

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: P565254

Luminaire Tested: **PMM-SA1B-722-U-T1**

Issue Date: 8/19/2021

Test Information

Test Method: LM-79-08
Report Number: P565254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-334-1)
Test Lab: INNOVATIONS CENTER
Issue Date: 8/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA1B-722-U-T1
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS.
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3366 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B2 - U0 - G2

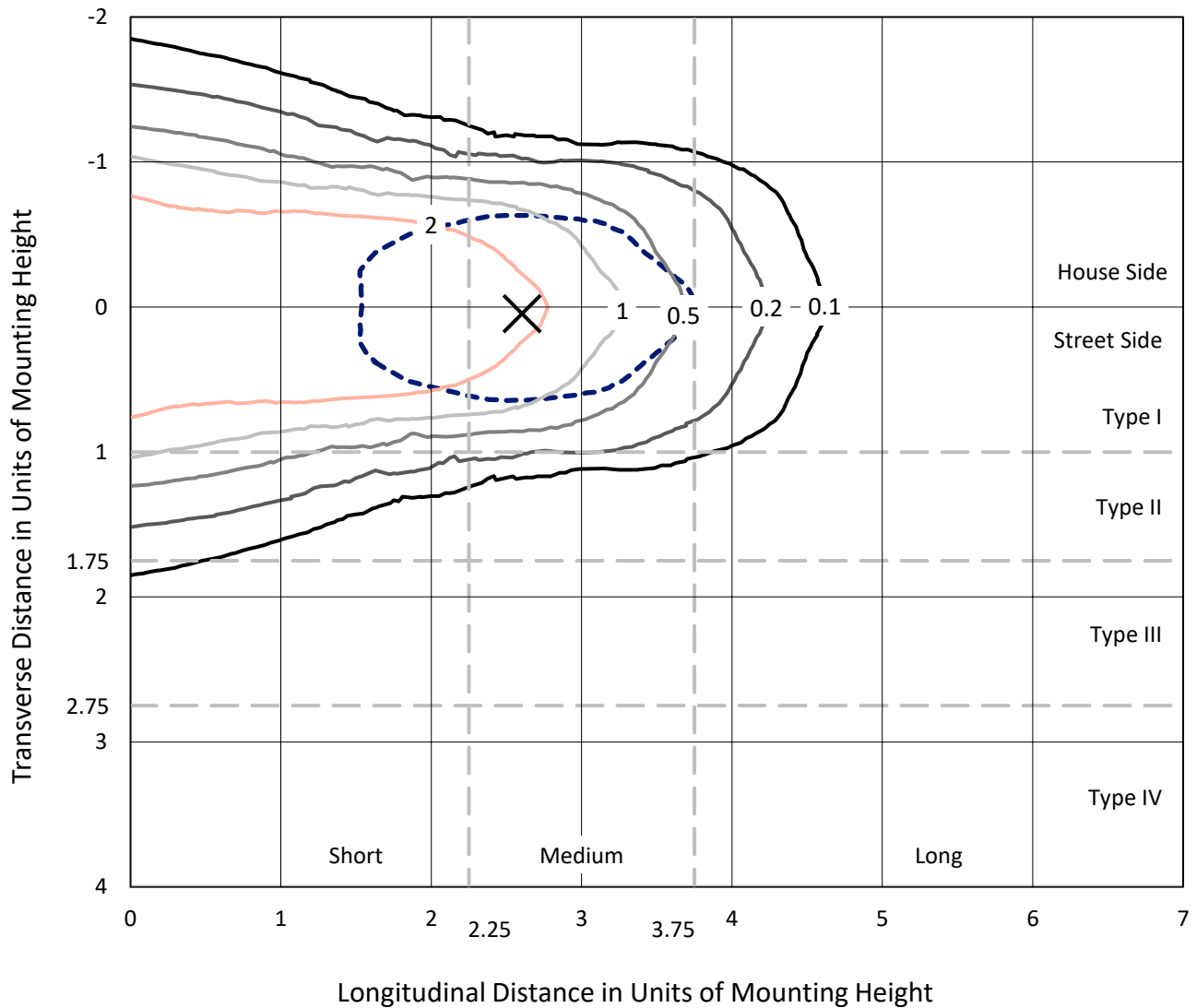
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

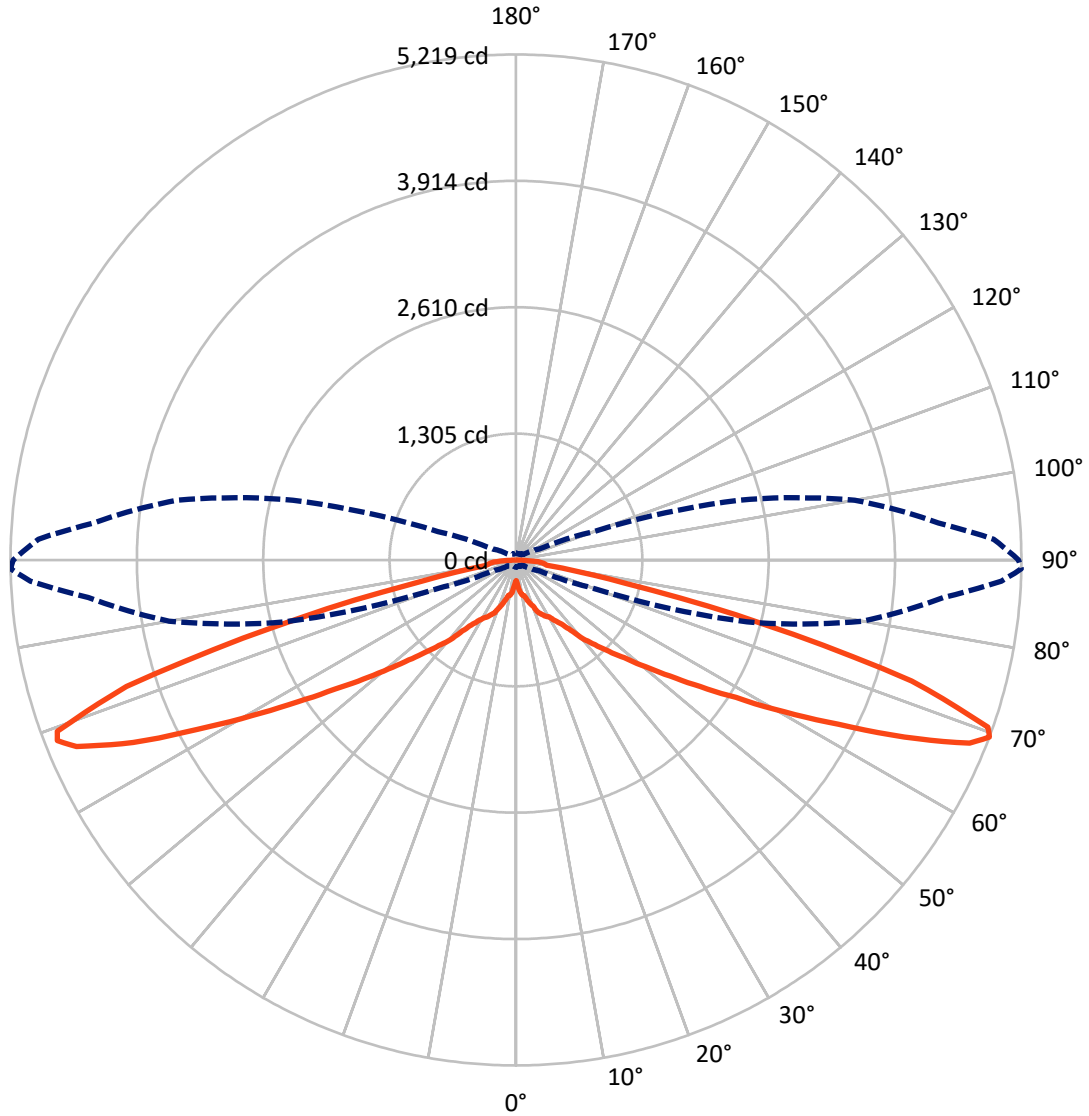
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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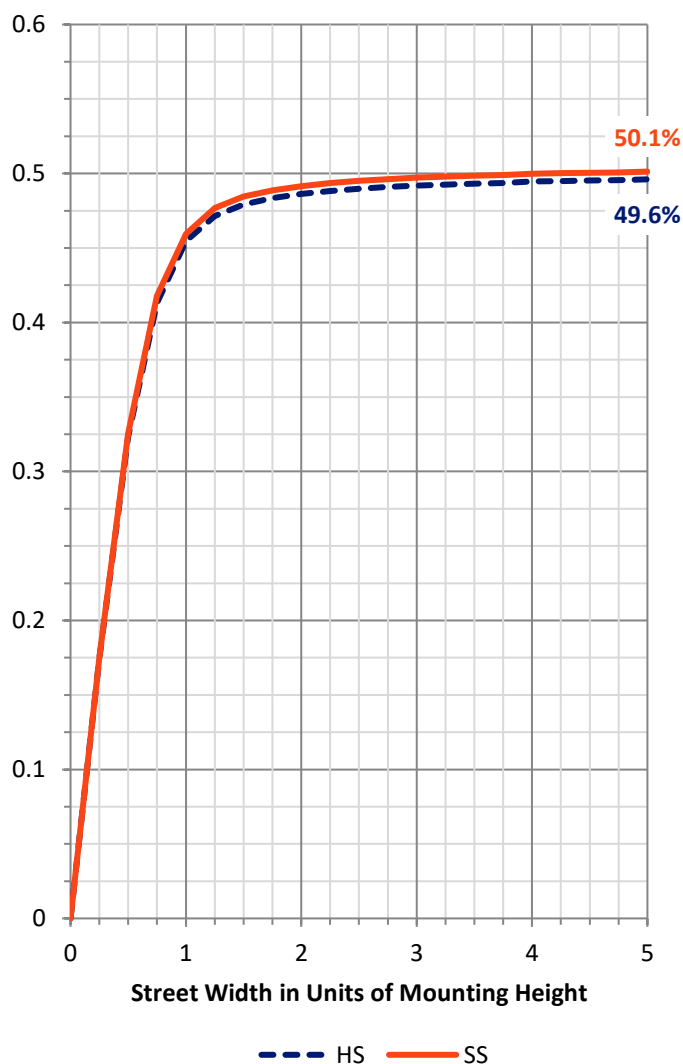
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1683.0 | 0.0 | 1683.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1683.0 | 0.0 | 1683.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3366.0 | 0.0 | 3366.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 26.8 | 0.8 |
| 10°-20° | 123.4 | 3.7 |
| 20°-30° | 246.2 | 7.3 |
| 30°-40° | 372.4 | 11.1 |
| 40°-50° | 540.6 | 16.1 |
| 50°-60° | 710.3 | 21.1 |
| 60°-70° | 866.4 | 25.7 |
| 70°-80° | 438.0 | 13.0 |
| 80°-90° | 41.8 | 1.2 |
| 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° | 3366.0 | 100.0 |
| 0°-180° | 3366.0 | 100.0 |

Coefficient of Utilization



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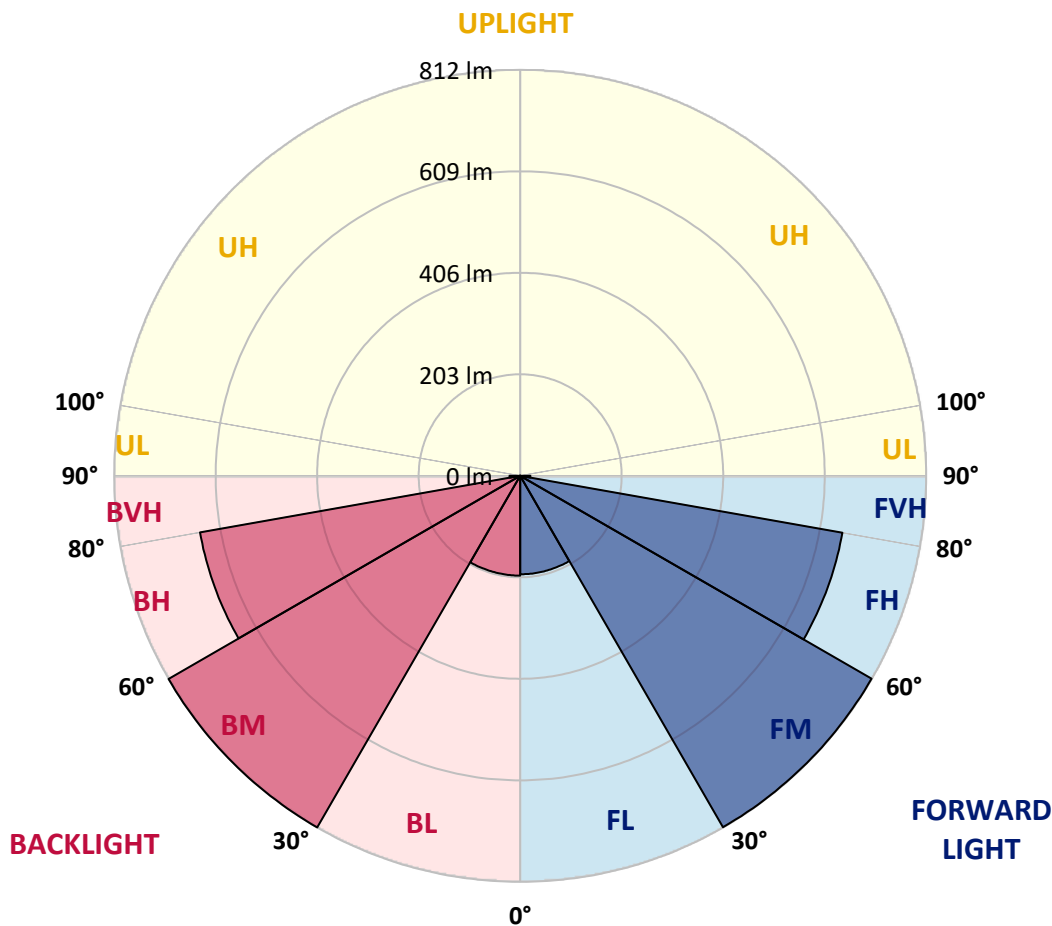
CATALOG NUMBER: PMM-SA1B-722-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 196.8 | 5.8 | | | |
| FM (30°-60°) | 811.4 | 24.1 | | | |
| FH (60°-80°) | 654.3 | 19.4 | | | G0/660 |
| FVH (80°-90°) | 20.5 | 0.6 | | | G1/100 |
| BL (0°-30°) | 199.6 | 5.9 | B1/500 | | |
| BM (30°-60°) | 811.9 | 24.1 | B1/1000 | | |
| BH (60°-80°) | 650.2 | 19.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 21.3 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type I Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 80° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0° | 213.2 | 213.2 | 213.2 | 213.2 | 213.2 | 213.2 | 213.2 | 213.2 | 213.2 | 213.2 | 213.2 |
| 2.5° | 250.2 | 221.4 | 218.8 | 211.9 | 217.0 | 218.8 | 214.5 | 208.2 | 215.1 | 218.8 | 211.9 |
| 5° | 315.4 | 272.8 | 258.4 | 246.4 | 222.6 | 212.6 | 222.6 | 248.3 | 251.5 | 267.1 | 262.7 |
| 7.5° | 347.4 | 340.5 | 322.3 | 282.8 | 244.6 | 223.2 | 250.2 | 287.2 | 306.0 | 321.1 | 336.7 |
| 10° | 371.2 | 367.5 | 335.5 | 307.3 | 291.6 | 292.8 | 293.5 | 305.4 | 321.7 | 346.8 | 355.5 |
| 12.5° | 376.9 | 375.6 | 380.6 | 374.4 | 375.6 | 382.5 | 375.6 | 372.5 | 381.9 | 390.0 | 381.3 |
| 15° | 413.2 | 412.6 | 414.5 | 415.7 | 440.8 | 451.5 | 440.8 | 431.4 | 424.5 | 417.6 | 432.0 |
| 17.5° | 438.3 | 435.2 | 435.8 | 447.7 | 475.9 | 505.4 | 499.8 | 487.2 | 471.6 | 481.0 | 492.9 |
| 20° | 452.1 | 446.5 | 450.2 | 455.2 | 502.9 | 535.5 | 539.3 | 522.3 | 512.9 | 524.9 | 534.9 |
| 22.5° | 465.3 | 456.5 | 443.3 | 448.4 | 492.2 | 539.3 | 557.5 | 553.1 | 560.0 | 563.7 | 561.9 |
| 25° | 449.6 | 455.2 | 440.8 | 455.2 | 499.8 | 543.0 | 579.4 | 605.1 | 605.7 | 603.9 | 617.7 |
| 27.5° | 440.2 | 435.8 | 411.4 | 448.4 | 485.3 | 512.3 | 605.1 | 648.4 | 661.6 | 621.4 | 648.4 |
| 30° | 423.9 | 430.8 | 397.6 | 428.3 | 475.3 | 520.5 | 634.6 | 696.7 | 677.2 | 672.2 | 678.5 |
| 32.5° | 413.9 | 409.5 | 393.8 | 410.7 | 446.5 | 544.9 | 653.4 | 724.9 | 749.3 | 737.4 | 736.2 |
| 35° | 397.6 | 400.7 | 376.2 | 394.4 | 444.6 | 524.2 | 665.9 | 795.7 | 833.4 | 824.0 | 816.4 |
| 37.5° | 400.1 | 389.4 | 371.8 | 385.0 | 432.7 | 535.5 | 697.3 | 864.1 | 923.7 | 928.7 | 894.2 |
| 40° | 381.3 | 375.0 | 348.6 | 370.6 | 410.1 | 528.6 | 704.8 | 941.9 | 1042.8 | 1065.4 | 1015.8 |
| 42.5° | 354.3 | 346.1 | 331.1 | 355.5 | 396.9 | 494.8 | 715.5 | 1035.3 | 1163.8 | 1210.9 | 1165.7 |
| 45° | 315.4 | 304.8 | 297.2 | 329.8 | 368.1 | 486.0 | 704.2 | 1113.0 | 1279.8 | 1344.4 | 1343.2 |
| 47.5° | 268.4 | 261.5 | 257.7 | 292.2 | 344.3 | 464.0 | 681.0 | 1162.0 | 1360.7 | 1526.3 | 1501.2 |
| 50° | 215.1 | 210.1 | 209.4 | 245.8 | 304.1 | 418.9 | 654.7 | 1186.4 | 1483.6 | 1693.1 | 1715.0 |
| 52.5° | 172.4 | 168.7 | 168.1 | 197.5 | 254.6 | 358.1 | 599.5 | 1205.2 | 1600.9 | 1882.5 | 1995.3 |
| 55° | 134.8 | 131.1 | 131.7 | 156.1 | 202.5 | 292.8 | 515.4 | 1183.9 | 1703.7 | 2076.2 | 2290.0 |
| 57.5° | 110.4 | 106.6 | 107.2 | 121.0 | 154.9 | 223.9 | 410.7 | 1137.5 | 1750.1 | 2315.8 | 2633.7 |
| 60° | 97.2 | 93.4 | 91.6 | 97.8 | 119.1 | 168.7 | 305.4 | 956.9 | 1757.7 | 2514.5 | 3006.8 |
| 62.5° | 90.3 | 86.5 | 84.7 | 86.5 | 98.4 | 129.2 | 220.1 | 758.1 | 1714.4 | 2684.5 | 3348.5 |
| 65° | 84.0 | 80.9 | 78.4 | 80.3 | 86.5 | 102.8 | 160.5 | 519.2 | 1488.0 | 2762.2 | 3596.8 |
| 67.5° | 77.1 | 74.6 | 72.1 | 74.6 | 79.0 | 86.5 | 124.8 | 328.6 | 1115.5 | 2661.3 | 3700.3 |
| 69° | 73.4 | 69.6 | 68.4 | 70.2 | 74.6 | 79.6 | 107.9 | 262.1 | 848.4 | 2469.4 | 3637.6 |
| 70° | 69.6 | 67.1 | 65.2 | 68.4 | 72.1 | 75.9 | 97.2 | 222.6 | 665.3 | 2222.9 | 3482.1 |
| 72.5° | 61.5 | 59.6 | 58.3 | 61.5 | 64.6 | 67.1 | 79.6 | 158.6 | 385.6 | 1513.7 | 2761.6 |
| 75° | 53.9 | 52.0 | 51.4 | 53.9 | 56.4 | 57.7 | 67.1 | 109.1 | 227.6 | 792.0 | 1656.7 |
| 77.5° | 45.1 | 42.6 | 43.3 | 46.4 | 48.3 | 48.9 | 56.4 | 78.4 | 134.2 | 358.7 | 767.5 |
| 80° | 33.2 | 33.2 | 35.7 | 38.3 | 38.3 | 38.3 | 45.1 | 57.1 | 81.5 | 164.9 | 318.5 |
| 82.5° | 23.2 | 23.8 | 24.5 | 28.2 | 28.8 | 26.3 | 34.5 | 41.4 | 50.8 | 72.1 | 110.4 |
| 85° | 13.2 | 13.8 | 14.4 | 16.9 | 17.6 | 15.7 | 22.6 | 26.3 | 29.5 | 35.7 | 57.7 |
| 87.5° | 5.0 | 5.6 | 7.5 | 8.8 | 9.4 | 6.9 | 10.7 | 12.5 | 12.5 | 15.0 | 25.7 |
| 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):

| | 85° | 87.5° | 89° | 90° | 92.5° | 95° | 100° | 105° | 110° | 115° | 125° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 213.2 | 213.2 | 213.2 | 213.2 | 213.2 | 213.2 | 213.2 | 213.2 | 213.2 | 213.2 | 213.2 |
| 2.5° | 226.4 | 230.8 | 238.9 | 240.8 | 233.9 | 226.4 | 209.4 | 220.1 | 224.5 | 216.3 | 218.8 |
| 5° | 280.3 | 289.7 | 299.7 | 287.8 | 280.3 | 275.3 | 267.1 | 267.8 | 263.4 | 248.9 | 225.1 |
| 7.5° | 341.1 | 330.5 | 338.0 | 346.1 | 334.2 | 334.9 | 342.4 | 326.7 | 314.8 | 290.3 | 245.8 |
| 10° | 369.3 | 369.3 | 371.2 | 371.2 | 366.2 | 366.2 | 365.6 | 340.5 | 326.1 | 315.4 | 302.9 |
| 12.5° | 371.2 | 370.6 | 378.1 | 372.5 | 373.7 | 375.0 | 378.1 | 389.4 | 385.6 | 371.8 | 383.1 |
| 15° | 423.3 | 420.8 | 423.3 | 422.6 | 424.5 | 430.2 | 427.7 | 425.2 | 425.8 | 435.8 | 452.7 |
| 17.5° | 472.2 | 473.4 | 470.9 | 475.3 | 475.3 | 479.1 | 487.9 | 479.1 | 471.6 | 490.4 | 503.5 |
| 20° | 528.6 | 524.2 | 514.2 | 521.7 | 523.6 | 524.2 | 538.6 | 528.0 | 517.3 | 524.2 | 539.9 |
| 22.5° | 585.7 | 585.1 | 586.3 | 586.9 | 589.4 | 580.0 | 560.6 | 557.5 | 564.4 | 555.0 | 556.8 |
| 25° | 620.8 | 621.4 | 624.6 | 625.2 | 614.5 | 624.6 | 631.5 | 610.8 | 610.8 | 608.9 | 596.3 |
| 27.5° | 663.4 | 654.0 | 657.8 | 662.8 | 658.4 | 660.9 | 652.8 | 622.7 | 654.7 | 659.0 | 608.9 |
| 30° | 692.3 | 687.9 | 683.5 | 688.5 | 692.9 | 704.2 | 681.0 | 677.9 | 680.4 | 703.6 | 637.7 |
| 32.5° | 753.1 | 759.4 | 751.2 | 743.1 | 751.2 | 748.7 | 738.7 | 734.3 | 765.6 | 734.9 | 657.8 |
| 35° | 809.5 | 812.1 | 812.7 | 811.4 | 816.4 | 807.7 | 807.7 | 824.0 | 833.4 | 800.1 | 664.1 |
| 37.5° | 945.6 | 936.8 | 918.7 | 909.9 | 925.5 | 938.7 | 899.8 | 919.3 | 915.5 | 859.1 | 711.1 |
| 40° | 1043.4 | 1063.5 | 1069.1 | 1066.6 | 1069.1 | 1031.5 | 1039.7 | 1054.1 | 1037.2 | 943.7 | 694.8 |
| 42.5° | 1186.4 | 1198.9 | 1194.6 | 1188.9 | 1191.4 | 1184.5 | 1160.1 | 1213.4 | 1152.5 | 1038.4 | 719.9 |
| 45° | 1316.8 | 1345.1 | 1346.9 | 1327.5 | 1343.2 | 1318.7 | 1328.8 | 1347.6 | 1286.1 | 1109.3 | 713.0 |
| 47.5° | 1472.4 | 1530.7 | 1508.7 | 1508.7 | 1524.4 | 1471.7 | 1495.6 | 1520.6 | 1357.6 | 1156.9 | 675.3 |
| 50° | 1702.5 | 1733.8 | 1732.6 | 1726.9 | 1733.8 | 1705.6 | 1701.9 | 1698.7 | 1467.3 | 1202.1 | 652.1 |
| 52.5° | 1962.7 | 2005.4 | 1989.1 | 1995.3 | 2004.7 | 1951.4 | 1993.4 | 1878.7 | 1604.7 | 1219.0 | 599.5 |
| 55° | 2295.1 | 2324.5 | 2308.2 | 2276.2 | 2318.9 | 2285.0 | 2298.8 | 2075.0 | 1700.0 | 1170.7 | 511.7 |
| 57.5° | 2690.7 | 2705.8 | 2678.8 | 2675.7 | 2703.9 | 2667.5 | 2644.3 | 2295.7 | 1749.5 | 1134.4 | 408.8 |
| 60° | 3152.9 | 3199.9 | 3183.0 | 3156.0 | 3181.7 | 3149.8 | 2974.2 | 2483.2 | 1739.5 | 964.4 | 316.7 |
| 62.5° | 3707.2 | 3754.9 | 3736.1 | 3717.9 | 3734.2 | 3650.8 | 3283.9 | 2631.2 | 1694.3 | 764.4 | 231.4 |
| 65° | 4165.0 | 4380.1 | 4408.3 | 4408.9 | 4329.9 | 4136.8 | 3531.0 | 2688.9 | 1456.0 | 533.6 | 169.3 |
| 67.5° | 4466.0 | 4913.1 | 5052.3 | 5002.1 | 4820.9 | 4380.1 | 3630.7 | 2576.0 | 1124.3 | 337.4 | 126.7 |
| 69° | 4431.5 | 5017.8 | 5219.1 | 5190.9 | 4936.3 | 4376.3 | 3553.0 | 2386.0 | 859.1 | 268.4 | 107.2 |
| 70° | 4272.2 | 4931.9 | 5170.8 | 5183.3 | 4862.9 | 4208.2 | 3414.4 | 2167.8 | 694.8 | 228.9 | 98.4 |
| 72.5° | 3409.4 | 4064.0 | 4274.1 | 4356.2 | 4038.3 | 3369.9 | 2799.8 | 1529.4 | 402.6 | 159.9 | 79.6 |
| 75° | 2112.0 | 2464.4 | 2638.7 | 2686.3 | 2493.8 | 2098.8 | 1699.3 | 850.9 | 245.2 | 112.9 | 67.1 |
| 77.5° | 946.9 | 1049.1 | 1149.4 | 1149.4 | 1074.2 | 958.2 | 778.8 | 411.4 | 139.2 | 80.3 | 56.4 |
| 80° | 317.3 | 329.2 | 320.4 | 323.6 | 311.0 | 299.1 | 312.9 | 177.5 | 85.9 | 60.2 | 45.8 |
| 82.5° | 215.7 | 270.9 | 287.8 | 287.8 | 270.3 | 213.2 | 120.4 | 81.5 | 52.7 | 43.3 | 35.1 |
| 85° | 175.6 | 214.5 | 230.1 | 237.0 | 223.2 | 180.0 | 63.3 | 39.5 | 31.4 | 27.6 | 23.8 |
| 87.5° | 58.9 | 55.2 | 52.0 | 50.8 | 53.3 | 55.8 | 31.4 | 16.9 | 14.4 | 13.2 | 12.5 |
| 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):

| | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|
| 0° | 213.2 | 213.2 | 213.2 | 213.2 | 213.2 | 213.2 |
| 2.5° | 223.2 | 215.7 | 218.8 | 222.0 | 244.6 | 261.5 |
| 5° | 222.0 | 232.6 | 256.5 | 286.6 | 300.4 | 334.2 |
| 7.5° | 228.3 | 267.1 | 311.7 | 343.0 | 355.5 | 366.2 |
| 10° | 305.4 | 312.3 | 327.3 | 357.4 | 382.5 | 386.9 |
| 12.5° | 394.4 | 392.5 | 381.9 | 395.7 | 383.1 | 391.9 |
| 15° | 464.0 | 443.3 | 428.9 | 427.0 | 422.6 | 422.6 |
| 17.5° | 502.3 | 484.1 | 464.0 | 459.0 | 445.8 | 456.5 |
| 20° | 547.4 | 516.1 | 465.9 | 460.9 | 456.5 | 446.5 |
| 22.5° | 538.6 | 507.3 | 455.2 | 449.0 | 472.2 | 470.9 |
| 25° | 549.3 | 507.3 | 457.8 | 450.9 | 461.5 | 461.5 |
| 27.5° | 523.0 | 488.5 | 452.7 | 411.4 | 444.0 | 451.5 |
| 30° | 516.1 | 477.2 | 435.8 | 398.8 | 432.0 | 425.2 |
| 32.5° | 552.4 | 449.0 | 408.2 | 396.9 | 421.4 | 416.4 |
| 35° | 524.2 | 444.0 | 401.3 | 380.6 | 409.5 | 404.5 |
| 37.5° | 536.1 | 437.7 | 389.4 | 371.8 | 395.1 | 402.6 |
| 40° | 533.6 | 408.2 | 375.6 | 353.0 | 376.2 | 380.0 |
| 42.5° | 491.6 | 385.6 | 352.4 | 329.8 | 341.8 | 354.3 |
| 45° | 479.1 | 371.8 | 329.8 | 298.5 | 299.1 | 313.5 |
| 47.5° | 455.9 | 340.5 | 288.5 | 259.6 | 259.6 | 271.5 |
| 50° | 417.0 | 298.5 | 241.4 | 215.1 | 214.5 | 223.9 |
| 52.5° | 359.3 | 257.7 | 203.8 | 175.0 | 173.1 | 182.5 |
| 55° | 294.1 | 207.6 | 160.5 | 141.7 | 138.0 | 141.7 |
| 57.5° | 228.9 | 161.8 | 126.7 | 111.6 | 111.0 | 114.1 |
| 60° | 177.5 | 126.7 | 101.0 | 92.2 | 93.4 | 98.4 |
| 62.5° | 134.2 | 101.0 | 85.9 | 82.8 | 84.7 | 89.7 |
| 65° | 106.6 | 87.2 | 78.4 | 76.5 | 78.4 | 83.4 |
| 67.5° | 86.5 | 79.0 | 72.7 | 70.2 | 71.5 | 76.5 |
| 69° | 79.6 | 74.6 | 69.6 | 66.5 | 67.7 | 71.5 |
| 70° | 75.9 | 72.1 | 67.1 | 64.0 | 65.2 | 69.0 |
| 72.5° | 66.5 | 64.6 | 60.8 | 57.7 | 58.3 | 61.5 |
| 75° | 58.3 | 57.1 | 54.6 | 50.8 | 50.8 | 54.6 |
| 77.5° | 48.9 | 49.5 | 47.0 | 43.3 | 42.6 | 44.5 |
| 80° | 38.9 | 40.1 | 38.9 | 35.1 | 33.9 | 33.9 |
| 82.5° | 28.2 | 30.7 | 29.5 | 25.7 | 25.1 | 25.1 |
| 85° | 17.6 | 19.4 | 18.8 | 16.3 | 16.3 | 14.4 |
| 87.5° | 8.2 | 10.7 | 10.0 | 8.8 | 8.2 | 5.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)