 72.9 | 71.7 | 74.6 | 84.7 | 123.8 | 206.1 | 251.7 | 411.1 | 648.6 | 890.8 | 1054.9 |
| 65° | 59.8 | 60.4 | 62.8 | 62.8 | 58.6 | 59.2 | 62.2 | 94.2 | 151.6 | 212.6 | 285.5 |
| 67.5° | 45.0 | 45.6 | 49.8 | 50.9 | 48.0 | 42.6 | 42.1 | 35.5 | 37.3 | 46.8 | 48.6 |
| 70° | 28.4 | 28.4 | 30.8 | 32.0 | 32.0 | 29.6 | 29.0 | 25.5 | 24.9 | 28.4 | 32.0 |
| 72.5° | 15.4 | 15.4 | 16.6 | 17.2 | 16.6 | 16.0 | 16.0 | 15.4 | 14.8 | 17.2 | 21.9 |
| 75° | 6.5 | 6.5 | 7.1 | 7.1 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 7.7 | 11.8 |
| 77.5° | 1.2 | 1.8 | 2.4 | 1.8 | 1.2 | 1.2 | 1.2 | 1.8 | 1.8 | 2.4 | 3.6 |
| 80° | 0.6 | 0.6 | 1.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 |
| 82.5° | 0.6 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 |
| 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° | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 |
| 2.5° | 774.7 | 768.2 | 770.6 | 771.8 | 770.0 | 768.8 | 762.3 | 760.5 | 757.6 | 752.8 | 751.6 |
| 5° | 800.8 | 795.5 | 794.9 | 791.3 | 783.0 | 773.0 | 760.5 | 755.2 | 749.3 | 743.3 | 742.2 |
| 7.5° | 844.6 | 838.1 | 834.0 | 822.1 | 803.2 | 787.2 | 766.4 | 755.2 | 747.5 | 739.8 | 738.0 |
| 10° | 900.9 | 893.2 | 881.4 | 859.4 | 834.0 | 810.9 | 786.6 | 771.8 | 759.9 | 749.3 | 748.7 |
| 12.5° | 960.7 | 952.4 | 931.1 | 903.3 | 872.5 | 851.1 | 820.3 | 799.6 | 781.8 | 765.9 | 764.1 |
| 15° | 1023.5 | 1013.4 | 984.4 | 951.2 | 922.8 | 900.9 | 867.1 | 834.0 | 806.7 | 783.6 | 781.3 |
| 17.5° | 1071.5 | 1059.0 | 1024.7 | 999.8 | 976.7 | 954.2 | 916.3 | 872.5 | 836.3 | 808.5 | 802.0 |
| 20° | 1101.7 | 1089.8 | 1057.3 | 1043.6 | 1033.0 | 1017.0 | 972.0 | 926.4 | 886.1 | 851.7 | 845.8 |
| 22.5° | 1130.7 | 1116.5 | 1088.1 | 1088.1 | 1096.4 | 1089.8 | 1041.3 | 989.2 | 941.8 | 902.1 | 893.2 |
| 25° | 1163.3 | 1152.0 | 1131.9 | 1148.5 | 1169.2 | 1168.6 | 1118.9 | 1053.7 | 999.2 | 954.8 | 945.9 |
| 27.5° | 1210.7 | 1199.4 | 1192.3 | 1223.7 | 1249.8 | 1248.0 | 1193.5 | 1123.0 | 1065.6 | 1021.7 | 1013.4 |
| 30° | 1294.2 | 1283.5 | 1275.8 | 1313.7 | 1346.9 | 1334.5 | 1274.6 | 1206.5 | 1148.5 | 1098.7 | 1092.8 |
| 32.5° | 1405.5 | 1394.3 | 1384.2 | 1422.1 | 1451.7 | 1435.8 | 1378.9 | 1314.9 | 1248.0 | 1199.4 | 1187.6 |
| 35° | 1551.8 | 1528.2 | 1518.1 | 1563.1 | 1575.5 | 1557.8 | 1503.3 | 1447.0 | 1375.9 | 1320.3 | 1312.6 |
| 37.5° | 1702.9 | 1675.0 | 1667.9 | 1707.0 | 1727.2 | 1720.7 | 1656.7 | 1598.0 | 1521.0 | 1459.4 | 1450.6 |
| 40° | 1832.0 | 1806.5 | 1794.1 | 1855.1 | 1900.7 | 1904.9 | 1847.4 | 1775.7 | 1685.1 | 1621.1 | 1605.2 |
| 42.5° | 1907.8 | 1885.9 | 1882.9 | 1977.7 | 2052.3 | 2105.7 | 2036.9 | 1962.9 | 1867.5 | 1795.3 | 1782.3 |
| 45° | 1925.0 | 1910.8 | 1935.7 | 2060.0 | 2176.1 | 2273.3 | 2214.6 | 2136.5 | 2033.4 | 1957.0 | 1944.5 |
| 47.5° | 1923.2 | 1918.5 | 1962.9 | 2102.7 | 2249.6 | 2369.2 | 2340.2 | 2252.0 | 2152.4 | 2072.5 | 2060.6 |
| 50° | 1897.8 | 1898.3 | 1972.4 | 2124.0 | 2279.2 | 2395.3 | 2366.3 | 2284.5 | 2195.7 | 2116.9 | 2107.4 |
| 52.5° | 1887.7 | 1884.1 | 1954.6 | 2117.5 | 2309.4 | 2383.4 | 2318.3 | 2226.5 | 2127.6 | 2030.4 | 2016.2 |
| 55° | 1923.2 | 1914.3 | 1957.0 | 2112.2 | 2313.0 | 2376.9 | 2205.2 | 2006.1 | 1803.6 | 1688.7 | 1679.2 |
| 57.5° | 1976.5 | 1967.1 | 1987.2 | 2073.1 | 2127.6 | 1976.5 | 1622.9 | 1301.9 | 1093.4 | 1005.1 | 966.6 |
| 60° | 1765.1 | 1758.6 | 1743.2 | 1639.5 | 1406.1 | 1060.8 | 722.6 | 460.8 | 331.1 | 267.7 | 267.7 |
| 62.5° | 1095.2 | 1086.3 | 1002.8 | 745.1 | 541.4 | 313.3 | 172.4 | 107.8 | 81.7 | 76.4 | 75.8 |
| 65° | 307.4 | 305.6 | 252.9 | 178.9 | 113.7 | 70.5 | 62.2 | 63.4 | 62.2 | 60.4 | 59.8 |
| 67.5° | 46.2 | 50.9 | 50.9 | 41.5 | 39.7 | 44.4 | 52.1 | 55.7 | 52.7 | 49.8 | 48.6 |
| 70° | 29.6 | 32.0 | 30.8 | 26.7 | 28.4 | 33.2 | 37.3 | 37.9 | 36.1 | 33.2 | 32.6 |
| 72.5° | 20.7 | 23.1 | 19.0 | 17.2 | 17.8 | 19.5 | 21.3 | 21.3 | 20.7 | 19.5 | 18.4 |
| 75° | 12.4 | 12.4 | 8.9 | 8.3 | 8.3 | 8.9 | 8.9 | 10.1 | 10.1 | 9.5 | 8.9 |
| 77.5° | 4.1 | 4.7 | 3.0 | 2.4 | 2.4 | 2.4 | 3.0 | 3.6 | 3.6 | 3.0 | 2.4 |
| 80° | 0.6 | 1.2 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.2 | 1.2 | 0.6 |
| 82.5° | 0.6 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 |
| 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)