

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: P595595

Luminaire Tested: **ISW-PA1C-722-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISW-PA1C-722-U-T2R-HSS
Description: IMPACT ELITE LED WEDGE LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3972 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

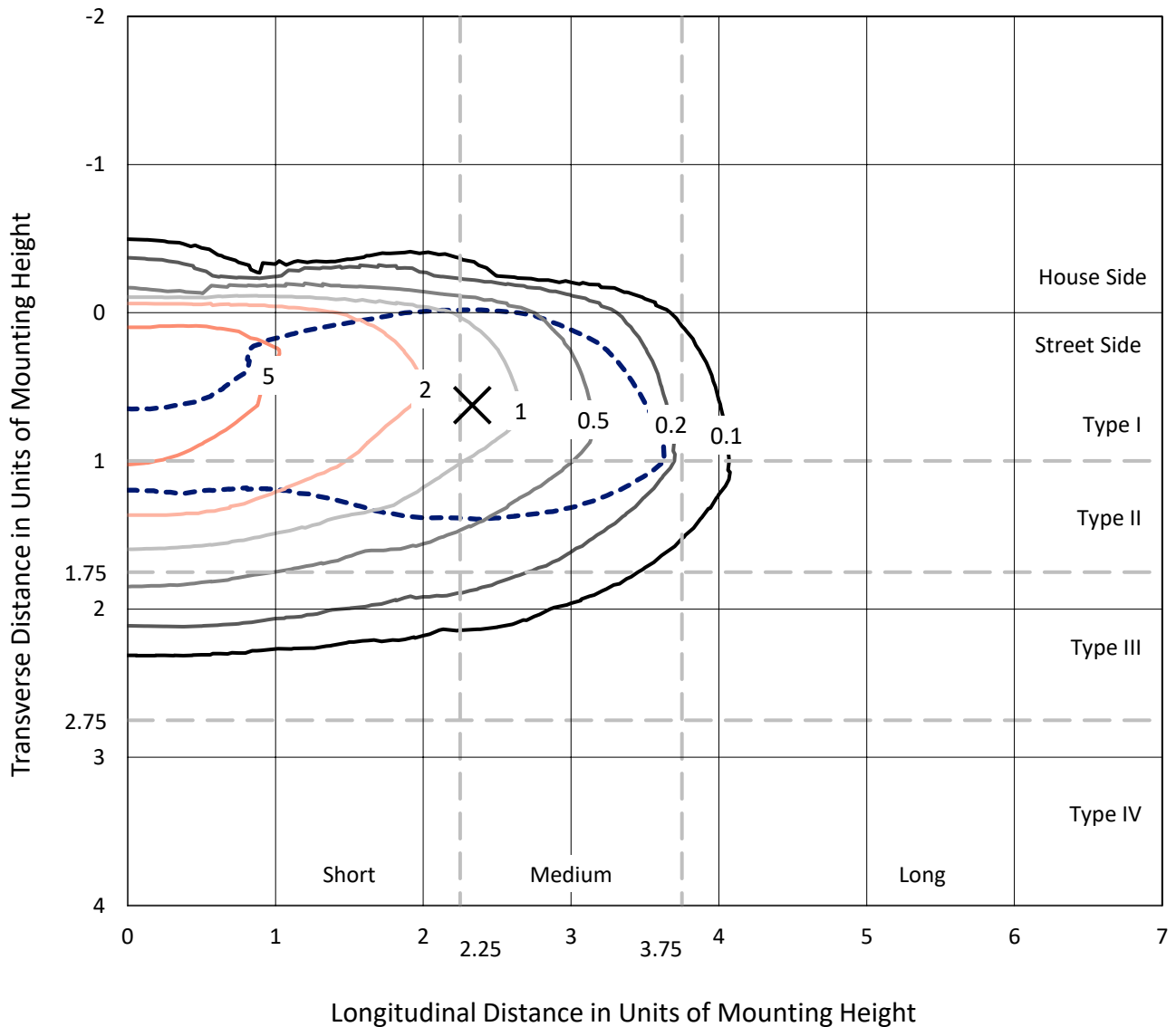
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

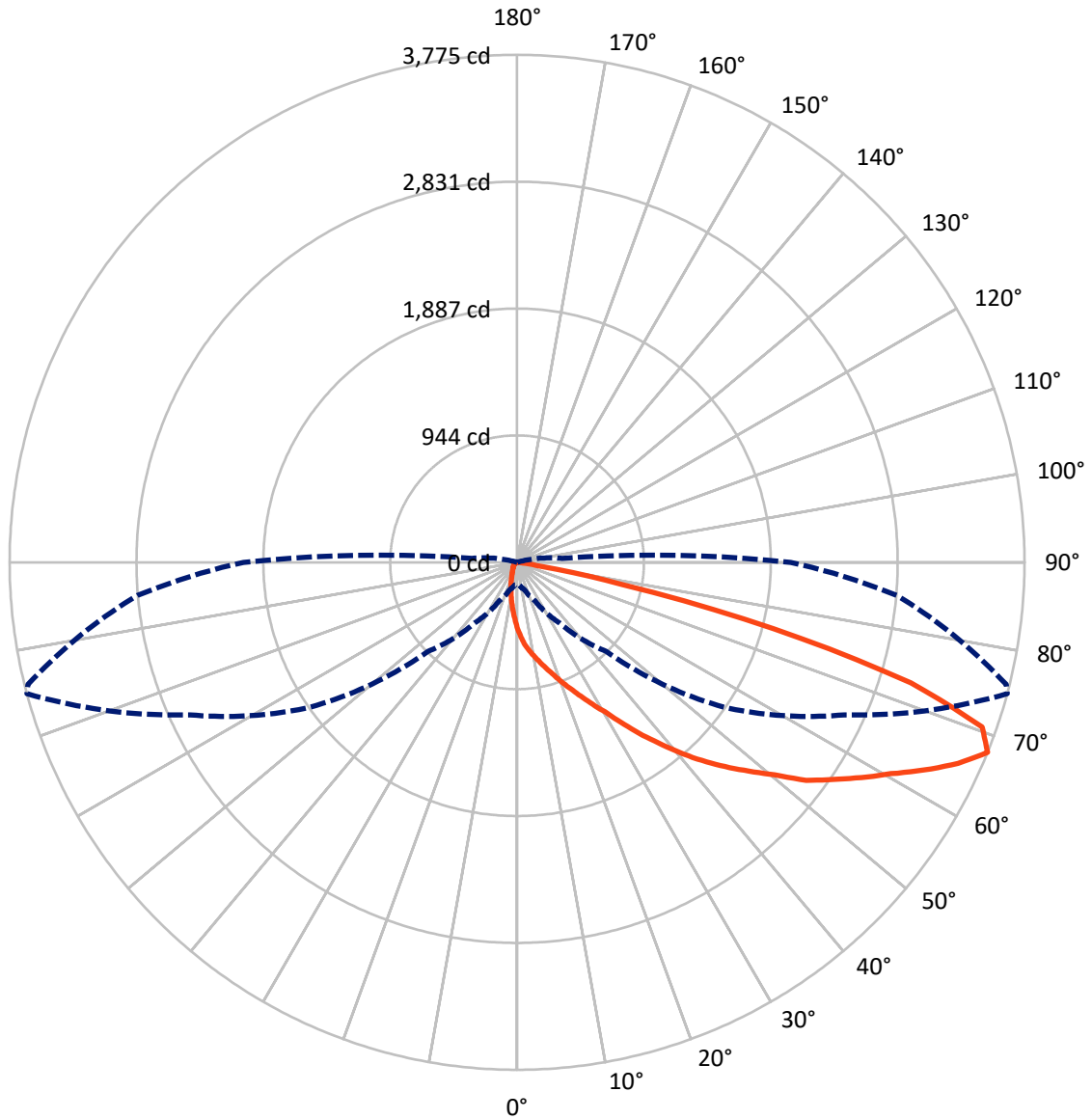
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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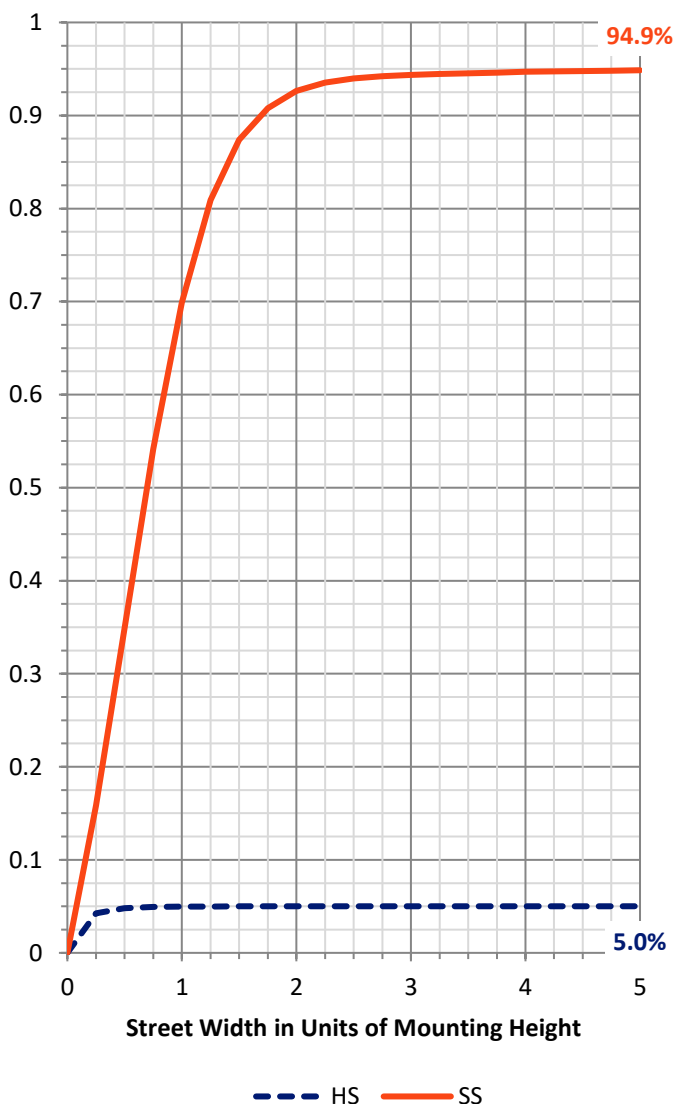
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 200.3 | 0.0 | 200.3 |
| | % Fixture | 5.0 | 0.0 | 5.0 |
| Street Side | Lumens | 3771.8 | 0.0 | 3771.8 |
| | % Fixture | 95.0 | 0.0 | 95.0 |
| Total | Lumens | 3972.0 | 0.0 | 3972.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.5 | 1.1 |
| 10°-20° | 143.7 | 3.6 |
| 20°-30° | 288.8 | 7.3 |
| 30°-40° | 546.3 | 13.8 |
| 40°-50° | 817.2 | 20.6 |
| 50°-60° | 943.5 | 23.8 |
| 60°-70° | 836.4 | 21.1 |
| 70°-80° | 338.1 | 8.5 |
| 80°-90° | 13.5 | 0.3 |
| 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° | 3972.0 | 100.0 |
| 0°-180° | 3972.0 | 100.0 |

Coefficient of Utilization

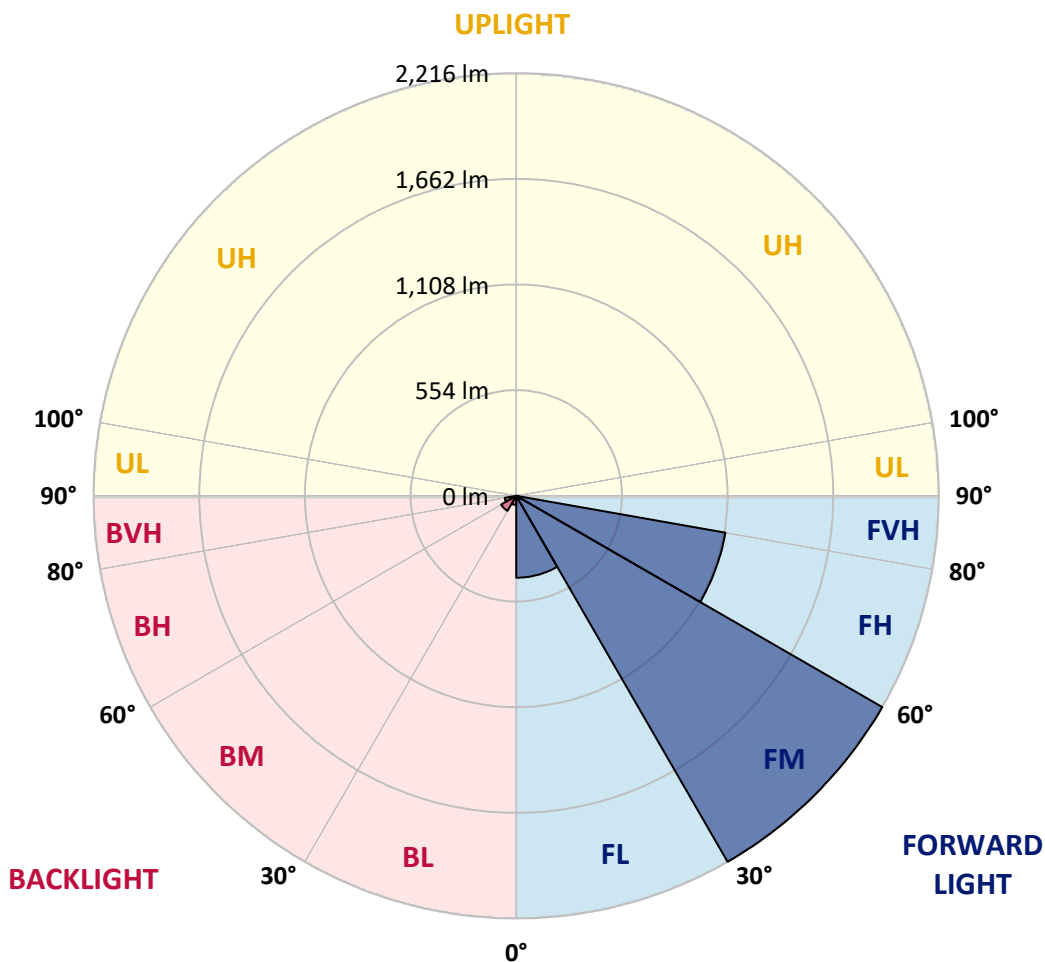


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 429.4 | 10.8 | | | |
| FM (30°-60°) | 2215.7 | 55.8 | | | |
| FH (60°-80°) | 1113.7 | 28.0 | | | G1/1800 |
| FVH (80°-90°) | 12.9 | 0.3 | | | G1/100 |
| BL (0°-30°) | 47.6 | 1.2 | B0/110 | | |
| BM (30°-60°) | 91.3 | 2.3 | B0/220 | | |
| BH (60°-80°) | 60.7 | 1.5 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 493.6 | 493.6 | 493.6 | 493.6 | 493.6 | 493.6 | 493.6 | 493.6 | 493.6 | 493.6 | 493.6 |
| 2.5° | 686.8 | 689.2 | 684.4 | 673.7 | 664.1 | 641.5 | 623.6 | 591.4 | 556.8 | 556.8 | 515.1 |
| 5° | 767.9 | 765.5 | 763.1 | 754.7 | 747.6 | 728.5 | 704.7 | 670.1 | 616.4 | 611.7 | 542.5 |
| 7.5° | 807.2 | 804.8 | 800.1 | 796.5 | 796.5 | 783.4 | 760.7 | 724.9 | 665.3 | 660.6 | 567.6 |
| 10° | 853.7 | 848.9 | 848.9 | 839.4 | 837.0 | 821.5 | 809.6 | 778.6 | 713.0 | 707.1 | 596.2 |
| 12.5° | 908.6 | 903.8 | 905.0 | 896.6 | 893.1 | 876.4 | 859.7 | 829.9 | 764.3 | 758.3 | 629.6 |
| 15° | 939.6 | 937.2 | 944.3 | 945.5 | 947.9 | 933.6 | 918.1 | 887.1 | 821.5 | 813.2 | 668.9 |
| 17.5° | 957.4 | 957.4 | 965.8 | 981.3 | 999.2 | 990.8 | 978.9 | 953.9 | 879.9 | 875.2 | 710.6 |
| 20° | 992.0 | 988.4 | 1002.8 | 1017.1 | 1039.7 | 1046.9 | 1043.3 | 1024.2 | 950.3 | 936.0 | 755.9 |
| 22.5° | 1049.3 | 1044.5 | 1057.6 | 1075.5 | 1102.9 | 1105.3 | 1107.7 | 1098.1 | 1021.8 | 1007.5 | 803.6 |
| 25° | 1184.0 | 1172.1 | 1160.1 | 1157.8 | 1168.5 | 1178.0 | 1170.9 | 1178.0 | 1102.9 | 1089.8 | 854.9 |
| 27.5° | 1446.3 | 1426.0 | 1368.8 | 1305.6 | 1261.5 | 1269.8 | 1247.2 | 1260.3 | 1195.9 | 1179.2 | 902.6 |
| 30° | 1697.9 | 1677.6 | 1631.1 | 1519.0 | 1417.7 | 1372.4 | 1339.0 | 1334.2 | 1291.3 | 1272.2 | 957.4 |
| 32.5° | 1873.2 | 1860.0 | 1829.0 | 1753.9 | 1627.5 | 1511.9 | 1447.5 | 1424.8 | 1418.9 | 1389.1 | 1027.8 |
| 35° | 1992.4 | 1980.5 | 1959.0 | 1898.2 | 1805.2 | 1676.4 | 1565.5 | 1515.5 | 1560.8 | 1525.0 | 1107.7 |
| 37.5° | 2063.9 | 2055.6 | 2031.7 | 1990.0 | 1939.9 | 1855.3 | 1712.2 | 1632.3 | 1703.8 | 1670.5 | 1210.2 |
| 40° | 2116.4 | 2094.9 | 2078.2 | 2046.0 | 2029.4 | 2001.9 | 1879.1 | 1753.9 | 1858.8 | 1824.3 | 1311.6 |
| 42.5° | 2121.2 | 2111.6 | 2098.5 | 2079.4 | 2081.8 | 2099.7 | 2056.8 | 1894.6 | 2015.0 | 1982.8 | 1418.9 |
| 45° | 2120.0 | 2110.4 | 2100.9 | 2081.8 | 2093.7 | 2160.5 | 2199.9 | 2042.5 | 2167.7 | 2134.3 | 1532.1 |
| 47.5° | 2085.4 | 2078.2 | 2080.6 | 2080.6 | 2096.1 | 2186.7 | 2310.7 | 2192.7 | 2320.3 | 2288.1 | 1669.3 |
| 50° | 1963.8 | 1970.9 | 2018.6 | 2043.7 | 2071.1 | 2187.9 | 2388.2 | 2350.1 | 2484.8 | 2462.2 | 1801.6 |
| 52.5° | 1578.6 | 1619.2 | 1812.3 | 1944.7 | 2024.6 | 2164.1 | 2438.3 | 2515.8 | 2693.5 | 2658.9 | 1951.8 |
| 55° | 1206.6 | 1209.0 | 1395.0 | 1702.7 | 1932.8 | 2121.2 | 2466.9 | 2627.9 | 2852.1 | 2833.0 | 2084.2 |
| 57.5° | 978.9 | 977.7 | 1069.5 | 1346.1 | 1694.3 | 2053.2 | 2474.1 | 2710.2 | 3020.2 | 2984.4 | 2236.8 |
| 60° | 800.1 | 795.3 | 850.1 | 1020.6 | 1384.3 | 1893.4 | 2447.9 | 2776.9 | 3193.1 | 3180.0 | 2396.6 |
| 62.5° | 578.3 | 583.1 | 655.8 | 788.1 | 1067.1 | 1598.9 | 2391.8 | 2797.2 | 3401.7 | 3388.6 | 2575.4 |
| 65° | 332.7 | 347.0 | 426.9 | 567.6 | 817.9 | 1250.8 | 2232.0 | 2781.7 | 3605.6 | 3604.4 | 2741.2 |
| 67.5° | 166.9 | 168.1 | 211.0 | 317.2 | 549.7 | 936.0 | 1879.1 | 2683.9 | 3774.9 | 3748.7 | 2836.6 |
| 70° | 107.3 | 109.7 | 124.0 | 163.3 | 304.0 | 648.6 | 1435.6 | 2407.3 | 3668.8 | 3659.3 | 2697.1 |
| 72.5° | 82.3 | 84.7 | 96.6 | 107.3 | 158.6 | 368.4 | 971.8 | 1870.8 | 3063.1 | 3036.9 | 2103.3 |
| 75° | 64.4 | 65.6 | 77.5 | 87.0 | 106.1 | 172.9 | 487.7 | 1166.1 | 1973.3 | 1905.3 | 1197.1 |
| 77.5° | 51.3 | 52.5 | 58.4 | 69.2 | 81.1 | 96.6 | 144.3 | 524.6 | 802.4 | 716.6 | 388.7 |
| 80° | 33.4 | 34.6 | 44.1 | 53.7 | 69.2 | 63.2 | 56.0 | 151.4 | 171.7 | 155.0 | 69.2 |
| 82.5° | 19.1 | 20.3 | 29.8 | 42.9 | 52.5 | 35.8 | 32.2 | 44.1 | 40.5 | 39.3 | 21.5 |
| 85° | 6.0 | 6.0 | 20.3 | 29.8 | 23.8 | 10.7 | 20.3 | 15.5 | 13.1 | 11.9 | 7.2 |
| 87.5° | 1.2 | 1.2 | 9.5 | 10.7 | 3.6 | 1.2 | 2.4 | 3.6 | 4.8 | 6.0 | 3.6 |
| 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° | 493.6 | 493.6 | 493.6 | 493.6 | 493.6 | 493.6 | 493.6 | 493.6 | 493.6 | 493.6 | 493.6 |
| 2.5° | 494.8 | 471.0 | 426.9 | 388.7 | 351.7 | 319.5 | 296.9 | 276.6 | 262.3 | 258.7 | 252.8 |
| 5° | 498.4 | 451.9 | 367.2 | 295.7 | 233.7 | 183.6 | 155.0 | 135.9 | 126.4 | 120.4 | 120.4 |
| 7.5° | 502.0 | 432.8 | 311.2 | 215.8 | 147.8 | 112.1 | 94.2 | 85.8 | 82.3 | 81.1 | 79.9 |
| 10° | 509.1 | 418.5 | 263.5 | 155.0 | 101.3 | 84.7 | 77.5 | 73.9 | 71.5 | 70.3 | 70.3 |
| 12.5° | 521.0 | 406.6 | 219.4 | 114.5 | 83.5 | 75.1 | 70.3 | 65.6 | 63.2 | 62.0 | 62.0 |
| 15° | 536.5 | 398.2 | 181.2 | 91.8 | 76.3 | 68.0 | 62.0 | 57.2 | 53.7 | 52.5 | 52.5 |
| 17.5° | 558.0 | 392.3 | 149.0 | 81.1 | 70.3 | 60.8 | 53.7 | 48.9 | 45.3 | 44.1 | 44.1 |
| 20° | 579.5 | 392.3 | 122.8 | 75.1 | 64.4 | 53.7 | 46.5 | 40.5 | 37.0 | 35.8 | 35.8 |
| 22.5° | 608.1 | 391.1 | 102.5 | 69.2 | 57.2 | 46.5 | 39.3 | 32.2 | 29.8 | 28.6 | 28.6 |
| 25° | 631.9 | 391.1 | 88.2 | 63.2 | 50.1 | 40.5 | 32.2 | 26.2 | 23.8 | 22.7 | 22.7 |
| 27.5° | 660.6 | 387.5 | 75.1 | 56.0 | 42.9 | 33.4 | 26.2 | 21.5 | 19.1 | 17.9 | 17.9 |
| 30° | 685.6 | 382.7 | 66.8 | 50.1 | 37.0 | 27.4 | 21.5 | 16.7 | 15.5 | 15.5 | 15.5 |
| 32.5° | 727.3 | 379.2 | 59.6 | 42.9 | 31.0 | 22.7 | 16.7 | 13.1 | 11.9 | 11.9 | 11.9 |
| 35° | 777.4 | 379.2 | 54.8 | 37.0 | 26.2 | 19.1 | 13.1 | 10.7 | 9.5 | 9.5 | 9.5 |
| 37.5° | 843.0 | 382.7 | 48.9 | 32.2 | 21.5 | 15.5 | 10.7 | 8.3 | 7.2 | 7.2 | 7.2 |
| 40° | 912.1 | 391.1 | 44.1 | 28.6 | 19.1 | 11.9 | 8.3 | 6.0 | 4.8 | 6.0 | 6.0 |
| 42.5° | 994.4 | 399.4 | 39.3 | 25.0 | 15.5 | 9.5 | 6.0 | 3.6 | 2.4 | 3.6 | 3.6 |
| 45° | 1075.5 | 407.8 | 37.0 | 21.5 | 13.1 | 7.2 | 3.6 | 2.4 | 1.2 | 2.4 | 2.4 |
| 47.5° | 1175.6 | 428.0 | 34.6 | 19.1 | 10.7 | 6.0 | 2.4 | 1.2 | 0.0 | 1.2 | 1.2 |
| 50° | 1291.3 | 450.7 | 31.0 | 15.5 | 8.3 | 4.8 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 1402.2 | 469.8 | 27.4 | 13.1 | 7.2 | 3.6 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 1513.1 | 481.7 | 23.8 | 10.7 | 6.0 | 3.6 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 1632.3 | 488.9 | 21.5 | 9.5 | 4.8 | 2.4 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 1764.7 | 488.9 | 17.9 | 8.3 | 3.6 | 2.4 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 1911.3 | 474.5 | 16.7 | 7.2 | 3.6 | 2.4 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 2030.5 | 423.3 | 14.3 | 6.0 | 3.6 | 2.4 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 2035.3 | 335.0 | 13.1 | 4.8 | 3.6 | 2.4 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 1814.7 | 228.9 | 10.7 | 3.6 | 2.4 | 2.4 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1358.1 | 122.8 | 9.5 | 3.6 | 2.4 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 732.1 | 47.7 | 6.0 | 3.6 | 2.4 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 213.4 | 23.8 | 3.6 | 2.4 | 2.4 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 39.3 | 11.9 | 2.4 | 2.4 | 2.4 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 10.7 | 4.8 | 1.2 | 1.2 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 4.8 | 2.4 | 1.2 | 1.2 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.4 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 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)