

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: P193207

Luminaire Tested: **GAN-AF-09-LED-U-T3-7030-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-T3-7030-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56470.7 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 575
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: 28.75 FT

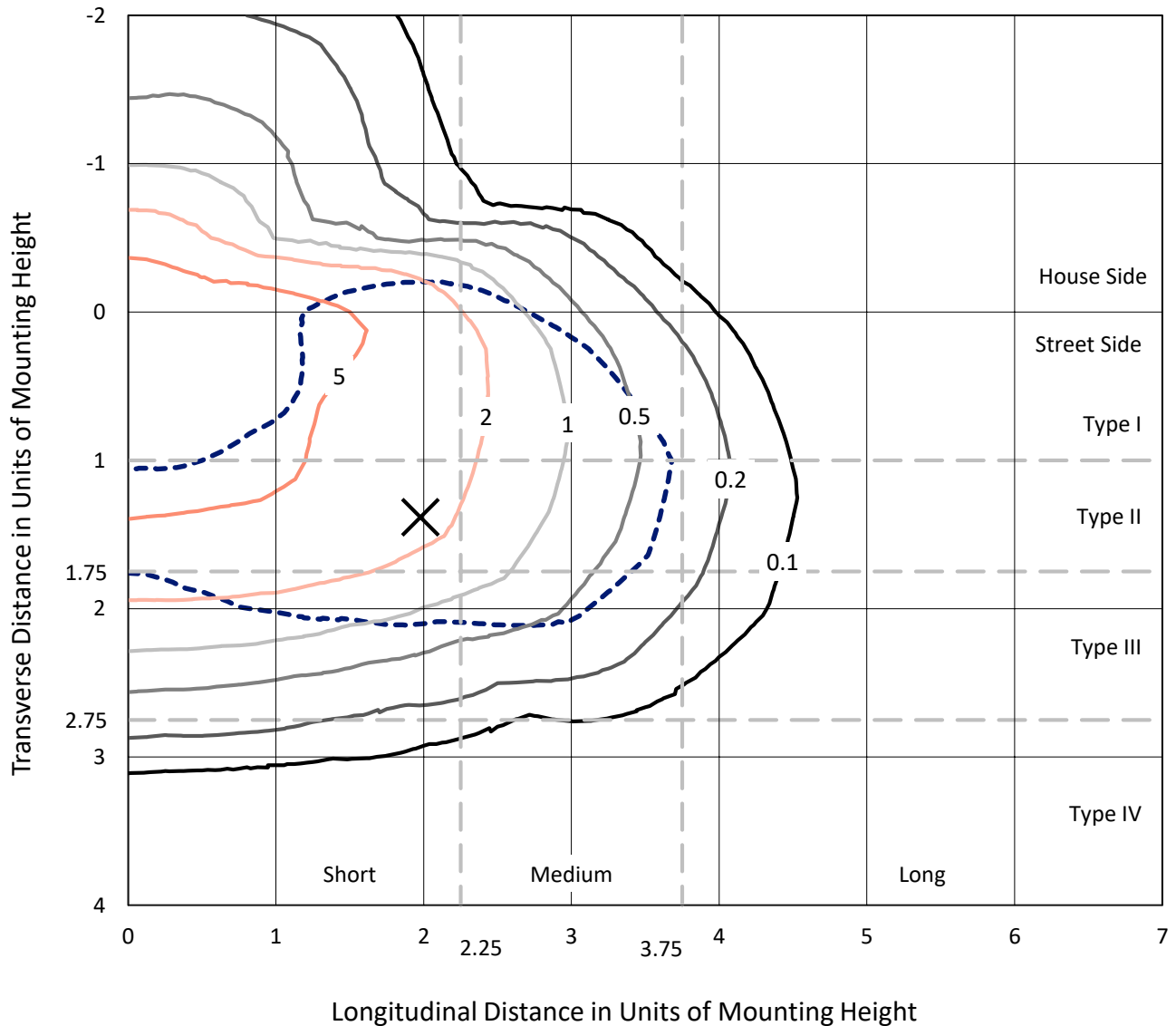


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

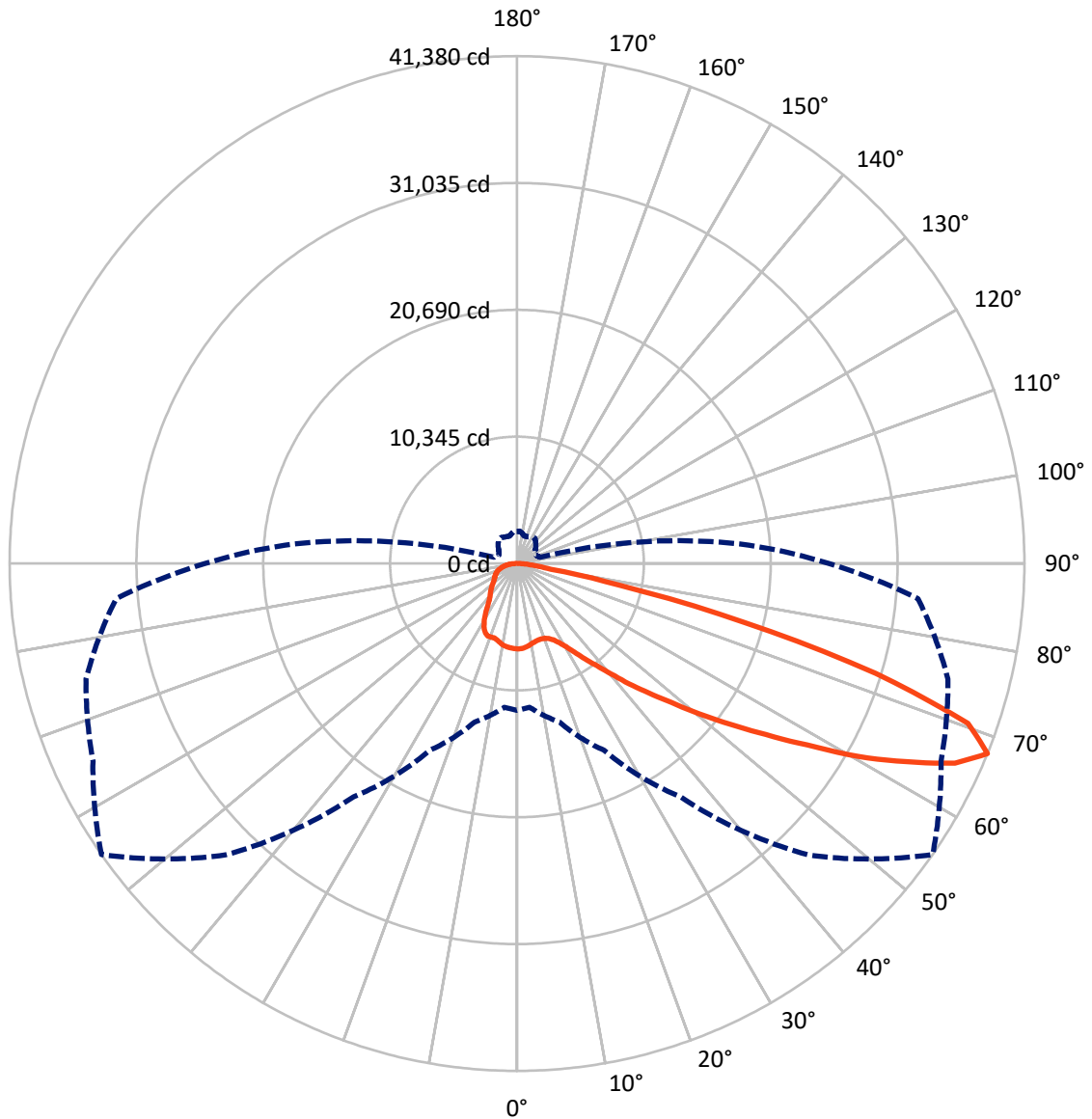


Based on 30 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12198.9 | 0.0 | 12198.9 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 44271.8 | 0.0 | 44271.8 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 56470.7 | 0.0 | 56470.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 650.0 | 1.2 |
| 10°-20° | 1840.8 | 3.3 |
| 20°-30° | 3083.6 | 5.5 |
| 30°-40° | 5070.7 | 9.0 |
| 40°-50° | 8535.6 | 15.1 |
| 50°-60° | 13434.3 | 23.8 |
| 60°-70° | 16032.4 | 28.4 |
| 70°-80° | 6884.6 | 12.2 |
| 80°-90° | 938.7 | 1.7 |
| 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° | 56470.7 | 100.0 |
| 0°-180° | 56470.7 | 100.0 |



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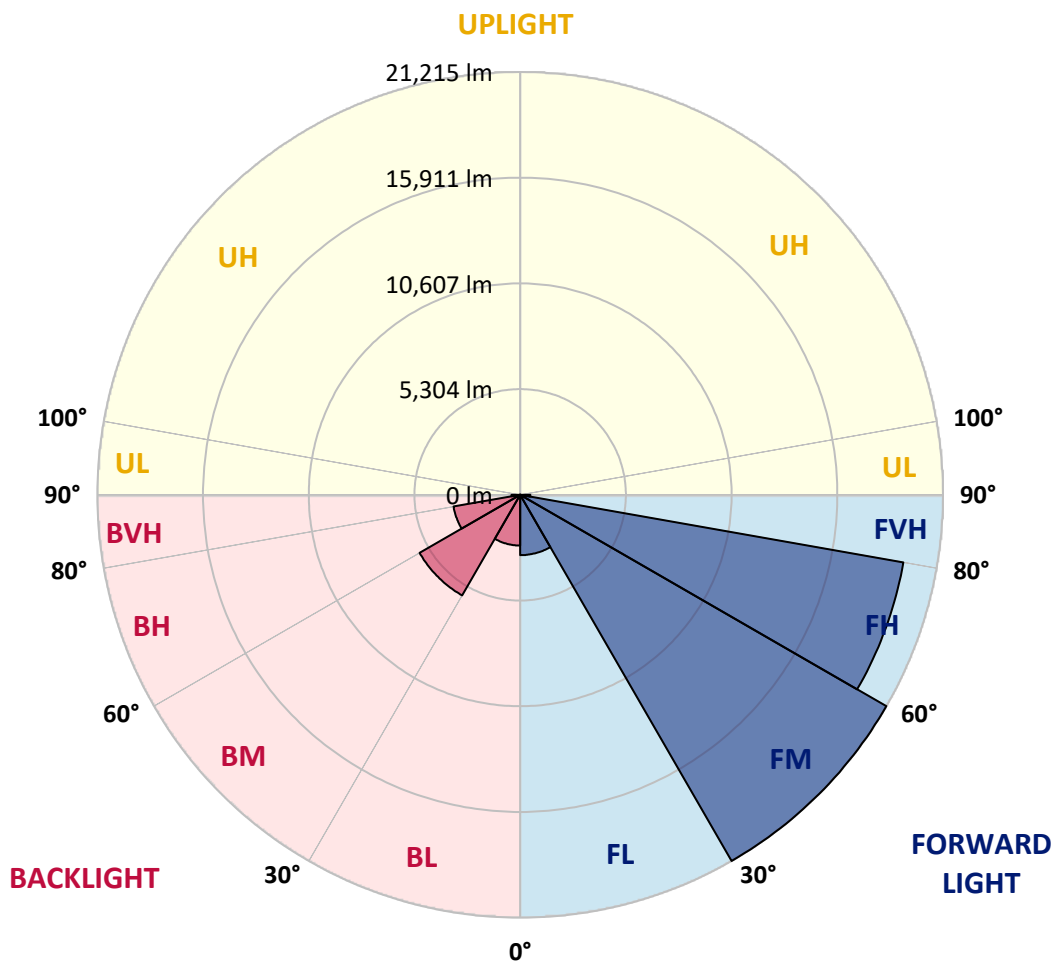
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3027.0 | 5.4 | | | |
| FM | (30°-60°) | 21214.6 | 37.6 | | | |
| FH | (60°-80°) | 19522.2 | 34.6 | | | G5 |
| FVH | (80°-90°) | 508.1 | 0.9 | | | G4/750 |
| BL | (0°-30°) | 2547.4 | 4.5 | B4/5000 | | |
| BM | (30°-60°) | 5826.1 | 10.3 | B4/8500 | | |
| BH | (60°-80°) | 3394.9 | 6.0 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 430.5 | 0.8 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6963.4 | 6963.4 | 6963.4 | 6963.4 | 6963.4 | 6963.4 | 6963.4 | 6963.4 | 6963.4 | 6963.4 | 6963.4 |
| 2.5° | 6903.4 | 6906.2 | 6911.6 | 6933.5 | 6952.5 | 6947.0 | 6949.8 | 6938.9 | 6936.3 | 6919.8 | 6936.3 |
| 5° | 6816.1 | 6824.4 | 6827.1 | 6862.6 | 6884.3 | 6889.8 | 6881.5 | 6868.0 | 6851.6 | 6835.3 | 6843.5 |
| 7.5° | 6617.1 | 6638.9 | 6641.6 | 6690.7 | 6726.1 | 6772.6 | 6775.2 | 6778.0 | 6769.8 | 6758.9 | 6775.2 |
| 10° | 6491.5 | 6497.0 | 6494.3 | 6529.8 | 6557.0 | 6608.9 | 6638.9 | 6690.7 | 6712.6 | 6718.0 | 6728.8 |
| 12.5° | 6483.5 | 6478.0 | 6469.8 | 6469.8 | 6461.6 | 6483.5 | 6538.0 | 6611.6 | 6663.4 | 6679.8 | 6693.4 |
| 15° | 6570.7 | 6567.9 | 6540.7 | 6499.8 | 6447.9 | 6431.5 | 6478.0 | 6559.8 | 6628.0 | 6663.4 | 6677.1 |
| 17.5° | 6767.1 | 6750.7 | 6707.1 | 6614.3 | 6502.4 | 6458.9 | 6464.4 | 6532.5 | 6611.6 | 6657.9 | 6671.6 |
| 20° | 7127.1 | 7127.1 | 7034.3 | 6859.9 | 6660.7 | 6557.0 | 6507.9 | 6548.9 | 6625.3 | 6688.0 | 6707.1 |
| 22.5° | 7749.0 | 7754.4 | 7599.0 | 7312.6 | 6977.1 | 6756.1 | 6633.4 | 6625.3 | 6715.3 | 6786.2 | 6808.0 |
| 25° | 8630.0 | 8608.2 | 8389.9 | 7980.9 | 7470.8 | 7105.2 | 6892.5 | 6843.5 | 6919.8 | 6998.9 | 7026.1 |
| 27.5° | 9655.6 | 9576.5 | 9317.3 | 8823.7 | 8163.6 | 7628.9 | 7301.7 | 7222.6 | 7296.3 | 7386.3 | 7413.5 |
| 30° | 10670.1 | 10588.4 | 10280.2 | 9740.1 | 9006.4 | 8329.9 | 7860.7 | 7732.6 | 7836.3 | 7964.5 | 7980.9 |
| 32.5° | 11684.8 | 11684.8 | 11341.2 | 10711.1 | 9911.9 | 9167.3 | 8605.5 | 8452.8 | 8624.5 | 8780.0 | 8815.5 |
| 35° | 12898.6 | 12904.1 | 12571.3 | 11813.0 | 10953.9 | 10165.6 | 9546.4 | 9434.6 | 9693.7 | 9802.8 | 9887.4 |
| 37.5° | 14390.5 | 14420.6 | 13992.4 | 13075.9 | 12134.9 | 11305.7 | 10569.3 | 10416.6 | 10675.6 | 10972.9 | 11245.7 |
| 40° | 16002.5 | 16040.8 | 15568.9 | 14439.7 | 13498.7 | 12631.4 | 11834.9 | 11559.4 | 11990.3 | 12557.7 | 12909.5 |
| 42.5° | 17540.9 | 17737.2 | 17281.7 | 16119.9 | 15108.0 | 14210.6 | 13403.2 | 13002.3 | 13542.3 | 14398.7 | 14704.2 |
| 45° | 19763.9 | 19905.7 | 19111.9 | 18059.1 | 17107.3 | 16103.5 | 15034.3 | 14611.5 | 15367.1 | 16447.2 | 16509.8 |
| 47.5° | 21244.9 | 21138.5 | 20734.9 | 20080.2 | 19477.4 | 18539.2 | 16929.9 | 16466.3 | 17470.0 | 18741.0 | 18389.2 |
| 50° | 22033.2 | 22065.9 | 22011.4 | 22049.5 | 22071.4 | 21482.2 | 19253.7 | 18618.4 | 19815.7 | 21351.3 | 20541.2 |
| 52.5° | 22769.6 | 22551.4 | 22731.4 | 23626.1 | 24706.1 | 24488.0 | 21782.3 | 21119.5 | 22330.5 | 24248.0 | 22815.9 |
| 55° | 22753.2 | 22420.5 | 23006.9 | 24586.2 | 26929.1 | 27180.1 | 24621.7 | 23858.0 | 24989.9 | 27354.7 | 25227.2 |
| 57.5° | 21948.6 | 21965.1 | 22867.9 | 24935.2 | 28478.4 | 29711.3 | 27916.5 | 26770.9 | 27810.2 | 30502.2 | 27428.3 |
| 60° | 20841.2 | 20991.2 | 22292.2 | 24878.0 | 29719.4 | 31786.9 | 31958.8 | 29910.4 | 30573.2 | 33363.4 | 29250.4 |
| 62.5° | 19054.7 | 19212.9 | 21007.6 | 24283.4 | 29531.2 | 33786.2 | 35613.7 | 33472.5 | 33461.6 | 35098.2 | 29784.9 |
| 65° | 16237.1 | 16190.8 | 18075.6 | 22060.4 | 27952.1 | 35264.5 | 39244.1 | 36551.9 | 35638.1 | 35125.4 | 28710.3 |
| 67.5° | 11973.9 | 11766.6 | 13384.1 | 16801.8 | 23233.3 | 33608.9 | 41379.8 | 38155.7 | 36380.2 | 32815.3 | 25426.3 |
| 70° | 6213.3 | 6006.1 | 7315.4 | 9811.1 | 15279.8 | 26230.9 | 39015.0 | 37326.6 | 34740.8 | 27507.4 | 19919.4 |
| 72.5° | 2656.6 | 2621.1 | 3153.0 | 4304.0 | 7391.7 | 15129.7 | 30592.3 | 32307.9 | 29809.4 | 20494.9 | 13695.1 |
| 75° | 1786.5 | 1775.7 | 1974.8 | 2345.7 | 3324.9 | 6139.8 | 19144.7 | 22933.3 | 21809.6 | 12707.7 | 7702.7 |
| 77.5° | 1402.1 | 1388.3 | 1505.6 | 1685.7 | 2154.8 | 2422.1 | 8496.3 | 12312.2 | 11395.7 | 5531.5 | 3371.3 |
| 80° | 1096.5 | 1085.6 | 1159.2 | 1257.3 | 1549.3 | 1527.5 | 2795.7 | 4898.6 | 3791.3 | 2119.3 | 1639.2 |
| 82.5° | 864.7 | 864.7 | 924.7 | 927.4 | 1099.2 | 1041.9 | 1459.2 | 2157.6 | 1892.9 | 1235.6 | 1003.8 |
| 85° | 791.0 | 791.0 | 853.8 | 692.8 | 717.4 | 657.3 | 905.5 | 1279.2 | 1200.1 | 507.3 | 436.4 |
| 87.5° | 398.2 | 387.4 | 717.4 | 613.7 | 390.0 | 349.1 | 441.9 | 619.2 | 665.5 | 280.9 | 218.2 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6963.4 | 6963.4 | 6963.4 | 6963.4 | 6963.4 | 6963.4 | 6963.4 | 6963.4 | 6963.4 | 6963.4 |
| 2.5° | 6930.8 | 6928.0 | 6933.5 | 6936.3 | 6957.9 | 6988.0 | 7001.7 | 7020.7 | 7031.6 | 7026.1 |
| 5° | 6848.9 | 6854.4 | 6876.1 | 6892.5 | 6930.8 | 6979.8 | 7007.2 | 7028.8 | 7048.0 | 7039.8 |
| 7.5° | 6780.7 | 6794.3 | 6827.1 | 6840.7 | 6862.6 | 6876.1 | 6873.4 | 6881.5 | 6898.0 | 6878.9 |
| 10° | 6742.5 | 6758.9 | 6783.5 | 6764.4 | 6712.6 | 6638.9 | 6570.7 | 6535.3 | 6546.2 | 6532.5 |
| 12.5° | 6704.3 | 6726.1 | 6707.1 | 6617.1 | 6472.5 | 6377.0 | 6325.2 | 6330.7 | 6355.2 | 6360.6 |
| 15° | 6682.6 | 6690.7 | 6608.9 | 6439.7 | 6292.5 | 6278.8 | 6306.1 | 6300.7 | 6303.3 | 6303.3 |
| 17.5° | 6682.6 | 6660.7 | 6507.9 | 6338.7 | 6276.1 | 6251.6 | 6167.0 | 6060.6 | 6014.2 | 5997.9 |
| 20° | 6718.0 | 6660.7 | 6475.2 | 6363.4 | 6227.0 | 6017.0 | 5793.4 | 5597.0 | 5509.6 | 5485.2 |
| 22.5° | 6824.4 | 6726.1 | 6567.9 | 6374.3 | 5987.0 | 5635.1 | 5280.5 | 5046.0 | 4887.8 | 4860.5 |
| 25° | 7039.8 | 6930.8 | 6750.7 | 6229.8 | 5605.1 | 5103.3 | 4699.6 | 4437.8 | 4279.5 | 4257.8 |
| 27.5° | 7416.2 | 7345.3 | 6848.9 | 5910.6 | 5097.8 | 4560.5 | 4186.9 | 3984.9 | 3867.7 | 3859.5 |
| 30° | 7983.6 | 7948.1 | 6799.7 | 5438.7 | 4473.2 | 4034.1 | 3854.0 | 3736.7 | 3649.5 | 3646.7 |
| 32.5° | 8889.2 | 8602.7 | 6638.9 | 4863.2 | 3903.2 | 3660.4 | 3586.8 | 3515.9 | 3447.6 | 3447.6 |
| 35° | 10053.8 | 9131.9 | 6333.4 | 4246.8 | 3556.7 | 3453.1 | 3360.4 | 3248.5 | 3158.4 | 3153.0 |
| 37.5° | 11422.9 | 9459.1 | 5785.2 | 3750.5 | 3393.0 | 3314.0 | 3177.6 | 3011.1 | 2853.0 | 2825.8 |
| 40° | 12805.8 | 9557.4 | 5013.3 | 3445.0 | 3289.5 | 3174.8 | 3008.5 | 2812.2 | 2659.4 | 2651.1 |
| 42.5° | 14074.2 | 9369.2 | 4195.0 | 3234.8 | 3185.8 | 3033.0 | 2858.4 | 2684.0 | 2563.9 | 2561.1 |
| 45° | 15138.0 | 8880.9 | 3507.7 | 3035.8 | 3076.6 | 2904.8 | 2749.4 | 2607.6 | 2514.8 | 2495.7 |
| 47.5° | 16138.9 | 8190.8 | 3024.9 | 2825.8 | 2967.6 | 2833.9 | 2703.0 | 2569.3 | 2479.3 | 2465.8 |
| 50° | 17300.8 | 7446.2 | 2686.6 | 2621.1 | 2872.1 | 2809.4 | 2741.2 | 2602.1 | 2452.1 | 2435.7 |
| 52.5° | 18708.4 | 6802.5 | 2422.1 | 2441.2 | 2798.4 | 2842.2 | 2839.4 | 2694.8 | 2432.9 | 2411.2 |
| 55° | 20279.4 | 6087.9 | 2223.0 | 2293.9 | 2768.5 | 2902.2 | 2863.9 | 2782.1 | 2449.4 | 2416.6 |
| 57.5° | 21825.8 | 5253.3 | 2083.9 | 2182.0 | 2724.8 | 2896.7 | 2746.7 | 2629.4 | 2487.5 | 2441.2 |
| 60° | 22985.1 | 4132.3 | 1977.5 | 2083.9 | 2629.4 | 2806.7 | 2618.4 | 2463.0 | 2479.3 | 2443.9 |
| 62.5° | 23061.5 | 3193.9 | 1849.3 | 1999.3 | 2484.8 | 2716.6 | 2533.9 | 2389.4 | 2514.8 | 2482.1 |
| 65° | 21705.9 | 2413.9 | 1726.6 | 1898.4 | 2329.3 | 2659.4 | 2452.1 | 2348.4 | 2588.5 | 2553.0 |
| 67.5° | 18274.6 | 1942.0 | 1622.9 | 1794.7 | 2173.8 | 2539.4 | 2378.5 | 2310.3 | 2653.9 | 2591.2 |
| 70° | 13193.2 | 1655.6 | 1522.0 | 1669.3 | 2034.7 | 2402.9 | 2313.0 | 2242.0 | 2476.6 | 2378.5 |
| 72.5° | 8122.7 | 1434.7 | 1407.4 | 1502.9 | 1928.4 | 2261.1 | 2214.8 | 2113.8 | 2231.2 | 2152.1 |
| 75° | 4055.9 | 1243.8 | 1279.2 | 1339.2 | 1778.4 | 2100.2 | 2051.2 | 1950.2 | 1966.5 | 1950.2 |
| 77.5° | 1942.0 | 1063.7 | 1129.2 | 1175.6 | 1584.7 | 1917.5 | 1865.6 | 1762.1 | 1742.9 | 1745.6 |
| 80° | 1230.1 | 889.2 | 951.8 | 984.7 | 1415.6 | 1704.8 | 1652.9 | 1549.3 | 1767.5 | 1639.2 |
| 82.5° | 769.1 | 722.8 | 739.1 | 799.1 | 1232.9 | 1483.7 | 1415.6 | 1322.9 | 1592.9 | 1260.1 |
| 85° | 425.4 | 504.6 | 526.4 | 578.2 | 949.1 | 1241.0 | 1172.9 | 1055.6 | 946.5 | 930.2 |
| 87.5° | 253.7 | 300.0 | 308.2 | 346.4 | 638.3 | 897.3 | 793.8 | 752.8 | 624.6 | 621.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)