

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: P200629

Luminaire Tested: **GPC-AF-01-LED-E1-SL4-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-01-LED-E1-SL4-8030-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3982 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

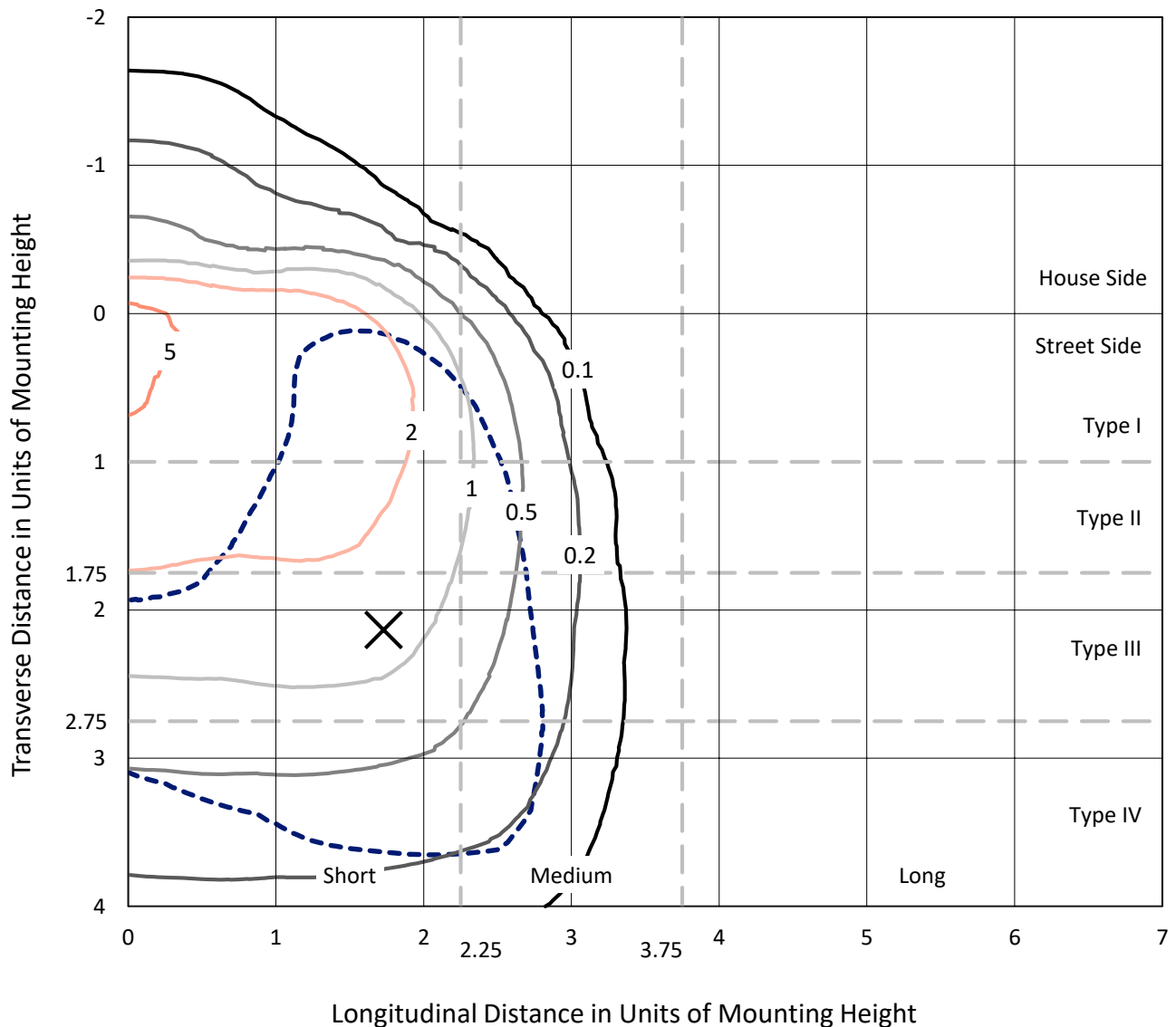
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

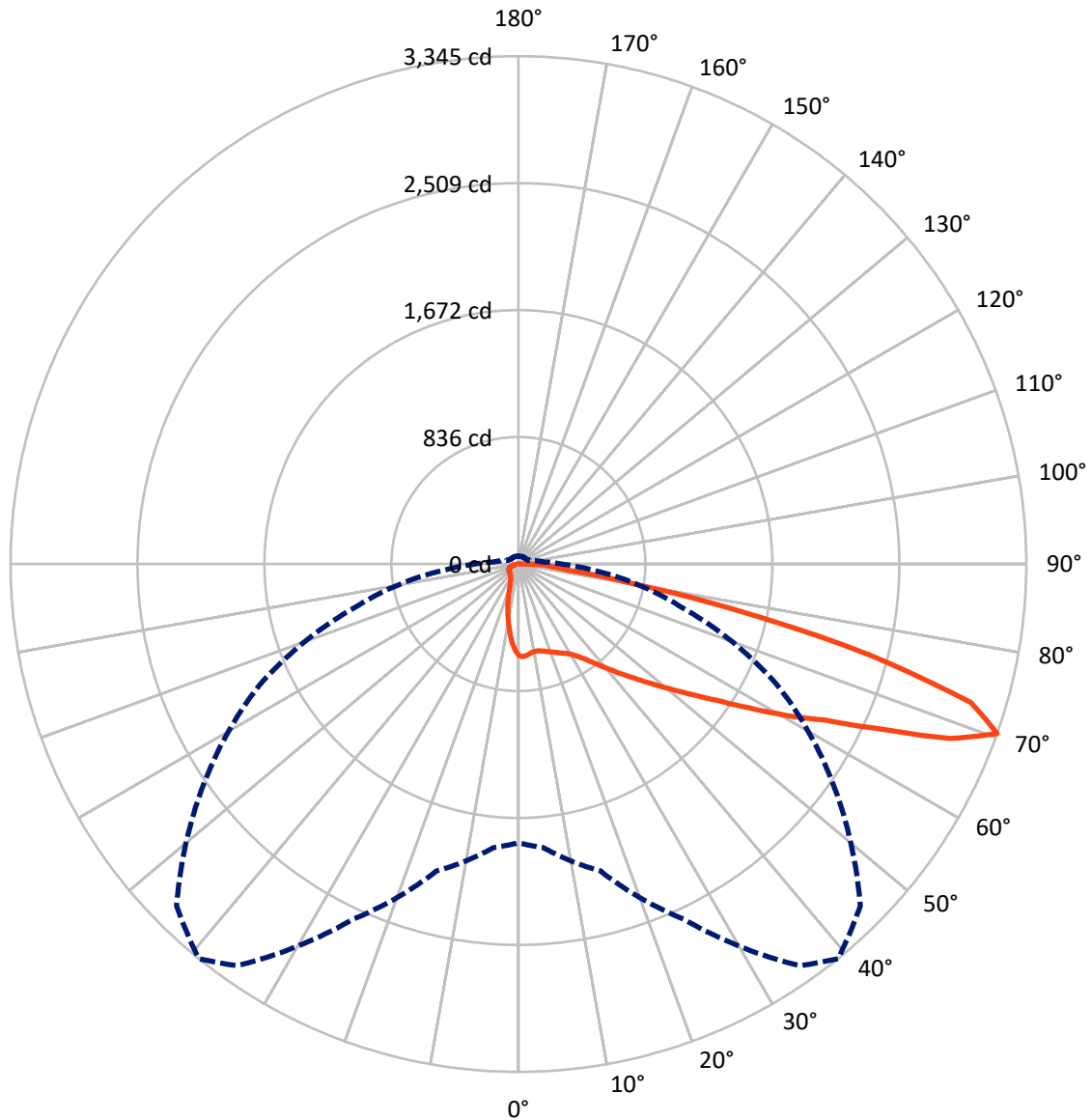
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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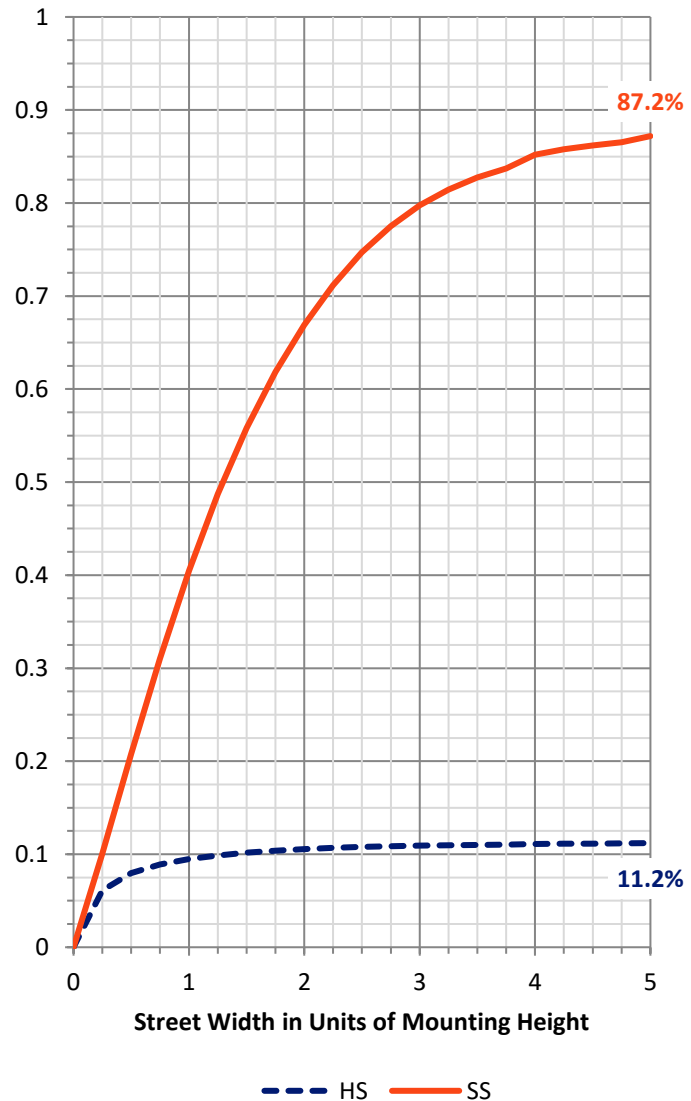
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 452.9 | 0.0 | 452.9 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 3529.1 | 0.0 | 3529.1 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 3982.0 | 0.0 | 3982.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 51.9 | 1.3 |
| 10°-20° | 129.7 | 3.3 |
| 20°-30° | 201.9 | 5.1 |
| 30°-40° | 314.5 | 7.9 |
| 40°-50° | 528.1 | 13.3 |
| 50°-60° | 838.9 | 21.1 |
| 60°-70° | 1119.0 | 28.1 |
| 70°-80° | 675.7 | 17.0 |
| 80°-90° | 122.3 | 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° | 3982.0 | 100.0 |
| 0°-180° | 3982.0 | 100.0 |



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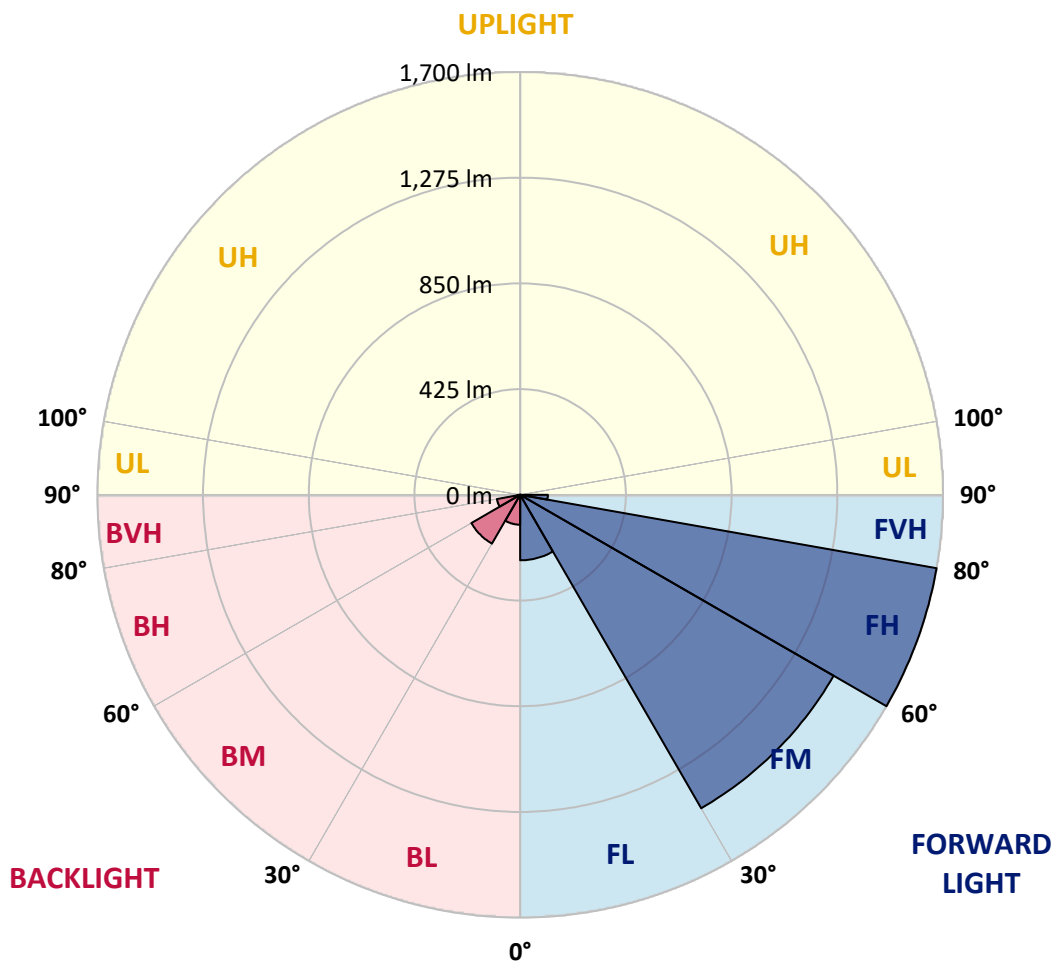
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 263.3 | 6.6 | | | |
| FM | (30°-60°) | 1454.9 | 36.5 | | | |
| FH | (60°-80°) | 1699.6 | 42.7 | | | G1/1800 |
| FVH | (80°-90°) | 111.3 | 2.8 | | | G2/225 |
| BL | (0°-30°) | 120.1 | 3.0 | B1/500 | | |
| BM | (30°-60°) | 226.6 | 5.7 | B1/1000 | | |
| BH | (60°-80°) | 95.1 | 2.4 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 11.0 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 604.5 | 604.5 | 604.5 | 604.5 | 604.5 | 604.5 | 604.5 | 604.5 | 604.5 | 604.5 | 604.5 |
| 2.5° | 616.3 | 616.1 | 614.4 | 613.2 | 612.2 | 611.8 | 612.6 | 609.6 | 607.0 | 603.7 | 600.3 |
| 5° | 611.6 | 611.4 | 608.8 | 606.4 | 603.9 | 603.1 | 602.9 | 597.4 | 594.2 | 589.3 | 582.9 |
| 7.5° | 606.6 | 605.5 | 602.1 | 598.1 | 593.8 | 591.8 | 589.8 | 582.7 | 579.0 | 574.2 | 566.7 |
| 10° | 601.3 | 600.1 | 596.8 | 592.8 | 588.7 | 585.7 | 582.3 | 575.4 | 571.5 | 567.9 | 559.2 |
| 12.5° | 595.8 | 594.8 | 594.0 | 592.2 | 589.3 | 586.7 | 584.1 | 578.2 | 574.2 | 569.9 | 559.8 |
| 15° | 595.0 | 594.6 | 596.4 | 597.6 | 596.0 | 594.4 | 591.6 | 586.5 | 582.3 | 578.0 | 564.8 |
| 17.5° | 601.5 | 601.3 | 605.9 | 609.2 | 608.4 | 605.5 | 601.7 | 596.0 | 592.6 | 588.9 | 572.5 |
| 20° | 615.7 | 616.7 | 622.3 | 626.6 | 622.5 | 618.5 | 612.2 | 604.3 | 602.5 | 600.9 | 580.4 |
| 22.5° | 642.4 | 643.4 | 647.4 | 649.1 | 638.5 | 632.7 | 624.0 | 613.8 | 612.6 | 613.8 | 590.0 |
| 25° | 684.1 | 683.1 | 682.5 | 676.4 | 657.2 | 648.1 | 636.9 | 626.4 | 627.0 | 632.5 | 603.3 |
| 27.5° | 739.4 | 733.9 | 725.4 | 707.2 | 676.6 | 666.5 | 652.9 | 643.2 | 647.0 | 657.6 | 623.4 |
| 30° | 796.7 | 790.6 | 770.9 | 741.2 | 702.1 | 691.0 | 675.8 | 664.9 | 675.0 | 691.6 | 650.1 |
| 32.5° | 849.7 | 848.9 | 820.1 | 781.9 | 737.3 | 727.6 | 712.4 | 700.1 | 716.5 | 741.8 | 690.2 |
| 35° | 907.6 | 909.4 | 875.0 | 829.1 | 784.9 | 774.8 | 763.9 | 754.5 | 776.4 | 811.2 | 748.3 |
| 37.5° | 969.6 | 973.2 | 932.5 | 880.7 | 839.2 | 834.9 | 828.4 | 824.4 | 858.2 | 906.4 | 829.5 |
| 40° | 1052.4 | 1048.7 | 992.2 | 939.0 | 905.8 | 905.6 | 903.6 | 908.4 | 964.7 | 1030.7 | 933.7 |
| 42.5° | 1141.0 | 1130.3 | 1055.6 | 1001.5 | 978.9 | 985.8 | 989.8 | 1009.6 | 1092.8 | 1181.7 | 1060.9 |
| 45° | 1236.6 | 1212.5 | 1121.4 | 1067.7 | 1060.1 | 1074.6 | 1088.4 | 1131.5 | 1243.7 | 1353.6 | 1200.2 |
| 47.5° | 1312.9 | 1289.6 | 1189.4 | 1137.2 | 1154.0 | 1176.1 | 1202.6 | 1270.8 | 1412.5 | 1531.2 | 1337.6 |
| 50° | 1373.0 | 1357.9 | 1258.1 | 1218.2 | 1257.4 | 1291.5 | 1334.8 | 1428.5 | 1588.3 | 1704.1 | 1465.0 |
| 52.5° | 1431.4 | 1420.0 | 1327.3 | 1301.2 | 1378.9 | 1425.9 | 1484.8 | 1597.8 | 1768.4 | 1874.1 | 1572.1 |
| 55° | 1484.0 | 1475.9 | 1401.8 | 1404.6 | 1521.9 | 1583.0 | 1657.1 | 1790.5 | 1964.8 | 2025.8 | 1662.8 |
| 57.5° | 1543.3 | 1533.0 | 1486.8 | 1534.4 | 1705.5 | 1784.8 | 1881.2 | 2007.1 | 2149.1 | 2160.6 | 1731.8 |
| 60° | 1603.0 | 1594.1 | 1581.2 | 1684.2 | 1938.7 | 2022.1 | 2113.4 | 2217.1 | 2335.9 | 2265.3 | 1727.7 |
| 62.5° | 1654.9 | 1655.9 | 1678.8 | 1841.5 | 2167.1 | 2263.6 | 2375.0 | 2477.4 | 2505.0 | 2283.5 | 1600.0 |
| 65° | 1742.7 | 1758.7 | 1826.9 | 2064.2 | 2488.6 | 2617.7 | 2754.4 | 2738.0 | 2551.7 | 2113.2 | 1326.1 |
| 67.5° | 1847.2 | 1875.3 | 2013.6 | 2361.0 | 2894.9 | 3066.4 | 3119.2 | 2796.9 | 2364.5 | 1717.8 | 945.3 |
| 70° | 1836.7 | 1875.3 | 2094.2 | 2582.3 | 3229.8 | 3344.8 | 3184.4 | 2531.3 | 1877.6 | 1122.2 | 502.1 |
| 72.5° | 1631.0 | 1686.2 | 1930.0 | 2480.9 | 3124.3 | 3114.2 | 2764.5 | 1887.1 | 1115.5 | 450.7 | 196.2 |
| 75° | 1243.1 | 1298.9 | 1508.7 | 1960.0 | 2469.3 | 2384.3 | 1961.6 | 1042.4 | 423.3 | 179.0 | 123.7 |
| 77.5° | 715.1 | 758.4 | 920.4 | 1202.0 | 1566.6 | 1479.3 | 1091.8 | 463.6 | 206.1 | 124.7 | 96.6 |
| 80° | 399.2 | 423.3 | 521.7 | 609.8 | 767.7 | 703.7 | 488.5 | 288.1 | 153.9 | 90.5 | 74.5 |
| 82.5° | 315.6 | 337.1 | 421.9 | 384.7 | 350.7 | 323.5 | 280.6 | 256.5 | 122.9 | 57.1 | 44.5 |
| 85° | 275.7 | 296.2 | 357.1 | 302.9 | 239.5 | 219.7 | 228.0 | 252.5 | 95.6 | 34.4 | 38.1 |
| 87.5° | 255.5 | 282.8 | 318.3 | 233.4 | 186.5 | 165.2 | 210.4 | 276.8 | 30.8 | 21.5 | 15.4 |
| 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° | 604.5 | 604.5 | 604.5 | 604.5 | 604.5 | 604.5 | 604.5 | 604.5 | 604.5 | 604.5 | 604.5 |
| 2.5° | 597.2 | 594.0 | 588.7 | 584.1 | 576.8 | 572.9 | 568.7 | 565.7 | 563.2 | 561.2 | 564.4 |
| 5° | 578.8 | 572.7 | 561.6 | 549.7 | 535.5 | 524.4 | 515.0 | 506.3 | 500.3 | 496.2 | 499.1 |
| 7.5° | 561.4 | 551.5 | 534.1 | 512.4 | 488.1 | 467.5 | 450.5 | 435.5 | 425.2 | 418.5 | 421.1 |
| 10° | 551.5 | 539.1 | 512.2 | 478.2 | 442.4 | 410.2 | 383.4 | 360.4 | 344.4 | 335.3 | 336.7 |
| 12.5° | 549.1 | 533.1 | 495.8 | 449.0 | 400.1 | 355.3 | 317.7 | 285.7 | 263.2 | 251.4 | 251.9 |
| 15° | 550.9 | 530.4 | 480.4 | 421.1 | 359.2 | 302.7 | 255.7 | 216.8 | 190.7 | 177.4 | 177.1 |
| 17.5° | 553.9 | 528.4 | 464.2 | 390.9 | 317.7 | 252.1 | 199.6 | 161.6 | 138.5 | 127.7 | 126.9 |
| 20° | 557.2 | 525.2 | 446.0 | 358.3 | 274.5 | 205.1 | 156.3 | 126.5 | 112.0 | 106.1 | 105.7 |
| 22.5° | 561.8 | 522.3 | 427.2 | 323.9 | 232.2 | 167.0 | 128.6 | 108.5 | 100.8 | 97.8 | 97.4 |
| 25° | 569.3 | 520.9 | 407.1 | 288.1 | 194.2 | 139.7 | 112.0 | 99.6 | 95.2 | 93.1 | 92.9 |
| 27.5° | 581.9 | 522.9 | 388.3 | 253.3 | 163.2 | 121.3 | 102.6 | 95.2 | 91.9 | 90.1 | 89.9 |
| 30° | 598.1 | 529.2 | 368.5 | 220.3 | 139.1 | 108.7 | 97.0 | 92.1 | 89.5 | 87.7 | 87.7 |
| 32.5° | 625.0 | 539.7 | 347.6 | 191.7 | 121.9 | 100.0 | 92.7 | 89.5 | 87.3 | 85.8 | 85.6 |
| 35° | 664.7 | 559.6 | 328.2 | 168.0 | 109.5 | 93.7 | 89.1 | 86.7 | 85.0 | 84.2 | 84.2 |
| 37.5° | 722.4 | 591.0 | 311.0 | 151.0 | 102.0 | 89.5 | 85.6 | 83.8 | 82.8 | 82.8 | 82.8 |
| 40° | 799.9 | 634.3 | 297.0 | 139.7 | 97.8 | 86.4 | 83.0 | 81.6 | 81.0 | 81.2 | 81.2 |
| 42.5° | 895.7 | 690.6 | 287.7 | 131.8 | 95.8 | 84.6 | 81.2 | 80.0 | 79.4 | 79.2 | 79.4 |
| 45° | 1004.8 | 754.5 | 286.7 | 125.9 | 93.7 | 83.4 | 80.0 | 78.8 | 77.5 | 76.7 | 76.7 |
| 47.5° | 1110.9 | 819.5 | 295.0 | 123.9 | 91.5 | 82.0 | 79.0 | 77.7 | 75.9 | 74.1 | 74.1 |
| 50° | 1204.6 | 874.8 | 306.1 | 124.7 | 90.7 | 80.0 | 77.3 | 76.7 | 73.9 | 71.9 | 71.7 |
| 52.5° | 1279.1 | 917.3 | 315.2 | 127.1 | 91.5 | 78.6 | 75.3 | 75.5 | 72.5 | 70.3 | 70.0 |
| 55° | 1338.8 | 945.3 | 312.8 | 129.6 | 93.3 | 77.7 | 73.5 | 73.9 | 71.5 | 69.2 | 69.2 |
| 57.5° | 1364.9 | 934.9 | 285.9 | 127.5 | 94.7 | 77.9 | 72.1 | 73.7 | 71.7 | 69.6 | 69.6 |
| 60° | 1308.9 | 843.2 | 235.5 | 118.6 | 92.9 | 77.3 | 71.5 | 74.5 | 74.3 | 72.3 | 72.1 |
| 62.5° | 1139.2 | 679.0 | 182.6 | 105.5 | 86.7 | 74.3 | 69.8 | 74.3 | 76.5 | 75.9 | 75.7 |
| 65° | 878.0 | 483.7 | 139.5 | 91.3 | 78.1 | 69.2 | 65.6 | 69.6 | 72.7 | 73.5 | 73.3 |
| 67.5° | 569.9 | 296.4 | 107.5 | 77.9 | 68.6 | 63.4 | 60.1 | 62.0 | 62.6 | 62.6 | 62.2 |
| 70° | 280.2 | 159.5 | 85.6 | 65.6 | 58.9 | 57.1 | 55.3 | 54.3 | 53.2 | 52.4 | 52.4 |
| 72.5° | 138.3 | 104.3 | 70.5 | 55.5 | 50.8 | 50.0 | 49.6 | 48.4 | 47.6 | 46.6 | 46.2 |
| 75° | 102.2 | 84.8 | 59.9 | 46.8 | 43.7 | 42.9 | 43.7 | 42.7 | 42.5 | 41.7 | 41.3 |
| 77.5° | 84.0 | 72.3 | 51.6 | 40.1 | 37.5 | 36.0 | 37.3 | 37.5 | 37.7 | 36.4 | 36.0 |
| 80° | 68.2 | 61.1 | 43.1 | 33.2 | 30.8 | 29.8 | 30.6 | 32.2 | 32.6 | 30.8 | 30.0 |
| 82.5° | 49.2 | 50.0 | 34.8 | 25.9 | 23.9 | 23.1 | 24.7 | 26.7 | 27.1 | 24.5 | 23.9 |
| 85° | 41.3 | 41.7 | 26.7 | 18.4 | 16.4 | 15.2 | 17.8 | 19.8 | 21.3 | 18.6 | 18.0 |
| 87.5° | 17.2 | 24.5 | 15.4 | 10.3 | 9.1 | 7.9 | 9.5 | 10.5 | 12.8 | 11.7 | 11.5 |
| 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)