

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: P598143

Luminaire Tested: **PMM-SA3D-827-U-T4FT-HSS**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-13)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA3D-827-U-T4FT-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10957 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

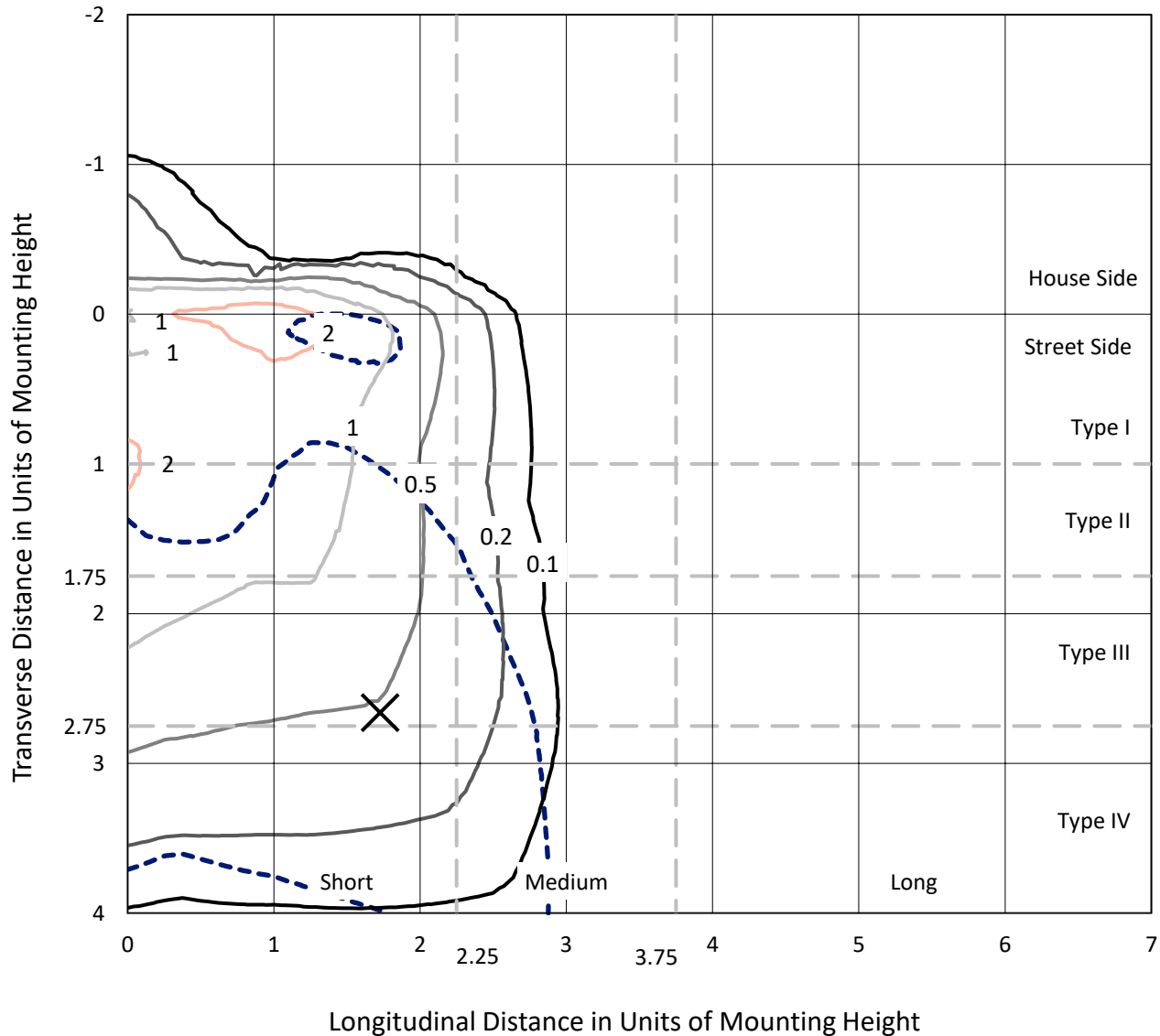
Input Watts (W): 192
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

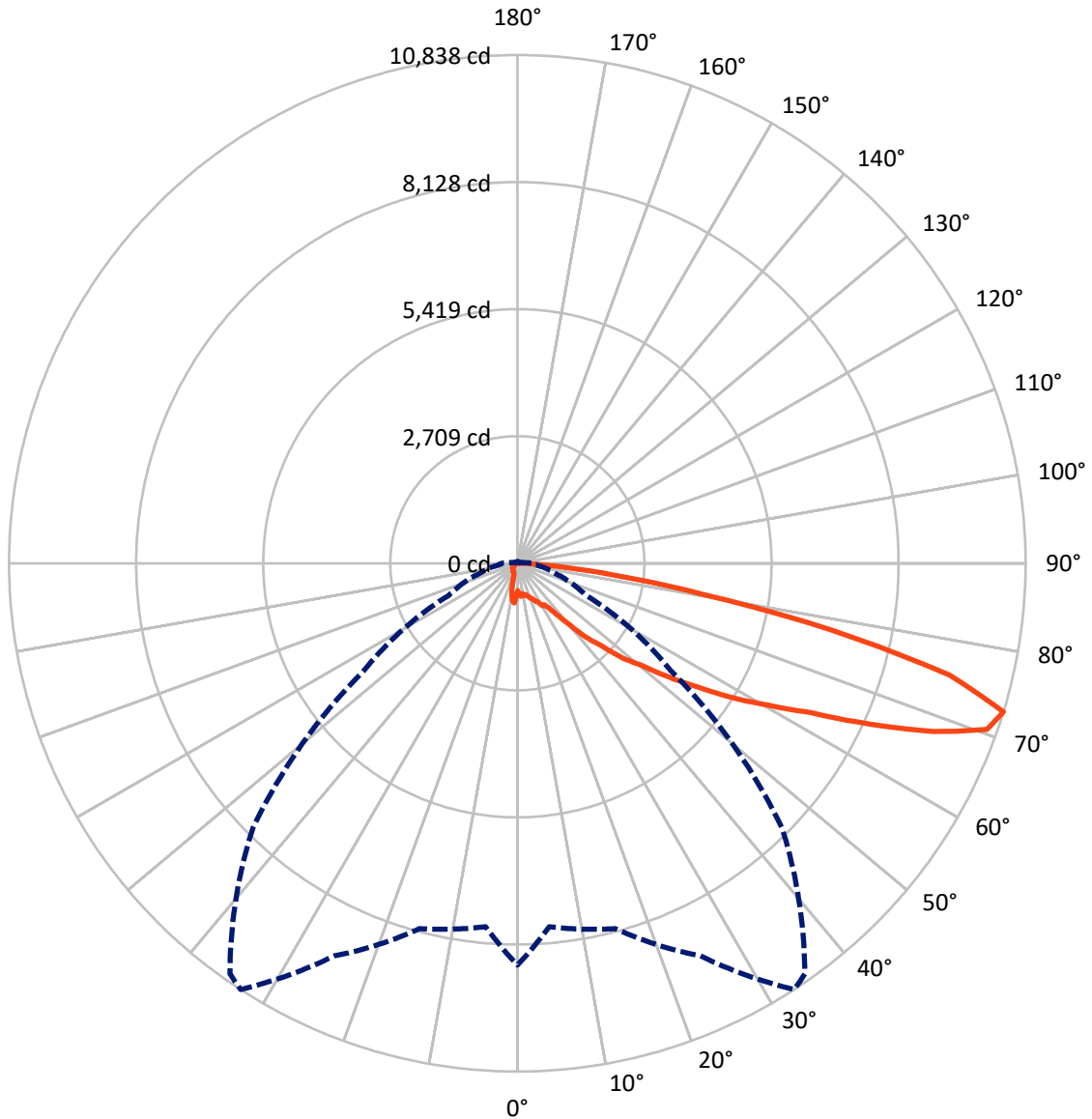
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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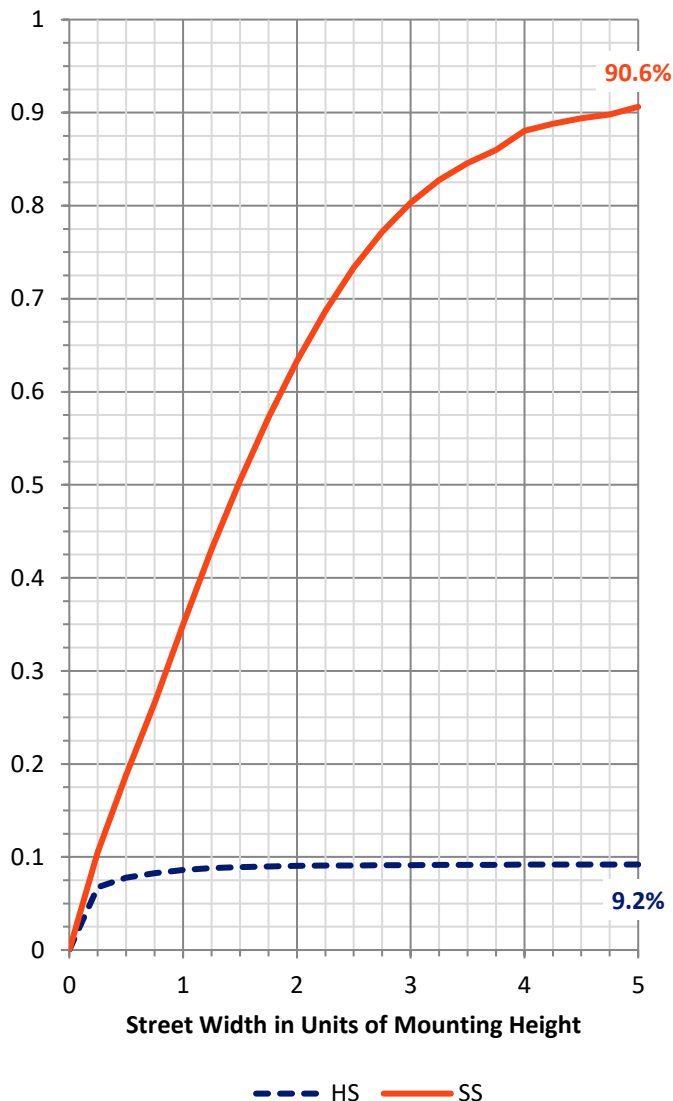
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1013.1 | 0.0 | 1013.1 |
| | % Fixture | 9.2 | 0.0 | 9.2 |
| Street Side | Lumens | 9943.9 | 0.0 | 9943.9 |
| | % Fixture | 90.8 | 0.0 | 90.8 |
| Total | Lumens | 10957.0 | 0.0 | 10957.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 75.4 | 0.7 |
| 10°-20° | 224.8 | 2.1 |
| 20°-30° | 381.2 | 3.5 |
| 30°-40° | 697.6 | 6.4 |
| 40°-50° | 1472.4 | 13.4 |
| 50°-60° | 2463.4 | 22.5 |
| 60°-70° | 3297.4 | 30.1 |
| 70°-80° | 2153.9 | 19.7 |
| 80°-90° | 191.0 | 1.7 |
| 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° | 10957.0 | 100.0 |
| 0°-180° | 10957.0 | 100.0 |

Coefficient of Utilization



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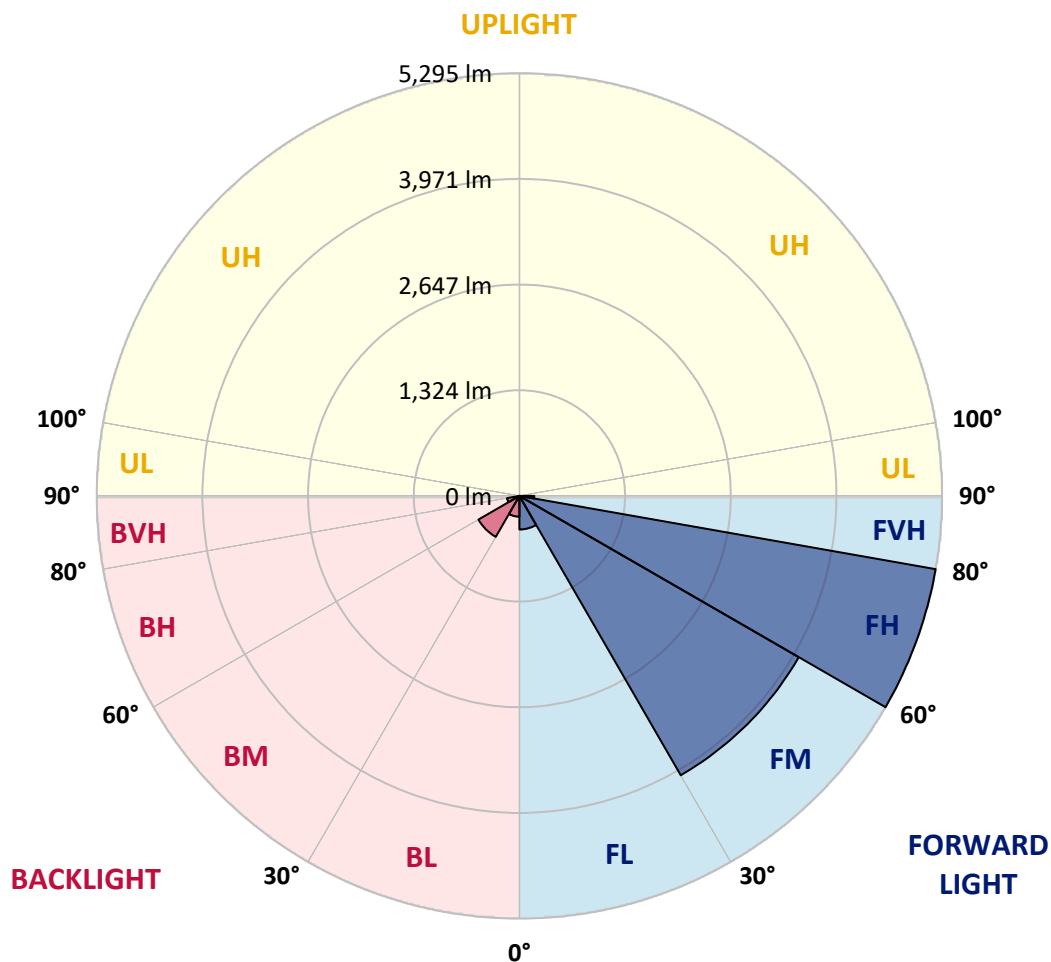
CATALOG NUMBER: PMM-SA3D-827-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 420.6 | 3.8 | | | |
| FM (30°-60°) | 4041.1 | 36.9 | | | |
| FH (60°-80°) | 5294.9 | 48.3 | | | G3/7500 |
| FVH (80°-90°) | 187.3 | 1.7 | | | G2/225 |
| BL (0°-30°) | 260.8 | 2.4 | B1/500 | | |
| BM (30°-60°) | 592.3 | 5.4 | B1/1000 | | |
| BH (60°-80°) | 156.4 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.7 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 582.8 | 582.8 | 582.8 | 582.8 | 582.8 | 582.8 | 582.8 | 582.8 | 582.8 | 582.8 | 582.8 |
| 2.5° | 694.7 | 668.0 | 629.0 | 631.5 | 638.1 | 643.6 | 658.2 | 652.1 | 640.6 | 640.0 | 694.7 |
| 5° | 736.1 | 706.3 | 703.8 | 707.5 | 705.7 | 715.4 | 703.2 | 742.8 | 776.2 | 816.4 | 880.9 |
| 7.5° | 716.0 | 702.0 | 684.4 | 702.6 | 702.0 | 697.2 | 705.1 | 785.4 | 866.3 | 917.4 | 1023.8 |
| 10° | 658.2 | 642.4 | 655.8 | 661.9 | 657.6 | 678.9 | 731.8 | 797.5 | 894.3 | 1001.3 | 1053.0 |
| 12.5° | 641.8 | 651.5 | 656.4 | 656.4 | 697.2 | 708.1 | 789.0 | 851.1 | 966.0 | 1050.6 | 1200.9 |
| 15° | 705.7 | 724.5 | 691.1 | 683.8 | 696.5 | 702.6 | 792.7 | 867.5 | 1014.7 | 1169.2 | 1295.1 |
| 17.5° | 807.3 | 806.0 | 754.3 | 725.7 | 745.8 | 760.4 | 810.3 | 897.9 | 984.3 | 1262.3 | 1444.8 |
| 20° | 877.2 | 878.4 | 785.4 | 725.7 | 792.1 | 800.6 | 855.9 | 925.9 | 994.0 | 1309.1 | 1542.7 |
| 22.5° | 967.3 | 935.0 | 832.2 | 774.4 | 819.4 | 827.3 | 888.2 | 943.5 | 1043.9 | 1303.7 | 1668.1 |
| 25° | 1040.9 | 1020.2 | 890.6 | 850.5 | 890.6 | 879.7 | 935.0 | 1018.4 | 1097.4 | 1390.7 | 1741.7 |
| 27.5° | 1155.2 | 1119.9 | 932.0 | 939.3 | 936.8 | 944.7 | 957.5 | 1085.3 | 1191.7 | 1394.9 | 1912.0 |
| 30° | 1261.7 | 1241.0 | 1024.4 | 1024.4 | 1048.2 | 1033.0 | 1042.1 | 1196.6 | 1283.0 | 1493.5 | 2103.6 |
| 32.5° | 1371.8 | 1373.0 | 1133.3 | 1075.5 | 1056.7 | 1119.3 | 1180.8 | 1250.7 | 1393.1 | 1662.6 | 2396.8 |
| 35° | 1663.2 | 1638.9 | 1342.0 | 1197.8 | 1182.6 | 1179.0 | 1277.5 | 1466.7 | 1588.4 | 1882.8 | 2791.7 |
| 37.5° | 2250.2 | 2165.7 | 1790.9 | 1475.2 | 1418.0 | 1398.6 | 1510.5 | 1704.6 | 1825.6 | 2206.4 | 3444.4 |
| 40° | 2852.5 | 2697.4 | 2281.3 | 1925.4 | 1739.8 | 1655.9 | 1786.1 | 1950.9 | 2166.3 | 2564.1 | 4048.5 |
| 42.5° | 3381.1 | 3189.5 | 2650.5 | 2410.8 | 2169.3 | 2132.8 | 2010.5 | 2278.8 | 2652.9 | 3084.9 | 4640.4 |
| 45° | 3896.4 | 3519.2 | 2979.0 | 2789.2 | 2496.0 | 2516.7 | 2475.3 | 2707.7 | 3158.5 | 3655.5 | 5165.4 |
| 47.5° | 4251.0 | 3912.2 | 3381.7 | 3135.4 | 3018.0 | 2896.9 | 3225.4 | 3466.9 | 3608.6 | 4018.1 | 5619.2 |
| 50° | 4633.1 | 4290.0 | 3727.9 | 3555.7 | 3401.2 | 3523.5 | 3949.9 | 3982.2 | 3970.6 | 4356.3 | 5928.2 |
| 52.5° | 5126.4 | 4721.9 | 4125.1 | 3930.5 | 4018.1 | 4139.7 | 4631.9 | 4637.9 | 4292.4 | 4641.0 | 6150.9 |
| 55° | 5582.7 | 5134.3 | 4654.4 | 4470.7 | 4653.8 | 4756.6 | 5302.2 | 5102.1 | 4479.8 | 4834.4 | 6260.4 |
| 57.5° | 6225.7 | 5706.8 | 5358.2 | 5034.6 | 5405.7 | 5307.1 | 5891.7 | 5594.3 | 4690.3 | 4962.8 | 6220.2 |
| 60° | 7038.4 | 6427.7 | 6078.5 | 5736.0 | 6133.8 | 6200.8 | 6467.2 | 5840.0 | 4771.8 | 5004.8 | 5978.7 |
| 62.5° | 7865.2 | 7250.7 | 6791.5 | 6559.1 | 7010.5 | 7230.7 | 7000.1 | 5962.3 | 4673.8 | 4922.6 | 5431.8 |
| 65° | 8890.8 | 8104.2 | 7567.7 | 7431.4 | 8267.9 | 8591.5 | 7630.3 | 5992.1 | 4484.6 | 4470.7 | 4367.2 |
| 67.5° | 9593.4 | 8827.6 | 8335.4 | 8563.5 | 9574.0 | 9600.1 | 8196.1 | 6001.2 | 3847.7 | 3500.4 | 2866.5 |
| 70° | 9760.1 | 8940.1 | 8719.9 | 9391.5 | 10616.1 | 10286.9 | 8378.6 | 5538.9 | 2853.7 | 2077.5 | 1310.4 |
| 72.5° | 8567.8 | 7778.2 | 8064.7 | 9235.1 | 10837.5 | 10686.6 | 7975.3 | 3996.2 | 1606.6 | 831.0 | 402.1 |
| 75° | 5255.4 | 4777.9 | 6049.9 | 7829.9 | 9513.1 | 9415.8 | 6222.1 | 2064.7 | 647.3 | 332.2 | 150.3 |
| 77.5° | 2285.5 | 2122.5 | 3157.3 | 5195.2 | 6835.9 | 6748.9 | 3645.8 | 760.4 | 334.6 | 233.6 | 76.0 |
| 80° | 756.2 | 733.7 | 1196.0 | 2460.1 | 4004.1 | 3927.4 | 1536.0 | 316.3 | 238.5 | 187.4 | 42.6 |
| 82.5° | 179.5 | 178.2 | 417.3 | 1132.1 | 2039.7 | 1975.9 | 471.5 | 174.6 | 172.8 | 147.8 | 22.5 |
| 85° | 45.0 | 46.2 | 115.6 | 462.9 | 828.6 | 730.6 | 122.9 | 87.0 | 121.7 | 100.4 | 11.6 |
| 87.5° | 0.0 | 0.0 | 29.8 | 66.3 | 125.3 | 78.5 | 13.4 | 23.1 | 34.1 | 35.9 | 6.1 |
| 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° | 582.8 | 582.8 | 582.8 | 582.8 | 582.8 | 582.8 | 582.8 | 582.8 | 582.8 | 582.8 | 582.8 |
| 2.5° | 706.9 | 700.2 | 645.4 | 658.8 | 679.5 | 677.7 | 691.1 | 680.7 | 671.6 | 716.6 | 712.4 |
| 5° | 899.1 | 862.6 | 845.6 | 869.3 | 856.5 | 826.7 | 851.7 | 847.4 | 840.1 | 855.3 | 866.9 |
| 7.5° | 1043.3 | 1009.8 | 994.6 | 944.7 | 872.4 | 815.2 | 824.3 | 803.0 | 782.9 | 806.7 | 831.0 |
| 10° | 1090.7 | 1072.5 | 1070.7 | 973.3 | 905.2 | 822.5 | 724.5 | 640.0 | 617.5 | 587.7 | 601.0 |
| 12.5° | 1219.7 | 1230.7 | 1161.9 | 1048.2 | 916.8 | 758.0 | 584.0 | 464.2 | 415.5 | 383.9 | 385.7 |
| 15° | 1325.6 | 1363.9 | 1264.1 | 1059.7 | 806.7 | 577.9 | 388.7 | 281.1 | 250.6 | 242.7 | 240.3 |
| 17.5° | 1483.1 | 1520.2 | 1295.8 | 977.6 | 650.3 | 391.8 | 250.0 | 219.0 | 220.8 | 226.3 | 225.1 |
| 20° | 1599.9 | 1594.4 | 1268.4 | 832.2 | 479.4 | 256.7 | 209.3 | 205.0 | 214.7 | 230.6 | 226.9 |
| 22.5° | 1712.5 | 1674.7 | 1251.3 | 697.8 | 310.3 | 206.2 | 202.0 | 201.4 | 210.5 | 225.7 | 230.0 |
| 25° | 1792.8 | 1798.8 | 1222.8 | 546.3 | 225.7 | 191.6 | 195.3 | 200.8 | 209.9 | 226.3 | 223.9 |
| 27.5° | 2022.7 | 1852.4 | 1103.5 | 396.6 | 190.4 | 183.7 | 192.8 | 203.8 | 206.8 | 227.5 | 228.1 |
| 30° | 2171.8 | 2054.3 | 1025.7 | 267.1 | 175.8 | 169.7 | 188.0 | 202.6 | 206.2 | 233.0 | 234.8 |
| 32.5° | 2431.5 | 2141.3 | 935.6 | 198.3 | 163.6 | 165.5 | 177.0 | 196.5 | 213.5 | 242.1 | 243.3 |
| 35° | 2754.5 | 2420.6 | 772.6 | 178.2 | 159.4 | 156.3 | 161.8 | 184.3 | 212.3 | 243.3 | 249.4 |
| 37.5° | 3369.6 | 2587.9 | 612.6 | 172.8 | 159.4 | 153.9 | 159.4 | 172.8 | 208.7 | 255.5 | 268.3 |
| 40° | 3781.4 | 2928.5 | 441.7 | 171.6 | 156.3 | 151.5 | 153.3 | 166.7 | 198.3 | 248.2 | 267.1 |
| 42.5° | 4288.8 | 3072.1 | 325.5 | 168.5 | 153.3 | 146.0 | 147.2 | 164.3 | 188.0 | 233.0 | 247.0 |
| 45° | 4704.3 | 3176.7 | 256.1 | 167.3 | 146.0 | 143.6 | 146.0 | 162.4 | 178.2 | 200.1 | 212.9 |
| 47.5° | 5020.0 | 3298.4 | 205.6 | 159.4 | 144.2 | 143.6 | 140.5 | 152.1 | 161.8 | 167.3 | 175.8 |
| 50° | 5251.1 | 3271.0 | 170.3 | 147.2 | 138.1 | 141.7 | 136.3 | 138.1 | 140.5 | 137.5 | 147.2 |
| 52.5° | 5392.9 | 3172.5 | 141.7 | 132.6 | 130.8 | 133.8 | 127.1 | 121.7 | 117.4 | 115.0 | 121.1 |
| 55° | 5444.6 | 2974.8 | 120.5 | 113.8 | 118.0 | 119.2 | 113.8 | 104.0 | 96.7 | 93.1 | 97.9 |
| 57.5° | 5346.7 | 2673.6 | 104.6 | 94.3 | 104.0 | 104.0 | 96.7 | 86.4 | 77.9 | 71.8 | 76.7 |
| 60° | 5098.5 | 2340.9 | 93.1 | 78.5 | 88.8 | 89.4 | 80.9 | 70.0 | 63.3 | 57.2 | 60.2 |
| 62.5° | 4636.1 | 1978.3 | 81.5 | 68.1 | 76.7 | 77.3 | 66.9 | 56.6 | 51.7 | 45.0 | 47.5 |
| 65° | 3711.5 | 1512.9 | 69.4 | 60.2 | 66.3 | 64.5 | 55.4 | 48.1 | 42.0 | 35.9 | 37.1 |
| 67.5° | 2409.0 | 933.8 | 60.2 | 54.8 | 56.0 | 54.1 | 46.8 | 42.0 | 35.3 | 30.4 | 31.0 |
| 70° | 1078.6 | 402.1 | 52.9 | 49.3 | 48.7 | 45.6 | 39.5 | 38.9 | 34.7 | 30.4 | 30.4 |
| 72.5° | 332.8 | 151.5 | 45.6 | 44.4 | 42.0 | 38.3 | 34.7 | 37.1 | 34.1 | 29.2 | 28.6 |
| 75° | 131.4 | 69.4 | 37.7 | 37.7 | 36.5 | 31.6 | 31.0 | 33.5 | 31.6 | 26.8 | 25.6 |
| 77.5° | 68.7 | 43.8 | 31.0 | 32.2 | 31.6 | 24.3 | 28.0 | 30.4 | 29.2 | 22.5 | 18.9 |
| 80° | 40.8 | 26.8 | 23.1 | 26.2 | 25.6 | 17.0 | 21.3 | 19.5 | 14.0 | 6.7 | 1.8 |
| 82.5° | 22.5 | 12.2 | 10.3 | 15.2 | 15.2 | 6.1 | 11.0 | 9.7 | 5.5 | 0.0 | 0.0 |
| 85° | 11.0 | 8.5 | 7.9 | 8.5 | 6.1 | 1.8 | 5.5 | 5.5 | 3.0 | 0.0 | 0.0 |
| 87.5° | 5.5 | 4.9 | 3.7 | 3.0 | 2.4 | 0.0 | 1.8 | 2.4 | 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)