

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: P595492

Luminaire Tested: **ISW-PA1A-827-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISW-PA1A-827-U-T3
Description: IMPACT ELITE LED WEDGE LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2999 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

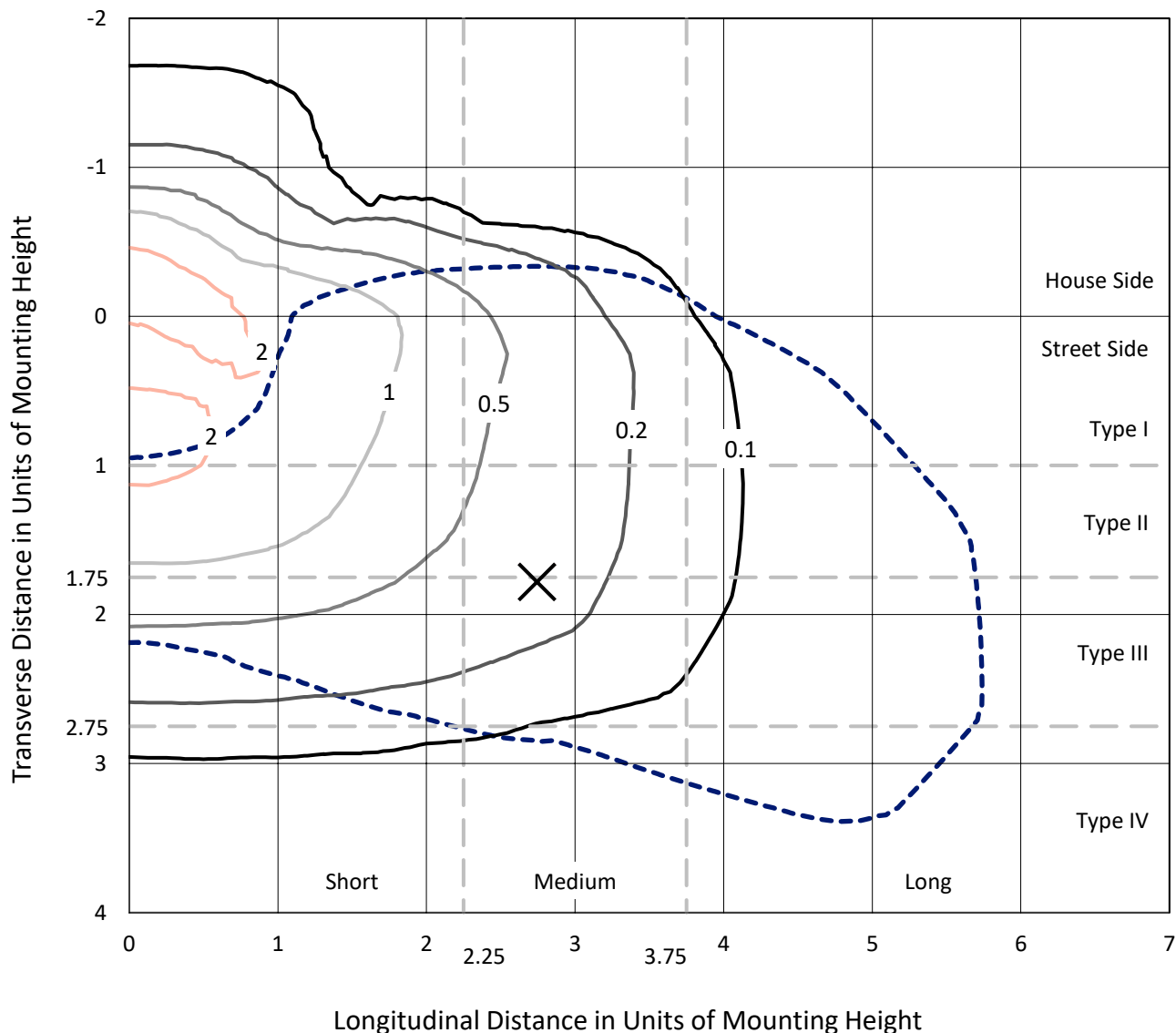
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

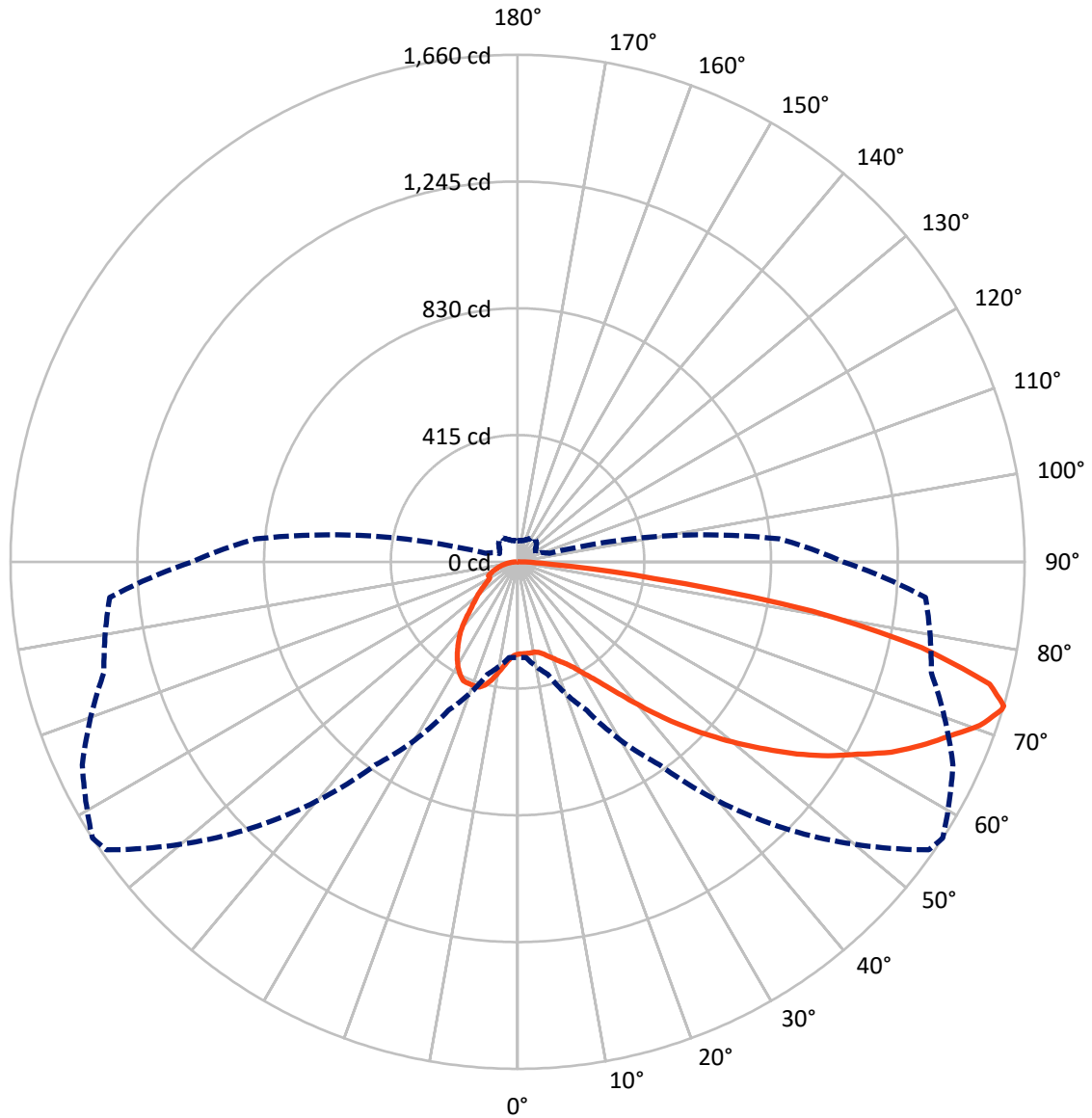
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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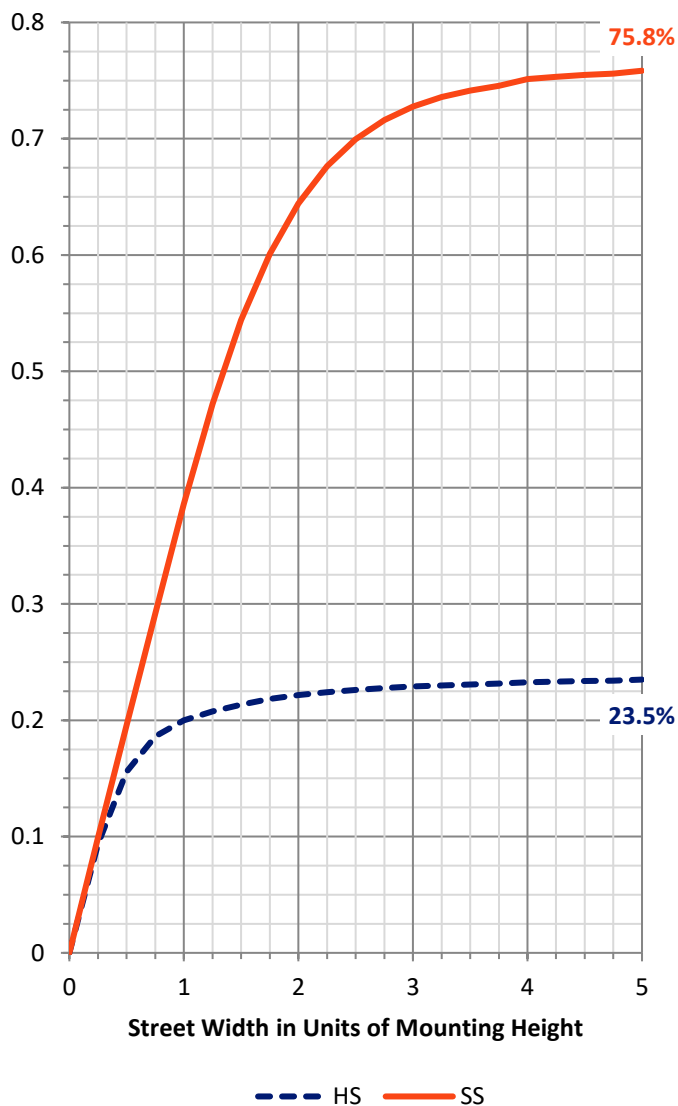
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 715.5 | 0.0 | 715.5 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 2283.5 | 0.0 | 2283.5 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 2999.0 | 0.0 | 2999.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 30.2 | 1.0 |
| 10°-20° | 99.2 | 3.3 |
| 20°-30° | 183.2 | 6.1 |
| 30°-40° | 282.8 | 9.4 |
| 40°-50° | 425.7 | 14.2 |
| 50°-60° | 623.1 | 20.8 |
| 60°-70° | 735.8 | 24.5 |
| 70°-80° | 526.8 | 17.6 |
| 80°-90° | 92.3 | 3.1 |
| 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° | 2999.0 | 100.0 |
| 0°-180° | 2999.0 | 100.0 |

Coefficient of Utilization

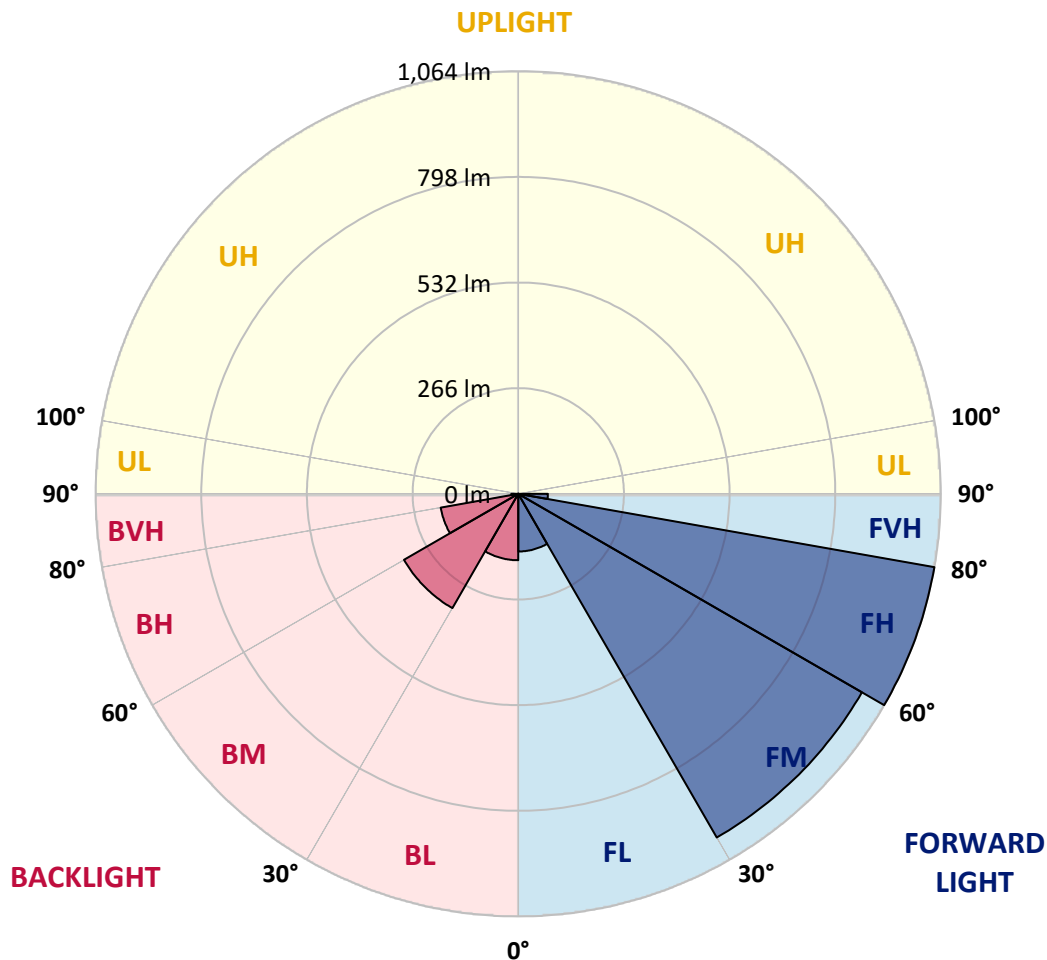


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 145.3 | 4.8 | | | |
| FM | (30°-60°) | 999.3 | 33.3 | | | |
| FH | (60°-80°) | 1064.2 | 35.5 | | | G1/1800 |
| FVH | (80°-90°) | 74.7 | 2.5 | | | G1/100 |
| BL | (0°-30°) | 167.2 | 5.6 | B1/500 | | |
| BM | (30°-60°) | 332.3 | 11.1 | B1/1000 | | |
| BH | (60°-80°) | 198.4 | 6.6 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 17.6 | 0.6 | | | 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 IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 |
| 2.5° | 298.5 | 299.9 | 299.2 | 299.9 | 302.2 | 300.7 | 300.7 | 301.4 | 302.2 | 301.4 | 302.9 |
| 5° | 286.0 | 286.7 | 288.2 | 291.1 | 296.3 | 297.7 | 301.4 | 301.4 | 302.9 | 304.4 | 306.6 |
| 7.5° | 265.4 | 266.9 | 269.8 | 272.7 | 281.6 | 290.4 | 299.9 | 301.4 | 306.6 | 310.2 | 311.7 |
| 10° | 261.7 | 263.2 | 263.9 | 268.3 | 277.2 | 286.0 | 297.7 | 300.7 | 310.2 | 316.1 | 322.7 |
| 12.5° | 258.0 | 259.5 | 261.7 | 267.6 | 278.6 | 288.2 | 300.7 | 303.6 | 315.4 | 327.1 | 335.2 |
| 15° | 261.0 | 261.7 | 263.9 | 269.8 | 280.8 | 294.1 | 310.2 | 312.4 | 325.7 | 340.4 | 352.9 |
| 17.5° | 268.3 | 269.1 | 268.3 | 273.5 | 283.8 | 299.2 | 321.3 | 324.9 | 341.1 | 355.8 | 368.3 |
| 20° | 285.2 | 286.0 | 283.0 | 283.0 | 290.4 | 305.8 | 333.0 | 338.2 | 358.0 | 374.2 | 386.7 |
| 22.5° | 322.0 | 320.5 | 313.2 | 303.6 | 303.6 | 316.1 | 346.3 | 353.6 | 378.6 | 391.8 | 402.9 |
| 25° | 374.2 | 374.2 | 362.4 | 344.8 | 333.0 | 331.6 | 361.7 | 369.8 | 399.2 | 415.4 | 422.0 |
| 27.5° | 437.4 | 438.2 | 419.0 | 395.5 | 372.7 | 361.7 | 383.8 | 391.8 | 424.9 | 441.8 | 444.0 |
| 30° | 493.3 | 494.0 | 474.9 | 452.9 | 424.9 | 400.7 | 413.2 | 422.0 | 460.2 | 473.4 | 466.1 |
| 32.5° | 549.2 | 549.9 | 536.7 | 506.5 | 477.1 | 447.0 | 450.7 | 455.8 | 494.8 | 507.3 | 495.5 |
| 35° | 597.7 | 599.9 | 586.7 | 563.9 | 533.0 | 505.8 | 499.2 | 499.9 | 535.2 | 543.3 | 527.8 |
| 37.5° | 646.9 | 646.9 | 638.9 | 617.5 | 591.1 | 560.9 | 552.1 | 554.3 | 585.9 | 594.0 | 572.0 |
| 40° | 709.4 | 712.4 | 708.0 | 681.5 | 651.4 | 626.4 | 617.5 | 620.5 | 655.0 | 650.6 | 627.1 |
| 42.5° | 785.2 | 791.8 | 784.4 | 755.7 | 723.4 | 695.5 | 695.5 | 695.5 | 724.9 | 725.6 | 690.3 |
| 45° | 882.2 | 882.2 | 874.8 | 849.8 | 807.2 | 779.3 | 769.7 | 771.9 | 797.6 | 800.6 | 759.4 |
| 47.5° | 963.1 | 970.4 | 962.3 | 943.9 | 910.1 | 883.7 | 853.5 | 849.8 | 871.2 | 871.2 | 835.9 |
| 50° | 1028.5 | 1041.7 | 1035.1 | 1043.2 | 1018.9 | 1005.7 | 943.9 | 933.7 | 941.0 | 948.4 | 909.4 |
| 52.5° | 1082.9 | 1093.2 | 1091.0 | 1114.5 | 1126.3 | 1133.6 | 1035.8 | 1019.7 | 1025.5 | 1024.8 | 989.5 |
| 55° | 1086.6 | 1090.2 | 1123.3 | 1176.3 | 1222.6 | 1257.1 | 1128.5 | 1110.8 | 1104.9 | 1102.0 | 1074.8 |
| 57.5° | 1065.2 | 1067.5 | 1133.6 | 1196.1 | 1296.8 | 1336.5 | 1216.0 | 1198.3 | 1190.2 | 1179.9 | 1168.9 |
| 60° | 1013.8 | 1024.8 | 1111.6 | 1207.9 | 1340.9 | 1398.3 | 1297.6 | 1279.2 | 1273.3 | 1251.2 | 1276.2 |
| 62.5° | 948.4 | 953.5 | 1040.3 | 1183.6 | 1346.8 | 1424.7 | 1383.6 | 1372.5 | 1354.2 | 1322.6 | 1371.8 |
| 65° | 855.7 | 855.0 | 931.4 | 1112.3 | 1316.7 | 1438.0 | 1456.4 | 1450.5 | 1427.7 | 1373.3 | 1457.1 |
| 67.5° | 702.8 | 719.7 | 794.7 | 985.8 | 1243.9 | 1451.2 | 1530.6 | 1523.3 | 1487.2 | 1418.9 | 1497.5 |
| 70° | 535.9 | 546.2 | 631.5 | 796.2 | 1099.1 | 1415.2 | 1603.4 | 1605.6 | 1540.2 | 1428.4 | 1479.9 |
| 72.5° | 341.8 | 359.5 | 427.1 | 580.0 | 880.0 | 1281.4 | 1646.8 | 1657.0 | 1569.6 | 1415.2 | 1370.3 |
| 73° | 313.2 | 314.6 | 380.8 | 536.7 | 811.6 | 1233.6 | 1643.8 | 1660.0 | 1572.5 | 1401.9 | 1340.2 |
| 75° | 186.7 | 194.8 | 234.5 | 356.6 | 579.3 | 991.0 | 1564.4 | 1596.8 | 1557.1 | 1343.1 | 1174.8 |
| 77.5° | 87.5 | 93.4 | 115.4 | 188.2 | 315.4 | 596.2 | 1315.2 | 1353.4 | 1379.9 | 1175.5 | 895.4 |
| 80° | 46.3 | 47.1 | 56.6 | 94.8 | 169.1 | 245.5 | 916.7 | 980.0 | 1017.5 | 885.1 | 602.1 |
| 82.5° | 39.0 | 39.0 | 44.1 | 61.0 | 108.1 | 95.6 | 377.9 | 449.9 | 551.4 | 435.9 | 236.7 |
| 85° | 31.6 | 32.3 | 44.1 | 45.6 | 77.2 | 49.3 | 90.4 | 113.2 | 213.9 | 192.6 | 26.5 |
| 87.5° | 10.3 | 11.8 | 25.0 | 32.3 | 41.2 | 19.1 | 22.8 | 25.0 | 25.0 | 36.8 | 8.8 |
| 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° | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 |
| 2.5° | 303.6 | 303.6 | 304.4 | 305.1 | 306.6 | 306.6 | 308.0 | 308.8 | 310.2 | 311.0 | 308.8 |
| 5° | 306.6 | 308.0 | 309.5 | 313.9 | 319.1 | 323.5 | 327.9 | 331.6 | 335.2 | 337.4 | 336.7 |
| 7.5° | 314.6 | 316.9 | 322.7 | 330.8 | 341.1 | 347.7 | 354.3 | 361.0 | 363.9 | 365.4 | 365.4 |
| 10° | 325.7 | 330.1 | 341.1 | 354.3 | 366.1 | 376.4 | 381.5 | 386.0 | 387.4 | 388.9 | 387.4 |
| 12.5° | 341.1 | 347.0 | 363.9 | 380.8 | 394.0 | 399.2 | 398.5 | 392.6 | 384.5 | 383.0 | 381.5 |
| 15° | 361.0 | 368.3 | 387.4 | 407.3 | 417.6 | 411.0 | 394.0 | 388.2 | 386.7 | 391.1 | 389.6 |
| 17.5° | 377.9 | 386.7 | 410.2 | 430.8 | 428.6 | 405.8 | 400.7 | 403.6 | 402.1 | 402.9 | 402.9 |
| 20° | 394.0 | 406.5 | 431.5 | 445.5 | 426.4 | 411.7 | 407.3 | 403.6 | 399.2 | 400.7 | 399.2 |
| 22.5° | 414.6 | 423.5 | 452.1 | 452.9 | 423.5 | 411.7 | 402.1 | 394.8 | 393.3 | 394.0 | 394.8 |
| 25° | 430.8 | 444.8 | 469.8 | 447.7 | 423.5 | 399.9 | 386.7 | 385.2 | 386.0 | 390.4 | 388.9 |
| 27.5° | 452.9 | 466.8 | 483.7 | 444.8 | 405.8 | 380.8 | 375.7 | 374.9 | 369.8 | 371.3 | 371.3 |
| 30° | 473.4 | 490.4 | 491.1 | 444.8 | 383.8 | 364.6 | 357.3 | 344.1 | 333.0 | 335.2 | 334.5 |
| 32.5° | 501.4 | 516.1 | 492.6 | 427.1 | 358.8 | 343.3 | 323.5 | 302.9 | 297.7 | 300.7 | 301.4 |
| 35° | 533.7 | 545.5 | 494.0 | 397.7 | 333.8 | 313.2 | 277.2 | 265.4 | 264.7 | 266.9 | 269.1 |
| 37.5° | 576.4 | 583.0 | 505.1 | 363.9 | 309.5 | 266.1 | 238.2 | 235.3 | 228.6 | 224.2 | 225.0 |
| 40° | 628.6 | 620.5 | 526.4 | 333.8 | 280.8 | 223.5 | 211.7 | 203.6 | 191.1 | 178.6 | 180.8 |
| 42.5° | 686.6 | 663.8 | 533.0 | 309.5 | 241.9 | 197.0 | 186.0 | 173.5 | 158.1 | 144.8 | 144.1 |
| 45° | 749.1 | 712.4 | 527.1 | 290.4 | 202.9 | 177.2 | 165.4 | 150.7 | 132.3 | 121.3 | 121.3 |
| 47.5° | 823.4 | 758.7 | 508.7 | 274.9 | 175.7 | 159.5 | 144.8 | 130.1 | 117.6 | 107.3 | 107.3 |
| 50° | 905.0 | 812.4 | 495.5 | 247.7 | 156.6 | 142.6 | 127.9 | 116.2 | 106.6 | 98.5 | 98.5 |
| 52.5° | 991.0 | 863.1 | 484.5 | 208.1 | 139.7 | 127.2 | 116.9 | 107.3 | 99.2 | 89.0 | 87.5 |
| 55° | 1078.5 | 911.6 | 489.6 | 169.8 | 124.2 | 116.2 | 109.5 | 100.0 | 97.0 | 94.8 | 93.4 |
| 57.5° | 1169.6 | 964.5 | 502.1 | 138.9 | 111.0 | 110.3 | 107.3 | 113.9 | 120.6 | 116.2 | 113.9 |
| 60° | 1240.9 | 1005.7 | 503.6 | 116.9 | 102.9 | 116.2 | 130.9 | 133.1 | 115.4 | 105.1 | 104.4 |
| 62.5° | 1297.6 | 1044.7 | 469.0 | 101.5 | 105.1 | 136.7 | 139.7 | 117.6 | 100.0 | 95.6 | 95.6 |
| 65° | 1327.0 | 1058.6 | 377.1 | 92.6 | 109.5 | 130.9 | 126.4 | 105.9 | 93.4 | 92.6 | 92.6 |
| 67.5° | 1312.3 | 1047.6 | 263.9 | 83.1 | 97.0 | 113.2 | 113.2 | 97.0 | 86.0 | 89.7 | 88.2 |
| 70° | 1241.7 | 993.2 | 174.2 | 75.0 | 85.3 | 102.2 | 105.1 | 90.4 | 80.1 | 82.3 | 80.1 |
| 72.5° | 1094.7 | 896.2 | 114.7 | 66.2 | 73.5 | 90.4 | 97.8 | 83.1 | 73.5 | 72.8 | 70.6 |
| 73° | 1066.0 | 859.4 | 108.1 | 64.7 | 71.3 | 87.5 | 95.6 | 81.6 | 72.0 | 69.8 | 68.4 |
| 75° | 904.2 | 716.8 | 81.6 | 58.1 | 63.2 | 78.7 | 89.0 | 76.5 | 66.2 | 63.2 | 61.8 |
| 77.5° | 658.7 | 497.0 | 61.0 | 49.3 | 52.9 | 68.4 | 78.7 | 69.8 | 58.8 | 55.1 | 54.4 |
| 80° | 411.0 | 270.5 | 45.6 | 39.7 | 41.9 | 57.3 | 69.1 | 62.5 | 50.7 | 46.3 | 45.6 |
| 82.5° | 161.0 | 88.2 | 31.6 | 29.4 | 30.9 | 43.4 | 58.1 | 54.4 | 42.6 | 39.0 | 36.8 |
| 85° | 26.5 | 30.1 | 20.6 | 19.8 | 19.8 | 30.9 | 44.1 | 41.9 | 28.7 | 25.0 | 22.1 |
| 87.5° | 7.4 | 14.0 | 8.1 | 7.4 | 7.4 | 13.2 | 24.3 | 19.1 | 11.8 | 9.6 | 8.8 |
| 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)