

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: P595376

Luminaire Tested: **IST-PA1F-735-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1F-735-U-T4W-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7531 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

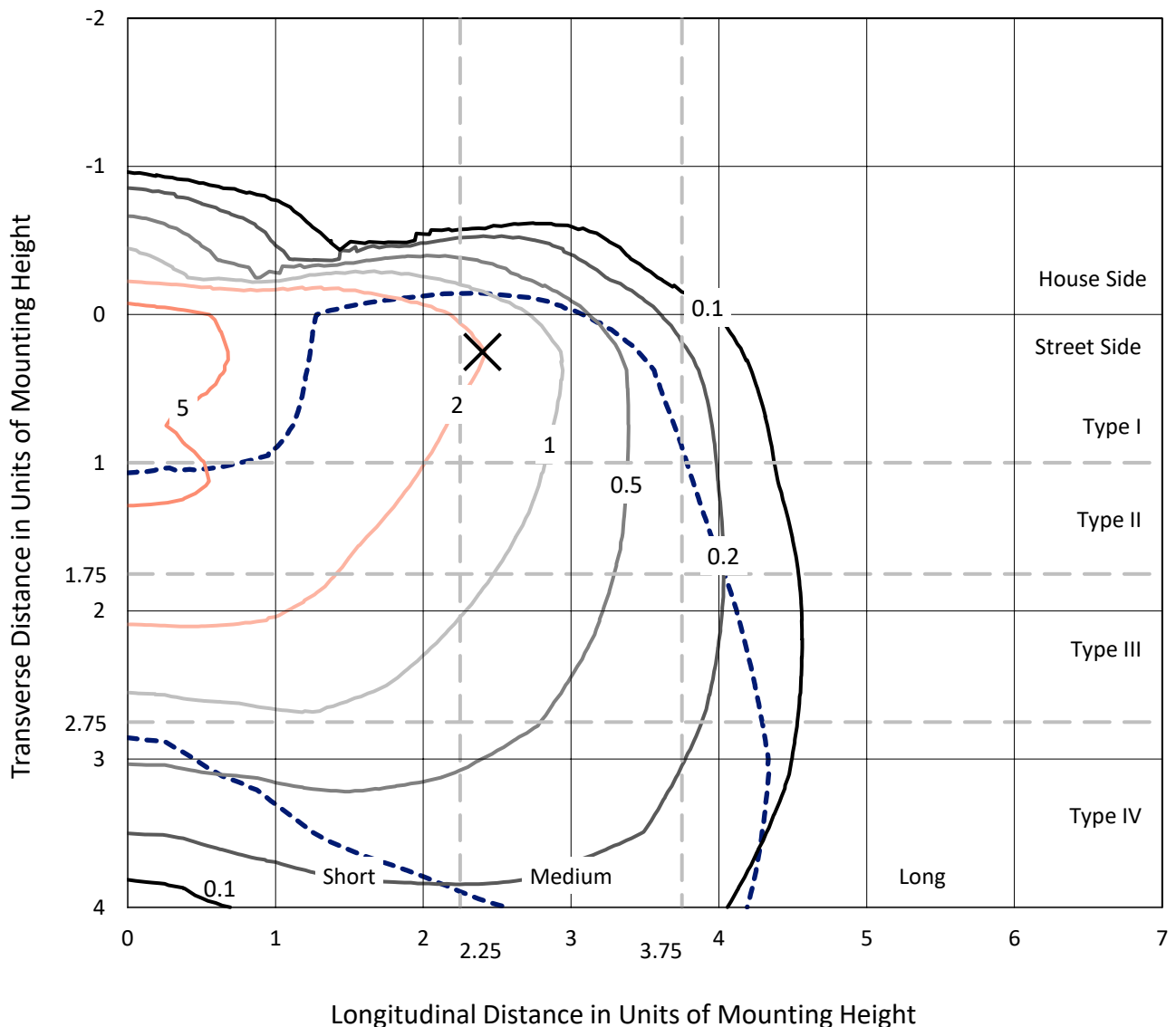
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

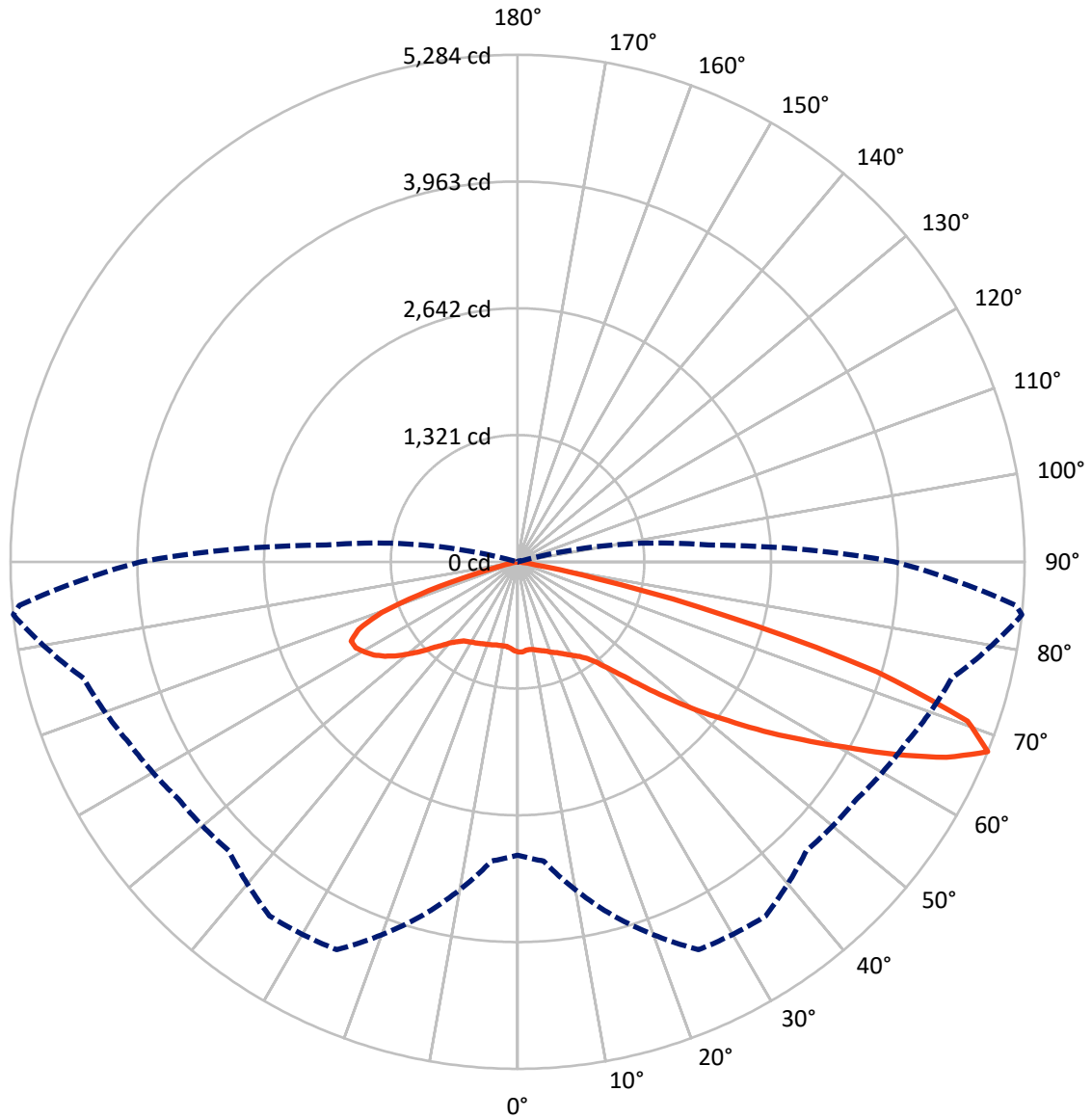
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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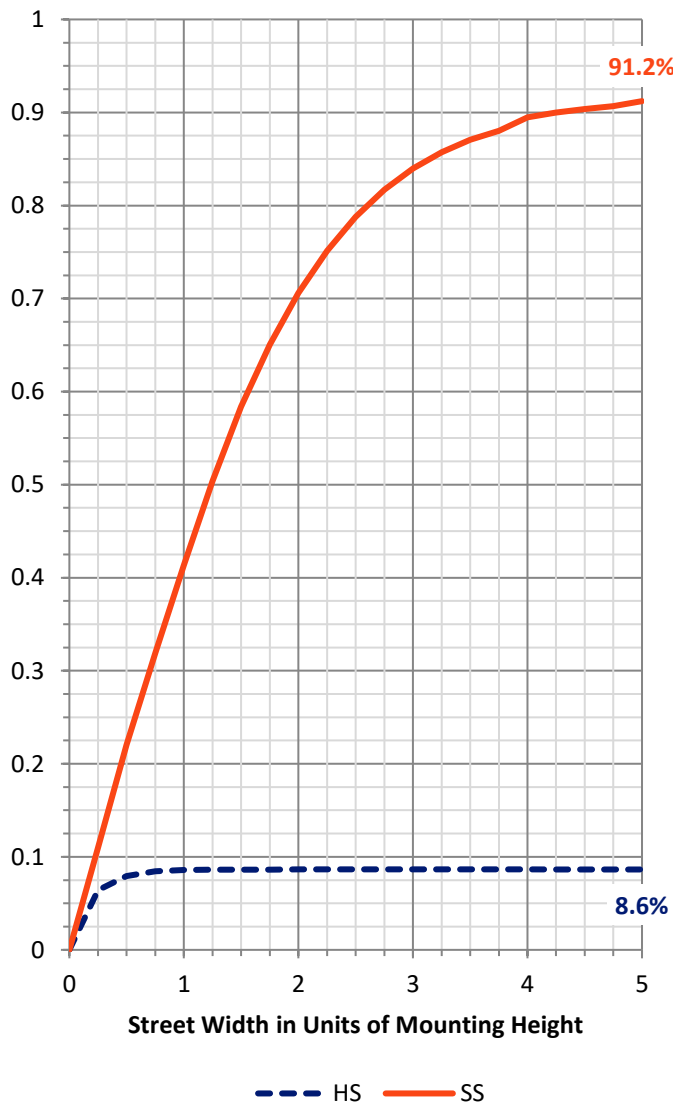
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 655.7 | 0.0 | 655.7 |
| | % Fixture | 8.7 | 0.0 | 8.7 |
| Street Side | Lumens | 6875.3 | 0.0 | 6875.3 |
| | % Fixture | 91.3 | 0.0 | 91.3 |
| Total | Lumens | 7531.0 | 0.0 | 7531.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 84.1 | 1.1 |
| 10°-20° | 220.1 | 2.9 |
| 20°-30° | 352.4 | 4.7 |
| 30°-40° | 507.2 | 6.7 |
| 40°-50° | 870.5 | 11.6 |
| 50°-60° | 1520.9 | 20.2 |
| 60°-70° | 2178.1 | 28.9 |
| 70°-80° | 1637.1 | 21.7 |
| 80°-90° | 160.7 | 2.1 |
| 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° | 7531.0 | 100.0 |
| 0°-180° | 7531.0 | 100.0 |

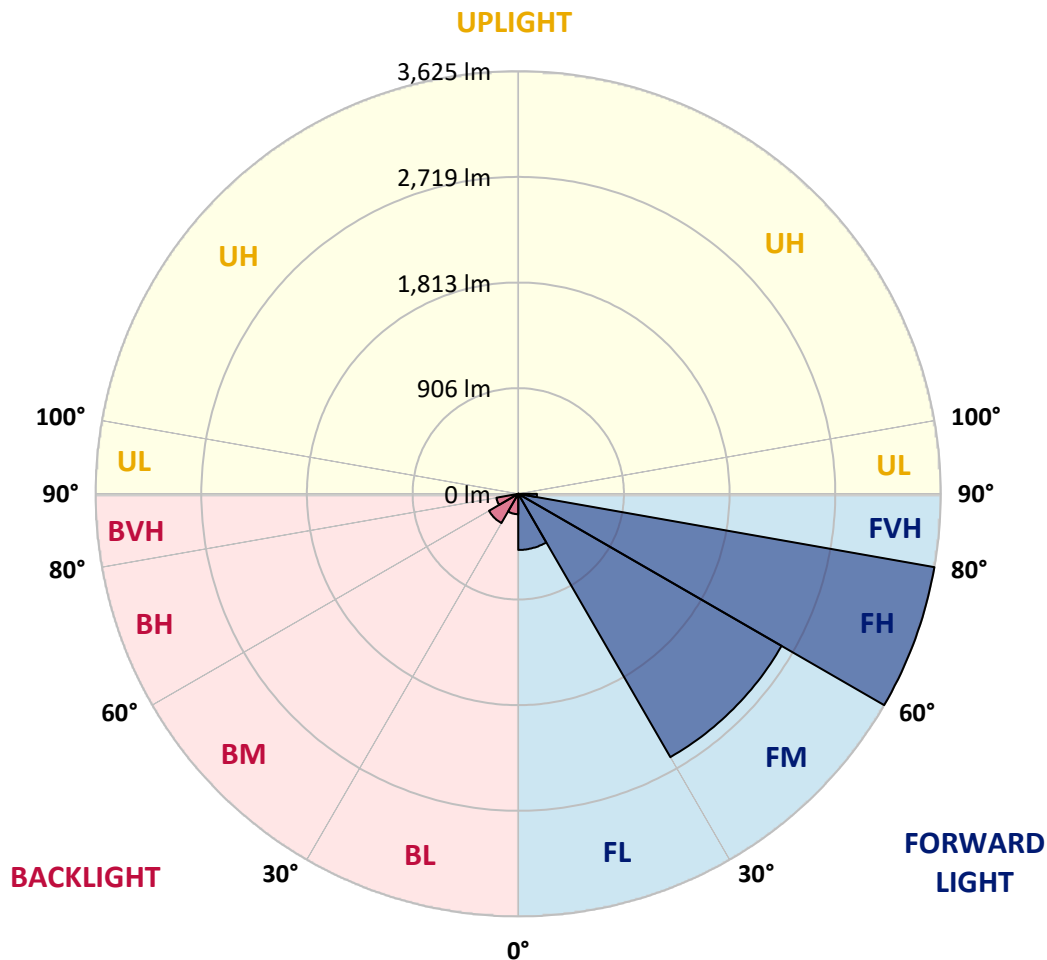


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 481.5 | 6.4 | | | |
| FM (30°-60°) | 2608.7 | 34.6 | | | |
| FH (60°-80°) | 3625.0 | 48.1 | | | G2/5000 |
| FVH (80°-90°) | 160.2 | 2.1 | | | G2/225 |
| BL (0°-30°) | 175.1 | 2.3 | B1/500 | | |
| BM (30°-60°) | 290.0 | 3.9 | B1/1000 | | |
| BH (60°-80°) | 190.1 | 2.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.5 | 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-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 84° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 |
| 2.5° | 991.7 | 996.8 | 999.3 | 986.6 | 986.6 | 976.4 | 961.2 | 956.1 | 948.4 | 940.8 | 938.3 |
| 5° | 1042.5 | 1050.2 | 1047.6 | 1032.4 | 1024.7 | 1004.4 | 984.0 | 963.7 | 943.4 | 925.6 | 925.6 |
| 7.5° | 1101.0 | 1103.6 | 1095.9 | 1070.5 | 1055.2 | 1027.3 | 996.8 | 973.9 | 948.4 | 923.0 | 917.9 |
| 10° | 1151.9 | 1149.3 | 1139.1 | 1113.7 | 1085.8 | 1050.2 | 1017.1 | 991.7 | 961.2 | 930.6 | 928.1 |
| 12.5° | 1187.5 | 1190.0 | 1177.3 | 1141.7 | 1113.7 | 1073.0 | 1040.0 | 1014.6 | 979.0 | 945.9 | 938.3 |
| 15° | 1218.0 | 1225.6 | 1210.3 | 1174.7 | 1134.1 | 1098.5 | 1073.0 | 1040.0 | 999.3 | 961.2 | 956.1 |
| 17.5° | 1245.9 | 1248.5 | 1235.8 | 1195.1 | 1156.9 | 1126.4 | 1098.5 | 1068.0 | 1027.3 | 979.0 | 973.9 |
| 20° | 1261.2 | 1268.8 | 1261.2 | 1210.3 | 1174.7 | 1151.9 | 1129.0 | 1098.5 | 1052.7 | 1006.9 | 1001.8 |
| 22.5° | 1271.4 | 1279.0 | 1276.5 | 1220.5 | 1190.0 | 1172.2 | 1151.9 | 1123.9 | 1080.7 | 1027.3 | 1022.2 |
| 25° | 1276.5 | 1281.5 | 1286.6 | 1230.7 | 1205.3 | 1197.6 | 1179.8 | 1154.4 | 1113.7 | 1057.8 | 1052.7 |
| 27.5° | 1284.1 | 1289.2 | 1294.3 | 1243.4 | 1233.2 | 1225.6 | 1220.5 | 1200.2 | 1151.9 | 1093.4 | 1085.8 |
| 30° | 1296.8 | 1304.4 | 1309.5 | 1266.3 | 1266.3 | 1273.9 | 1273.9 | 1245.9 | 1192.5 | 1131.5 | 1126.4 |
| 32.5° | 1312.1 | 1314.6 | 1324.8 | 1289.2 | 1301.9 | 1319.7 | 1314.6 | 1286.6 | 1230.7 | 1174.7 | 1167.1 |
| 35° | 1352.7 | 1352.7 | 1370.5 | 1324.8 | 1340.0 | 1355.3 | 1360.4 | 1340.0 | 1289.2 | 1233.2 | 1230.7 |
| 37.5° | 1451.9 | 1451.9 | 1467.2 | 1393.4 | 1390.9 | 1406.1 | 1423.9 | 1423.9 | 1373.1 | 1322.2 | 1317.1 |
| 40° | 1675.7 | 1675.7 | 1675.7 | 1505.3 | 1477.3 | 1495.1 | 1523.1 | 1538.4 | 1495.1 | 1459.5 | 1459.5 |
| 42.5° | 2049.5 | 2052.0 | 2013.9 | 1711.3 | 1591.8 | 1622.3 | 1652.8 | 1685.8 | 1663.0 | 1637.5 | 1632.4 |
| 45° | 2435.9 | 2423.2 | 2418.1 | 2013.9 | 1795.2 | 1779.9 | 1818.1 | 1874.0 | 1881.6 | 1866.4 | 1876.5 |
| 47.5° | 2700.4 | 2713.1 | 2720.7 | 2390.2 | 2080.0 | 1975.7 | 2011.3 | 2090.1 | 2135.9 | 2133.4 | 2148.6 |
| 50° | 2957.2 | 2964.8 | 2972.5 | 2804.6 | 2456.3 | 2222.4 | 2245.2 | 2352.0 | 2415.6 | 2435.9 | 2446.1 |
| 52.5° | 3181.0 | 3160.6 | 3193.7 | 3170.8 | 2855.5 | 2504.6 | 2504.6 | 2626.7 | 2741.1 | 2748.7 | 2746.2 |
| 55° | 3247.1 | 3259.8 | 3359.0 | 3427.6 | 3264.9 | 2850.4 | 2799.6 | 2929.2 | 3051.3 | 3114.9 | 3114.9 |
| 57.5° | 3394.6 | 3407.3 | 3526.8 | 3681.9 | 3562.4 | 3191.1 | 3114.9 | 3242.0 | 3374.2 | 3496.3 | 3514.1 |
| 60° | 3587.8 | 3590.4 | 3717.5 | 3954.0 | 3788.7 | 3498.8 | 3435.2 | 3580.2 | 3712.4 | 3920.9 | 3979.4 |
| 62.5° | 3692.1 | 3702.2 | 3877.7 | 4187.9 | 4073.5 | 3768.3 | 3753.1 | 3885.3 | 4055.7 | 4421.8 | 4475.2 |
| 65° | 3531.9 | 3598.0 | 3979.4 | 4327.7 | 4304.9 | 4020.1 | 4073.5 | 4180.3 | 4376.1 | 4912.6 | 4963.4 |
| 67.5° | 3056.4 | 3130.1 | 3811.6 | 4460.0 | 4505.7 | 4256.6 | 4312.5 | 4467.6 | 4683.7 | 5283.8 | 5212.6 |
| 70° | 2814.8 | 2875.8 | 3404.7 | 4533.7 | 4673.6 | 4521.0 | 4546.4 | 4691.4 | 4754.9 | 4973.6 | 4897.3 |
| 72.5° | 2133.4 | 2196.9 | 2880.9 | 4282.0 | 4818.5 | 4798.2 | 4734.6 | 4615.1 | 4238.8 | 3913.3 | 3727.7 |
| 75° | 943.4 | 1017.1 | 1917.2 | 3346.2 | 4460.0 | 4955.8 | 4620.2 | 3951.4 | 3043.7 | 2222.4 | 2059.6 |
| 77.5° | 417.0 | 460.2 | 742.5 | 1858.7 | 3351.3 | 4289.6 | 3653.9 | 2634.3 | 1528.2 | 826.4 | 767.9 |
| 80° | 134.8 | 139.9 | 233.9 | 650.9 | 1713.8 | 2840.2 | 2237.6 | 1266.3 | 470.4 | 193.2 | 180.5 |
| 82.5° | 53.4 | 58.5 | 111.9 | 274.6 | 709.4 | 1129.0 | 1098.5 | 457.7 | 137.3 | 50.9 | 50.9 |
| 85° | 15.3 | 17.8 | 55.9 | 144.9 | 251.7 | 317.8 | 389.0 | 152.6 | 73.7 | 15.3 | 15.3 |
| 87.5° | 5.1 | 5.1 | 20.3 | 45.8 | 48.3 | 33.1 | 73.7 | 58.5 | 45.8 | 5.1 | 5.1 |
| 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° | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 |
| 2.5° | 933.2 | 928.1 | 915.4 | 905.2 | 900.1 | 892.5 | 882.3 | 877.2 | 877.2 | 874.7 | 867.1 |
| 5° | 915.4 | 907.8 | 884.9 | 869.6 | 856.9 | 828.9 | 808.6 | 783.2 | 757.7 | 750.1 | 757.7 |
| 7.5° | 907.8 | 892.5 | 862.0 | 831.5 | 778.1 | 704.3 | 656.0 | 602.6 | 584.8 | 561.9 | 564.5 |
| 10° | 910.3 | 892.5 | 849.3 | 780.6 | 676.4 | 567.0 | 490.7 | 419.6 | 384.0 | 366.2 | 368.7 |
| 12.5° | 917.9 | 897.6 | 836.6 | 712.0 | 561.9 | 429.7 | 312.8 | 256.8 | 246.6 | 246.6 | 246.6 |
| 15° | 933.2 | 902.7 | 816.2 | 630.6 | 439.9 | 284.8 | 221.2 | 216.1 | 223.8 | 231.4 | 233.9 |
| 17.5° | 948.4 | 917.9 | 785.7 | 546.7 | 320.4 | 213.6 | 206.0 | 206.0 | 213.6 | 221.2 | 223.8 |
| 20° | 966.2 | 933.2 | 742.5 | 457.7 | 228.8 | 200.9 | 198.3 | 195.8 | 200.9 | 208.5 | 211.0 |
| 22.5° | 994.2 | 948.4 | 691.6 | 353.4 | 198.3 | 193.2 | 188.2 | 185.6 | 188.2 | 195.8 | 198.3 |
| 25° | 1019.6 | 968.8 | 638.2 | 261.9 | 185.6 | 180.5 | 178.0 | 175.4 | 175.4 | 180.5 | 183.1 |
| 27.5° | 1050.2 | 991.7 | 579.7 | 195.8 | 170.4 | 167.8 | 165.3 | 162.7 | 160.2 | 165.3 | 167.8 |
| 30° | 1088.3 | 1012.0 | 516.2 | 165.3 | 155.1 | 152.6 | 150.0 | 147.5 | 144.9 | 147.5 | 150.0 |
| 32.5° | 1136.6 | 1040.0 | 442.4 | 150.0 | 142.4 | 134.8 | 132.2 | 132.2 | 129.7 | 129.7 | 132.2 |
| 35° | 1200.2 | 1070.5 | 363.6 | 139.9 | 129.7 | 122.1 | 114.4 | 111.9 | 111.9 | 111.9 | 114.4 |
| 37.5° | 1294.3 | 1126.4 | 287.3 | 129.7 | 119.5 | 106.8 | 99.2 | 91.5 | 91.5 | 91.5 | 91.5 |
| 40° | 1423.9 | 1187.5 | 223.8 | 122.1 | 111.9 | 94.1 | 83.9 | 73.7 | 68.7 | 66.1 | 68.7 |
| 42.5° | 1624.8 | 1279.0 | 172.9 | 111.9 | 106.8 | 83.9 | 68.7 | 55.9 | 45.8 | 43.2 | 45.8 |
| 45° | 1846.0 | 1378.2 | 137.3 | 104.3 | 96.6 | 71.2 | 53.4 | 38.1 | 28.0 | 25.4 | 28.0 |
| 47.5° | 2125.7 | 1502.8 | 117.0 | 94.1 | 83.9 | 58.5 | 38.1 | 20.3 | 12.7 | 15.3 | 15.3 |
| 50° | 2395.3 | 1624.8 | 106.8 | 86.5 | 73.7 | 48.3 | 22.9 | 10.2 | 5.1 | 7.6 | 7.6 |
| 52.5° | 2692.8 | 1754.5 | 99.2 | 76.3 | 63.6 | 35.6 | 12.7 | 2.5 | 0.0 | 2.5 | 2.5 |
| 55° | 2992.8 | 1871.5 | 91.5 | 68.7 | 50.9 | 25.4 | 5.1 | 0.0 | 0.0 | 0.0 | 2.5 |
| 57.5° | 3318.3 | 1970.6 | 83.9 | 58.5 | 38.1 | 15.3 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 3590.4 | 2046.9 | 76.3 | 50.9 | 25.4 | 7.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 3839.5 | 2115.6 | 58.5 | 38.1 | 15.3 | 5.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 4004.8 | 2130.8 | 40.7 | 25.4 | 10.2 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 3931.1 | 1998.6 | 25.4 | 17.8 | 5.1 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 3455.6 | 1678.2 | 17.8 | 10.2 | 2.5 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2418.1 | 1083.2 | 15.3 | 7.6 | 2.5 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1276.5 | 391.6 | 10.2 | 5.1 | 2.5 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 452.6 | 86.5 | 5.1 | 2.5 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 99.2 | 17.8 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 28.0 | 5.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 7.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.5 | 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)