

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: P367990

Luminaire Tested: **PMM-SA3C-750-U-SL2**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-16)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA3C-750-U-SL2
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18085 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

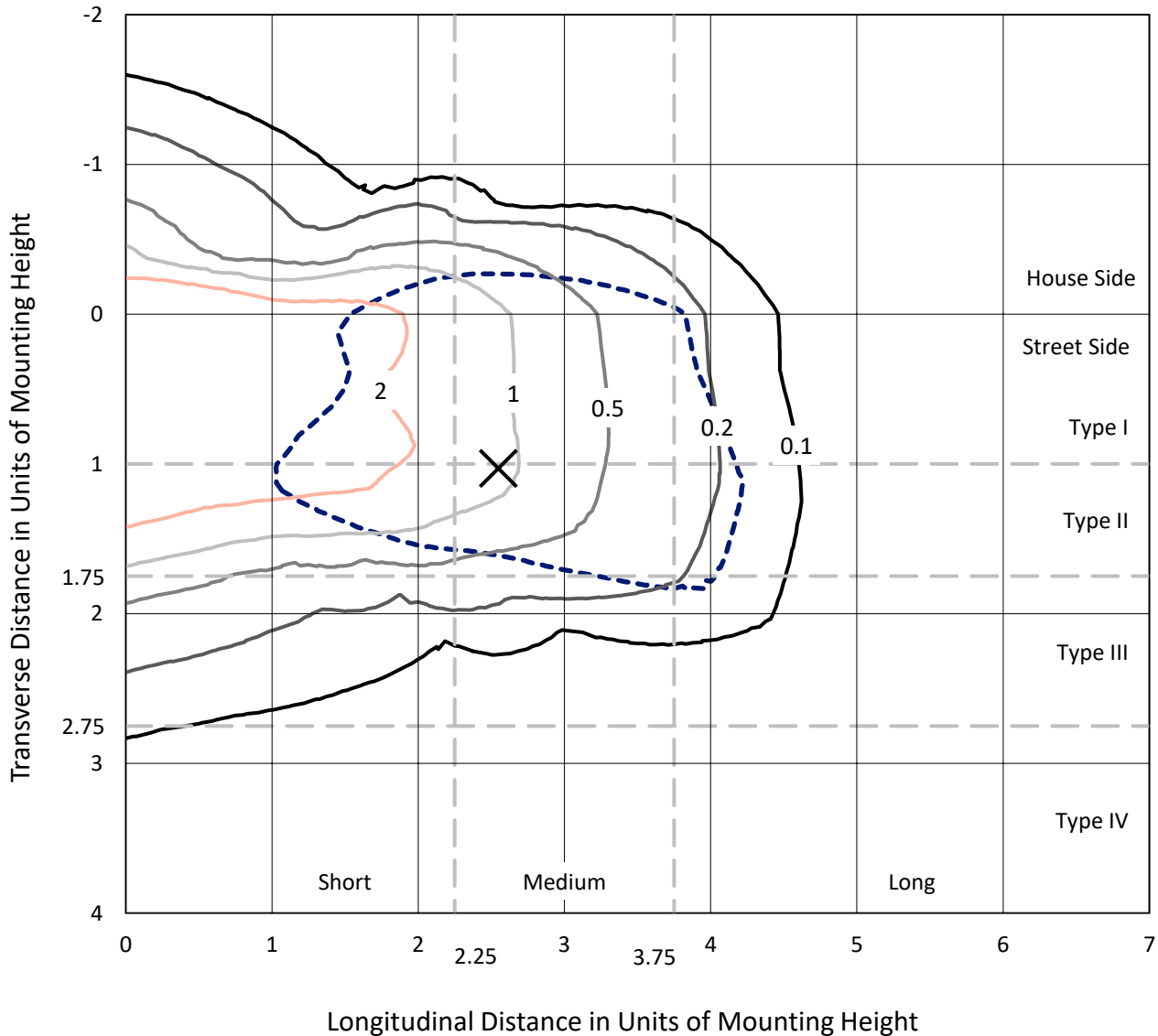
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

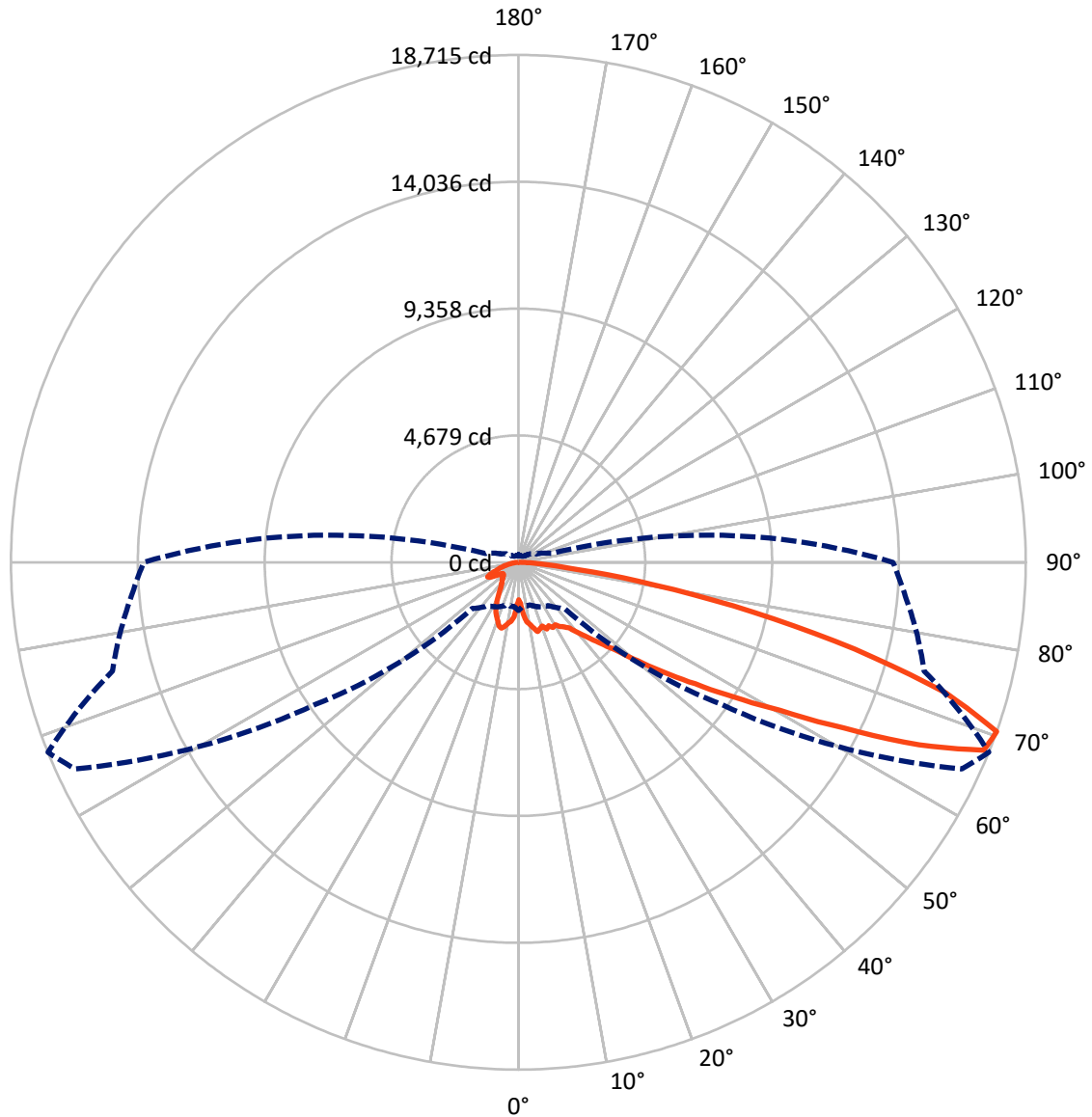
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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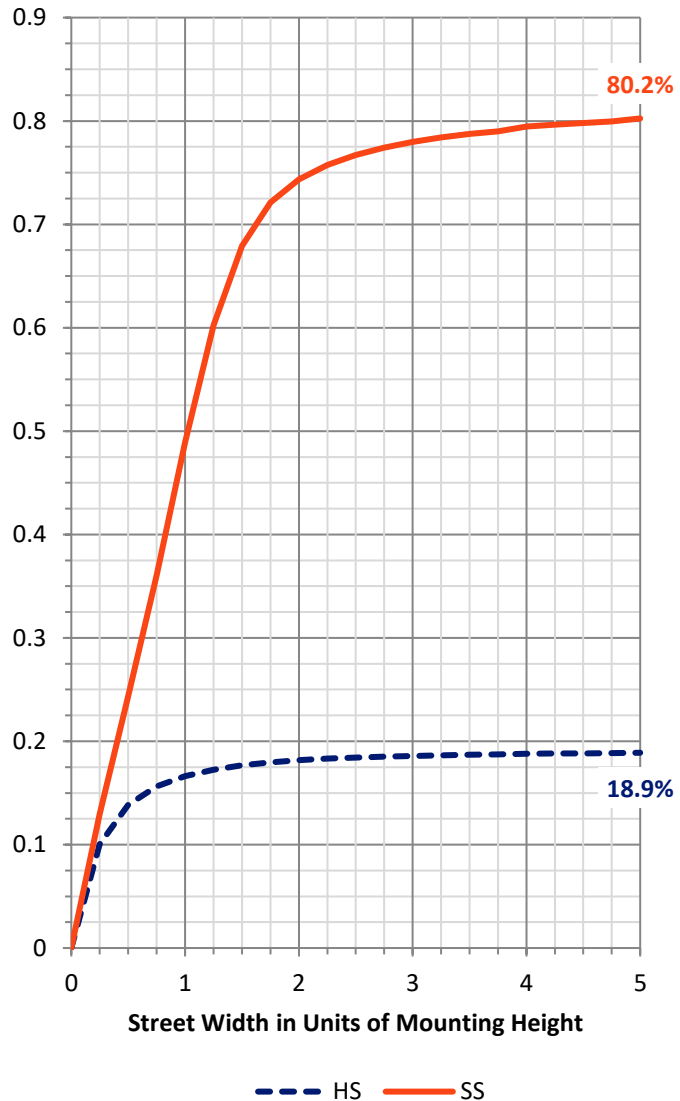
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3452.9 | 0.0 | 3452.9 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 14632.1 | 0.0 | 14632.1 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 18085.0 | 0.0 | 18085.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 185.2 | 1.0 |
| 10°-20° | 603.6 | 3.3 |
| 20°-30° | 918.2 | 5.1 |
| 30°-40° | 1402.5 | 7.8 |
| 40°-50° | 2411.5 | 13.3 |
| 50°-60° | 3991.5 | 22.1 |
| 60°-70° | 4921.0 | 27.2 |
| 70°-80° | 3161.1 | 17.5 |
| 80°-90° | 490.3 | 2.7 |
| 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° | 18085.0 | 100.0 |
| 0°-180° | 18085.0 | 100.0 |

Coefficient of Utilization



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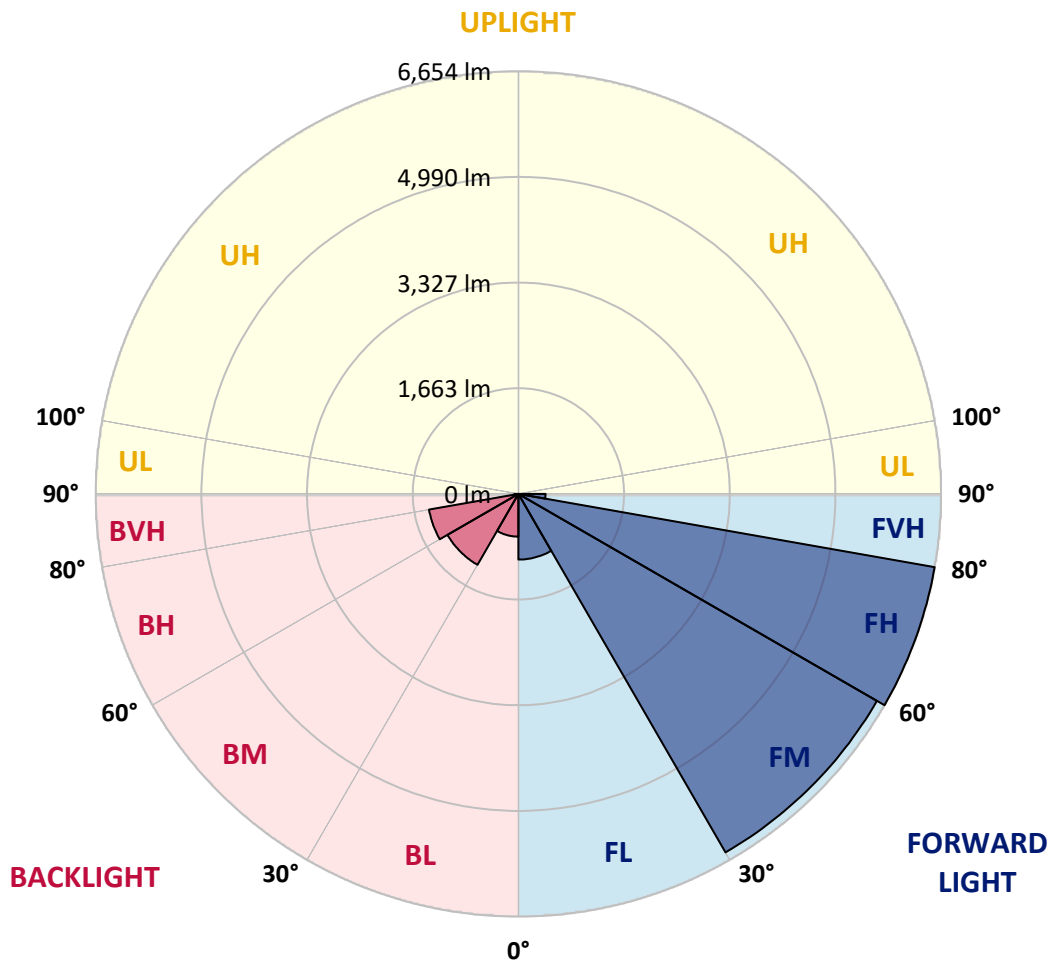
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1034.1 | 5.7 | | | |
| FM (30°-60°) | 6516.7 | 36.0 | | | |
| FH (60°-80°) | 6653.9 | 36.8 | | | G3/7500 |
| FVH (80°-90°) | 427.4 | 2.4 | | | G3/500 |
| BL (0°-30°) | 672.8 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 1288.8 | 7.1 | B2/2500 | | |
| BH (60°-80°) | 1428.3 | 7.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 62.9 | 0.3 | | | 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 III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 68° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 1386.6 | 1386.6 | 1386.6 | 1386.6 | 1386.6 | 1386.6 | 1386.6 | 1386.6 | 1386.6 | 1386.6 | 1386.6 |
| 2.5° | 1593.3 | 1528.9 | 1463.8 | 1495.6 | 1546.3 | 1591.0 | 1581.9 | 1587.2 | 1525.9 | 1517.6 | 1678.8 |
| 5° | 1877.1 | 1766.6 | 1764.3 | 1765.8 | 1770.4 | 1718.9 | 1844.6 | 1909.7 | 1924.0 | 1990.6 | 2148.8 |
| 7.5° | 1975.5 | 1930.9 | 1885.4 | 1908.1 | 1850.6 | 1855.9 | 2010.3 | 2179.9 | 2220.0 | 2268.4 | 2484.9 |
| 10° | 1955.1 | 1912.7 | 1926.3 | 1930.1 | 1940.7 | 2026.2 | 2125.4 | 2288.1 | 2322.2 | 2476.6 | 2532.6 |
| 12.5° | 1958.1 | 1950.5 | 2014.1 | 2016.4 | 2129.9 | 2283.6 | 2322.9 | 2472.8 | 2486.4 | 2600.0 | 2833.8 |
| 15° | 2061.8 | 2114.0 | 2078.4 | 2097.4 | 2119.3 | 2303.2 | 2360.0 | 2575.0 | 2656.7 | 2802.8 | 2978.4 |
| 17.5° | 2263.9 | 2279.0 | 2172.3 | 2144.3 | 2216.2 | 2272.2 | 2401.6 | 2494.7 | 2580.3 | 2988.2 | 3230.4 |
| 20° | 2310.8 | 2351.7 | 2224.5 | 2080.0 | 2232.1 | 2310.1 | 2400.1 | 2442.5 | 2509.1 | 3015.5 | 3359.1 |
| 22.5° | 2512.2 | 2427.4 | 2273.7 | 2148.1 | 2198.0 | 2273.7 | 2338.8 | 2498.5 | 2673.4 | 2937.5 | 3487.8 |
| 25° | 2626.4 | 2577.2 | 2440.2 | 2305.5 | 2263.1 | 2265.4 | 2391.0 | 2534.1 | 2594.7 | 3051.8 | 3513.5 |
| 27.5° | 2902.7 | 2824.0 | 2515.9 | 2490.2 | 2330.5 | 2206.4 | 2399.4 | 2621.9 | 2727.9 | 2962.5 | 3639.2 |
| 30° | 3248.6 | 3188.8 | 2784.6 | 2750.6 | 2506.9 | 2290.4 | 2505.3 | 2687.0 | 2671.9 | 3020.8 | 3726.2 |
| 32.5° | 3528.7 | 3628.6 | 3220.6 | 2951.9 | 2778.6 | 2571.2 | 2472.0 | 2675.6 | 2826.3 | 3156.3 | 3873.8 |
| 35° | 3928.3 | 4022.2 | 3560.5 | 3378.8 | 3002.6 | 2701.4 | 2704.4 | 2831.6 | 2924.7 | 3314.5 | 4038.8 |
| 37.5° | 4620.1 | 4537.6 | 4166.0 | 3879.1 | 3638.4 | 3188.8 | 3054.1 | 3009.4 | 3084.4 | 3508.2 | 4362.0 |
| 40° | 5118.9 | 5049.3 | 4611.8 | 4448.3 | 3979.8 | 3718.7 | 3349.3 | 3306.9 | 3439.4 | 3708.1 | 4626.2 |
| 42.5° | 5710.1 | 5585.9 | 5178.7 | 5044.0 | 4554.3 | 4083.5 | 3711.1 | 3735.3 | 3799.6 | 4085.0 | 4983.4 |
| 45° | 6311.8 | 6010.5 | 5779.7 | 5769.1 | 5442.1 | 4791.9 | 4291.6 | 4271.9 | 4274.2 | 4639.8 | 5384.6 |
| 47.5° | 6789.4 | 6518.4 | 6254.3 | 6128.6 | 5963.6 | 6017.4 | 5134.8 | 4904.0 | 4834.3 | 5198.4 | 5986.3 |
| 50° | 7112.6 | 6800.7 | 6501.8 | 6472.3 | 6912.8 | 7202.7 | 5926.5 | 5679.8 | 5722.9 | 5997.7 | 6788.6 |
| 52.5° | 7119.4 | 6749.3 | 6437.4 | 6644.1 | 7681.8 | 8096.6 | 7290.5 | 6600.9 | 6738.7 | 6925.6 | 7835.4 |
| 55° | 6624.4 | 6240.6 | 6037.8 | 6508.6 | 7982.3 | 9157.0 | 9206.9 | 8076.9 | 7917.9 | 7986.8 | 9086.6 |
| 57.5° | 5580.6 | 5193.1 | 5075.0 | 5638.9 | 7412.3 | 10179.5 | 11521.5 | 9840.5 | 9374.2 | 9086.6 | 10368.8 |
| 60° | 4200.8 | 3865.5 | 3792.1 | 4151.6 | 6145.3 | 9879.1 | 13395.6 | 12035.5 | 11085.6 | 10315.0 | 11654.7 |
| 62.5° | 3150.2 | 2909.5 | 2799.0 | 2850.5 | 4252.3 | 8901.9 | 14626.3 | 14808.8 | 13463.7 | 11656.3 | 12911.2 |
| 65° | 2559.8 | 2365.3 | 2266.9 | 2200.3 | 2644.6 | 6883.2 | 14403.8 | 17143.0 | 16241.6 | 13064.9 | 13889.1 |
| 67.5° | 2138.2 | 1965.7 | 1920.3 | 1985.3 | 2090.6 | 3993.4 | 12662.9 | 18448.7 | 18510.0 | 14454.5 | 14460.6 |
| 70° | 1774.9 | 1647.0 | 1630.4 | 1815.0 | 1953.6 | 2410.0 | 9146.4 | 18038.4 | 18715.1 | 15496.8 | 14326.6 |
| 72.5° | 1371.5 | 1302.6 | 1300.4 | 1590.2 | 1940.7 | 2054.2 | 5446.7 | 15583.1 | 16492.1 | 15163.7 | 13015.7 |
| 75° | 951.4 | 903.7 | 940.1 | 1307.2 | 1896.0 | 2083.7 | 3108.6 | 12137.7 | 12818.1 | 12903.6 | 10426.3 |
| 77.5° | 654.7 | 614.6 | 654.0 | 945.4 | 1693.2 | 2133.7 | 2174.6 | 8776.3 | 8851.9 | 8652.9 | 5971.9 |
| 80° | 455.7 | 427.6 | 457.9 | 669.1 | 1317.8 | 2111.8 | 1851.4 | 5525.4 | 5069.7 | 3861.7 | 1911.9 |
| 82.5° | 282.3 | 274.0 | 307.3 | 476.8 | 928.0 | 1921.0 | 1754.5 | 2851.2 | 2176.8 | 1065.7 | 682.7 |
| 85° | 148.4 | 136.2 | 178.6 | 311.1 | 580.5 | 1507.7 | 1644.0 | 1301.1 | 840.2 | 378.5 | 274.0 |
| 87.5° | 43.9 | 39.4 | 68.9 | 125.6 | 246.0 | 675.9 | 940.8 | 551.8 | 313.4 | 111.3 | 85.5 |
| 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° | 1386.6 | 1386.6 | 1386.6 | 1386.6 | 1386.6 | 1386.6 | 1386.6 | 1386.6 | 1386.6 | 1386.6 | 1386.6 |
| 2.5° | 1690.2 | 1681.8 | 1569.8 | 1584.2 | 1608.4 | 1614.5 | 1613.7 | 1572.8 | 1529.7 | 1650.0 | 1646.3 |
| 5° | 2152.6 | 2077.7 | 2021.7 | 2009.6 | 1940.7 | 1871.8 | 1896.0 | 1887.7 | 1877.1 | 1931.6 | 1938.4 |
| 7.5° | 2485.7 | 2382.0 | 2316.9 | 2149.6 | 1990.6 | 1852.9 | 1896.8 | 1910.4 | 1883.2 | 1981.6 | 2011.1 |
| 10° | 2573.5 | 2491.7 | 2421.3 | 2206.4 | 2118.6 | 2038.3 | 1919.5 | 1784.0 | 1765.8 | 1709.1 | 1715.9 |
| 12.5° | 2799.8 | 2788.4 | 2548.5 | 2359.3 | 2245.0 | 2085.3 | 1828.7 | 1664.4 | 1523.6 | 1530.5 | 1489.6 |
| 15° | 2978.4 | 2984.5 | 2696.1 | 2431.2 | 2124.6 | 1880.9 | 1578.9 | 1374.5 | 1230.0 | 1201.2 | 1171.7 |
| 17.5° | 3218.3 | 3206.2 | 2708.2 | 2344.9 | 1956.6 | 1599.3 | 1229.2 | 1026.4 | 1002.1 | 1018.8 | 993.1 |
| 20° | 3322.8 | 3216.1 | 2631.0 | 2130.7 | 1693.9 | 1214.8 | 928.7 | 821.2 | 868.2 | 934.8 | 936.3 |
| 22.5° | 3416.6 | 3234.2 | 2590.9 | 1958.1 | 1344.3 | 883.3 | 745.5 | 725.9 | 781.1 | 871.2 | 878.8 |
| 25° | 3412.9 | 3318.3 | 2519.0 | 1784.0 | 1042.3 | 689.5 | 647.9 | 662.3 | 728.1 | 822.0 | 827.3 |
| 27.5° | 3584.7 | 3253.9 | 2332.0 | 1555.4 | 784.9 | 590.4 | 601.0 | 627.5 | 658.5 | 747.8 | 765.2 |
| 30° | 3583.2 | 3373.5 | 2238.2 | 1277.6 | 630.5 | 541.2 | 568.4 | 591.1 | 616.9 | 698.6 | 708.5 |
| 32.5° | 3667.9 | 3295.5 | 2181.4 | 993.8 | 565.4 | 529.1 | 535.9 | 558.6 | 595.7 | 650.9 | 657.7 |
| 35° | 3770.1 | 3384.1 | 1999.7 | 789.4 | 541.2 | 518.5 | 523.8 | 536.6 | 570.7 | 621.4 | 628.2 |
| 37.5° | 4097.9 | 3400.8 | 1927.8 | 665.3 | 539.7 | 513.9 | 513.2 | 520.0 | 558.6 | 604.8 | 625.2 |
| 40° | 4225.8 | 3552.9 | 1718.2 | 621.4 | 534.4 | 513.9 | 503.3 | 507.1 | 538.9 | 598.0 | 613.8 |
| 42.5° | 4532.3 | 3603.6 | 1563.0 | 606.3 | 534.4 | 504.9 | 488.2 | 494.3 | 531.3 | 583.6 | 608.5 |
| 45° | 4847.9 | 3675.5 | 1378.3 | 603.2 | 533.6 | 504.1 | 472.3 | 485.9 | 516.2 | 560.1 | 587.4 |
| 47.5° | 5297.5 | 3934.4 | 1193.6 | 594.2 | 527.6 | 507.9 | 468.5 | 467.8 | 494.3 | 532.1 | 557.8 |
| 50° | 6031.0 | 4338.6 | 1050.6 | 582.8 | 528.3 | 504.9 | 461.0 | 450.4 | 467.8 | 501.1 | 526.0 |
| 52.5° | 7052.0 | 5027.3 | 994.6 | 576.8 | 522.3 | 492.7 | 448.1 | 431.4 | 441.3 | 467.8 | 492.0 |
| 55° | 8237.3 | 5957.6 | 1049.8 | 576.8 | 510.2 | 473.8 | 429.9 | 410.2 | 415.5 | 433.7 | 457.2 |
| 57.5° | 9622.5 | 7113.3 | 1317.0 | 568.4 | 495.0 | 451.1 | 408.0 | 385.3 | 386.8 | 402.7 | 423.9 |
| 60° | 11068.9 | 8404.6 | 1915.7 | 561.6 | 484.4 | 426.1 | 382.2 | 358.8 | 356.5 | 371.6 | 390.6 |
| 62.5° | 12517.6 | 9596.0 | 2545.5 | 577.5 | 481.4 | 404.9 | 355.0 | 331.5 | 330.8 | 344.4 | 360.3 |
| 65° | 13669.6 | 10410.4 | 2702.1 | 641.9 | 501.1 | 380.7 | 327.0 | 305.0 | 303.5 | 314.9 | 332.3 |
| 67.5° | 14235.0 | 10528.5 | 2052.7 | 722.1 | 542.7 | 358.0 | 299.7 | 279.3 | 277.8 | 289.9 | 305.0 |
| 70° | 13816.5 | 9721.6 | 1267.1 | 730.4 | 540.4 | 331.5 | 271.7 | 254.3 | 251.3 | 264.2 | 275.5 |
| 72.5° | 12267.8 | 8503.8 | 962.8 | 646.4 | 467.8 | 293.7 | 243.7 | 228.6 | 224.0 | 235.4 | 246.0 |
| 75° | 9846.5 | 6751.5 | 771.3 | 521.5 | 368.6 | 247.5 | 215.7 | 201.3 | 196.0 | 206.6 | 215.7 |
| 77.5° | 5735.8 | 3798.1 | 563.9 | 407.2 | 278.5 | 202.1 | 183.9 | 171.1 | 165.0 | 176.4 | 183.2 |
| 80° | 1865.0 | 1265.5 | 354.2 | 292.2 | 203.6 | 158.2 | 149.1 | 140.0 | 134.0 | 141.5 | 143.8 |
| 82.5° | 669.9 | 470.8 | 196.0 | 179.4 | 135.5 | 113.5 | 112.8 | 107.5 | 99.9 | 102.9 | 102.9 |
| 85° | 296.7 | 215.0 | 116.6 | 96.1 | 81.0 | 60.6 | 71.1 | 67.4 | 59.8 | 58.3 | 56.0 |
| 87.5° | 83.3 | 71.1 | 42.4 | 32.5 | 26.5 | 9.8 | 22.7 | 20.4 | 16.7 | 15.1 | 10.6 |
| 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)