

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: P452506

Luminaire Tested: **GALN-SA3C-722-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-722-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11110 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

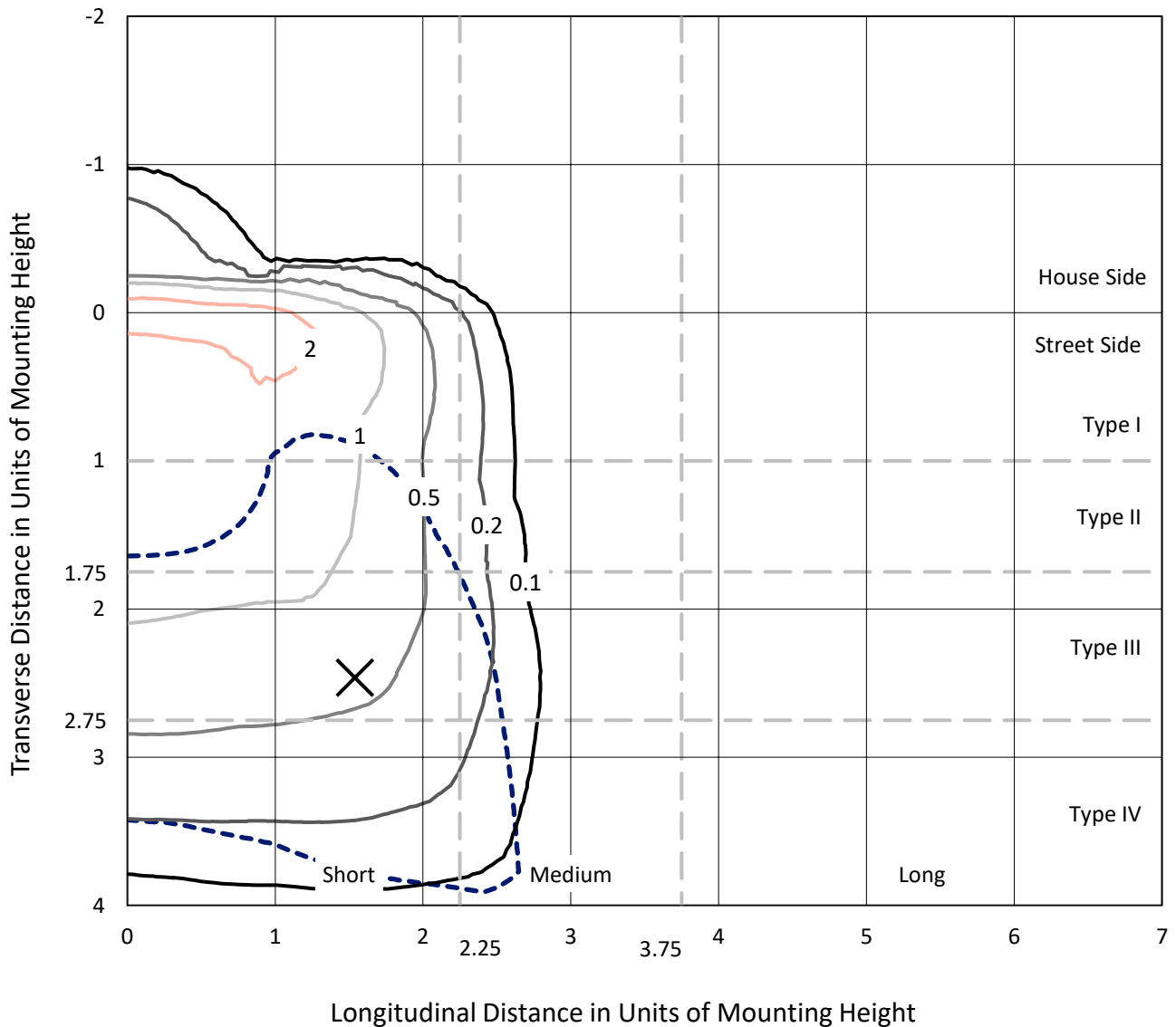
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

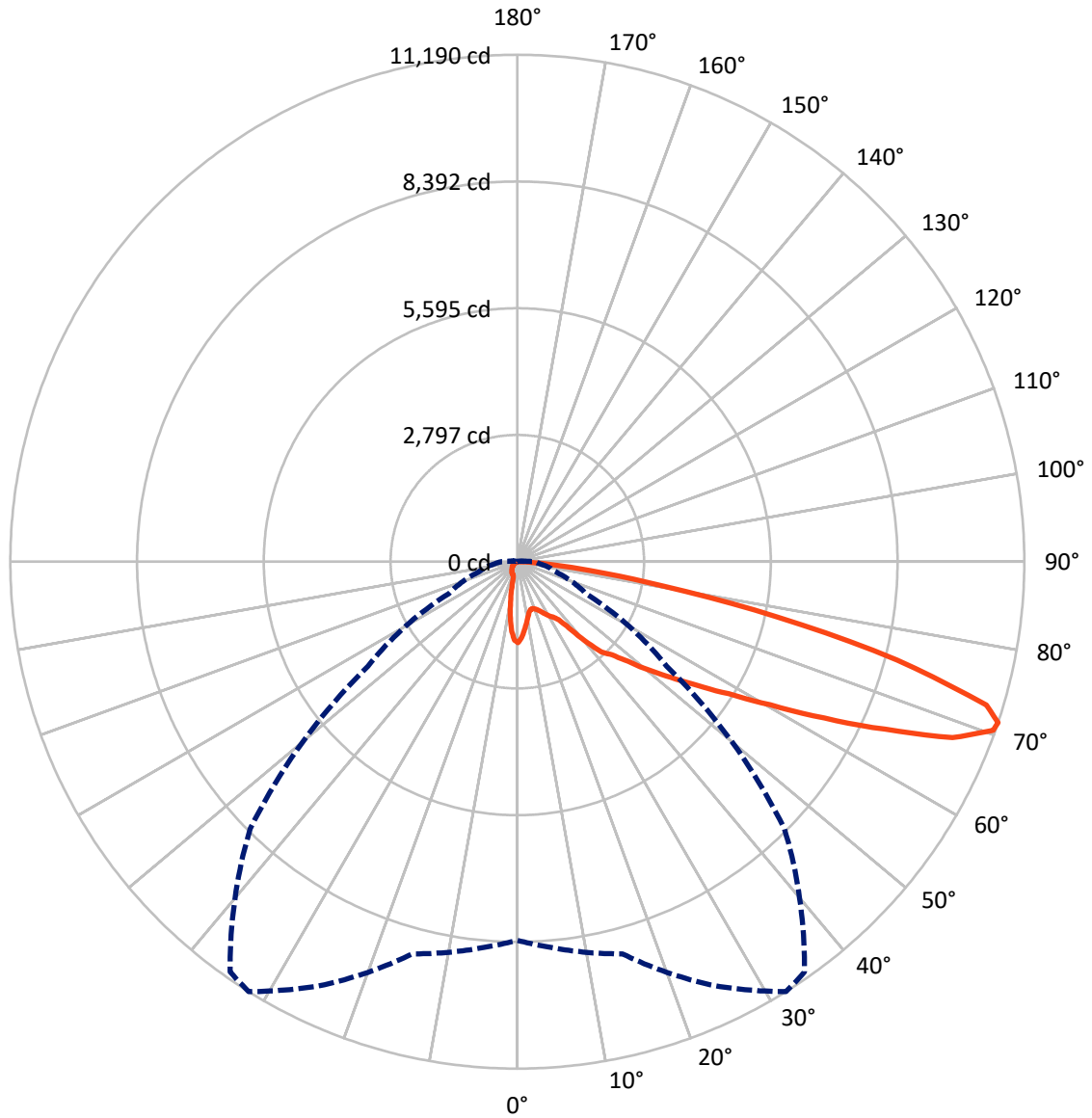
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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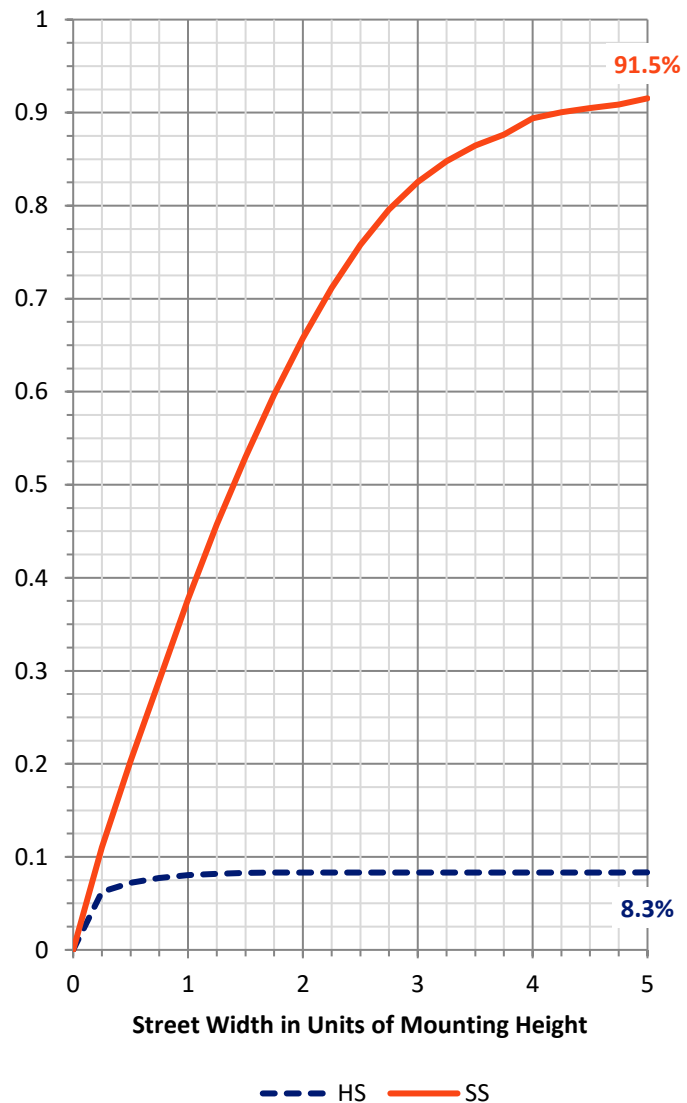
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 930.6 | 0.0 | 930.6 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 10179.4 | 0.0 | 10179.4 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 11110.0 | 0.0 | 11110.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 145.3 | 1.3 |
| 10°-20° | 315.3 | 2.8 |
| 20°-30° | 490.5 | 4.4 |
| 30°-40° | 817.2 | 7.4 |
| 40°-50° | 1520.1 | 13.7 |
| 50°-60° | 2440.6 | 22.0 |
| 60°-70° | 3282.7 | 29.5 |
| 70°-80° | 1947.7 | 17.5 |
| 80°-90° | 150.6 | 1.4 |
| 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° | 11110.0 | 100.0 |
| 0°-180° | 11110.0 | 100.0 |

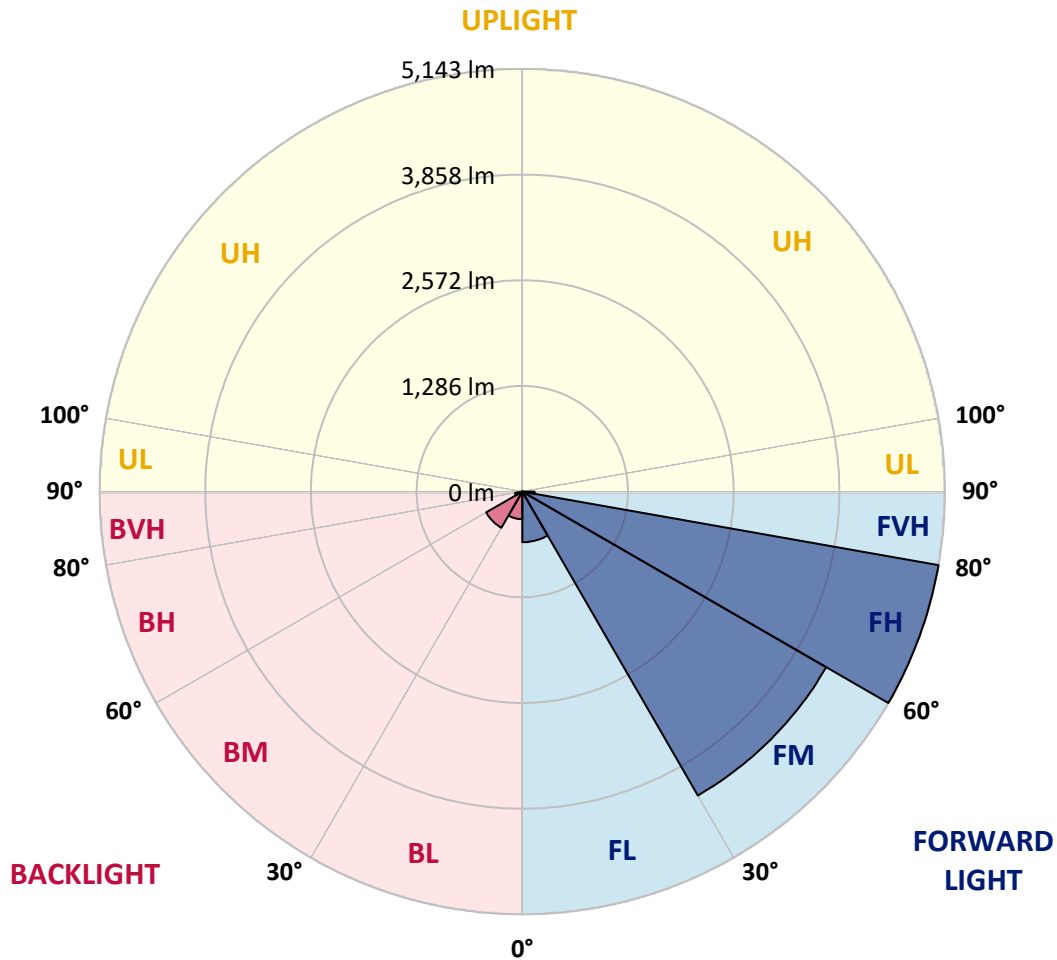


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 615.8 | 5.5 | | | |
| FM | (30°-60°) | 4270.3 | 38.4 | | | |
| FH | (60°-80°) | 5143.4 | 46.3 | | | G3/7500 |
| FVH | (80°-90°) | 150.0 | 1.3 | | | G2/225 |
| BL | (0°-30°) | 335.3 | 3.0 | B1/500 | | |
| BM | (30°-60°) | 507.7 | 4.6 | B1/1000 | | |
| BH | (60°-80°) | 87.0 | 0.8 | 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: B1-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 32° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 1786.7 | 1786.7 | 1786.7 | 1786.7 | 1786.7 | 1786.7 | 1786.7 | 1786.7 | 1786.7 | 1786.7 | 1786.7 |
| 2.5° | 1657.0 | 1674.1 | 1671.5 | 1677.5 | 1692.0 | 1698.0 | 1714.2 | 1732.1 | 1756.8 | 1773.9 | 1785.0 |
| 5° | 1483.9 | 1496.7 | 1498.4 | 1528.3 | 1542.8 | 1559.0 | 1606.7 | 1658.7 | 1716.7 | 1762.8 | 1793.5 |
| 7.5° | 1298.8 | 1305.7 | 1319.3 | 1358.5 | 1395.2 | 1411.4 | 1483.9 | 1574.3 | 1665.6 | 1751.7 | 1807.1 |
| 10° | 1146.2 | 1153.9 | 1178.6 | 1220.4 | 1254.5 | 1275.8 | 1376.5 | 1489.9 | 1617.8 | 1745.7 | 1826.7 |
| 12.5° | 1059.2 | 1063.5 | 1072.8 | 1110.4 | 1153.9 | 1176.9 | 1285.2 | 1414.8 | 1579.4 | 1748.3 | 1860.0 |
| 15° | 1053.2 | 1051.5 | 1040.4 | 1055.8 | 1095.0 | 1118.9 | 1224.7 | 1363.7 | 1545.3 | 1756.8 | 1899.2 |
| 17.5° | 1084.8 | 1080.5 | 1054.1 | 1054.1 | 1086.5 | 1106.1 | 1199.1 | 1336.4 | 1528.3 | 1776.4 | 1954.7 |
| 20° | 1133.4 | 1126.6 | 1083.1 | 1079.7 | 1111.2 | 1131.7 | 1214.4 | 1338.1 | 1531.7 | 1813.1 | 2028.9 |
| 22.5° | 1194.8 | 1187.1 | 1121.5 | 1123.2 | 1157.3 | 1177.7 | 1258.8 | 1368.8 | 1553.0 | 1858.3 | 2108.2 |
| 25° | 1275.0 | 1266.4 | 1188.8 | 1185.4 | 1221.2 | 1239.1 | 1324.4 | 1423.4 | 1582.8 | 1914.6 | 2212.2 |
| 27.5° | 1381.6 | 1363.7 | 1270.7 | 1265.6 | 1304.0 | 1327.0 | 1403.7 | 1496.7 | 1635.7 | 1992.2 | 2352.1 |
| 30° | 1469.4 | 1449.8 | 1361.1 | 1347.5 | 1388.4 | 1406.3 | 1485.6 | 1595.6 | 1739.8 | 2127.8 | 2545.7 |
| 32.5° | 1584.5 | 1555.5 | 1451.5 | 1415.7 | 1459.2 | 1482.2 | 1604.2 | 1779.8 | 1894.1 | 2271.1 | 2775.9 |
| 35° | 1843.8 | 1825.9 | 1698.8 | 1573.5 | 1570.9 | 1599.9 | 1779.0 | 1965.8 | 2052.7 | 2494.5 | 3089.8 |
| 37.5° | 2214.8 | 2202.0 | 2067.2 | 1899.2 | 1850.6 | 1837.0 | 1991.3 | 2170.4 | 2306.0 | 2801.5 | 3454.8 |
| 40° | 2645.5 | 2615.6 | 2491.9 | 2349.5 | 2286.4 | 2246.3 | 2242.1 | 2474.9 | 2636.9 | 3218.5 | 3835.1 |
| 42.5° | 2954.2 | 2899.6 | 2749.5 | 2739.3 | 2725.6 | 2683.8 | 2562.7 | 2920.1 | 3064.2 | 3667.1 | 4241.9 |
| 45° | 3278.2 | 3195.5 | 2972.1 | 2933.7 | 2928.6 | 2926.0 | 3047.1 | 3447.1 | 3529.8 | 4153.2 | 4659.8 |
| 47.5° | 3529.8 | 3464.2 | 3280.8 | 3263.7 | 3285.1 | 3343.1 | 3687.6 | 4006.6 | 3989.5 | 4586.5 | 5010.3 |
| 50° | 3865.0 | 3815.5 | 3611.7 | 3644.1 | 3754.1 | 3848.8 | 4409.9 | 4616.3 | 4367.3 | 4927.6 | 5265.3 |
| 52.5° | 4260.7 | 4169.4 | 3980.1 | 4068.0 | 4236.8 | 4394.6 | 5176.6 | 5150.2 | 4632.5 | 5184.3 | 5455.5 |
| 55° | 4603.5 | 4538.7 | 4473.9 | 4565.2 | 4817.6 | 5014.6 | 5869.1 | 5550.2 | 4825.3 | 5390.7 | 5539.1 |
| 57.5° | 5183.5 | 5168.1 | 5101.6 | 5194.5 | 5500.7 | 5705.4 | 6489.1 | 5860.6 | 4948.9 | 5498.1 | 5441.0 |
| 60° | 6041.4 | 6016.7 | 5893.0 | 6011.5 | 6410.7 | 6732.2 | 7060.5 | 6139.5 | 4977.1 | 5456.4 | 5158.7 |
| 62.5° | 7073.3 | 6988.9 | 6883.1 | 7058.0 | 7605.5 | 7747.0 | 7598.6 | 6304.9 | 4872.2 | 5123.8 | 4478.2 |
| 65° | 8037.0 | 7950.0 | 7952.6 | 8321.0 | 8917.1 | 9013.5 | 8226.3 | 6280.2 | 4565.2 | 4290.5 | 3303.0 |
| 67.5° | 8774.7 | 8760.2 | 8864.2 | 9583.2 | 10362.6 | 10296.1 | 8787.5 | 5910.1 | 3655.2 | 2781.1 | 1755.1 |
| 70° | 8812.2 | 8840.4 | 9138.8 | 10352.4 | 11143.8 | 11038.1 | 8739.7 | 4803.9 | 2278.7 | 1279.2 | 691.6 |
| 71° | 8358.5 | 8547.8 | 8960.6 | 10328.5 | 11189.9 | 11052.6 | 8337.2 | 4023.6 | 1671.5 | 892.1 | 498.9 |
| 72.5° | 7122.8 | 7222.5 | 8114.6 | 9720.5 | 10825.7 | 10532.3 | 7316.4 | 2820.3 | 1070.3 | 545.8 | 286.5 |
| 75° | 3923.0 | 4168.6 | 5434.2 | 7625.9 | 8658.7 | 8401.1 | 4768.1 | 1339.8 | 533.9 | 298.5 | 118.5 |
| 77.5° | 1867.7 | 1819.9 | 2651.4 | 4535.3 | 5870.8 | 5857.2 | 2402.4 | 595.3 | 311.3 | 202.1 | 59.7 |
| 80° | 533.9 | 600.4 | 1014.9 | 2155.9 | 3259.5 | 3295.3 | 922.8 | 287.4 | 215.8 | 157.8 | 30.7 |
| 82.5° | 161.2 | 164.6 | 372.7 | 953.5 | 1621.2 | 1528.3 | 346.2 | 146.7 | 155.2 | 125.4 | 17.9 |
| 85° | 28.1 | 35.0 | 110.0 | 336.0 | 618.3 | 469.1 | 87.0 | 69.9 | 102.3 | 82.7 | 10.2 |
| 87.5° | 1.7 | 2.6 | 36.7 | 38.4 | 54.6 | 31.6 | 15.4 | 10.2 | 22.2 | 22.2 | 6.0 |
| 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° | 1786.7 | 1786.7 | 1786.7 | 1786.7 | 1786.7 | 1786.7 | 1786.7 | 1786.7 | 1786.7 | 1786.7 | 1786.7 |
| 2.5° | 1792.6 | 1797.7 | 1794.3 | 1786.7 | 1773.9 | 1758.5 | 1738.1 | 1721.0 | 1706.5 | 1698.8 | 1708.2 |
| 5° | 1803.7 | 1810.5 | 1793.5 | 1755.1 | 1697.1 | 1634.0 | 1562.4 | 1506.9 | 1463.4 | 1449.8 | 1444.7 |
| 7.5° | 1820.8 | 1825.0 | 1779.0 | 1693.7 | 1570.9 | 1421.7 | 1291.2 | 1181.2 | 1095.9 | 1070.3 | 1032.8 |
| 10° | 1842.9 | 1840.4 | 1753.4 | 1594.8 | 1379.0 | 1154.7 | 952.6 | 802.5 | 689.1 | 648.1 | 644.7 |
| 12.5° | 1877.1 | 1863.4 | 1721.0 | 1460.0 | 1150.5 | 857.1 | 607.2 | 475.0 | 403.4 | 379.5 | 374.4 |
| 15° | 1919.7 | 1887.3 | 1669.8 | 1302.3 | 881.0 | 553.5 | 374.4 | 334.3 | 324.9 | 323.2 | 321.5 |
| 17.5° | 1970.0 | 1918.8 | 1602.5 | 1108.7 | 619.1 | 359.0 | 313.0 | 312.1 | 313.0 | 311.3 | 310.4 |
| 20° | 2038.2 | 1952.1 | 1522.3 | 879.3 | 409.4 | 302.8 | 298.5 | 298.5 | 299.3 | 298.5 | 298.5 |
| 22.5° | 2110.7 | 1991.3 | 1423.4 | 671.2 | 308.7 | 287.4 | 286.5 | 288.3 | 290.0 | 289.1 | 289.1 |
| 25° | 2200.3 | 2042.5 | 1292.9 | 459.7 | 276.3 | 274.6 | 275.5 | 278.9 | 282.3 | 283.1 | 282.3 |
| 27.5° | 2329.9 | 2105.6 | 1153.0 | 316.4 | 253.3 | 255.0 | 263.5 | 272.1 | 277.2 | 278.0 | 278.0 |
| 30° | 2475.7 | 2175.5 | 970.5 | 256.7 | 234.5 | 234.5 | 244.8 | 261.0 | 272.1 | 273.8 | 274.6 |
| 32.5° | 2663.4 | 2256.6 | 768.4 | 231.1 | 216.6 | 214.9 | 224.3 | 243.9 | 264.4 | 270.3 | 270.3 |
| 35° | 2895.3 | 2352.1 | 571.4 | 214.9 | 203.8 | 199.6 | 204.7 | 220.9 | 247.3 | 264.4 | 266.1 |
| 37.5° | 3167.4 | 2442.5 | 417.9 | 200.4 | 191.9 | 185.9 | 189.3 | 202.1 | 223.4 | 249.0 | 255.8 |
| 40° | 3419.0 | 2522.6 | 312.1 | 188.5 | 179.9 | 175.7 | 178.2 | 184.2 | 202.1 | 226.0 | 230.3 |
| 42.5° | 3693.6 | 2584.9 | 248.2 | 175.7 | 168.0 | 166.3 | 166.3 | 168.9 | 180.8 | 194.4 | 195.3 |
| 45° | 3967.3 | 2607.1 | 208.1 | 160.3 | 155.2 | 156.9 | 156.1 | 154.4 | 159.5 | 157.8 | 157.8 |
| 47.5° | 4162.6 | 2580.6 | 172.3 | 145.8 | 145.8 | 148.4 | 144.1 | 138.2 | 135.6 | 125.4 | 126.2 |
| 50° | 4296.5 | 2484.3 | 141.6 | 128.8 | 135.6 | 139.0 | 130.5 | 121.1 | 111.7 | 100.6 | 98.1 |
| 52.5° | 4351.9 | 2312.9 | 116.0 | 106.6 | 120.2 | 124.5 | 114.3 | 103.2 | 88.7 | 79.3 | 76.8 |
| 55° | 4316.1 | 2101.4 | 96.4 | 87.0 | 101.5 | 106.6 | 96.4 | 83.6 | 67.4 | 57.1 | 55.4 |
| 57.5° | 4158.4 | 1848.9 | 81.9 | 69.1 | 81.0 | 84.4 | 77.6 | 64.0 | 47.8 | 37.5 | 37.5 |
| 60° | 3885.5 | 1588.0 | 66.5 | 54.6 | 60.6 | 65.7 | 58.8 | 46.1 | 32.4 | 23.0 | 21.3 |
| 62.5° | 3332.0 | 1289.5 | 53.7 | 42.6 | 42.6 | 46.9 | 40.9 | 33.3 | 20.5 | 11.9 | 11.1 |
| 65° | 2405.8 | 884.4 | 42.6 | 31.6 | 30.7 | 30.7 | 25.6 | 22.2 | 11.9 | 5.1 | 3.4 |
| 67.5° | 1307.4 | 498.9 | 34.1 | 23.9 | 21.3 | 20.5 | 16.2 | 12.8 | 5.1 | 0.9 | 0.0 |
| 70° | 514.3 | 191.9 | 26.4 | 16.2 | 13.6 | 12.8 | 8.5 | 6.0 | 3.4 | 0.0 | 0.0 |
| 71° | 348.8 | 132.2 | 23.0 | 13.6 | 11.1 | 9.4 | 6.8 | 5.1 | 2.6 | 0.0 | 0.0 |
| 72.5° | 199.6 | 81.9 | 17.9 | 10.2 | 8.5 | 6.8 | 5.1 | 3.4 | 2.6 | 0.0 | 0.0 |
| 75° | 87.0 | 41.8 | 11.1 | 7.7 | 6.0 | 4.3 | 3.4 | 2.6 | 0.9 | 0.0 | 0.0 |
| 77.5° | 44.3 | 23.0 | 7.7 | 6.0 | 3.4 | 2.6 | 1.7 | 0.9 | 0.0 | 0.0 | 0.0 |
| 80° | 24.7 | 11.9 | 5.1 | 3.4 | 2.6 | 1.7 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 |
| 82.5° | 13.6 | 6.8 | 2.6 | 1.7 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 8.5 | 4.3 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.3 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 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)