

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: P597920

Luminaire Tested: **PMM-SA1B-827-U-T2**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-8)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA1B-827-U-T2
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3713 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

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

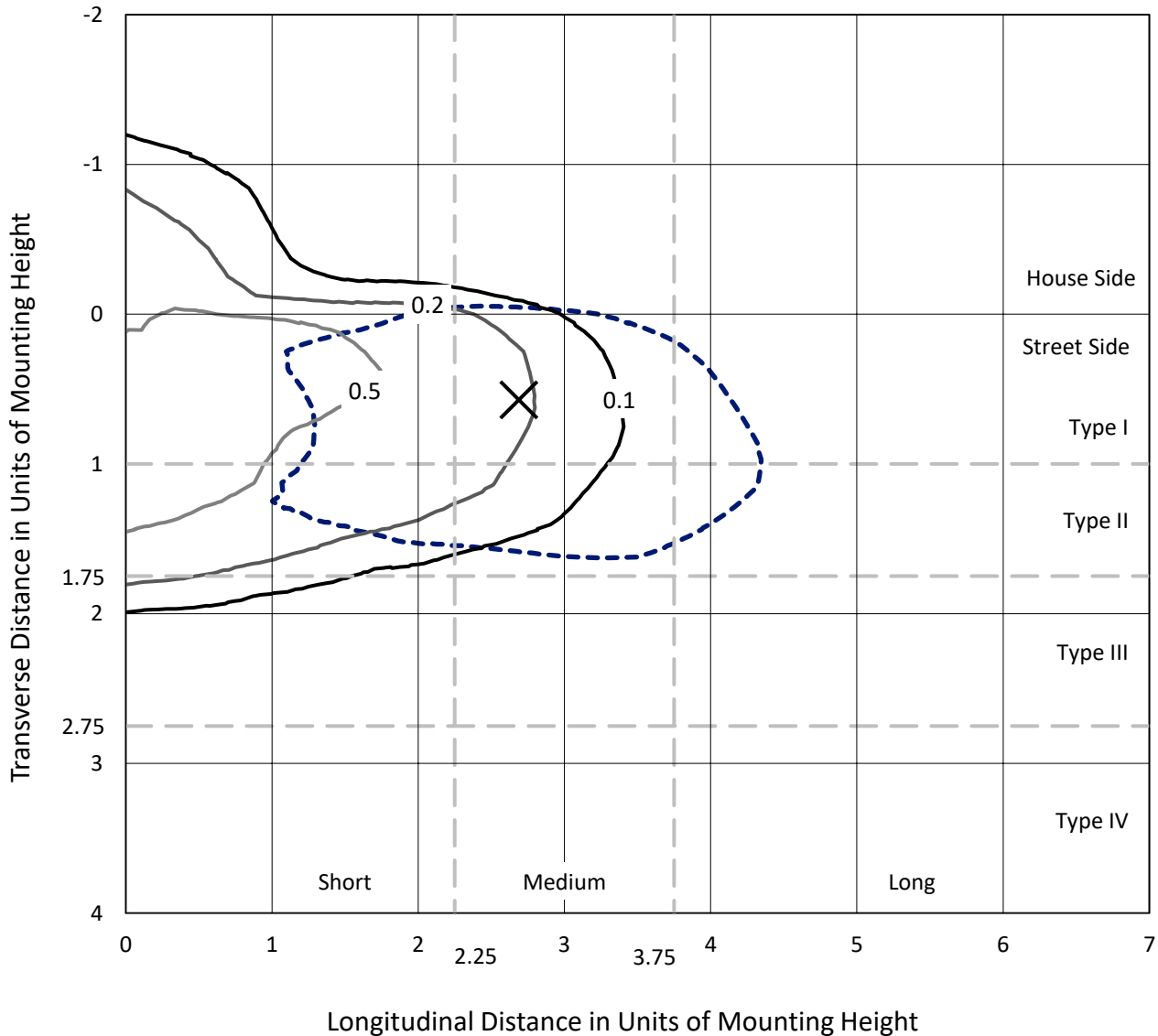


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Iso-Footcandle Lines of Horizontal Illumination

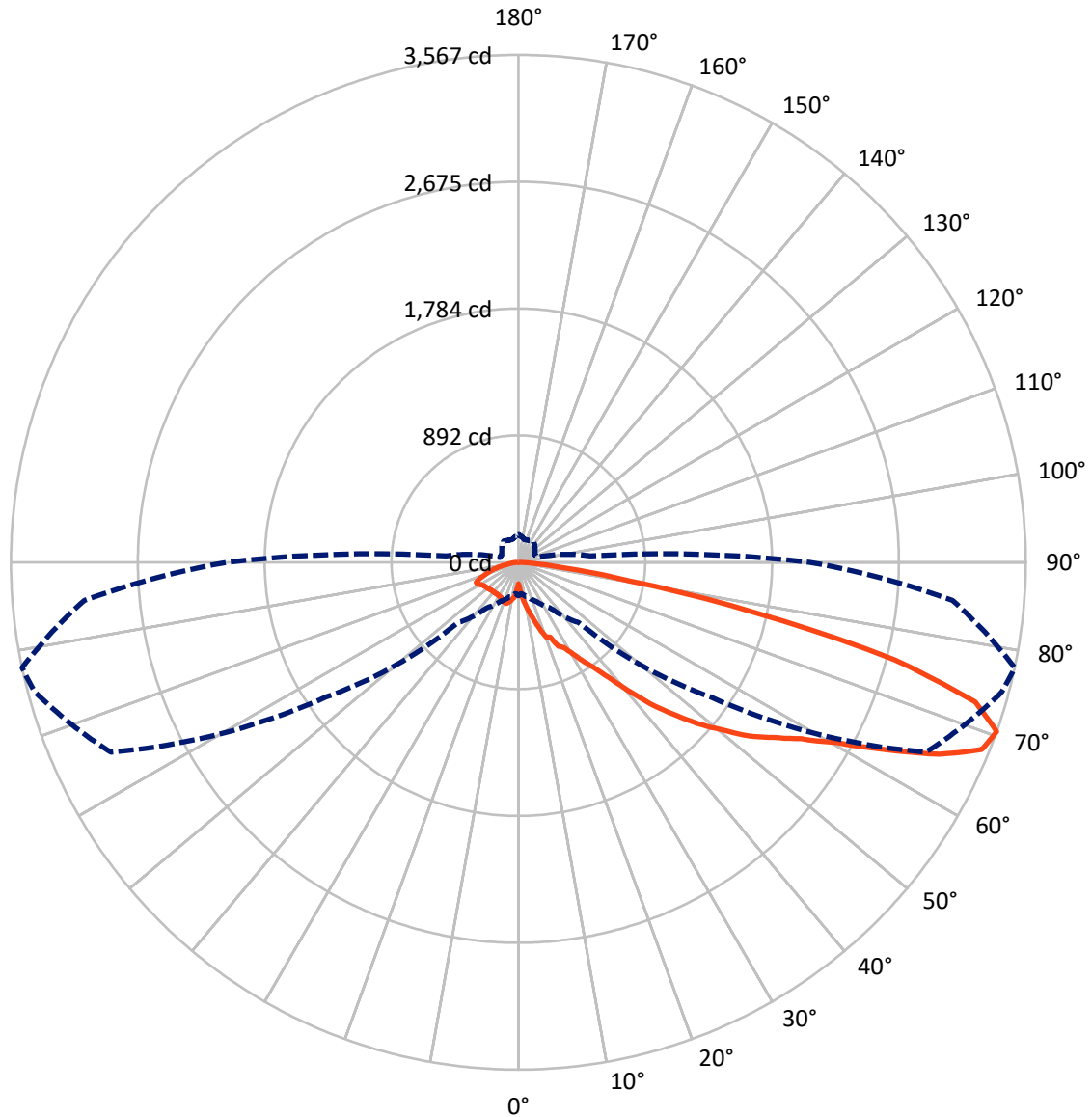
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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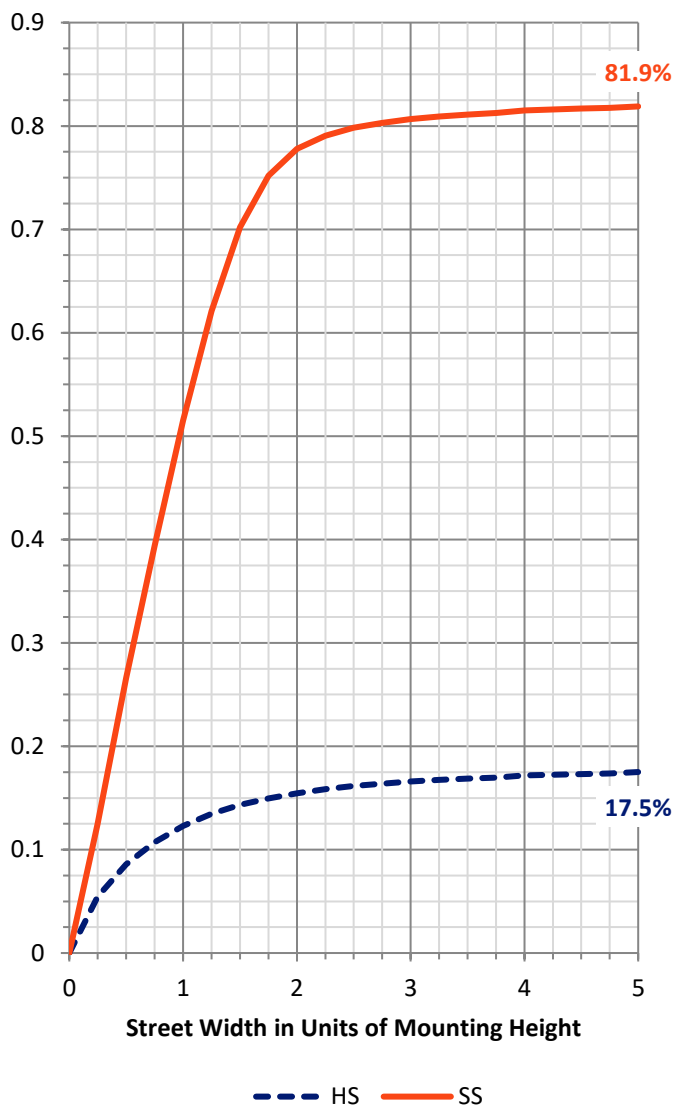
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 662.7 | 0.0 | 662.7 |
| | % Fixture | 17.8 | 0.0 | 17.8 |
| Street Side | Lumens | 3050.3 | 0.0 | 3050.3 |
| | % Fixture | 82.2 | 0.0 | 82.2 |
| Total | Lumens | 3713.0 | 0.0 | 3713.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 23.4 | 0.6 |
| 10°-20° | 103.1 | 2.8 |
| 20°-30° | 198.4 | 5.3 |
| 30°-40° | 334.2 | 9.0 |
| 40°-50° | 578.2 | 15.6 |
| 50°-60° | 873.0 | 23.5 |
| 60°-70° | 967.0 | 26.0 |
| 70°-80° | 557.5 | 15.0 |
| 80°-90° | 78.2 | 2.1 |
| 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° | 3713.0 | 100.0 |
| 0°-180° | 3713.0 | 100.0 |

Coefficient of Utilization



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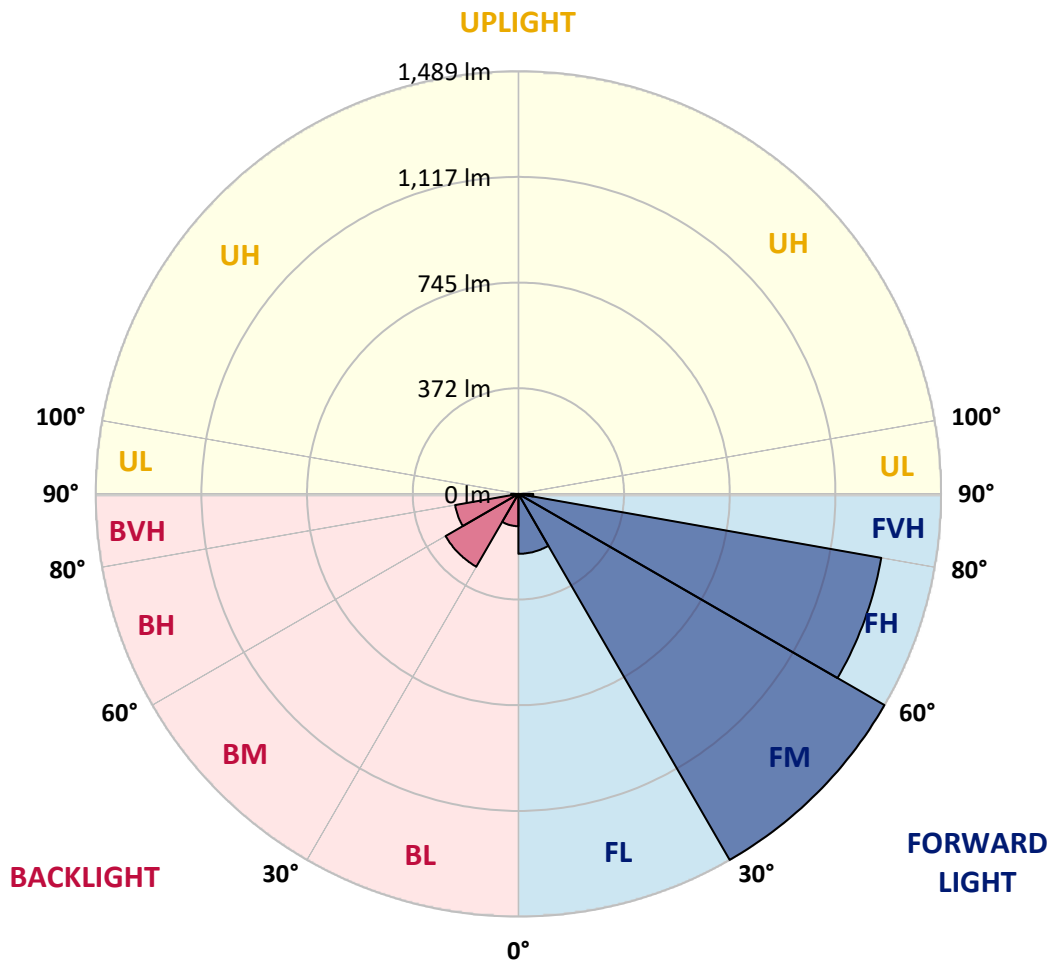
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 211.1 | 5.7 | | | |
| FM (30°-60°) | 1489.0 | 40.1 | | | |
| FH (60°-80°) | 1298.0 | 35.0 | | | G1/1800 |
| FVH (80°-90°) | 52.2 | 1.4 | | | G1/100 |
| BL (0°-30°) | 113.8 | 3.1 | B1/500 | | |
| BM (30°-60°) | 296.4 | 8.0 | B1/1000 | | |
| BH (60°-80°) | 226.5 | 6.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 26.0 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 151.4 | 151.4 | 151.4 | 151.4 | 151.4 | 151.4 | 151.4 | 151.4 | 151.4 | 151.4 | 151.4 |
| 2.5° | 194.9 | 187.9 | 177.4 | 181.7 | 187.0 | 187.6 | 185.9 | 176.3 | 173.1 | 180.3 | 182.5 |
| 5° | 273.0 | 261.3 | 254.2 | 251.8 | 243.9 | 227.5 | 239.3 | 233.3 | 234.5 | 230.9 | 237.9 |
| 7.5° | 338.8 | 330.9 | 320.4 | 317.5 | 299.4 | 286.5 | 294.6 | 291.9 | 279.2 | 274.3 | 282.2 |
| 10° | 372.3 | 363.6 | 364.1 | 357.7 | 352.9 | 354.2 | 350.1 | 338.5 | 329.1 | 322.4 | 303.4 |
| 12.5° | 392.4 | 394.5 | 406.2 | 402.9 | 421.0 | 435.9 | 424.6 | 407.4 | 377.5 | 371.5 | 352.6 |
| 15° | 440.2 | 448.3 | 437.4 | 442.4 | 450.1 | 478.6 | 474.0 | 470.2 | 438.7 | 426.9 | 392.1 |
| 17.5° | 489.4 | 491.0 | 474.6 | 471.9 | 490.5 | 504.9 | 523.0 | 502.1 | 506.0 | 497.8 | 441.4 |
| 20° | 500.0 | 510.6 | 487.1 | 470.9 | 509.1 | 537.6 | 560.0 | 537.9 | 558.3 | 560.5 | 482.2 |
| 22.5° | 538.5 | 525.7 | 494.7 | 478.8 | 512.2 | 547.2 | 583.7 | 596.1 | 589.6 | 571.3 | 521.5 |
| 25° | 565.3 | 558.5 | 526.9 | 509.2 | 521.9 | 554.1 | 618.2 | 650.6 | 656.3 | 653.8 | 558.9 |
| 27.5° | 615.0 | 618.4 | 553.4 | 558.3 | 540.7 | 543.6 | 639.0 | 722.9 | 687.1 | 677.2 | 605.4 |
| 30° | 693.4 | 678.3 | 605.4 | 609.4 | 580.1 | 575.2 | 682.8 | 785.2 | 753.2 | 741.3 | 643.6 |
| 32.5° | 775.3 | 776.7 | 688.2 | 653.8 | 638.2 | 633.2 | 674.1 | 817.9 | 836.8 | 821.3 | 701.3 |
| 35° | 890.8 | 882.7 | 778.0 | 732.8 | 676.3 | 667.6 | 735.9 | 912.6 | 947.3 | 904.0 | 769.9 |
| 37.5° | 1066.6 | 1042.3 | 920.4 | 815.9 | 774.1 | 764.2 | 824.1 | 997.6 | 1075.6 | 1021.7 | 882.0 |
| 40° | 1207.8 | 1158.4 | 1047.6 | 920.4 | 849.6 | 861.8 | 886.8 | 1100.7 | 1208.7 | 1178.4 | 985.7 |
| 42.5° | 1320.3 | 1276.5 | 1137.7 | 1048.2 | 952.1 | 936.9 | 964.2 | 1228.4 | 1389.8 | 1360.1 | 1115.1 |
| 45° | 1428.2 | 1339.1 | 1238.9 | 1158.4 | 1066.0 | 1084.4 | 1080.4 | 1358.7 | 1611.9 | 1520.5 | 1229.5 |
| 47.5° | 1534.7 | 1451.0 | 1346.2 | 1238.0 | 1145.0 | 1259.6 | 1216.8 | 1455.6 | 1761.8 | 1694.0 | 1349.9 |
| 50° | 1671.5 | 1579.4 | 1460.1 | 1351.3 | 1295.6 | 1379.5 | 1307.5 | 1537.6 | 1929.6 | 1850.0 | 1463.5 |
| 52.5° | 1762.4 | 1672.8 | 1568.1 | 1490.4 | 1485.3 | 1453.0 | 1434.6 | 1641.5 | 2076.6 | 2028.3 | 1583.9 |
| 55° | 1751.7 | 1665.3 | 1618.0 | 1626.5 | 1689.6 | 1580.5 | 1565.5 | 1795.2 | 2230.0 | 2174.1 | 1713.9 |
| 57.5° | 1617.8 | 1523.6 | 1533.6 | 1584.1 | 1753.7 | 1804.5 | 1779.0 | 1959.4 | 2366.8 | 2341.4 | 1874.8 |
| 60° | 1260.3 | 1211.8 | 1293.7 | 1386.0 | 1668.0 | 1870.1 | 2049.7 | 2159.7 | 2535.2 | 2575.8 | 2127.4 |
| 62.5° | 818.7 | 754.0 | 883.4 | 1040.0 | 1412.1 | 1826.8 | 2325.4 | 2539.6 | 2811.1 | 2903.2 | 2511.2 |
| 65° | 424.1 | 413.7 | 504.3 | 648.2 | 983.0 | 1557.6 | 2422.6 | 2938.0 | 3146.3 | 3253.6 | 2877.9 |
| 67.5° | 308.3 | 289.1 | 331.1 | 415.8 | 600.1 | 1062.1 | 2238.4 | 3242.8 | 3415.5 | 3513.8 | 3091.1 |
| 70° | 234.8 | 220.6 | 252.6 | 305.1 | 391.9 | 600.0 | 1652.3 | 3159.6 | 3519.4 | 3567.0 | 3062.8 |
| 72.5° | 175.8 | 163.6 | 191.6 | 240.5 | 302.0 | 337.7 | 976.7 | 2597.9 | 3342.1 | 3358.4 | 2748.8 |
| 75° | 140.4 | 130.9 | 143.0 | 189.9 | 246.1 | 229.9 | 518.8 | 1882.2 | 2715.4 | 2729.3 | 2099.7 |
| 77.5° | 115.2 | 107.1 | 112.1 | 142.4 | 191.5 | 172.9 | 257.4 | 1197.3 | 1724.0 | 1702.6 | 1181.3 |
| 80° | 94.0 | 87.0 | 89.3 | 102.9 | 145.8 | 129.1 | 144.6 | 624.6 | 822.4 | 789.3 | 491.3 |
| 82.5° | 72.3 | 66.4 | 71.0 | 75.7 | 105.6 | 92.7 | 84.4 | 284.2 | 336.8 | 313.8 | 180.2 |
| 85° | 48.4 | 43.0 | 61.8 | 56.8 | 69.0 | 57.0 | 46.1 | 113.1 | 125.5 | 117.0 | 63.3 |
| 87.5° | 13.3 | 12.5 | 20.7 | 28.3 | 28.3 | 21.5 | 16.9 | 27.4 | 35.0 | 30.6 | 14.9 |
| 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° | 151.4 | 151.4 | 151.4 | 151.4 | 151.4 | 151.4 | 151.4 | 151.4 | 151.4 | 151.4 | 151.4 |
| 2.5° | 183.4 | 180.0 | 171.0 | 170.3 | 172.4 | 172.7 | 171.3 | 168.1 | 166.4 | 175.7 | 174.3 |
| 5° | 236.2 | 224.1 | 216.9 | 210.2 | 200.9 | 194.3 | 196.0 | 200.6 | 202.2 | 209.1 | 209.9 |
| 7.5° | 277.2 | 261.3 | 245.3 | 224.0 | 209.9 | 200.9 | 207.7 | 212.7 | 216.5 | 226.5 | 230.5 |
| 10° | 295.0 | 277.7 | 255.1 | 232.6 | 228.8 | 230.3 | 226.5 | 227.7 | 233.7 | 234.2 | 236.2 |
| 12.5° | 328.1 | 308.5 | 267.8 | 247.5 | 246.4 | 249.7 | 248.3 | 254.0 | 258.2 | 269.5 | 264.7 |
| 15° | 359.9 | 334.8 | 277.4 | 256.6 | 252.1 | 258.6 | 266.2 | 275.8 | 284.8 | 295.5 | 290.1 |
| 17.5° | 398.4 | 360.7 | 277.8 | 252.5 | 253.2 | 267.2 | 275.1 | 280.3 | 307.1 | 321.8 | 314.4 |
| 20° | 422.7 | 363.3 | 267.5 | 242.1 | 253.2 | 265.8 | 276.8 | 282.5 | 312.5 | 334.6 | 339.8 |
| 22.5° | 444.7 | 364.2 | 259.4 | 236.5 | 243.6 | 260.2 | 276.8 | 289.4 | 308.6 | 329.8 | 330.6 |
| 25° | 456.8 | 363.4 | 249.1 | 237.0 | 243.5 | 251.7 | 266.4 | 278.0 | 292.2 | 321.8 | 322.6 |
| 27.5° | 487.7 | 353.4 | 238.8 | 238.8 | 242.2 | 242.5 | 261.3 | 268.1 | 270.1 | 297.0 | 301.8 |
| 30° | 496.7 | 355.5 | 237.6 | 238.5 | 240.2 | 237.1 | 245.3 | 249.8 | 252.8 | 276.0 | 276.8 |
| 32.5° | 511.1 | 338.2 | 241.3 | 235.7 | 233.6 | 233.1 | 235.1 | 239.1 | 240.4 | 254.6 | 257.3 |
| 35° | 528.6 | 331.2 | 242.5 | 235.0 | 230.6 | 228.3 | 234.3 | 229.4 | 233.3 | 250.0 | 251.8 |
| 37.5° | 585.6 | 321.6 | 248.9 | 235.0 | 229.4 | 226.8 | 223.8 | 226.1 | 239.9 | 256.0 | 265.9 |
| 40° | 621.9 | 324.6 | 247.3 | 237.3 | 225.2 | 222.7 | 217.8 | 226.3 | 247.7 | 276.1 | 283.6 |
| 42.5° | 685.7 | 326.3 | 249.2 | 236.2 | 226.6 | 217.0 | 220.3 | 229.5 | 252.0 | 268.2 | 279.7 |
| 45° | 751.6 | 331.6 | 248.0 | 233.0 | 223.5 | 228.0 | 223.5 | 231.9 | 242.5 | 243.0 | 251.7 |
| 47.5° | 816.3 | 352.8 | 245.3 | 226.3 | 222.7 | 234.5 | 223.0 | 224.4 | 225.2 | 228.0 | 238.2 |
| 50° | 892.3 | 375.4 | 241.6 | 217.0 | 223.8 | 234.8 | 224.7 | 217.9 | 217.2 | 226.3 | 237.8 |
| 52.5° | 978.7 | 400.9 | 236.8 | 208.0 | 217.5 | 231.9 | 230.6 | 218.4 | 211.7 | 220.6 | 232.0 |
| 55° | 1080.4 | 430.0 | 231.3 | 199.1 | 210.5 | 232.2 | 233.9 | 215.2 | 211.9 | 221.5 | 233.7 |
| 57.5° | 1215.5 | 472.1 | 220.4 | 186.1 | 202.0 | 227.4 | 225.5 | 211.4 | 208.3 | 218.6 | 231.3 |
| 60° | 1446.2 | 553.1 | 204.9 | 173.2 | 192.9 | 215.6 | 218.7 | 204.8 | 201.7 | 213.0 | 226.3 |
| 62.5° | 1755.0 | 650.4 | 186.2 | 160.7 | 181.7 | 202.9 | 210.2 | 195.2 | 194.9 | 209.3 | 223.2 |
| 65° | 2042.4 | 705.7 | 166.9 | 149.2 | 170.3 | 191.2 | 200.6 | 186.2 | 186.8 | 204.9 | 218.9 |
| 67.5° | 2161.9 | 640.7 | 149.5 | 139.0 | 157.1 | 177.7 | 192.7 | 179.2 | 177.2 | 199.1 | 211.9 |
| 70° | 2049.7 | 508.9 | 134.5 | 128.2 | 142.2 | 163.1 | 181.7 | 170.0 | 165.3 | 185.1 | 195.2 |
| 72.5° | 1813.6 | 424.3 | 120.4 | 115.5 | 129.2 | 147.8 | 166.9 | 157.4 | 151.4 | 166.5 | 175.5 |
| 75° | 1417.7 | 348.1 | 104.3 | 102.9 | 114.4 | 133.9 | 151.4 | 144.9 | 137.1 | 146.7 | 155.7 |
| 77.5° | 807.2 | 220.3 | 87.6 | 88.5 | 96.7 | 117.3 | 132.8 | 127.7 | 119.8 | 123.8 | 134.2 |
| 80° | 323.0 | 111.1 | 70.4 | 71.0 | 78.0 | 96.4 | 110.1 | 108.2 | 100.0 | 103.2 | 110.4 |
| 82.5° | 120.7 | 61.0 | 52.0 | 52.3 | 59.3 | 76.3 | 94.0 | 93.0 | 85.3 | 83.0 | 87.0 |
| 85° | 48.0 | 30.2 | 31.9 | 33.3 | 39.9 | 54.9 | 75.4 | 66.9 | 57.7 | 50.6 | 53.1 |
| 87.5° | 11.5 | 9.6 | 11.1 | 11.8 | 13.0 | 17.2 | 27.6 | 22.1 | 22.8 | 18.3 | 13.6 |
| 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)