

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: P269313

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269313
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-05-LED-E1-SL3-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA 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: 25849.3 lumens
Efficiency: N/A
Efficacy: 92.6 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

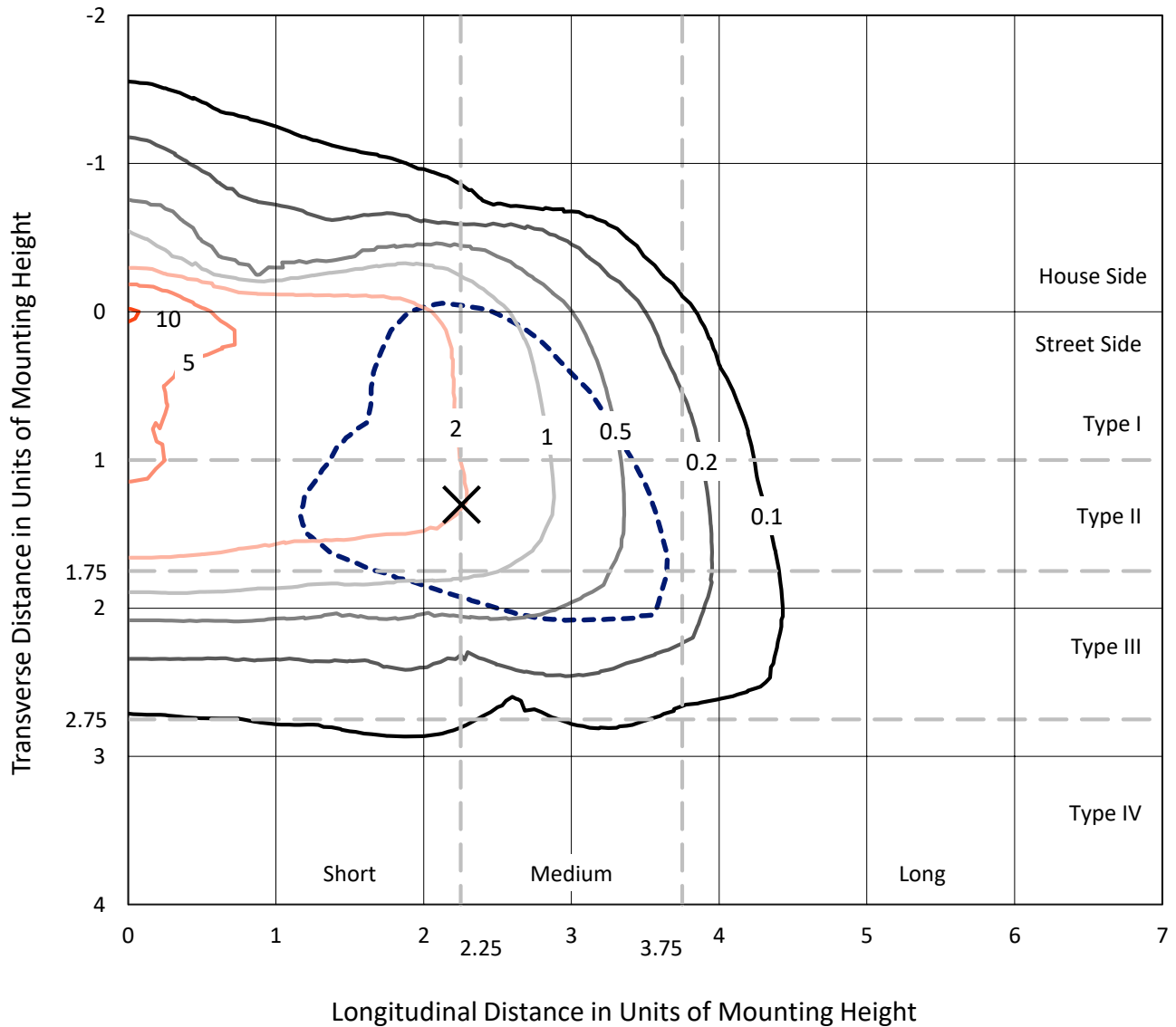
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

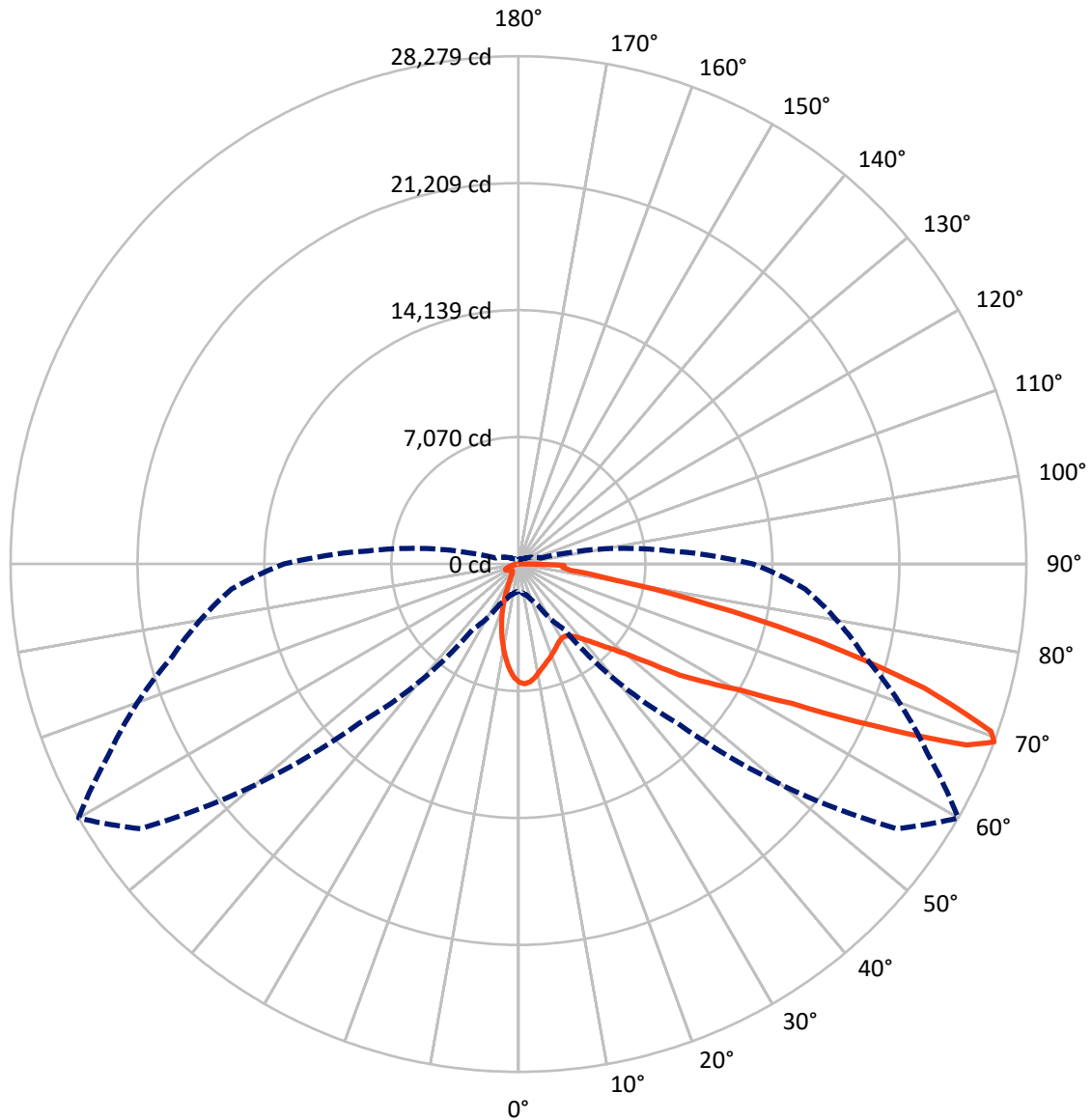
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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 | 3677.5 | 0.0 | 3677.5 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 22171.7 | 0.0 | 22171.7 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 25849.3 | 0.0 | 25849.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 556.9 | 2.2 |
| 10°-20° | 1186.6 | 4.6 |
| 20°-30° | 1511.9 | 5.8 |
| 30°-40° | 2078.5 | 8.0 |
| 40°-50° | 3372.6 | 13.0 |
| 50°-60° | 5408.8 | 20.9 |
| 60°-70° | 7198.7 | 27.8 |
| 70°-80° | 3886.7 | 15.0 |
| 80°-90° | 648.5 | 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° | 25849.3 | 100.0 |
| 0°-180° | 25849.3 | 100.0 |



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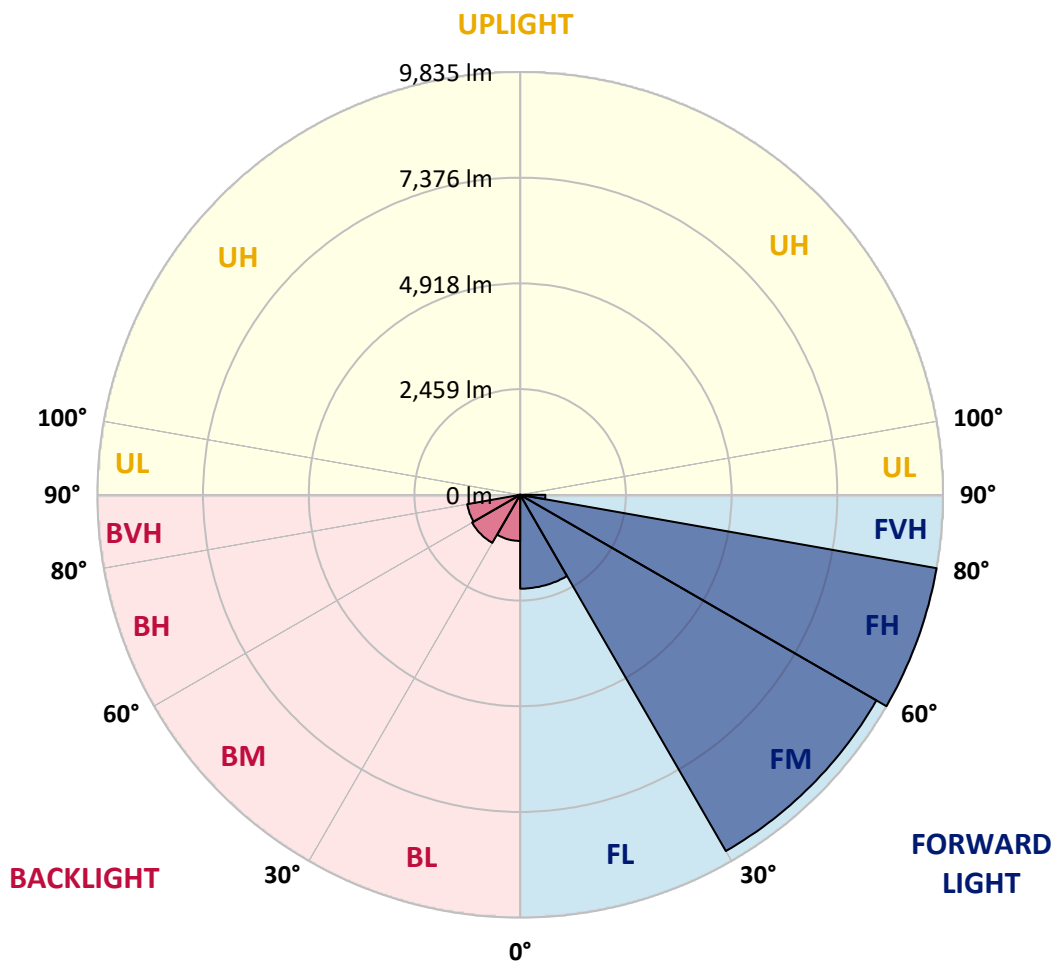
CATALOG NUMBER: GLEON-AF-05-LED-E1-SL3-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2182.6 | 8.4 | | | |
| FM | (30°-60°) | 9567.9 | 37.0 | | | |
| FH | (60°-80°) | 9835.2 | 38.0 | | | G4/12000 |
| FVH | (80°-90°) | 586.1 | 2.3 | | | G4/750 |
| BL | (0°-30°) | 1072.9 | 4.2 | B3/2500 | | |
| BM | (30°-60°) | 1292.0 | 5.0 | B2/2500 | | |
| BH | (60°-80°) | 1250.2 | 4.8 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 62.4 | 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° | 6586.8 | 6586.8 | 6586.8 | 6586.8 | 6586.8 | 6586.8 | 6586.8 | 6586.8 | 6586.8 | 6586.8 | 6586.8 |
| 2.5° | 6721.7 | 6736.6 | 6730.5 | 6726.7 | 6737.8 | 6720.4 | 6684.2 | 6673.0 | 6655.5 | 6614.3 | 6544.3 |
| 5° | 6469.5 | 6514.4 | 6511.9 | 6545.6 | 6601.7 | 6616.7 | 6600.6 | 6603.0 | 6570.6 | 6519.4 | 6403.2 |
| 7.5° | 6033.6 | 6052.3 | 6062.3 | 6136.1 | 6238.4 | 6320.8 | 6390.7 | 6413.2 | 6398.3 | 6354.5 | 6204.8 |
| 10° | 5584.1 | 5599.0 | 5622.9 | 5709.0 | 5838.9 | 5952.4 | 6084.8 | 6160.9 | 6193.5 | 6186.0 | 6018.6 |
| 12.5° | 5198.2 | 5213.3 | 5244.5 | 5341.9 | 5496.6 | 5636.5 | 5828.8 | 5923.8 | 6001.1 | 6047.4 | 5867.5 |
| 15° | 4852.4 | 4884.9 | 4914.7 | 5027.2 | 5200.7 | 5384.4 | 5601.7 | 5721.5 | 5841.3 | 5945.0 | 5733.9 |
| 17.5° | 4582.7 | 4615.1 | 4632.6 | 4735.0 | 4919.7 | 5144.6 | 5399.4 | 5540.3 | 5690.3 | 5860.1 | 5601.7 |
| 20° | 4426.6 | 4441.6 | 4434.0 | 4491.4 | 4657.6 | 4896.1 | 5198.2 | 5361.9 | 5542.9 | 5780.1 | 5469.2 |
| 22.5° | 4382.9 | 4384.1 | 4356.6 | 4350.4 | 4457.7 | 4658.8 | 4983.4 | 5182.1 | 5404.4 | 5727.8 | 5355.5 |
| 25° | 4489.0 | 4485.2 | 4410.4 | 4349.1 | 4360.5 | 4477.8 | 4776.2 | 5007.2 | 5288.1 | 5716.5 | 5268.2 |
| 27.5° | 4725.1 | 4736.3 | 4625.2 | 4510.2 | 4396.7 | 4392.8 | 4618.8 | 4862.3 | 5193.2 | 5767.7 | 5230.7 |
| 30° | 5055.9 | 5074.6 | 4955.9 | 4810.0 | 4596.4 | 4420.3 | 4557.7 | 4776.2 | 5134.6 | 5873.7 | 5224.5 |
| 32.5° | 5418.0 | 5438.0 | 5348.1 | 5194.4 | 4914.7 | 4590.2 | 4600.1 | 4783.7 | 5132.0 | 6022.3 | 5266.9 |
| 35° | 5803.9 | 5826.3 | 5780.1 | 5650.2 | 5339.3 | 4903.6 | 4762.5 | 4904.8 | 5213.3 | 6249.7 | 5380.6 |
| 37.5° | 6234.6 | 6269.6 | 6282.0 | 6158.5 | 5826.3 | 5316.9 | 5028.4 | 5134.6 | 5396.7 | 6565.5 | 5589.1 |
| 40° | 6855.2 | 6904.0 | 6900.2 | 6722.8 | 6384.6 | 5875.1 | 5439.2 | 5466.7 | 5682.8 | 6987.6 | 5922.4 |
| 42.5° | 8044.1 | 8053.9 | 7743.1 | 7357.2 | 6998.9 | 6461.9 | 5923.8 | 5901.2 | 6077.4 | 7522.0 | 6413.2 |
| 45° | 9556.2 | 9514.9 | 8823.2 | 8077.6 | 7640.7 | 7136.2 | 6554.4 | 6444.4 | 6578.1 | 8173.9 | 7027.6 |
| 47.5° | 10811.1 | 10716.2 | 9842.1 | 8813.2 | 8319.9 | 7869.2 | 7294.7 | 7102.4 | 7176.2 | 8913.2 | 7821.7 |
| 50° | 11246.9 | 11175.8 | 10451.5 | 9425.0 | 8963.0 | 8763.2 | 8206.3 | 7934.1 | 7954.1 | 9794.7 | 8751.9 |
| 52.5° | 11153.3 | 11143.2 | 10659.9 | 9828.4 | 9565.0 | 9702.2 | 9497.5 | 9129.0 | 8934.4 | 10773.6 | 9756.0 |
| 55° | 10932.3 | 10953.5 | 10778.7 | 10297.9 | 10253.0 | 10608.9 | 11184.4 | 10912.3 | 10306.7 | 11761.2 | 10793.6 |
| 57.5° | 10164.2 | 10219.2 | 10603.9 | 10888.4 | 11360.4 | 11890.0 | 12543.0 | 12465.6 | 11783.7 | 12829.0 | 12027.2 |
| 60° | 8188.9 | 8316.1 | 9347.7 | 10773.6 | 12500.5 | 14156.3 | 14448.5 | 14268.7 | 13307.2 | 14153.8 | 13656.8 |
| 62.5° | 5737.7 | 5870.1 | 7096.3 | 9327.6 | 12313.2 | 16716.1 | 17854.9 | 17079.5 | 15494.9 | 16105.5 | 15765.9 |
| 65° | 3071.8 | 3135.4 | 4071.9 | 6471.8 | 10395.2 | 17244.3 | 22833.4 | 21653.4 | 18958.6 | 18511.7 | 17570.2 |
| 67.5° | 1694.5 | 1729.4 | 2087.8 | 3267.9 | 6658.0 | 15185.2 | 26005.0 | 26896.6 | 23287.9 | 20113.7 | 17241.8 |
| 69° | 1532.1 | 1564.6 | 1799.3 | 2474.9 | 4455.4 | 12555.5 | 25695.4 | 28278.9 | 25185.9 | 19955.2 | 16028.1 |
| 70° | 1498.5 | 1528.3 | 1739.4 | 2281.3 | 3606.2 | 10349.1 | 24657.7 | 27925.5 | 25637.8 | 19387.0 | 14969.1 |
| 72.5° | 1348.5 | 1381.1 | 1585.8 | 2049.0 | 3081.7 | 5159.5 | 19531.8 | 23611.3 | 23276.6 | 16809.8 | 11354.2 |
| 75° | 1257.4 | 1287.5 | 1634.6 | 2006.6 | 2950.7 | 3265.2 | 12876.3 | 17401.5 | 17110.6 | 11758.9 | 6122.3 |
| 77.5° | 538.2 | 535.7 | 757.9 | 1698.2 | 2994.3 | 3161.7 | 6918.9 | 10871.0 | 9918.2 | 5025.9 | 1758.2 |
| 80° | 359.6 | 353.4 | 359.6 | 499.5 | 2745.8 | 3179.1 | 3624.9 | 5517.8 | 4168.0 | 1281.2 | 866.5 |
| 82.5° | 309.6 | 304.6 | 315.9 | 304.6 | 965.1 | 3628.7 | 3081.7 | 2934.5 | 1981.7 | 727.9 | 429.6 |
| 85° | 208.5 | 199.9 | 272.1 | 273.4 | 455.8 | 3224.0 | 3471.3 | 2478.7 | 1603.4 | 432.1 | 212.3 |
| 87.5° | 99.9 | 97.3 | 158.6 | 193.6 | 267.2 | 1309.9 | 3894.6 | 2539.8 | 1617.0 | 221.1 | 101.1 |
| 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° | 6586.8 | 6586.8 | 6586.8 | 6586.8 | 6586.8 | 6586.8 | 6586.8 | 6586.8 | 6586.8 | 6586.8 | 6586.8 |
| 2.5° | 6523.1 | 6471.8 | 6422.0 | 6362.1 | 6299.6 | 6229.7 | 6194.7 | 6159.8 | 6151.1 | 6141.1 | 6106.0 |
| 5° | 6343.3 | 6270.9 | 6146.1 | 6008.7 | 5863.7 | 5722.7 | 5615.3 | 5547.9 | 5496.6 | 5470.5 | 5424.2 |
| 7.5° | 6111.0 | 6004.9 | 5786.4 | 5549.1 | 5305.6 | 5083.4 | 4891.1 | 4770.0 | 4655.0 | 4601.4 | 4540.3 |
| 10° | 5890.0 | 5731.5 | 5391.7 | 5042.1 | 4692.6 | 4356.6 | 4040.8 | 3817.2 | 3618.7 | 3507.5 | 3428.9 |
| 12.5° | 5700.3 | 5483.0 | 5012.3 | 4539.0 | 4059.5 | 3581.3 | 3108.0 | 2735.9 | 2425.0 | 2261.4 | 2177.8 |
| 15° | 5515.5 | 5253.2 | 4651.3 | 4050.6 | 3435.1 | 2784.6 | 2162.7 | 1740.6 | 1483.5 | 1381.1 | 1346.1 |
| 17.5° | 5348.1 | 5012.3 | 4289.1 | 3558.7 | 2790.9 | 2004.1 | 1453.5 | 1221.2 | 1122.5 | 1088.8 | 1077.5 |
| 20° | 5167.1 | 4768.7 | 3913.3 | 3044.3 | 2119.0 | 1401.0 | 1135.1 | 1032.6 | 992.6 | 982.7 | 977.7 |
| 22.5° | 4992.2 | 4529.0 | 3553.8 | 2493.7 | 1522.2 | 1081.4 | 975.2 | 932.8 | 926.5 | 935.2 | 935.2 |
| 25° | 4843.7 | 4314.2 | 3165.4 | 1918.1 | 1117.6 | 910.3 | 872.9 | 862.8 | 886.5 | 919.1 | 925.3 |
| 27.5° | 4732.5 | 4138.1 | 2752.0 | 1416.0 | 890.3 | 791.6 | 790.4 | 806.7 | 865.3 | 927.8 | 940.3 |
| 30° | 4656.4 | 3970.8 | 2310.0 | 1021.5 | 746.8 | 696.7 | 716.8 | 751.7 | 837.8 | 926.5 | 950.2 |
| 32.5° | 4617.6 | 3847.3 | 1849.3 | 790.4 | 639.4 | 611.8 | 645.5 | 688.0 | 772.9 | 855.4 | 886.5 |
| 35° | 4647.7 | 3756.1 | 1414.7 | 659.3 | 564.5 | 543.1 | 578.1 | 619.3 | 669.2 | 704.2 | 727.9 |
| 37.5° | 4759.9 | 3719.8 | 1067.6 | 590.6 | 513.2 | 493.2 | 520.7 | 544.5 | 564.5 | 574.3 | 585.6 |
| 40° | 5002.2 | 3758.5 | 855.4 | 555.6 | 484.5 | 459.6 | 470.7 | 479.4 | 492.0 | 502.0 | 507.0 |
| 42.5° | 5359.4 | 3874.7 | 766.8 | 541.9 | 469.5 | 433.3 | 430.7 | 434.5 | 450.8 | 469.5 | 473.2 |
| 45° | 5858.8 | 4079.5 | 760.4 | 550.8 | 462.0 | 412.1 | 400.9 | 405.9 | 430.7 | 459.6 | 464.6 |
| 47.5° | 6496.9 | 4391.6 | 810.5 | 576.9 | 468.2 | 400.9 | 382.0 | 388.3 | 419.6 | 458.2 | 464.6 |
| 50° | 7269.9 | 4827.4 | 894.1 | 615.6 | 495.8 | 403.2 | 375.9 | 379.7 | 412.1 | 454.5 | 460.8 |
| 52.5° | 8182.7 | 5445.4 | 985.3 | 653.1 | 524.4 | 419.6 | 380.8 | 372.1 | 402.1 | 439.5 | 447.0 |
| 55° | 9197.7 | 6238.4 | 1078.9 | 686.8 | 539.4 | 439.5 | 390.9 | 362.0 | 383.3 | 414.6 | 420.8 |
| 57.5° | 10444.0 | 7347.2 | 1241.2 | 719.3 | 549.5 | 453.3 | 400.9 | 352.1 | 359.6 | 382.0 | 387.1 |
| 60° | 12130.9 | 8915.6 | 1527.1 | 772.9 | 572.0 | 458.2 | 399.6 | 343.4 | 335.8 | 348.5 | 350.9 |
| 62.5° | 14152.5 | 10618.8 | 1765.6 | 840.4 | 609.4 | 462.0 | 392.1 | 337.1 | 315.9 | 315.9 | 318.4 |
| 65° | 15352.6 | 11074.6 | 1633.3 | 896.6 | 640.6 | 458.2 | 383.3 | 330.8 | 300.9 | 287.2 | 288.4 |
| 67.5° | 14334.9 | 9739.8 | 1399.7 | 907.7 | 639.4 | 440.8 | 369.7 | 319.6 | 285.9 | 264.7 | 263.5 |
| 69° | 13060.0 | 8403.6 | 1294.8 | 877.9 | 609.4 | 418.3 | 352.1 | 307.2 | 274.7 | 252.2 | 250.9 |
| 70° | 12032.3 | 7588.3 | 1226.1 | 845.3 | 576.9 | 402.1 | 338.4 | 295.9 | 266.0 | 244.8 | 242.3 |
| 72.5° | 8748.2 | 4972.3 | 1047.7 | 726.6 | 475.7 | 337.1 | 292.2 | 259.7 | 237.2 | 224.8 | 222.3 |
| 75° | 4371.6 | 2371.3 | 850.3 | 589.4 | 364.6 | 269.8 | 239.8 | 217.3 | 206.0 | 203.6 | 202.3 |
| 77.5° | 1436.0 | 1086.3 | 608.2 | 439.5 | 271.0 | 211.0 | 193.6 | 177.3 | 174.8 | 182.3 | 179.8 |
| 80° | 789.3 | 631.9 | 385.8 | 291.0 | 184.8 | 154.9 | 152.4 | 143.5 | 147.3 | 159.8 | 157.4 |
| 82.5° | 402.1 | 328.4 | 238.5 | 174.8 | 124.9 | 111.1 | 121.1 | 116.2 | 121.1 | 132.4 | 131.2 |
| 85° | 198.5 | 179.8 | 151.1 | 106.1 | 82.5 | 71.1 | 86.1 | 89.9 | 92.3 | 101.1 | 101.1 |
| 87.5° | 114.9 | 106.1 | 79.9 | 49.9 | 41.2 | 37.5 | 49.9 | 48.7 | 57.4 | 62.4 | 61.2 |
| 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)