

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: STREETWORKS

Report Number: P455942

Luminaire Tested: **GLAN-SA7A-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7A-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20820 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

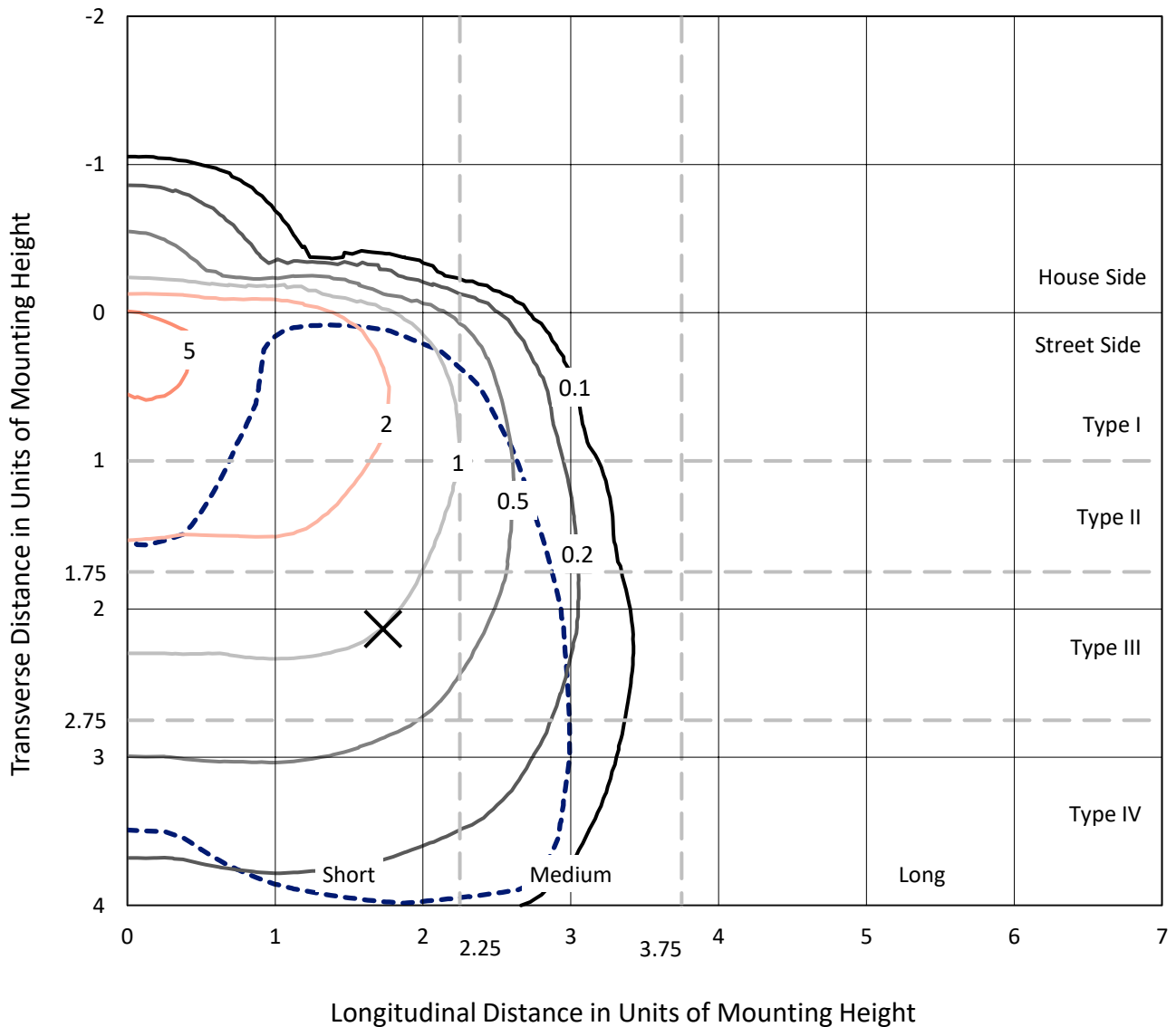
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

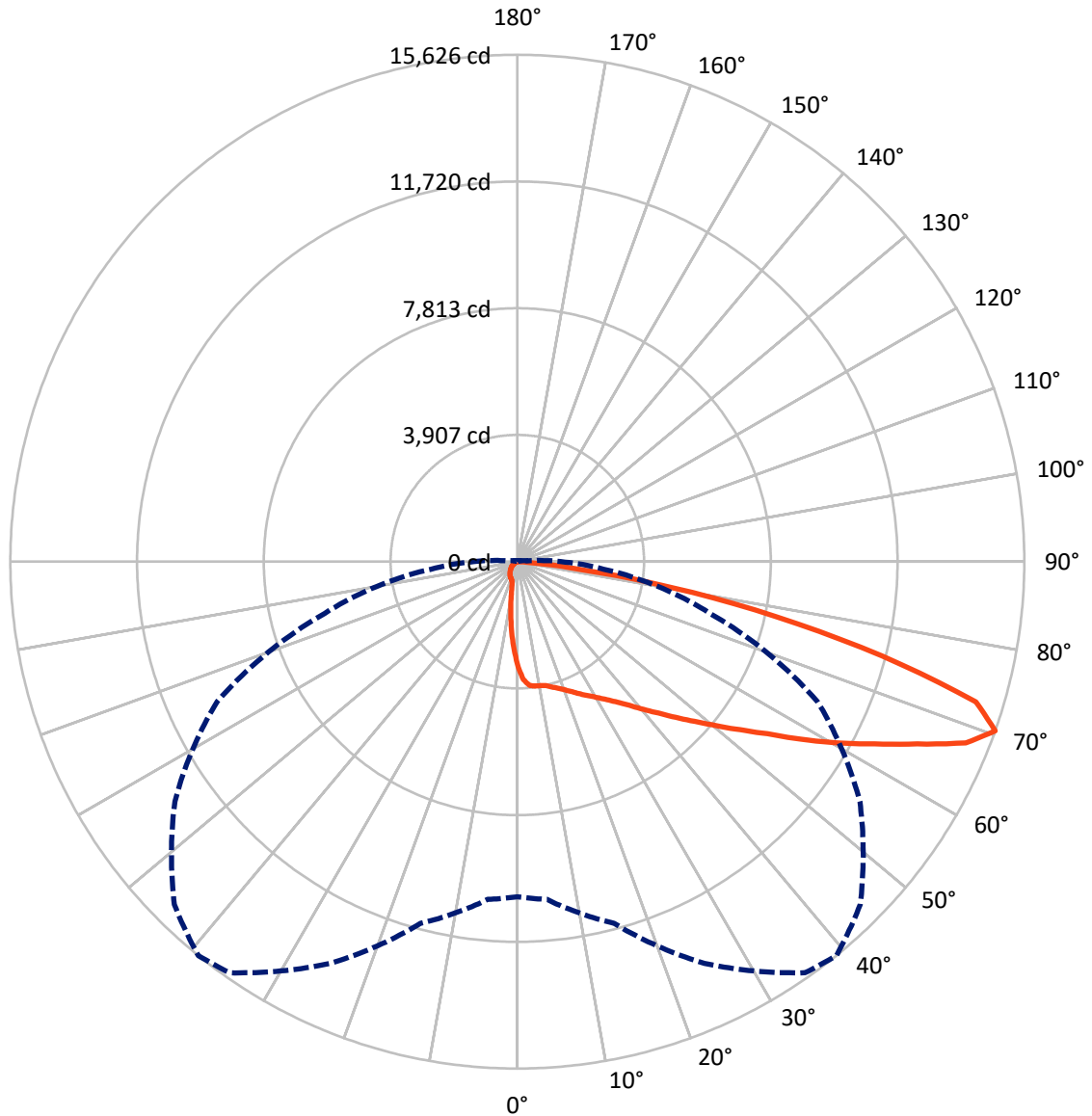
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

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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 | 1357.6 | 0.0 | 1357.6 |
| | % Fixture | 6.5 | 0.0 | 6.5 |
| Street Side | Lumens | 19462.4 | 0.0 | 19462.4 |
| | % Fixture | 93.5 | 0.0 | 93.5 |
| Total | Lumens | 20820.0 | 0.0 | 20820.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 277.1 | 1.3 |
| 10°-20° | 720.1 | 3.5 |
| 20°-30° | 1206.3 | 5.8 |
| 30°-40° | 1870.8 | 9.0 |
| 40°-50° | 2964.7 | 14.2 |
| 50°-60° | 4345.8 | 20.9 |
| 60°-70° | 5570.3 | 26.8 |
| 70°-80° | 3500.2 | 16.8 |
| 80°-90° | 364.6 | 1.8 |
| 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° | 20820.0 | 100.0 |
| 0°-180° | 20820.0 | 100.0 |



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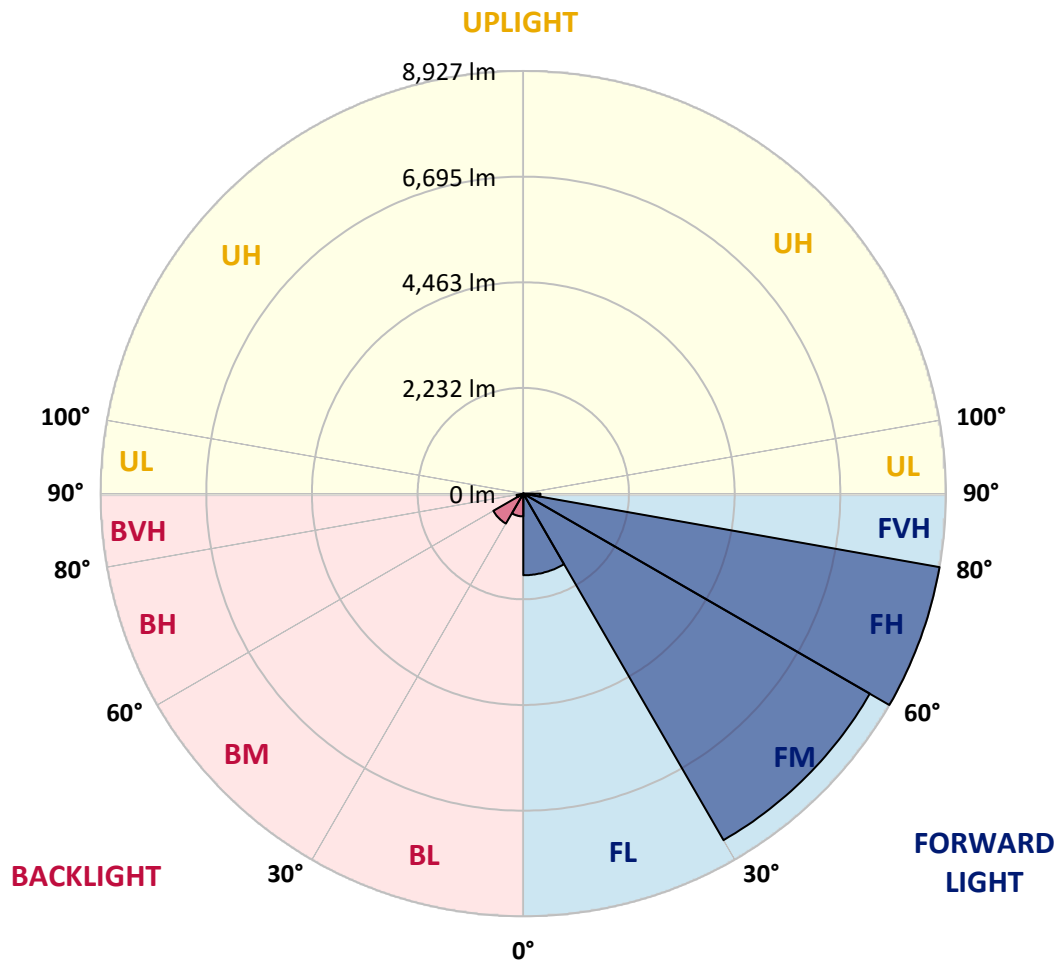
CATALOG NUMBER: GLAN-SA7A-830-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1722.7 | 8.3 | | | |
| FM (30°-60°) | 8450.8 | 40.6 | | | |
| FH (60°-80°) | 8926.9 | 42.9 | | | G4/12000 |
| FVH (80°-90°) | 362.0 | 1.7 | | | G3/500 |
| BL (0°-30°) | 480.7 | 2.3 | B1/500 | | |
| BM (30°-60°) | 730.6 | 3.5 | B1/1000 | | |
| BH (60°-80°) | 143.6 | 0.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.7 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 3248.6 | 3248.6 | 3248.6 | 3248.6 | 3248.6 | 3248.6 | 3248.6 | 3248.6 | 3248.6 | 3248.6 | 3248.6 |
| 2.5° | 3753.7 | 3741.1 | 3724.3 | 3704.7 | 3648.8 | 3639.0 | 3605.4 | 3534.0 | 3448.7 | 3378.7 | 3282.2 |
| 5° | 3931.4 | 3938.4 | 3925.8 | 3890.8 | 3850.2 | 3826.4 | 3784.5 | 3674.0 | 3563.4 | 3422.1 | 3264.0 |
| 7.5° | 3972.0 | 3985.9 | 3970.6 | 3937.0 | 3897.8 | 3872.6 | 3839.0 | 3743.9 | 3615.2 | 3454.3 | 3237.4 |
| 10° | 3967.8 | 3984.5 | 3974.8 | 3944.0 | 3911.8 | 3888.0 | 3851.6 | 3776.1 | 3672.6 | 3503.3 | 3245.8 |
| 12.5° | 3960.8 | 3983.1 | 3981.7 | 3966.4 | 3939.8 | 3921.6 | 3899.2 | 3832.0 | 3735.5 | 3574.6 | 3292.0 |
| 15° | 3941.2 | 3969.2 | 3994.3 | 4006.9 | 4008.3 | 4008.3 | 3980.3 | 3909.0 | 3816.7 | 3668.4 | 3352.2 |
| 17.5° | 3949.6 | 3981.7 | 4044.7 | 4081.1 | 4106.3 | 4103.5 | 4074.1 | 3997.1 | 3895.0 | 3764.9 | 3415.1 |
| 20° | 4001.3 | 4044.7 | 4132.8 | 4205.6 | 4230.8 | 4222.4 | 4183.2 | 4093.7 | 3977.5 | 3847.4 | 3476.7 |
| 22.5° | 4128.6 | 4167.8 | 4278.3 | 4363.7 | 4381.9 | 4359.5 | 4303.5 | 4181.8 | 4076.9 | 3937.0 | 3550.8 |
| 25° | 4318.9 | 4365.1 | 4467.2 | 4531.6 | 4531.6 | 4519.0 | 4440.6 | 4297.9 | 4188.8 | 4061.5 | 3647.4 |
| 27.5° | 4549.8 | 4588.9 | 4689.7 | 4747.0 | 4713.5 | 4677.1 | 4598.7 | 4426.6 | 4321.7 | 4218.2 | 3763.5 |
| 30° | 4783.4 | 4808.6 | 4914.9 | 4940.1 | 4905.1 | 4859.0 | 4775.0 | 4602.9 | 4510.6 | 4430.8 | 3931.4 |
| 32.5° | 5004.5 | 5059.0 | 5147.2 | 5141.6 | 5094.0 | 5071.6 | 4994.7 | 4811.4 | 4759.6 | 4751.2 | 4166.4 |
| 35° | 5225.5 | 5267.5 | 5345.8 | 5365.4 | 5323.5 | 5319.3 | 5263.3 | 5127.6 | 5129.0 | 5183.5 | 4533.0 |
| 37.5° | 5415.8 | 5453.6 | 5545.9 | 5589.3 | 5597.7 | 5618.7 | 5596.3 | 5506.7 | 5634.0 | 5783.7 | 5018.5 |
| 40° | 5575.3 | 5628.4 | 5746.0 | 5821.5 | 5908.3 | 5985.2 | 5989.4 | 6009.0 | 6265.0 | 6522.5 | 5652.2 |
| 42.5° | 5699.8 | 5774.0 | 5944.6 | 6084.5 | 6283.2 | 6381.1 | 6459.5 | 6567.2 | 6998.1 | 7382.9 | 6399.3 |
| 45° | 5862.1 | 5947.4 | 6160.1 | 6379.7 | 6690.3 | 6851.2 | 6960.4 | 7248.6 | 7860.0 | 8384.6 | 7166.0 |
| 47.5° | 6130.7 | 6175.5 | 6392.3 | 6712.7 | 7121.3 | 7350.7 | 7563.4 | 7999.9 | 8784.7 | 9254.8 | 7804.0 |
| 50° | 6476.3 | 6505.7 | 6669.4 | 7114.3 | 7643.1 | 7945.3 | 8332.8 | 8846.3 | 9744.5 | 9976.7 | 8165.0 |
| 52.5° | 6858.2 | 6868.0 | 6991.1 | 7556.4 | 8227.9 | 8608.5 | 9042.2 | 9675.9 | 10526.6 | 10491.6 | 8404.2 |
| 55° | 7301.7 | 7287.7 | 7392.7 | 8036.2 | 8920.5 | 9355.6 | 9860.6 | 10525.2 | 11205.1 | 10856.8 | 8541.3 |
| 57.5° | 7809.6 | 7771.8 | 7874.0 | 8672.8 | 9807.5 | 10327.9 | 10841.4 | 11258.3 | 11731.2 | 11163.2 | 8607.1 |
| 60° | 8341.2 | 8265.7 | 8387.4 | 9387.7 | 10852.6 | 11346.4 | 11773.2 | 11885.1 | 12285.2 | 11406.6 | 8493.7 |
| 62.5° | 8765.2 | 8766.6 | 8993.2 | 10148.8 | 11927.0 | 12359.4 | 12586.0 | 12686.7 | 12762.3 | 11353.4 | 7897.7 |
| 65° | 9426.9 | 9449.3 | 9811.7 | 11205.1 | 13170.8 | 13545.8 | 13701.1 | 13373.7 | 12783.3 | 10693.1 | 7002.3 |
| 67.5° | 10109.7 | 10181.0 | 10844.2 | 12660.2 | 14607.7 | 14909.9 | 14709.8 | 13506.6 | 12212.5 | 9186.3 | 5309.5 |
| 70° | 10332.1 | 10449.6 | 11542.3 | 13661.9 | 15469.5 | 15626.2 | 14949.0 | 12886.8 | 10209.0 | 6141.9 | 2672.2 |
| 72.5° | 9467.5 | 9657.8 | 11140.8 | 13296.7 | 14919.7 | 14783.9 | 13375.1 | 10807.8 | 6490.3 | 2332.2 | 815.7 |
| 75° | 6676.3 | 6760.3 | 9259.0 | 11030.2 | 11999.8 | 11615.1 | 10174.0 | 6967.4 | 2669.4 | 654.8 | 279.8 |
| 77.5° | 3447.3 | 3406.7 | 5506.7 | 7318.5 | 8558.1 | 8159.4 | 6662.4 | 3606.8 | 1011.5 | 272.8 | 173.5 |
| 80° | 1782.4 | 1811.8 | 2382.6 | 3834.8 | 5224.1 | 4807.2 | 3552.2 | 1671.9 | 538.6 | 151.1 | 132.9 |
| 82.5° | 998.9 | 937.4 | 1369.7 | 1674.7 | 2442.8 | 1915.3 | 1362.7 | 1183.6 | 235.0 | 90.9 | 125.9 |
| 85° | 181.9 | 190.3 | 751.3 | 905.2 | 847.8 | 538.6 | 439.3 | 790.5 | 68.6 | 50.4 | 88.1 |
| 87.5° | 2.8 | 2.8 | 145.5 | 260.2 | 165.1 | 75.5 | 138.5 | 113.3 | 14.0 | 19.6 | 15.4 |
| 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° | 3248.6 | 3248.6 | 3248.6 | 3248.6 | 3248.6 | 3248.6 | 3248.6 | 3248.6 | 3248.6 | 3248.6 | 3248.6 |
| 2.5° | 3233.2 | 3180.1 | 3080.7 | 2982.8 | 2858.3 | 2756.2 | 2687.6 | 2616.3 | 2543.5 | 2549.1 | 2565.9 |
| 5° | 3177.3 | 3084.9 | 2889.1 | 2682.0 | 2483.3 | 2304.3 | 2128.0 | 1969.9 | 1905.5 | 1846.8 | 1849.6 |
| 7.5° | 3121.3 | 2991.2 | 2704.4 | 2379.8 | 2079.0 | 1774.0 | 1553.0 | 1371.1 | 1274.6 | 1201.8 | 1180.8 |
| 10° | 3096.1 | 2924.1 | 2535.1 | 2088.8 | 1662.1 | 1329.1 | 1045.1 | 896.8 | 782.1 | 745.7 | 755.5 |
| 12.5° | 3107.3 | 2890.5 | 2382.6 | 1825.8 | 1317.9 | 926.2 | 727.5 | 652.0 | 626.8 | 622.6 | 619.8 |
| 15° | 3128.3 | 2866.7 | 2232.9 | 1534.8 | 968.2 | 688.3 | 611.4 | 597.4 | 594.6 | 591.8 | 593.2 |
| 17.5° | 3156.3 | 2845.7 | 2073.4 | 1262.0 | 742.9 | 601.6 | 579.2 | 572.2 | 570.8 | 570.8 | 570.8 |
| 20° | 3184.3 | 2821.9 | 1895.7 | 1018.5 | 619.8 | 568.0 | 554.0 | 549.8 | 548.4 | 548.4 | 547.0 |
| 22.5° | 3216.5 | 2800.9 | 1715.3 | 800.3 | 570.8 | 544.2 | 531.6 | 528.8 | 527.4 | 526.0 | 526.0 |
| 25° | 3262.6 | 2774.4 | 1523.6 | 654.8 | 540.0 | 521.9 | 509.3 | 506.5 | 505.1 | 499.5 | 500.9 |
| 27.5° | 3324.2 | 2754.8 | 1326.3 | 565.2 | 512.1 | 493.9 | 485.5 | 481.3 | 478.5 | 474.3 | 475.7 |
| 30° | 3408.1 | 2738.0 | 1116.5 | 516.3 | 479.9 | 464.5 | 456.1 | 453.3 | 450.5 | 446.3 | 446.3 |
| 32.5° | 3553.6 | 2745.0 | 895.4 | 477.1 | 450.5 | 432.3 | 423.9 | 421.1 | 418.3 | 414.1 | 414.1 |
| 35° | 3771.9 | 2785.5 | 716.3 | 443.5 | 415.5 | 397.3 | 388.9 | 388.9 | 384.7 | 379.1 | 377.7 |
| 37.5° | 4128.6 | 2889.1 | 575.0 | 411.3 | 381.9 | 365.2 | 355.4 | 352.6 | 348.4 | 340.0 | 338.6 |
| 40° | 4549.8 | 3050.0 | 484.1 | 379.1 | 351.2 | 334.4 | 326.0 | 317.6 | 306.4 | 298.0 | 296.6 |
| 42.5° | 5078.6 | 3215.1 | 419.7 | 347.0 | 321.8 | 306.4 | 296.6 | 282.6 | 265.8 | 254.6 | 253.2 |
| 45° | 5629.8 | 3366.2 | 376.3 | 317.6 | 293.8 | 281.2 | 270.0 | 247.6 | 226.6 | 212.7 | 211.3 |
| 47.5° | 6041.2 | 3394.1 | 341.4 | 289.6 | 270.0 | 257.4 | 242.0 | 214.1 | 186.1 | 173.5 | 169.3 |
| 50° | 6235.6 | 3258.4 | 305.0 | 261.6 | 246.2 | 232.2 | 212.7 | 180.5 | 149.7 | 134.3 | 131.5 |
| 52.5° | 6304.2 | 3023.4 | 275.6 | 236.4 | 222.5 | 205.7 | 181.9 | 145.5 | 117.5 | 102.1 | 100.7 |
| 55° | 6276.2 | 2726.8 | 249.0 | 212.7 | 194.5 | 174.9 | 151.1 | 116.1 | 86.7 | 74.2 | 71.4 |
| 57.5° | 6129.3 | 2349.0 | 222.5 | 188.9 | 166.5 | 146.9 | 120.3 | 86.7 | 58.8 | 47.6 | 46.2 |
| 60° | 5733.4 | 1834.2 | 195.9 | 162.3 | 141.3 | 120.3 | 95.1 | 61.6 | 36.4 | 26.6 | 26.6 |
| 62.5° | 5064.6 | 1361.3 | 170.7 | 135.7 | 118.9 | 96.5 | 67.2 | 39.2 | 19.6 | 14.0 | 12.6 |
| 65° | 4232.2 | 1004.5 | 142.7 | 114.7 | 99.3 | 75.5 | 47.6 | 23.8 | 9.8 | 4.2 | 2.8 |
| 67.5° | 2953.4 | 619.8 | 118.9 | 93.7 | 81.1 | 54.6 | 29.4 | 9.8 | 4.2 | 0.0 | 0.0 |
| 70° | 1341.7 | 295.2 | 90.9 | 71.4 | 61.6 | 39.2 | 15.4 | 5.6 | 2.8 | 0.0 | 0.0 |
| 72.5° | 416.9 | 155.3 | 64.4 | 51.8 | 42.0 | 25.2 | 8.4 | 4.2 | 2.8 | 0.0 | 0.0 |
| 75° | 193.1 | 99.3 | 40.6 | 28.0 | 23.8 | 12.6 | 5.6 | 2.8 | 1.4 | 0.0 | 0.0 |
| 77.5° | 144.1 | 76.9 | 23.8 | 15.4 | 12.6 | 8.4 | 4.2 | 2.8 | 1.4 | 0.0 | 0.0 |
| 80° | 125.9 | 39.2 | 14.0 | 9.8 | 7.0 | 5.6 | 2.8 | 1.4 | 0.0 | 0.0 | 0.0 |
| 82.5° | 113.3 | 19.6 | 8.4 | 5.6 | 4.2 | 2.8 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 |
| 85° | 61.6 | 11.2 | 5.6 | 4.2 | 2.8 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 11.2 | 5.6 | 4.2 | 2.8 | 2.8 | 1.4 | 1.4 | 1.4 | 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)