

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: P269644

Luminaire Tested: **GLEON-AF-09-LED-E1-SL4-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-SL4-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35494.3 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

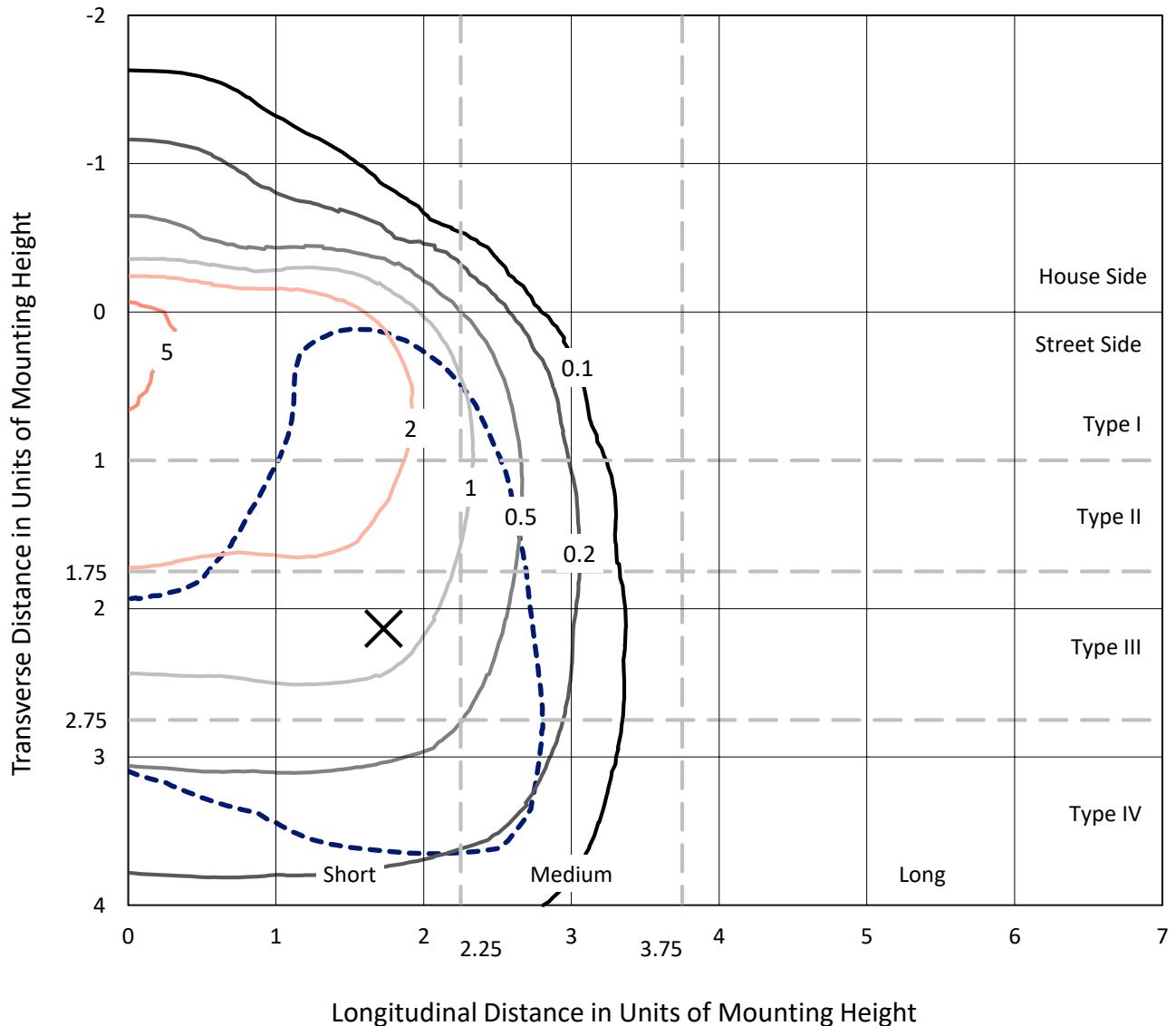
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

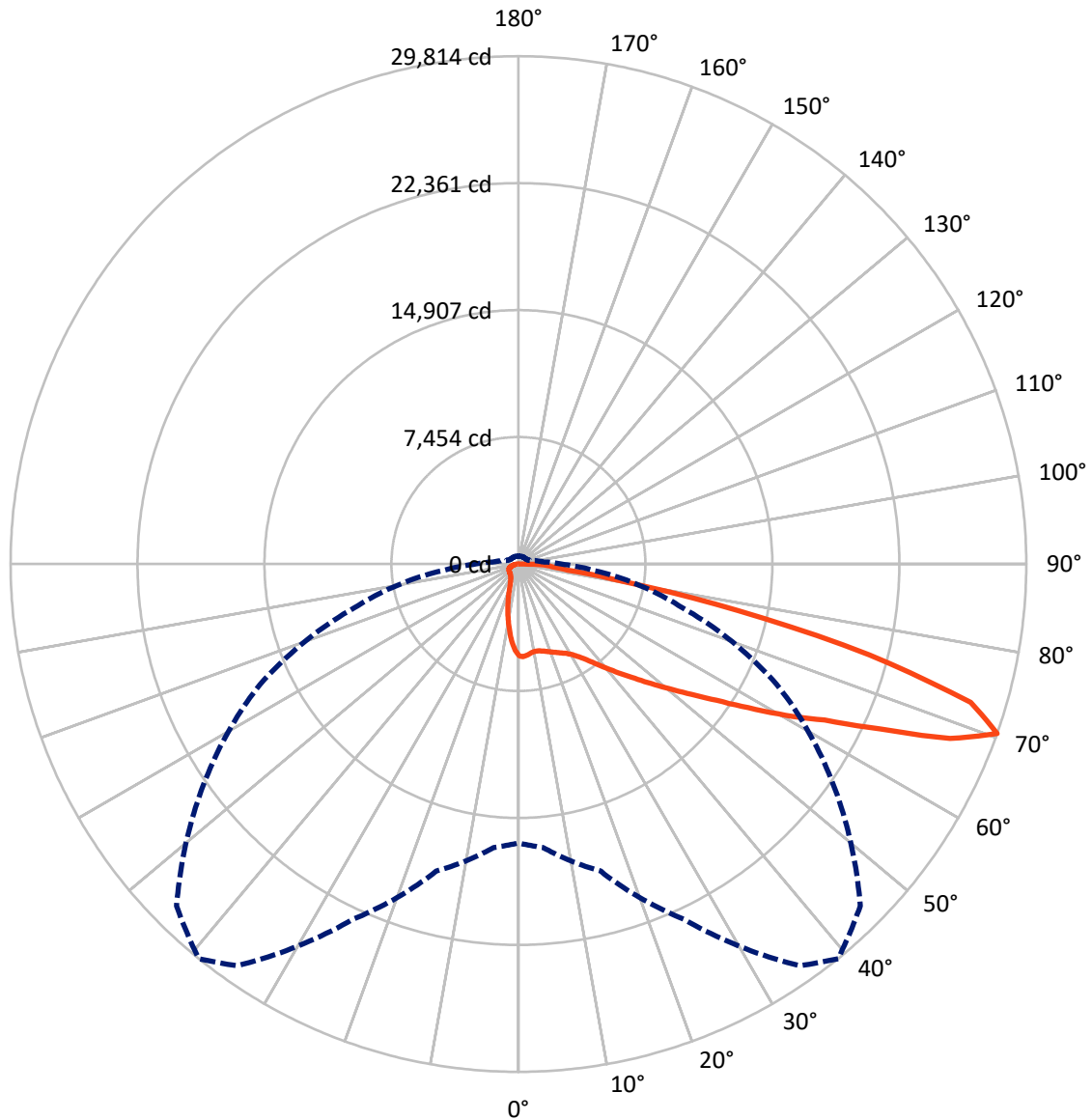


Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4036.9 | 0.0 | 4036.9 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 31457.4 | 0.0 | 31457.4 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 35494.3 | 0.0 | 35494.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 462.4 | 1.3 |
| 10°-20° | 1155.9 | 3.3 |
| 20°-30° | 1799.8 | 5.1 |
| 30°-40° | 2803.8 | 7.9 |
| 40°-50° | 4707.1 | 13.3 |
| 50°-60° | 7477.6 | 21.1 |
| 60°-70° | 9974.3 | 28.1 |
| 70°-80° | 6023.2 | 17.0 |
| 80°-90° | 1090.1 | 3.1 |
| 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° | 35494.3 | 100.0 |
| 0°-180° | 35494.3 | 100.0 |



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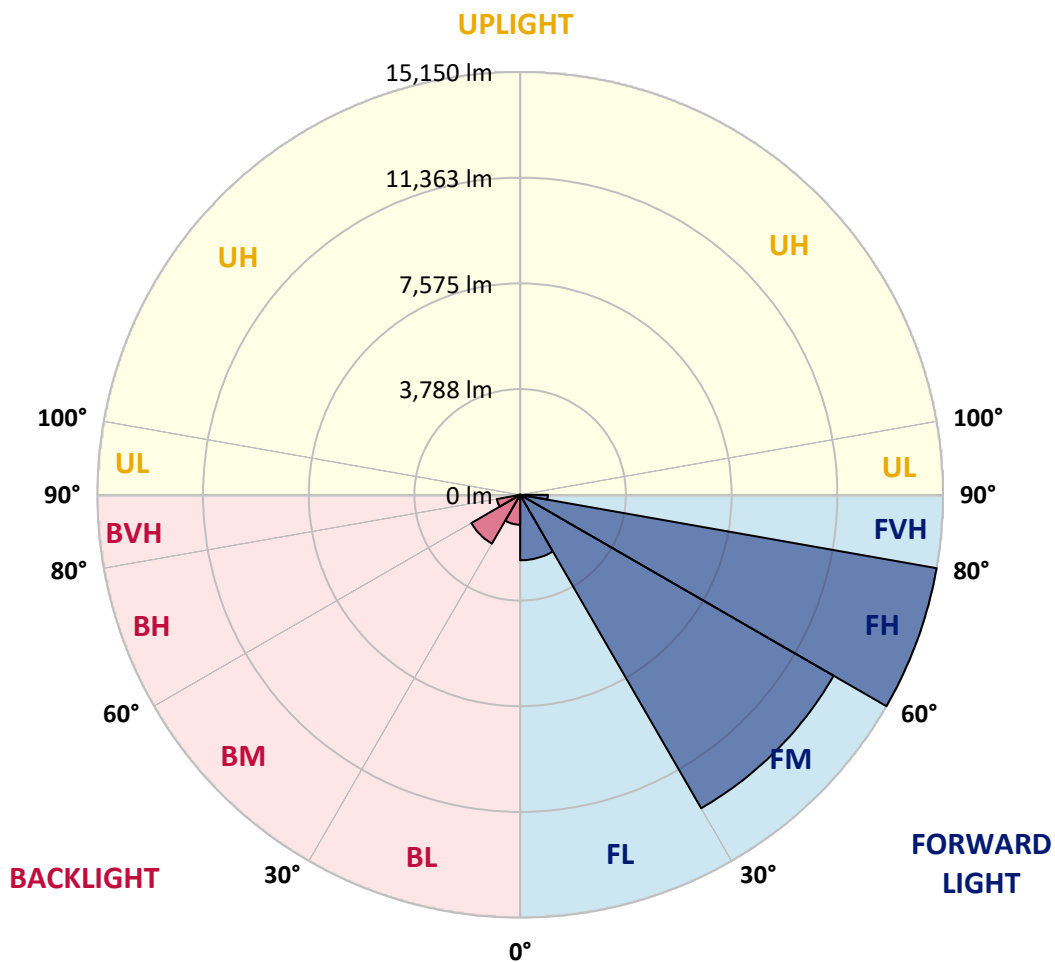
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2347.3 | 6.6 | | | |
| FM | (30°-60°) | 12968.2 | 36.5 | | | |
| FH | (60°-80°) | 15150.0 | 42.7 | | | G5 |
| FVH | (80°-90°) | 991.9 | 2.8 | | | G5 |
| BL | (0°-30°) | 1070.9 | 3.0 | B3/2500 | | |
| BM | (30°-60°) | 2020.2 | 5.7 | B2/2500 | | |
| BH | (60°-80°) | 847.5 | 2.4 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 98.3 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5388.7 | 5388.7 | 5388.7 | 5388.7 | 5388.7 | 5388.7 | 5388.7 | 5388.7 | 5388.7 | 5388.7 | 5388.7 |
| 2.5° | 5493.2 | 5491.5 | 5477.1 | 5466.1 | 5457.2 | 5453.5 | 5460.7 | 5433.7 | 5410.2 | 5381.3 | 5350.7 |
| 5° | 5451.8 | 5449.9 | 5426.5 | 5404.8 | 5383.2 | 5375.9 | 5374.1 | 5325.4 | 5296.5 | 5253.3 | 5195.4 |
| 7.5° | 5406.5 | 5397.6 | 5367.0 | 5330.8 | 5293.0 | 5274.8 | 5256.8 | 5193.7 | 5161.2 | 5118.0 | 5051.1 |
| 10° | 5359.6 | 5348.9 | 5320.0 | 5283.9 | 5247.8 | 5220.8 | 5190.0 | 5128.8 | 5094.5 | 5061.9 | 4984.3 |
| 12.5° | 5311.0 | 5301.9 | 5294.7 | 5278.5 | 5253.3 | 5229.8 | 5206.3 | 5153.9 | 5118.0 | 5079.9 | 4989.7 |
| 15° | 5303.8 | 5300.2 | 5316.3 | 5327.2 | 5312.8 | 5298.4 | 5273.1 | 5228.0 | 5190.0 | 5152.1 | 5034.9 |
| 17.5° | 5361.5 | 5359.6 | 5401.1 | 5430.1 | 5422.9 | 5397.6 | 5363.3 | 5312.8 | 5282.2 | 5249.6 | 5103.5 |
| 20° | 5487.8 | 5496.9 | 5547.5 | 5585.3 | 5549.2 | 5513.1 | 5457.2 | 5386.7 | 5370.5 | 5356.1 | 5173.9 |
| 22.5° | 5726.1 | 5735.0 | 5771.3 | 5785.7 | 5691.8 | 5639.4 | 5561.9 | 5471.5 | 5460.7 | 5471.5 | 5258.7 |
| 25° | 6097.9 | 6088.8 | 6083.3 | 6029.2 | 5857.8 | 5776.6 | 5677.3 | 5583.4 | 5588.9 | 5637.7 | 5377.8 |
| 27.5° | 6590.4 | 6541.7 | 6465.9 | 6303.5 | 6031.0 | 5940.9 | 5819.8 | 5733.3 | 5767.6 | 5861.4 | 5556.5 |
| 30° | 7101.1 | 7047.1 | 6871.9 | 6606.8 | 6258.4 | 6159.1 | 6023.9 | 5926.4 | 6016.6 | 6164.6 | 5794.6 |
| 32.5° | 7574.0 | 7566.8 | 7310.4 | 6969.4 | 6572.4 | 6485.9 | 6350.5 | 6240.3 | 6386.5 | 6612.2 | 6152.0 |
| 35° | 8090.0 | 8106.3 | 7799.5 | 7389.8 | 6996.4 | 6906.3 | 6808.9 | 6725.8 | 6920.7 | 7231.0 | 6669.8 |
| 37.5° | 8642.4 | 8674.8 | 8312.0 | 7850.1 | 7480.1 | 7442.3 | 7384.4 | 7348.3 | 7649.7 | 8079.3 | 7393.5 |
| 40° | 9380.5 | 9347.9 | 8844.4 | 8369.8 | 8073.8 | 8072.1 | 8054.1 | 8097.3 | 8598.9 | 9187.2 | 8322.8 |
| 42.5° | 10170.8 | 10075.2 | 9409.2 | 8927.4 | 8725.2 | 8786.7 | 8822.8 | 8999.6 | 9741.3 | 10533.5 | 9456.2 |
| 45° | 11022.7 | 10807.9 | 9995.8 | 9517.5 | 9449.0 | 9578.8 | 9701.6 | 10086.0 | 11085.8 | 12065.7 | 10697.7 |
| 47.5° | 11702.8 | 11495.4 | 10602.2 | 10136.6 | 10286.3 | 10483.0 | 10719.5 | 11327.5 | 12590.9 | 13648.3 | 11923.2 |
| 50° | 12238.9 | 12103.6 | 11213.9 | 10858.4 | 11208.5 | 11511.6 | 11897.8 | 12733.4 | 14157.2 | 15189.4 | 13058.2 |
| 52.5° | 12758.6 | 12657.6 | 11831.0 | 11598.2 | 12291.2 | 12709.8 | 13235.1 | 14242.0 | 15763.3 | 16705.3 | 14012.8 |
| 55° | 13227.8 | 13155.7 | 12495.2 | 12520.4 | 13565.2 | 14110.2 | 14770.8 | 15960.0 | 17513.8 | 18057.0 | 14821.3 |
| 57.5° | 13756.6 | 13664.6 | 13253.1 | 13677.1 | 15202.0 | 15909.5 | 16768.5 | 17891.0 | 19155.9 | 19258.9 | 15436.7 |
| 60° | 14289.0 | 14209.6 | 14094.0 | 15012.7 | 17281.1 | 18024.5 | 18838.4 | 19762.4 | 20821.6 | 20191.8 | 15400.6 |
| 62.5° | 14751.0 | 14760.0 | 14963.8 | 16414.8 | 19316.7 | 20177.4 | 21169.9 | 22083.2 | 22328.5 | 20354.2 | 14261.9 |
| 65° | 15534.1 | 15676.7 | 16284.8 | 18399.9 | 22182.3 | 23333.7 | 24551.8 | 24405.6 | 22745.4 | 18836.6 | 11820.3 |
| 67.5° | 16465.4 | 16716.2 | 17948.8 | 21045.4 | 25804.3 | 27332.6 | 27803.7 | 24930.8 | 21076.2 | 15312.1 | 8425.7 |
| 70° | 16371.5 | 16716.2 | 18667.0 | 23017.9 | 28789.1 | 29814.0 | 28384.9 | 22563.1 | 16736.1 | 10002.9 | 4475.4 |
| 72.5° | 14538.0 | 15030.6 | 17203.4 | 22113.8 | 27848.8 | 27758.6 | 24642.0 | 16820.9 | 9943.3 | 4017.1 | 1748.7 |
| 75° | 11080.4 | 11578.4 | 13447.9 | 17470.4 | 22010.9 | 21253.0 | 17484.9 | 9292.0 | 3773.4 | 1595.3 | 1102.6 |
| 77.5° | 6374.0 | 6760.0 | 8203.9 | 10714.1 | 13964.2 | 13186.3 | 9732.2 | 4132.6 | 1837.2 | 1111.7 | 860.8 |
| 80° | 3558.6 | 3773.4 | 4650.4 | 5435.6 | 6843.1 | 6272.9 | 4354.5 | 2568.0 | 1371.5 | 806.7 | 664.0 |
| 82.5° | 2813.4 | 3004.7 | 3760.8 | 3428.8 | 3125.7 | 2883.7 | 2501.2 | 2286.5 | 1095.5 | 508.9 | 397.1 |
| 85° | 2457.9 | 2640.2 | 3183.4 | 2699.6 | 2134.8 | 1958.0 | 2032.0 | 2250.3 | 851.9 | 306.9 | 339.3 |
| 87.5° | 2277.5 | 2521.1 | 2836.8 | 2080.7 | 1662.0 | 1472.6 | 1875.0 | 2466.9 | 274.3 | 191.2 | 137.1 |
| 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° | 5388.7 | 5388.7 | 5388.7 | 5388.7 | 5388.7 | 5388.7 | 5388.7 | 5388.7 | 5388.7 | 5388.7 | 5388.7 |
| 2.5° | 5323.6 | 5294.7 | 5247.8 | 5206.3 | 5141.4 | 5107.0 | 5069.1 | 5042.0 | 5020.4 | 5002.4 | 5031.2 |
| 5° | 5159.3 | 5105.2 | 5006.1 | 4899.5 | 4773.2 | 4673.9 | 4591.0 | 4513.4 | 4459.1 | 4423.2 | 4448.3 |
| 7.5° | 5004.2 | 4915.7 | 4760.6 | 4567.5 | 4350.9 | 4166.9 | 4015.2 | 3881.8 | 3789.7 | 3730.1 | 3753.6 |
| 10° | 4915.7 | 4805.8 | 4565.6 | 4262.5 | 3943.1 | 3656.1 | 3418.0 | 3212.2 | 3069.7 | 2988.4 | 3001.1 |
| 12.5° | 4894.1 | 4751.6 | 4419.5 | 4002.7 | 3565.9 | 3167.2 | 2831.5 | 2546.3 | 2346.1 | 2241.4 | 2245.0 |
| 15° | 4910.3 | 4728.0 | 4282.4 | 3753.6 | 3201.4 | 2697.9 | 2279.2 | 1932.8 | 1700.0 | 1580.8 | 1579.0 |
| 17.5° | 4937.4 | 4710.1 | 4138.0 | 3484.7 | 2831.5 | 2246.8 | 1779.4 | 1440.2 | 1234.4 | 1138.7 | 1131.4 |
| 20° | 4966.3 | 4681.2 | 3975.5 | 3194.2 | 2447.1 | 1828.1 | 1393.1 | 1127.9 | 997.9 | 945.6 | 942.1 |
| 22.5° | 5007.8 | 4655.9 | 3807.7 | 2887.4 | 2069.9 | 1488.9 | 1146.0 | 967.3 | 898.8 | 871.6 | 868.0 |
| 25° | 5074.5 | 4643.2 | 3629.2 | 2568.0 | 1730.7 | 1245.2 | 997.9 | 887.9 | 848.2 | 830.2 | 828.2 |
| 27.5° | 5186.5 | 4661.3 | 3461.3 | 2257.6 | 1454.5 | 1081.0 | 915.0 | 848.2 | 819.3 | 803.1 | 801.3 |
| 30° | 5330.8 | 4717.3 | 3284.5 | 1963.4 | 1239.8 | 969.1 | 864.3 | 821.1 | 797.7 | 781.3 | 781.3 |
| 32.5° | 5570.8 | 4811.1 | 3098.6 | 1708.9 | 1086.4 | 891.5 | 826.5 | 797.7 | 777.8 | 765.1 | 763.4 |
| 35° | 5924.5 | 4988.0 | 2925.3 | 1497.8 | 976.3 | 835.6 | 794.0 | 772.4 | 757.9 | 750.8 | 750.8 |
| 37.5° | 6439.0 | 5267.8 | 2771.9 | 1346.2 | 909.5 | 797.7 | 763.4 | 747.1 | 738.0 | 738.0 | 738.0 |
| 40° | 7130.0 | 5653.8 | 2647.3 | 1245.2 | 871.6 | 770.6 | 739.9 | 727.3 | 721.9 | 723.7 | 723.7 |
| 42.5° | 7983.6 | 6155.5 | 2564.3 | 1174.9 | 853.6 | 754.3 | 723.7 | 712.9 | 707.4 | 705.6 | 707.4 |
| 45° | 8956.3 | 6725.8 | 2555.4 | 1122.5 | 835.6 | 743.4 | 712.9 | 701.9 | 691.2 | 684.0 | 684.0 |
| 47.5° | 9901.9 | 7305.0 | 2629.2 | 1104.5 | 815.8 | 731.0 | 703.8 | 693.0 | 676.8 | 660.6 | 660.6 |
| 50° | 10737.5 | 7797.7 | 2728.6 | 1111.7 | 808.5 | 712.9 | 689.4 | 684.0 | 658.6 | 640.6 | 638.9 |
| 52.5° | 11401.6 | 8176.7 | 2809.8 | 1133.3 | 815.8 | 700.1 | 671.4 | 673.1 | 646.1 | 626.2 | 624.4 |
| 55° | 11934.0 | 8425.7 | 2788.1 | 1155.0 | 831.9 | 693.0 | 655.0 | 658.6 | 637.0 | 617.1 | 617.1 |
| 57.5° | 12166.7 | 8333.8 | 2548.1 | 1137.0 | 844.5 | 694.7 | 642.5 | 656.9 | 638.9 | 620.8 | 620.8 |
| 60° | 11666.8 | 7516.2 | 2098.8 | 1057.6 | 828.2 | 689.4 | 637.0 | 664.0 | 662.3 | 644.3 | 642.5 |
| 62.5° | 10154.6 | 6052.7 | 1627.8 | 940.2 | 772.4 | 662.3 | 622.5 | 662.3 | 682.2 | 676.8 | 674.9 |
| 65° | 7826.7 | 4311.2 | 1243.3 | 813.9 | 696.5 | 617.1 | 584.6 | 620.8 | 647.9 | 655.0 | 653.2 |
| 67.5° | 5079.9 | 2641.9 | 958.2 | 694.7 | 611.7 | 564.9 | 536.0 | 552.2 | 557.6 | 557.6 | 554.1 |
| 70° | 2497.6 | 1422.0 | 763.4 | 584.6 | 525.1 | 508.9 | 492.7 | 483.6 | 474.7 | 467.4 | 467.4 |
| 72.5° | 1232.6 | 929.3 | 628.0 | 494.4 | 452.9 | 445.7 | 442.1 | 431.2 | 424.1 | 415.0 | 411.5 |
| 75° | 911.3 | 756.2 | 534.1 | 416.9 | 389.9 | 382.6 | 389.9 | 380.8 | 378.9 | 371.8 | 368.1 |
| 77.5° | 748.8 | 644.3 | 460.2 | 357.3 | 333.9 | 321.2 | 332.1 | 333.9 | 335.6 | 324.8 | 321.2 |
| 80° | 608.2 | 545.0 | 384.4 | 295.9 | 274.3 | 265.3 | 272.5 | 286.9 | 290.5 | 274.3 | 267.1 |
| 82.5° | 438.6 | 445.7 | 310.5 | 231.0 | 213.0 | 205.7 | 220.2 | 238.2 | 241.9 | 218.4 | 213.0 |
| 85° | 368.1 | 371.8 | 238.2 | 164.2 | 146.2 | 135.4 | 158.8 | 176.8 | 189.5 | 166.0 | 160.5 |
| 87.5° | 153.4 | 218.4 | 137.1 | 92.0 | 81.1 | 70.3 | 84.8 | 93.9 | 113.6 | 104.7 | 102.9 |
| 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)