

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: P270175

Luminaire Tested: **GWC-AF-01-LED-E1-T2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-T2-7027-800
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4378.4 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G1

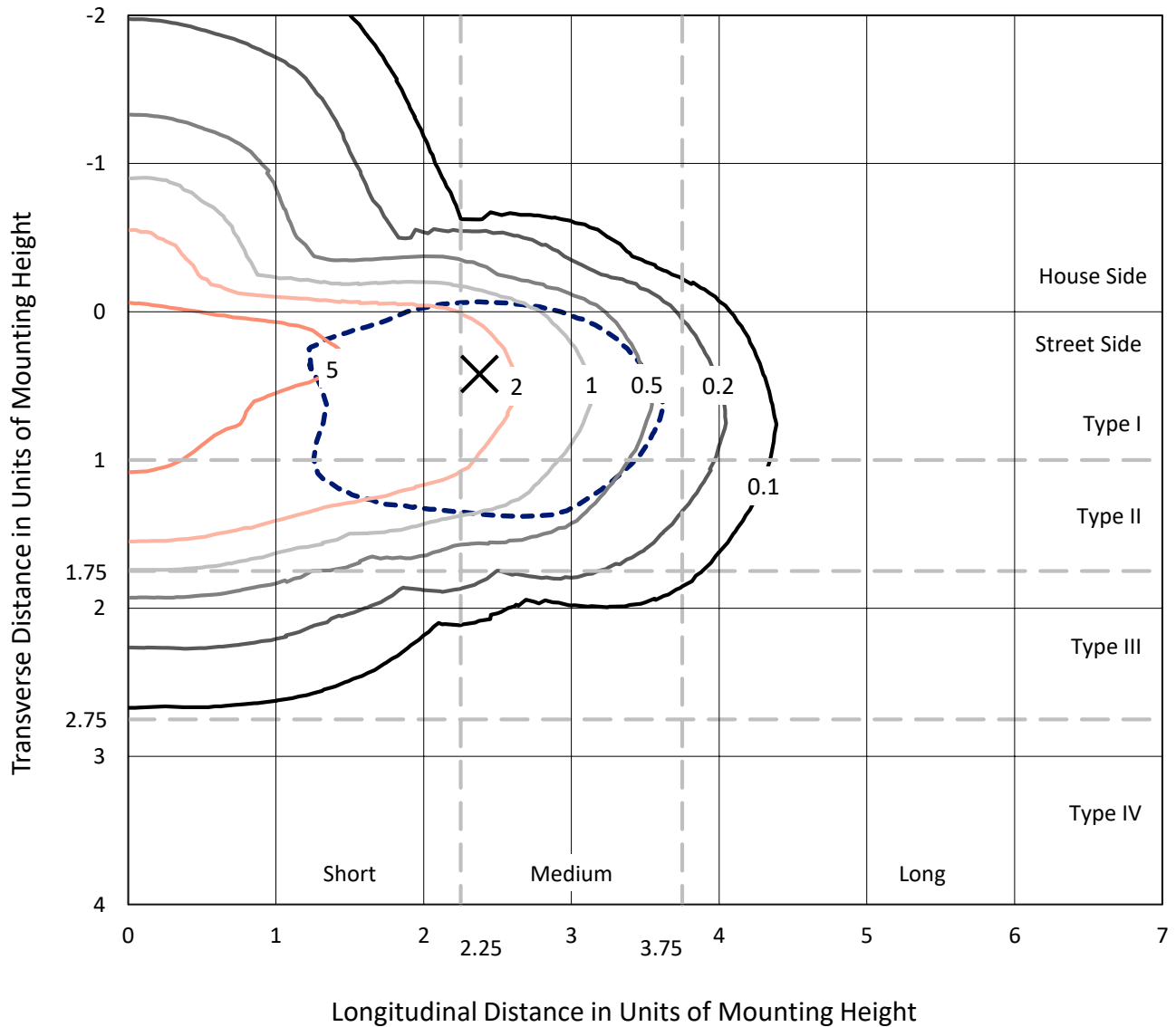
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

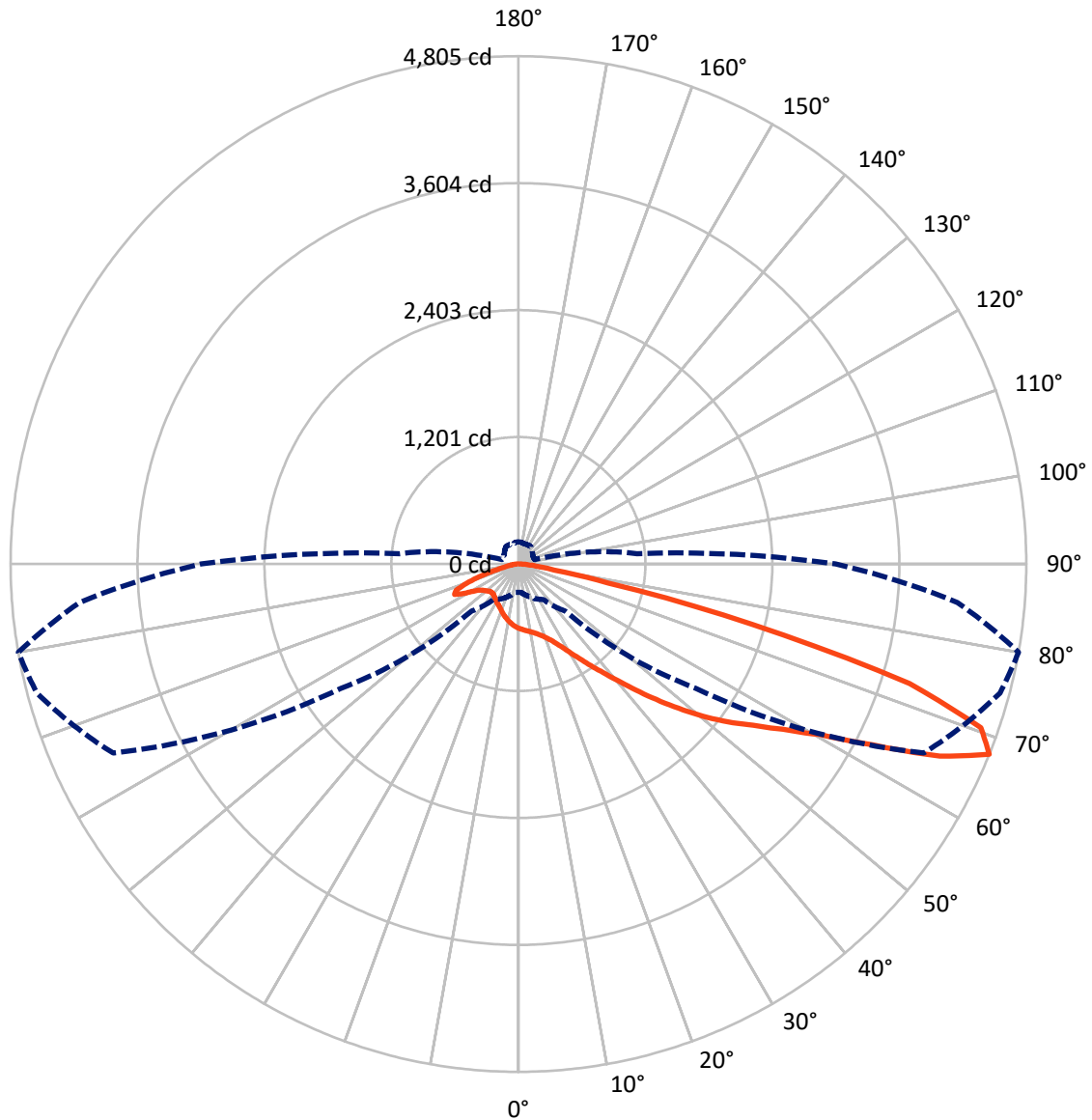
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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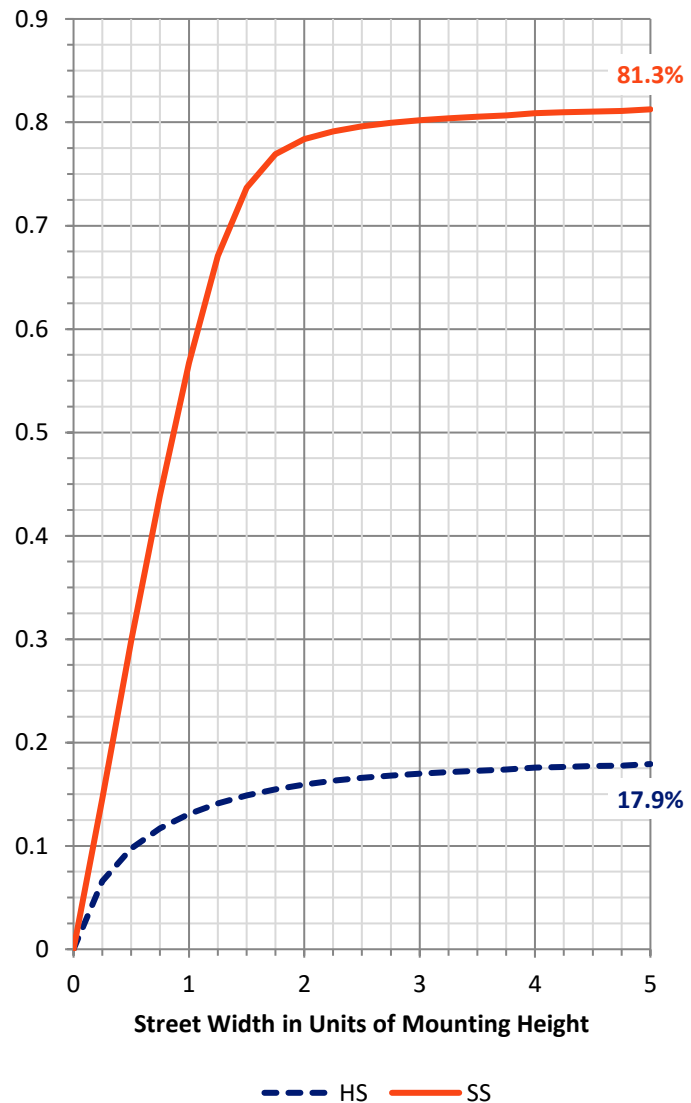
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 806.3 | 0.0 | 806.3 |
| | % Fixture | 18.4 | 0.0 | 18.4 |
| Street Side | Lumens | 3572.1 | 0.0 | 3572.1 |
| | % Fixture | 81.6 | 0.0 | 81.6 |
| Total | Lumens | 4378.4 | 0.0 | 4378.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 56.1 | 1.3 |
| 10°-20° | 161.6 | 3.7 |
| 20°-30° | 267.5 | 6.1 |
| 30°-40° | 437.6 | 10.0 |
| 40°-50° | 706.6 | 16.1 |
| 50°-60° | 1020.2 | 23.3 |
| 60°-70° | 1125.8 | 25.7 |
| 70°-80° | 518.9 | 11.9 |
| 80°-90° | 83.9 | 1.9 |
| 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° | 4378.4 | 100.0 |
| 0°-180° | 4378.4 | 100.0 |



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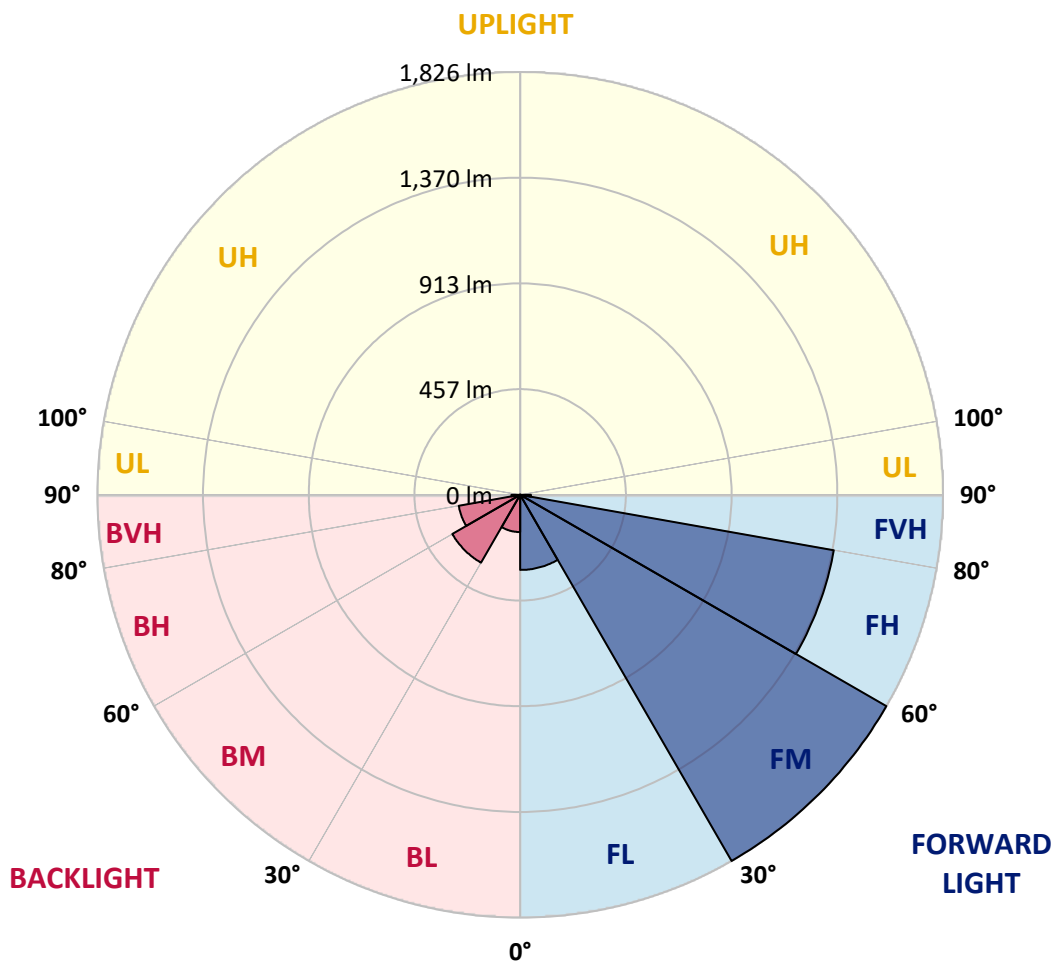
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 324.4 | 7.4 | | | |
| FM | (30°-60°) | 1826.1 | 41.7 | | | |
| FH | (60°-80°) | 1375.4 | 31.4 | | | G1/1800 |
| FVH | (80°-90°) | 46.1 | 1.1 | | | G1/100 |
| BL | (0°-30°) | 160.9 | 3.7 | B1/500 | | |
| BM | (30°-60°) | 338.3 | 7.7 | B1/1000 | | |
| BH | (60°-80°) | 269.4 | 6.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 37.8 | 0.9 | | | 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° | 80° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 608.3 | 608.3 | 608.3 | 608.3 | 608.3 | 608.3 | 608.3 | 608.3 | 608.3 | 608.3 | 608.3 |
| 2.5° | 665.5 | 661.5 | 662.2 | 661.2 | 657.9 | 652.3 | 646.2 | 635.2 | 623.9 | 617.8 | 613.1 |
| 5° | 721.0 | 719.9 | 718.5 | 715.1 | 706.7 | 695.2 | 680.7 | 661.3 | 640.4 | 629.4 | 618.8 |
| 7.5° | 762.7 | 762.0 | 760.1 | 757.9 | 749.9 | 735.9 | 714.2 | 686.6 | 656.1 | 641.0 | 624.7 |
| 10° | 766.1 | 767.2 | 768.7 | 774.5 | 775.5 | 768.1 | 745.9 | 712.4 | 672.6 | 653.1 | 632.1 |
| 12.5° | 736.8 | 739.1 | 745.0 | 759.8 | 775.5 | 784.8 | 773.4 | 739.6 | 691.8 | 668.2 | 641.7 |
| 15° | 698.0 | 699.2 | 706.3 | 726.9 | 755.0 | 783.7 | 794.6 | 769.5 | 716.5 | 687.7 | 655.9 |
| 17.5° | 681.4 | 682.1 | 686.9 | 700.6 | 726.9 | 767.8 | 806.4 | 802.0 | 746.9 | 711.7 | 673.4 |
| 20° | 672.9 | 674.4 | 681.5 | 694.8 | 711.5 | 747.3 | 808.0 | 837.2 | 783.1 | 741.9 | 695.4 |
| 22.5° | 696.8 | 696.2 | 698.8 | 705.4 | 719.5 | 741.0 | 806.8 | 873.4 | 829.2 | 780.7 | 724.0 |
| 25° | 752.7 | 755.0 | 750.5 | 743.0 | 747.5 | 762.7 | 813.8 | 912.7 | 886.9 | 830.6 | 761.6 |
| 27.5° | 832.2 | 829.9 | 823.1 | 805.5 | 796.3 | 802.7 | 836.5 | 954.9 | 958.9 | 896.1 | 811.1 |
| 30° | 911.6 | 909.7 | 903.2 | 881.5 | 862.6 | 857.3 | 881.0 | 1003.3 | 1044.4 | 974.8 | 872.0 |
| 32.5° | 994.0 | 991.8 | 985.7 | 964.2 | 941.3 | 928.8 | 944.1 | 1059.5 | 1145.2 | 1068.8 | 943.5 |
| 35° | 1095.5 | 1091.4 | 1078.7 | 1048.6 | 1026.3 | 1016.5 | 1023.7 | 1129.9 | 1261.6 | 1180.0 | 1030.4 |
| 37.5° | 1191.0 | 1197.3 | 1184.2 | 1142.9 | 1113.8 | 1110.3 | 1118.3 | 1215.9 | 1387.1 | 1304.2 | 1130.2 |
| 40° | 1286.8 | 1287.9 | 1276.3 | 1242.4 | 1212.5 | 1206.9 | 1226.9 | 1320.2 | 1535.2 | 1453.0 | 1251.5 |
| 42.5° | 1385.9 | 1388.2 | 1368.6 | 1337.2 | 1315.3 | 1316.3 | 1339.3 | 1442.5 | 1705.1 | 1628.3 | 1391.1 |
| 45° | 1503.5 | 1506.6 | 1485.2 | 1444.1 | 1424.2 | 1464.4 | 1455.0 | 1579.6 | 1891.2 | 1827.4 | 1551.6 |
| 47.5° | 1626.3 | 1631.3 | 1615.0 | 1576.5 | 1551.6 | 1607.0 | 1570.7 | 1731.6 | 2091.8 | 2041.0 | 1727.6 |
| 50° | 1693.3 | 1700.5 | 1716.4 | 1713.6 | 1708.2 | 1699.0 | 1699.9 | 1894.4 | 2298.5 | 2263.5 | 1908.7 |
| 52.5° | 1657.4 | 1657.2 | 1715.4 | 1786.1 | 1861.5 | 1867.0 | 1857.2 | 2066.3 | 2491.5 | 2480.9 | 2079.1 |
| 55° | 1492.8 | 1503.9 | 1592.1 | 1729.0 | 1934.9 | 2063.6 | 2093.1 | 2263.1 | 2681.3 | 2693.5 | 2252.3 |
| 57.5° | 1218.6 | 1227.8 | 1346.7 | 1537.4 | 1835.9 | 2180.5 | 2428.4 | 2549.1 | 2893.4 | 2950.8 | 2482.7 |
| 60° | 826.4 | 837.6 | 963.7 | 1192.9 | 1569.0 | 2115.4 | 2747.6 | 3059.5 | 3147.2 | 3277.6 | 2806.0 |
| 62.5° | 485.7 | 495.8 | 598.6 | 752.5 | 1104.6 | 1813.0 | 2887.7 | 3785.7 | 3550.6 | 3771.1 | 3299.2 |
| 65° | 334.3 | 341.3 | 391.2 | 468.3 | 634.8 | 1221.1 | 2714.0 | 4287.2 | 4171.1 | 4382.4 | 3871.1 |
| 67.5° | 269.0 | 268.1 | 307.8 | 360.4 | 408.6 | 629.6 | 2052.3 | 4230.4 | 4716.9 | 4805.0 | 4167.9 |
| 70° | 221.6 | 220.8 | 247.7 | 291.2 | 326.5 | 354.7 | 1117.9 | 3570.0 | 4605.7 | 4641.5 | 3894.6 |
| 72.5° | 185.4 | 186.3 | 203.5 | 235.9 | 268.0 | 267.1 | 491.3 | 2511.4 | 3623.3 | 3870.6 | 3104.6 |
| 75° | 156.5 | 156.9 | 168.3 | 191.2 | 217.5 | 215.1 | 266.3 | 1360.6 | 2106.2 | 2278.5 | 1721.0 |
| 77.5° | 133.2 | 133.7 | 140.9 | 153.7 | 172.5 | 171.5 | 194.5 | 587.9 | 878.6 | 867.9 | 588.7 |
| 80° | 118.8 | 118.8 | 122.2 | 124.5 | 134.9 | 131.1 | 144.2 | 282.3 | 371.4 | 343.0 | 234.9 |
| 82.5° | 93.2 | 93.6 | 114.7 | 113.8 | 106.3 | 101.2 | 101.2 | 166.4 | 196.8 | 181.9 | 137.5 |
| 85° | 52.5 | 52.1 | 73.9 | 89.2 | 93.6 | 71.3 | 70.6 | 93.2 | 107.2 | 94.4 | 66.7 |
| 87.5° | 22.4 | 22.8 | 34.2 | 39.6 | 53.0 | 44.3 | 43.7 | 48.1 | 54.5 | 47.3 | 30.8 |
| 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° | 608.3 | 608.3 | 608.3 | 608.3 | 608.3 | 608.3 | 608.3 | 608.3 | 608.3 | 608.3 | 608.3 |
| 2.5° | 608.5 | 602.9 | 590.6 | 575.4 | 561.5 | 552.5 | 544.3 | 532.4 | 533.1 | 524.9 | 518.9 |
| 5° | 608.1 | 596.5 | 568.0 | 534.1 | 501.7 | 478.1 | 460.4 | 444.5 | 440.6 | 433.1 | 428.5 |
| 7.5° | 608.5 | 589.6 | 541.7 | 487.6 | 447.3 | 417.5 | 402.4 | 394.0 | 392.1 | 389.5 | 389.8 |
| 10° | 609.9 | 583.3 | 512.8 | 444.0 | 401.8 | 382.1 | 378.5 | 381.2 | 384.1 | 385.0 | 385.3 |
| 12.5° | 613.5 | 577.7 | 481.1 | 405.2 | 373.3 | 367.2 | 373.5 | 382.4 | 388.2 | 391.0 | 390.9 |
| 15° | 621.2 | 573.4 | 450.7 | 374.9 | 357.5 | 360.8 | 372.4 | 385.0 | 393.4 | 397.3 | 397.5 |
| 17.5° | 629.6 | 567.1 | 419.5 | 351.5 | 345.9 | 354.1 | 368.6 | 383.2 | 393.5 | 397.9 | 398.8 |
| 20° | 640.6 | 559.4 | 386.7 | 334.1 | 335.0 | 344.2 | 357.9 | 372.4 | 383.8 | 387.6 | 389.2 |
| 22.5° | 655.0 | 550.9 | 358.1 | 319.8 | 322.4 | 329.6 | 340.2 | 352.9 | 362.7 | 364.5 | 366.0 |
| 25° | 674.4 | 541.9 | 335.2 | 307.0 | 307.9 | 312.2 | 319.3 | 326.8 | 333.7 | 331.7 | 333.2 |
| 27.5° | 700.6 | 534.1 | 318.2 | 295.2 | 293.1 | 294.0 | 297.7 | 300.0 | 303.6 | 298.3 | 299.0 |
| 30° | 731.1 | 525.7 | 305.1 | 284.8 | 279.4 | 277.8 | 278.7 | 280.0 | 282.7 | 275.5 | 274.4 |
| 32.5° | 766.8 | 515.5 | 292.7 | 275.7 | 268.1 | 265.1 | 265.5 | 269.0 | 279.8 | 275.3 | 272.8 |
| 35° | 808.0 | 504.2 | 279.8 | 265.8 | 260.6 | 256.2 | 255.8 | 266.6 | 298.7 | 295.9 | 293.7 |
| 37.5° | 856.7 | 492.7 | 266.8 | 254.6 | 254.9 | 250.3 | 248.7 | 261.0 | 302.4 | 291.4 | 290.0 |
| 40° | 918.2 | 486.7 | 255.8 | 242.7 | 248.1 | 247.5 | 244.3 | 250.6 | 278.3 | 258.3 | 255.7 |
| 42.5° | 994.6 | 487.6 | 247.7 | 230.0 | 239.8 | 246.9 | 242.1 | 242.4 | 252.2 | 237.2 | 234.7 |
| 45° | 1088.7 | 497.8 | 241.9 | 219.8 | 230.7 | 246.1 | 241.3 | 237.7 | 238.6 | 230.7 | 229.3 |
| 47.5° | 1198.7 | 518.6 | 237.7 | 211.5 | 221.8 | 243.8 | 240.9 | 236.4 | 234.5 | 230.2 | 229.2 |
| 50° | 1320.9 | 549.0 | 234.7 | 203.5 | 213.8 | 239.8 | 241.3 | 235.1 | 233.0 | 231.4 | 230.7 |
| 52.5° | 1440.9 | 583.7 | 230.2 | 196.5 | 207.6 | 235.1 | 241.9 | 233.9 | 231.6 | 230.2 | 229.5 |
| 55° | 1574.8 | 627.0 | 223.3 | 190.8 | 202.4 | 229.2 | 241.9 | 231.9 | 229.3 | 229.5 | 229.3 |
| 57.5° | 1755.6 | 697.1 | 215.1 | 185.8 | 196.2 | 221.8 | 237.7 | 229.7 | 226.6 | 226.7 | 227.0 |
| 60° | 2038.3 | 820.6 | 205.3 | 180.9 | 188.4 | 213.2 | 232.1 | 225.0 | 221.8 | 222.7 | 222.9 |
| 62.5° | 2453.8 | 1001.9 | 192.2 | 173.6 | 180.2 | 203.9 | 224.3 | 218.9 | 215.8 | 217.8 | 217.8 |
| 65° | 2885.7 | 1161.8 | 176.2 | 164.2 | 171.5 | 193.8 | 214.7 | 211.5 | 208.2 | 213.2 | 213.0 |
| 67.5° | 3002.0 | 1126.0 | 160.3 | 154.1 | 163.0 | 182.5 | 203.0 | 201.3 | 199.7 | 208.2 | 207.8 |
| 70° | 2666.8 | 904.1 | 145.7 | 143.8 | 153.5 | 170.5 | 190.5 | 190.5 | 189.5 | 195.9 | 194.5 |
| 72.5° | 2031.7 | 641.0 | 131.7 | 132.8 | 142.7 | 157.4 | 177.0 | 178.5 | 176.7 | 180.0 | 178.8 |
| 75° | 1087.7 | 366.9 | 117.7 | 120.7 | 129.4 | 144.0 | 161.9 | 163.4 | 162.4 | 162.1 | 162.8 |
| 77.5° | 361.5 | 179.3 | 103.0 | 107.7 | 115.3 | 130.2 | 146.2 | 148.5 | 146.0 | 145.4 | 145.3 |
| 80° | 161.1 | 112.7 | 86.9 | 93.2 | 99.8 | 114.4 | 129.5 | 131.5 | 128.6 | 132.6 | 127.6 |
| 82.5° | 103.5 | 74.1 | 69.6 | 76.5 | 83.1 | 98.8 | 112.9 | 113.4 | 110.9 | 128.6 | 109.8 |
| 85° | 50.2 | 46.0 | 52.5 | 58.6 | 64.1 | 77.7 | 93.6 | 93.8 | 87.2 | 79.5 | 76.7 |
| 87.5° | 25.1 | 26.7 | 34.9 | 40.6 | 43.3 | 53.2 | 68.1 | 66.8 | 64.0 | 58.2 | 53.7 |
| 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)