

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: P322683

Luminaire Tested: **GLEON-SA9B-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9B-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26671 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

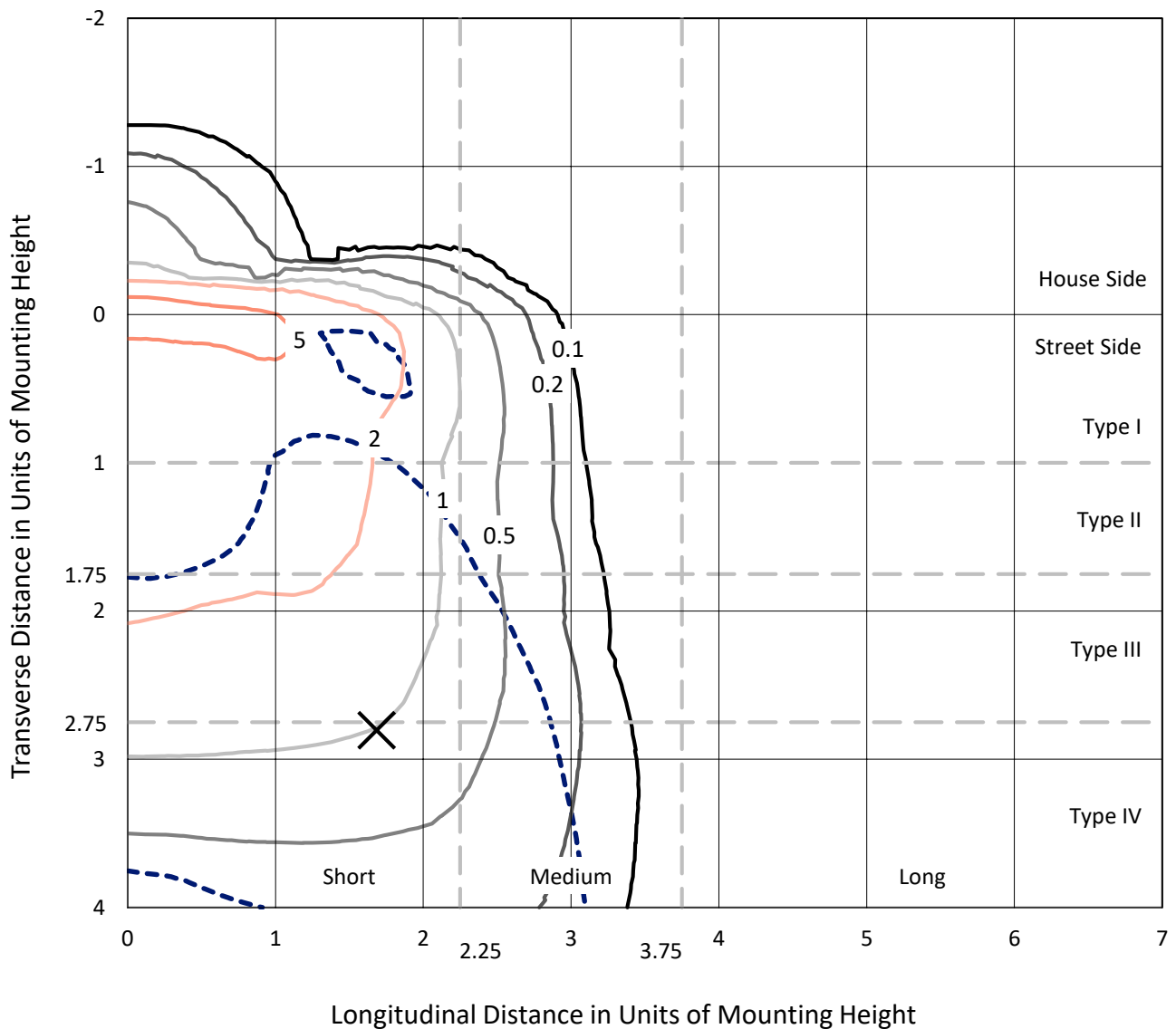
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

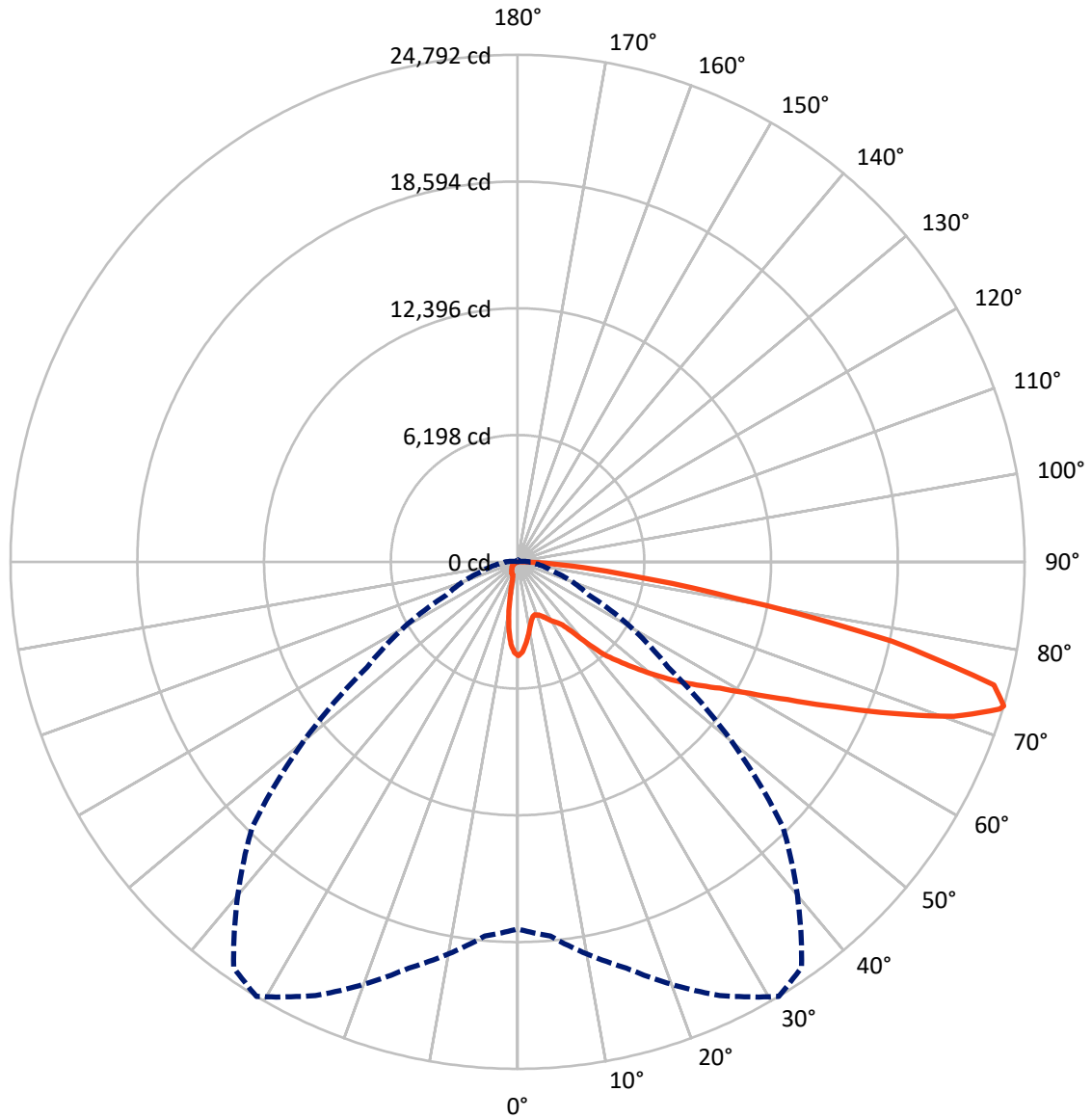
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2431.2 | 0.0 | 2431.2 |
| | % Fixture | 9.1 | 0.0 | 9.1 |
| Street Side | Lumens | 24239.8 | 0.0 | 24239.8 |
| | % Fixture | 90.9 | 0.0 | 90.9 |
| Total | Lumens | 26671.0 | 0.0 | 26671.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 380.5 | 1.4 |
| 10°-20° | 826.1 | 3.1 |
| 20°-30° | 1237.8 | 4.6 |
| 30°-40° | 1969.3 | 7.4 |
| 40°-50° | 3516.6 | 13.2 |
| 50°-60° | 5456.8 | 20.5 |
| 60°-70° | 7254.1 | 27.2 |
| 70°-80° | 5456.5 | 20.5 |
| 80°-90° | 573.4 | 2.1 |
| 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° | 26671.0 | 100.0 |
| 0°-180° | 26671.0 | 100.0 |

Coefficient of Utilization



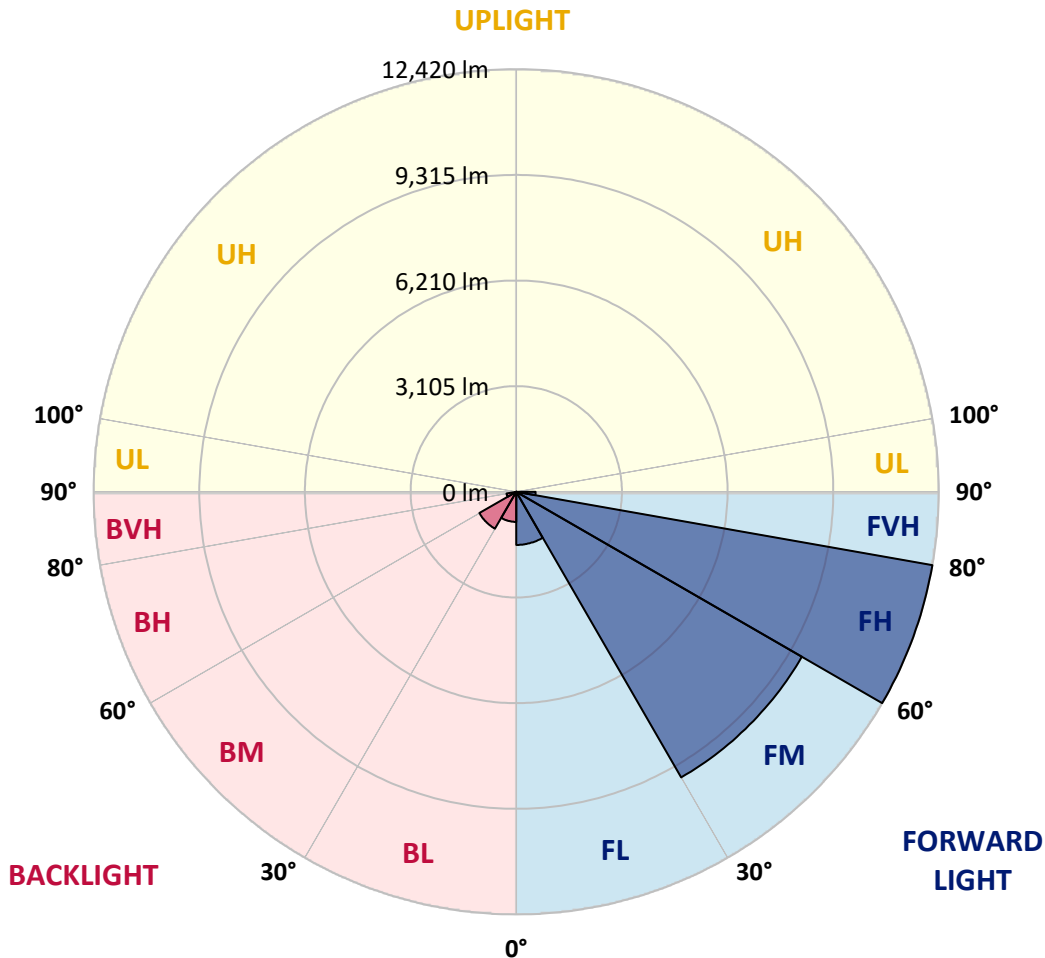
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1560.3 | 5.9 | | | |
| FM (30°-60°) | 9691.3 | 36.3 | | | |
| FH (60°-80°) | 12419.7 | 46.6 | | | G5 |
| FVH (80°-90°) | 568.5 | 2.1 | | | G4/750 |
| BL (0°-30°) | 884.1 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 1251.4 | 4.7 | B2/2500 | | |
| BH (60°-80°) | 290.9 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 31° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4588.8 | 4588.8 | 4588.8 | 4588.8 | 4588.8 | 4588.8 | 4588.8 | 4588.8 | 4588.8 | 4588.8 | 4588.8 |
| 2.5° | 4348.7 | 4366.9 | 4386.5 | 4390.4 | 4423.1 | 4424.4 | 4471.3 | 4506.6 | 4541.8 | 4575.7 | 4587.5 |
| 5° | 3902.3 | 3932.3 | 3967.6 | 4002.8 | 4072.0 | 4099.4 | 4214.2 | 4331.7 | 4443.9 | 4551.0 | 4603.2 |
| 7.5° | 3425.9 | 3459.9 | 3509.5 | 3596.9 | 3673.9 | 3727.4 | 3908.8 | 4117.7 | 4326.5 | 4523.5 | 4637.1 |
| 10° | 2991.3 | 3022.7 | 3074.9 | 3167.5 | 3286.3 | 3359.4 | 3603.4 | 3893.2 | 4199.9 | 4498.7 | 4688.0 |
| 12.5° | 2714.6 | 2731.6 | 2760.3 | 2859.5 | 2966.5 | 3048.8 | 3335.9 | 3694.8 | 4095.5 | 4497.4 | 4770.2 |
| 15° | 2663.7 | 2669.0 | 2645.5 | 2689.9 | 2773.4 | 2853.0 | 3144.0 | 3534.3 | 4015.9 | 4518.3 | 4877.2 |
| 17.5° | 2744.7 | 2742.1 | 2663.7 | 2658.5 | 2725.1 | 2790.3 | 3050.1 | 3423.3 | 3959.7 | 4566.6 | 5015.6 |
| 20° | 2867.3 | 2858.2 | 2722.5 | 2697.7 | 2768.2 | 2829.5 | 3043.5 | 3381.6 | 3938.9 | 4647.5 | 5183.9 |
| 22.5° | 3030.5 | 3014.8 | 2802.1 | 2776.0 | 2851.7 | 2915.6 | 3124.5 | 3422.0 | 3957.1 | 4755.9 | 5379.7 |
| 25° | 3232.8 | 3209.3 | 2939.1 | 2910.4 | 2987.4 | 3051.4 | 3269.3 | 3538.2 | 4011.9 | 4887.7 | 5627.7 |
| 27.5° | 3461.2 | 3427.2 | 3158.4 | 3084.0 | 3171.4 | 3238.0 | 3462.5 | 3715.7 | 4098.1 | 5027.3 | 5931.8 |
| 30° | 3676.5 | 3632.1 | 3389.4 | 3266.7 | 3373.7 | 3448.1 | 3671.3 | 3927.1 | 4236.4 | 5242.7 | 6348.1 |
| 32.5° | 3893.2 | 3843.6 | 3595.6 | 3449.4 | 3546.0 | 3626.9 | 3886.6 | 4218.1 | 4496.1 | 5571.6 | 6901.5 |
| 35° | 4391.7 | 4339.5 | 4035.4 | 3794.0 | 3792.7 | 3838.4 | 4188.1 | 4616.2 | 4839.4 | 6029.7 | 7561.9 |
| 37.5° | 5230.9 | 5200.9 | 4911.2 | 4453.1 | 4330.4 | 4279.5 | 4599.2 | 5091.3 | 5332.7 | 6660.0 | 8307.1 |
| 40° | 6149.7 | 6123.6 | 5798.6 | 5383.6 | 5197.0 | 5071.7 | 5189.2 | 5753.0 | 6029.7 | 7430.0 | 9068.0 |
| 42.5° | 7187.3 | 7063.3 | 6483.8 | 6359.8 | 6192.8 | 6097.5 | 5991.8 | 6568.7 | 6885.8 | 8267.9 | 9822.3 |
| 45° | 8129.6 | 7920.8 | 7169.0 | 6981.1 | 6943.2 | 6966.7 | 7025.5 | 7665.0 | 7849.0 | 9263.7 | 10574.1 |
| 47.5° | 8690.8 | 8526.3 | 7949.5 | 7769.4 | 7758.9 | 7914.2 | 8358.0 | 8903.5 | 8808.3 | 10131.6 | 11235.8 |
| 50° | 9224.6 | 9075.8 | 8596.8 | 8641.2 | 8689.5 | 8900.9 | 9870.6 | 10177.3 | 9684.0 | 10918.6 | 11842.7 |
| 52.5° | 9656.6 | 9429.5 | 9178.9 | 9428.2 | 9665.7 | 10006.4 | 11431.5 | 11320.6 | 10305.2 | 11545.1 | 12362.1 |
| 55° | 9905.9 | 9802.8 | 9924.1 | 10174.7 | 10621.1 | 11174.4 | 12905.0 | 12272.0 | 10759.4 | 12116.7 | 12707.9 |
| 57.5° | 10819.4 | 10617.1 | 10858.6 | 11075.2 | 11657.3 | 12431.3 | 14167.1 | 12980.7 | 11087.0 | 12470.4 | 12787.6 |
| 60° | 11924.9 | 11761.7 | 11904.0 | 12264.2 | 13049.9 | 13959.6 | 15346.9 | 13558.9 | 11258.0 | 12697.5 | 12581.4 |
| 62.5° | 13684.2 | 13468.8 | 13380.1 | 13783.4 | 14824.9 | 15818.0 | 16242.2 | 13959.6 | 11220.1 | 12597.0 | 11874.0 |
| 65° | 16041.2 | 15818.0 | 15421.3 | 15786.7 | 17111.4 | 17812.3 | 17243.2 | 14044.4 | 10959.1 | 11783.9 | 10086.0 |
| 67.5° | 18455.7 | 18293.9 | 17954.5 | 18570.5 | 19766.0 | 19991.8 | 18301.7 | 13838.2 | 10118.6 | 9554.8 | 7126.0 |
| 70° | 20050.6 | 19981.4 | 20201.9 | 21564.5 | 22630.8 | 22565.5 | 19272.7 | 12730.1 | 7886.8 | 5875.6 | 3525.1 |
| 72.5° | 18900.7 | 19232.2 | 20861.0 | 23331.6 | 24634.1 | 24101.6 | 18774.1 | 9775.3 | 4507.9 | 2260.5 | 1019.3 |
| 73° | 17948.0 | 18372.2 | 20564.8 | 23398.2 | 24792.1 | 24208.7 | 18355.2 | 8972.7 | 3842.3 | 1784.1 | 772.6 |
| 75° | 12486.1 | 13006.8 | 17025.3 | 21791.6 | 24053.4 | 23065.4 | 15299.9 | 5491.9 | 1780.2 | 790.9 | 311.9 |
| 77.5° | 6062.3 | 6447.3 | 9374.7 | 15745.0 | 18706.3 | 18021.1 | 9524.8 | 2046.4 | 804.0 | 494.6 | 143.6 |
| 80° | 2263.1 | 2516.3 | 4069.4 | 8013.4 | 10810.3 | 11093.5 | 4189.4 | 773.9 | 535.1 | 398.1 | 73.1 |
| 82.5° | 592.5 | 660.4 | 1500.9 | 3573.4 | 5540.2 | 5798.6 | 1320.8 | 390.2 | 391.5 | 327.6 | 44.4 |
| 85° | 189.2 | 216.6 | 468.5 | 1604.0 | 2610.2 | 2291.8 | 344.6 | 189.2 | 284.5 | 244.1 | 24.8 |
| 87.5° | 23.5 | 30.0 | 148.8 | 377.2 | 575.6 | 319.8 | 53.5 | 56.1 | 121.4 | 135.7 | 14.4 |
| 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° | 4588.8 | 4588.8 | 4588.8 | 4588.8 | 4588.8 | 4588.8 | 4588.8 | 4588.8 | 4588.8 | 4588.8 | 4588.8 |
| 2.5° | 4599.2 | 4592.7 | 4594.0 | 4560.1 | 4537.9 | 4493.5 | 4447.8 | 4427.0 | 4404.8 | 4395.6 | 4404.8 |
| 5° | 4622.7 | 4611.0 | 4577.1 | 4472.6 | 4361.7 | 4218.1 | 4083.7 | 3981.9 | 3854.0 | 3818.8 | 3855.3 |
| 7.5° | 4659.3 | 4635.8 | 4536.6 | 4323.9 | 4077.2 | 3803.1 | 3495.1 | 3270.6 | 3086.6 | 2967.8 | 3010.9 |
| 10° | 4712.8 | 4668.4 | 4468.7 | 4107.2 | 3666.1 | 3180.6 | 2743.4 | 2402.7 | 2161.3 | 2062.1 | 2058.2 |
| 12.5° | 4802.8 | 4719.3 | 4385.2 | 3825.3 | 3163.6 | 2516.3 | 1943.3 | 1574.0 | 1378.2 | 1251.6 | 1249.0 |
| 15° | 4902.0 | 4779.3 | 4279.5 | 3487.3 | 2578.9 | 1802.4 | 1251.6 | 971.0 | 844.4 | 804.0 | 798.7 |
| 17.5° | 5023.4 | 4848.5 | 4142.4 | 3070.9 | 1966.8 | 1194.2 | 817.0 | 736.1 | 730.9 | 727.0 | 727.0 |
| 20° | 5176.1 | 4930.7 | 3966.3 | 2594.6 | 1395.2 | 797.4 | 694.3 | 699.5 | 702.2 | 696.9 | 698.2 |
| 22.5° | 5353.6 | 5014.3 | 3756.1 | 2083.0 | 943.6 | 666.9 | 664.3 | 670.8 | 673.4 | 670.8 | 672.1 |
| 25° | 5559.8 | 5110.8 | 3500.3 | 1546.6 | 681.3 | 633.0 | 639.5 | 648.6 | 655.2 | 655.2 | 655.2 |
| 27.5° | 5815.6 | 5228.3 | 3192.3 | 1079.3 | 588.6 | 597.7 | 616.0 | 633.0 | 642.1 | 644.7 | 644.7 |
| 30° | 6148.4 | 5374.5 | 2823.0 | 740.0 | 535.1 | 550.8 | 584.7 | 617.3 | 634.3 | 636.9 | 638.2 |
| 32.5° | 6568.7 | 5538.9 | 2394.9 | 546.8 | 489.4 | 501.2 | 537.7 | 592.5 | 625.2 | 630.4 | 630.4 |
| 35° | 7050.3 | 5729.5 | 1934.2 | 476.4 | 456.8 | 460.7 | 489.4 | 552.1 | 609.5 | 623.8 | 625.2 |
| 37.5° | 7577.5 | 5917.4 | 1470.9 | 445.0 | 429.4 | 429.4 | 450.3 | 503.8 | 571.6 | 616.0 | 621.2 |
| 40° | 8069.6 | 6031.0 | 1031.0 | 420.2 | 404.6 | 404.6 | 422.9 | 462.0 | 526.0 | 592.5 | 606.9 |
| 42.5° | 8523.7 | 6070.1 | 717.8 | 396.8 | 381.1 | 385.0 | 400.7 | 432.0 | 480.3 | 546.8 | 559.9 |
| 45° | 8991.0 | 6063.6 | 523.4 | 369.3 | 357.6 | 369.3 | 381.1 | 404.6 | 439.8 | 477.7 | 480.3 |
| 47.5° | 9343.4 | 6008.8 | 415.0 | 343.2 | 335.4 | 351.1 | 361.5 | 377.2 | 396.8 | 394.1 | 394.1 |
| 50° | 9673.5 | 5875.6 | 334.1 | 308.0 | 313.2 | 331.5 | 336.7 | 341.9 | 343.2 | 318.4 | 315.8 |
| 52.5° | 9924.1 | 5668.1 | 267.5 | 270.2 | 291.0 | 309.3 | 304.1 | 296.3 | 283.2 | 253.2 | 248.0 |
| 55° | 10007.7 | 5268.8 | 210.1 | 223.2 | 258.4 | 281.9 | 262.3 | 245.4 | 220.6 | 195.8 | 190.5 |
| 57.5° | 9856.3 | 4753.2 | 171.0 | 173.6 | 218.0 | 237.5 | 215.3 | 195.8 | 168.4 | 147.5 | 143.6 |
| 60° | 9535.2 | 4180.3 | 141.0 | 130.5 | 168.4 | 185.3 | 171.0 | 151.4 | 126.6 | 110.9 | 109.6 |
| 62.5° | 8898.3 | 3569.5 | 116.2 | 101.8 | 127.9 | 142.3 | 133.1 | 118.8 | 97.9 | 87.4 | 86.1 |
| 65° | 7559.3 | 2855.6 | 94.0 | 82.2 | 99.2 | 110.9 | 103.1 | 92.7 | 77.0 | 69.2 | 67.9 |
| 67.5° | 5276.6 | 1930.3 | 77.0 | 67.9 | 78.3 | 87.4 | 80.9 | 75.7 | 61.3 | 60.0 | 61.3 |
| 70° | 2545.0 | 930.6 | 64.0 | 54.8 | 61.3 | 67.9 | 65.3 | 61.3 | 58.7 | 67.9 | 78.3 |
| 72.5° | 729.6 | 311.9 | 50.9 | 45.7 | 49.6 | 53.5 | 56.1 | 54.8 | 64.0 | 82.2 | 95.3 |
| 73° | 561.2 | 251.9 | 48.3 | 43.1 | 47.0 | 52.2 | 54.8 | 53.5 | 65.3 | 83.5 | 95.3 |
| 75° | 240.1 | 121.4 | 36.5 | 35.2 | 39.2 | 45.7 | 48.3 | 48.3 | 65.3 | 84.8 | 91.4 |
| 77.5° | 108.3 | 65.3 | 23.5 | 27.4 | 33.9 | 36.5 | 40.5 | 40.5 | 52.2 | 65.3 | 65.3 |
| 80° | 61.3 | 35.2 | 18.3 | 20.9 | 24.8 | 24.8 | 24.8 | 22.2 | 23.5 | 26.1 | 28.7 |
| 82.5° | 39.2 | 23.5 | 14.4 | 17.0 | 15.7 | 13.1 | 10.4 | 10.4 | 9.1 | 10.4 | 13.1 |
| 85° | 22.2 | 13.1 | 13.1 | 10.4 | 6.5 | 5.2 | 6.5 | 5.2 | 1.3 | 0.0 | 1.3 |
| 87.5° | 13.1 | 7.8 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)