

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: STREETWORKS

Report Number: P598173

Luminaire Tested: **PMM-SA4B-827-U-SL2-HSS**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-17)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4B-827-U-SL2-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11706 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

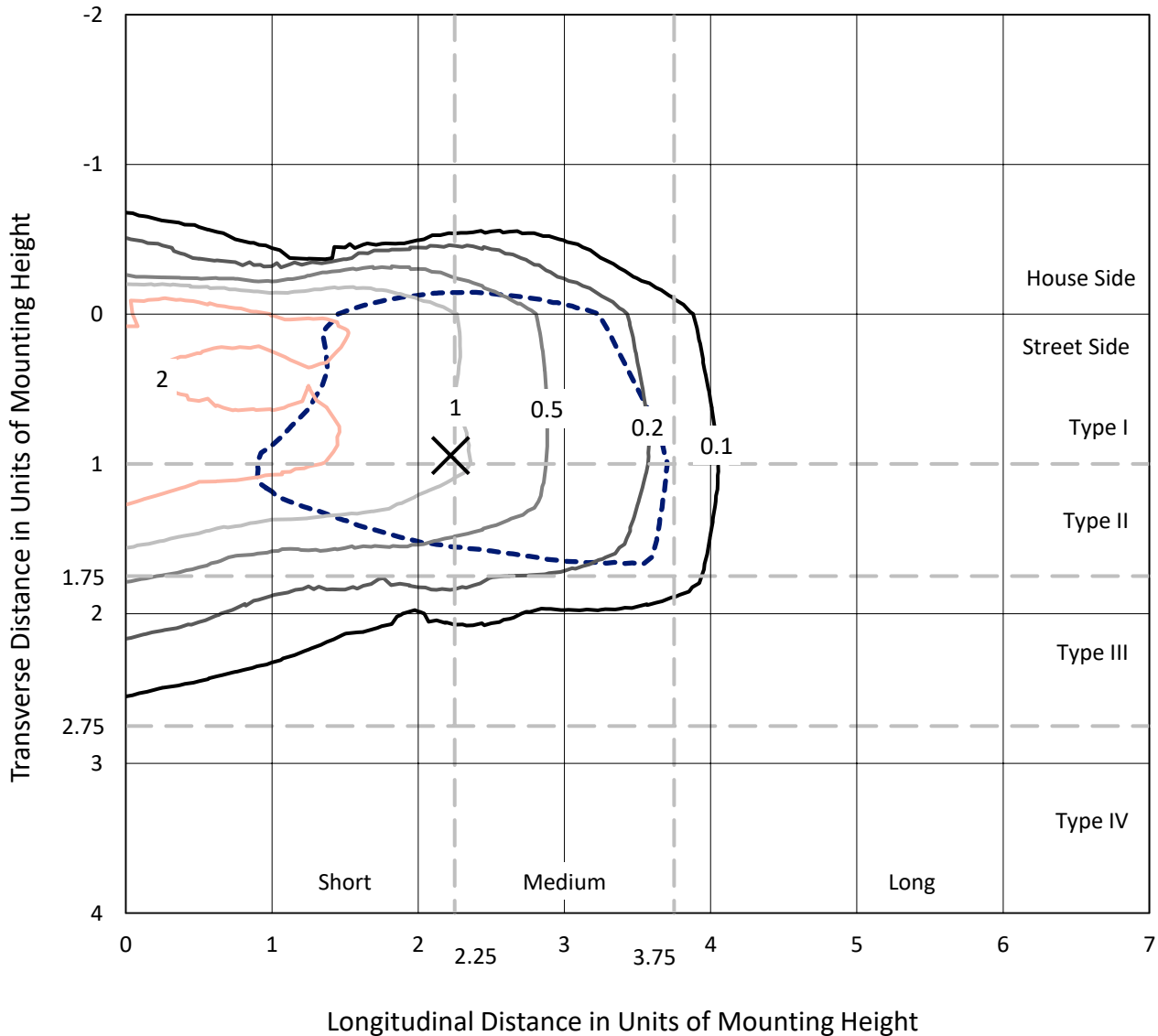
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

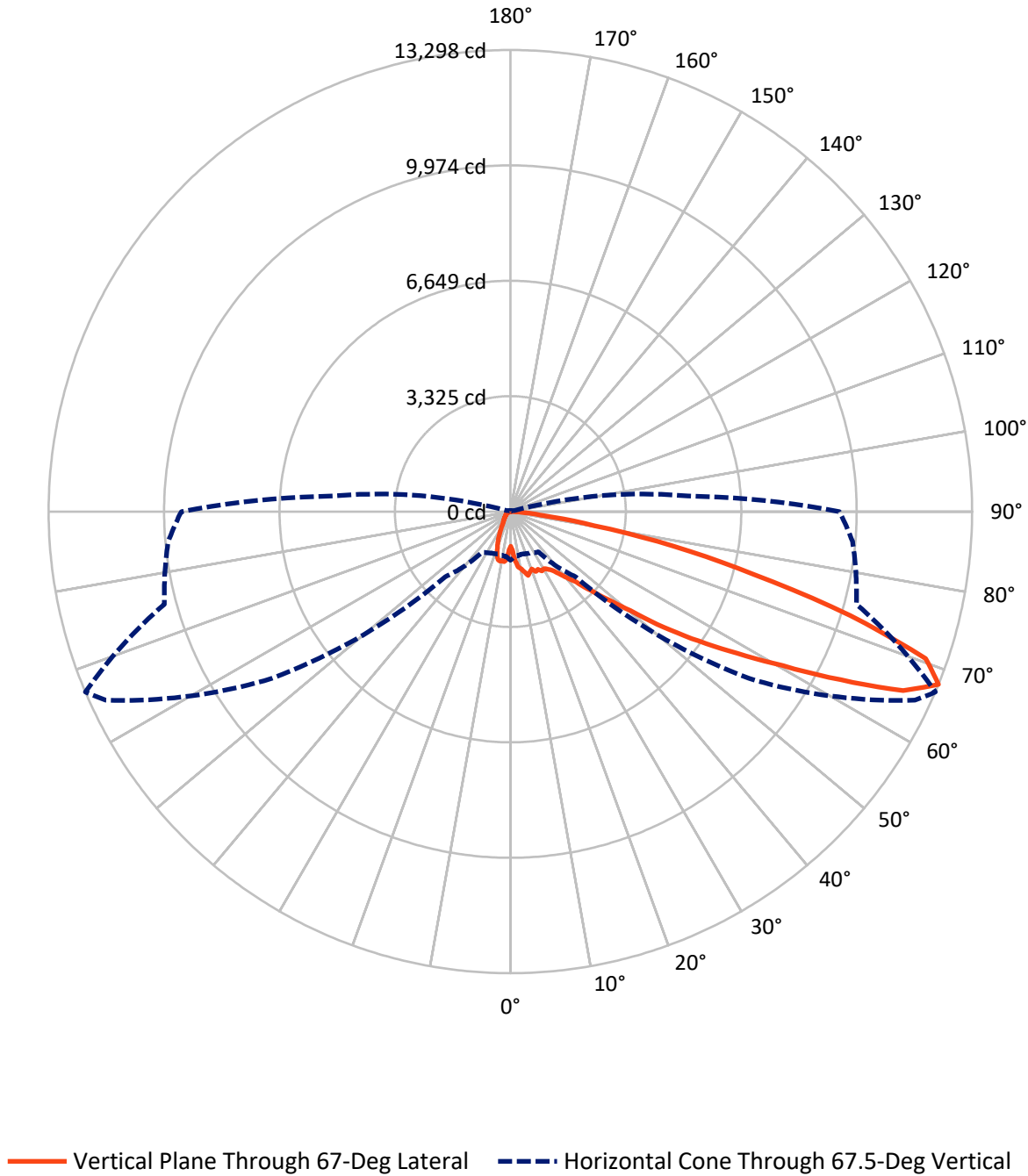
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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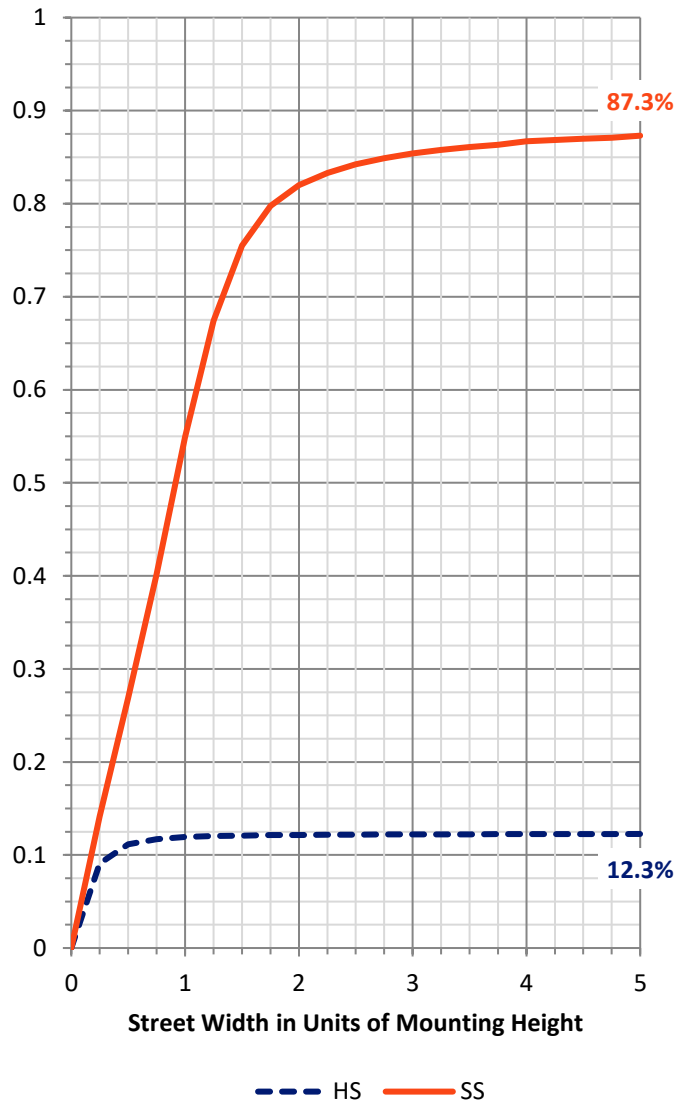
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1447.7 | 0.0 | 1447.7 |
| | % Fixture | 12.4 | 0.0 | 12.4 |
| Street Side | Lumens | 10258.3 | 0.0 | 10258.3 |
| | % Fixture | 87.6 | 0.0 | 87.6 |
| Total | Lumens | 11706.0 | 0.0 | 11706.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 125.1 | 1.1 |
| 10°-20° | 370.3 | 3.2 |
| 20°-30° | 580.3 | 5.0 |
| 30°-40° | 935.7 | 8.0 |
| 40°-50° | 1719.4 | 14.7 |
| 50°-60° | 2903.9 | 24.8 |
| 60°-70° | 3210.4 | 27.4 |
| 70°-80° | 1680.3 | 14.4 |
| 80°-90° | 180.5 | 1.5 |
| 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° | 11706.0 | 100.0 |
| 0°-180° | 11706.0 | 100.0 |

Coefficient of Utilization



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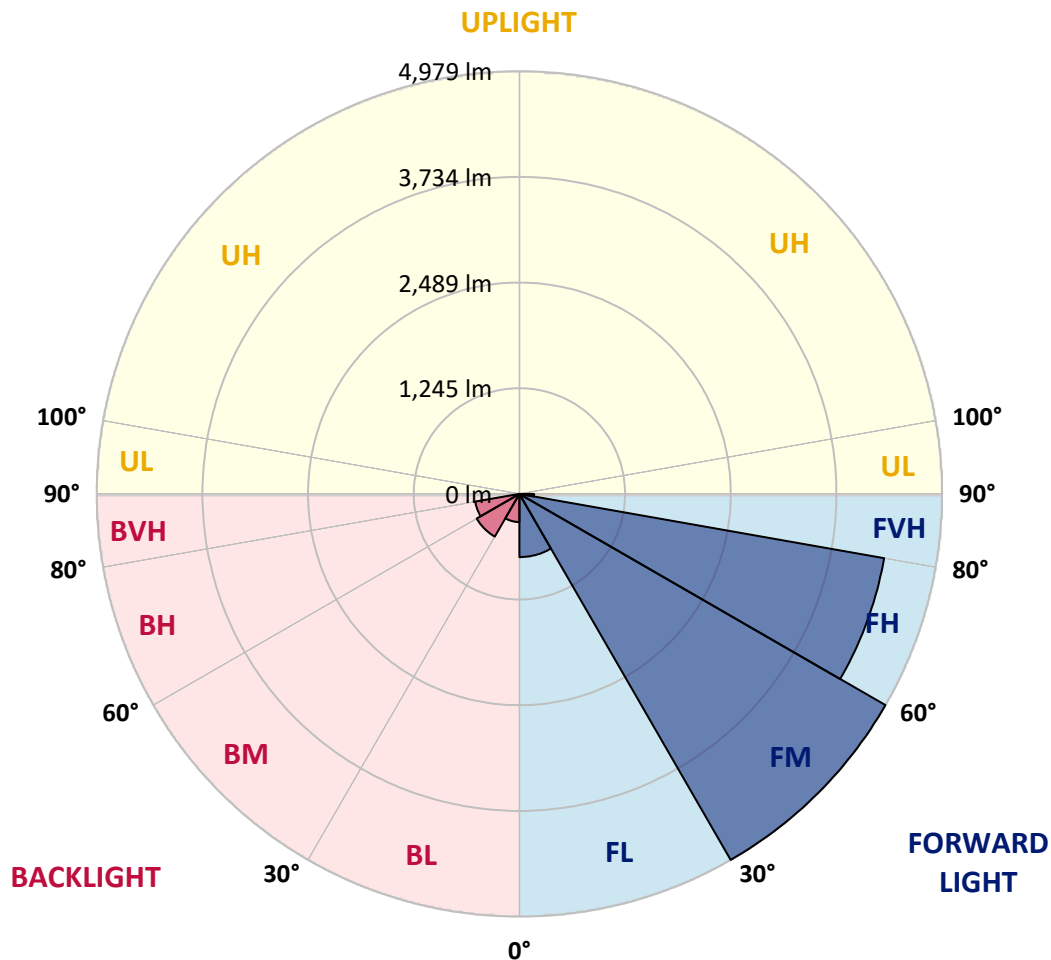
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 744.3 | 6.4 | | | |
| FM (30°-60°) | 4978.6 | 42.5 | | | |
| FH (60°-80°) | 4362.6 | 37.3 | | | G2/5000 |
| FVH (80°-90°) | 172.8 | 1.5 | | | G2/225 |
| BL (0°-30°) | 331.5 | 2.8 | B1/500 | | |
| BM (30°-60°) | 580.5 | 5.0 | B1/1000 | | |
| BH (60°-80°) | 528.1 | 4.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 7.7 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| 0° | 997.0 | 997.0 | 997.0 | 997.0 | 997.0 | 997.0 | 997.0 | 997.0 | 997.0 | 997.0 | 997.0 |
| 2.5° | 1177.0 | 1137.2 | 1069.5 | 1089.1 | 1128.3 | 1160.9 | 1145.5 | 1115.2 | 1115.8 | 1084.9 | 1196.0 |
| 5° | 1369.3 | 1315.9 | 1276.7 | 1290.4 | 1288.6 | 1287.4 | 1360.4 | 1388.3 | 1400.2 | 1451.3 | 1526.7 |
| 7.5° | 1424.6 | 1405.6 | 1364.6 | 1377.1 | 1336.1 | 1339.1 | 1467.3 | 1588.5 | 1607.5 | 1638.9 | 1773.1 |
| 10° | 1403.2 | 1366.4 | 1381.2 | 1381.2 | 1381.8 | 1448.3 | 1534.4 | 1650.2 | 1673.4 | 1794.5 | 1808.8 |
| 12.5° | 1380.0 | 1381.8 | 1440.6 | 1429.9 | 1510.7 | 1630.0 | 1659.1 | 1789.2 | 1777.9 | 1883.0 | 2039.2 |
| 15° | 1466.1 | 1511.3 | 1473.3 | 1488.1 | 1495.8 | 1636.0 | 1682.9 | 1855.7 | 1905.6 | 2038.6 | 2140.1 |
| 17.5° | 1614.0 | 1619.9 | 1541.0 | 1519.6 | 1575.4 | 1615.2 | 1709.6 | 1792.7 | 1826.0 | 2175.2 | 2318.9 |
| 20° | 1640.7 | 1678.7 | 1598.6 | 1475.0 | 1593.2 | 1647.8 | 1713.8 | 1753.5 | 1767.8 | 2217.3 | 2419.8 |
| 22.5° | 1801.6 | 1759.5 | 1631.2 | 1537.4 | 1571.2 | 1630.6 | 1671.6 | 1791.6 | 1877.1 | 2137.7 | 2516.6 |
| 25° | 1884.2 | 1872.9 | 1750.6 | 1670.4 | 1636.0 | 1631.2 | 1725.0 | 1815.9 | 1843.2 | 2220.3 | 2540.4 |
| 27.5° | 2081.9 | 2056.4 | 1819.5 | 1809.4 | 1695.9 | 1596.2 | 1726.8 | 1890.1 | 1941.2 | 2142.5 | 2629.4 |
| 30° | 2350.9 | 2341.4 | 2026.1 | 2019.6 | 1839.1 | 1659.7 | 1823.0 | 1935.9 | 1905.0 | 2182.3 | 2688.8 |
| 32.5° | 2621.7 | 2698.9 | 2376.5 | 2192.4 | 2057.0 | 1893.1 | 1795.7 | 1921.6 | 1976.8 | 2279.1 | 2798.1 |
| 35° | 2948.9 | 3004.7 | 2676.3 | 2542.7 | 2241.7 | 2002.4 | 1976.8 | 2057.6 | 2081.3 | 2394.3 | 2922.2 |
| 37.5° | 3521.3 | 3437.0 | 3157.3 | 2929.9 | 2771.9 | 2392.5 | 2266.6 | 2202.5 | 2257.7 | 2550.5 | 3175.7 |
| 40° | 3944.1 | 3890.7 | 3546.3 | 3410.3 | 3046.9 | 2824.8 | 2495.8 | 2435.8 | 2497.6 | 2710.8 | 3352.1 |
| 42.5° | 4454.2 | 4343.2 | 4019.0 | 3926.9 | 3552.8 | 3124.7 | 2791.0 | 2811.7 | 2773.1 | 3027.3 | 3661.5 |
| 45° | 4915.6 | 4665.0 | 4484.5 | 4505.3 | 4305.8 | 3727.4 | 3283.2 | 3273.1 | 3241.1 | 3485.7 | 3986.9 |
| 47.5° | 5226.2 | 5007.1 | 4831.3 | 4773.7 | 4750.0 | 4787.4 | 3994.6 | 3815.3 | 3791.5 | 3967.3 | 4499.4 |
| 50° | 5393.1 | 5153.2 | 4935.8 | 4947.7 | 5429.9 | 5792.7 | 4728.6 | 4473.8 | 4482.7 | 4666.2 | 5200.1 |
| 52.5° | 5280.8 | 5009.5 | 4780.2 | 5002.9 | 5957.2 | 6463.1 | 5943.5 | 5334.3 | 5540.9 | 5494.0 | 6140.1 |
| 55° | 4762.4 | 4526.7 | 4364.0 | 4762.4 | 6014.8 | 7184.6 | 7439.4 | 6629.4 | 6583.1 | 6476.2 | 7098.5 |
| 57.5° | 3890.1 | 3687.0 | 3586.7 | 4007.1 | 5384.8 | 7766.0 | 8941.7 | 8093.2 | 7698.3 | 7250.5 | 7894.2 |
| 60° | 2898.4 | 2748.8 | 2644.3 | 2866.4 | 4242.8 | 7201.2 | 9925.7 | 9472.6 | 9015.4 | 7997.0 | 8609.2 |
| 62.5° | 2146.7 | 2024.9 | 1913.9 | 1934.1 | 2921.6 | 6193.5 | 10303.4 | 10934.0 | 10671.5 | 8785.0 | 9283.8 |
| 65° | 1713.2 | 1602.1 | 1524.3 | 1479.8 | 1809.4 | 4659.7 | 9777.8 | 12131.7 | 12434.6 | 9527.2 | 9770.7 |
| 67.5° | 1399.0 | 1305.2 | 1266.6 | 1317.7 | 1419.2 | 2656.2 | 8374.0 | 12858.6 | 13298.0 | 10314.6 | 9890.7 |
| 70° | 1138.4 | 1061.2 | 1057.0 | 1194.8 | 1307.0 | 1619.3 | 6159.7 | 12356.8 | 12687.5 | 10448.8 | 9171.5 |
| 72.5° | 793.3 | 759.5 | 813.5 | 1008.9 | 1295.1 | 1348.6 | 3537.4 | 10225.6 | 10237.4 | 9228.5 | 7543.9 |
| 75° | 448.9 | 443.6 | 529.1 | 804.6 | 1261.3 | 1334.9 | 1972.1 | 7226.2 | 7231.5 | 6979.8 | 5226.2 |
| 77.5° | 247.0 | 231.0 | 308.2 | 543.9 | 1083.1 | 1304.0 | 1272.0 | 4934.0 | 4807.6 | 3884.2 | 2387.2 |
| 80° | 114.0 | 107.5 | 166.9 | 348.6 | 792.2 | 1233.4 | 1019.6 | 2712.0 | 2445.3 | 1265.4 | 582.5 |
| 82.5° | 46.9 | 44.5 | 76.6 | 223.9 | 500.6 | 993.5 | 859.3 | 1203.1 | 965.6 | 240.5 | 179.9 |
| 85° | 8.3 | 8.9 | 31.5 | 135.4 | 280.3 | 457.8 | 696.6 | 571.3 | 419.8 | 66.5 | 98.6 |
| 87.5° | 0.0 | 0.0 | 6.5 | 32.7 | 67.7 | 125.3 | 282.7 | 159.7 | 109.9 | 19.6 | 29.1 |
| 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° | 997.0 | 997.0 | 997.0 | 997.0 | 997.0 | 997.0 | 997.0 | 997.0 | 997.0 | 997.0 | 997.0 |
| 2.5° | 1217.9 | 1207.8 | 1105.7 | 1110.4 | 1117.6 | 1111.0 | 1109.8 | 1081.3 | 1055.2 | 1141.3 | 1140.1 |
| 5° | 1540.4 | 1468.5 | 1397.9 | 1370.5 | 1311.7 | 1234.6 | 1235.1 | 1210.8 | 1185.9 | 1220.9 | 1220.9 |
| 7.5° | 1770.2 | 1671.0 | 1581.3 | 1421.6 | 1266.0 | 1125.3 | 1112.8 | 1079.6 | 1041.6 | 1087.3 | 1096.2 |
| 10° | 1823.6 | 1737.5 | 1621.7 | 1387.2 | 1239.9 | 1102.7 | 951.9 | 827.8 | 770.2 | 743.5 | 738.7 |
| 12.5° | 1988.1 | 1924.0 | 1665.1 | 1405.6 | 1193.6 | 961.4 | 714.4 | 567.1 | 466.7 | 459.0 | 448.3 |
| 15° | 2098.0 | 2052.8 | 1707.8 | 1359.8 | 997.6 | 691.2 | 448.9 | 344.4 | 304.0 | 300.5 | 295.1 |
| 17.5° | 2268.4 | 2190.0 | 1666.9 | 1214.4 | 780.3 | 456.1 | 301.7 | 272.0 | 276.7 | 287.4 | 279.1 |
| 20° | 2337.9 | 2184.7 | 1577.8 | 1003.6 | 548.1 | 305.8 | 261.9 | 245.8 | 258.3 | 268.4 | 263.7 |
| 22.5° | 2409.1 | 2200.1 | 1498.8 | 827.2 | 358.1 | 253.0 | 233.4 | 225.1 | 226.2 | 236.3 | 236.9 |
| 25° | 2408.5 | 2242.9 | 1407.4 | 644.3 | 266.6 | 225.1 | 210.8 | 200.1 | 196.0 | 203.1 | 201.3 |
| 27.5° | 2525.5 | 2193.6 | 1240.5 | 478.0 | 234.6 | 201.3 | 187.6 | 174.6 | 159.7 | 166.9 | 166.9 |
| 30° | 2526.1 | 2273.7 | 1124.1 | 343.2 | 215.0 | 179.3 | 167.5 | 147.3 | 130.0 | 136.0 | 136.6 |
| 32.5° | 2593.2 | 2204.3 | 1016.6 | 262.5 | 199.5 | 166.3 | 140.1 | 121.7 | 111.6 | 115.2 | 115.2 |
| 35° | 2669.8 | 2263.6 | 851.5 | 231.6 | 184.1 | 147.9 | 120.0 | 105.1 | 97.4 | 100.4 | 100.4 |
| 37.5° | 2922.8 | 2251.2 | 736.9 | 215.6 | 174.0 | 133.6 | 109.3 | 92.6 | 89.1 | 90.9 | 93.2 |
| 40° | 3014.2 | 2339.6 | 581.3 | 206.1 | 157.4 | 120.5 | 96.2 | 83.7 | 79.0 | 80.2 | 80.8 |
| 42.5° | 3247.0 | 2359.2 | 464.4 | 198.3 | 142.5 | 104.5 | 85.5 | 76.6 | 70.7 | 70.7 | 72.4 |
| 45° | 3504.1 | 2408.5 | 369.4 | 191.8 | 130.0 | 93.8 | 77.2 | 70.1 | 61.2 | 60.0 | 62.4 |
| 47.5° | 3876.5 | 2597.4 | 301.1 | 178.7 | 115.2 | 87.3 | 71.3 | 60.6 | 53.4 | 51.1 | 53.4 |
| 50° | 4499.4 | 2918.0 | 266.0 | 162.7 | 104.5 | 81.9 | 62.9 | 51.7 | 46.3 | 43.3 | 45.1 |
| 52.5° | 5378.2 | 3472.1 | 247.6 | 147.9 | 95.0 | 73.6 | 56.4 | 45.1 | 39.8 | 37.4 | 38.6 |
| 55° | 6354.5 | 4107.4 | 238.7 | 133.0 | 86.7 | 64.7 | 49.3 | 39.8 | 35.0 | 32.1 | 32.7 |
| 57.5° | 7257.1 | 4704.8 | 229.8 | 118.8 | 78.4 | 57.6 | 43.3 | 35.0 | 30.3 | 27.3 | 27.9 |
| 60° | 8146.6 | 5181.7 | 208.4 | 102.1 | 70.7 | 51.7 | 38.0 | 30.3 | 27.3 | 23.8 | 23.8 |
| 62.5° | 8933.4 | 5466.7 | 177.6 | 88.5 | 63.5 | 45.7 | 33.8 | 27.3 | 24.9 | 21.4 | 21.4 |
| 65° | 9469.0 | 5479.8 | 143.1 | 76.0 | 55.8 | 39.2 | 29.7 | 25.5 | 23.2 | 19.0 | 18.4 |
| 67.5° | 9476.8 | 5123.5 | 114.6 | 67.7 | 49.3 | 34.4 | 26.7 | 24.3 | 21.4 | 17.8 | 16.6 |
| 70° | 8482.1 | 4232.7 | 95.6 | 59.4 | 42.8 | 30.3 | 23.2 | 23.2 | 20.8 | 17.2 | 15.4 |
| 72.5° | 6785.0 | 3234.5 | 80.2 | 51.7 | 38.0 | 26.1 | 21.4 | 22.0 | 20.2 | 17.2 | 15.4 |
| 75° | 4560.5 | 1855.1 | 66.5 | 43.9 | 33.3 | 22.0 | 20.8 | 21.4 | 20.8 | 17.2 | 14.8 |
| 77.5° | 2100.3 | 590.9 | 51.7 | 36.2 | 28.5 | 18.4 | 20.2 | 20.2 | 19.0 | 15.4 | 13.1 |
| 80° | 473.3 | 145.5 | 37.4 | 26.7 | 23.2 | 13.7 | 18.4 | 16.6 | 14.8 | 10.7 | 7.7 |
| 82.5° | 172.2 | 44.5 | 22.6 | 16.6 | 14.3 | 5.3 | 11.9 | 11.9 | 10.7 | 7.7 | 4.8 |
| 85° | 98.6 | 23.2 | 12.5 | 10.7 | 7.7 | 2.4 | 6.5 | 7.1 | 5.9 | 5.3 | 2.4 |
| 87.5° | 32.1 | 5.3 | 5.9 | 6.5 | 5.9 | 1.2 | 2.4 | 2.4 | 1.8 | 1.2 | 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)