

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: P455489

Luminaire Tested: **GLAN-SA6C-830-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6C-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24322 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

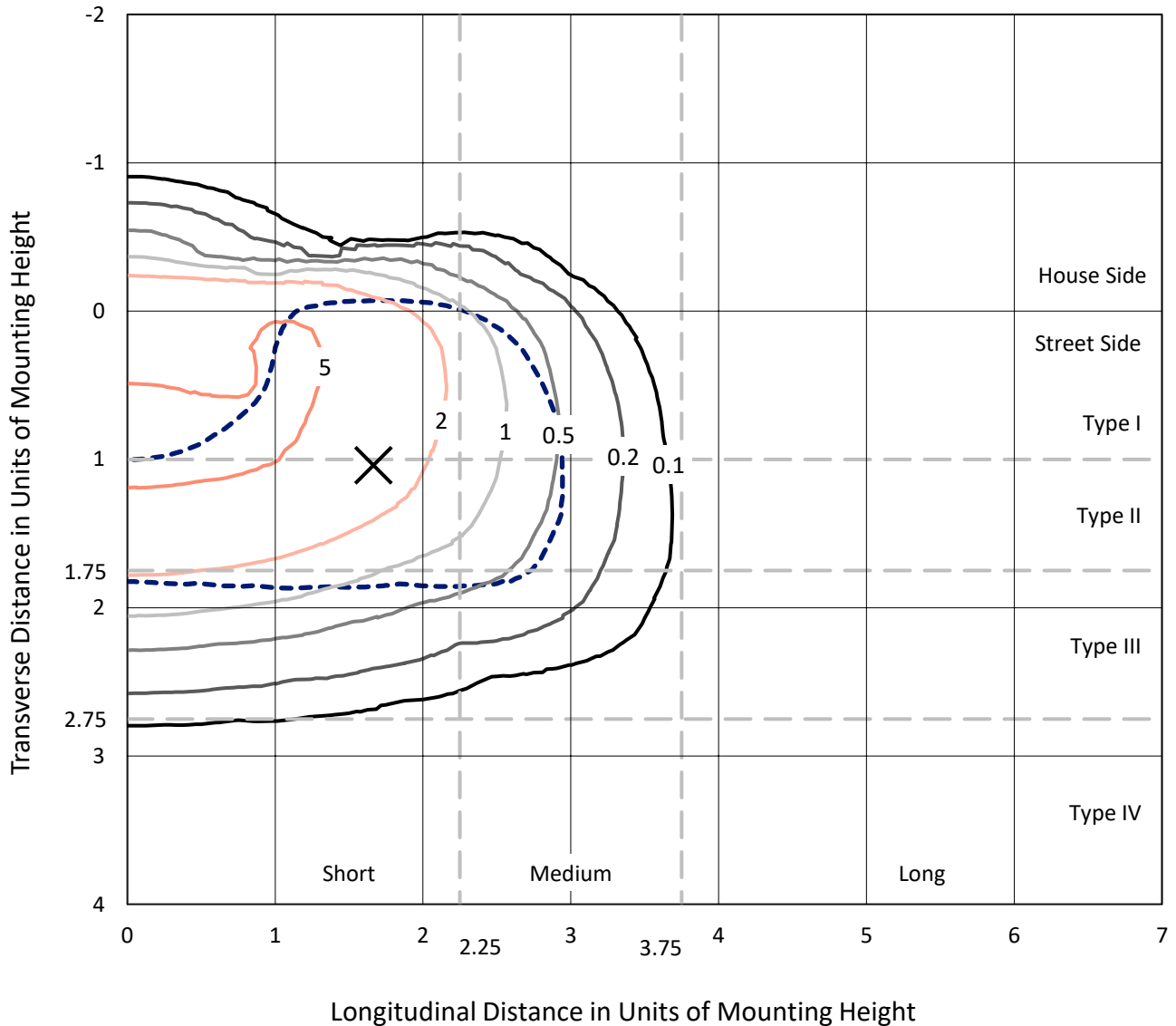
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

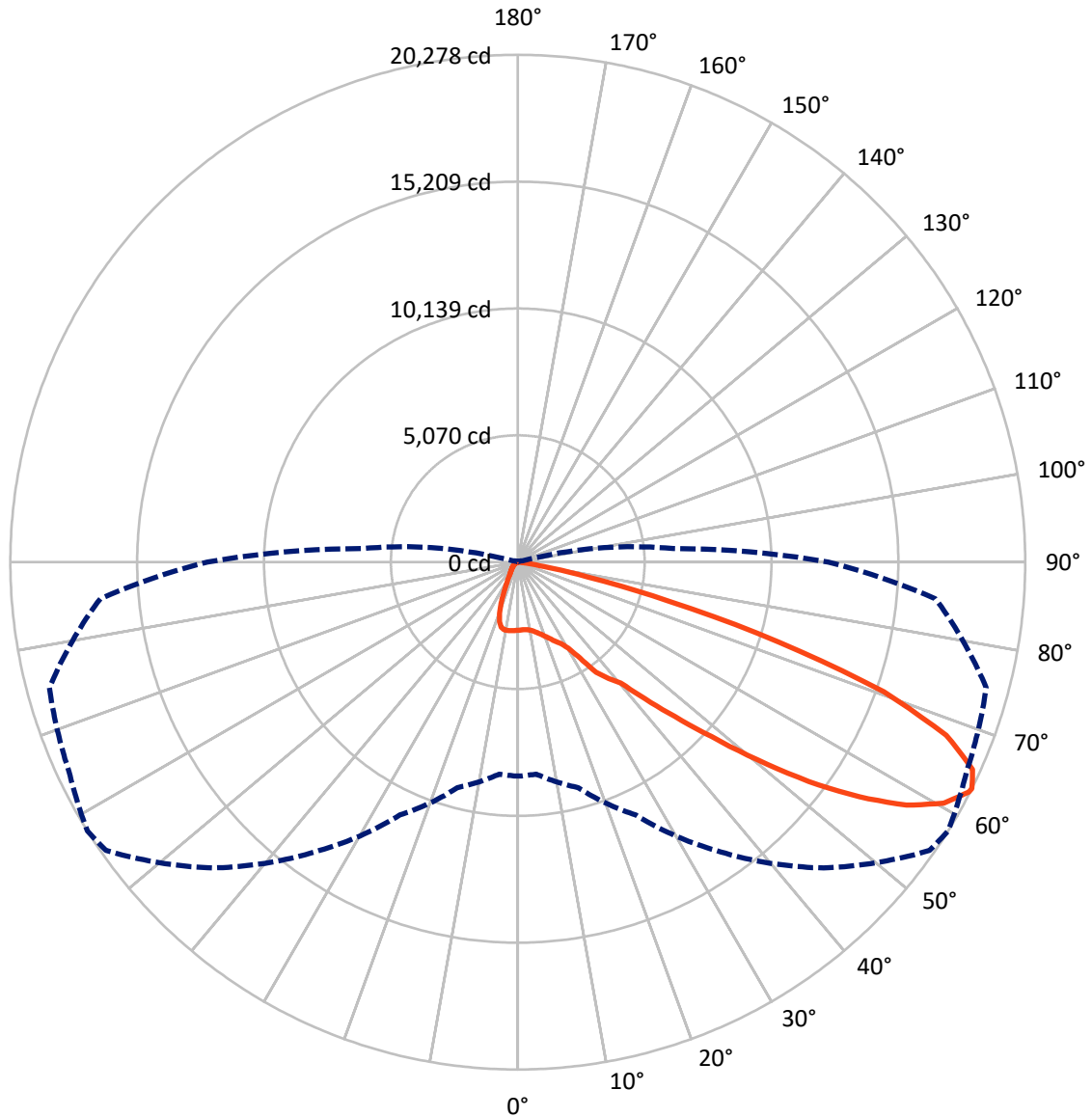
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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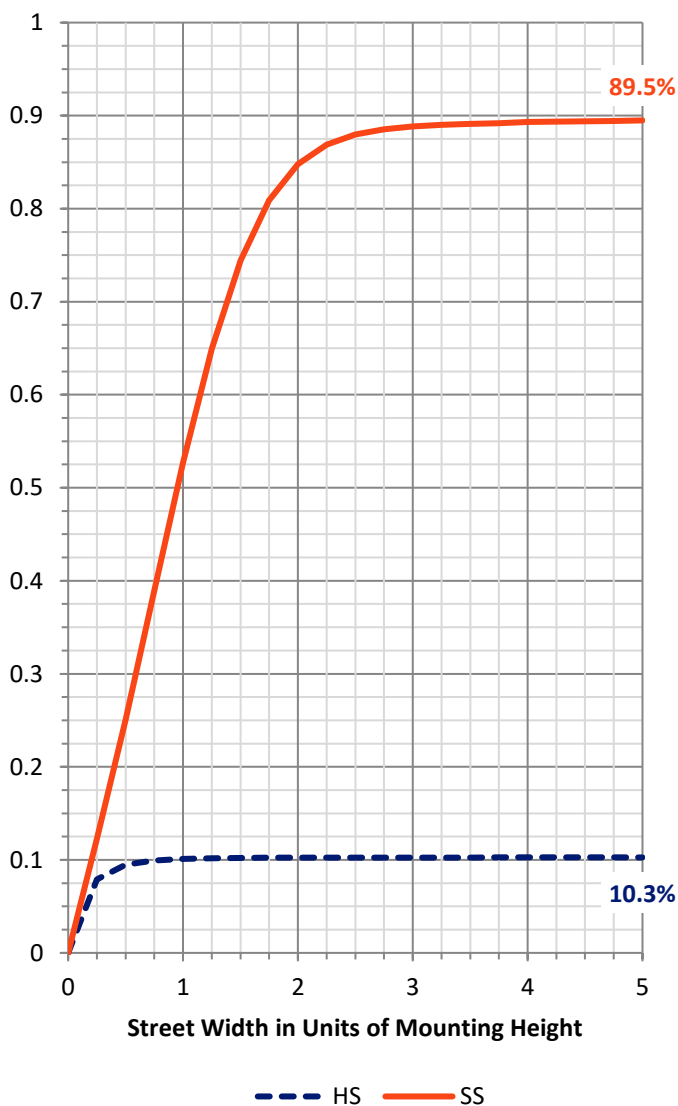
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2518.4 | 0.0 | 2518.4 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 21803.6 | 0.0 | 21803.6 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 24322.0 | 0.0 | 24322.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 254.9 | 1.0 |
| 10°-20° | 694.3 | 2.9 |
| 20°-30° | 1204.9 | 5.0 |
| 30°-40° | 2214.2 | 9.1 |
| 40°-50° | 4168.2 | 17.1 |
| 50°-60° | 7129.4 | 29.3 |
| 60°-70° | 6826.4 | 28.1 |
| 70°-80° | 1740.7 | 7.2 |
| 80°-90° | 89.0 | 0.4 |
| 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° | 24322.0 | 100.0 |
| 0°-180° | 24322.0 | 100.0 |

Coefficient of Utilization



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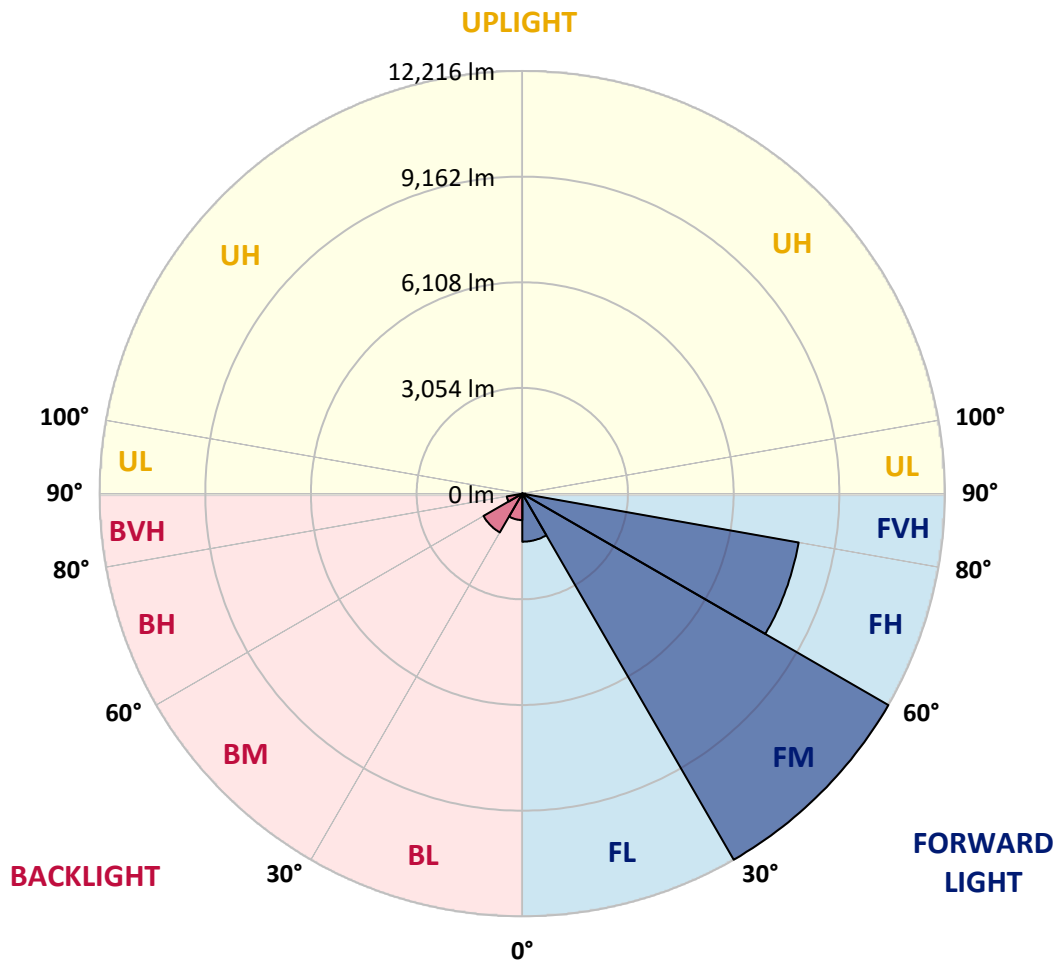
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1390.3 | 5.7 | | | |
| FM | (30°-60°) | 12216.5 | 50.2 | | | |
| FH | (60°-80°) | 8111.3 | 33.3 | | | G4/12000 |
| FVH | (80°-90°) | 85.6 | 0.4 | | | G1/100 |
| BL | (0°-30°) | 763.8 | 3.1 | B2/1000 | | |
| BM | (30°-60°) | 1295.3 | 5.3 | B2/2500 | | |
| BH | (60°-80°) | 455.9 | 1.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 3.4 | 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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2722.9 | 2722.9 | 2722.9 | 2722.9 | 2722.9 | 2722.9 | 2722.9 | 2722.9 | 2722.9 | 2722.9 | 2722.9 |
| 2.5° | 2655.2 | 2664.3 | 2673.5 | 2677.2 | 2690.0 | 2702.8 | 2712.0 | 2710.1 | 2724.8 | 2732.1 | 2732.1 |
| 5° | 2549.0 | 2549.0 | 2572.8 | 2594.8 | 2631.4 | 2668.0 | 2702.8 | 2710.1 | 2737.6 | 2763.2 | 2772.4 |
| 7.5° | 2459.3 | 2464.7 | 2483.1 | 2523.3 | 2572.8 | 2636.9 | 2706.5 | 2722.9 | 2770.6 | 2827.3 | 2851.1 |
| 10° | 2417.1 | 2420.8 | 2444.6 | 2486.7 | 2549.0 | 2636.9 | 2733.9 | 2765.1 | 2838.3 | 2928.0 | 2961.0 |
| 12.5° | 2408.0 | 2413.5 | 2437.3 | 2484.9 | 2556.3 | 2662.5 | 2794.4 | 2827.3 | 2933.5 | 3048.9 | 3098.3 |
| 15° | 2424.5 | 2428.1 | 2451.9 | 2503.2 | 2581.9 | 2708.3 | 2874.9 | 2920.7 | 3047.1 | 3180.7 | 3244.8 |
| 17.5° | 2483.1 | 2479.4 | 2495.9 | 2538.0 | 2625.9 | 2765.1 | 2972.0 | 3026.9 | 3175.2 | 3358.4 | 3400.5 |
| 20° | 2732.1 | 2708.3 | 2693.6 | 2657.0 | 2691.8 | 2845.6 | 3089.2 | 3169.7 | 3352.9 | 3539.6 | 3568.9 |
| 22.5° | 3268.6 | 3215.5 | 3111.1 | 2968.3 | 2858.4 | 2955.5 | 3230.2 | 3323.6 | 3559.8 | 3742.9 | 3742.9 |
| 25° | 3951.7 | 3883.9 | 3779.5 | 3468.2 | 3199.0 | 3136.8 | 3389.5 | 3506.7 | 3785.0 | 3970.0 | 3909.5 |
| 27.5° | 4806.8 | 4753.7 | 4550.4 | 4187.9 | 3775.9 | 3453.6 | 3574.4 | 3682.5 | 3984.6 | 4208.0 | 4081.7 |
| 30° | 5502.7 | 5477.0 | 5310.4 | 4986.3 | 4532.1 | 4061.5 | 3918.7 | 3990.1 | 4250.1 | 4508.3 | 4378.3 |
| 32.5° | 6090.5 | 6090.5 | 5920.2 | 5618.0 | 5193.2 | 4775.7 | 4502.8 | 4554.1 | 4803.1 | 5101.6 | 4859.9 |
| 35° | 6736.9 | 6714.9 | 6577.5 | 6290.1 | 5813.9 | 5445.9 | 5334.2 | 5403.8 | 5629.0 | 5850.6 | 5255.4 |
| 37.5° | 7416.2 | 7408.9 | 7266.1 | 6987.7 | 6599.5 | 6136.2 | 5874.4 | 5892.7 | 6008.1 | 6143.6 | 5718.7 |
| 40° | 8154.2 | 8165.2 | 7978.4 | 7806.3 | 7440.0 | 6965.8 | 6464.0 | 6348.6 | 6456.7 | 6839.4 | 6573.9 |
| 42.5° | 9025.8 | 9000.2 | 8919.6 | 8685.2 | 8390.4 | 8106.6 | 7504.1 | 7462.0 | 7557.2 | 7967.4 | 7679.9 |
| 45° | 10038.4 | 10075.1 | 9935.9 | 9805.9 | 9608.1 | 9371.9 | 8868.3 | 8795.1 | 8899.5 | 9536.7 | 9128.4 |
| 47.5° | 11052.9 | 11018.1 | 11107.8 | 11084.0 | 11190.2 | 11014.5 | 10569.5 | 10419.3 | 10670.2 | 11274.5 | 10673.9 |
| 50° | 11825.7 | 11864.1 | 12050.9 | 12323.7 | 12779.7 | 12878.6 | 12451.9 | 12400.6 | 12512.3 | 12900.6 | 12056.4 |
| 52.5° | 12327.4 | 12455.6 | 12748.6 | 13449.9 | 14272.1 | 14911.2 | 14587.1 | 14559.6 | 14513.8 | 14618.2 | 13378.5 |
| 55° | 12655.2 | 12785.2 | 13167.9 | 14200.7 | 15616.2 | 16654.4 | 16670.9 | 16553.7 | 16251.6 | 16176.5 | 14614.5 |
| 57.5° | 12453.8 | 12479.4 | 13025.1 | 14405.8 | 16361.5 | 17897.8 | 18436.2 | 18319.0 | 17760.5 | 17476.6 | 15705.9 |
| 60° | 11193.9 | 11247.0 | 12006.9 | 13629.4 | 16037.3 | 18304.3 | 19606.3 | 19553.2 | 18941.6 | 18621.1 | 16555.6 |
| 62.5° | 8961.7 | 9115.5 | 9897.4 | 11706.6 | 14530.3 | 17619.5 | 20080.6 | 20230.7 | 19754.6 | 19313.3 | 16822.9 |
| 63° | 8551.5 | 8502.1 | 9328.0 | 11146.3 | 14131.1 | 17280.7 | 20087.9 | 20278.3 | 19791.2 | 19379.2 | 16749.7 |
| 65° | 6330.3 | 6478.7 | 7015.2 | 8789.6 | 11759.7 | 15704.1 | 19635.6 | 19972.5 | 19655.7 | 19088.1 | 15938.5 |
| 67.5° | 3554.3 | 3547.0 | 4140.3 | 5751.7 | 8231.1 | 12318.2 | 17755.0 | 18467.3 | 18401.4 | 17128.7 | 13211.9 |
| 70° | 1739.6 | 1767.1 | 2010.6 | 2981.1 | 4773.8 | 8498.4 | 14753.7 | 15522.8 | 15546.6 | 13453.6 | 9135.7 |
| 72.5° | 787.4 | 800.2 | 974.2 | 1452.1 | 2453.8 | 4524.8 | 10166.6 | 10900.9 | 10765.4 | 8573.5 | 5044.9 |
| 75° | 415.7 | 443.1 | 536.5 | 730.6 | 1182.9 | 1866.0 | 5530.1 | 6240.6 | 5956.8 | 3916.9 | 1856.8 |
| 77.5° | 307.6 | 316.8 | 364.4 | 465.1 | 633.6 | 727.0 | 2386.0 | 2838.3 | 2658.9 | 1417.3 | 615.3 |
| 80° | 225.2 | 232.6 | 271.0 | 329.6 | 399.2 | 369.9 | 899.1 | 1030.9 | 924.7 | 481.6 | 188.6 |
| 82.5° | 137.3 | 139.2 | 197.8 | 245.4 | 250.9 | 206.9 | 296.6 | 318.6 | 333.3 | 271.0 | 102.5 |
| 85° | 49.4 | 62.3 | 133.7 | 177.6 | 148.3 | 104.4 | 124.5 | 137.3 | 150.2 | 172.1 | 60.4 |
| 87.5° | 5.5 | 7.3 | 64.1 | 86.1 | 42.1 | 38.5 | 45.8 | 51.3 | 54.9 | 64.1 | 29.3 |
| 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° | 2722.9 | 2722.9 | 2722.9 | 2722.9 | 2722.9 | 2722.9 | 2722.9 | 2722.9 | 2722.9 | 2722.9 | 2722.9 |
| 2.5° | 2739.4 | 2746.7 | 2741.3 | 2732.1 | 2730.3 | 2724.8 | 2713.8 | 2713.8 | 2713.8 | 2717.4 | 2713.8 |
| 5° | 2779.7 | 2785.2 | 2772.4 | 2754.1 | 2733.9 | 2708.3 | 2680.8 | 2664.3 | 2662.5 | 2658.9 | 2649.7 |
| 7.5° | 2856.6 | 2863.9 | 2834.6 | 2790.7 | 2735.8 | 2673.5 | 2614.9 | 2560.0 | 2534.3 | 2514.2 | 2514.2 |
| 10° | 2968.3 | 2975.6 | 2917.0 | 2838.3 | 2728.4 | 2602.1 | 2462.9 | 2336.6 | 2237.7 | 2191.9 | 2180.9 |
| 12.5° | 3102.0 | 3105.7 | 3008.6 | 2871.3 | 2690.0 | 2446.4 | 2149.8 | 1873.3 | 1681.0 | 1593.1 | 1584.0 |
| 15° | 3248.5 | 3222.8 | 3094.7 | 2884.1 | 2580.1 | 2126.0 | 1613.3 | 1274.5 | 1074.9 | 1016.3 | 1038.3 |
| 17.5° | 3396.8 | 3349.2 | 3160.6 | 2863.9 | 2332.9 | 1613.3 | 1084.0 | 869.8 | 807.5 | 791.1 | 791.1 |
| 20° | 3536.0 | 3470.1 | 3208.2 | 2776.0 | 1904.4 | 1111.5 | 803.9 | 752.6 | 741.6 | 730.6 | 732.5 |
| 22.5° | 3675.1 | 3574.4 | 3250.3 | 2580.1 | 1419.2 | 794.7 | 719.6 | 703.2 | 688.5 | 673.9 | 672.0 |
| 25° | 3810.7 | 3671.5 | 3266.8 | 2217.5 | 966.9 | 683.0 | 657.4 | 635.4 | 606.1 | 589.6 | 586.0 |
| 27.5° | 3951.7 | 3788.7 | 3255.8 | 1759.7 | 705.0 | 611.6 | 586.0 | 554.8 | 520.1 | 490.8 | 490.8 |
| 30° | 4222.7 | 4012.1 | 3217.4 | 1265.3 | 593.3 | 538.4 | 505.4 | 456.0 | 417.5 | 388.2 | 386.4 |
| 32.5° | 4592.6 | 4303.2 | 3085.5 | 889.9 | 527.4 | 474.3 | 424.8 | 369.9 | 329.6 | 307.6 | 307.6 |
| 35° | 4922.2 | 4596.2 | 2838.3 | 655.6 | 474.3 | 412.0 | 351.6 | 298.5 | 267.4 | 252.7 | 247.2 |
| 37.5° | 5423.9 | 5024.7 | 2497.7 | 532.9 | 423.0 | 357.1 | 294.8 | 245.4 | 219.7 | 208.8 | 208.8 |
| 40° | 6176.5 | 5548.4 | 2080.2 | 466.9 | 373.6 | 304.0 | 245.4 | 206.9 | 186.8 | 174.0 | 174.0 |
| 42.5° | 7110.4 | 6189.3 | 1657.2 | 419.3 | 327.8 | 261.9 | 205.1 | 175.8 | 157.5 | 148.3 | 146.5 |
| 45° | 8286.0 | 6865.0 | 1276.3 | 375.4 | 291.2 | 223.4 | 174.0 | 148.3 | 130.0 | 124.5 | 126.4 |
| 47.5° | 9512.9 | 7460.2 | 988.8 | 336.9 | 252.7 | 188.6 | 148.3 | 128.2 | 115.4 | 108.0 | 108.0 |
| 50° | 10560.3 | 7870.3 | 750.8 | 293.0 | 223.4 | 159.3 | 130.0 | 115.4 | 104.4 | 100.7 | 98.9 |
| 52.5° | 11435.6 | 7989.4 | 575.0 | 254.5 | 195.9 | 137.3 | 115.4 | 104.4 | 95.2 | 89.7 | 89.7 |
| 55° | 12180.9 | 7885.0 | 450.5 | 214.2 | 164.8 | 119.0 | 102.5 | 93.4 | 82.4 | 76.9 | 75.1 |
| 57.5° | 12616.7 | 7549.9 | 344.3 | 177.6 | 133.7 | 98.9 | 89.7 | 78.7 | 65.9 | 56.8 | 56.8 |
| 60° | 12836.5 | 7062.8 | 263.7 | 146.5 | 102.5 | 78.7 | 73.2 | 58.6 | 45.8 | 38.5 | 36.6 |
| 62.5° | 12572.8 | 6416.4 | 199.6 | 115.4 | 76.9 | 58.6 | 49.4 | 42.1 | 29.3 | 22.0 | 22.0 |
| 63° | 12409.8 | 6229.6 | 192.3 | 109.9 | 71.4 | 54.9 | 45.8 | 38.5 | 25.6 | 20.1 | 18.3 |
| 65° | 11312.9 | 5414.8 | 157.5 | 87.9 | 56.8 | 38.5 | 31.1 | 27.5 | 18.3 | 9.2 | 7.3 |
| 67.5° | 8983.7 | 4142.1 | 124.5 | 65.9 | 40.3 | 27.5 | 18.3 | 16.5 | 5.5 | 0.0 | 0.0 |
| 70° | 6074.0 | 2675.3 | 97.1 | 47.6 | 27.5 | 16.5 | 9.2 | 7.3 | 1.8 | 0.0 | 0.0 |
| 72.5° | 3167.9 | 1371.5 | 75.1 | 34.8 | 16.5 | 11.0 | 5.5 | 1.8 | 0.0 | 0.0 | 0.0 |
| 75° | 1120.7 | 466.9 | 54.9 | 22.0 | 11.0 | 5.5 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 338.8 | 174.0 | 34.8 | 16.5 | 7.3 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 119.0 | 64.1 | 20.1 | 11.0 | 5.5 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 58.6 | 31.1 | 12.8 | 9.2 | 5.5 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 33.0 | 20.1 | 11.0 | 9.2 | 5.5 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 23.8 | 14.6 | 11.0 | 9.2 | 7.3 | 3.7 | 1.8 | 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)