

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: P191964

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-SL3-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28766 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

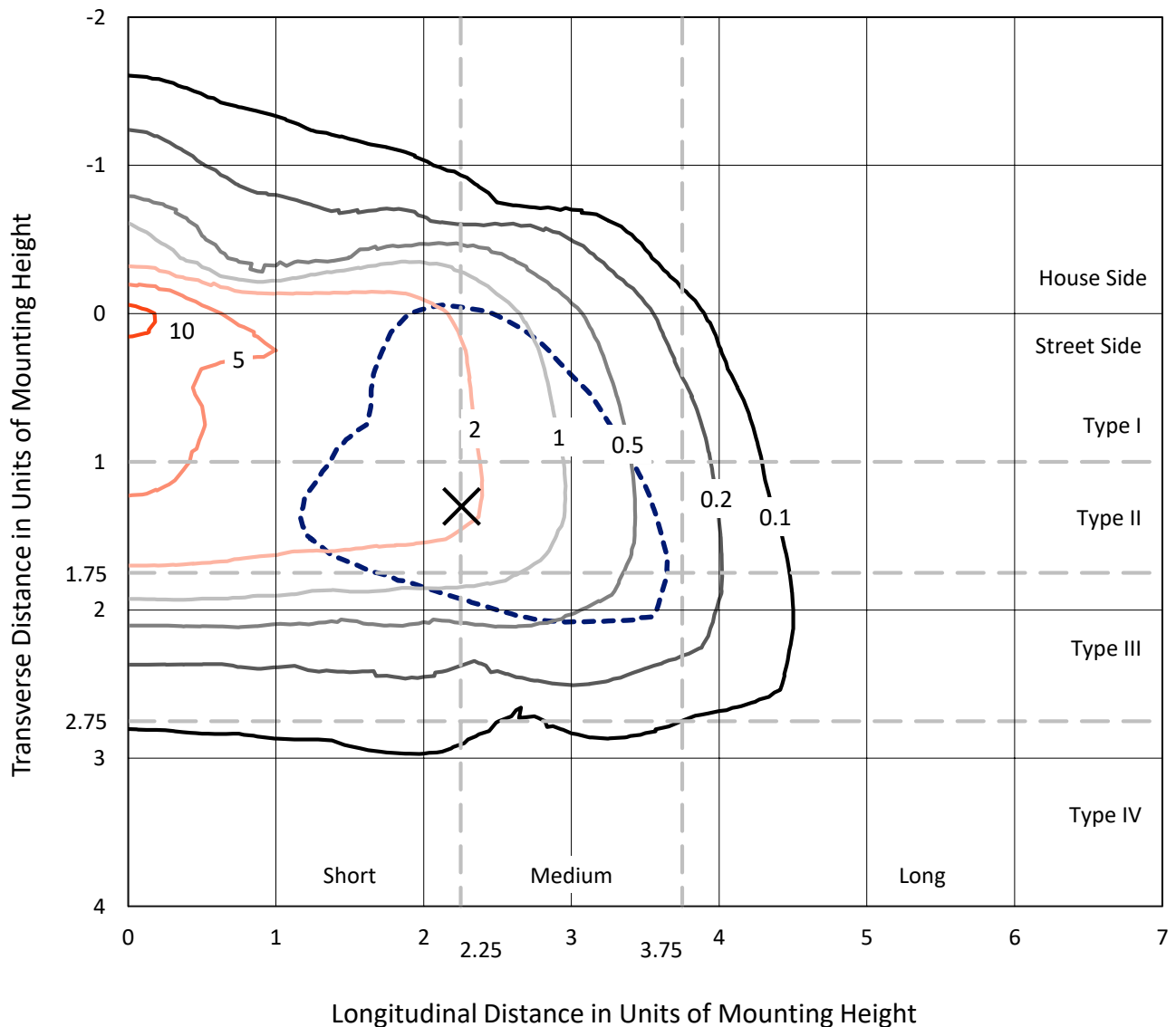
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

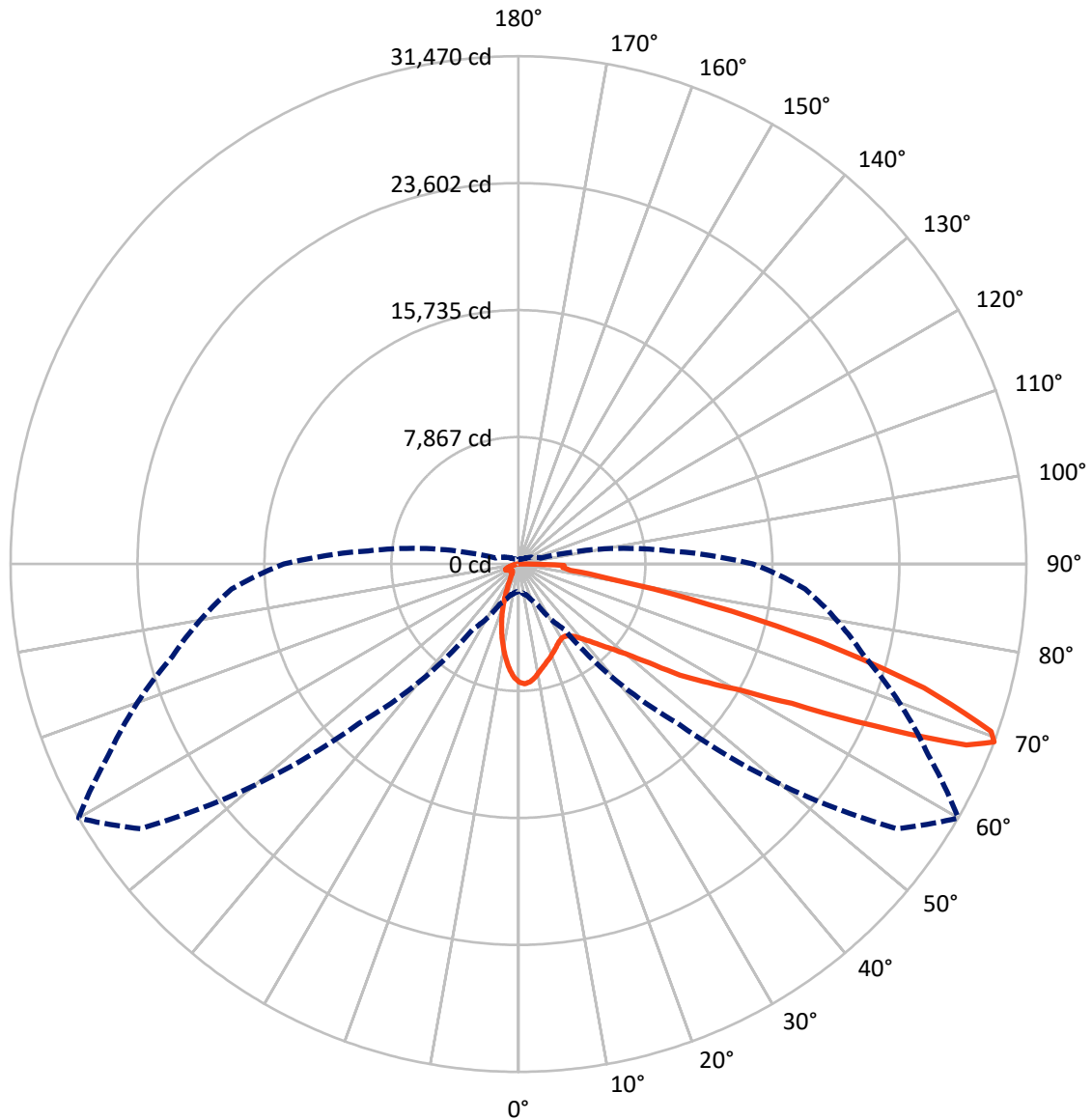
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4092.5 | 0.0 | 4092.5 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 24673.5 | 0.0 | 24673.5 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 28766.0 | 0.0 | 28766.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 619.8 | 2.2 |
| 10°-20° | 1320.5 | 4.6 |
| 20°-30° | 1682.5 | 5.8 |
| 30°-40° | 2313.1 | 8.0 |
| 40°-50° | 3753.1 | 13.0 |
| 50°-60° | 6019.1 | 20.9 |
| 60°-70° | 8010.9 | 27.8 |
| 70°-80° | 4325.3 | 15.0 |
| 80°-90° | 721.7 | 2.5 |
| 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° | 28766.0 | 100.0 |
| 0°-180° | 28766.0 | 100.0 |



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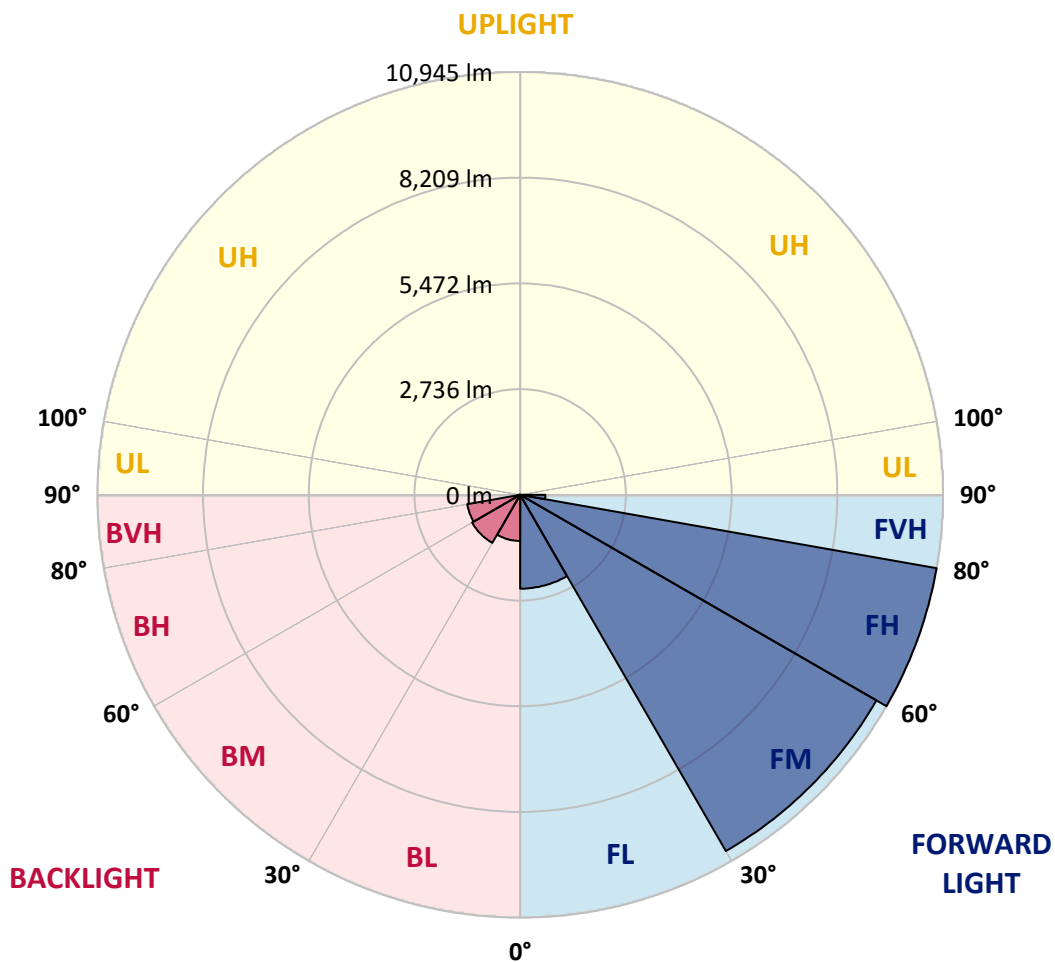
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2428.9 | 8.4 | | | |
| FM | (30°-60°) | 10647.5 | 37.0 | | | |
| FH | (60°-80°) | 10944.9 | 38.0 | | | G4/12000 |
| FVH | (80°-90°) | 652.2 | 2.3 | | | G4/750 |
| BL | (0°-30°) | 1193.9 | 4.2 | B3/2500 | | |
| BM | (30°-60°) | 1437.8 | 5.0 | B2/2500 | | |
| BH | (60°-80°) | 1391.3 | 4.8 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 69.5 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7330.0 | 7330.0 | 7330.0 | 7330.0 | 7330.0 | 7330.0 | 7330.0 | 7330.0 | 7330.0 | 7330.0 | 7330.0 |
| 2.5° | 7480.1 | 7496.8 | 7489.8 | 7485.6 | 7498.2 | 7478.7 | 7438.4 | 7425.9 | 7406.4 | 7360.6 | 7282.8 |
| 5° | 7199.4 | 7249.4 | 7246.6 | 7284.2 | 7346.7 | 7363.4 | 7345.3 | 7348.1 | 7311.9 | 7255.0 | 7125.7 |
| 7.5° | 6714.4 | 6735.3 | 6746.4 | 6828.4 | 6942.3 | 7034.0 | 7111.9 | 7136.9 | 7120.2 | 7071.6 | 6904.8 |
| 10° | 6214.2 | 6230.9 | 6257.3 | 6353.1 | 6497.7 | 6624.1 | 6771.4 | 6856.2 | 6892.3 | 6884.0 | 6697.8 |
| 12.5° | 5784.8 | 5801.5 | 5836.2 | 5944.6 | 6116.9 | 6272.5 | 6486.5 | 6592.1 | 6678.3 | 6729.7 | 6529.6 |
| 15° | 5399.9 | 5436.0 | 5469.4 | 5594.4 | 5787.6 | 5991.9 | 6233.6 | 6367.0 | 6500.4 | 6615.8 | 6380.9 |
| 17.5° | 5099.7 | 5135.9 | 5155.3 | 5269.3 | 5474.9 | 5725.1 | 6008.5 | 6165.5 | 6332.3 | 6521.3 | 6233.6 |
| 20° | 4926.0 | 4942.7 | 4934.4 | 4998.3 | 5183.1 | 5448.5 | 5784.8 | 5966.8 | 6168.3 | 6432.3 | 6086.3 |
| 22.5° | 4877.4 | 4878.8 | 4848.2 | 4841.3 | 4960.8 | 5184.5 | 5545.8 | 5766.7 | 6014.1 | 6374.0 | 5959.9 |
| 25° | 4995.5 | 4991.4 | 4908.0 | 4839.9 | 4852.4 | 4983.0 | 5315.1 | 5572.2 | 5884.9 | 6361.5 | 5862.6 |
| 27.5° | 5258.2 | 5270.7 | 5147.0 | 5019.1 | 4892.7 | 4888.5 | 5140.0 | 5411.0 | 5779.2 | 6418.5 | 5820.9 |
| 30° | 5626.4 | 5647.2 | 5515.2 | 5352.6 | 5115.0 | 4919.1 | 5072.0 | 5315.1 | 5713.9 | 6536.6 | 5814.0 |
| 32.5° | 6029.4 | 6051.6 | 5951.6 | 5780.6 | 5469.4 | 5108.1 | 5119.2 | 5323.5 | 5711.2 | 6701.9 | 5861.2 |
| 35° | 6458.7 | 6483.8 | 6432.3 | 6287.8 | 5941.8 | 5456.9 | 5299.8 | 5458.3 | 5801.5 | 6954.8 | 5987.7 |
| 37.5° | 6938.2 | 6977.1 | 6991.0 | 6853.4 | 6483.8 | 5916.8 | 5595.8 | 5713.9 | 6005.7 | 7306.4 | 6219.7 |
| 40° | 7628.8 | 7683.0 | 7678.8 | 7481.5 | 7104.9 | 6538.0 | 6053.0 | 6083.6 | 6324.0 | 7776.1 | 6590.8 |
| 42.5° | 8951.6 | 8962.8 | 8616.8 | 8187.4 | 7788.6 | 7191.1 | 6592.1 | 6567.1 | 6763.1 | 8370.8 | 7136.9 |
| 45° | 10634.4 | 10588.6 | 9818.7 | 8989.2 | 8502.8 | 7941.4 | 7293.9 | 7171.6 | 7320.3 | 9096.2 | 7820.5 |
| 47.5° | 12030.9 | 11925.3 | 10952.6 | 9807.6 | 9258.7 | 8757.1 | 8117.9 | 7903.9 | 7985.9 | 9918.8 | 8704.3 |
| 50° | 12515.9 | 12436.7 | 11630.8 | 10488.5 | 9974.4 | 9752.0 | 9132.3 | 8829.4 | 8851.6 | 10899.8 | 9739.5 |
| 52.5° | 12411.7 | 12400.6 | 11862.8 | 10937.4 | 10644.2 | 10797.0 | 10569.1 | 10159.2 | 9942.4 | 11989.3 | 10856.8 |
| 55° | 12165.7 | 12189.4 | 11994.8 | 11459.8 | 11409.8 | 11805.8 | 12446.4 | 12143.5 | 11469.6 | 13088.4 | 12011.5 |
| 57.5° | 11311.1 | 11372.3 | 11800.3 | 12117.1 | 12642.4 | 13231.5 | 13958.3 | 13872.1 | 13113.4 | 14276.5 | 13384.4 |
| 60° | 9112.8 | 9254.6 | 10402.4 | 11989.3 | 13911.0 | 15753.6 | 16078.8 | 15878.7 | 14808.7 | 15750.8 | 15197.8 |
| 62.5° | 6385.1 | 6532.4 | 7897.0 | 10380.1 | 13702.6 | 18602.3 | 19869.5 | 19006.6 | 17243.2 | 17922.8 | 17544.8 |
| 65° | 3418.4 | 3489.2 | 4531.4 | 7202.2 | 11568.2 | 19190.0 | 25409.8 | 24096.6 | 21097.9 | 20600.5 | 19552.7 |
| 67.5° | 1885.7 | 1924.6 | 2323.4 | 3636.5 | 7409.2 | 16898.6 | 28939.3 | 29931.5 | 25915.6 | 22383.3 | 19187.3 |
| 69° | 1705.0 | 1741.1 | 2002.4 | 2754.1 | 4958.0 | 13972.2 | 28594.7 | 31469.7 | 28027.7 | 22206.8 | 17836.6 |
| 70° | 1667.5 | 1700.8 | 1935.7 | 2538.8 | 4013.1 | 11516.8 | 27440.0 | 31076.5 | 28530.8 | 21574.6 | 16658.2 |
| 72.5° | 1500.7 | 1536.9 | 1764.8 | 2280.3 | 3429.5 | 5741.7 | 21735.7 | 26275.5 | 25903.1 | 18706.5 | 12635.4 |
| 75° | 1399.3 | 1432.7 | 1819.0 | 2233.0 | 3283.6 | 3633.7 | 14329.3 | 19365.1 | 19041.4 | 13085.6 | 6813.1 |
| 77.5° | 598.9 | 596.1 | 843.5 | 1889.8 | 3332.2 | 3518.4 | 7699.6 | 12097.6 | 11037.4 | 5593.0 | 1956.5 |
| 80° | 400.2 | 393.3 | 400.2 | 555.8 | 3055.7 | 3537.9 | 4033.9 | 6140.5 | 4638.4 | 1425.7 | 964.4 |
| 82.5° | 344.6 | 339.1 | 351.6 | 339.1 | 1074.1 | 4038.1 | 3429.5 | 3265.5 | 2205.3 | 810.1 | 478.0 |
| 85° | 232.1 | 222.3 | 302.9 | 304.3 | 507.2 | 3587.9 | 3863.0 | 2758.3 | 1784.2 | 480.8 | 236.2 |
| 87.5° | 111.2 | 108.4 | 176.5 | 215.4 | 297.4 | 1457.7 | 4334.1 | 2826.4 | 1799.5 | 246.0 | 112.6 |
| 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° | 7330.0 | 7330.0 | 7330.0 | 7330.0 | 7330.0 | 7330.0 | 7330.0 | 7330.0 | 7330.0 | 7330.0 | 7330.0 |
| 2.5° | 7259.1 | 7202.2 | 7146.6 | 7079.9 | 7010.4 | 6932.6 | 6893.7 | 6854.8 | 6845.1 | 6833.9 | 6795.0 |
| 5° | 7059.0 | 6978.5 | 6839.5 | 6686.6 | 6525.4 | 6368.4 | 6248.9 | 6173.9 | 6116.9 | 6087.7 | 6036.3 |
| 7.5° | 6800.6 | 6682.5 | 6439.3 | 6175.3 | 5904.3 | 5657.0 | 5443.0 | 5308.2 | 5180.3 | 5120.6 | 5052.5 |
| 10° | 6554.6 | 6378.2 | 6000.2 | 5611.1 | 5222.0 | 4848.2 | 4496.7 | 4247.9 | 4027.0 | 3903.3 | 3815.8 |
| 12.5° | 6343.4 | 6101.6 | 5577.8 | 5051.1 | 4517.5 | 3985.3 | 3458.7 | 3044.6 | 2698.6 | 2516.5 | 2423.4 |
| 15° | 6137.8 | 5845.9 | 5176.2 | 4507.8 | 3822.7 | 3098.8 | 2406.7 | 1937.1 | 1650.8 | 1536.9 | 1498.0 |
| 17.5° | 5951.6 | 5577.8 | 4773.2 | 3960.3 | 3105.7 | 2230.3 | 1617.5 | 1359.0 | 1249.2 | 1211.7 | 1199.2 |
| 20° | 5750.1 | 5306.8 | 4354.9 | 3387.8 | 2358.1 | 1559.1 | 1263.1 | 1149.2 | 1104.7 | 1093.6 | 1088.0 |
| 22.5° | 5555.5 | 5040.0 | 3954.7 | 2775.0 | 1693.9 | 1203.4 | 1085.3 | 1038.0 | 1031.1 | 1040.8 | 1040.8 |
| 25° | 5390.2 | 4801.0 | 3522.6 | 2134.4 | 1243.7 | 1013.0 | 971.3 | 960.2 | 986.6 | 1022.7 | 1029.7 |
| 27.5° | 5266.5 | 4605.1 | 3062.6 | 1575.8 | 990.8 | 881.0 | 879.6 | 897.7 | 963.0 | 1032.5 | 1046.4 |
| 30° | 5181.7 | 4418.9 | 2570.7 | 1136.7 | 831.0 | 775.4 | 797.6 | 836.5 | 932.4 | 1031.1 | 1057.5 |
| 32.5° | 5138.7 | 4281.3 | 2058.0 | 879.6 | 711.5 | 680.9 | 718.4 | 765.7 | 860.1 | 951.9 | 986.6 |
| 35° | 5172.0 | 4179.8 | 1574.4 | 733.7 | 628.1 | 604.5 | 643.4 | 689.2 | 744.8 | 783.7 | 810.1 |
| 37.5° | 5297.1 | 4139.5 | 1188.1 | 657.3 | 571.1 | 548.9 | 579.5 | 605.9 | 628.1 | 639.2 | 651.7 |
| 40° | 5566.6 | 4182.6 | 951.9 | 618.4 | 539.2 | 511.4 | 523.9 | 533.6 | 547.5 | 558.6 | 564.2 |
| 42.5° | 5964.1 | 4311.9 | 853.2 | 603.1 | 522.5 | 482.2 | 479.4 | 483.6 | 501.6 | 522.5 | 526.6 |
| 45° | 6519.9 | 4539.7 | 846.3 | 612.8 | 514.1 | 458.6 | 446.1 | 451.6 | 479.4 | 511.4 | 516.9 |
| 47.5° | 7230.0 | 4887.1 | 901.8 | 642.0 | 521.1 | 446.1 | 425.2 | 432.2 | 466.9 | 510.0 | 516.9 |
| 50° | 8090.1 | 5372.1 | 994.9 | 685.1 | 551.7 | 448.8 | 418.3 | 422.4 | 458.6 | 505.8 | 512.8 |
| 52.5° | 9105.9 | 6059.9 | 1096.4 | 726.7 | 583.6 | 466.9 | 423.8 | 414.1 | 447.4 | 489.1 | 497.5 |
| 55° | 10235.6 | 6942.3 | 1200.6 | 764.3 | 600.3 | 489.1 | 434.9 | 403.0 | 426.6 | 461.3 | 468.3 |
| 57.5° | 11622.4 | 8176.3 | 1381.2 | 800.4 | 611.4 | 504.4 | 446.1 | 391.9 | 400.2 | 425.2 | 430.8 |
| 60° | 13499.7 | 9921.6 | 1699.5 | 860.1 | 636.4 | 510.0 | 444.7 | 382.1 | 373.8 | 387.7 | 390.5 |
| 62.5° | 15749.5 | 11817.0 | 1964.9 | 935.2 | 678.1 | 514.1 | 436.3 | 375.2 | 351.6 | 351.6 | 354.3 |
| 65° | 17084.8 | 12324.1 | 1817.6 | 997.7 | 712.9 | 510.0 | 426.6 | 368.2 | 334.9 | 319.6 | 321.0 |
| 67.5° | 15952.3 | 10838.7 | 1557.7 | 1010.2 | 711.5 | 490.5 | 411.3 | 355.7 | 318.2 | 294.6 | 293.2 |
| 69° | 14533.6 | 9351.8 | 1441.0 | 976.9 | 678.1 | 465.5 | 391.9 | 341.8 | 305.7 | 280.7 | 279.3 |
| 70° | 13390.0 | 8444.5 | 1364.6 | 940.7 | 642.0 | 447.4 | 376.6 | 329.3 | 296.0 | 272.4 | 269.6 |
| 72.5° | 9735.4 | 5533.3 | 1165.9 | 808.7 | 529.4 | 375.2 | 325.2 | 289.0 | 264.0 | 250.1 | 247.3 |
| 75° | 4864.9 | 2638.8 | 946.3 | 655.9 | 405.8 | 300.1 | 266.8 | 241.8 | 229.3 | 226.5 | 225.1 |
| 77.5° | 1598.0 | 1208.9 | 676.7 | 489.1 | 301.5 | 234.8 | 215.4 | 197.3 | 194.5 | 202.9 | 200.1 |
| 80° | 878.2 | 703.1 | 429.4 | 323.8 | 205.7 | 172.3 | 169.5 | 159.8 | 164.0 | 177.9 | 175.1 |
| 82.5° | 447.4 | 365.5 | 265.4 | 194.5 | 139.0 | 123.7 | 134.8 | 129.2 | 134.8 | 147.3 | 145.9 |
| 85° | 220.9 | 200.1 | 168.1 | 118.1 | 91.7 | 79.2 | 95.9 | 100.0 | 102.8 | 112.6 | 112.6 |
| 87.5° | 127.8 | 118.1 | 88.9 | 55.6 | 45.9 | 41.7 | 55.6 | 54.2 | 63.9 | 69.5 | 68.1 |
| 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)