

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: P317393

Luminaire Tested: **GAN-SA9A-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39528 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

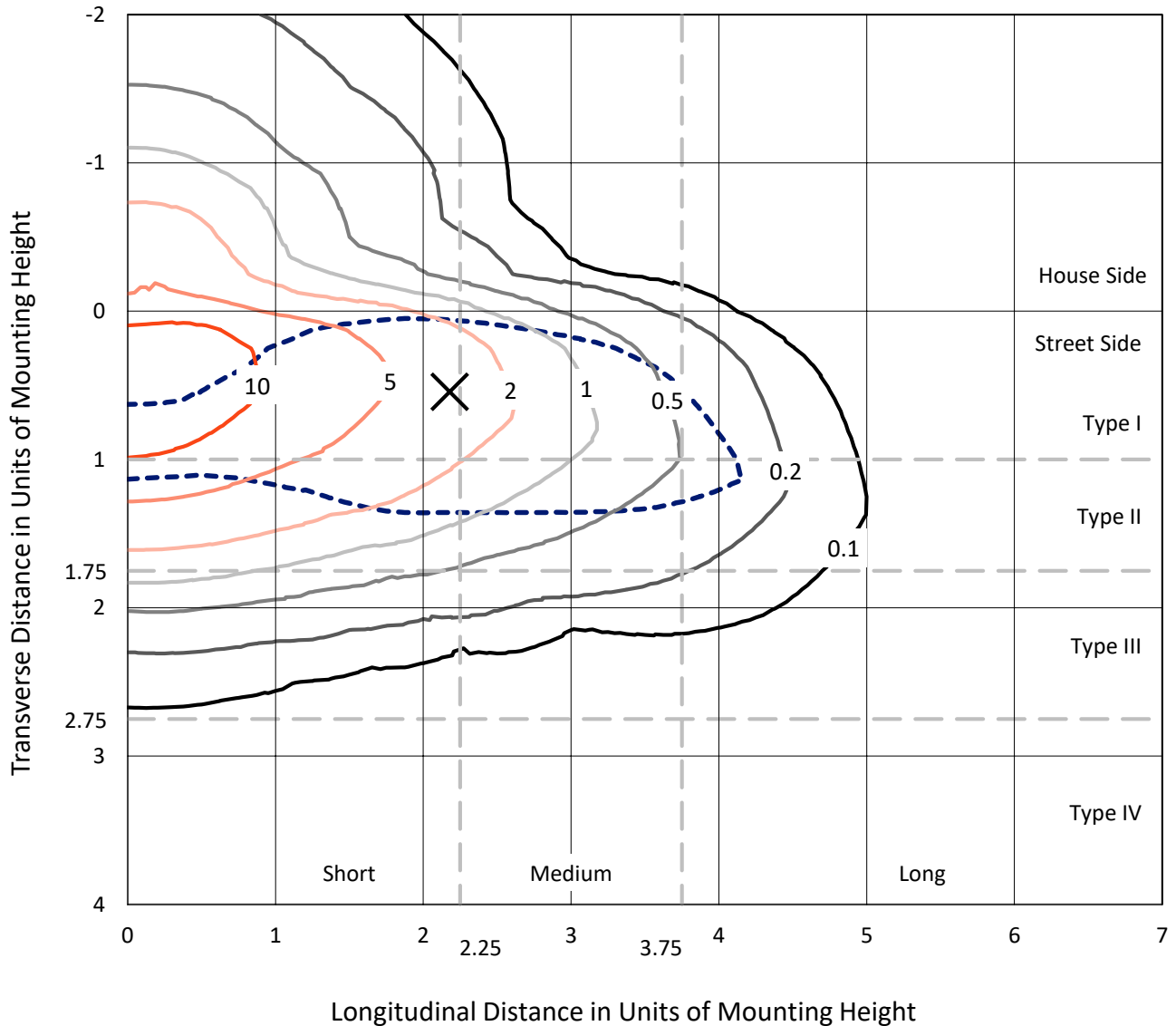
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

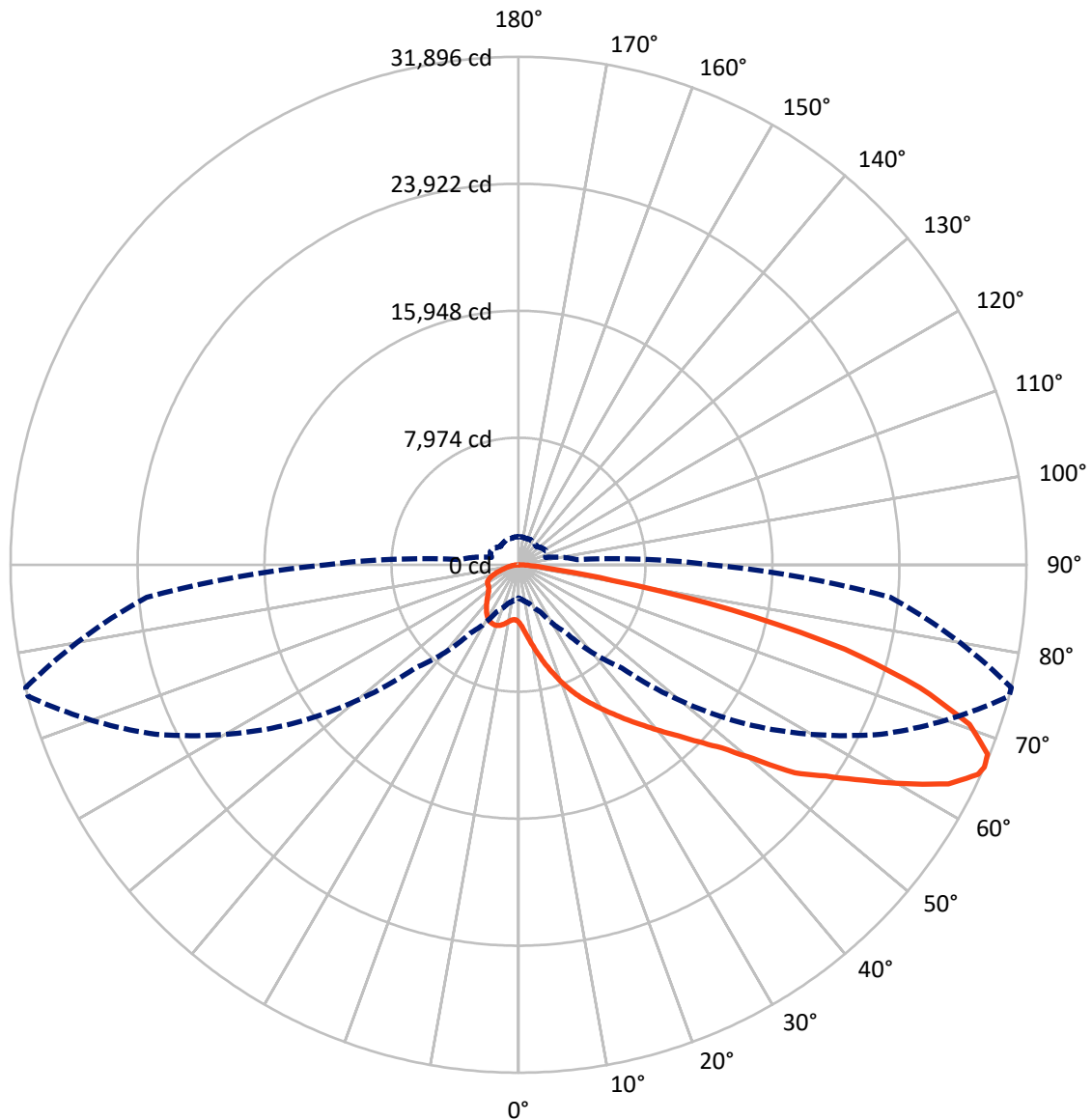
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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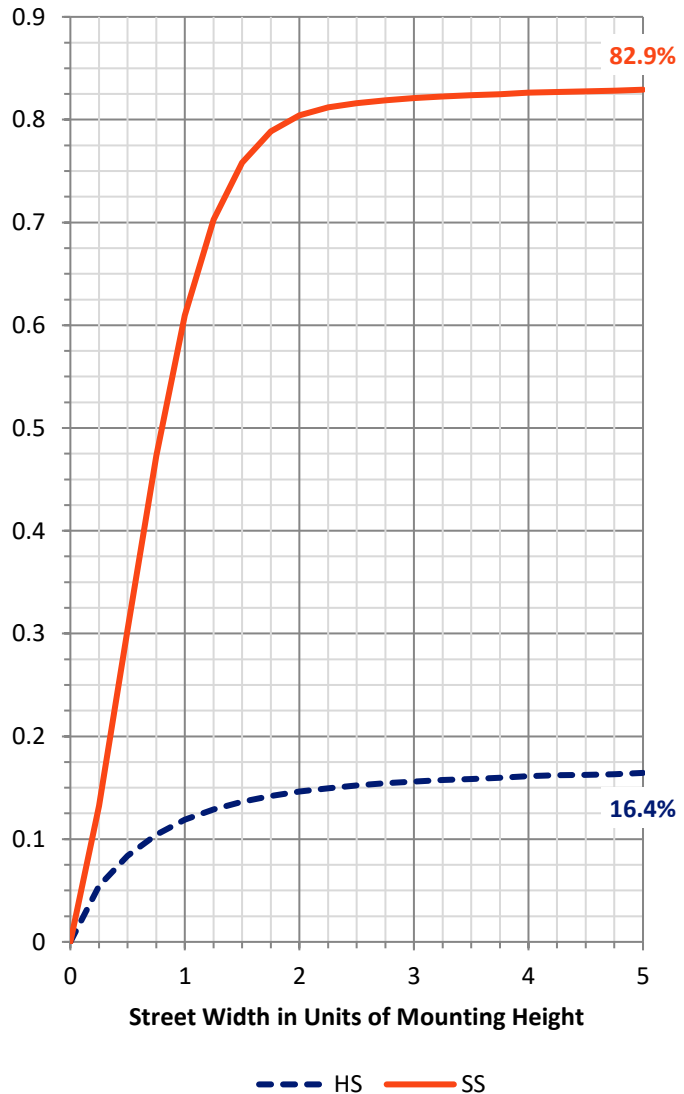
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6651.2 | 0.0 | 6651.2 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 32876.8 | 0.0 | 32876.8 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 39528.0 | 0.0 | 39528.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 436.5 | 1.1 |
| 10°-20° | 1723.8 | 4.4 |
| 20°-30° | 3349.8 | 8.5 |
| 30°-40° | 5467.6 | 13.8 |
| 40°-50° | 7470.0 | 18.9 |
| 50°-60° | 8701.0 | 22.0 |
| 60°-70° | 7800.6 | 19.7 |
| 70°-80° | 3942.1 | 10.0 |
| 80°-90° | 636.6 | 1.6 |
| 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° | 39528.0 | 100.0 |
| 0°-180° | 39528.0 | 100.0 |

Coefficient of Utilization

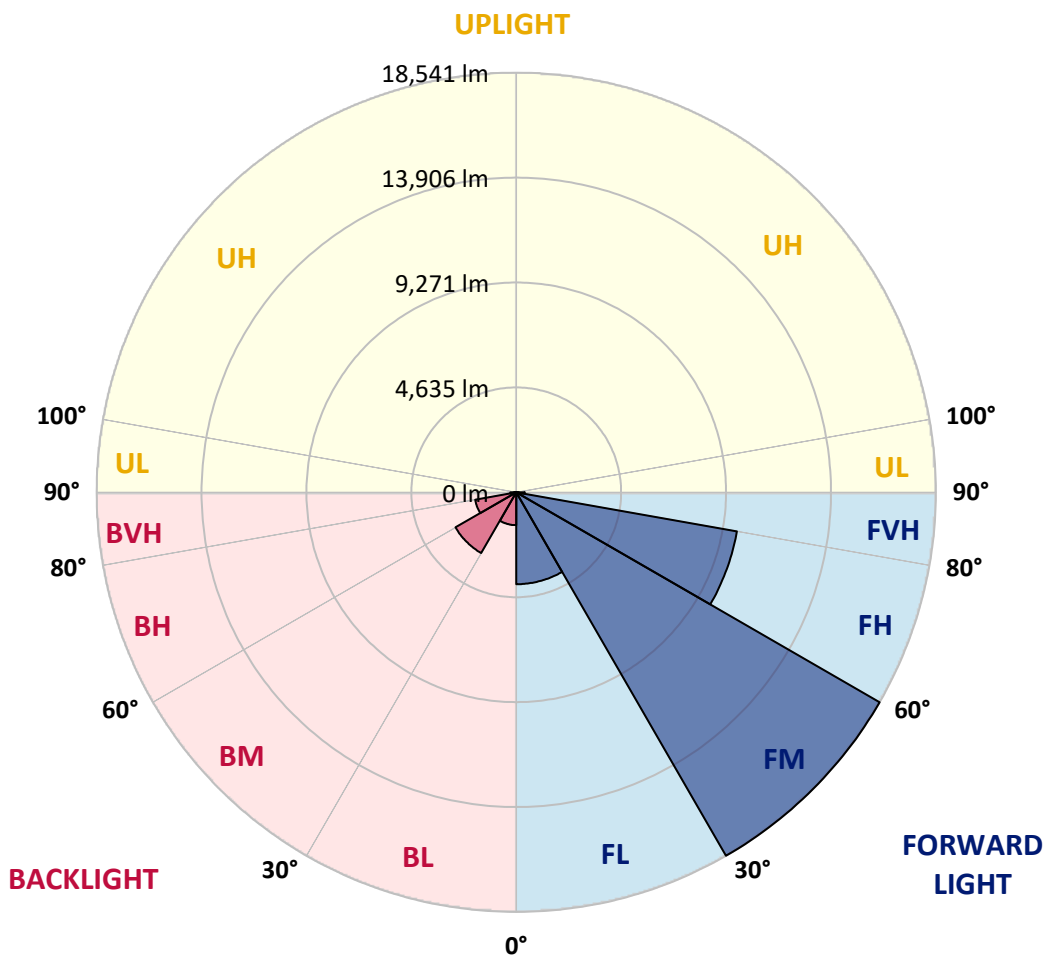


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 4059.4 | 10.3 | | | |
| FM (30°-60°) | 18541.4 | 46.9 | | | |
| FH (60°-80°) | 9900.1 | 25.0 | | | G4/12000 |
| FVH (80°-90°) | 375.9 | 1.0 | | | G3/500 |
| BL (0°-30°) | 1450.7 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 3097.2 | 7.8 | B3/5000 | | |
| BH (60°-80°) | 1842.7 | 4.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 260.7 | 0.7 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 |
| 2.5° | 4792.0 | 4719.6 | 4712.9 | 4606.9 | 4582.7 | 4380.1 | 4231.1 | 4075.4 | 3898.3 | 3863.4 | 3723.9 |
| 5° | 6155.4 | 6148.7 | 6056.1 | 5883.0 | 5747.5 | 5401.3 | 5059.1 | 4696.8 | 4299.6 | 4235.1 | 3921.1 |
| 7.5° | 7382.0 | 7371.2 | 7300.1 | 7113.6 | 6917.7 | 6492.3 | 6003.8 | 5448.2 | 4804.1 | 4708.8 | 4188.2 |
| 10° | 8313.3 | 8309.2 | 8285.1 | 8148.2 | 7981.8 | 7573.9 | 7034.4 | 6276.2 | 5390.5 | 5260.4 | 4522.3 |
| 12.5° | 9032.5 | 9040.6 | 9056.7 | 9008.4 | 8929.2 | 8581.7 | 8028.8 | 7153.8 | 6015.9 | 5887.1 | 4894.0 |
| 15° | 9519.7 | 9543.8 | 9627.0 | 9695.5 | 9737.1 | 9523.7 | 8988.3 | 8051.6 | 6716.4 | 6562.0 | 5306.0 |
| 17.5° | 9765.2 | 9792.1 | 9935.7 | 10142.3 | 10332.9 | 10311.4 | 9886.0 | 8907.7 | 7388.7 | 7239.7 | 5748.8 |
| 20° | 9977.3 | 9997.4 | 10158.4 | 10406.7 | 10743.5 | 10892.5 | 10653.6 | 9731.7 | 8125.4 | 7948.3 | 6218.5 |
| 22.5° | 10591.9 | 10617.4 | 10665.7 | 10806.6 | 11104.5 | 11378.2 | 11262.8 | 10511.4 | 8800.4 | 8635.3 | 6664.0 |
| 25° | 11778.1 | 11809.0 | 11704.3 | 11584.9 | 11641.3 | 11831.8 | 11853.3 | 11222.6 | 9484.8 | 9298.2 | 7143.1 |
| 27.5° | 13207.3 | 13251.6 | 13073.1 | 12765.8 | 12497.4 | 12423.6 | 12398.1 | 11805.0 | 10138.3 | 9922.2 | 7616.8 |
| 30° | 14606.9 | 14683.4 | 14451.3 | 14052.7 | 13560.2 | 13214.0 | 12957.7 | 12375.3 | 10782.4 | 10575.8 | 8063.7 |
| 32.5° | 15974.4 | 15943.5 | 15606.7 | 15217.5 | 14640.5 | 14207.0 | 13587.1 | 12987.2 | 11507.1 | 11269.5 | 8507.9 |
| 35° | 16911.0 | 16921.8 | 16609.1 | 16147.5 | 15597.3 | 15264.5 | 14429.8 | 13647.5 | 12246.5 | 12027.7 | 9012.4 |
| 37.5° | 17708.1 | 17658.5 | 17304.2 | 16873.5 | 16399.8 | 16257.5 | 15416.1 | 14374.8 | 13047.6 | 12808.7 | 9549.2 |
| 40° | 17973.8 | 17916.1 | 17684.0 | 17374.0 | 16994.2 | 16982.2 | 16504.4 | 15198.7 | 13953.4 | 13717.2 | 10154.4 |
| 42.5° | 17812.8 | 17739.0 | 17643.7 | 17559.2 | 17442.4 | 17496.1 | 17527.0 | 16164.9 | 14949.1 | 14684.8 | 10854.9 |
| 45° | 17218.3 | 17107.0 | 17174.0 | 17357.9 | 17611.5 | 17914.8 | 18450.2 | 17234.4 | 16064.3 | 15842.9 | 11677.5 |
| 47.5° | 16304.5 | 16203.8 | 16413.2 | 16806.4 | 17496.1 | 18263.7 | 19323.8 | 18415.3 | 17395.5 | 17175.4 | 12849.0 |
| 50° | 15018.9 | 15048.4 | 15347.7 | 16062.9 | 17105.6 | 18424.7 | 20400.1 | 19978.7 | 19330.5 | 19125.2 | 14447.2 |
| 52.5° | 12909.4 | 12914.8 | 13757.5 | 14931.7 | 16413.2 | 18341.5 | 20997.2 | 21976.8 | 21972.8 | 21724.5 | 15969.0 |
| 55° | 10950.2 | 11069.6 | 11736.5 | 13297.2 | 15291.3 | 18008.7 | 21414.6 | 22948.4 | 23707.9 | 23416.7 | 17387.4 |
| 57.5° | 9036.6 | 9106.4 | 9738.4 | 11305.8 | 13690.4 | 17121.7 | 21842.6 | 24114.5 | 25707.4 | 25523.6 | 19150.7 |
| 60° | 6860.0 | 6967.3 | 7620.8 | 9068.8 | 11642.6 | 15547.6 | 21882.9 | 25331.7 | 28097.4 | 27912.2 | 21119.3 |
| 62.5° | 4452.5 | 4637.7 | 5249.6 | 6606.3 | 9165.4 | 13283.8 | 20948.9 | 26127.4 | 30362.6 | 30296.8 | 22866.5 |
| 65° | 2559.1 | 2698.6 | 3124.0 | 4170.7 | 6323.2 | 10441.6 | 18728.0 | 25821.5 | 31756.8 | 31719.3 | 23520.0 |
| 66° | 2090.7 | 2178.0 | 2504.0 | 3259.6 | 5217.4 | 9169.4 | 17437.1 | 25176.0 | 31895.0 | 31896.4 | 23444.9 |
| 67.5° | 1672.0 | 1711.0 | 1857.2 | 2333.6 | 3850.0 | 7267.9 | 15130.3 | 23752.2 | 31723.3 | 31770.2 | 22960.5 |
| 70° | 1383.5 | 1403.7 | 1449.3 | 1564.7 | 2101.5 | 4382.8 | 10739.5 | 20052.5 | 29998.9 | 30035.1 | 21069.7 |
| 72.5° | 1241.3 | 1253.4 | 1270.8 | 1286.9 | 1482.8 | 2449.0 | 6559.4 | 16041.5 | 26301.9 | 26348.8 | 18188.6 |
| 75° | 1124.5 | 1131.2 | 1128.6 | 1129.9 | 1244.0 | 1560.7 | 3389.7 | 11976.7 | 21266.9 | 21173.0 | 13933.3 |
| 77.5° | 987.7 | 994.4 | 981.0 | 983.6 | 1100.4 | 1199.7 | 1686.8 | 8384.4 | 14352.0 | 13689.1 | 7850.3 |
| 80° | 834.7 | 840.0 | 834.7 | 844.1 | 958.1 | 905.8 | 981.0 | 4716.9 | 6346.0 | 6002.5 | 2791.2 |
| 82.5° | 630.7 | 653.5 | 669.6 | 707.2 | 789.1 | 644.1 | 656.2 | 1837.1 | 1932.4 | 1839.8 | 856.2 |
| 85° | 276.4 | 336.8 | 504.6 | 540.8 | 593.1 | 386.5 | 430.8 | 748.8 | 786.4 | 762.2 | 311.3 |
| 87.5° | 72.5 | 79.2 | 249.6 | 314.0 | 328.8 | 174.5 | 224.1 | 340.9 | 359.6 | 340.9 | 103.3 |
| 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° | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 |
| 2.5° | 3650.1 | 3584.3 | 3466.2 | 3361.5 | 3282.4 | 3228.7 | 3175.0 | 3148.2 | 3132.1 | 3116.0 | 3118.7 |
| 5° | 3766.8 | 3634.0 | 3431.3 | 3287.7 | 3207.2 | 3156.2 | 3129.4 | 3118.7 | 3111.9 | 3095.8 | 3095.8 |
| 7.5° | 3942.6 | 3754.7 | 3475.6 | 3328.0 | 3264.9 | 3226.0 | 3209.9 | 3204.5 | 3196.5 | 3177.7 | 3180.4 |
| 10° | 4164.0 | 3901.0 | 3568.2 | 3424.6 | 3366.9 | 3324.0 | 3301.2 | 3293.1 | 3278.3 | 3256.9 | 3259.6 |
| 12.5° | 4424.4 | 4082.2 | 3690.3 | 3540.0 | 3470.2 | 3412.5 | 3375.0 | 3352.1 | 3326.7 | 3298.5 | 3299.8 |
| 15° | 4708.8 | 4279.4 | 3821.8 | 3643.3 | 3548.1 | 3467.6 | 3407.2 | 3368.3 | 3328.0 | 3293.1 | 3291.8 |
| 17.5° | 4997.4 | 4470.0 | 3922.5 | 3699.7 | 3570.9 | 3464.9 | 3383.0 | 3322.6 | 3273.0 | 3230.0 | 3226.0 |
| 20° | 5308.7 | 4641.7 | 3978.8 | 3694.3 | 3527.9 | 3401.8 | 3293.1 | 3218.0 | 3162.9 | 3120.0 | 3113.3 |
| 22.5° | 5625.4 | 4802.8 | 3988.2 | 3639.3 | 3432.7 | 3278.3 | 3164.3 | 3081.1 | 3024.7 | 2980.4 | 2964.3 |
| 25° | 5915.2 | 4927.6 | 3949.3 | 3533.3 | 3299.8 | 3133.4 | 3022.0 | 2937.5 | 2891.9 | 2839.5 | 2823.4 |
| 27.5° | 6179.6 | 5014.8 | 3871.5 | 3397.8 | 3150.9 | 2987.1 | 2882.5 | 2810.0 | 2760.4 | 2720.1 | 2706.7 |
| 30° | 6417.1 | 5061.8 | 3744.0 | 3236.7 | 2997.9 | 2848.9 | 2760.4 | 2710.7 | 2667.8 | 2616.8 | 2607.4 |
| 32.5° | 6642.6 | 5061.8 | 3580.3 | 3060.9 | 2846.2 | 2726.8 | 2674.5 | 2643.6 | 2595.3 | 2545.6 | 2532.2 |
| 35° | 6868.0 | 5030.9 | 3387.0 | 2877.1 | 2706.7 | 2639.6 | 2636.9 | 2600.7 | 2526.9 | 2459.8 | 2442.3 |
| 37.5° | 7105.5 | 4967.8 | 3169.6 | 2705.3 | 2592.6 | 2600.7 | 2623.5 | 2543.0 | 2438.3 | 2343.0 | 2317.5 |
| 40° | 7373.9 | 4880.6 | 2944.2 | 2556.4 | 2497.3 | 2583.2 | 2587.2 | 2459.8 | 2255.8 | 2168.6 | 2145.7 |
| 42.5° | 7689.3 | 4793.4 | 2734.9 | 2424.9 | 2422.2 | 2530.9 | 2518.8 | 2279.9 | 2157.8 | 2113.5 | 2101.5 |
| 45° | 8103.9 | 4743.7 | 2536.3 | 2300.1 | 2363.1 | 2446.3 | 2402.1 | 2180.6 | 2129.6 | 2104.1 | 2093.4 |
| 47.5° | 8757.5 | 4769.2 | 2353.7 | 2200.8 | 2304.1 | 2361.8 | 2184.7 | 2140.4 | 2104.1 | 2073.3 | 2062.5 |
| 50° | 9576.0 | 4754.5 | 2206.1 | 2132.3 | 2237.0 | 2273.2 | 2086.7 | 2088.0 | 2069.3 | 2034.4 | 2018.3 |
| 52.5° | 10192.0 | 4639.1 | 2110.9 | 2093.4 | 2178.0 | 2116.2 | 2025.0 | 2037.1 | 2027.7 | 1976.7 | 1959.2 |
| 55° | 10786.5 | 4539.8 | 2062.5 | 2078.7 | 2135.0 | 1920.3 | 1952.5 | 1982.0 | 1972.6 | 1923.0 | 1914.9 |
| 57.5° | 11525.9 | 4521.0 | 2033.0 | 2082.7 | 2098.8 | 1822.3 | 1882.7 | 1921.6 | 1914.9 | 1893.5 | 1889.4 |
| 60° | 12431.7 | 4526.3 | 2006.2 | 2089.4 | 2058.5 | 1749.9 | 1817.0 | 1866.6 | 1870.7 | 1866.6 | 1863.9 |
| 62.5° | 12929.5 | 4380.1 | 1939.1 | 2070.6 | 1987.4 | 1686.8 | 1748.5 | 1821.0 | 1822.3 | 1830.4 | 1829.1 |
| 65° | 12506.8 | 3942.6 | 1814.3 | 2004.8 | 1868.0 | 1634.5 | 1689.5 | 1768.7 | 1748.5 | 1784.8 | 1784.8 |
| 66° | 12096.2 | 3690.3 | 1752.6 | 1961.9 | 1817.0 | 1614.3 | 1670.7 | 1741.8 | 1716.3 | 1766.0 | 1766.0 |
| 67.5° | 11257.5 | 3264.9 | 1641.2 | 1870.7 | 1744.5 | 1586.2 | 1649.2 | 1697.5 | 1662.7 | 1736.5 | 1731.1 |
| 70° | 9725.0 | 2525.5 | 1417.1 | 1664.0 | 1625.1 | 1544.6 | 1619.7 | 1609.0 | 1558.0 | 1670.7 | 1649.2 |
| 72.5° | 8199.2 | 1919.0 | 1138.0 | 1392.9 | 1443.9 | 1492.2 | 1578.1 | 1496.3 | 1431.8 | 1511.0 | 1464.0 |
| 75° | 6362.1 | 1442.6 | 899.1 | 1082.9 | 1219.8 | 1410.4 | 1528.5 | 1366.1 | 1273.5 | 1265.4 | 1239.9 |
| 77.5° | 3439.4 | 990.3 | 712.6 | 826.6 | 968.9 | 1308.4 | 1494.9 | 1226.5 | 1087.0 | 1054.8 | 1034.6 |
| 80° | 1362.1 | 644.1 | 518.0 | 626.7 | 677.7 | 1160.8 | 1414.4 | 1064.2 | 896.4 | 864.2 | 833.3 |
| 82.5° | 562.3 | 381.1 | 334.1 | 420.0 | 441.5 | 993.0 | 1269.5 | 872.3 | 692.4 | 958.1 | 1017.2 |
| 85° | 241.5 | 209.3 | 198.6 | 217.4 | 249.6 | 696.5 | 1010.5 | 665.6 | 747.5 | 666.9 | 530.1 |
| 87.5° | 72.5 | 88.6 | 84.5 | 83.2 | 91.3 | 166.4 | 538.1 | 370.4 | 548.9 | 208.0 | 155.7 |
| 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)