

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: P368551

Luminaire Tested: **PMM-SA4C-760-U-T3-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-11)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4C-760-U-T3-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17769 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

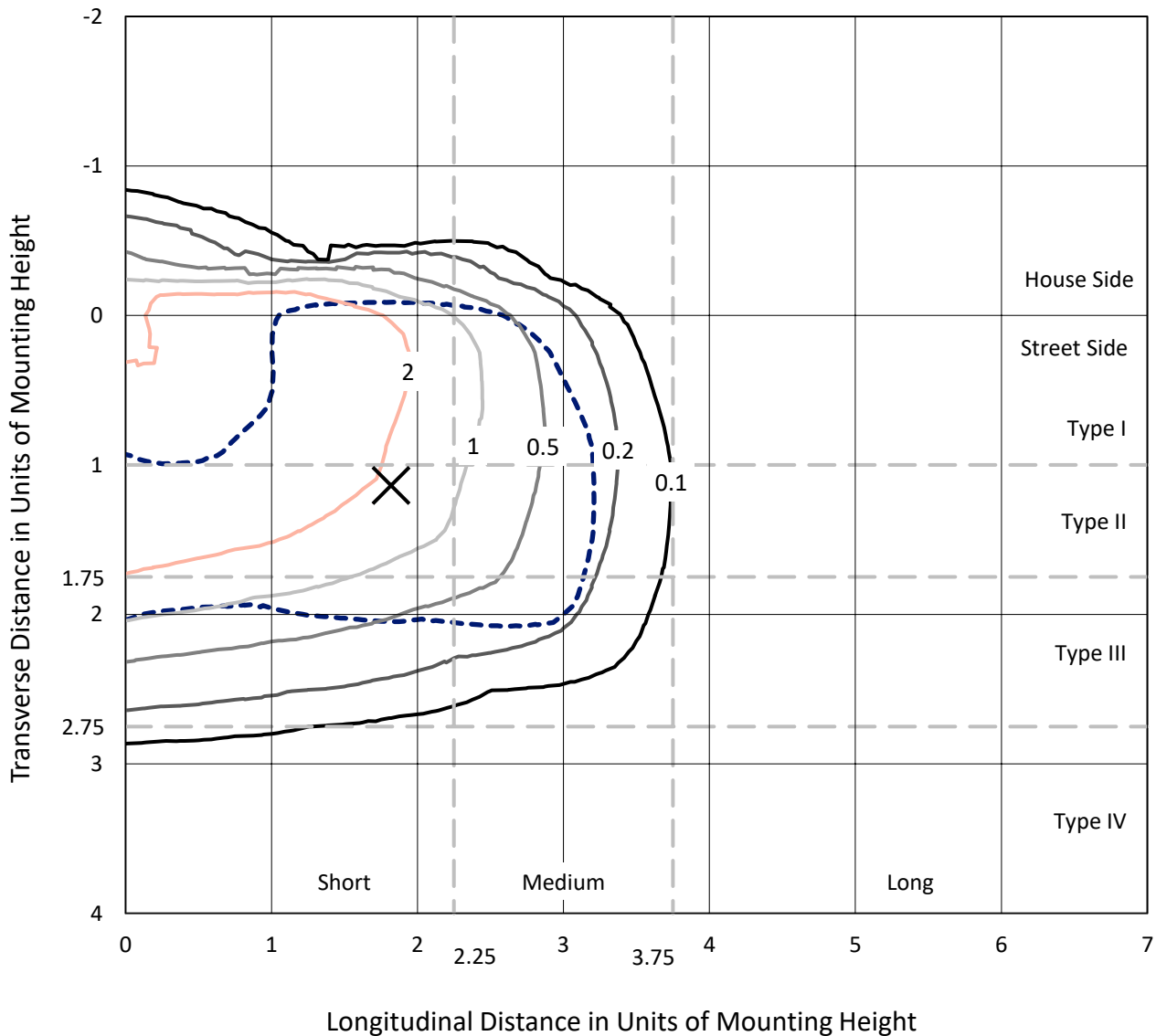
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

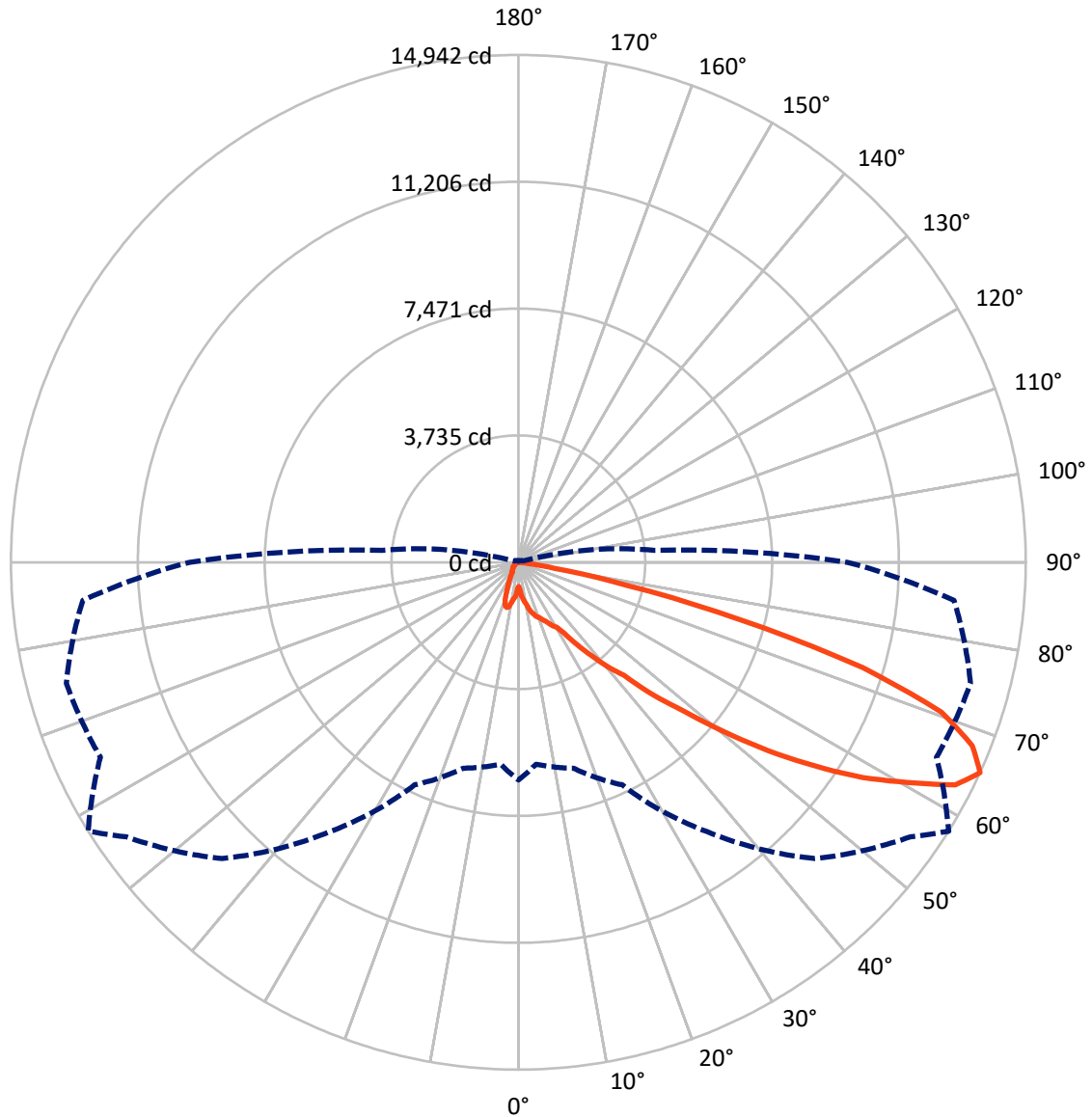
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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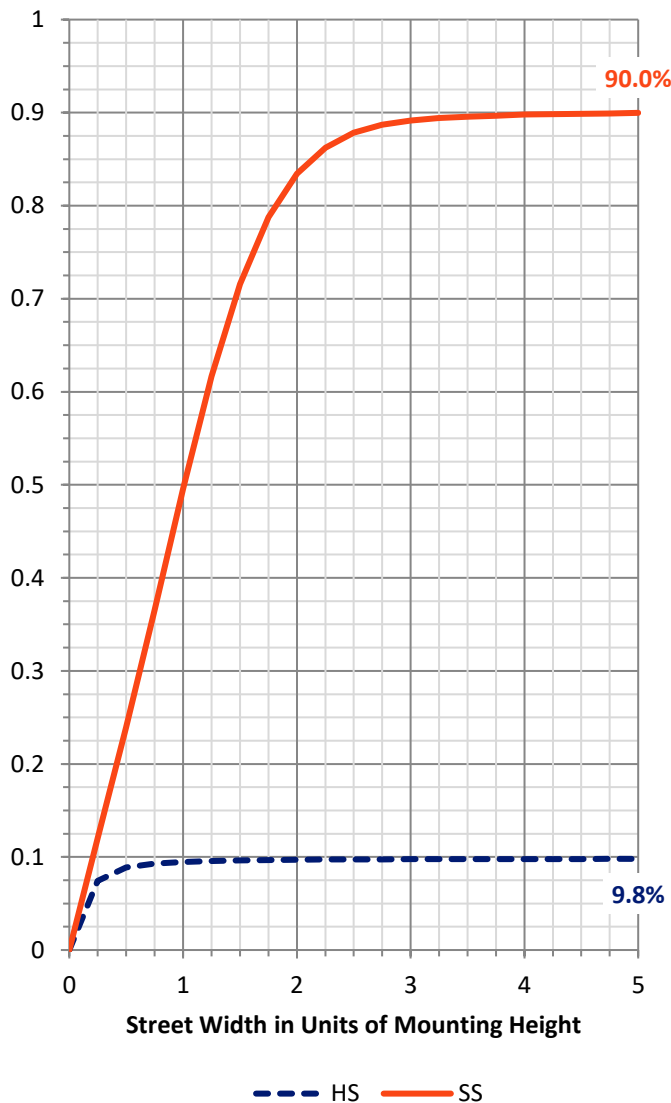
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1753.3 | 0.0 | 1753.3 |
| | % Fixture | 9.9 | 0.0 | 9.9 |
| Street Side | Lumens | 16015.7 | 0.0 | 16015.7 |
| | % Fixture | 90.1 | 0.0 | 90.1 |
| Total | Lumens | 17769.0 | 0.0 | 17769.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 100.0 | 0.6 |
| 10°-20° | 364.7 | 2.1 |
| 20°-30° | 706.0 | 4.0 |
| 30°-40° | 1408.6 | 7.9 |
| 40°-50° | 2879.7 | 16.2 |
| 50°-60° | 5107.8 | 28.7 |
| 60°-70° | 5385.0 | 30.3 |
| 70°-80° | 1745.8 | 9.8 |
| 80°-90° | 71.4 | 0.4 |
| 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° | 17769.0 | 100.0 |
| 0°-180° | 17769.0 | 100.0 |

Coefficient of Utilization



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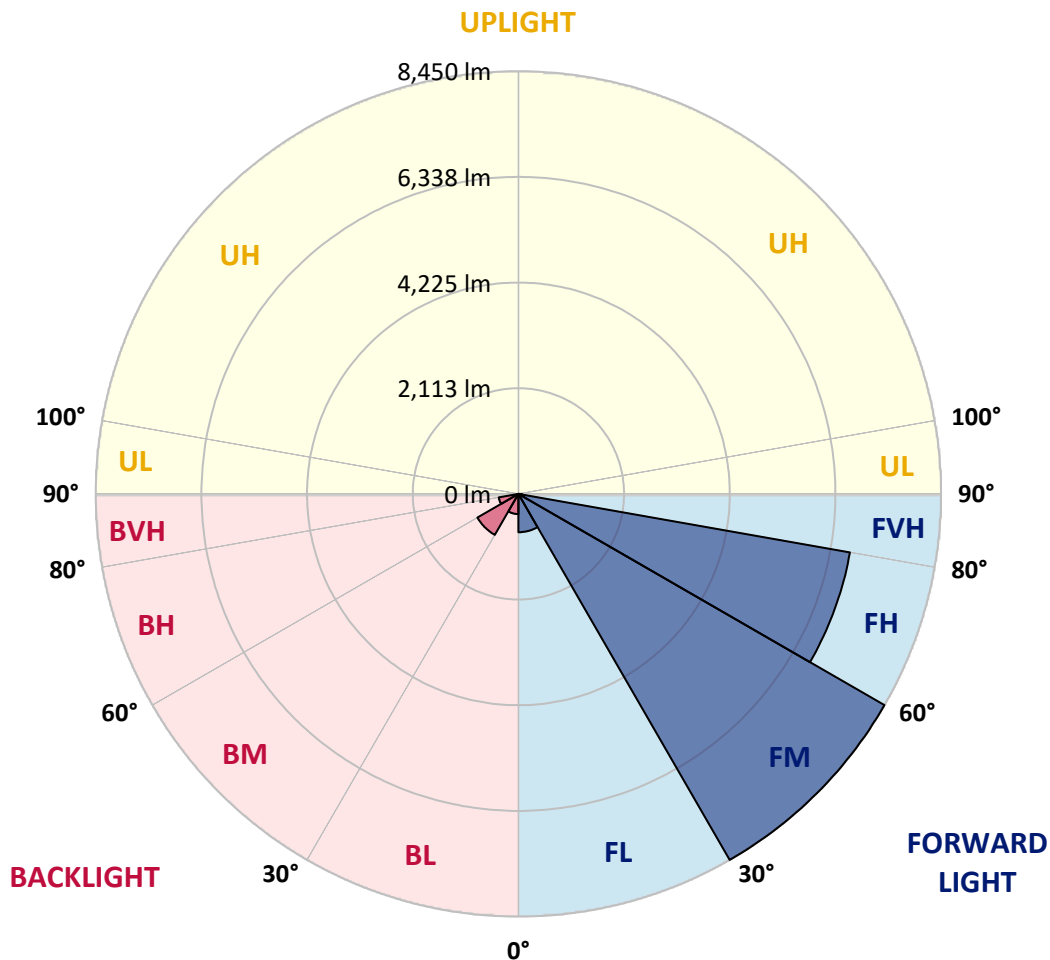
CATALOG NUMBER: PMM-SA4C-760-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 766.6 | 4.3 | | | |
| FM (30°-60°) | 8450.1 | 47.6 | | | |
| FH (60°-80°) | 6730.6 | 37.9 | | | G3/7500 |
| FVH (80°-90°) | 68.4 | 0.4 | | | G1/100 |
| BL (0°-30°) | 404.1 | 2.3 | B1/500 | | |
| BM (30°-60°) | 946.0 | 5.3 | B1/1000 | | |
| BH (60°-80°) | 400.2 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.0 | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 |
| 2.5° | 868.4 | 842.4 | 801.4 | 808.4 | 816.4 | 832.4 | 819.4 | 807.4 | 794.4 | 777.4 | 842.4 |
| 5° | 1048.5 | 1005.5 | 1001.5 | 992.4 | 985.4 | 984.4 | 1000.5 | 995.4 | 1002.5 | 1034.5 | 1067.5 |
| 7.5° | 1114.5 | 1096.5 | 1062.5 | 1076.5 | 1054.5 | 1037.5 | 1108.5 | 1131.5 | 1175.5 | 1190.5 | 1276.6 |
| 10° | 1107.5 | 1081.5 | 1095.5 | 1102.5 | 1117.5 | 1179.5 | 1224.6 | 1249.6 | 1287.6 | 1369.6 | 1352.6 |
| 12.5° | 1139.5 | 1162.5 | 1177.5 | 1178.5 | 1255.6 | 1369.6 | 1401.6 | 1422.6 | 1490.7 | 1522.7 | 1606.7 |
| 15° | 1246.6 | 1284.6 | 1260.6 | 1270.6 | 1295.6 | 1434.6 | 1509.7 | 1555.7 | 1651.7 | 1755.8 | 1776.8 |
| 17.5° | 1399.6 | 1423.6 | 1373.6 | 1337.6 | 1406.6 | 1482.7 | 1618.7 | 1666.8 | 1727.8 | 1970.9 | 2015.9 |
| 20° | 1592.7 | 1633.7 | 1525.7 | 1382.6 | 1473.7 | 1563.7 | 1711.8 | 1734.8 | 1799.8 | 2117.0 | 2188.0 |
| 22.5° | 2043.9 | 1982.9 | 1817.8 | 1594.7 | 1567.7 | 1607.7 | 1748.8 | 1838.8 | 1948.9 | 2199.0 | 2364.1 |
| 25° | 2489.1 | 2468.1 | 2225.0 | 1975.9 | 1795.8 | 1705.8 | 1892.9 | 1942.9 | 2123.0 | 2394.1 | 2485.1 |
| 27.5° | 2984.3 | 3026.4 | 2620.2 | 2469.1 | 2116.0 | 1821.8 | 1982.9 | 2108.0 | 2321.0 | 2465.1 | 2684.2 |
| 30° | 3637.6 | 3570.6 | 3094.4 | 2943.3 | 2540.1 | 2141.0 | 2216.0 | 2224.0 | 2537.1 | 2699.2 | 2907.3 |
| 32.5° | 4149.9 | 4192.9 | 3594.6 | 3362.5 | 3040.4 | 2632.2 | 2391.1 | 2495.1 | 2719.2 | 3080.4 | 3277.5 |
| 35° | 4704.1 | 4700.1 | 4116.9 | 3804.7 | 3383.5 | 3033.4 | 2910.3 | 2986.3 | 3267.5 | 3676.7 | 3728.7 |
| 37.5° | 5532.5 | 5461.5 | 4773.2 | 4315.9 | 3957.8 | 3658.6 | 3564.6 | 3463.6 | 3753.7 | 4143.9 | 4339.0 |
| 40° | 6313.8 | 6068.7 | 5432.4 | 4890.2 | 4432.0 | 4309.9 | 3969.8 | 4031.8 | 4117.9 | 4633.1 | 5172.3 |
| 42.5° | 7103.2 | 6951.1 | 6100.7 | 5646.5 | 5083.3 | 4793.2 | 4571.1 | 4542.0 | 4951.2 | 5561.5 | 6118.8 |
| 45° | 8144.7 | 7679.5 | 6999.2 | 6600.0 | 5947.7 | 5656.5 | 5477.5 | 5584.5 | 5952.7 | 6844.1 | 7215.3 |
| 47.5° | 9019.1 | 8590.9 | 8006.6 | 7400.3 | 6716.0 | 7043.2 | 6707.0 | 6537.9 | 7043.2 | 7964.6 | 8457.8 |
| 50° | 9770.4 | 9293.2 | 8701.9 | 8252.7 | 8141.7 | 8455.8 | 7775.5 | 7837.5 | 8165.7 | 9248.2 | 9526.3 |
| 52.5° | 10316.6 | 9814.4 | 9298.2 | 9081.1 | 9536.3 | 9694.4 | 9353.2 | 9216.2 | 9514.3 | 10342.7 | 10477.7 |
| 55° | 10727.8 | 10213.6 | 9810.4 | 10109.6 | 10990.0 | 10937.9 | 11058.0 | 10589.8 | 10874.9 | 11484.2 | 11420.1 |
| 57.5° | 10752.8 | 10143.6 | 9907.5 | 10388.7 | 11597.2 | 12402.6 | 12753.7 | 11957.4 | 12119.5 | 12376.6 | 12232.5 |
| 60° | 9966.5 | 9360.2 | 9341.2 | 10024.5 | 11773.3 | 12781.8 | 13550.1 | 13161.9 | 12944.8 | 13135.9 | 12862.8 |
| 62.5° | 8399.8 | 7975.6 | 8173.7 | 8929.0 | 11118.0 | 12572.7 | 13974.3 | 14441.5 | 13596.1 | 13639.1 | 13251.0 |
| 65° | 6413.9 | 5968.7 | 6278.8 | 7230.3 | 9685.4 | 12338.6 | 14094.4 | 14941.7 | 13584.1 | 13782.2 | 12878.8 |
| 67.5° | 4247.9 | 3989.8 | 4341.0 | 5389.4 | 7700.5 | 10891.9 | 14032.3 | 14416.5 | 13152.9 | 13223.0 | 11497.2 |
| 70° | 2193.0 | 2130.0 | 2414.1 | 3241.5 | 5177.3 | 8367.8 | 13423.0 | 13213.0 | 12277.5 | 11391.1 | 8868.0 |
| 72.5° | 702.3 | 705.3 | 978.4 | 1480.7 | 2791.3 | 5094.3 | 10317.7 | 10605.8 | 9824.4 | 8332.8 | 5414.4 |
| 75° | 311.1 | 306.1 | 409.2 | 621.3 | 1163.5 | 2284.0 | 6409.9 | 6721.0 | 6116.8 | 4584.1 | 2276.0 |
| 77.5° | 224.1 | 217.1 | 262.1 | 363.2 | 576.3 | 774.3 | 3005.4 | 3243.5 | 2773.2 | 1588.7 | 521.2 |
| 80° | 158.1 | 157.1 | 190.1 | 255.1 | 360.2 | 344.2 | 949.4 | 1064.5 | 852.4 | 385.2 | 153.1 |
| 82.5° | 89.0 | 92.0 | 132.1 | 180.1 | 219.1 | 172.1 | 267.1 | 294.1 | 287.1 | 205.1 | 67.0 |
| 85° | 43.0 | 48.0 | 86.0 | 130.1 | 115.1 | 67.0 | 95.0 | 103.0 | 120.1 | 119.1 | 34.0 |
| 87.5° | 0.0 | 0.0 | 35.0 | 59.0 | 31.0 | 10.0 | 29.0 | 33.0 | 32.0 | 38.0 | 8.0 |
| 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° | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 |
| 2.5° | 855.4 | 849.4 | 773.3 | 779.4 | 796.4 | 789.4 | 795.4 | 781.4 | 765.3 | 830.4 | 829.4 |
| 5° | 1081.5 | 1036.5 | 1012.5 | 990.4 | 994.4 | 949.4 | 975.4 | 987.4 | 985.4 | 1022.5 | 1032.5 |
| 7.5° | 1279.6 | 1219.5 | 1171.5 | 1125.5 | 1055.5 | 992.4 | 1031.5 | 1056.5 | 1073.5 | 1137.5 | 1162.5 |
| 10° | 1372.6 | 1323.6 | 1304.6 | 1214.5 | 1164.5 | 1125.5 | 1078.5 | 1044.5 | 1058.5 | 1041.5 | 1058.5 |
| 12.5° | 1576.7 | 1543.7 | 1470.7 | 1379.6 | 1319.6 | 1239.6 | 1064.5 | 918.4 | 828.4 | 829.4 | 823.4 |
| 15° | 1762.8 | 1760.8 | 1651.7 | 1500.7 | 1326.6 | 1098.5 | 825.4 | 641.3 | 556.3 | 532.2 | 524.2 |
| 17.5° | 2005.9 | 1975.9 | 1776.8 | 1553.7 | 1240.6 | 850.4 | 562.3 | 439.2 | 431.2 | 445.2 | 439.2 |
| 20° | 2161.0 | 2117.0 | 1838.8 | 1476.7 | 1022.5 | 575.3 | 424.2 | 389.2 | 413.2 | 433.2 | 428.2 |
| 22.5° | 2316.0 | 2250.0 | 1885.8 | 1382.6 | 727.3 | 421.2 | 383.2 | 377.2 | 392.2 | 417.2 | 421.2 |
| 25° | 2401.1 | 2388.1 | 1977.9 | 1206.5 | 498.2 | 369.2 | 369.2 | 367.2 | 372.2 | 390.2 | 387.2 |
| 27.5° | 2648.2 | 2472.1 | 1908.9 | 941.4 | 385.2 | 339.2 | 344.2 | 342.2 | 324.1 | 342.2 | 343.2 |
| 30° | 2802.3 | 2721.2 | 1913.9 | 670.3 | 339.2 | 300.1 | 313.1 | 297.1 | 270.1 | 285.1 | 282.1 |
| 32.5° | 3112.4 | 2910.3 | 1898.9 | 452.2 | 309.1 | 286.1 | 266.1 | 243.1 | 223.1 | 229.1 | 224.1 |
| 35° | 3473.6 | 3319.5 | 1695.8 | 363.2 | 288.1 | 253.1 | 221.1 | 198.1 | 177.1 | 182.1 | 181.1 |
| 37.5° | 4191.9 | 3702.7 | 1527.7 | 327.1 | 274.1 | 232.1 | 195.1 | 163.1 | 152.1 | 155.1 | 158.1 |
| 40° | 4857.2 | 4342.0 | 1214.5 | 311.1 | 250.1 | 207.1 | 161.1 | 138.1 | 131.1 | 133.1 | 136.1 |
| 42.5° | 5851.6 | 4850.2 | 917.4 | 295.1 | 226.1 | 175.1 | 134.1 | 119.1 | 112.1 | 116.1 | 118.1 |
| 45° | 6814.1 | 5282.4 | 685.3 | 281.1 | 206.1 | 151.1 | 113.1 | 103.0 | 95.0 | 98.0 | 102.0 |
| 47.5° | 7775.5 | 5762.6 | 511.2 | 259.1 | 184.1 | 130.1 | 97.0 | 90.0 | 85.0 | 86.0 | 91.0 |
| 50° | 8635.9 | 5986.7 | 402.2 | 232.1 | 166.1 | 113.1 | 88.0 | 81.0 | 79.0 | 80.0 | 84.0 |
| 52.5° | 9268.2 | 5988.7 | 339.2 | 208.1 | 149.1 | 100.0 | 83.0 | 75.0 | 74.0 | 76.0 | 80.0 |
| 55° | 9839.4 | 5828.6 | 294.1 | 187.1 | 134.1 | 91.0 | 79.0 | 72.0 | 72.0 | 74.0 | 78.0 |
| 57.5° | 10218.6 | 5534.5 | 255.1 | 165.1 | 121.1 | 86.0 | 76.0 | 69.0 | 68.0 | 67.0 | 70.0 |
| 60° | 10403.7 | 5133.3 | 216.1 | 145.1 | 109.0 | 83.0 | 74.0 | 61.0 | 60.0 | 58.0 | 60.0 |
| 62.5° | 10286.6 | 4631.1 | 181.1 | 125.1 | 97.0 | 79.0 | 65.0 | 53.0 | 51.0 | 47.0 | 50.0 |
| 65° | 9688.4 | 4020.8 | 153.1 | 107.0 | 84.0 | 67.0 | 55.0 | 45.0 | 40.0 | 35.0 | 34.0 |
| 67.5° | 8464.8 | 3266.5 | 128.1 | 92.0 | 72.0 | 55.0 | 45.0 | 40.0 | 31.0 | 27.0 | 26.0 |
| 70° | 6343.9 | 2230.0 | 106.0 | 79.0 | 60.0 | 47.0 | 38.0 | 36.0 | 29.0 | 26.0 | 24.0 |
| 72.5° | 3721.7 | 1203.5 | 89.0 | 69.0 | 51.0 | 39.0 | 31.0 | 33.0 | 29.0 | 24.0 | 22.0 |
| 75° | 1486.7 | 400.2 | 71.0 | 55.0 | 41.0 | 28.0 | 26.0 | 27.0 | 26.0 | 22.0 | 18.0 |
| 77.5° | 339.2 | 126.1 | 55.0 | 43.0 | 32.0 | 18.0 | 21.0 | 23.0 | 23.0 | 18.0 | 13.0 |
| 80° | 106.0 | 50.0 | 32.0 | 27.0 | 23.0 | 10.0 | 15.0 | 16.0 | 11.0 | 5.0 | 0.0 |
| 82.5° | 34.0 | 14.0 | 11.0 | 11.0 | 10.0 | 2.0 | 3.0 | 2.0 | 0.0 | 0.0 | 0.0 |
| 85° | 13.0 | 9.0 | 7.0 | 7.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.0 | 4.0 | 3.0 | 4.0 | 2.0 | 0.0 | 0.0 | 0.0 | 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)