

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: P367420

Luminaire Tested: **PMM-SA2C-730-U-SL3**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-18)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA2C-730-U-SL3
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11024 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

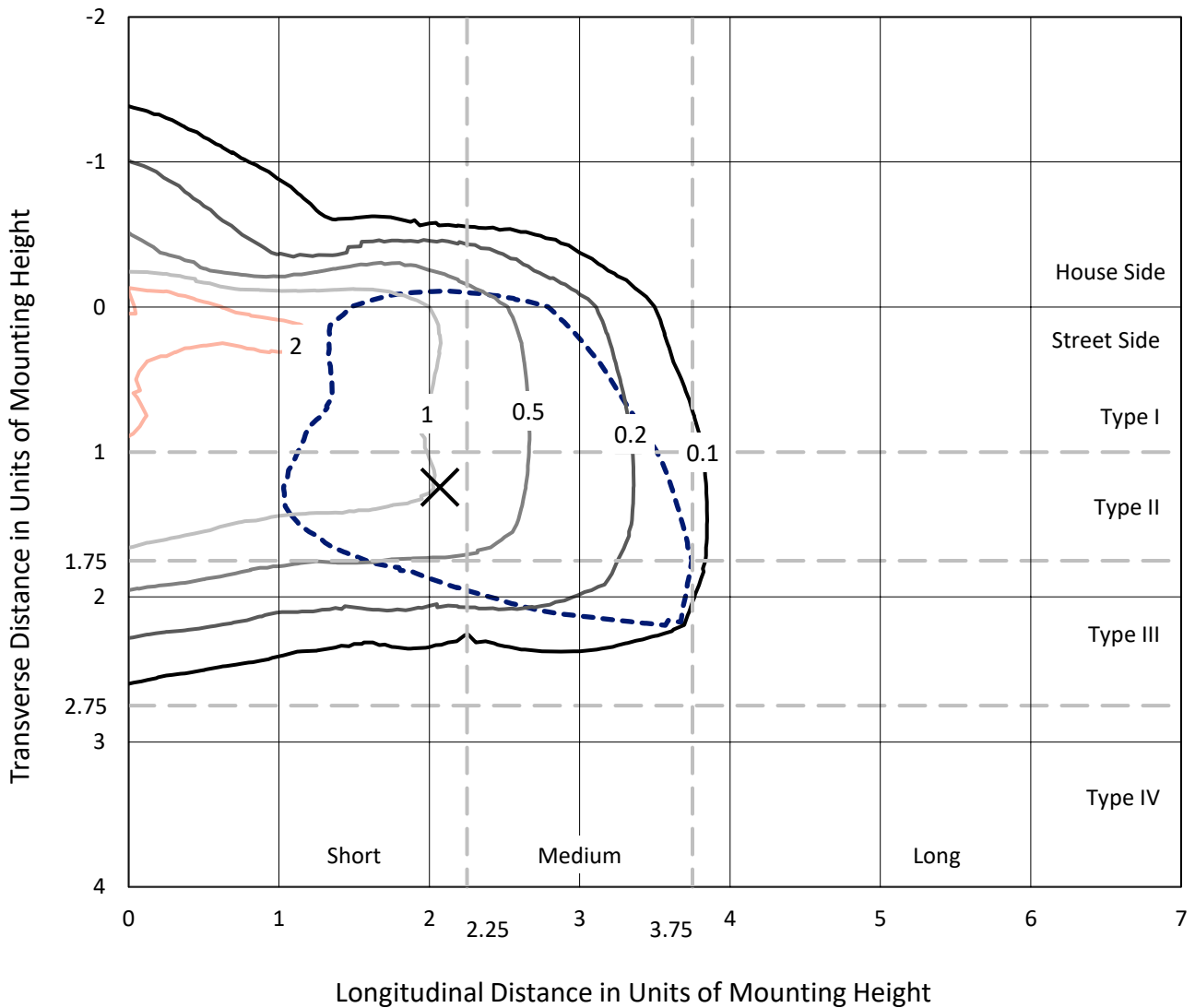
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

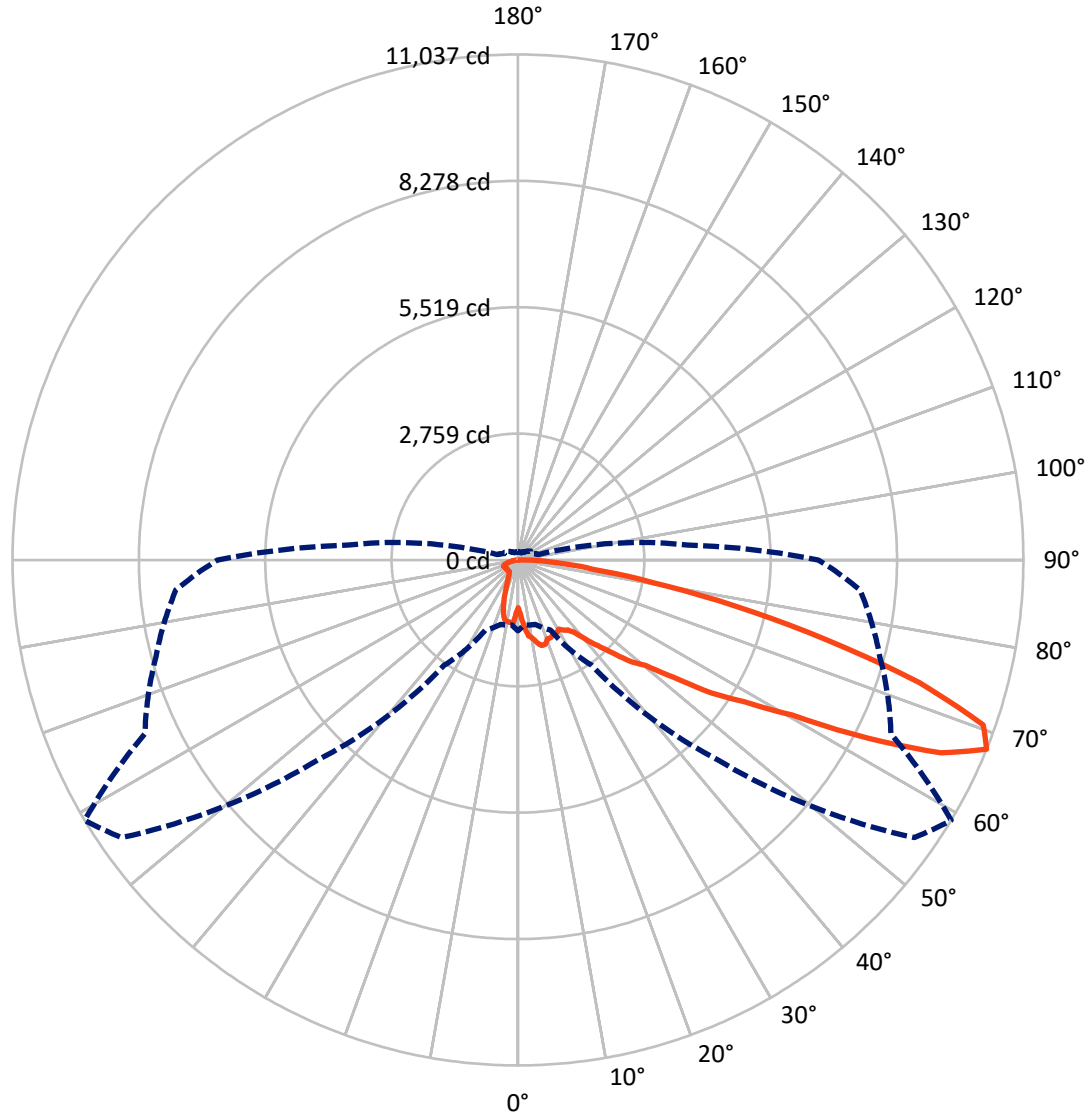
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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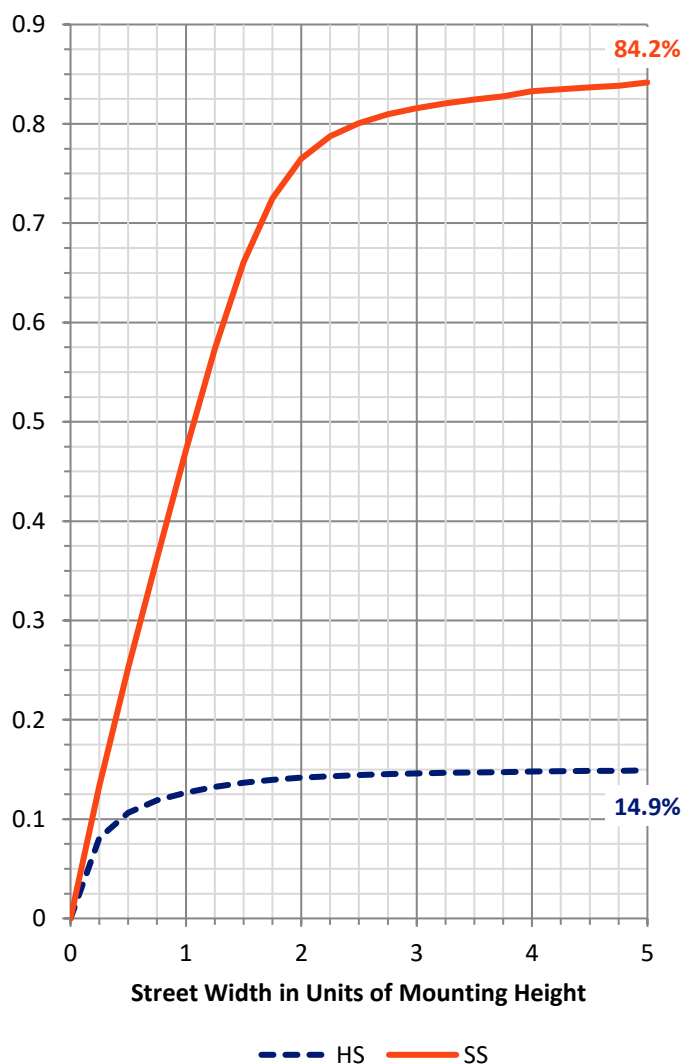
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1659.3 | 0.0 | 1659.3 |
| | % Fixture | 15.1 | 0.0 | 15.1 |
| Street Side | Lumens | 9364.7 | 0.0 | 9364.7 |
| | % Fixture | 84.9 | 0.0 | 84.9 |
| Total | Lumens | 11024.0 | 0.0 | 11024.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 136.2 | 1.2 |
| 10°-20° | 403.2 | 3.7 |
| 20°-30° | 575.8 | 5.2 |
| 30°-40° | 848.4 | 7.7 |
| 40°-50° | 1433.4 | 13.0 |
| 50°-60° | 2494.4 | 22.6 |
| 60°-70° | 3178.7 | 28.8 |
| 70°-80° | 1683.1 | 15.3 |
| 80°-90° | 270.8 | 2.5 |
| 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° | 11024.0 | 100.0 |
| 0°-180° | 11024.0 | 100.0 |

Coefficient of Utilization



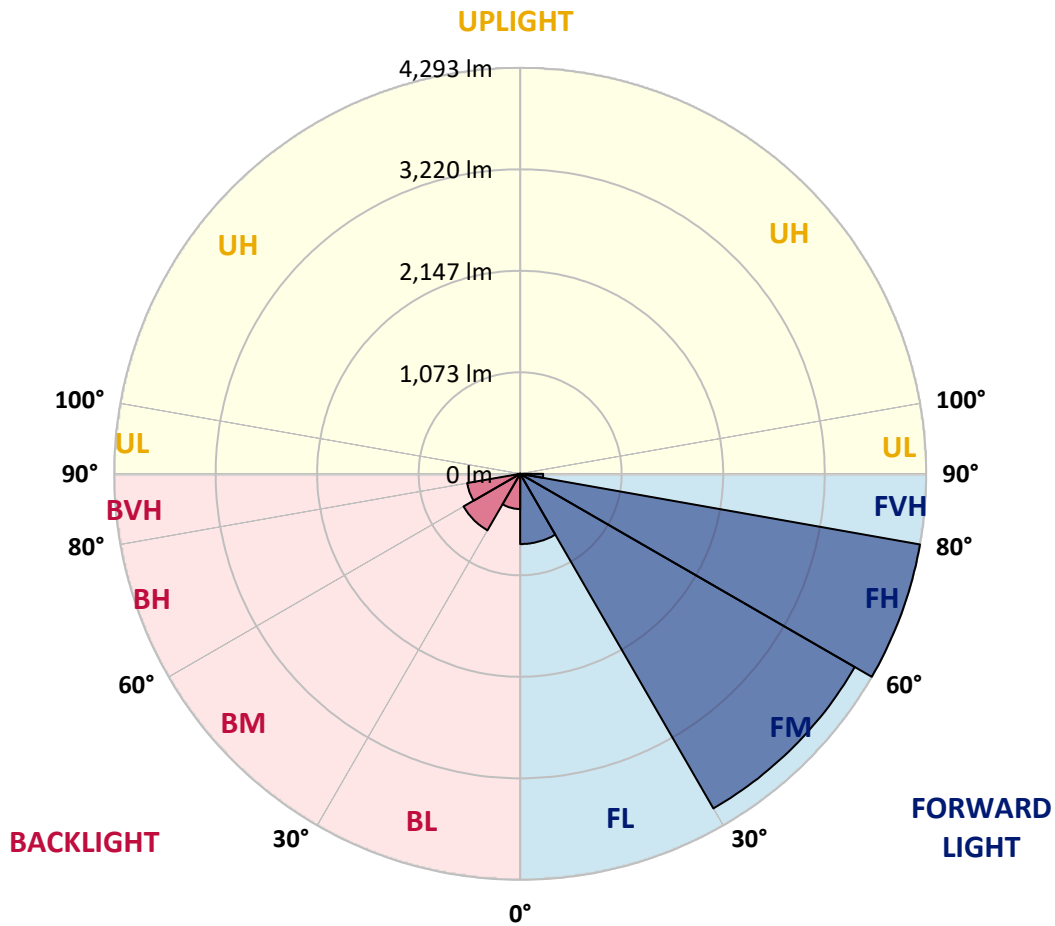
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 743.0 | 6.7 | | | |
| FM (30°-60°) | 4085.3 | 37.1 | | | |
| FH (60°-80°) | 4293.1 | 38.9 | | | G2/5000 |
| FVH (80°-90°) | 243.2 | 2.2 | | | G3/500 |
| BL (0°-30°) | 372.1 | 3.4 | B1/500 | | |
| BM (30°-60°) | 690.9 | 6.3 | B1/1000 | | |
| BH (60°-80°) | 568.7 | 5.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 27.6 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|
| 0° | 1043.2 | 1043.2 | 1043.2 | 1043.2 | 1043.2 | 1043.2 | 1043.2 | 1043.2 | 1043.2 | 1043.2 | 1043.2 |
| 2.5° | 1302.4 | 1241.7 | 1177.2 | 1195.5 | 1232.4 | 1249.2 | 1231.0 | 1213.2 | 1190.3 | 1163.2 | 1255.7 |
| 5° | 1579.5 | 1489.3 | 1476.2 | 1475.7 | 1462.7 | 1410.3 | 1477.6 | 1472.9 | 1500.0 | 1528.1 | 1600.0 |
| 7.5° | 1658.4 | 1624.8 | 1588.3 | 1605.6 | 1539.7 | 1536.9 | 1641.6 | 1671.5 | 1723.8 | 1706.5 | 1803.2 |
| 10° | 1617.8 | 1579.9 | 1599.1 | 1592.1 | 1598.1 | 1667.3 | 1731.3 | 1733.2 | 1789.2 | 1844.3 | 1782.2 |
| 12.5° | 1546.3 | 1549.1 | 1625.2 | 1622.4 | 1720.5 | 1849.0 | 1868.2 | 1853.2 | 1944.8 | 1907.4 | 1960.7 |
| 15° | 1597.2 | 1631.3 | 1612.2 | 1628.5 | 1667.3 | 1830.8 | 1884.0 | 1938.2 | 2025.1 | 2058.8 | 2005.5 |
| 17.5° | 1678.5 | 1696.7 | 1610.8 | 1601.9 | 1681.8 | 1759.3 | 1891.5 | 1937.8 | 1951.3 | 2191.0 | 2115.8 |
| 20° | 1643.9 | 1680.8 | 1596.7 | 1488.8 | 1621.5 | 1724.3 | 1854.6 | 1840.6 | 1906.5 | 2201.2 | 2138.6 |
| 22.5° | 1742.0 | 1680.8 | 1573.9 | 1497.2 | 1544.0 | 1638.3 | 1749.0 | 1841.1 | 1919.1 | 2141.0 | 2171.8 |
| 25° | 1760.7 | 1731.8 | 1631.8 | 1555.6 | 1539.7 | 1573.4 | 1731.3 | 1791.5 | 1923.3 | 2223.2 | 2154.1 |
| 27.5° | 1874.7 | 1831.3 | 1627.6 | 1629.9 | 1551.0 | 1491.6 | 1675.2 | 1801.8 | 1970.9 | 2172.3 | 2197.5 |
| 30° | 2016.2 | 1983.1 | 1727.5 | 1736.9 | 1627.6 | 1518.3 | 1713.5 | 1751.8 | 1998.5 | 2251.7 | 2252.2 |
| 32.5° | 2122.3 | 2180.7 | 1924.2 | 1797.2 | 1758.4 | 1676.6 | 1654.7 | 1827.1 | 1966.3 | 2395.6 | 2345.6 |
| 35° | 2313.4 | 2358.7 | 2075.6 | 1973.7 | 1842.5 | 1750.4 | 1814.4 | 1876.6 | 2100.3 | 2584.8 | 2484.3 |
| 37.5° | 2667.0 | 2614.7 | 2356.8 | 2196.6 | 2147.5 | 2014.8 | 2050.4 | 2006.9 | 2246.1 | 2797.3 | 2756.2 |
| 40° | 2871.6 | 2826.3 | 2554.9 | 2466.1 | 2271.8 | 2288.6 | 2244.2 | 2276.0 | 2440.9 | 3023.4 | 3010.4 |
| 42.5° | 3073.4 | 3012.7 | 2783.3 | 2721.7 | 2527.8 | 2445.6 | 2453.5 | 2556.3 | 2741.3 | 3388.8 | 3345.3 |
| 45° | 3272.9 | 3117.3 | 3016.9 | 3033.2 | 2939.8 | 2771.2 | 2782.9 | 2879.6 | 3069.2 | 3806.4 | 3706.4 |
| 47.5° | 3425.7 | 3297.2 | 3218.7 | 3198.6 | 3152.4 | 3378.0 | 3277.1 | 3316.3 | 3400.0 | 4178.2 | 4140.4 |
| 50° | 3714.8 | 3564.9 | 3462.6 | 3433.6 | 3590.6 | 3904.5 | 3698.9 | 3614.4 | 3792.4 | 4659.0 | 4639.3 |
| 52.5° | 4177.8 | 3990.9 | 3820.4 | 3818.5 | 4045.6 | 4249.3 | 4394.1 | 4248.3 | 4313.7 | 5151.3 | 5207.4 |
| 55° | 4581.9 | 4365.6 | 4212.4 | 4296.9 | 4620.2 | 4744.9 | 5236.8 | 5122.8 | 5067.7 | 5648.4 | 5808.6 |
| 57.5° | 4732.8 | 4480.0 | 4380.1 | 4504.8 | 4981.3 | 5622.2 | 6142.2 | 5842.3 | 5788.5 | 6210.8 | 6546.7 |
| 60° | 4401.6 | 4134.3 | 4140.4 | 4375.4 | 5200.9 | 6266.4 | 7132.1 | 6877.5 | 6562.6 | 6911.1 | 7239.1 |
| 62.5° | 3457.9 | 3216.4 | 3373.8 | 3731.2 | 5016.8 | 6892.4 | 8458.8 | 8566.3 | 7446.9 | 7491.8 | 7623.1 |
| 65° | 2350.3 | 2183.0 | 2325.0 | 2674.9 | 4068.9 | 7233.9 | 9722.5 | 10153.2 | 8252.3 | 7872.1 | 7788.9 |
| 67.5° | 1546.8 | 1428.6 | 1456.1 | 1688.8 | 2801.1 | 6166.9 | 10567.6 | 11037.0 | 8988.6 | 8184.1 | 7496.5 |
| 70° | 1197.8 | 1102.5 | 1090.3 | 1212.3 | 1661.2 | 4284.3 | 10066.8 | 10780.6 | 9437.0 | 7891.7 | 6534.1 |
| 72.5° | 939.9 | 867.5 | 874.1 | 991.3 | 1286.5 | 2376.9 | 7789.8 | 9167.5 | 8761.5 | 6806.0 | 5020.1 |
| 75° | 733.0 | 673.6 | 706.8 | 840.9 | 1189.8 | 1477.1 | 5374.6 | 6957.8 | 6773.8 | 5039.7 | 2863.2 |
| 77.5° | 532.1 | 493.8 | 541.0 | 716.2 | 1118.4 | 1267.4 | 3345.8 | 4854.2 | 4339.4 | 2587.6 | 982.4 |
| 80° | 349.0 | 327.5 | 366.3 | 583.9 | 1014.2 | 1219.7 | 2067.6 | 2974.4 | 2144.2 | 726.9 | 371.9 |
| 82.5° | 205.5 | 196.2 | 228.4 | 395.2 | 815.2 | 1143.1 | 1379.0 | 1652.8 | 877.3 | 307.4 | 197.6 |
| 85° | 107.9 | 100.9 | 135.5 | 227.0 | 562.0 | 1043.6 | 1085.7 | 989.4 | 423.7 | 133.6 | 94.4 |
| 87.5° | 36.0 | 35.0 | 57.5 | 87.8 | 212.6 | 554.0 | 579.3 | 470.0 | 174.7 | 38.8 | 20.6 |
| 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° | 1043.2 | 1043.2 | 1043.2 | 1043.2 | 1043.2 | 1043.2 | 1043.2 | 1043.2 | 1043.2 | 1043.2 | 1043.2 |
| 2.5° | 1268.3 | 1249.6 | 1142.2 | 1157.1 | 1171.2 | 1164.2 | 1160.0 | 1111.4 | 1106.7 | 1175.8 | 1170.2 |
| 5° | 1598.1 | 1520.6 | 1429.0 | 1424.8 | 1364.6 | 1302.9 | 1315.0 | 1295.4 | 1301.0 | 1329.5 | 1332.3 |
| 7.5° | 1772.4 | 1675.7 | 1588.3 | 1446.3 | 1325.8 | 1228.2 | 1243.6 | 1238.9 | 1226.3 | 1290.8 | 1308.0 |
| 10° | 1769.1 | 1683.2 | 1584.6 | 1412.7 | 1331.4 | 1252.0 | 1156.7 | 1066.5 | 1039.9 | 1008.1 | 1010.9 |
| 12.5° | 1885.9 | 1809.8 | 1594.9 | 1419.7 | 1309.4 | 1172.6 | 994.1 | 895.5 | 801.2 | 799.3 | 775.5 |
| 15° | 1922.4 | 1866.3 | 1616.8 | 1379.5 | 1155.7 | 959.5 | 775.0 | 668.0 | 599.8 | 586.3 | 566.2 |
| 17.5° | 2014.4 | 1926.6 | 1550.0 | 1249.6 | 977.3 | 750.3 | 582.5 | 507.8 | 502.2 | 511.5 | 501.3 |
| 20° | 2020.5 | 1878.0 | 1429.5 | 1057.6 | 785.3 | 568.5 | 475.1 | 437.7 | 457.8 | 480.7 | 479.8 |
| 22.5° | 2015.3 | 1816.8 | 1325.3 | 894.1 | 590.0 | 456.9 | 416.2 | 407.8 | 426.5 | 460.6 | 464.8 |
| 25° | 1963.0 | 1796.7 | 1195.0 | 734.4 | 478.8 | 391.5 | 380.3 | 385.4 | 408.8 | 448.9 | 448.9 |
| 27.5° | 2017.6 | 1714.9 | 1031.5 | 597.5 | 402.7 | 348.5 | 356.4 | 369.5 | 386.8 | 432.6 | 441.0 |
| 30° | 1999.9 | 1742.0 | 899.7 | 481.2 | 355.0 | 318.6 | 336.4 | 349.4 | 369.1 | 416.7 | 420.9 |
| 32.5° | 2047.5 | 1669.6 | 789.0 | 404.6 | 323.7 | 306.9 | 311.1 | 328.9 | 354.6 | 391.9 | 399.4 |
| 35° | 2120.4 | 1696.2 | 662.0 | 363.9 | 308.3 | 293.4 | 301.3 | 315.3 | 341.0 | 377.5 | 383.5 |
| 37.5° | 2353.1 | 1694.8 | 574.1 | 341.5 | 305.5 | 290.6 | 294.3 | 304.1 | 334.0 | 367.2 | 381.2 |
| 40° | 2502.6 | 1792.0 | 494.3 | 336.4 | 302.3 | 289.2 | 285.9 | 296.6 | 320.5 | 359.7 | 369.5 |
| 42.5° | 2783.3 | 1851.3 | 459.7 | 334.5 | 301.8 | 281.2 | 278.0 | 290.6 | 313.9 | 350.4 | 365.3 |
| 45° | 3080.0 | 1935.9 | 432.1 | 333.5 | 300.4 | 279.8 | 270.0 | 285.9 | 305.5 | 340.6 | 357.8 |
| 47.5° | 3428.9 | 2114.8 | 416.7 | 330.3 | 297.6 | 281.7 | 267.2 | 275.2 | 297.1 | 332.1 | 349.4 |
| 50° | 3885.8 | 2351.7 | 420.0 | 325.6 | 301.8 | 282.2 | 263.0 | 266.7 | 286.8 | 320.9 | 338.7 |
| 52.5° | 4441.3 | 2718.4 | 441.0 | 327.5 | 304.6 | 279.8 | 261.1 | 259.3 | 276.6 | 306.5 | 324.2 |
| 55° | 5110.7 | 3238.8 | 504.1 | 336.4 | 304.6 | 279.4 | 258.3 | 249.9 | 263.0 | 287.3 | 304.6 |
| 57.5° | 5918.4 | 3841.4 | 627.4 | 340.6 | 302.3 | 276.6 | 252.3 | 237.3 | 245.3 | 265.3 | 281.7 |
| 60° | 6612.1 | 4327.7 | 754.5 | 343.4 | 306.9 | 270.0 | 240.1 | 221.4 | 226.6 | 242.0 | 256.5 |
| 62.5° | 6965.8 | 4464.1 | 792.8 | 341.0 | 319.5 | 265.8 | 225.6 | 204.6 | 205.1 | 218.2 | 231.2 |
| 65° | 7032.1 | 4282.4 | 639.1 | 338.7 | 335.9 | 265.3 | 215.4 | 190.1 | 186.9 | 196.2 | 207.4 |
| 67.5° | 6559.3 | 3717.2 | 461.1 | 333.5 | 337.8 | 262.5 | 208.4 | 178.5 | 170.0 | 176.6 | 185.9 |
| 70° | 5569.4 | 2993.5 | 387.3 | 323.3 | 315.3 | 248.5 | 196.2 | 166.3 | 155.1 | 159.8 | 166.8 |
| 72.5° | 4152.1 | 2214.8 | 337.8 | 301.3 | 274.7 | 212.6 | 177.5 | 152.8 | 141.1 | 144.4 | 149.5 |
| 75° | 2306.8 | 1181.4 | 282.6 | 262.1 | 224.2 | 171.9 | 151.4 | 135.5 | 125.2 | 126.6 | 132.2 |
| 77.5° | 766.1 | 435.9 | 207.4 | 207.9 | 169.6 | 132.7 | 124.7 | 115.9 | 107.9 | 108.4 | 113.1 |
| 80° | 347.1 | 241.1 | 148.6 | 149.5 | 118.2 | 96.2 | 95.8 | 93.0 | 87.8 | 86.4 | 89.7 |
| 82.5° | 201.3 | 146.2 | 101.8 | 97.2 | 76.1 | 62.6 | 69.6 | 68.2 | 66.8 | 61.7 | 62.6 |
| 85° | 99.0 | 78.5 | 53.3 | 50.5 | 42.0 | 31.3 | 37.4 | 38.8 | 37.4 | 31.8 | 31.3 |
| 87.5° | 24.3 | 25.7 | 13.1 | 12.1 | 7.0 | 3.3 | 5.6 | 5.6 | 7.0 | 4.7 | 2.3 |
| 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)