

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: P598110

Luminaire Tested: **PMM-SA3C-827-U-SL3**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-18)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA3C-827-U-SL3
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) 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: 13132 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

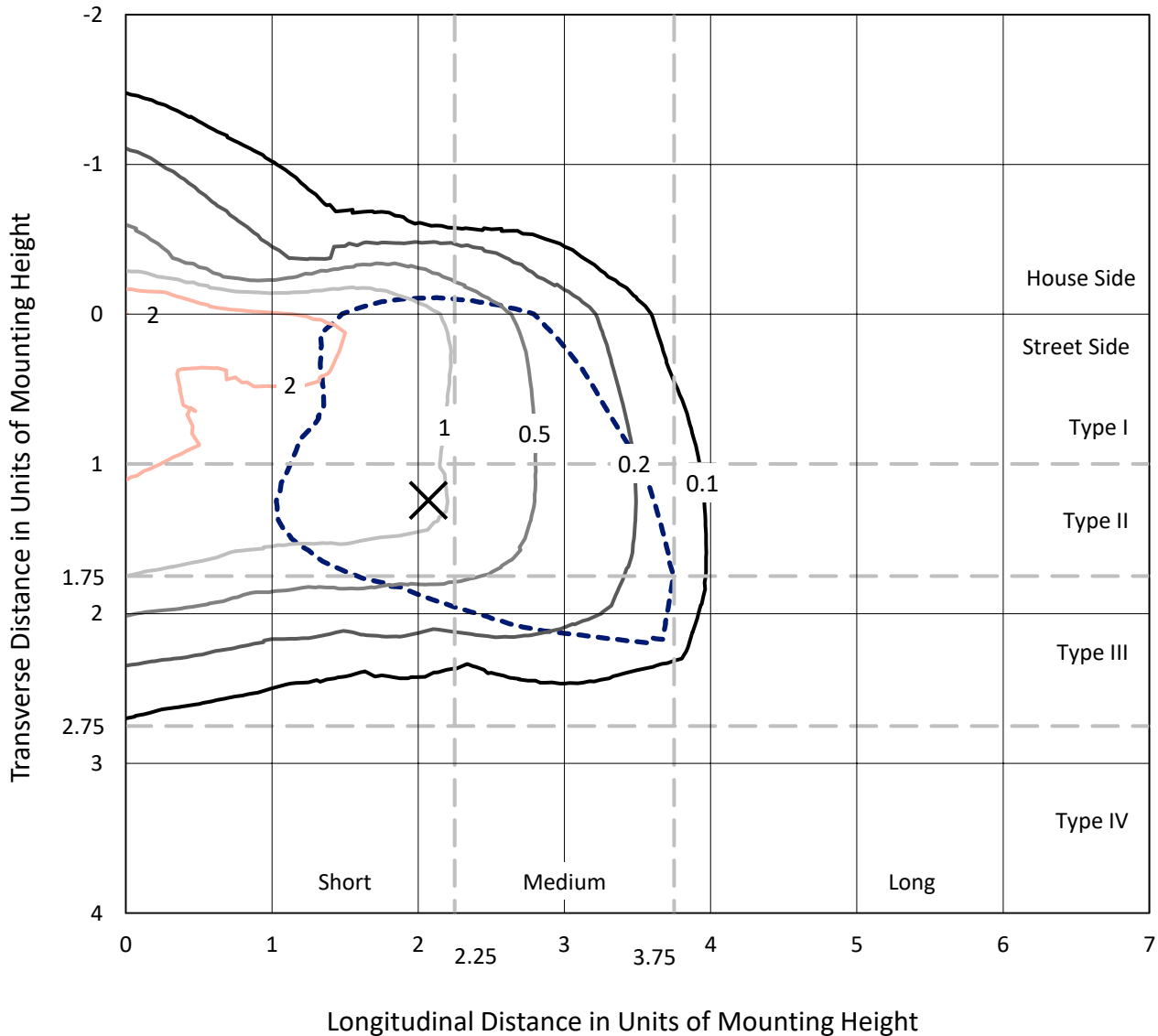
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

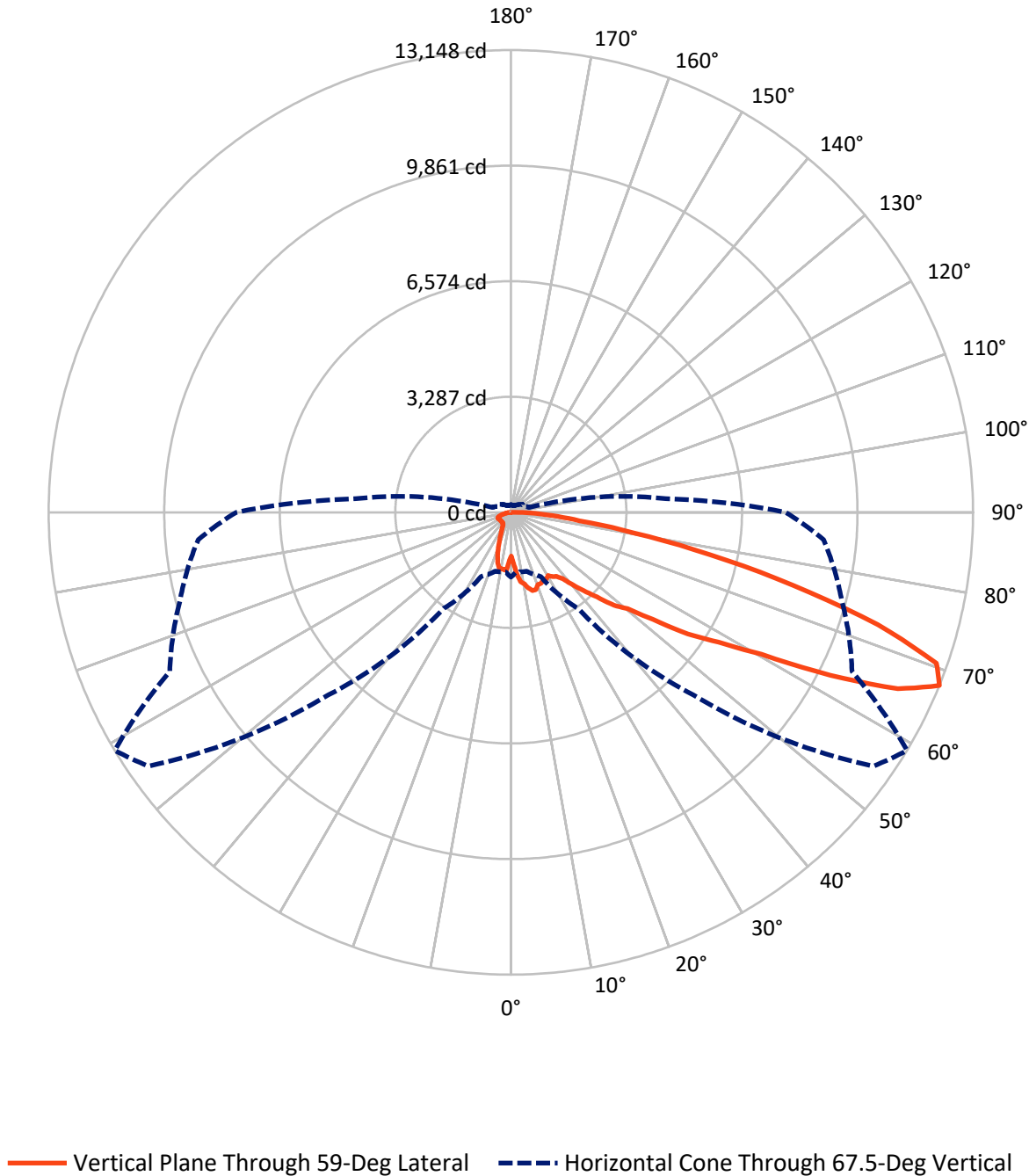
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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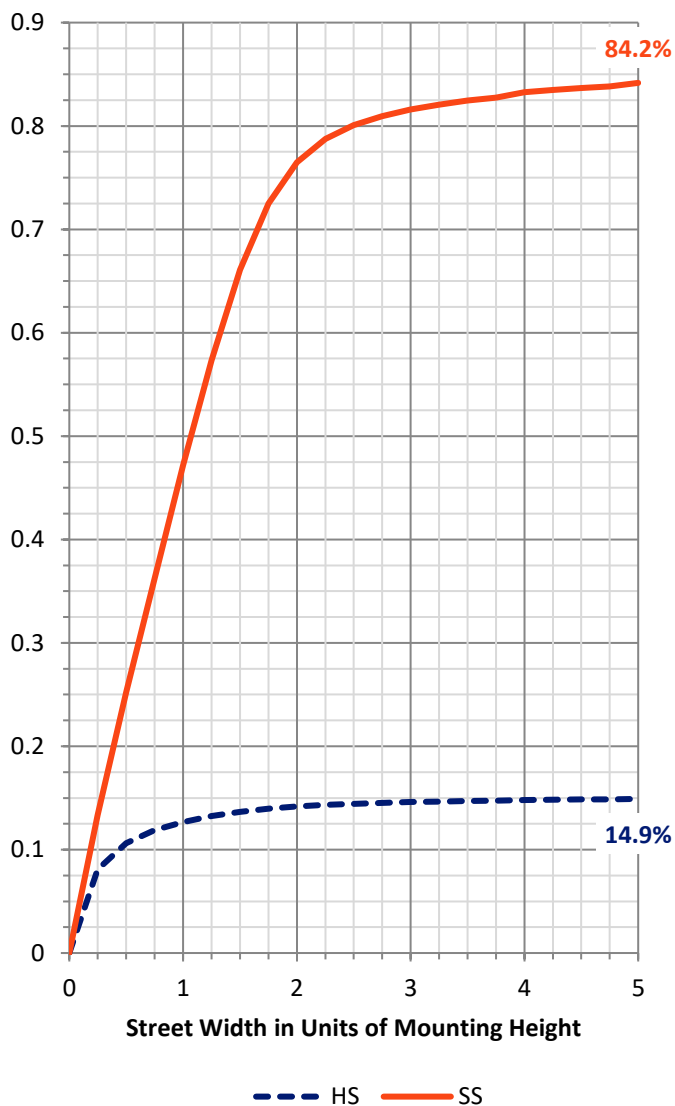
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1976.6 | 0.0 | 1976.6 |
| | % Fixture | 15.1 | 0.0 | 15.1 |
| Street Side | Lumens | 11155.4 | 0.0 | 11155.4 |
| | % Fixture | 84.9 | 0.0 | 84.9 |
| Total | Lumens | 13132.0 | 0.0 | 13132.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 162.3 | 1.2 |
| 10°-20° | 480.3 | 3.7 |
| 20°-30° | 685.9 | 5.2 |
| 30°-40° | 1010.7 | 7.7 |
| 40°-50° | 1707.5 | 13.0 |
| 50°-60° | 2971.4 | 22.6 |
| 60°-70° | 3786.5 | 28.8 |
| 70°-80° | 2005.0 | 15.3 |
| 80°-90° | 322.5 | 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° | 13132.0 | 100.0 |
| 0°-180° | 13132.0 | 100.0 |

Coefficient of Utilization



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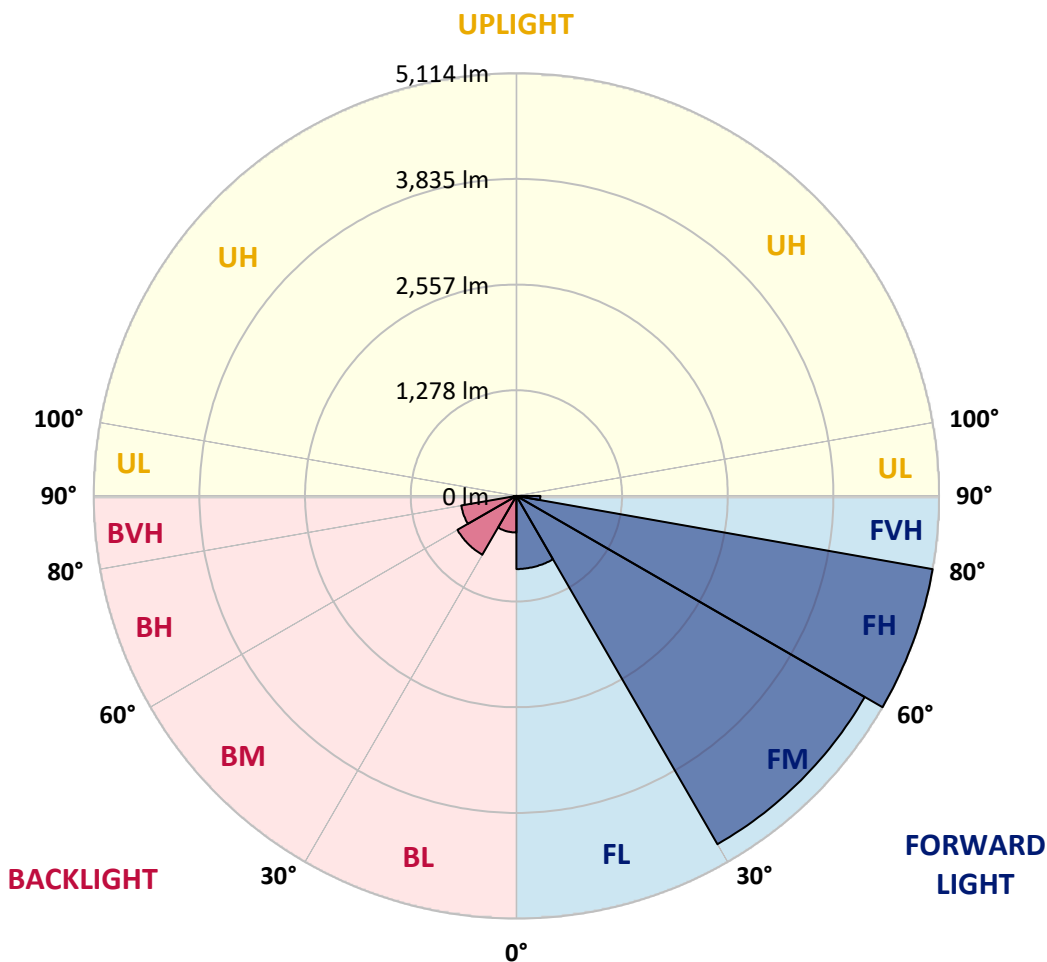
CATALOG NUMBER: PMM-SA3C-827-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 885.1 | 6.7 | | | |
| FM (30°-60°) | 4866.5 | 37.1 | | | |
| FH (60°-80°) | 5114.0 | 38.9 | | | G3/7500 |
| FVH (80°-90°) | 289.7 | 2.2 | | | G3/500 |
| BL (0°-30°) | 443.3 | 3.4 | B1/500 | | |
| BM (30°-60°) | 823.1 | 6.3 | B1/1000 | | |
| BH (60°-80°) | 677.5 | 5.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 32.8 | 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° | 1242.6 | 1242.6 | 1242.6 | 1242.6 | 1242.6 | 1242.6 | 1242.6 | 1242.6 | 1242.6 | 1242.6 | 1242.6 |
| 2.5° | 1551.5 | 1479.1 | 1402.3 | 1424.0 | 1468.0 | 1488.0 | 1466.3 | 1445.2 | 1417.9 | 1385.7 | 1495.8 |
| 5° | 1881.5 | 1774.1 | 1758.5 | 1757.9 | 1742.4 | 1680.0 | 1760.2 | 1754.6 | 1786.9 | 1820.3 | 1906.0 |
| 7.5° | 1975.5 | 1935.5 | 1892.1 | 1912.6 | 1834.2 | 1830.8 | 1955.5 | 1991.1 | 2053.4 | 2032.8 | 2148.0 |
| 10° | 1927.1 | 1882.0 | 1904.9 | 1896.5 | 1903.7 | 1986.1 | 2062.3 | 2064.6 | 2131.3 | 2197.0 | 2123.0 |
| 12.5° | 1842.0 | 1845.3 | 1936.0 | 1932.7 | 2049.5 | 2202.6 | 2225.4 | 2207.6 | 2316.7 | 2272.1 | 2335.6 |
| 15° | 1902.6 | 1943.2 | 1920.4 | 1939.9 | 1986.1 | 2180.9 | 2244.3 | 2308.9 | 2412.4 | 2452.4 | 2389.0 |
| 17.5° | 1999.5 | 2021.2 | 1918.8 | 1908.2 | 2003.3 | 2095.7 | 2253.2 | 2308.3 | 2324.4 | 2609.9 | 2520.3 |
| 20° | 1958.3 | 2002.2 | 1902.1 | 1773.5 | 1931.6 | 2054.0 | 2209.2 | 2192.6 | 2271.0 | 2622.2 | 2547.6 |
| 22.5° | 2075.1 | 2002.2 | 1874.8 | 1783.5 | 1839.2 | 1951.6 | 2083.5 | 2193.1 | 2286.0 | 2550.4 | 2587.1 |
| 25° | 2097.4 | 2062.9 | 1943.8 | 1853.1 | 1834.2 | 1874.2 | 2062.3 | 2134.1 | 2291.1 | 2648.3 | 2566.0 |
| 27.5° | 2233.2 | 2181.4 | 1938.8 | 1941.6 | 1847.5 | 1776.9 | 1995.6 | 2146.4 | 2347.8 | 2587.7 | 2617.7 |
| 30° | 2401.8 | 2362.3 | 2057.9 | 2069.0 | 1938.8 | 1808.6 | 2041.2 | 2086.8 | 2380.6 | 2682.3 | 2682.8 |
| 32.5° | 2528.1 | 2597.7 | 2292.2 | 2140.8 | 2094.6 | 1997.2 | 1971.1 | 2176.4 | 2342.2 | 2853.7 | 2794.1 |
| 35° | 2755.7 | 2809.7 | 2472.5 | 2351.2 | 2194.8 | 2085.2 | 2161.4 | 2235.4 | 2502.0 | 3079.0 | 2959.4 |
| 37.5° | 3177.0 | 3114.7 | 2807.5 | 2616.6 | 2558.2 | 2400.1 | 2442.4 | 2390.7 | 2675.6 | 3332.2 | 3283.3 |
| 40° | 3420.7 | 3366.7 | 3043.4 | 2937.7 | 2706.2 | 2726.2 | 2673.4 | 2711.2 | 2907.6 | 3601.6 | 3586.0 |
| 42.5° | 3661.1 | 3588.8 | 3315.5 | 3242.1 | 3011.1 | 2913.2 | 2922.7 | 3045.1 | 3265.5 | 4036.7 | 3985.0 |
| 45° | 3898.7 | 3713.4 | 3593.8 | 3613.3 | 3502.0 | 3301.1 | 3315.0 | 3430.2 | 3656.1 | 4534.2 | 4415.2 |
| 47.5° | 4080.7 | 3927.7 | 3834.2 | 3810.3 | 3755.2 | 4024.0 | 3903.7 | 3950.5 | 4050.1 | 4977.2 | 4932.1 |
| 50° | 4425.2 | 4246.5 | 4124.7 | 4090.2 | 4277.2 | 4651.1 | 4406.3 | 4305.5 | 4517.6 | 5549.8 | 5526.5 |
| 52.5° | 4976.7 | 4754.1 | 4550.9 | 4548.7 | 4819.2 | 5061.8 | 5234.3 | 5060.7 | 5138.6 | 6136.4 | 6203.2 |
| 55° | 5458.0 | 5200.4 | 5017.8 | 5118.6 | 5503.6 | 5652.2 | 6238.2 | 6102.4 | 6036.8 | 6728.5 | 6919.3 |
| 57.5° | 5637.8 | 5336.7 | 5217.6 | 5366.2 | 5933.8 | 6697.3 | 7316.7 | 6959.4 | 6895.4 | 7398.5 | 7798.6 |
| 60° | 5243.2 | 4924.9 | 4932.1 | 5212.0 | 6195.4 | 7464.7 | 8495.9 | 8192.6 | 7817.5 | 8232.7 | 8623.3 |
| 62.5° | 4119.1 | 3831.4 | 4018.9 | 4444.7 | 5976.1 | 8210.4 | 10076.3 | 10204.3 | 8870.9 | 8924.4 | 9080.7 |
| 65° | 2799.7 | 2600.5 | 2769.6 | 3186.4 | 4847.0 | 8617.2 | 11581.6 | 12094.7 | 9830.3 | 9377.3 | 9278.3 |
| 67.5° | 1842.5 | 1701.7 | 1734.6 | 2011.7 | 3336.7 | 7346.2 | 12588.3 | 13147.5 | 10707.3 | 9749.1 | 8929.9 |
| 70° | 1426.8 | 1313.3 | 1298.8 | 1444.1 | 1978.9 | 5103.5 | 11991.7 | 12842.0 | 11241.6 | 9400.7 | 7783.6 |
| 72.5° | 1119.6 | 1033.4 | 1041.2 | 1180.9 | 1532.6 | 2831.4 | 9279.4 | 10920.5 | 10436.9 | 8107.4 | 5980.0 |
| 75° | 873.1 | 802.5 | 842.0 | 1001.7 | 1417.4 | 1759.6 | 6402.4 | 8288.3 | 8069.0 | 6003.4 | 3410.7 |
| 77.5° | 633.8 | 588.2 | 644.4 | 853.1 | 1332.2 | 1509.7 | 3985.6 | 5782.4 | 5169.2 | 3082.4 | 1170.3 |
| 80° | 415.7 | 390.1 | 436.3 | 695.6 | 1208.1 | 1453.0 | 2463.0 | 3543.1 | 2554.3 | 865.9 | 443.0 |
| 82.5° | 244.9 | 233.7 | 272.1 | 470.8 | 971.1 | 1361.7 | 1642.7 | 1968.8 | 1045.1 | 366.2 | 235.4 |
| 85° | 128.5 | 120.2 | 161.4 | 270.5 | 669.5 | 1243.2 | 1293.3 | 1178.6 | 504.7 | 159.2 | 112.4 |
| 87.5° | 42.8 | 41.7 | 68.4 | 104.6 | 253.2 | 660.0 | 690.0 | 559.8 | 208.1 | 46.2 | 24.5 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1242.6 | 1242.6 | 1242.6 | 1242.6 | 1242.6 | 1242.6 | 1242.6 | 1242.6 | 1242.6 | 1242.6 | 1242.6 |
| 2.5° | 1510.9 | 1488.6 | 1360.6 | 1378.4 | 1395.1 | 1386.8 | 1381.8 | 1323.9 | 1318.3 | 1400.7 | 1394.0 |
| 5° | 1903.7 | 1811.4 | 1702.3 | 1697.3 | 1625.5 | 1552.0 | 1566.5 | 1543.1 | 1549.8 | 1583.8 | 1587.1 |
| 7.5° | 2111.3 | 1996.1 | 1892.1 | 1722.9 | 1579.3 | 1463.0 | 1481.4 | 1475.8 | 1460.8 | 1537.6 | 1558.2 |
| 10° | 2107.4 | 2005.0 | 1887.6 | 1682.8 | 1586.0 | 1491.4 | 1377.9 | 1270.5 | 1238.7 | 1200.9 | 1204.2 |
| 12.5° | 2246.5 | 2155.8 | 1899.8 | 1691.2 | 1559.8 | 1396.8 | 1184.2 | 1066.8 | 954.4 | 952.1 | 923.8 |
| 15° | 2289.9 | 2223.2 | 1926.0 | 1643.3 | 1376.7 | 1143.0 | 923.2 | 795.8 | 714.5 | 698.4 | 674.5 |
| 17.5° | 2399.6 | 2294.9 | 1846.4 | 1488.6 | 1164.2 | 893.7 | 693.9 | 604.9 | 598.2 | 609.4 | 597.1 |
| 20° | 2406.8 | 2237.1 | 1702.8 | 1259.9 | 935.5 | 677.2 | 565.9 | 521.4 | 545.4 | 572.6 | 571.5 |
| 22.5° | 2400.7 | 2164.2 | 1578.8 | 1065.1 | 702.8 | 544.2 | 495.8 | 485.8 | 508.1 | 548.7 | 553.7 |
| 25° | 2338.4 | 2140.2 | 1423.5 | 874.8 | 570.4 | 466.3 | 453.0 | 459.1 | 486.9 | 534.8 | 534.8 |
| 27.5° | 2403.5 | 2042.9 | 1228.7 | 711.7 | 479.7 | 415.1 | 424.6 | 440.2 | 460.8 | 515.3 | 525.3 |
| 30° | 2382.3 | 2075.1 | 1071.8 | 573.2 | 422.9 | 379.5 | 400.7 | 416.3 | 439.6 | 496.4 | 501.4 |
| 32.5° | 2439.1 | 1988.9 | 939.9 | 481.9 | 385.6 | 365.6 | 370.6 | 391.8 | 422.4 | 466.9 | 475.8 |
| 35° | 2525.9 | 2020.6 | 788.5 | 433.5 | 367.3 | 349.5 | 358.9 | 375.6 | 406.2 | 449.6 | 456.9 |
| 37.5° | 2803.0 | 2018.9 | 683.9 | 406.8 | 363.9 | 346.1 | 350.6 | 362.3 | 397.9 | 437.4 | 454.1 |
| 40° | 2981.1 | 2134.7 | 588.8 | 400.7 | 360.0 | 344.5 | 340.6 | 353.4 | 381.7 | 428.5 | 440.2 |
| 42.5° | 3315.5 | 2205.4 | 547.6 | 398.4 | 359.5 | 335.0 | 331.1 | 346.1 | 374.0 | 417.4 | 435.2 |
| 45° | 3668.9 | 2306.1 | 514.7 | 397.3 | 357.8 | 333.3 | 321.6 | 340.6 | 363.9 | 405.7 | 426.3 |
| 47.5° | 4084.6 | 2519.2 | 496.4 | 393.4 | 354.5 | 335.6 | 318.3 | 327.8 | 353.9 | 395.7 | 416.3 |
| 50° | 4628.9 | 2801.4 | 500.3 | 387.9 | 359.5 | 336.1 | 313.3 | 317.8 | 341.7 | 382.3 | 403.5 |
| 52.5° | 5290.5 | 3238.2 | 525.3 | 390.1 | 362.8 | 333.3 | 311.1 | 308.8 | 329.4 | 365.1 | 386.2 |
| 55° | 6088.0 | 3858.1 | 600.4 | 400.7 | 362.8 | 332.8 | 307.7 | 297.7 | 313.3 | 342.2 | 362.8 |
| 57.5° | 7050.1 | 4576.0 | 747.4 | 405.7 | 360.0 | 329.4 | 300.5 | 282.7 | 292.2 | 316.1 | 335.6 |
| 60° | 7876.5 | 5155.3 | 898.7 | 409.0 | 365.6 | 321.6 | 286.0 | 263.8 | 269.9 | 288.3 | 305.5 |
| 62.5° | 8297.8 | 5317.8 | 944.4 | 406.2 | 380.6 | 316.6 | 268.8 | 243.7 | 244.3 | 259.9 | 275.5 |
| 65° | 8376.8 | 5101.3 | 761.3 | 403.5 | 400.1 | 316.1 | 256.5 | 226.5 | 222.6 | 233.7 | 247.1 |
| 67.5° | 7813.6 | 4428.0 | 549.3 | 397.3 | 402.3 | 312.7 | 248.2 | 212.6 | 202.6 | 210.4 | 221.5 |
| 70° | 6634.4 | 3566.0 | 461.3 | 385.1 | 375.6 | 296.1 | 233.7 | 198.1 | 184.8 | 190.3 | 198.7 |
| 72.5° | 4946.0 | 2638.3 | 402.3 | 358.9 | 327.2 | 253.2 | 211.5 | 182.0 | 168.1 | 172.0 | 178.1 |
| 75° | 2747.9 | 1407.4 | 336.7 | 312.2 | 267.1 | 204.8 | 180.3 | 161.4 | 149.1 | 150.8 | 157.5 |
| 77.5° | 912.6 | 519.2 | 247.1 | 247.6 | 202.0 | 158.0 | 148.6 | 138.0 | 128.5 | 129.1 | 134.7 |
| 80° | 413.5 | 287.1 | 177.0 | 178.1 | 140.8 | 114.6 | 114.1 | 110.7 | 104.6 | 102.9 | 106.8 |
| 82.5° | 239.8 | 174.2 | 121.3 | 115.7 | 90.7 | 74.6 | 82.9 | 81.2 | 79.6 | 73.5 | 74.6 |
| 85° | 118.0 | 93.5 | 63.4 | 60.1 | 50.1 | 37.3 | 44.5 | 46.2 | 44.5 | 37.8 | 37.3 |
| 87.5° | 28.9 | 30.6 | 15.6 | 14.5 | 8.3 | 3.9 | 6.7 | 6.7 | 8.3 | 5.6 | 2.8 |
| 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)