

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: P200299

Luminaire Tested: **GPC-AF-01-LED-E1-SL4-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-7050-600-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3400 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 34
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

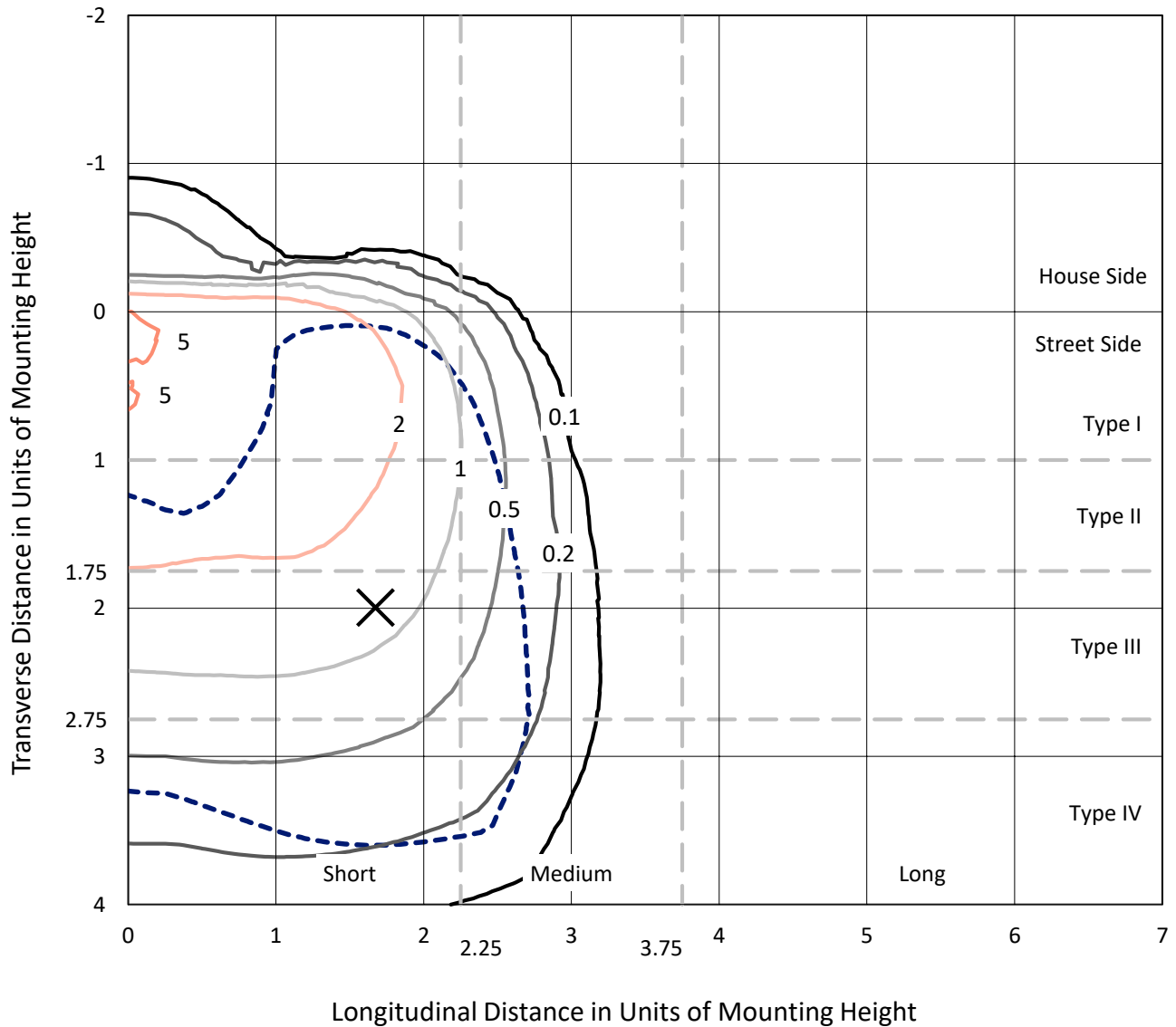


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

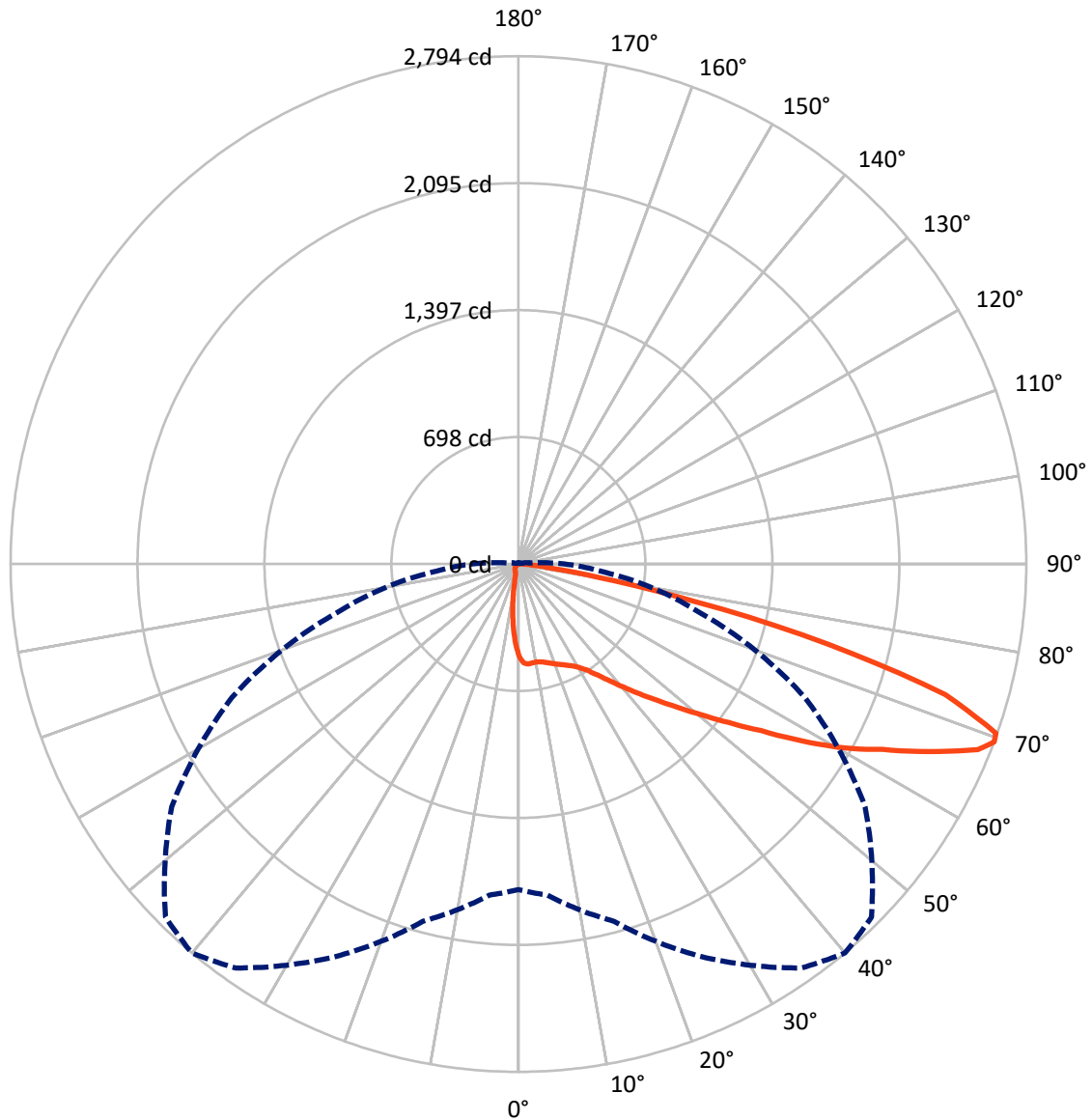


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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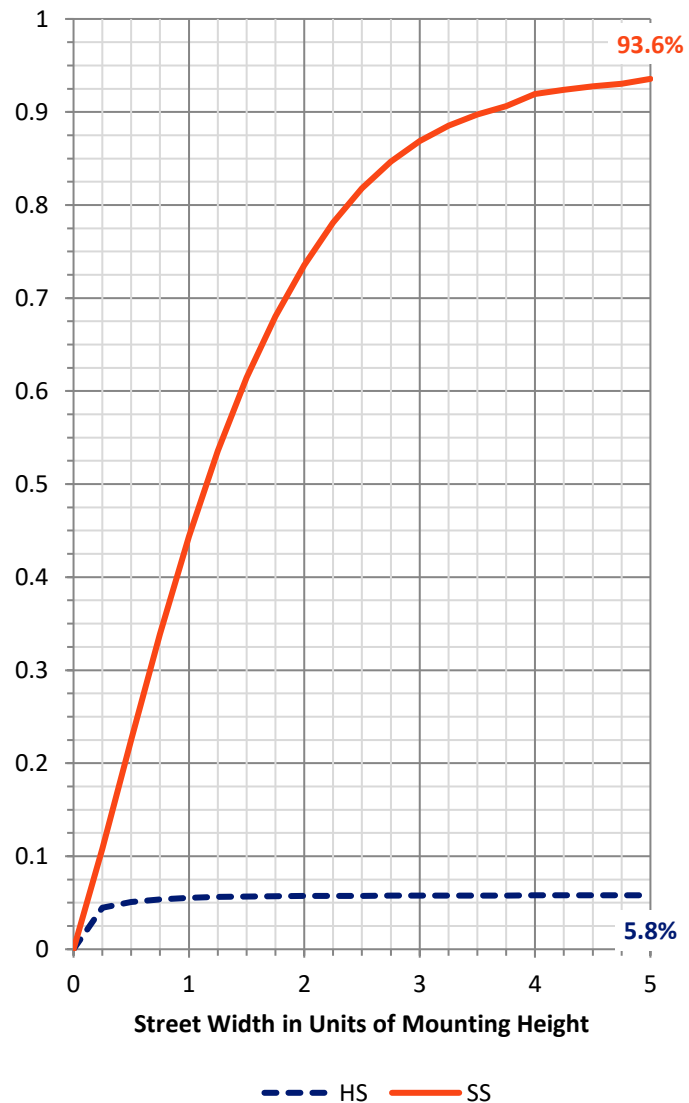
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 198.9 | 0.0 | 198.9 |
| | % Fixture | 5.9 | 0.0 | 5.9 |
| Street Side | Lumens | 3201.1 | 0.0 | 3201.1 |
| | % Fixture | 94.1 | 0.0 | 94.1 |
| Total | Lumens | 3400.0 | 0.0 | 3400.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 41.2 | 1.2 |
| 10°-20° | 101.3 | 3.0 |
| 20°-30° | 170.6 | 5.0 |
| 30°-40° | 279.3 | 8.2 |
| 40°-50° | 483.6 | 14.2 |
| 50°-60° | 761.7 | 22.4 |
| 60°-70° | 994.7 | 29.3 |
| 70°-80° | 512.3 | 15.1 |
| 80°-90° | 55.4 | 1.6 |
| 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° | 3400.0 | 100.0 |
| 0°-180° | 3400.0 | 100.0 |



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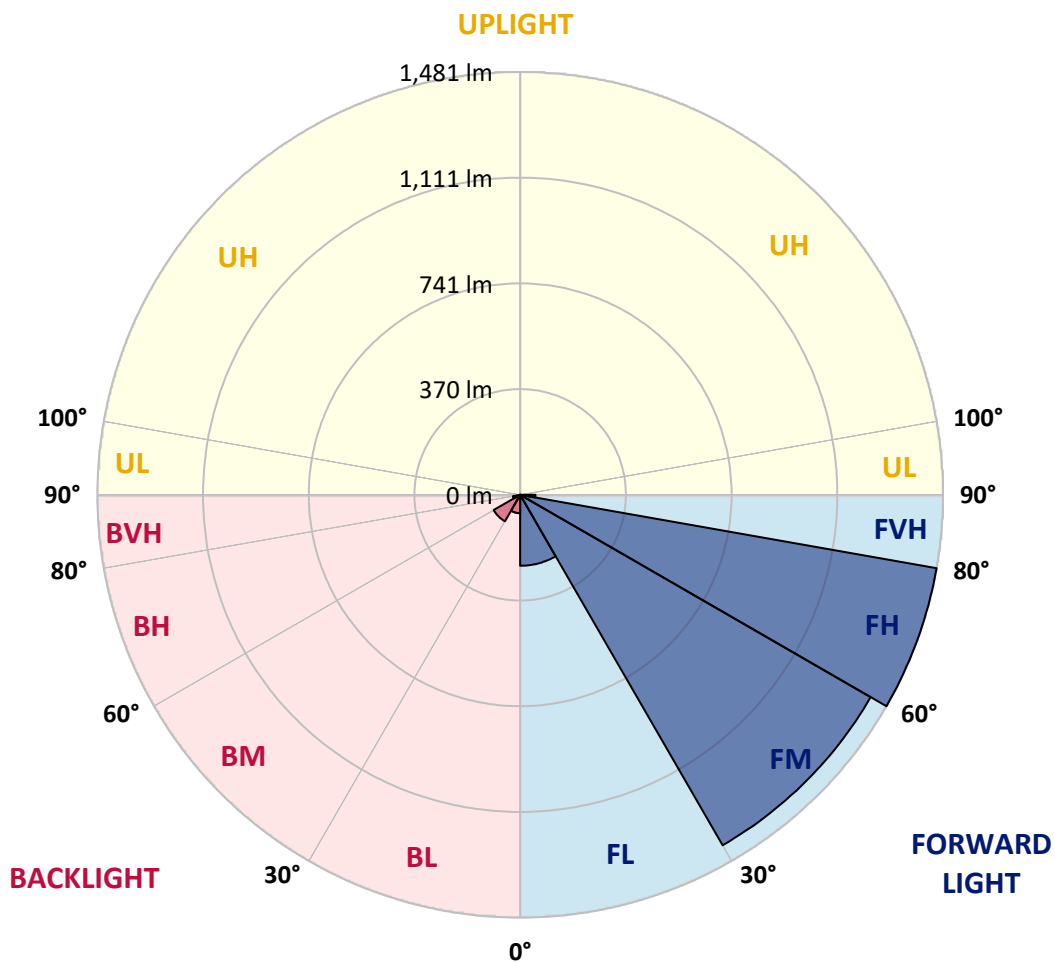
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 248.6 | 7.3 | | | |
| FM | (30°-60°) | 1417.6 | 41.7 | | | |
| FH | (60°-80°) | 1481.2 | 43.6 | | | G1/1800 |
| FVH | (80°-90°) | 53.7 | 1.6 | | | G1/100 |
| BL | (0°-30°) | 64.4 | 1.9 | B0/110 | | |
| BM | (30°-60°) | 106.9 | 3.1 | B0/220 | | |
| BH | (60°-80°) | 25.8 | 0.8 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 1.7 | 0.1 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 |
| 2.5° | 557.8 | 554.7 | 552.9 | 550.5 | 547.4 | 544.8 | 543.8 | 536.3 | 529.2 | 519.5 | 508.4 |
| 5° | 568.1 | 567.1 | 563.8 | 560.6 | 557.0 | 552.9 | 550.7 | 541.8 | 531.7 | 517.5 | 498.1 |
| 7.5° | 569.1 | 567.9 | 563.8 | 559.4 | 554.3 | 549.5 | 545.6 | 536.7 | 527.4 | 513.0 | 489.4 |
| 10° | 567.5 | 566.1 | 563.0 | 558.2 | 551.9 | 547.2 | 543.4 | 534.9 | 527.0 | 514.0 | 487.7 |
| 12.5° | 565.7 | 564.2 | 562.8 | 560.4 | 554.9 | 551.7 | 548.5 | 540.4 | 533.3 | 522.3 | 493.6 |
| 15° | 567.5 | 566.7 | 568.3 | 567.3 | 564.2 | 561.4 | 558.2 | 550.9 | 544.4 | 535.3 | 504.3 |
| 17.5° | 575.2 | 575.2 | 580.2 | 580.8 | 578.0 | 574.0 | 569.3 | 562.0 | 556.5 | 548.9 | 517.1 |
| 20° | 593.2 | 592.6 | 599.0 | 600.3 | 593.4 | 587.1 | 580.2 | 571.3 | 567.1 | 562.2 | 529.6 |
| 22.5° | 624.1 | 621.3 | 625.2 | 623.9 | 610.4 | 600.7 | 592.2 | 581.2 | 579.0 | 576.8 | 543.6 |
| 25° | 664.4 | 662.8 | 665.4 | 653.5 | 629.6 | 616.5 | 606.3 | 594.0 | 594.0 | 596.2 | 559.4 |
| 27.5° | 722.9 | 716.8 | 707.9 | 686.9 | 651.1 | 634.3 | 623.3 | 610.2 | 613.6 | 621.9 | 580.2 |
| 30° | 782.8 | 776.1 | 755.7 | 723.3 | 677.2 | 659.6 | 646.8 | 633.0 | 641.1 | 656.3 | 608.2 |
| 32.5° | 841.9 | 834.4 | 805.5 | 764.6 | 714.6 | 697.0 | 684.7 | 669.5 | 683.0 | 708.5 | 649.0 |
| 35° | 899.2 | 892.5 | 859.1 | 810.9 | 764.4 | 749.8 | 738.5 | 725.3 | 742.7 | 778.4 | 706.7 |
| 37.5° | 963.5 | 956.3 | 915.6 | 863.4 | 824.9 | 814.4 | 806.1 | 792.9 | 823.3 | 875.5 | 787.1 |
| 40° | 1042.7 | 1030.3 | 975.5 | 923.5 | 894.9 | 889.9 | 884.2 | 882.4 | 929.5 | 1001.8 | 894.1 |
| 42.5° | 1133.3 | 1113.1 | 1038.2 | 986.8 | 971.8 | 975.5 | 974.1 | 982.2 | 1062.5 | 1158.8 | 1024.5 |
| 45° | 1224.0 | 1197.9 | 1108.0 | 1054.4 | 1056.4 | 1069.2 | 1077.1 | 1109.5 | 1229.1 | 1339.0 | 1164.7 |
| 47.5° | 1300.9 | 1275.2 | 1175.0 | 1127.5 | 1151.8 | 1176.8 | 1198.3 | 1259.6 | 1400.3 | 1516.2 | 1273.8 |
| 50° | 1366.7 | 1342.4 | 1246.1 | 1207.8 | 1262.5 | 1302.9 | 1337.7 | 1428.6 | 1584.4 | 1651.2 | 1350.3 |
| 52.5° | 1420.5 | 1404.3 | 1319.7 | 1299.9 | 1388.9 | 1448.2 | 1499.2 | 1608.1 | 1747.6 | 1760.9 | 1409.8 |
| 55° | 1472.9 | 1461.4 | 1398.9 | 1409.4 | 1537.5 | 1618.2 | 1682.8 | 1798.6 | 1888.0 | 1852.4 | 1466.9 |
| 57.5° | 1533.2 | 1522.7 | 1489.1 | 1548.2 | 1732.8 | 1834.4 | 1904.8 | 1967.4 | 2011.7 | 1945.9 | 1520.7 |
| 60° | 1594.8 | 1588.7 | 1589.5 | 1702.4 | 1957.0 | 2054.6 | 2093.4 | 2109.6 | 2133.1 | 2033.9 | 1523.7 |
| 62.5° | 1653.5 | 1665.0 | 1704.3 | 1874.1 | 2171.8 | 2246.6 | 2266.3 | 2282.3 | 2254.7 | 2047.9 | 1407.8 |
| 65° | 1752.8 | 1771.6 | 1865.3 | 2103.8 | 2407.9 | 2488.1 | 2508.3 | 2453.5 | 2274.0 | 1867.4 | 1145.1 |
| 67.5° | 1801.4 | 1835.8 | 2003.0 | 2317.9 | 2637.0 | 2726.1 | 2718.6 | 2464.6 | 2040.6 | 1424.0 | 734.8 |
| 69° | 1791.3 | 1827.9 | 2034.7 | 2383.4 | 2713.1 | 2793.9 | 2746.3 | 2328.4 | 1738.5 | 1031.5 | 451.1 |
| 70° | 1751.2 | 1788.2 | 2018.4 | 2381.0 | 2722.8 | 2786.8 | 2694.9 | 2160.2 | 1469.9 | 754.3 | 282.1 |
| 72.5° | 1462.4 | 1494.4 | 1791.9 | 2152.1 | 2508.3 | 2456.3 | 2254.5 | 1496.6 | 716.2 | 205.4 | 63.5 |
| 75° | 900.2 | 918.0 | 1285.7 | 1621.3 | 1894.5 | 1760.9 | 1502.1 | 744.6 | 213.5 | 58.1 | 35.2 |
| 77.5° | 475.6 | 483.7 | 703.9 | 955.6 | 1200.9 | 993.7 | 769.9 | 290.4 | 98.4 | 36.4 | 25.5 |
| 80° | 281.1 | 287.2 | 379.1 | 436.9 | 519.7 | 434.1 | 307.8 | 178.3 | 70.4 | 22.9 | 22.7 |
| 82.5° | 160.9 | 164.7 | 274.8 | 242.9 | 204.8 | 174.9 | 153.2 | 169.0 | 42.3 | 15.4 | 23.5 |
| 85° | 59.1 | 59.9 | 154.6 | 184.8 | 121.8 | 72.5 | 76.1 | 140.0 | 11.3 | 9.7 | 18.4 |
| 87.5° | 27.5 | 26.9 | 79.5 | 113.1 | 71.2 | 45.9 | 59.3 | 30.8 | 4.5 | 6.3 | 5.1 |
| 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° | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 |
| 2.5° | 501.9 | 494.4 | 480.9 | 466.9 | 452.7 | 441.8 | 431.1 | 422.6 | 419.7 | 414.5 | 414.9 |
| 5° | 486.5 | 472.8 | 444.4 | 415.7 | 385.7 | 361.0 | 337.8 | 319.0 | 309.8 | 300.5 | 300.5 |
| 7.5° | 473.2 | 453.1 | 408.8 | 362.1 | 313.7 | 273.0 | 236.4 | 208.9 | 193.7 | 181.5 | 181.3 |
| 10° | 468.1 | 441.0 | 379.1 | 312.1 | 244.7 | 189.2 | 145.7 | 117.8 | 103.4 | 94.1 | 93.7 |
| 12.5° | 470.3 | 436.7 | 356.2 | 265.9 | 181.3 | 121.6 | 84.4 | 66.4 | 60.3 | 57.5 | 57.5 |
| 15° | 476.8 | 435.5 | 333.3 | 220.8 | 128.1 | 76.1 | 56.1 | 51.2 | 50.8 | 50.8 | 50.8 |
| 17.5° | 484.7 | 435.9 | 309.8 | 176.9 | 87.2 | 54.4 | 48.4 | 47.8 | 48.2 | 48.2 | 48.2 |
| 20° | 492.8 | 436.1 | 284.5 | 136.2 | 61.5 | 47.4 | 45.5 | 45.3 | 45.7 | 45.7 | 45.9 |
| 22.5° | 502.7 | 437.1 | 259.3 | 101.8 | 50.8 | 44.7 | 43.3 | 43.3 | 43.5 | 43.5 | 43.3 |
| 25° | 514.0 | 439.2 | 232.9 | 75.5 | 46.3 | 42.9 | 41.7 | 41.5 | 41.7 | 41.5 | 41.3 |
| 27.5° | 528.2 | 442.0 | 203.6 | 59.1 | 44.3 | 41.1 | 40.1 | 40.1 | 39.9 | 39.7 | 39.5 |
| 30° | 546.0 | 445.2 | 170.6 | 50.2 | 42.3 | 39.5 | 38.5 | 38.3 | 38.0 | 37.6 | 37.6 |
| 32.5° | 573.1 | 452.3 | 138.0 | 45.5 | 40.1 | 37.2 | 36.4 | 36.4 | 36.0 | 35.6 | 35.4 |
| 35° | 614.8 | 466.3 | 108.9 | 42.7 | 37.6 | 34.8 | 33.8 | 33.8 | 33.4 | 33.2 | 33.0 |
| 37.5° | 672.5 | 487.5 | 84.6 | 40.1 | 35.2 | 32.2 | 31.2 | 31.0 | 30.6 | 30.2 | 30.0 |
| 40° | 749.2 | 513.8 | 66.6 | 37.6 | 32.8 | 29.5 | 28.7 | 28.3 | 27.5 | 26.9 | 26.9 |
| 42.5° | 845.5 | 543.8 | 54.0 | 35.0 | 30.0 | 27.1 | 26.5 | 25.9 | 24.5 | 23.9 | 23.7 |
| 45° | 946.3 | 570.7 | 45.7 | 32.0 | 27.1 | 24.7 | 24.3 | 23.3 | 21.5 | 20.8 | 20.8 |
| 47.5° | 1019.0 | 577.0 | 40.3 | 29.1 | 24.5 | 22.1 | 21.9 | 20.0 | 18.4 | 18.0 | 17.8 |
| 50° | 1064.3 | 564.6 | 35.8 | 26.3 | 22.1 | 19.6 | 19.0 | 16.8 | 15.8 | 15.4 | 15.2 |
| 52.5° | 1094.9 | 542.6 | 32.2 | 23.9 | 19.8 | 17.4 | 16.0 | 14.4 | 13.6 | 13.2 | 13.2 |
| 55° | 1119.4 | 511.4 | 28.5 | 21.7 | 18.0 | 15.6 | 13.6 | 12.3 | 11.5 | 11.1 | 11.1 |
| 57.5° | 1126.3 | 469.1 | 24.9 | 19.8 | 16.2 | 13.8 | 11.5 | 10.7 | 9.7 | 9.5 | 9.5 |
| 60° | 1076.3 | 392.8 | 22.1 | 17.6 | 14.6 | 11.9 | 10.1 | 9.1 | 8.1 | 7.9 | 7.7 |
| 62.5° | 944.5 | 304.0 | 19.4 | 15.6 | 12.8 | 10.3 | 8.7 | 7.5 | 6.7 | 6.7 | 6.7 |
| 65° | 720.5 | 203.8 | 17.0 | 13.6 | 11.1 | 8.7 | 7.5 | 6.1 | 5.7 | 5.7 | 5.9 |
| 67.5° | 431.3 | 110.9 | 14.6 | 11.5 | 9.5 | 7.3 | 6.3 | 5.3 | 5.1 | 5.3 | 5.3 |
| 69° | 252.8 | 65.2 | 13.2 | 10.3 | 8.3 | 6.5 | 5.5 | 4.7 | 5.1 | 5.3 | 5.3 |
| 70° | 156.0 | 43.9 | 12.1 | 9.3 | 7.5 | 5.9 | 5.1 | 4.5 | 4.9 | 5.1 | 5.1 |
| 72.5° | 43.5 | 22.7 | 9.7 | 7.3 | 6.1 | 4.9 | 4.0 | 4.0 | 4.7 | 4.9 | 4.9 |
| 75° | 28.3 | 16.8 | 7.5 | 5.5 | 4.7 | 3.8 | 3.4 | 3.8 | 4.5 | 4.7 | 4.7 |
| 77.5° | 23.5 | 13.8 | 6.1 | 4.5 | 3.8 | 3.6 | 3.2 | 3.4 | 4.0 | 4.3 | 4.3 |
| 80° | 21.5 | 9.7 | 4.9 | 4.0 | 3.4 | 3.2 | 3.0 | 2.8 | 3.6 | 3.8 | 3.8 |
| 82.5° | 20.4 | 7.7 | 4.3 | 3.6 | 3.2 | 2.8 | 2.6 | 2.8 | 3.2 | 3.4 | 3.6 |
| 85° | 12.8 | 5.1 | 3.8 | 3.4 | 2.8 | 2.6 | 2.6 | 2.6 | 3.0 | 3.2 | 3.2 |
| 87.5° | 4.7 | 4.0 | 3.4 | 2.8 | 2.4 | 2.4 | 2.4 | 2.4 | 2.6 | 3.0 | 3.0 |
| 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)