

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: P199963

Luminaire Tested: **GPC-AF-01-LED-E1-SL3-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7030-600-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3460.2 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-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

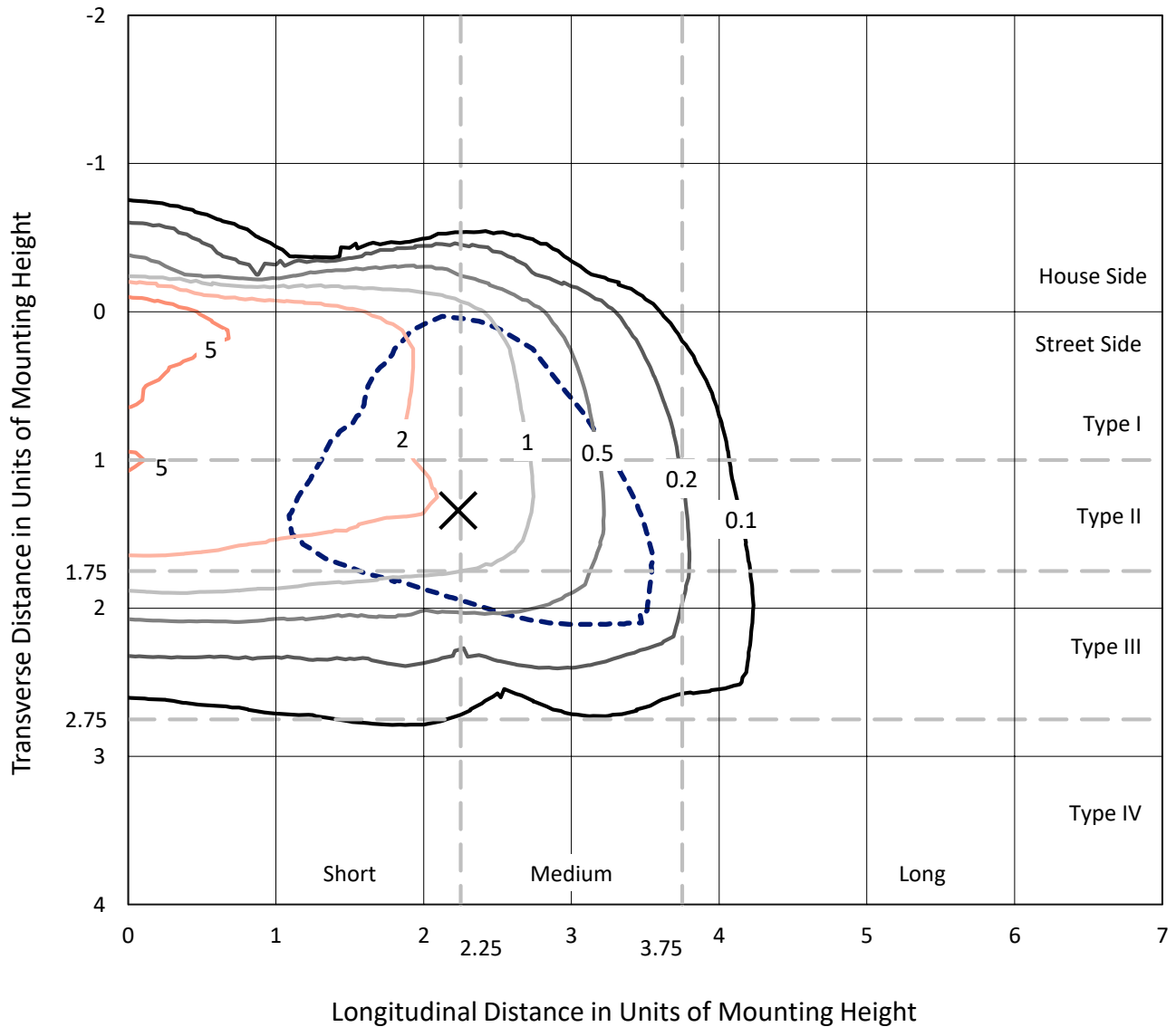


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Iso-Footcandle Lines of Horizontal Illumination

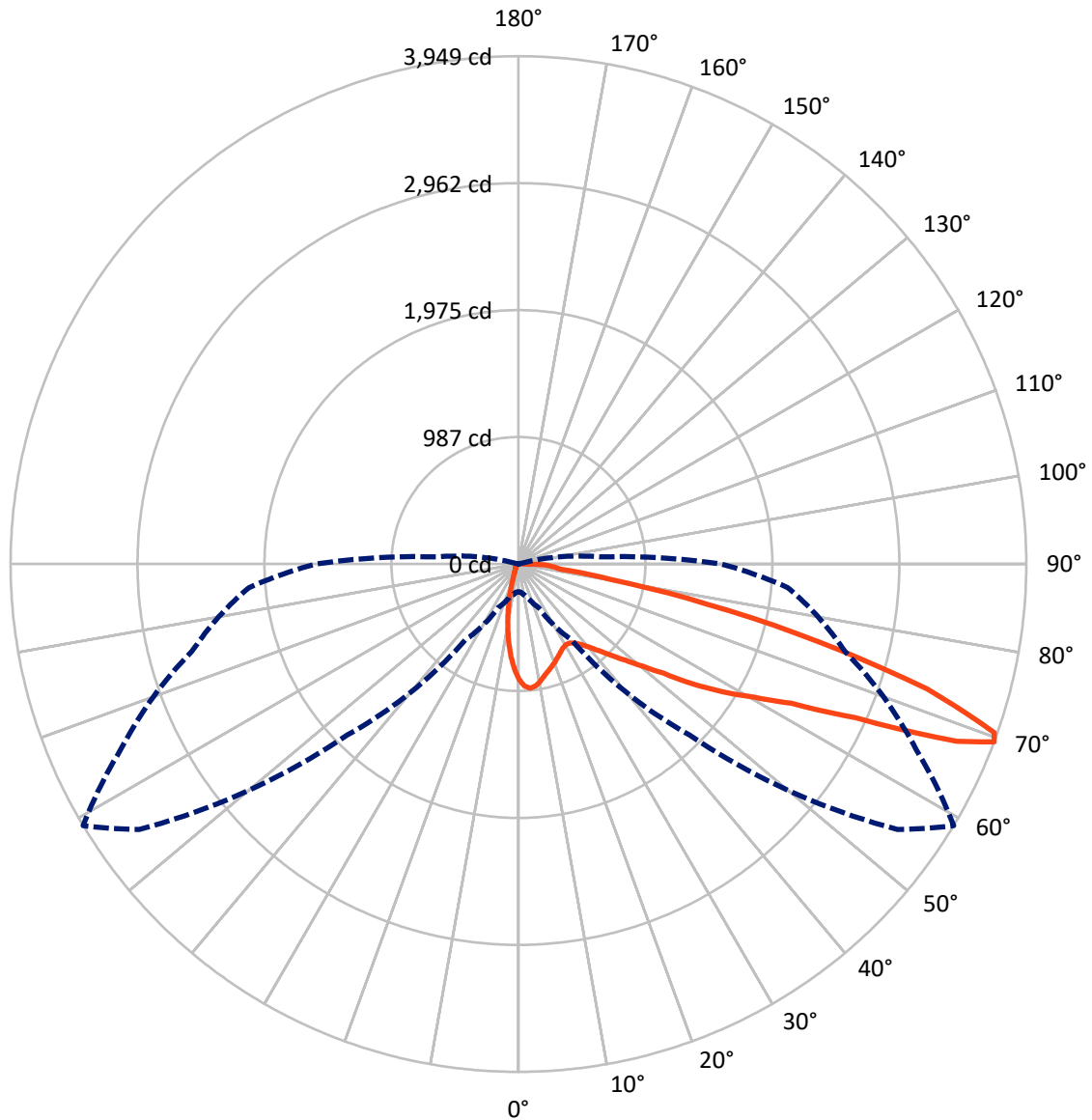
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 281.8 | 0.0 | 281.8 |
| | % Fixture | 8.1 | 0.0 | 8.1 |
| Street Side | Lumens | 3178.4 | 0.0 | 3178.4 |
| | % Fixture | 91.9 | 0.0 | 91.9 |
| Total | Lumens | 3460.2 | 0.0 | 3460.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.1 | 2.1 |
| 10°-20° | 151.1 | 4.4 |
| 20°-30° | 203.3 | 5.9 |
| 30°-40° | 295.1 | 8.5 |
| 40°-50° | 491.4 | 14.2 |
| 50°-60° | 766.6 | 22.2 |
| 60°-70° | 948.6 | 27.4 |
| 70°-80° | 480.7 | 13.9 |
| 80°-90° | 50.3 | 1.5 |
| 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° | 3460.2 | 100.0 |
| 0°-180° | 3460.2 | 100.0 |



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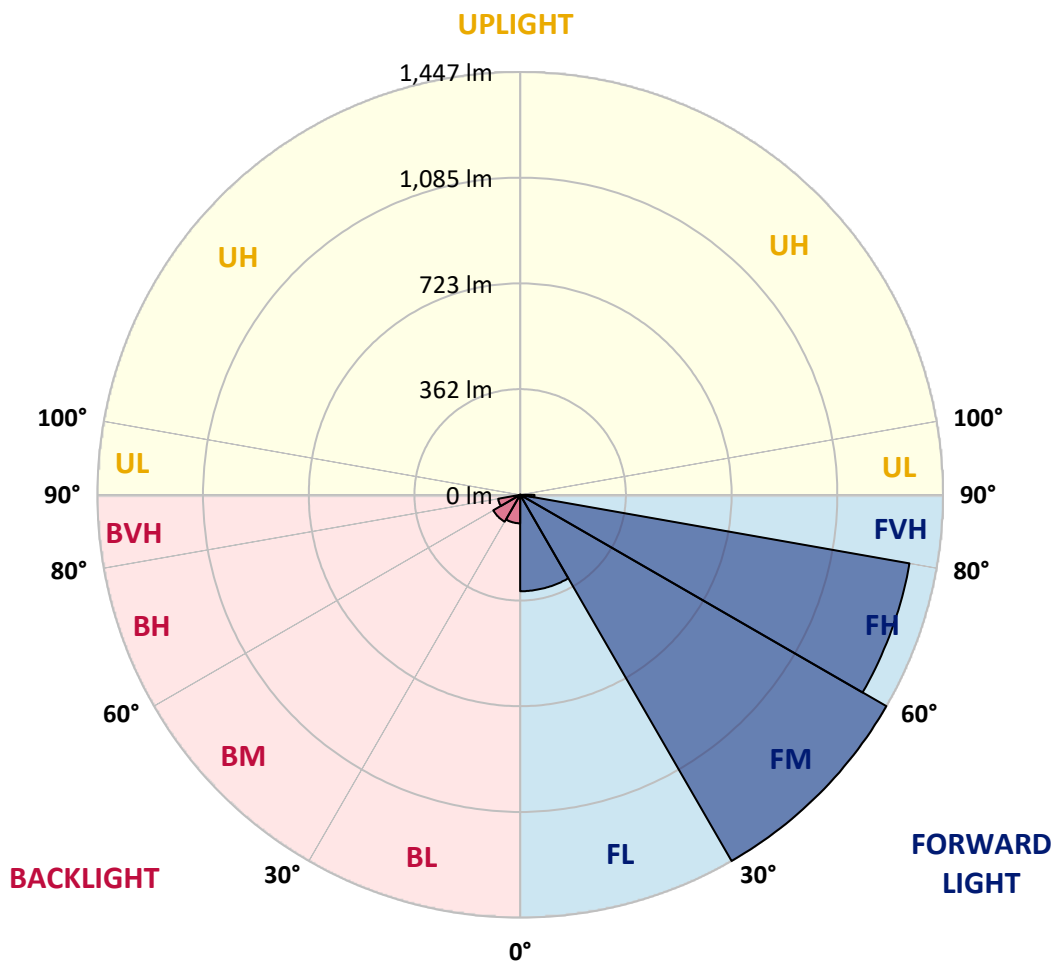
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 329.9 | 9.5 | | | |
| FM | (30°-60°) | 1447.0 | 41.8 | | | |
| FH | (60°-80°) | 1352.8 | 39.1 | | | G1/1800 |
| FVH | (80°-90°) | 48.8 | 1.4 | | | G1/100 |
| BL | (0°-30°) | 97.5 | 2.8 | B0/110 | | |
| BM | (30°-60°) | 106.2 | 3.1 | B0/220 | | |
| BH | (60°-80°) | 76.5 | 2.2 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 1.5 | 0.0 | | | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 900.7 | 900.7 | 900.7 | 900.7 | 900.7 | 900.7 | 900.7 | 900.7 | 900.7 | 900.7 | 900.7 |
| 2.5° | 987.1 | 986.7 | 982.5 | 980.5 | 977.0 | 969.5 | 957.9 | 951.8 | 942.2 | 925.1 | 902.3 |
| 5° | 978.1 | 982.8 | 985.4 | 985.5 | 988.1 | 985.4 | 975.0 | 969.9 | 956.4 | 929.0 | 888.0 |
| 7.5° | 917.1 | 918.9 | 926.1 | 932.3 | 944.4 | 956.0 | 959.8 | 957.5 | 949.6 | 920.2 | 865.7 |
| 10° | 851.7 | 853.6 | 862.0 | 870.4 | 886.7 | 904.5 | 923.4 | 927.3 | 930.6 | 907.7 | 844.1 |
| 12.5° | 795.4 | 797.1 | 805.9 | 816.7 | 835.9 | 857.8 | 886.9 | 893.4 | 908.1 | 895.7 | 826.9 |
| 15° | 746.9 | 747.7 | 756.3 | 769.5 | 792.4 | 820.6 | 853.7 | 864.0 | 886.5 | 887.3 | 811.8 |
| 17.5° | 705.6 | 707.6 | 712.8 | 725.5 | 750.6 | 785.3 | 824.0 | 838.8 | 865.3 | 880.3 | 797.1 |
| 20° | 680.3 | 682.4 | 682.1 | 689.1 | 711.6 | 748.9 | 794.2 | 812.1 | 844.1 | 873.1 | 784.1 |
| 22.5° | 675.4 | 675.4 | 670.3 | 669.3 | 682.7 | 713.8 | 763.2 | 785.0 | 825.1 | 869.9 | 774.8 |
| 25° | 692.8 | 692.0 | 679.4 | 669.0 | 669.5 | 688.2 | 733.3 | 759.2 | 809.1 | 872.1 | 769.9 |
| 27.5° | 729.7 | 728.6 | 712.6 | 692.8 | 677.0 | 676.9 | 710.6 | 738.5 | 796.4 | 882.3 | 771.9 |
| 30° | 780.5 | 780.1 | 762.7 | 737.8 | 709.1 | 682.7 | 702.9 | 728.1 | 788.2 | 900.7 | 776.4 |
| 32.5° | 836.1 | 835.5 | 822.4 | 796.2 | 759.8 | 709.1 | 711.1 | 732.1 | 790.5 | 925.1 | 787.3 |
| 35° | 895.0 | 894.0 | 888.3 | 865.5 | 825.4 | 757.8 | 738.0 | 754.6 | 805.4 | 961.7 | 808.8 |
| 37.5° | 958.7 | 959.8 | 963.8 | 942.0 | 899.9 | 826.1 | 783.3 | 794.5 | 835.3 | 1011.4 | 843.9 |
| 40° | 1052.9 | 1052.7 | 1054.1 | 1025.3 | 984.8 | 909.7 | 846.4 | 849.9 | 885.4 | 1077.3 | 897.1 |
| 42.5° | 1223.7 | 1211.8 | 1175.5 | 1116.8 | 1076.2 | 1005.1 | 926.1 | 922.3 | 946.6 | 1158.9 | 971.7 |
| 45° | 1453.2 | 1427.8 | 1333.8 | 1221.3 | 1169.3 | 1112.8 | 1024.1 | 1012.2 | 1027.7 | 1256.9 | 1063.6 |
| 47.5° | 1650.7 | 1624.2 | 1491.4 | 1330.1 | 1268.1 | 1214.9 | 1139.0 | 1117.5 | 1122.5 | 1366.8 | 1180.2 |
| 50° | 1717.8 | 1704.9 | 1588.8 | 1424.8 | 1363.8 | 1343.5 | 1272.3 | 1246.0 | 1238.8 | 1493.7 | 1315.5 |
| 52.5° | 1694.5 | 1693.5 | 1616.2 | 1486.3 | 1451.4 | 1476.5 | 1439.9 | 1409.6 | 1383.0 | 1627.5 | 1453.0 |
| 55° | 1657.1 | 1662.0 | 1627.3 | 1540.1 | 1538.9 | 1598.0 | 1669.3 | 1644.1 | 1566.9 | 1773.0 | 1571.5 |
| 57.5° | 1554.0 | 1575.0 | 1621.1 | 1641.8 | 1690.0 | 1750.5 | 1860.2 | 1875.1 | 1783.8 | 1884.2 | 1670.0 |
| 60° | 1260.9 | 1306.8 | 1457.9 | 1656.5 | 1884.6 | 2035.3 | 2090.6 | 2103.5 | 1962.0 | 1976.8 | 1802.9 |
| 62.5° | 895.0 | 942.0 | 1133.4 | 1469.4 | 1887.6 | 2409.6 | 2434.1 | 2384.1 | 2158.0 | 2113.9 | 2032.0 |
| 65° | 475.1 | 511.3 | 667.8 | 1060.7 | 1636.6 | 2496.5 | 3034.5 | 2885.9 | 2503.9 | 2383.8 | 2328.0 |
| 67.5° | 243.0 | 254.0 | 316.2 | 519.1 | 1125.1 | 2217.5 | 3572.9 | 3677.5 | 3100.1 | 2651.5 | 2313.8 |
| 69° | 215.0 | 221.5 | 262.8 | 375.3 | 720.4 | 1878.1 | 3599.1 | 3949.2 | 3412.2 | 2629.3 | 2102.5 |
| 70° | 208.1 | 213.8 | 251.4 | 339.7 | 563.1 | 1575.1 | 3498.7 | 3925.4 | 3492.0 | 2544.2 | 1945.0 |
| 72.5° | 176.7 | 181.6 | 223.9 | 300.1 | 457.7 | 781.9 | 2842.1 | 3326.3 | 3133.5 | 2119.4 | 1407.8 |
| 75° | 118.2 | 134.3 | 214.8 | 281.4 | 425.8 | 444.1 | 1873.7 | 2403.8 | 2232.9 | 1429.5 | 733.3 |
| 77.5° | 28.4 | 30.5 | 60.6 | 223.9 | 389.4 | 390.9 | 963.6 | 1494.3 | 1218.8 | 509.4 | 173.4 |
| 80° | 15.3 | 14.6 | 17.1 | 44.5 | 362.5 | 366.9 | 433.8 | 725.4 | 435.2 | 84.5 | 57.2 |
| 82.5° | 10.7 | 10.2 | 10.9 | 18.6 | 114.0 | 334.3 | 313.9 | 328.4 | 180.4 | 32.4 | 25.6 |
| 85° | 4.0 | 3.8 | 6.1 | 16.8 | 35.8 | 192.2 | 322.5 | 270.9 | 146.2 | 14.9 | 18.8 |
| 87.5° | 1.4 | 1.2 | 2.3 | 9.2 | 10.9 | 81.8 | 199.0 | 204.7 | 57.6 | 9.0 | 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° | 900.7 | 900.7 | 900.7 | 900.7 | 900.7 | 900.7 | 900.7 | 900.7 | 900.7 | 900.7 | 900.7 |
| 2.5° | 892.6 | 880.5 | 858.2 | 835.3 | 814.2 | 788.8 | 776.0 | 763.5 | 758.3 | 756.3 | 747.0 |
| 5° | 866.8 | 846.2 | 798.9 | 751.3 | 707.6 | 660.9 | 630.2 | 605.7 | 591.1 | 584.1 | 572.9 |
| 7.5° | 833.7 | 800.1 | 728.3 | 654.9 | 586.6 | 519.3 | 469.4 | 431.0 | 404.6 | 391.9 | 380.3 |
| 10° | 801.6 | 756.8 | 654.7 | 554.7 | 461.9 | 372.8 | 303.8 | 254.0 | 222.2 | 207.4 | 198.0 |
| 12.5° | 772.9 | 714.8 | 583.7 | 457.0 | 340.7 | 236.2 | 166.1 | 126.4 | 106.6 | 99.8 | 96.4 |
| 15° | 747.3 | 676.0 | 516.6 | 364.4 | 230.6 | 135.1 | 90.8 | 77.2 | 74.2 | 74.2 | 73.8 |
| 17.5° | 723.0 | 638.1 | 451.8 | 277.3 | 144.8 | 82.6 | 69.1 | 67.3 | 67.3 | 68.1 | 68.1 |
| 20° | 699.7 | 601.9 | 389.2 | 199.0 | 91.2 | 65.5 | 62.4 | 62.1 | 62.4 | 63.4 | 63.4 |
| 22.5° | 679.7 | 569.0 | 330.7 | 136.6 | 67.7 | 59.1 | 57.6 | 57.0 | 57.2 | 57.7 | 58.1 |
| 25° | 664.9 | 541.2 | 275.6 | 92.6 | 58.4 | 53.7 | 52.0 | 51.1 | 50.3 | 50.3 | 50.7 |
| 27.5° | 655.4 | 517.8 | 222.2 | 67.3 | 52.5 | 48.9 | 46.2 | 44.6 | 42.8 | 41.8 | 42.3 |
| 30° | 648.7 | 495.4 | 172.0 | 54.9 | 47.0 | 43.4 | 39.9 | 37.3 | 34.9 | 33.7 | 34.1 |
| 32.5° | 646.0 | 477.5 | 128.6 | 48.5 | 42.1 | 38.1 | 33.9 | 30.5 | 27.8 | 26.8 | 27.0 |
| 35° | 653.0 | 463.2 | 94.1 | 43.8 | 38.1 | 33.3 | 28.4 | 24.7 | 22.5 | 22.0 | 22.1 |
| 37.5° | 671.0 | 455.5 | 70.5 | 39.9 | 34.6 | 29.2 | 23.7 | 20.1 | 18.8 | 18.8 | 19.0 |
| 40° | 704.9 | 455.3 | 56.6 | 37.1 | 31.4 | 25.2 | 19.5 | 17.1 | 16.3 | 16.6 | 16.8 |
| 42.5° | 754.7 | 465.7 | 49.2 | 34.6 | 28.7 | 21.6 | 16.3 | 14.5 | 14.3 | 14.6 | 14.9 |
| 45° | 822.6 | 484.7 | 45.4 | 32.4 | 25.7 | 18.0 | 13.6 | 12.6 | 12.6 | 13.1 | 13.3 |
| 47.5° | 905.8 | 512.4 | 42.1 | 30.4 | 23.0 | 15.1 | 11.7 | 10.9 | 11.2 | 11.7 | 11.9 |
| 50° | 1006.0 | 547.5 | 38.8 | 28.0 | 20.8 | 12.6 | 10.2 | 9.7 | 9.9 | 10.6 | 10.7 |
| 52.5° | 1120.0 | 594.6 | 36.0 | 25.7 | 18.0 | 10.4 | 8.6 | 8.2 | 8.6 | 9.4 | 9.7 |
| 55° | 1217.8 | 636.9 | 32.7 | 24.0 | 14.5 | 8.6 | 7.0 | 7.0 | 7.4 | 8.4 | 8.6 |
| 57.5° | 1311.9 | 681.1 | 29.7 | 20.8 | 11.4 | 6.9 | 5.9 | 6.1 | 6.7 | 7.6 | 7.8 |
| 60° | 1450.1 | 756.1 | 26.2 | 17.4 | 8.6 | 5.5 | 4.9 | 5.1 | 5.9 | 6.9 | 7.0 |
| 62.5° | 1684.7 | 870.1 | 22.7 | 14.5 | 6.7 | 4.3 | 4.0 | 4.3 | 5.3 | 6.4 | 6.7 |
| 65° | 1896.4 | 916.4 | 18.6 | 12.1 | 5.1 | 3.3 | 3.3 | 4.0 | 5.1 | 6.2 | 6.4 |
| 67.5° | 1778.4 | 771.5 | 14.5 | 9.7 | 4.0 | 2.5 | 2.7 | 3.8 | 4.9 | 6.2 | 6.4 |
| 69° | 1572.8 | 630.9 | 12.3 | 7.6 | 3.3 | 2.3 | 2.5 | 3.8 | 4.9 | 6.1 | 6.2 |
| 70° | 1412.5 | 532.6 | 10.9 | 6.4 | 2.9 | 2.3 | 2.5 | 3.5 | 4.9 | 6.1 | 6.2 |
| 72.5° | 946.0 | 287.7 | 8.8 | 4.7 | 2.7 | 2.1 | 2.1 | 3.5 | 4.7 | 5.9 | 6.1 |
| 75° | 406.6 | 79.4 | 7.0 | 3.3 | 2.3 | 1.9 | 1.9 | 3.3 | 4.5 | 5.7 | 6.1 |
| 77.5° | 74.4 | 20.1 | 5.7 | 2.9 | 2.3 | 1.9 | 1.7 | 3.2 | 4.3 | 5.5 | 5.7 |
| 80° | 29.5 | 10.0 | 4.5 | 2.5 | 2.1 | 1.7 | 1.5 | 2.9 | 4.2 | 5.3 | 5.5 |
| 82.5° | 17.8 | 5.7 | 3.8 | 2.3 | 2.1 | 1.5 | 1.4 | 2.5 | 4.0 | 5.1 | 5.3 |
| 85° | 14.5 | 4.0 | 2.9 | 2.3 | 1.9 | 1.5 | 1.2 | 2.3 | 3.5 | 4.9 | 5.1 |
| 87.5° | 7.0 | 2.7 | 2.7 | 2.1 | 1.9 | 1.5 | 1.2 | 2.1 | 3.3 | 4.7 | 4.9 |
| 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)