

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: INVUE

Report Number: P565388

Luminaire Tested: **MSA-SA3A-760-U-T1**

Issue Date: 8/19/2021

Test Information

Test Method: LM-79-08
Report Number: P565388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-334-1)
Test Lab: INNOVATIONS CENTER
Issue Date: 8/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA3A-760-U-T1
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS.
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10606 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B3 - U0 - G3

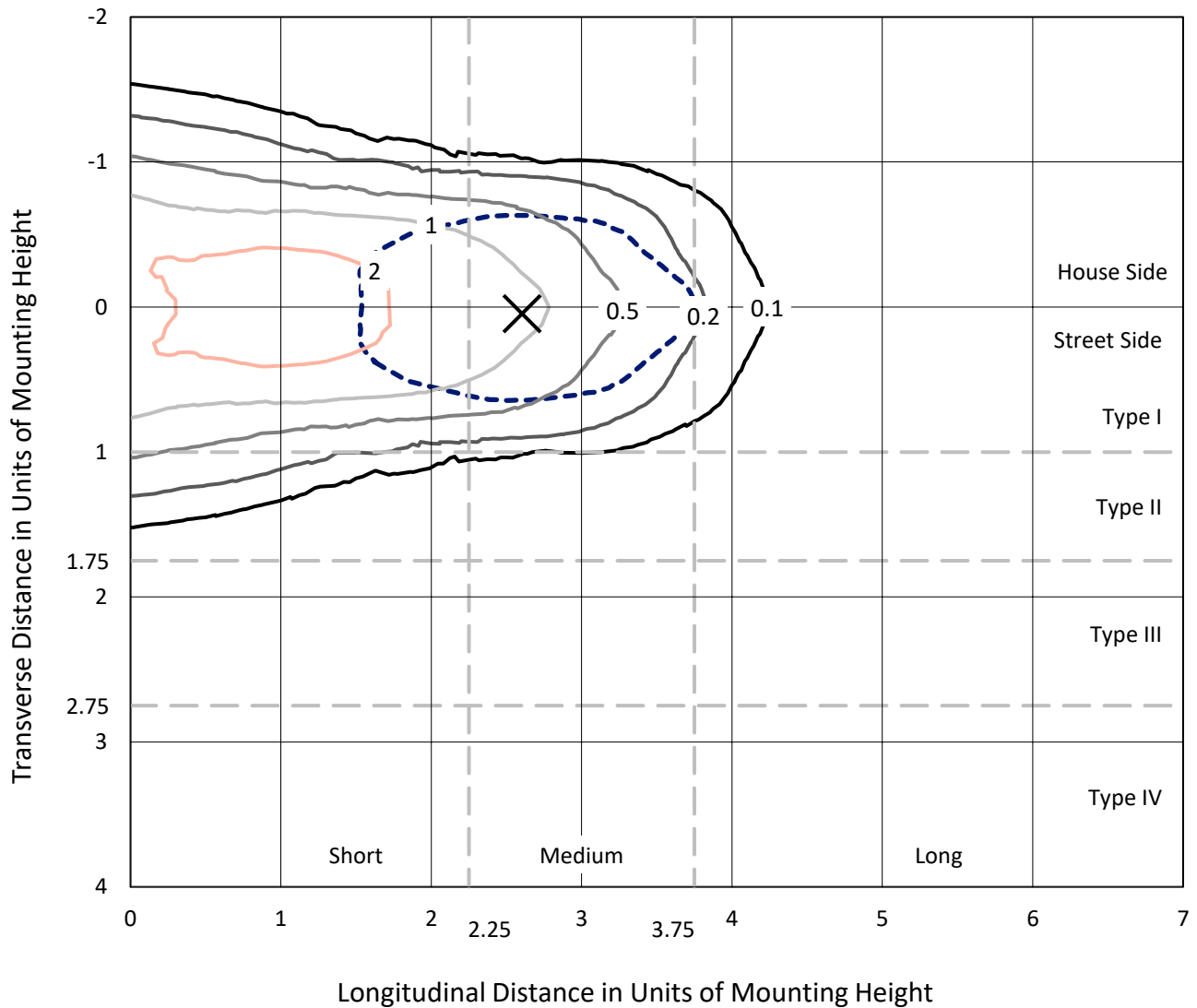
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

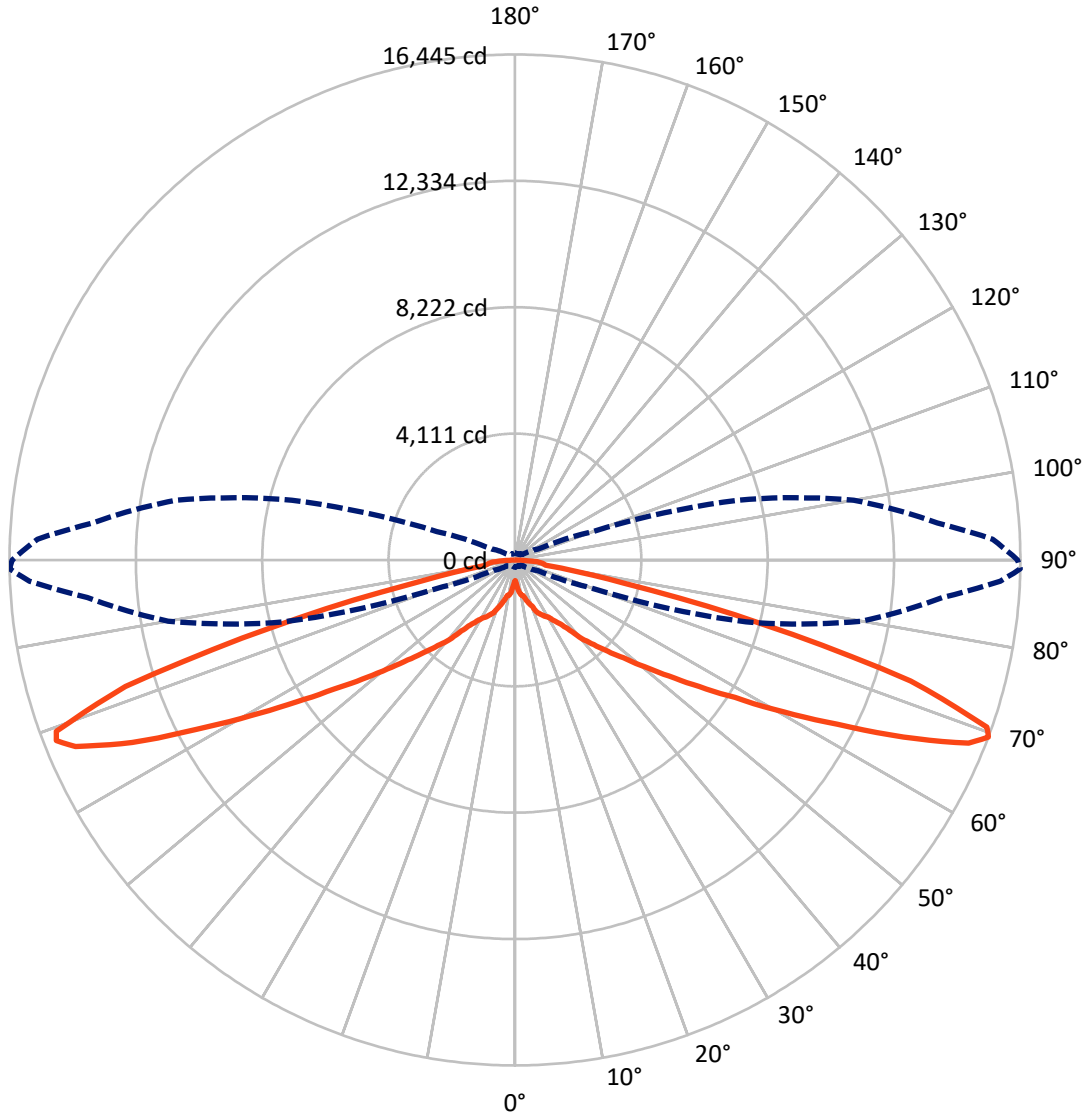
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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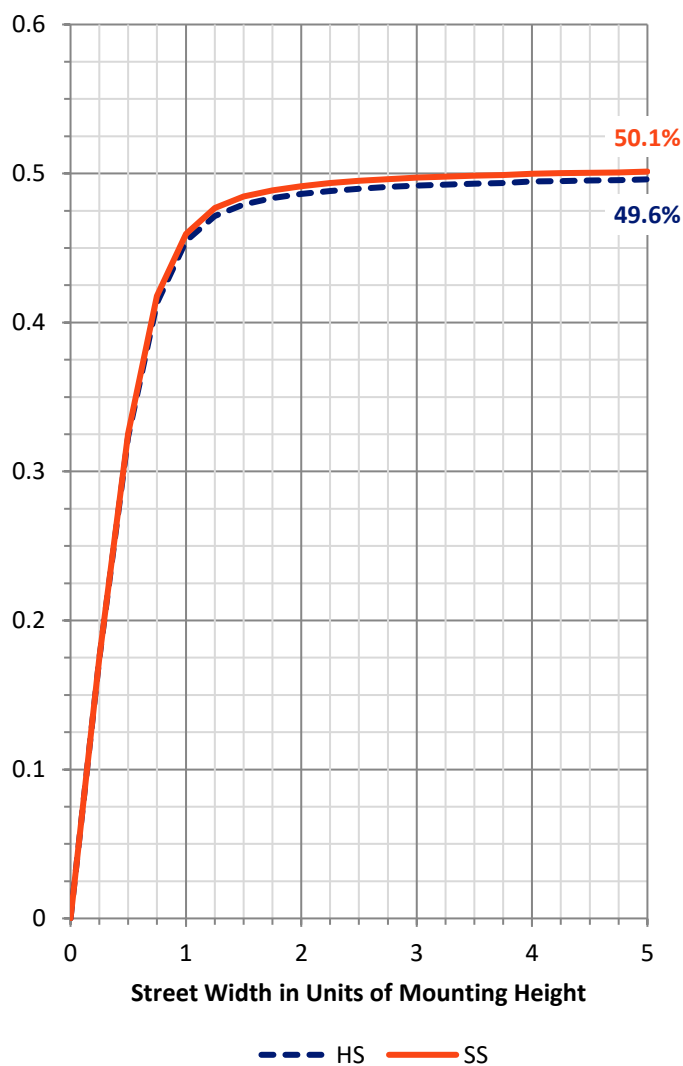
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5302.9 | 0.0 | 5302.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5303.1 | 0.0 | 5303.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10606.0 | 0.0 | 10606.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 84.4 | 0.8 |
| 10°-20° | 388.9 | 3.7 |
| 20°-30° | 775.9 | 7.3 |
| 30°-40° | 1173.5 | 11.1 |
| 40°-50° | 1703.4 | 16.1 |
| 50°-60° | 2238.0 | 21.1 |
| 60°-70° | 2730.0 | 25.7 |
| 70°-80° | 1380.2 | 13.0 |
| 80°-90° | 131.6 | 1.2 |
| 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° | 10606.0 | 100.0 |
| 0°-180° | 10606.0 | 100.0 |

Coefficient of Utilization



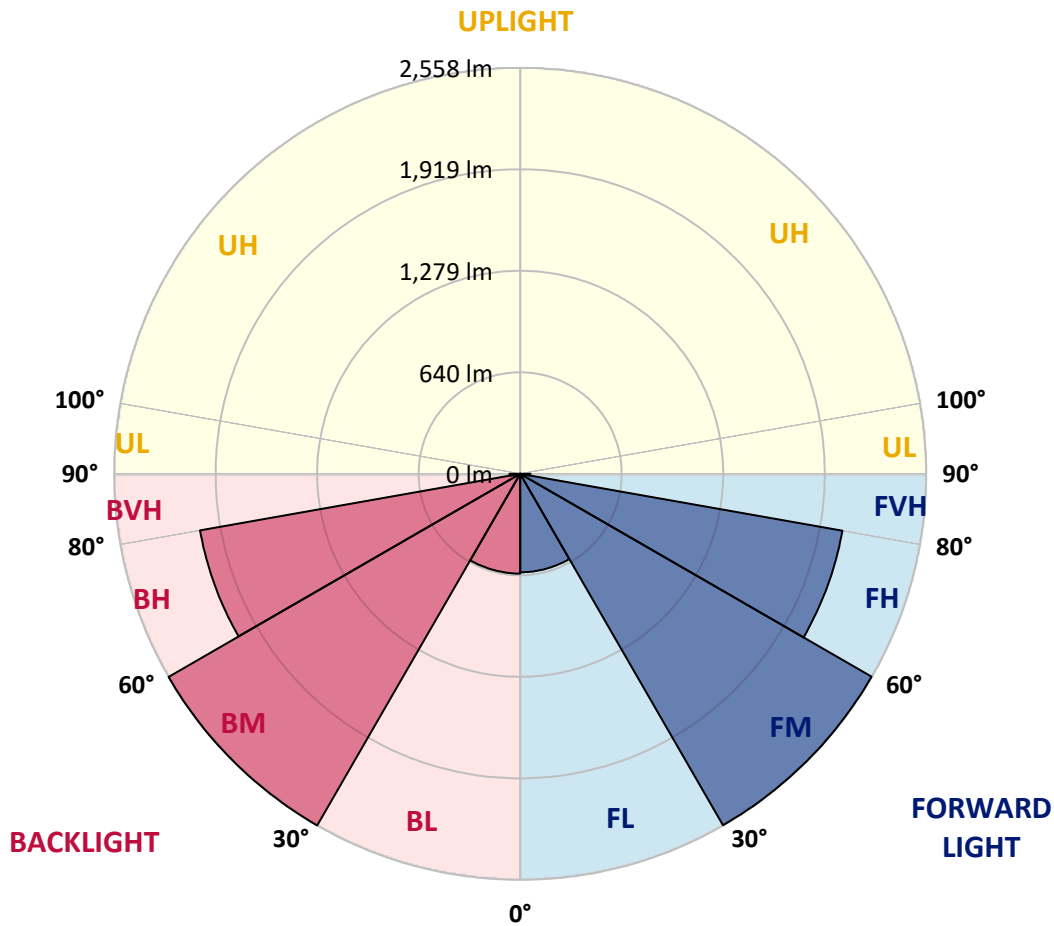
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 620.2 | 5.8 | | | |
| FM (30°-60°) | 2556.6 | 24.1 | | | |
| FH (60°-80°) | 2061.7 | 19.4 | | | G2/5000 |
| FVH (80°-90°) | 64.5 | 0.6 | | | G1/100 |
| BL (0°-30°) | 629.0 | 5.9 | B2/1000 | | |
| BM (30°-60°) | 2558.3 | 24.1 | B3/5000 | | |
| BH (60°-80°) | 2048.6 | 19.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 67.0 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type I Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 80° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 0° | 671.8 | 671.8 | 671.8 | 671.8 | 671.8 | 671.8 | 671.8 | 671.8 | 671.8 | 671.8 | 671.8 |
| 2.5° | 788.4 | 697.5 | 689.6 | 667.8 | 683.6 | 689.6 | 675.7 | 656.0 | 677.7 | 689.6 | 667.8 |
| 5° | 993.8 | 859.5 | 814.0 | 776.5 | 701.4 | 669.8 | 701.4 | 782.4 | 792.3 | 841.7 | 827.9 |
| 7.5° | 1094.6 | 1072.9 | 1015.6 | 891.1 | 770.6 | 703.4 | 788.4 | 904.9 | 964.2 | 1011.6 | 1061.0 |
| 10° | 1169.7 | 1157.8 | 1057.1 | 968.2 | 918.8 | 922.7 | 924.7 | 962.2 | 1013.6 | 1092.6 | 1120.3 |
| 12.5° | 1187.5 | 1183.5 | 1199.3 | 1179.6 | 1183.5 | 1205.3 | 1183.5 | 1173.6 | 1203.3 | 1229.0 | 1201.3 |
| 15° | 1302.1 | 1300.1 | 1306.0 | 1310.0 | 1389.0 | 1422.6 | 1389.0 | 1359.4 | 1337.6 | 1315.9 | 1361.4 |
| 17.5° | 1381.1 | 1371.2 | 1373.2 | 1410.7 | 1499.7 | 1592.5 | 1574.7 | 1535.2 | 1485.8 | 1515.5 | 1553.0 |
| 20° | 1424.6 | 1406.8 | 1418.6 | 1434.5 | 1584.6 | 1687.4 | 1699.2 | 1645.9 | 1616.2 | 1653.8 | 1685.4 |
| 22.5° | 1466.1 | 1438.4 | 1396.9 | 1412.7 | 1551.0 | 1699.2 | 1756.5 | 1742.7 | 1764.4 | 1776.3 | 1770.3 |
| 25° | 1416.7 | 1434.5 | 1389.0 | 1434.5 | 1574.7 | 1711.1 | 1825.7 | 1906.7 | 1908.7 | 1902.7 | 1946.2 |
| 27.5° | 1387.0 | 1373.2 | 1296.1 | 1412.7 | 1529.3 | 1614.3 | 1906.7 | 2043.0 | 2084.5 | 1958.1 | 2043.0 |
| 30° | 1335.7 | 1357.4 | 1252.7 | 1349.5 | 1497.7 | 1639.9 | 1999.5 | 2195.2 | 2133.9 | 2118.1 | 2137.9 |
| 32.5° | 1304.1 | 1290.2 | 1240.8 | 1294.2 | 1406.8 | 1717.0 | 2058.8 | 2284.1 | 2361.1 | 2323.6 | 2319.6 |
| 35° | 1252.7 | 1262.6 | 1185.5 | 1242.8 | 1400.9 | 1651.8 | 2098.3 | 2507.3 | 2625.9 | 2596.2 | 2572.5 |
| 37.5° | 1260.6 | 1227.0 | 1171.7 | 1213.2 | 1363.3 | 1687.4 | 2197.1 | 2722.7 | 2910.4 | 2926.2 | 2817.5 |
| 40° | 1201.3 | 1181.5 | 1098.6 | 1167.7 | 1292.2 | 1665.6 | 2220.8 | 2967.7 | 3285.8 | 3356.9 | 3200.9 |
| 42.5° | 1116.3 | 1090.7 | 1043.2 | 1120.3 | 1250.7 | 1558.9 | 2254.4 | 3262.1 | 3667.1 | 3815.3 | 3673.1 |
| 45° | 993.8 | 960.3 | 936.5 | 1039.3 | 1159.8 | 1531.3 | 2218.9 | 3507.1 | 4032.7 | 4236.2 | 4232.2 |
| 47.5° | 845.7 | 823.9 | 812.1 | 920.7 | 1084.7 | 1462.1 | 2145.8 | 3661.2 | 4287.6 | 4809.2 | 4730.1 |
| 50° | 677.7 | 661.9 | 659.9 | 774.5 | 958.3 | 1319.9 | 2062.8 | 3738.3 | 4674.8 | 5334.8 | 5403.9 |
| 52.5° | 543.4 | 531.5 | 529.5 | 622.4 | 802.2 | 1128.2 | 1888.9 | 3797.6 | 5044.3 | 5931.5 | 6287.1 |
| 55° | 424.8 | 412.9 | 414.9 | 492.0 | 638.2 | 922.7 | 1624.1 | 3730.4 | 5368.3 | 6542.0 | 7215.7 |
| 57.5° | 347.7 | 335.9 | 337.9 | 381.3 | 488.0 | 705.4 | 1294.2 | 3584.2 | 5514.6 | 7296.8 | 8298.5 |
| 60° | 306.3 | 294.4 | 288.5 | 308.2 | 375.4 | 531.5 | 962.2 | 3015.1 | 5538.3 | 7923.1 | 9474.1 |
| 62.5° | 284.5 | 272.7 | 266.7 | 272.7 | 310.2 | 407.0 | 693.5 | 2388.8 | 5401.9 | 8458.5 | 10551.0 |
| 65° | 264.8 | 254.9 | 247.0 | 252.9 | 272.7 | 324.0 | 505.8 | 1636.0 | 4688.7 | 8703.6 | 11333.4 |
| 67.5° | 243.0 | 235.1 | 227.2 | 235.1 | 249.0 | 272.7 | 393.2 | 1035.3 | 3515.0 | 8385.4 | 11659.4 |
| 69° | 231.2 | 219.3 | 215.4 | 221.3 | 235.1 | 250.9 | 339.8 | 825.9 | 2673.3 | 7780.8 | 11461.8 |
| 70° | 219.3 | 211.4 | 205.5 | 215.4 | 227.2 | 239.1 | 306.3 | 701.4 | 2096.4 | 7004.3 | 10971.8 |
| 72.5° | 193.6 | 187.7 | 183.8 | 193.6 | 203.5 | 211.4 | 250.9 | 499.9 | 1215.1 | 4769.7 | 8701.6 |
| 75° | 169.9 | 164.0 | 162.0 | 169.9 | 177.8 | 181.8 | 211.4 | 343.8 | 717.2 | 2495.5 | 5220.2 |
| 77.5° | 142.3 | 134.4 | 136.3 | 146.2 | 152.1 | 154.1 | 177.8 | 247.0 | 422.8 | 1130.2 | 2418.4 |
| 80° | 104.7 | 104.7 | 112.6 | 120.5 | 120.5 | 120.5 | 142.3 | 179.8 | 256.9 | 519.6 | 1003.7 |
| 82.5° | 73.1 | 75.1 | 77.1 | 88.9 | 90.9 | 83.0 | 108.7 | 130.4 | 160.0 | 227.2 | 347.7 |
| 85° | 41.5 | 43.5 | 45.4 | 53.3 | 55.3 | 49.4 | 71.1 | 83.0 | 92.9 | 112.6 | 181.8 |
| 87.5° | 15.8 | 17.8 | 23.7 | 27.7 | 29.6 | 21.7 | 33.6 | 39.5 | 39.5 | 47.4 | 81.0 |
| 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):

| | 85° | 87.5° | 89° | 90° | 92.5° | 95° | 100° | 105° | 110° | 115° | 125° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 671.8 | 671.8 | 671.8 | 671.8 | 671.8 | 671.8 | 671.8 | 671.8 | 671.8 | 671.8 | 671.8 |
| 2.5° | 713.3 | 727.1 | 752.8 | 758.7 | 737.0 | 713.3 | 659.9 | 693.5 | 707.3 | 681.7 | 689.6 |
| 5° | 883.2 | 912.8 | 944.4 | 906.9 | 883.2 | 867.4 | 841.7 | 843.7 | 829.9 | 784.4 | 709.3 |
| 7.5° | 1074.9 | 1041.3 | 1065.0 | 1090.7 | 1053.1 | 1055.1 | 1078.8 | 1029.4 | 991.9 | 914.8 | 774.5 |
| 10° | 1163.8 | 1163.8 | 1169.7 | 1169.7 | 1153.9 | 1153.9 | 1151.9 | 1072.9 | 1027.4 | 993.8 | 954.3 |
| 12.5° | 1169.7 | 1167.7 | 1191.4 | 1173.6 | 1177.6 | 1181.5 | 1191.4 | 1227.0 | 1215.1 | 1171.7 | 1207.2 |
| 15° | 1333.7 | 1325.8 | 1333.7 | 1331.7 | 1337.6 | 1355.4 | 1347.5 | 1339.6 | 1341.6 | 1373.2 | 1426.6 |
| 17.5° | 1487.8 | 1491.8 | 1483.9 | 1497.7 | 1497.7 | 1509.5 | 1537.2 | 1509.5 | 1485.8 | 1545.1 | 1586.6 |
| 20° | 1665.6 | 1651.8 | 1620.2 | 1643.9 | 1649.8 | 1651.8 | 1697.2 | 1663.7 | 1630.1 | 1651.8 | 1701.2 |
| 22.5° | 1845.4 | 1843.5 | 1847.4 | 1849.4 | 1857.3 | 1827.6 | 1766.4 | 1756.5 | 1778.3 | 1748.6 | 1754.5 |
| 25° | 1956.1 | 1958.1 | 1967.9 | 1969.9 | 1936.3 | 1967.9 | 1989.7 | 1924.5 | 1924.5 | 1918.5 | 1879.0 |
| 27.5° | 2090.4 | 2060.8 | 2072.7 | 2088.5 | 2074.6 | 2082.5 | 2056.8 | 1962.0 | 2062.8 | 2076.6 | 1918.5 |
| 30° | 2181.3 | 2167.5 | 2153.7 | 2169.5 | 2183.3 | 2218.9 | 2145.8 | 2135.9 | 2143.8 | 2216.9 | 2009.4 |
| 32.5° | 2373.0 | 2392.7 | 2367.0 | 2341.4 | 2367.0 | 2359.1 | 2327.5 | 2313.7 | 2412.5 | 2315.7 | 2072.7 |
| 35° | 2550.8 | 2558.7 | 2560.7 | 2556.7 | 2572.5 | 2544.9 | 2544.9 | 2596.2 | 2625.9 | 2521.2 | 2092.4 |
| 37.5° | 2979.6 | 2951.9 | 2894.6 | 2866.9 | 2916.3 | 2957.8 | 2835.3 | 2896.6 | 2884.7 | 2706.9 | 2240.6 |
| 40° | 3287.8 | 3351.0 | 3368.8 | 3360.9 | 3368.8 | 3250.2 | 3275.9 | 3321.4 | 3268.0 | 2973.6 | 2189.2 |
| 42.5° | 3738.3 | 3777.8 | 3764.0 | 3746.2 | 3754.1 | 3732.4 | 3655.3 | 3823.2 | 3631.6 | 3272.0 | 2268.3 |
| 45° | 4149.3 | 4238.2 | 4244.1 | 4182.8 | 4232.2 | 4155.2 | 4186.8 | 4246.1 | 4052.4 | 3495.3 | 2246.5 |
| 47.5° | 4639.3 | 4823.0 | 4753.9 | 4753.9 | 4803.3 | 4637.3 | 4712.4 | 4791.4 | 4277.7 | 3645.4 | 2128.0 |
| 50° | 5364.4 | 5463.2 | 5459.2 | 5441.4 | 5463.2 | 5374.3 | 5362.4 | 5352.5 | 4623.5 | 3787.7 | 2054.9 |
| 52.5° | 6184.4 | 6318.7 | 6267.3 | 6287.1 | 6316.7 | 6148.8 | 6281.2 | 5919.6 | 5056.2 | 3841.0 | 1888.9 |
| 55° | 7231.6 | 7324.4 | 7273.0 | 7172.3 | 7306.6 | 7199.9 | 7243.4 | 6538.0 | 5356.5 | 3688.9 | 1612.3 |
| 57.5° | 8478.3 | 8525.7 | 8440.8 | 8430.9 | 8519.8 | 8405.2 | 8332.1 | 7233.5 | 5512.6 | 3574.3 | 1288.2 |
| 60° | 9934.5 | 10082.7 | 10029.3 | 9944.4 | 10025.4 | 9924.6 | 9371.4 | 7824.3 | 5481.0 | 3038.8 | 997.8 |
| 62.5° | 11681.1 | 11831.3 | 11772.0 | 11714.7 | 11766.1 | 11503.3 | 10347.4 | 8290.6 | 5338.7 | 2408.5 | 729.1 |
| 65° | 13123.5 | 13801.2 | 13890.1 | 13892.1 | 13643.1 | 13034.6 | 11125.9 | 8472.4 | 4587.9 | 1681.4 | 533.5 |
| 67.5° | 14071.9 | 15480.7 | 15919.3 | 15761.2 | 15190.2 | 13801.2 | 11440.1 | 8116.7 | 3542.7 | 1063.0 | 399.1 |
| 69° | 13963.2 | 15810.6 | 16444.9 | 16356.0 | 15553.8 | 13789.4 | 11195.1 | 7518.1 | 2706.9 | 845.7 | 337.9 |
| 70° | 13461.4 | 15539.9 | 16292.7 | 16332.2 | 15322.6 | 13259.8 | 10758.4 | 6830.5 | 2189.2 | 721.2 | 310.2 |
| 72.5° | 10742.6 | 12805.4 | 13467.3 | 13726.1 | 12724.4 | 10618.1 | 8822.1 | 4819.1 | 1268.5 | 503.8 | 250.9 |
| 75° | 6654.6 | 7765.0 | 8314.3 | 8464.5 | 7857.9 | 6613.1 | 5354.5 | 2681.2 | 772.6 | 355.7 | 211.4 |
| 77.5° | 2983.5 | 3305.6 | 3621.7 | 3621.7 | 3384.6 | 3019.1 | 2454.0 | 1296.1 | 438.6 | 252.9 | 177.8 |
| 80° | 999.8 | 1037.3 | 1009.7 | 1019.5 | 980.0 | 942.5 | 985.9 | 559.2 | 270.7 | 189.7 | 144.2 |
| 82.5° | 679.7 | 853.6 | 906.9 | 906.9 | 851.6 | 671.8 | 379.4 | 256.9 | 166.0 | 136.3 | 110.6 |
| 85° | 553.2 | 675.7 | 725.1 | 746.9 | 703.4 | 567.1 | 199.6 | 124.5 | 98.8 | 86.9 | 75.1 |
| 87.5° | 185.7 | 173.9 | 164.0 | 160.0 | 167.9 | 175.8 | 98.8 | 53.3 | 45.4 | 41.5 | 39.5 |
| 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):

| | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|
| 0° | 671.8 | 671.8 | 671.8 | 671.8 | 671.8 | 671.8 |
| 2.5° | 703.4 | 679.7 | 689.6 | 699.4 | 770.6 | 823.9 |
| 5° | 699.4 | 733.0 | 808.1 | 903.0 | 946.4 | 1053.1 |
| 7.5° | 719.2 | 841.7 | 982.0 | 1080.8 | 1120.3 | 1153.9 |
| 10° | 962.2 | 984.0 | 1031.4 | 1126.2 | 1205.3 | 1219.1 |
| 12.5° | 1242.8 | 1236.9 | 1203.3 | 1246.8 | 1207.2 | 1234.9 |
| 15° | 1462.1 | 1396.9 | 1351.5 | 1345.5 | 1331.7 | 1331.7 |
| 17.5° | 1582.6 | 1525.3 | 1462.1 | 1446.3 | 1404.8 | 1438.4 |
| 20° | 1724.9 | 1626.1 | 1468.0 | 1452.2 | 1438.4 | 1406.8 |
| 22.5° | 1697.2 | 1598.5 | 1434.5 | 1414.7 | 1487.8 | 1483.9 |
| 25° | 1730.8 | 1598.5 | 1442.4 | 1420.6 | 1454.2 | 1454.2 |
| 27.5° | 1647.8 | 1539.2 | 1426.6 | 1296.1 | 1398.9 | 1422.6 |
| 30° | 1626.1 | 1503.6 | 1373.2 | 1256.6 | 1361.4 | 1339.6 |
| 32.5° | 1740.7 | 1414.7 | 1286.3 | 1250.7 | 1327.8 | 1312.0 |
| 35° | 1651.8 | 1398.9 | 1264.5 | 1199.3 | 1290.2 | 1274.4 |
| 37.5° | 1689.3 | 1379.1 | 1227.0 | 1171.7 | 1244.8 | 1268.5 |
| 40° | 1681.4 | 1286.3 | 1183.5 | 1112.4 | 1185.5 | 1197.4 |
| 42.5° | 1549.1 | 1215.1 | 1110.4 | 1039.3 | 1076.8 | 1116.3 |
| 45° | 1509.5 | 1171.7 | 1039.3 | 940.5 | 942.5 | 987.9 |
| 47.5° | 1436.4 | 1072.9 | 908.9 | 818.0 | 818.0 | 855.5 |
| 50° | 1313.9 | 940.5 | 760.7 | 677.7 | 675.7 | 705.4 |
| 52.5° | 1132.2 | 812.1 | 642.1 | 551.3 | 545.3 | 575.0 |
| 55° | 926.7 | 654.0 | 505.8 | 446.5 | 434.7 | 446.5 |
| 57.5° | 721.2 | 509.8 | 399.1 | 351.7 | 349.7 | 359.6 |
| 60° | 559.2 | 399.1 | 318.1 | 290.4 | 294.4 | 310.2 |
| 62.5° | 422.8 | 318.1 | 270.7 | 260.8 | 266.7 | 282.5 |
| 65° | 335.9 | 274.6 | 247.0 | 241.1 | 247.0 | 262.8 |
| 67.5° | 272.7 | 249.0 | 229.2 | 221.3 | 225.2 | 241.1 |
| 69° | 250.9 | 235.1 | 219.3 | 209.4 | 213.4 | 225.2 |
| 70° | 239.1 | 227.2 | 211.4 | 201.5 | 205.5 | 217.3 |
| 72.5° | 209.4 | 203.5 | 191.7 | 181.8 | 183.8 | 193.6 |
| 75° | 183.8 | 179.8 | 171.9 | 160.0 | 160.0 | 171.9 |
| 77.5° | 154.1 | 156.1 | 148.2 | 136.3 | 134.4 | 140.3 |
| 80° | 122.5 | 126.5 | 122.5 | 110.6 | 106.7 | 106.7 |
| 82.5° | 88.9 | 96.8 | 92.9 | 81.0 | 79.0 | 79.0 |
| 85° | 55.3 | 61.3 | 59.3 | 51.4 | 51.4 | 45.4 |
| 87.5° | 25.7 | 33.6 | 31.6 | 27.7 | 25.7 | 17.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)