

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: P199947

Luminaire Tested: **GPC-AF-01-LED-E1-SL2-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7030-600-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3355.3 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - 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

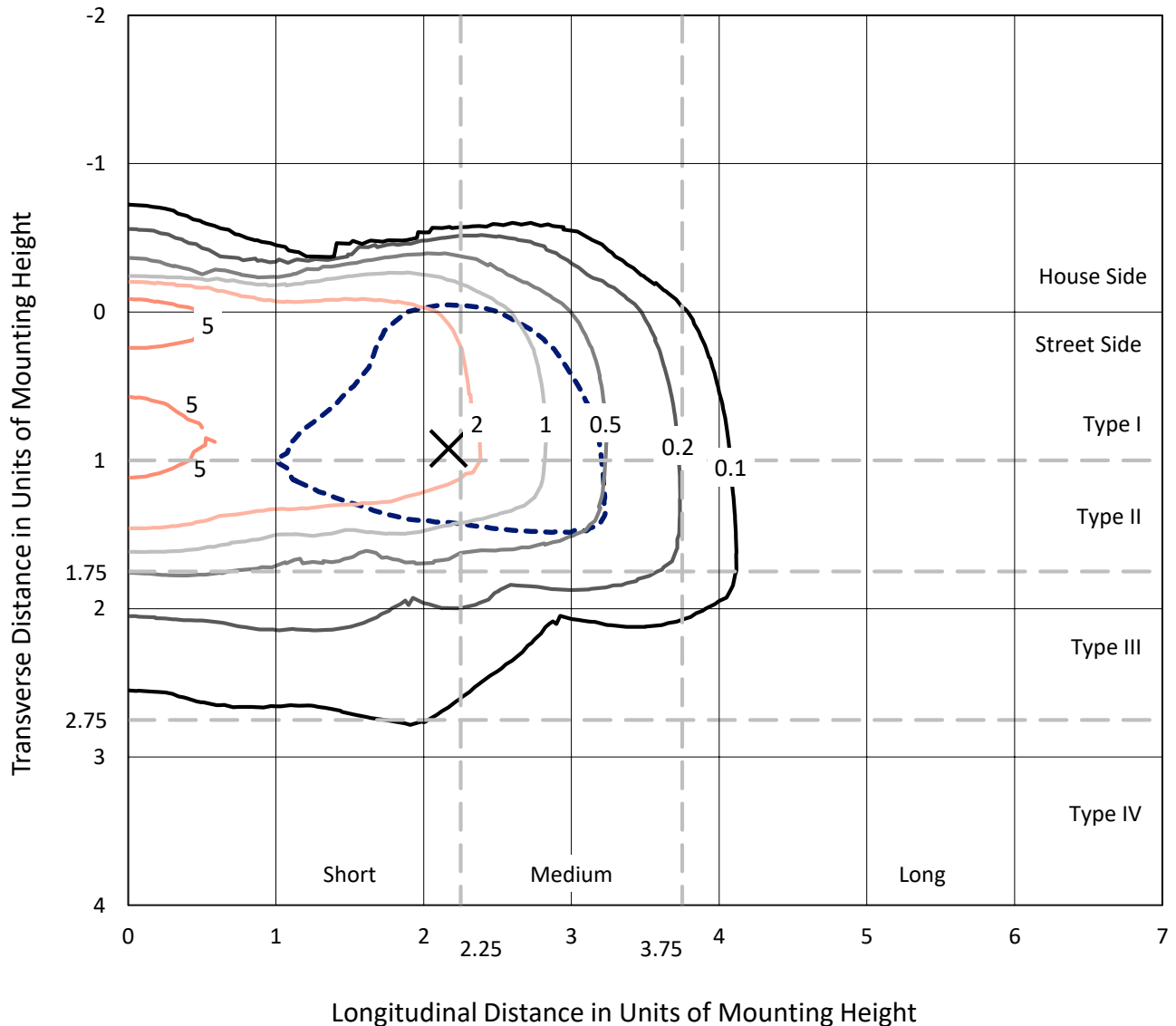


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Iso-Footcandle Lines of Horizontal Illumination

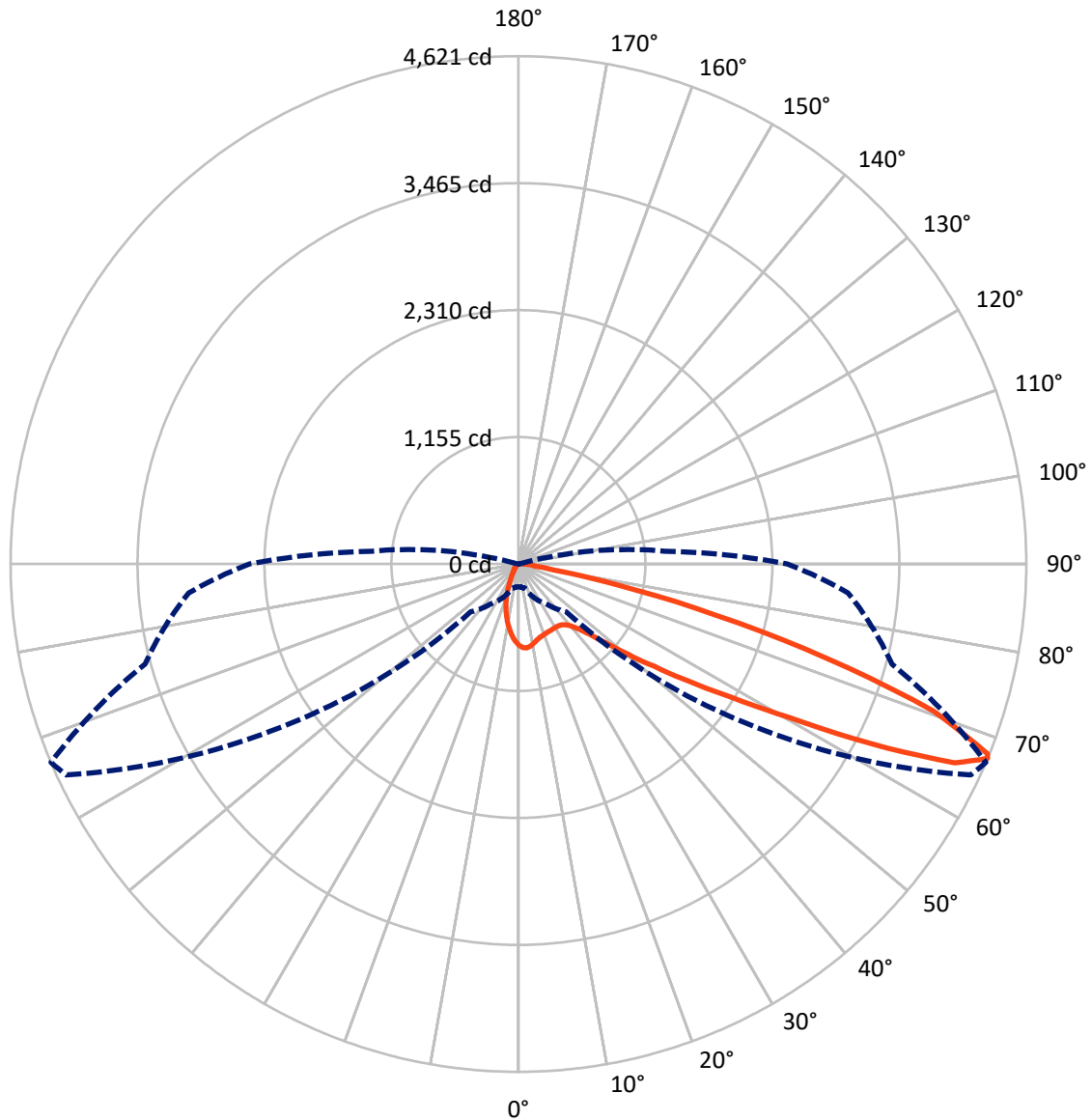
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 348.4 | 0.0 | 348.4 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 3007.0 | 0.0 | 3007.0 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 3355.3 | 0.0 | 3355.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 60.2 | 1.8 |
| 10°-20° | 128.2 | 3.8 |
| 20°-30° | 186.3 | 5.6 |
| 30°-40° | 290.7 | 8.7 |
| 40°-50° | 514.9 | 15.3 |
| 50°-60° | 814.8 | 24.3 |
| 60°-70° | 933.2 | 27.8 |
| 70°-80° | 387.1 | 11.5 |
| 80°-90° | 40.0 | 1.2 |
| 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° | 3355.3 | 100.0 |
| 0°-180° | 3355.3 | 100.0 |



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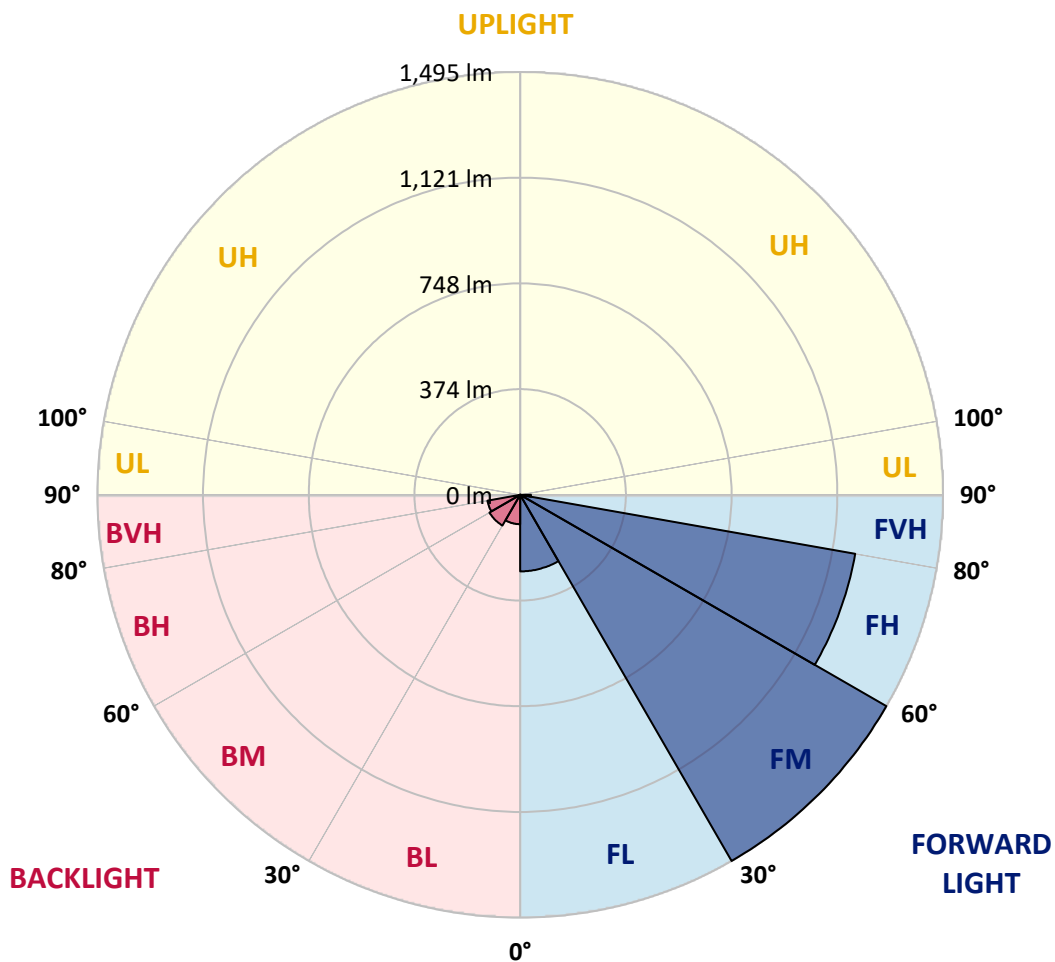
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 270.7 | 8.1 | | | |
| FM (30°-60°) | 1495.2 | 44.6 | | | |
| FH (60°-80°) | 1202.9 | 35.9 | | | G1/1800 |
| FVH (80°-90°) | 38.2 | 1.1 | | | G1/100 |
| BL (0°-30°) | 104.0 | 3.1 | B0/110 | | |
| BM (30°-60°) | 125.2 | 3.7 | B0/220 | | |
| BH (60°-80°) | 117.4 | 3.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.8 | 0.1 | | | G0/10 |
| 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 |
| 2.5° | 765.1 | 766.6 | 766.5 | 767.5 | 770.3 | 770.5 | 767.8 | 762.5 | 761.3 | 754.4 | 742.5 |
| 5° | 705.5 | 710.0 | 712.8 | 724.0 | 736.4 | 751.4 | 762.8 | 767.0 | 766.5 | 761.5 | 743.5 |
| 7.5° | 637.6 | 642.1 | 645.2 | 658.4 | 675.0 | 700.8 | 730.4 | 754.7 | 756.8 | 762.1 | 742.8 |
| 10° | 592.4 | 593.2 | 597.5 | 610.0 | 627.4 | 653.9 | 689.1 | 731.6 | 738.0 | 757.3 | 740.8 |
| 12.5° | 555.2 | 555.8 | 561.5 | 575.0 | 593.6 | 620.1 | 657.2 | 706.4 | 716.3 | 751.4 | 740.3 |
| 15° | 528.9 | 531.0 | 536.0 | 550.1 | 569.9 | 596.3 | 634.2 | 687.7 | 699.7 | 749.4 | 743.9 |
| 17.5° | 520.0 | 522.4 | 523.9 | 534.1 | 552.1 | 578.0 | 616.9 | 675.6 | 689.1 | 750.5 | 750.7 |
| 20° | 529.3 | 531.0 | 527.4 | 530.0 | 541.2 | 564.3 | 602.2 | 665.2 | 681.2 | 751.9 | 759.6 |
| 22.5° | 563.4 | 564.3 | 554.6 | 543.4 | 541.5 | 554.3 | 590.6 | 656.9 | 674.2 | 755.6 | 769.9 |
| 25° | 622.1 | 620.8 | 605.2 | 581.0 | 558.4 | 552.6 | 583.8 | 651.9 | 670.8 | 759.6 | 780.6 |
| 27.5° | 693.0 | 695.0 | 673.5 | 638.4 | 595.1 | 564.3 | 582.8 | 649.8 | 669.1 | 762.3 | 790.1 |
| 30° | 779.1 | 781.9 | 757.1 | 713.1 | 651.0 | 593.2 | 591.8 | 649.3 | 668.1 | 760.6 | 790.8 |
| 32.5° | 867.0 | 870.4 | 850.9 | 805.6 | 725.9 | 641.7 | 612.2 | 653.7 | 670.1 | 754.4 | 786.3 |
| 35° | 959.0 | 963.6 | 950.8 | 911.8 | 827.3 | 711.9 | 648.0 | 666.8 | 679.3 | 753.9 | 781.9 |
| 37.5° | 1086.0 | 1090.3 | 1066.1 | 1024.8 | 950.0 | 805.8 | 705.5 | 691.4 | 701.0 | 763.2 | 783.1 |
| 40° | 1275.6 | 1275.0 | 1212.4 | 1149.2 | 1084.8 | 925.1 | 786.3 | 736.1 | 741.0 | 791.7 | 797.5 |
| 42.5° | 1482.3 | 1481.3 | 1388.8 | 1292.6 | 1234.5 | 1072.1 | 892.6 | 813.2 | 809.8 | 843.9 | 835.1 |
| 45° | 1641.6 | 1641.4 | 1565.9 | 1457.6 | 1414.8 | 1240.7 | 1030.0 | 920.4 | 915.4 | 928.8 | 904.3 |
| 47.5° | 1709.6 | 1710.7 | 1672.8 | 1596.6 | 1614.7 | 1469.0 | 1203.3 | 1075.7 | 1068.2 | 1062.6 | 1025.5 |
| 50° | 1656.7 | 1659.0 | 1662.2 | 1647.3 | 1761.2 | 1775.7 | 1435.5 | 1294.8 | 1291.1 | 1266.7 | 1208.5 |
| 52.5° | 1484.1 | 1496.0 | 1532.8 | 1580.0 | 1812.1 | 2070.0 | 1799.7 | 1566.9 | 1546.9 | 1520.9 | 1456.9 |
| 55° | 1193.2 | 1206.3 | 1276.2 | 1390.8 | 1736.3 | 2263.5 | 2310.2 | 1917.6 | 1884.2 | 1806.6 | 1714.2 |
| 57.5° | 789.7 | 810.0 | 911.4 | 1057.1 | 1516.4 | 2294.6 | 2819.4 | 2404.2 | 2288.4 | 2075.7 | 1971.6 |
| 60° | 435.1 | 454.6 | 564.7 | 696.5 | 1095.3 | 2140.7 | 3161.9 | 3038.0 | 2833.3 | 2376.5 | 2284.2 |
| 62.5° | 267.9 | 278.5 | 359.7 | 482.4 | 656.7 | 1689.5 | 3232.8 | 3834.4 | 3597.4 | 2763.8 | 2661.7 |
| 65° | 213.3 | 217.9 | 257.6 | 394.3 | 470.9 | 1004.9 | 3004.0 | 4441.4 | 4362.4 | 3232.8 | 2999.6 |
| 67° | 207.0 | 208.8 | 227.6 | 338.6 | 443.9 | 616.1 | 2516.7 | 4540.3 | 4620.5 | 3516.5 | 3010.2 |
| 67.5° | 208.4 | 210.5 | 228.3 | 323.1 | 443.0 | 566.2 | 2348.7 | 4501.4 | 4602.6 | 3539.0 | 2963.4 |
| 70° | 201.0 | 207.0 | 261.2 | 323.0 | 421.4 | 470.5 | 1406.6 | 3900.1 | 4005.6 | 3288.2 | 2514.5 |
| 72.5° | 71.2 | 71.7 | 113.0 | 261.2 | 458.2 | 475.6 | 706.4 | 2859.1 | 2937.2 | 2515.4 | 1812.8 |
| 75° | 42.3 | 36.0 | 37.5 | 74.4 | 437.8 | 461.8 | 407.4 | 1827.0 | 1856.1 | 1441.4 | 918.1 |
| 77.5° | 29.2 | 25.4 | 26.2 | 32.9 | 166.7 | 455.4 | 323.7 | 952.7 | 921.6 | 505.6 | 195.5 |
| 80° | 16.6 | 14.6 | 15.7 | 28.7 | 60.6 | 424.9 | 305.3 | 386.3 | 329.4 | 85.8 | 54.0 |
| 82.5° | 8.8 | 7.4 | 9.0 | 23.7 | 42.3 | 264.9 | 305.9 | 186.8 | 147.9 | 29.0 | 36.8 |
| 85° | 3.2 | 2.5 | 4.3 | 16.3 | 28.2 | 81.2 | 283.6 | 157.0 | 123.3 | 14.1 | 28.0 |
| 87.5° | 0.5 | 0.5 | 1.7 | 6.7 | 11.4 | 24.8 | 167.7 | 93.2 | 62.4 | 8.4 | 19.2 |
| 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° | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 |
| 2.5° | 737.6 | 729.2 | 717.9 | 703.9 | 687.6 | 673.0 | 662.3 | 651.0 | 648.8 | 644.8 | 644.3 |
| 5° | 732.7 | 718.3 | 690.1 | 657.7 | 623.4 | 592.1 | 566.9 | 544.4 | 534.5 | 525.9 | 524.9 |
| 7.5° | 725.5 | 703.7 | 655.8 | 603.7 | 549.9 | 501.1 | 459.6 | 430.2 | 403.1 | 390.3 | 388.3 |
| 10° | 717.1 | 685.9 | 617.4 | 545.1 | 470.7 | 401.6 | 339.9 | 288.3 | 257.0 | 238.4 | 236.0 |
| 12.5° | 709.2 | 668.5 | 578.0 | 484.2 | 385.3 | 293.0 | 213.7 | 164.4 | 131.5 | 118.2 | 116.7 |
| 15° | 705.5 | 654.5 | 541.2 | 422.0 | 296.1 | 186.5 | 116.8 | 90.4 | 79.6 | 76.5 | 76.4 |
| 17.5° | 705.2 | 642.6 | 505.1 | 357.6 | 207.5 | 108.3 | 76.2 | 69.5 | 67.3 | 66.5 | 66.5 |
| 20° | 704.9 | 631.2 | 469.2 | 290.8 | 131.7 | 72.2 | 63.4 | 61.8 | 60.3 | 59.3 | 59.3 |
| 22.5° | 707.1 | 621.0 | 431.6 | 222.7 | 82.9 | 58.6 | 55.8 | 54.2 | 52.2 | 51.0 | 50.7 |
| 25° | 709.2 | 613.2 | 393.3 | 158.5 | 60.1 | 51.0 | 48.2 | 46.0 | 43.2 | 41.5 | 41.3 |
| 27.5° | 709.6 | 603.3 | 352.1 | 106.1 | 50.3 | 44.5 | 40.9 | 37.5 | 34.4 | 32.7 | 32.4 |
| 30° | 703.7 | 586.9 | 306.5 | 71.7 | 44.5 | 38.6 | 33.9 | 30.4 | 27.5 | 26.0 | 26.0 |
| 32.5° | 692.2 | 566.6 | 256.4 | 54.0 | 39.6 | 33.1 | 28.0 | 24.7 | 22.7 | 22.1 | 22.0 |
| 35° | 681.9 | 544.6 | 204.9 | 45.8 | 35.4 | 28.0 | 23.0 | 20.8 | 19.5 | 19.3 | 19.2 |
| 37.5° | 675.8 | 527.0 | 156.6 | 41.5 | 31.4 | 23.5 | 19.3 | 17.8 | 17.3 | 16.8 | 17.1 |
| 40° | 680.4 | 512.3 | 115.7 | 38.0 | 27.7 | 19.5 | 16.4 | 15.7 | 15.1 | 14.9 | 14.9 |
| 42.5° | 701.0 | 509.8 | 85.9 | 34.9 | 23.9 | 16.3 | 14.3 | 13.6 | 13.3 | 13.1 | 13.3 |
| 45° | 755.1 | 525.4 | 66.7 | 31.9 | 20.1 | 13.6 | 12.1 | 11.9 | 11.7 | 11.7 | 11.7 |
| 47.5° | 836.3 | 557.8 | 55.6 | 28.6 | 16.8 | 11.7 | 10.6 | 10.4 | 10.2 | 10.4 | 10.4 |
| 50° | 973.8 | 616.9 | 49.7 | 25.2 | 13.8 | 10.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.2 |
| 52.5° | 1183.1 | 733.1 | 45.8 | 22.0 | 11.4 | 8.4 | 7.6 | 7.6 | 7.8 | 7.8 | 7.9 |
| 55° | 1416.1 | 887.3 | 42.3 | 18.6 | 9.7 | 7.0 | 6.2 | 6.4 | 6.7 | 6.9 | 6.9 |
| 57.5° | 1669.1 | 1058.1 | 39.4 | 15.3 | 8.2 | 5.7 | 5.3 | 5.5 | 5.7 | 6.1 | 6.1 |
| 60° | 1974.1 | 1243.2 | 35.1 | 11.9 | 6.9 | 4.5 | 4.2 | 4.5 | 5.1 | 5.5 | 5.7 |
| 62.5° | 2309.2 | 1422.0 | 29.5 | 9.4 | 5.7 | 3.5 | 3.3 | 4.2 | 4.9 | 5.3 | 5.5 |
| 65° | 2538.2 | 1478.2 | 22.7 | 7.6 | 4.3 | 2.5 | 2.7 | 3.8 | 4.7 | 5.3 | 5.3 |
| 67° | 2445.4 | 1340.2 | 18.6 | 6.4 | 3.5 | 1.9 | 2.5 | 3.8 | 4.7 | 5.1 | 5.3 |
| 67.5° | 2381.0 | 1286.2 | 17.8 | 6.2 | 3.3 | 1.9 | 2.5 | 3.8 | 4.7 | 5.3 | 5.3 |
| 70° | 1937.3 | 966.2 | 14.9 | 4.7 | 2.7 | 1.7 | 2.1 | 3.5 | 4.5 | 5.1 | 5.1 |
| 72.5° | 1346.1 | 595.8 | 13.3 | 3.3 | 2.3 | 1.5 | 1.9 | 3.3 | 4.3 | 4.9 | 5.1 |
| 75° | 639.9 | 215.7 | 11.4 | 2.5 | 2.1 | 1.4 | 1.7 | 3.3 | 4.3 | 4.9 | 4.9 |
| 77.5° | 130.6 | 50.1 | 9.2 | 2.1 | 1.7 | 1.4 | 1.5 | 3.2 | 4.2 | 4.7 | 4.7 |
| 80° | 42.8 | 19.3 | 6.9 | 1.9 | 1.7 | 1.4 | 1.5 | 2.9 | 4.2 | 4.5 | 4.7 |
| 82.5° | 30.9 | 9.9 | 4.5 | 1.9 | 1.7 | 1.4 | 1.4 | 2.9 | 4.0 | 4.5 | 4.5 |
| 85° | 23.7 | 6.9 | 2.9 | 1.9 | 1.7 | 1.4 | 1.4 | 2.7 | 3.8 | 4.3 | 4.3 |
| 87.5° | 15.7 | 2.7 | 2.3 | 1.9 | 1.7 | 1.4 | 1.4 | 2.7 | 3.5 | 4.2 | 4.3 |
| 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)