

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: McGRAW-EDISON

Report Number: P595455

Luminaire Tested: **ISW-PA1A-735-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISW-PA1A-735-U-T3-HSS
Description: IMPACT ELITE LED WEDGE LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2797 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

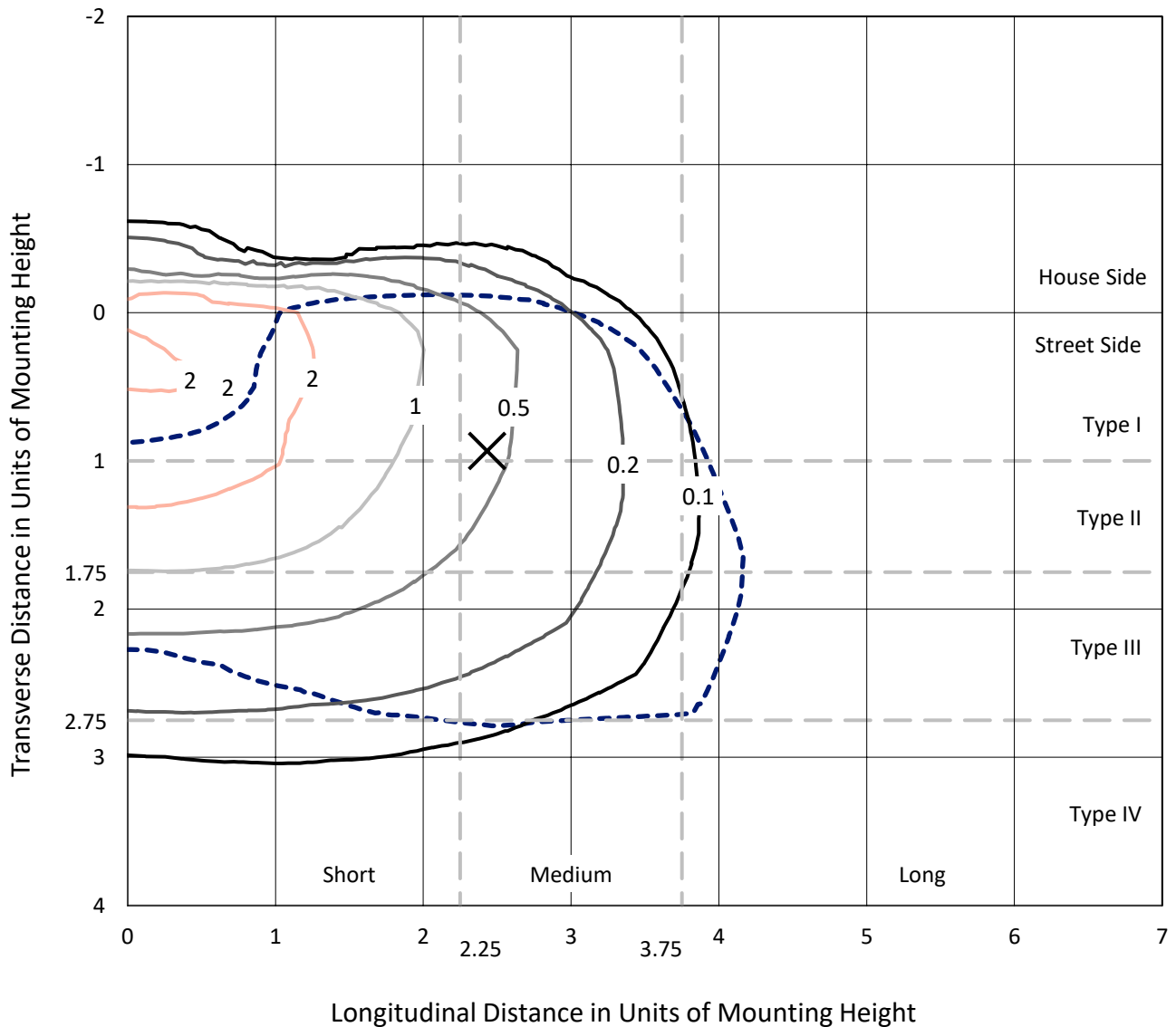
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

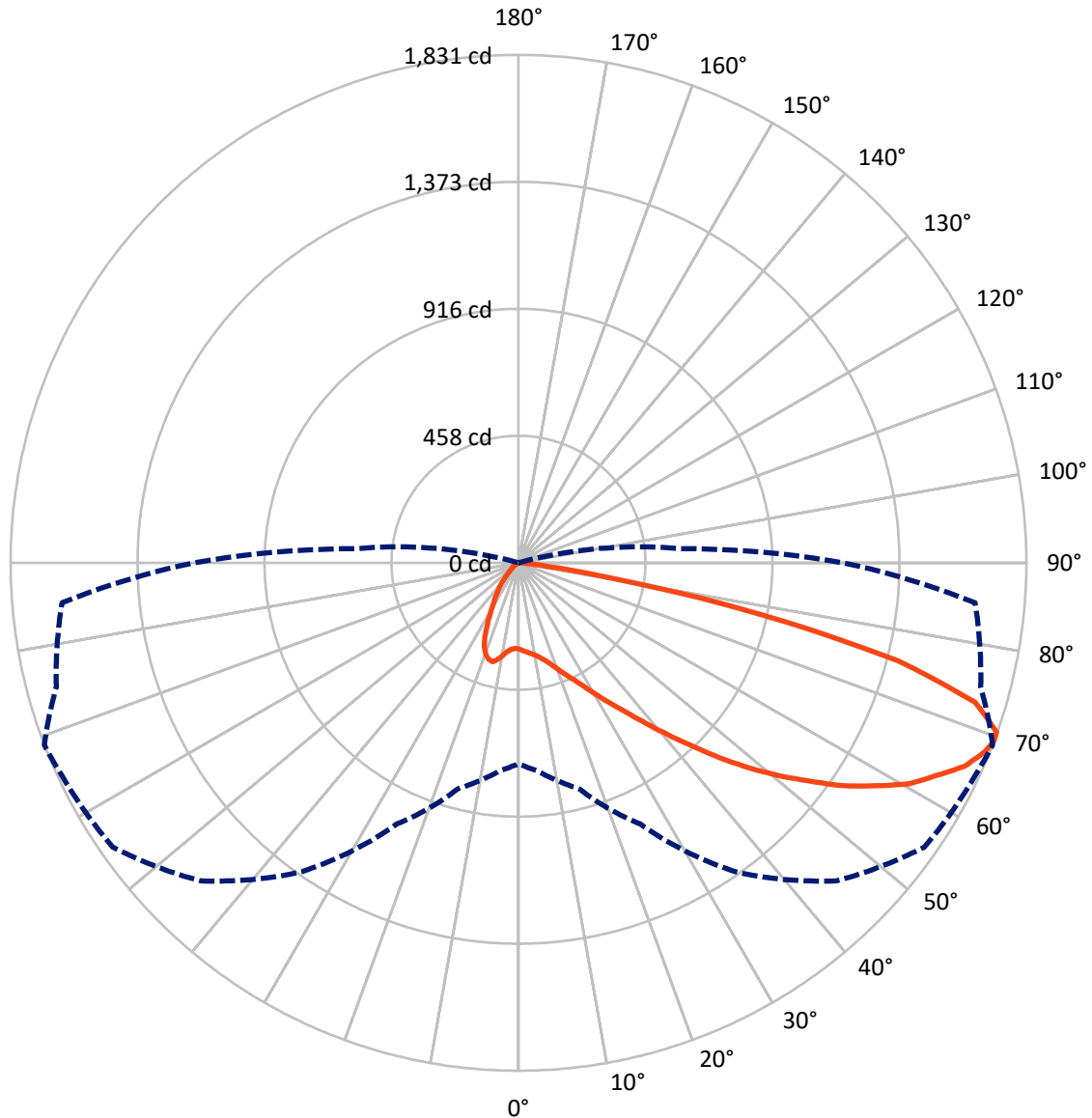
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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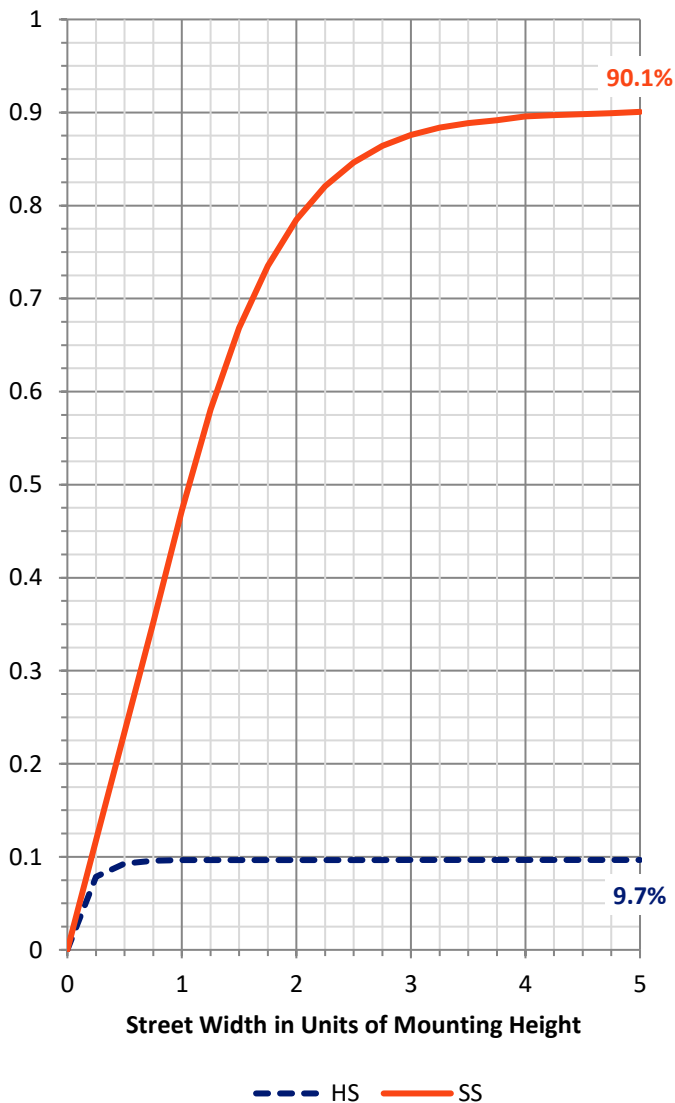
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 272.5 | 0.0 | 272.5 |
| | % Fixture | 9.7 | 0.0 | 9.7 |
| Street Side | Lumens | 2524.5 | 0.0 | 2524.5 |
| | % Fixture | 90.3 | 0.0 | 90.3 |
| Total | Lumens | 2797.0 | 0.0 | 2797.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 29.7 | 1.1 |
| 10°-20° | 78.5 | 2.8 |
| 20°-30° | 130.7 | 4.7 |
| 30°-40° | 235.3 | 8.4 |
| 40°-50° | 426.6 | 15.3 |
| 50°-60° | 666.7 | 23.8 |
| 60°-70° | 771.3 | 27.6 |
| 70°-80° | 431.4 | 15.4 |
| 80°-90° | 26.9 | 1.0 |
| 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° | 2797.0 | 100.0 |
| 0°-180° | 2797.0 | 100.0 |

Coefficient of Utilization

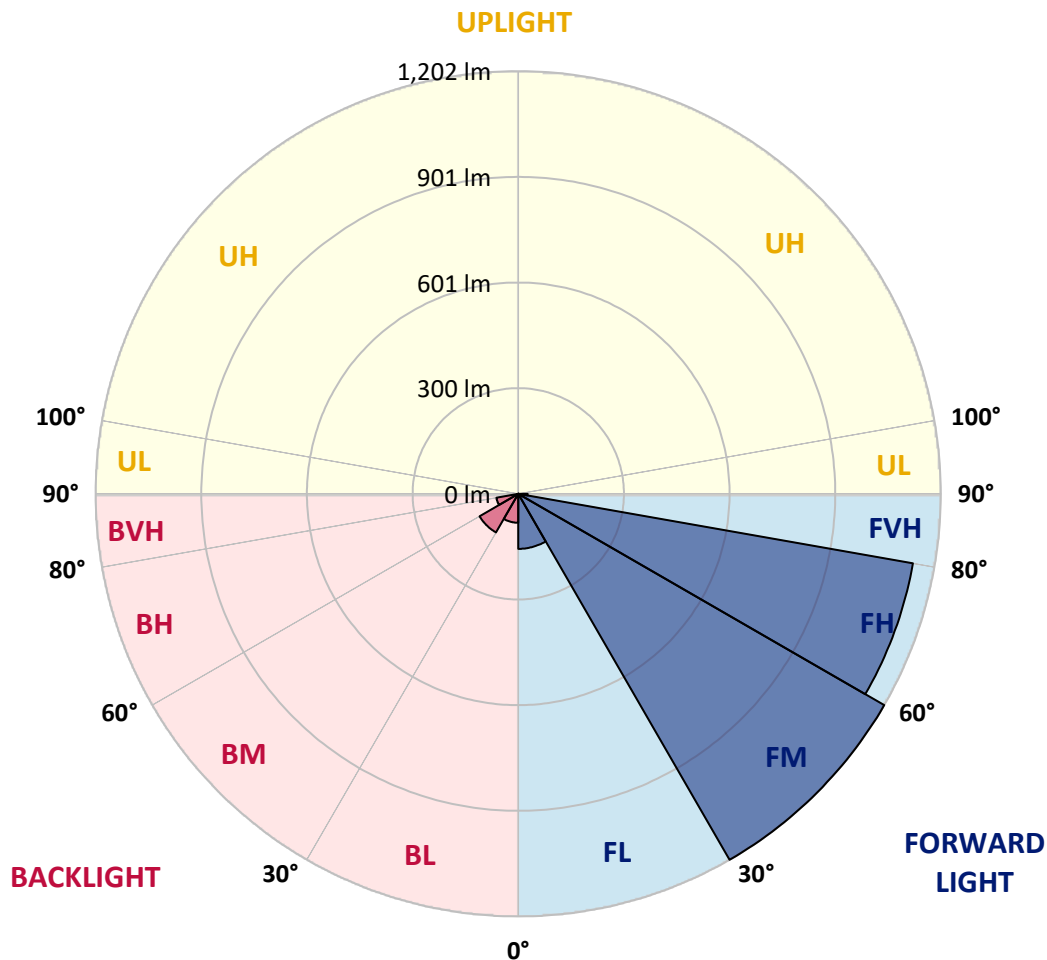


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 156.5 | 5.6 | | | |
| FM (30°-60°) | 1201.7 | 43.0 | | | |
| FH (60°-80°) | 1139.6 | 40.7 | | | G1/1800 |
| FVH (80°-90°) | 26.7 | 1.0 | | | G1/100 |
| BL (0°-30°) | 82.4 | 2.9 | B0/110 | | |
| BM (30°-60°) | 126.9 | 4.5 | B0/220 | | |
| BH (60°-80°) | 63.1 | 2.3 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 69° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 311.1 | 311.1 | 311.1 | 311.1 | 311.1 | 311.1 | 311.1 | 311.1 | 311.1 | 311.1 | 311.1 |
| 2.5° | 322.3 | 322.3 | 322.3 | 320.4 | 321.4 | 320.4 | 319.5 | 316.7 | 317.6 | 316.7 | 313.9 |
| 5° | 311.1 | 312.1 | 314.8 | 316.7 | 321.4 | 323.2 | 324.2 | 324.2 | 323.2 | 321.4 | 319.5 |
| 7.5° | 289.7 | 289.7 | 292.5 | 298.1 | 307.4 | 317.6 | 326.0 | 330.7 | 331.6 | 331.6 | 328.8 |
| 10° | 284.1 | 284.1 | 287.8 | 291.6 | 300.9 | 313.0 | 326.0 | 337.2 | 339.1 | 340.9 | 340.0 |
| 12.5° | 281.3 | 282.2 | 286.0 | 292.5 | 304.6 | 315.8 | 329.8 | 345.6 | 351.2 | 355.8 | 356.8 |
| 15° | 285.0 | 285.0 | 288.8 | 295.3 | 309.3 | 325.1 | 342.8 | 360.5 | 366.1 | 372.6 | 377.3 |
| 17.5° | 290.6 | 292.5 | 294.4 | 300.9 | 313.9 | 333.5 | 356.8 | 380.1 | 386.6 | 395.0 | 398.7 |
| 20° | 299.9 | 299.9 | 301.8 | 307.4 | 321.4 | 344.7 | 377.3 | 405.2 | 410.8 | 416.4 | 421.0 |
| 22.5° | 311.1 | 312.1 | 312.1 | 316.7 | 332.5 | 357.7 | 395.0 | 429.4 | 438.7 | 441.5 | 443.4 |
| 25° | 344.7 | 342.8 | 336.3 | 333.5 | 345.6 | 372.6 | 416.4 | 458.3 | 468.5 | 471.3 | 467.6 |
| 27.5° | 414.5 | 407.1 | 389.4 | 370.7 | 368.9 | 395.9 | 445.3 | 494.6 | 505.8 | 506.7 | 493.7 |
| 30° | 502.1 | 503.0 | 474.1 | 434.1 | 407.1 | 421.0 | 476.9 | 540.3 | 551.4 | 546.8 | 526.3 |
| 32.5° | 610.1 | 605.5 | 584.1 | 526.3 | 472.3 | 460.2 | 511.4 | 587.8 | 600.8 | 593.4 | 566.4 |
| 35° | 702.4 | 705.1 | 679.1 | 627.8 | 559.8 | 520.7 | 553.3 | 640.9 | 656.7 | 643.7 | 610.1 |
| 37.5° | 779.7 | 783.4 | 767.6 | 725.6 | 665.1 | 603.6 | 608.3 | 703.3 | 724.7 | 711.7 | 669.7 |
| 40° | 865.4 | 868.2 | 861.6 | 816.0 | 762.0 | 702.4 | 681.9 | 775.0 | 803.9 | 786.2 | 742.4 |
| 42.5° | 959.4 | 969.7 | 958.5 | 922.2 | 866.3 | 815.1 | 784.3 | 862.6 | 891.4 | 880.3 | 821.6 |
| 45° | 1088.0 | 1088.9 | 1075.9 | 1039.6 | 981.8 | 939.9 | 902.6 | 955.7 | 993.0 | 979.0 | 910.1 |
| 47.5° | 1183.0 | 1189.5 | 1182.1 | 1156.9 | 1110.3 | 1082.4 | 1031.2 | 1058.2 | 1097.3 | 1079.6 | 1001.4 |
| 50° | 1255.7 | 1273.4 | 1266.8 | 1274.3 | 1251.0 | 1238.9 | 1160.6 | 1164.4 | 1202.6 | 1187.7 | 1094.5 |
| 52.5° | 1295.7 | 1318.1 | 1319.9 | 1358.1 | 1377.7 | 1407.5 | 1286.4 | 1280.8 | 1305.0 | 1292.0 | 1189.5 |
| 55° | 1290.1 | 1295.7 | 1342.3 | 1412.2 | 1488.5 | 1556.5 | 1409.4 | 1386.1 | 1419.6 | 1383.3 | 1290.1 |
| 57.5° | 1236.1 | 1250.1 | 1332.0 | 1418.7 | 1553.7 | 1652.5 | 1515.6 | 1489.5 | 1517.4 | 1469.0 | 1393.5 |
| 60° | 1158.8 | 1179.3 | 1284.5 | 1408.4 | 1591.9 | 1710.2 | 1618.9 | 1592.9 | 1618.0 | 1559.3 | 1510.9 |
| 62.5° | 1088.9 | 1098.2 | 1195.1 | 1365.6 | 1569.6 | 1707.4 | 1699.1 | 1674.8 | 1689.7 | 1628.3 | 1611.5 |
| 65° | 989.3 | 993.0 | 1088.9 | 1288.3 | 1520.2 | 1688.8 | 1742.8 | 1752.2 | 1768.0 | 1686.0 | 1683.2 |
| 67.5° | 835.6 | 843.9 | 939.0 | 1153.2 | 1438.2 | 1652.5 | 1777.3 | 1795.9 | 1814.6 | 1716.8 | 1696.3 |
| 69° | 724.7 | 751.7 | 843.0 | 1039.6 | 1359.1 | 1621.7 | 1786.6 | 1816.4 | 1831.3 | 1725.1 | 1652.5 |
| 70° | 634.4 | 657.6 | 762.9 | 952.0 | 1289.2 | 1587.3 | 1793.1 | 1813.6 | 1828.5 | 1707.4 | 1580.8 |
| 72.5° | 318.6 | 348.4 | 492.8 | 694.9 | 1024.7 | 1429.9 | 1759.6 | 1737.2 | 1721.4 | 1570.5 | 1279.0 |
| 75° | 123.0 | 127.6 | 211.5 | 395.9 | 640.9 | 1049.8 | 1502.5 | 1460.6 | 1414.0 | 1191.4 | 758.2 |
| 77.5° | 68.0 | 67.1 | 92.2 | 175.1 | 272.9 | 513.3 | 1016.3 | 949.2 | 884.9 | 639.9 | 307.4 |
| 80° | 28.9 | 30.7 | 40.1 | 83.8 | 143.5 | 177.9 | 493.7 | 438.7 | 349.3 | 203.1 | 73.6 |
| 82.5° | 17.7 | 18.6 | 27.9 | 51.2 | 99.7 | 68.0 | 160.2 | 136.9 | 100.6 | 55.0 | 17.7 |
| 85° | 5.6 | 6.5 | 19.6 | 34.5 | 48.4 | 27.9 | 36.3 | 31.7 | 27.9 | 23.3 | 5.6 |
| 87.5° | 0.9 | 0.9 | 7.5 | 18.6 | 13.0 | 4.7 | 3.7 | 6.5 | 10.2 | 11.2 | 1.9 |
| 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° | 311.1 | 311.1 | 311.1 | 311.1 | 311.1 | 311.1 | 311.1 | 311.1 | 311.1 | 311.1 | 311.1 |
| 2.5° | 313.0 | 311.1 | 309.3 | 308.3 | 308.3 | 306.5 | 305.5 | 304.6 | 304.6 | 303.7 | 303.7 |
| 5° | 316.7 | 314.8 | 313.0 | 312.1 | 310.2 | 309.3 | 309.3 | 309.3 | 308.3 | 309.3 | 310.2 |
| 7.5° | 326.0 | 323.2 | 322.3 | 321.4 | 321.4 | 318.6 | 313.9 | 301.8 | 289.7 | 286.0 | 282.2 |
| 10° | 339.1 | 338.1 | 338.1 | 338.1 | 331.6 | 307.4 | 273.9 | 244.1 | 228.2 | 215.2 | 215.2 |
| 12.5° | 357.7 | 357.7 | 356.8 | 354.0 | 320.4 | 261.8 | 209.6 | 164.9 | 138.8 | 123.9 | 125.8 |
| 15° | 378.2 | 377.3 | 379.1 | 361.4 | 282.2 | 202.1 | 126.7 | 89.4 | 75.5 | 73.6 | 73.6 |
| 17.5° | 399.6 | 401.5 | 399.6 | 341.9 | 231.9 | 124.8 | 75.5 | 68.0 | 66.1 | 66.1 | 66.1 |
| 20° | 422.0 | 420.1 | 417.3 | 308.3 | 168.6 | 78.2 | 65.2 | 63.3 | 61.5 | 60.5 | 60.5 |
| 22.5° | 444.3 | 442.5 | 423.8 | 265.5 | 105.3 | 64.3 | 61.5 | 57.8 | 55.0 | 54.0 | 54.0 |
| 25° | 465.8 | 465.8 | 411.7 | 210.5 | 71.7 | 60.5 | 55.9 | 52.2 | 49.4 | 46.6 | 46.6 |
| 27.5° | 492.8 | 494.6 | 392.2 | 147.2 | 60.5 | 55.9 | 50.3 | 44.7 | 41.0 | 39.1 | 39.1 |
| 30° | 523.5 | 526.3 | 360.5 | 95.9 | 55.0 | 49.4 | 43.8 | 37.3 | 31.7 | 29.8 | 28.9 |
| 32.5° | 559.8 | 562.6 | 324.2 | 63.3 | 49.4 | 42.8 | 36.3 | 27.9 | 22.4 | 21.4 | 20.5 |
| 35° | 606.4 | 599.9 | 280.4 | 50.3 | 42.8 | 36.3 | 27.9 | 19.6 | 15.8 | 14.9 | 14.9 |
| 37.5° | 664.2 | 650.2 | 230.1 | 43.8 | 36.3 | 28.9 | 20.5 | 13.0 | 10.2 | 10.2 | 9.3 |
| 40° | 730.3 | 691.2 | 177.9 | 39.1 | 30.7 | 22.4 | 13.0 | 8.4 | 6.5 | 6.5 | 6.5 |
| 42.5° | 803.0 | 725.6 | 126.7 | 34.5 | 25.2 | 15.8 | 8.4 | 4.7 | 3.7 | 3.7 | 3.7 |
| 45° | 886.8 | 757.3 | 86.6 | 29.8 | 21.4 | 11.2 | 4.7 | 1.9 | 1.9 | 1.9 | 1.9 |
| 47.5° | 970.6 | 777.8 | 57.8 | 26.1 | 15.8 | 6.5 | 2.8 | 0.9 | 0.9 | 0.9 | 0.9 |
| 50° | 1055.4 | 793.6 | 44.7 | 22.4 | 11.2 | 3.7 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 1130.8 | 804.8 | 36.3 | 18.6 | 7.5 | 2.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 1196.0 | 805.7 | 31.7 | 14.9 | 5.6 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 1262.2 | 798.3 | 27.0 | 11.2 | 3.7 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 1302.2 | 778.7 | 21.4 | 8.4 | 2.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 1326.5 | 746.1 | 16.8 | 5.6 | 1.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 1312.5 | 705.1 | 12.1 | 3.7 | 1.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 1247.3 | 641.8 | 8.4 | 2.8 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 69° | 1170.0 | 584.1 | 7.5 | 1.9 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 1102.0 | 539.3 | 6.5 | 1.9 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 820.7 | 347.4 | 5.6 | 1.9 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 461.1 | 116.4 | 3.7 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 173.3 | 29.8 | 1.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 38.2 | 7.5 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 8.4 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 2.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 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)