

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P595764

Luminaire Tested: **ISW-PA1E-722-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISW-PA1E-722-U-T4W
Description: IMPACT ELITE LED WEDGE LUMINAIRE
(1) 70 CRI, 2200K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7463 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

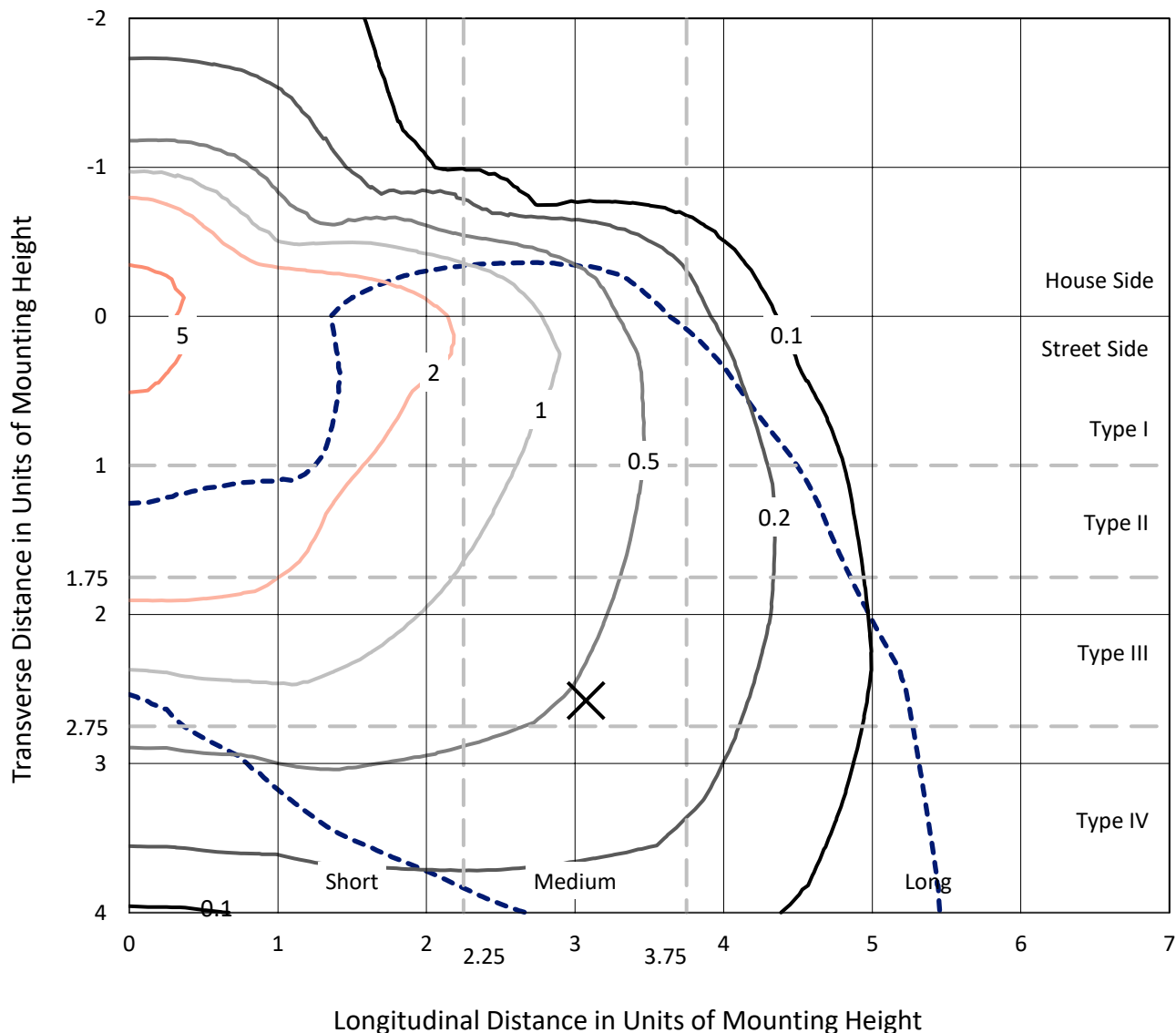
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

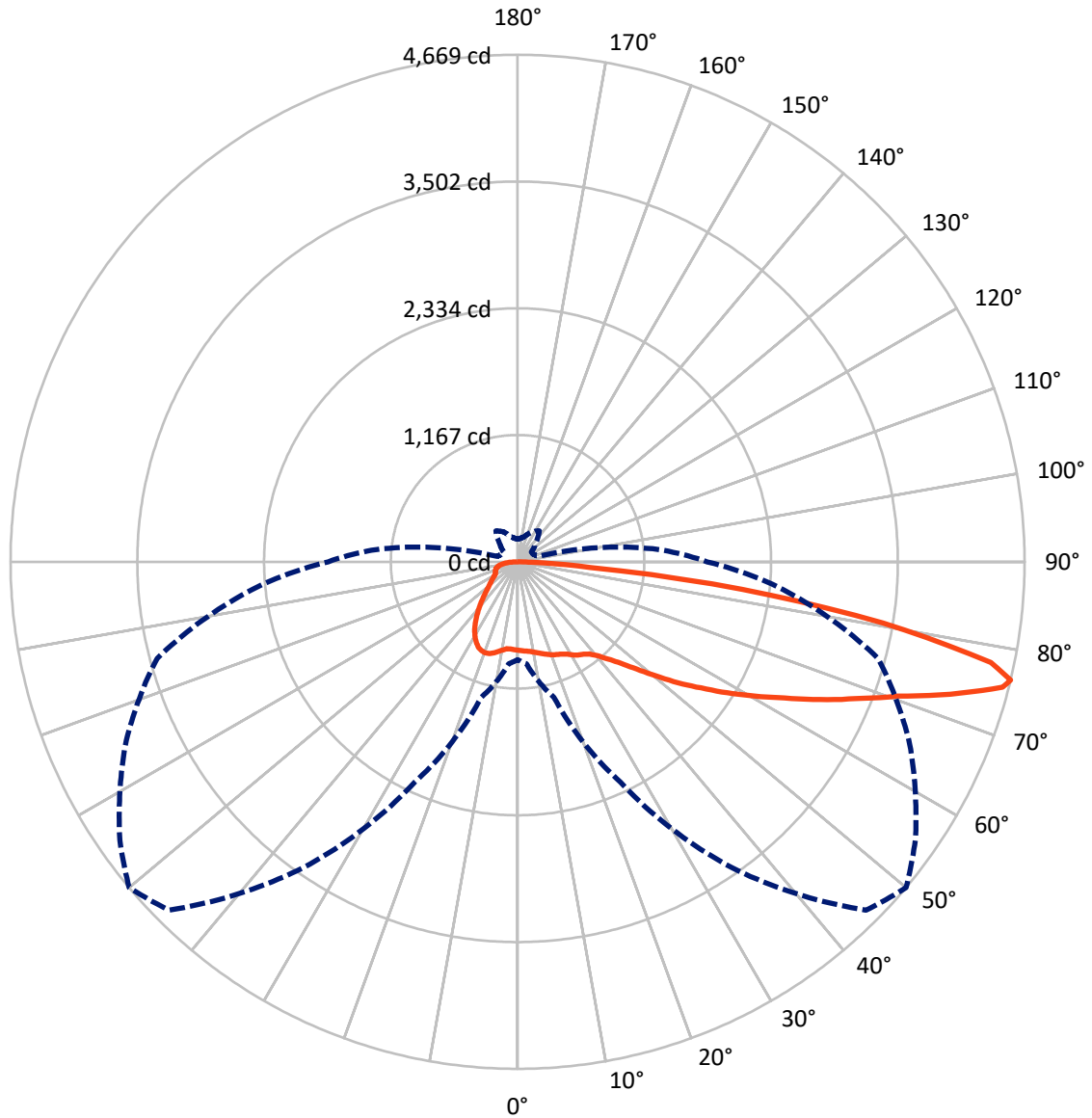
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

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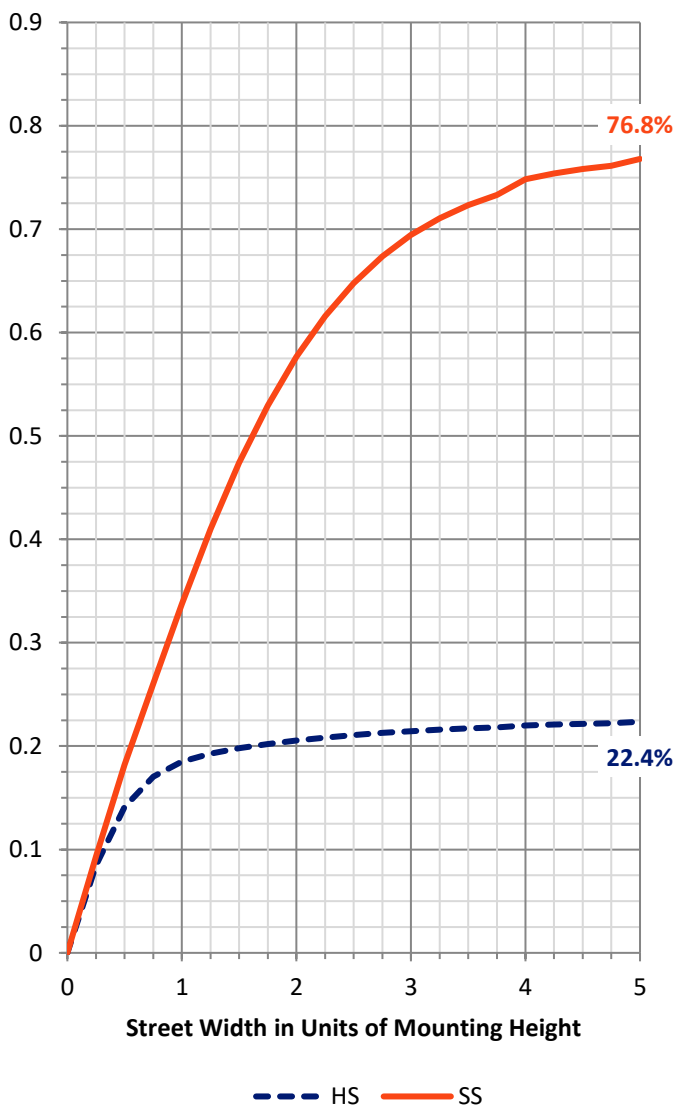
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1707.2 | 0.0 | 1707.2 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 5755.8 | 0.0 | 5755.8 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 7463.0 | 0.0 | 7463.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.0 | 1.1 |
| 10°-20° | 248.3 | 3.3 |
| 20°-30° | 419.5 | 5.6 |
| 30°-40° | 575.0 | 7.7 |
| 40°-50° | 846.9 | 11.3 |
| 50°-60° | 1332.2 | 17.9 |
| 60°-70° | 1917.5 | 25.7 |
| 70°-80° | 1743.6 | 23.4 |
| 80°-90° | 301.0 | 4.0 |
| 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° | 7463.0 | 100.0 |
| 0°-180° | 7463.0 | 100.0 |

Coefficient of Utilization

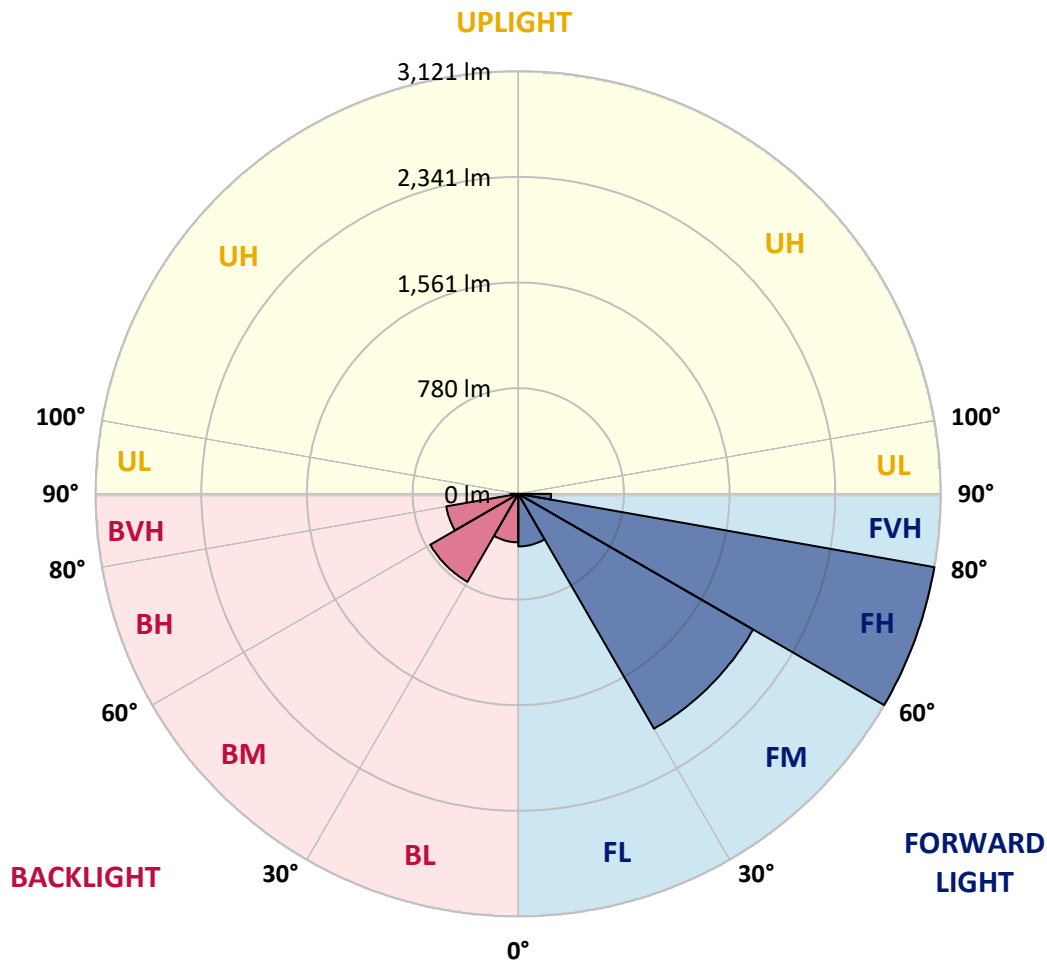


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 388.4 | 5.2 | | | |
| FM (30°-60°) | 2003.7 | 26.8 | | | |
| FH (60°-80°) | 3121.4 | 41.8 | | | G2/5000 |
| FVH (80°-90°) | 242.3 | 3.2 | | | G3/500 |
| BL (0°-30°) | 358.4 | 4.8 | B1/500 | | |
| BM (30°-60°) | 750.4 | 10.1 | B1/1000 | | |
| BH (60°-80°) | 539.8 | 7.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 58.7 | 0.8 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 50° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 813.5 | 813.5 | 813.5 | 813.5 | 813.5 | 813.5 | 813.5 | 813.5 | 813.5 | 813.5 | 813.5 |
| 2.5° | 831.7 | 831.7 | 833.6 | 829.9 | 829.9 | 820.8 | 820.8 | 818.9 | 815.3 | 813.5 | 809.8 |
| 5° | 862.8 | 862.8 | 857.3 | 848.2 | 842.7 | 831.7 | 826.2 | 822.6 | 815.3 | 806.1 | 797.0 |
| 7.5° | 895.7 | 892.1 | 888.4 | 873.8 | 862.8 | 842.7 | 833.6 | 828.1 | 813.5 | 800.7 | 795.2 |
| 10° | 930.4 | 925.0 | 915.8 | 897.5 | 881.1 | 857.3 | 846.4 | 839.0 | 822.6 | 811.6 | 798.8 |
| 12.5° | 950.5 | 950.5 | 939.6 | 917.6 | 895.7 | 866.5 | 861.0 | 851.8 | 835.4 | 820.8 | 808.0 |
| 15° | 970.7 | 972.5 | 961.5 | 935.9 | 910.3 | 888.4 | 879.3 | 873.8 | 855.5 | 833.6 | 817.1 |
| 17.5° | 990.8 | 988.9 | 978.0 | 948.7 | 921.3 | 901.2 | 895.7 | 888.4 | 870.1 | 850.0 | 833.6 |
| 20° | 1005.4 | 1001.7 | 998.1 | 961.5 | 934.1 | 921.3 | 914.0 | 908.5 | 890.2 | 868.3 | 846.4 |
| 22.5° | 1009.0 | 1012.7 | 1009.0 | 965.2 | 943.2 | 928.6 | 926.8 | 921.3 | 906.7 | 886.6 | 864.6 |
| 25° | 1010.9 | 1012.7 | 1018.2 | 976.1 | 956.0 | 945.1 | 941.4 | 937.8 | 926.8 | 910.3 | 881.1 |
| 27.5° | 1020.0 | 1021.8 | 1021.8 | 983.5 | 972.5 | 965.2 | 961.5 | 961.5 | 956.0 | 935.9 | 906.7 |
| 30° | 1021.8 | 1023.7 | 1027.3 | 1001.7 | 998.1 | 992.6 | 994.4 | 992.6 | 983.5 | 961.5 | 928.6 |
| 32.5° | 1034.6 | 1036.5 | 1045.6 | 1012.7 | 1016.4 | 1021.8 | 1023.7 | 1021.8 | 1003.6 | 985.3 | 957.9 |
| 35° | 1076.7 | 1074.9 | 1082.2 | 1040.1 | 1036.5 | 1038.3 | 1043.8 | 1041.9 | 1034.6 | 1018.2 | 999.9 |
| 37.5° | 1211.9 | 1211.9 | 1191.8 | 1104.1 | 1076.7 | 1073.0 | 1076.7 | 1085.8 | 1087.6 | 1073.0 | 1058.4 |
| 40° | 1449.6 | 1436.8 | 1425.8 | 1235.7 | 1148.0 | 1126.0 | 1137.0 | 1142.5 | 1157.1 | 1157.1 | 1157.1 |
| 42.5° | 1694.5 | 1696.4 | 1692.7 | 1440.4 | 1275.9 | 1221.1 | 1222.9 | 1235.7 | 1266.8 | 1272.3 | 1288.7 |
| 45° | 1912.1 | 1924.9 | 1952.3 | 1678.1 | 1464.2 | 1341.7 | 1328.9 | 1341.7 | 1385.6 | 1422.2 | 1464.2 |
| 47.5° | 2082.1 | 2067.4 | 2127.8 | 1926.7 | 1679.9 | 1506.3 | 1473.3 | 1477.0 | 1537.3 | 1595.8 | 1661.6 |
| 50° | 2228.3 | 2232.0 | 2259.4 | 2180.8 | 1952.3 | 1692.7 | 1648.8 | 1641.5 | 1727.4 | 1789.6 | 1901.1 |
| 52.5° | 2392.8 | 2381.9 | 2422.1 | 2403.8 | 2217.3 | 1921.2 | 1851.7 | 1829.8 | 1923.0 | 2010.8 | 2131.4 |
| 55° | 2471.4 | 2482.4 | 2564.7 | 2610.4 | 2467.8 | 2125.9 | 2049.2 | 2056.5 | 2155.2 | 2248.4 | 2416.6 |
| 57.5° | 2610.4 | 2621.3 | 2716.4 | 2811.4 | 2690.8 | 2343.5 | 2275.8 | 2275.8 | 2387.3 | 2491.5 | 2751.1 |
| 60° | 2800.5 | 2802.3 | 2899.2 | 3063.7 | 2886.4 | 2553.7 | 2509.8 | 2508.0 | 2628.6 | 2749.3 | 3145.9 |
| 62.5° | 2884.5 | 2906.5 | 3050.9 | 3264.8 | 3142.3 | 2811.4 | 2760.2 | 2774.9 | 2882.7 | 3023.5 | 3586.5 |
| 65° | 2771.2 | 2818.7 | 3120.4 | 3400.0 | 3370.8 | 3080.1 | 3060.0 | 3080.1 | 3145.9 | 3297.7 | 4052.6 |
| 67.5° | 2396.5 | 2460.5 | 2992.4 | 3491.4 | 3553.6 | 3390.9 | 3361.7 | 3358.0 | 3400.0 | 3570.0 | 4346.9 |
| 70° | 2202.7 | 2241.1 | 2654.2 | 3526.2 | 3699.8 | 3705.3 | 3705.3 | 3681.5 | 3676.1 | 3800.4 | 4374.4 |
| 72.5° | 1813.4 | 1853.6 | 2239.3 | 3332.4 | 3838.8 | 4125.7 | 4167.8 | 4080.0 | 3944.8 | 3919.2 | 3915.5 |
| 75° | 1292.4 | 1321.6 | 1654.3 | 2621.3 | 3661.4 | 4529.7 | 4613.8 | 4443.8 | 4067.3 | 3659.6 | 2855.3 |
| 76° | 901.2 | 943.2 | 1292.4 | 2239.3 | 3438.4 | 4537.0 | 4668.7 | 4471.2 | 3985.0 | 3436.6 | 2352.6 |
| 77.5° | 457.0 | 471.6 | 747.6 | 1504.4 | 2877.2 | 4328.7 | 4456.6 | 4235.4 | 3626.7 | 2776.7 | 1493.5 |
| 80° | 173.7 | 179.1 | 266.9 | 548.4 | 1579.4 | 3361.7 | 3411.0 | 3113.0 | 2400.1 | 1186.4 | 537.4 |
| 82.5° | 91.4 | 95.1 | 149.9 | 270.5 | 648.9 | 1848.1 | 2085.7 | 1736.6 | 941.4 | 356.5 | 157.2 |
| 85° | 45.7 | 49.4 | 87.7 | 164.5 | 321.7 | 577.6 | 669.0 | 632.5 | 312.6 | 135.3 | 58.5 |
| 87.5° | 18.3 | 21.9 | 43.9 | 73.1 | 129.8 | 113.3 | 126.1 | 162.7 | 100.5 | 64.0 | 20.1 |
| 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° | 813.5 | 813.5 | 813.5 | 813.5 | 813.5 | 813.5 | 813.5 | 813.5 | 813.5 | 813.5 | 813.5 |
| 2.5° | 809.8 | 808.0 | 809.8 | 808.0 | 809.8 | 809.8 | 811.6 | 808.0 | 808.0 | 811.6 | 806.1 |
| 5° | 797.0 | 795.2 | 797.0 | 800.7 | 802.5 | 806.1 | 813.5 | 811.6 | 815.3 | 818.9 | 820.8 |
| 7.5° | 791.5 | 789.7 | 795.2 | 797.0 | 802.5 | 809.8 | 820.8 | 828.1 | 831.7 | 839.0 | 835.4 |
| 10° | 797.0 | 797.0 | 804.3 | 809.8 | 818.9 | 828.1 | 837.2 | 844.5 | 853.7 | 859.1 | 857.3 |
| 12.5° | 806.1 | 804.3 | 817.1 | 824.4 | 837.2 | 846.4 | 853.7 | 857.3 | 864.6 | 871.9 | 870.1 |
| 15° | 815.3 | 817.1 | 835.4 | 850.0 | 864.6 | 868.3 | 870.1 | 866.5 | 870.1 | 873.8 | 873.8 |
| 17.5° | 833.6 | 835.4 | 855.5 | 871.9 | 884.7 | 881.1 | 871.9 | 862.8 | 862.8 | 864.6 | 866.5 |
| 20° | 848.2 | 851.8 | 875.6 | 890.2 | 897.5 | 882.9 | 868.3 | 857.3 | 851.8 | 853.7 | 851.8 |
| 22.5° | 864.6 | 871.9 | 895.7 | 903.0 | 892.1 | 873.8 | 855.5 | 840.9 | 840.9 | 842.7 | 842.7 |
| 25° | 884.7 | 888.4 | 904.8 | 901.2 | 881.1 | 853.7 | 839.0 | 833.6 | 831.7 | 833.6 | 835.4 |
| 27.5° | 903.0 | 904.8 | 914.0 | 888.4 | 850.0 | 820.8 | 815.3 | 817.1 | 818.9 | 820.8 | 822.6 |
| 30° | 926.8 | 930.4 | 921.3 | 870.1 | 811.6 | 778.7 | 778.7 | 789.7 | 793.3 | 798.8 | 797.0 |
| 32.5° | 956.0 | 959.7 | 932.3 | 846.4 | 762.3 | 729.4 | 731.2 | 747.6 | 758.6 | 762.3 | 764.1 |
| 35° | 1005.4 | 998.1 | 939.6 | 813.5 | 709.3 | 669.0 | 670.9 | 691.0 | 705.6 | 711.1 | 707.4 |
| 37.5° | 1065.7 | 1063.9 | 950.5 | 771.4 | 643.4 | 606.9 | 608.7 | 617.9 | 632.5 | 634.3 | 636.1 |
| 40° | 1166.2 | 1151.6 | 968.8 | 716.6 | 577.6 | 542.9 | 539.3 | 544.7 | 542.9 | 546.6 | 548.4 |
| 42.5° | 1310.7 | 1272.3 | 992.6 | 654.4 | 519.1 | 482.6 | 478.9 | 469.8 | 458.8 | 447.9 | 442.4 |
| 45° | 1480.7 | 1420.3 | 1021.8 | 590.4 | 458.8 | 425.9 | 416.8 | 405.8 | 383.9 | 360.1 | 352.8 |
| 47.5° | 1700.0 | 1584.9 | 1054.7 | 526.5 | 402.2 | 376.6 | 369.3 | 352.8 | 327.2 | 299.8 | 294.3 |
| 50° | 1924.9 | 1778.6 | 1087.6 | 473.4 | 356.5 | 341.8 | 334.5 | 318.1 | 285.2 | 259.6 | 254.1 |
| 52.5° | 2186.3 | 1970.6 | 1122.4 | 425.9 | 316.2 | 316.2 | 310.8 | 285.2 | 254.1 | 230.3 | 226.7 |
| 55° | 2487.9 | 2168.0 | 1177.2 | 380.2 | 287.0 | 294.3 | 287.0 | 261.4 | 232.2 | 215.7 | 213.9 |
| 57.5° | 2848.0 | 2418.4 | 1246.7 | 330.9 | 261.4 | 266.9 | 266.9 | 248.6 | 228.5 | 217.5 | 215.7 |
| 60° | 3209.9 | 2672.5 | 1290.6 | 294.3 | 241.3 | 246.8 | 257.7 | 248.6 | 235.8 | 230.3 | 228.5 |
| 62.5° | 3557.2 | 2932.1 | 1215.6 | 263.2 | 221.2 | 237.6 | 265.1 | 266.9 | 254.1 | 255.9 | 255.9 |
| 65° | 3816.8 | 3129.5 | 983.5 | 235.8 | 208.4 | 243.1 | 287.0 | 288.8 | 266.9 | 261.4 | 259.6 |
| 67.5° | 3906.4 | 3184.3 | 661.7 | 217.5 | 201.1 | 246.8 | 312.6 | 305.3 | 266.9 | 255.9 | 250.4 |
| 70° | 3736.4 | 2983.3 | 429.6 | 201.1 | 190.1 | 243.1 | 332.7 | 314.4 | 265.1 | 248.6 | 241.3 |
| 72.5° | 3133.2 | 2544.5 | 287.0 | 186.5 | 179.1 | 239.5 | 345.5 | 314.4 | 259.6 | 235.8 | 228.5 |
| 75° | 2175.3 | 1738.4 | 213.9 | 168.2 | 162.7 | 234.0 | 349.1 | 308.9 | 246.8 | 221.2 | 215.7 |
| 76° | 1745.7 | 1303.3 | 193.8 | 160.9 | 155.4 | 230.3 | 347.3 | 303.4 | 237.6 | 213.9 | 208.4 |
| 77.5° | 1102.3 | 749.5 | 162.7 | 148.1 | 144.4 | 223.0 | 340.0 | 290.6 | 224.8 | 201.1 | 195.6 |
| 80° | 385.7 | 274.2 | 124.3 | 120.6 | 122.5 | 206.6 | 319.9 | 265.1 | 199.2 | 177.3 | 170.0 |
| 82.5° | 153.6 | 126.1 | 93.2 | 93.2 | 96.9 | 177.3 | 288.8 | 234.0 | 173.7 | 146.2 | 135.3 |
| 85° | 60.3 | 54.8 | 65.8 | 65.8 | 69.5 | 144.4 | 241.3 | 182.8 | 118.8 | 91.4 | 87.7 |
| 87.5° | 18.3 | 25.6 | 29.2 | 31.1 | 32.9 | 73.1 | 137.1 | 80.4 | 53.0 | 38.4 | 31.1 |
| 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)