

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: P323846

Luminaire Tested: **GAN-SA2C-740-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA 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: 11745 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

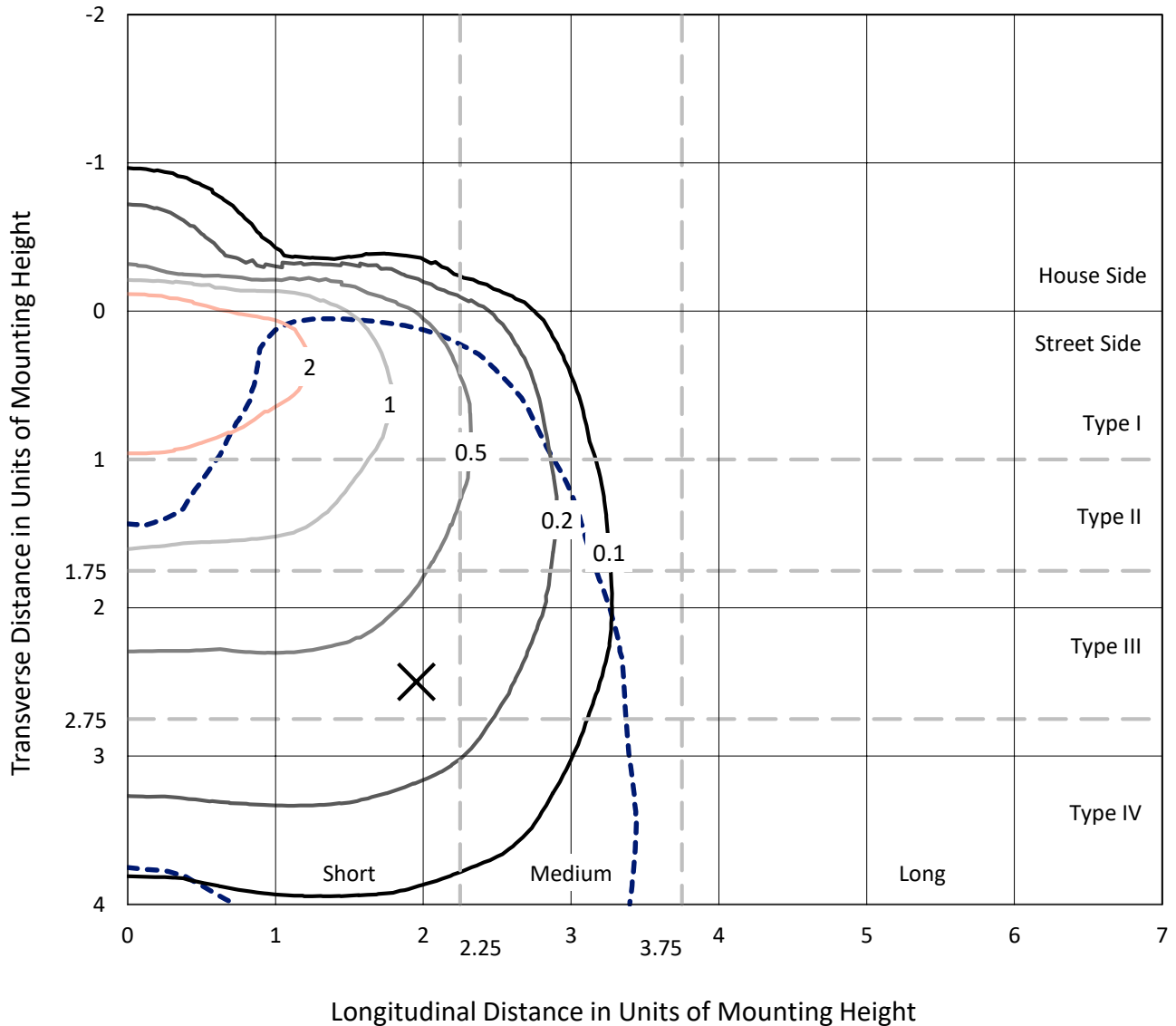
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

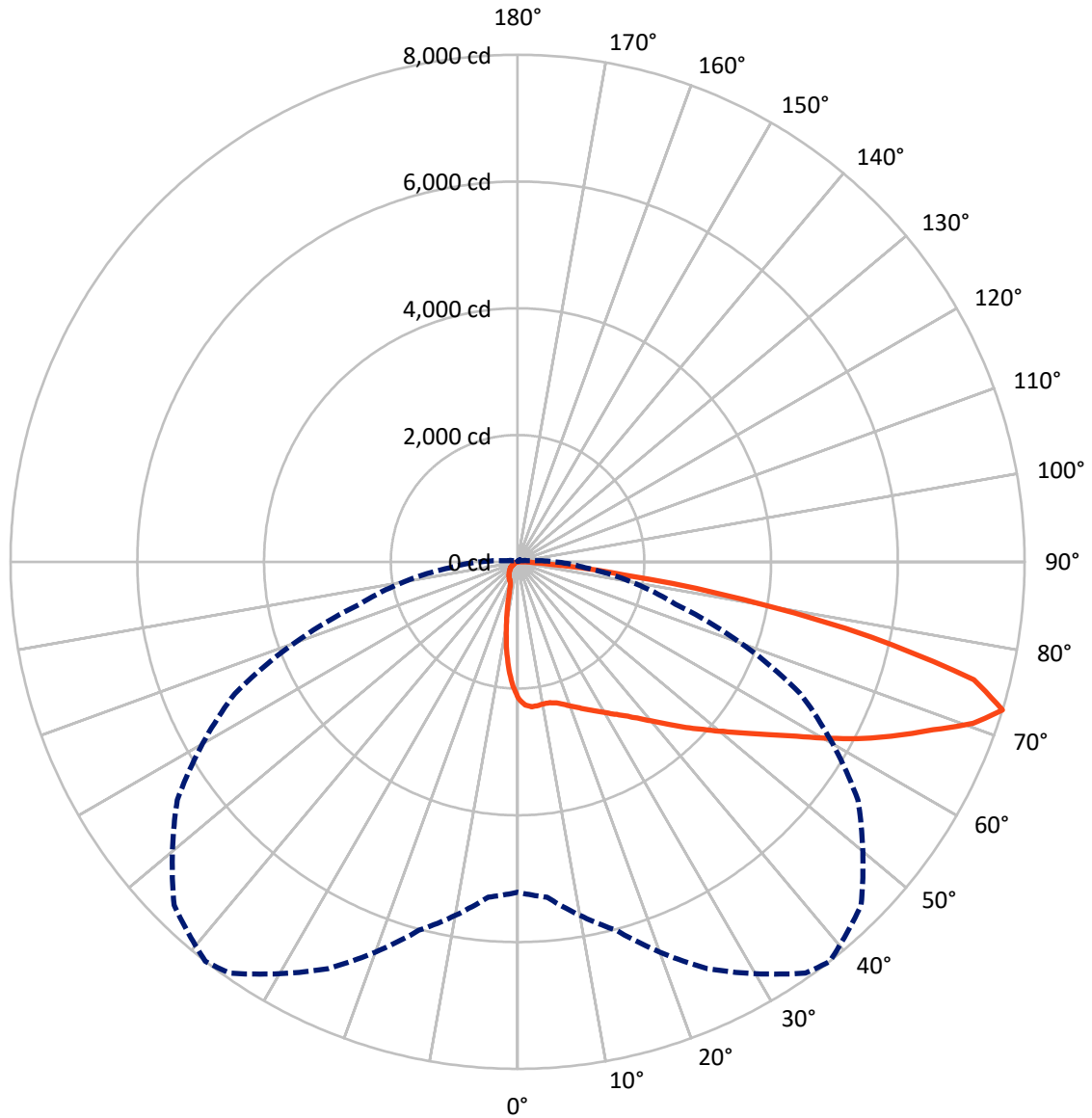
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 988.4 | 0.0 | 988.4 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 10756.6 | 0.0 | 10756.6 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 11745.0 | 0.0 | 11745.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 184.1 | 1.6 |
| 10°-20° | 450.1 | 3.8 |
| 20°-30° | 715.8 | 6.1 |
| 30°-40° | 1076.2 | 9.2 |
| 40°-50° | 1641.8 | 14.0 |
| 50°-60° | 2320.4 | 19.8 |
| 60°-70° | 2910.5 | 24.8 |
| 70°-80° | 2176.3 | 18.5 |
| 80°-90° | 269.9 | 2.3 |
| 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° | 11745.0 | 100.0 |
| 0°-180° | 11745.0 | 100.0 |

Coefficient of Utilization



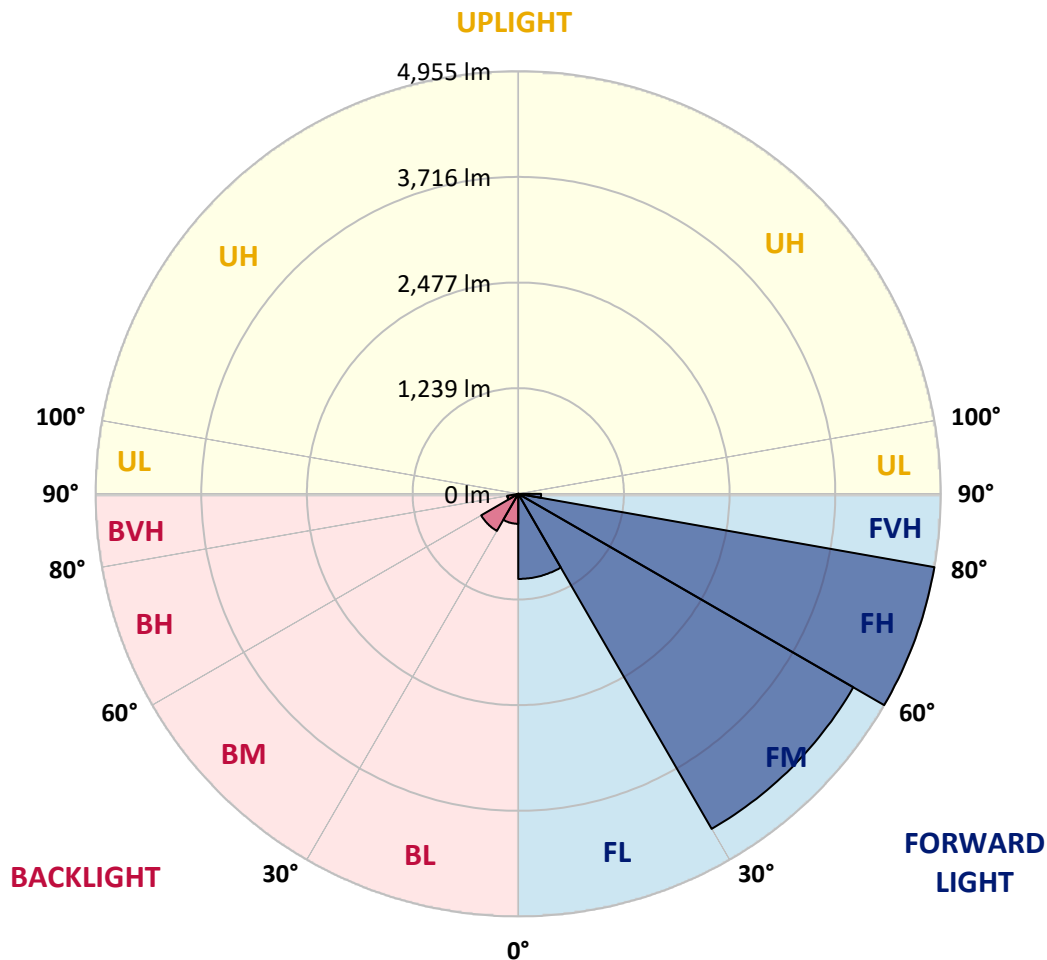
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 998.0 | 8.5 | | | |
| FM (30°-60°) | 4536.4 | 38.6 | | | |
| FH (60°-80°) | 4954.8 | 42.2 | | | G2/5000 |
| FVH (80°-90°) | 267.3 | 2.3 | | | G3/500 |
| BL (0°-30°) | 351.9 | 3.0 | B1/500 | | |
| BM (30°-60°) | 501.9 | 4.3 | B1/1000 | | |
| BH (60°-80°) | 132.0 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.5 | 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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2159.9 | 2159.9 | 2159.9 | 2159.9 | 2159.9 | 2159.9 | 2159.9 | 2159.9 | 2159.9 | 2159.9 | 2159.9 |
| 2.5° | 2292.5 | 2293.0 | 2287.7 | 2278.9 | 2267.7 | 2261.8 | 2252.1 | 2236.4 | 2219.9 | 2190.1 | 2157.9 |
| 5° | 2339.4 | 2339.4 | 2332.5 | 2320.8 | 2302.8 | 2297.4 | 2278.9 | 2254.0 | 2219.9 | 2171.6 | 2117.4 |
| 7.5° | 2334.5 | 2335.5 | 2326.2 | 2314.0 | 2296.0 | 2291.1 | 2268.6 | 2240.8 | 2198.4 | 2139.9 | 2070.6 |
| 10° | 2309.1 | 2311.6 | 2304.2 | 2298.4 | 2281.8 | 2276.4 | 2255.5 | 2227.7 | 2185.2 | 2122.8 | 2043.3 |
| 12.5° | 2283.3 | 2285.7 | 2288.2 | 2293.5 | 2283.3 | 2281.3 | 2264.7 | 2241.3 | 2200.8 | 2136.0 | 2046.2 |
| 15° | 2266.7 | 2271.6 | 2289.1 | 2310.1 | 2312.5 | 2310.6 | 2299.9 | 2277.9 | 2236.9 | 2169.6 | 2067.2 |
| 17.5° | 2266.7 | 2274.5 | 2311.1 | 2351.1 | 2365.2 | 2366.7 | 2357.4 | 2326.7 | 2277.9 | 2205.7 | 2086.7 |
| 20° | 2285.7 | 2296.4 | 2353.5 | 2410.1 | 2433.5 | 2433.5 | 2415.5 | 2372.5 | 2315.5 | 2238.4 | 2099.9 |
| 22.5° | 2334.5 | 2348.6 | 2420.3 | 2485.7 | 2510.6 | 2505.2 | 2480.8 | 2418.4 | 2354.5 | 2275.5 | 2116.5 |
| 25° | 2430.6 | 2441.3 | 2515.9 | 2581.8 | 2596.9 | 2584.7 | 2554.0 | 2474.0 | 2404.2 | 2325.7 | 2146.7 |
| 27.5° | 2554.5 | 2555.9 | 2633.0 | 2688.6 | 2679.3 | 2671.1 | 2632.5 | 2543.7 | 2475.9 | 2397.4 | 2198.9 |
| 30° | 2690.6 | 2690.6 | 2758.4 | 2800.8 | 2772.5 | 2765.7 | 2727.1 | 2628.1 | 2567.6 | 2495.0 | 2273.0 |
| 32.5° | 2822.3 | 2828.1 | 2883.2 | 2910.1 | 2878.4 | 2871.5 | 2834.0 | 2735.0 | 2689.6 | 2643.7 | 2388.6 |
| 35° | 2949.6 | 2954.0 | 3006.2 | 3020.8 | 2990.5 | 2992.5 | 2965.7 | 2881.8 | 2864.7 | 2858.8 | 2562.8 |
| 37.5° | 3073.0 | 3074.0 | 3127.1 | 3136.4 | 3121.3 | 3137.9 | 3140.3 | 3066.2 | 3097.9 | 3145.2 | 2808.1 |
| 40° | 3185.7 | 3186.6 | 3239.3 | 3263.2 | 3289.1 | 3310.5 | 3329.6 | 3290.0 | 3394.9 | 3504.7 | 3100.3 |
| 42.5° | 3275.9 | 3286.1 | 3353.0 | 3398.3 | 3466.6 | 3507.6 | 3559.3 | 3557.3 | 3748.5 | 3913.4 | 3453.4 |
| 45° | 3355.4 | 3373.0 | 3466.1 | 3545.6 | 3662.7 | 3728.1 | 3809.0 | 3872.4 | 4146.6 | 4368.5 | 3811.0 |
| 47.5° | 3460.3 | 3476.9 | 3583.2 | 3713.4 | 3869.5 | 3955.4 | 4089.5 | 4226.6 | 4584.1 | 4815.3 | 4160.2 |
| 50° | 3608.1 | 3600.8 | 3705.6 | 3892.4 | 4092.9 | 4205.6 | 4396.8 | 4602.2 | 5018.2 | 5204.6 | 4365.6 |
| 52.5° | 3765.6 | 3762.7 | 3840.3 | 4087.1 | 4356.3 | 4488.0 | 4740.7 | 4990.4 | 5433.3 | 5472.8 | 4459.7 |
| 55° | 3960.7 | 3939.8 | 4005.1 | 4309.0 | 4669.0 | 4810.4 | 5108.0 | 5374.8 | 5764.0 | 5624.0 | 4507.0 |
| 57.5° | 4165.1 | 4130.5 | 4192.9 | 4556.3 | 5021.6 | 5188.9 | 5514.8 | 5749.4 | 5984.0 | 5727.5 | 4506.6 |
| 60° | 4376.3 | 4335.3 | 4409.5 | 4865.6 | 5459.7 | 5653.3 | 5955.7 | 6002.6 | 6189.4 | 5779.6 | 4473.4 |
| 62.5° | 4552.9 | 4528.5 | 4638.7 | 5196.3 | 5948.9 | 6139.1 | 6288.9 | 6232.8 | 6362.5 | 5820.1 | 4395.8 |
| 65° | 4739.7 | 4741.2 | 4919.2 | 5582.1 | 6468.9 | 6597.2 | 6609.8 | 6531.3 | 6507.4 | 5811.8 | 4133.4 |
| 67.5° | 4992.4 | 5015.8 | 5312.8 | 6106.0 | 6974.7 | 7073.7 | 7072.7 | 6854.7 | 6613.3 | 5482.1 | 3551.5 |
| 70° | 5259.7 | 5314.8 | 5766.5 | 6705.4 | 7526.9 | 7627.3 | 7575.6 | 7060.5 | 6226.9 | 4432.9 | 2513.5 |
| 72.5° | 5214.8 | 5310.4 | 6018.7 | 7083.5 | 7923.4 | 8000.0 | 7663.9 | 6554.7 | 4921.6 | 2576.4 | 1070.2 |
| 75° | 4023.2 | 4133.9 | 5518.7 | 6708.9 | 7507.3 | 7438.6 | 6585.0 | 5100.7 | 2689.6 | 719.0 | 241.0 |
| 77.5° | 2125.2 | 2184.3 | 3645.6 | 5110.9 | 5853.8 | 5709.9 | 4638.7 | 2829.6 | 819.9 | 178.0 | 108.3 |
| 80° | 1113.1 | 1126.8 | 1588.7 | 2899.8 | 3612.9 | 3613.9 | 2749.1 | 1242.9 | 338.0 | 91.2 | 72.7 |
| 82.5° | 596.1 | 607.8 | 839.5 | 1339.9 | 1893.1 | 1716.0 | 1052.6 | 683.9 | 196.6 | 51.7 | 69.8 |
| 85° | 143.4 | 145.8 | 476.1 | 612.2 | 744.3 | 531.7 | 312.7 | 574.1 | 53.2 | 30.2 | 56.6 |
| 87.5° | 55.1 | 56.1 | 176.6 | 264.9 | 189.7 | 122.9 | 146.3 | 214.1 | 6.8 | 11.7 | 8.8 |
| 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° | 2159.9 | 2159.9 | 2159.9 | 2159.9 | 2159.9 | 2159.9 | 2159.9 | 2159.9 | 2159.9 | 2159.9 | 2159.9 |
| 2.5° | 2138.4 | 2125.7 | 2094.5 | 2055.0 | 2019.9 | 1994.5 | 1956.5 | 1931.6 | 1915.0 | 1914.5 | 1908.2 |
| 5° | 2084.3 | 2058.4 | 1991.1 | 1911.1 | 1838.4 | 1773.1 | 1696.0 | 1635.0 | 1589.7 | 1582.3 | 1566.7 |
| 7.5° | 2026.2 | 1983.8 | 1880.4 | 1755.5 | 1633.6 | 1509.7 | 1365.8 | 1276.5 | 1199.9 | 1163.3 | 1159.4 |
| 10° | 1990.6 | 1931.1 | 1784.3 | 1603.8 | 1412.6 | 1211.1 | 1022.9 | 892.6 | 798.5 | 771.7 | 751.7 |
| 12.5° | 1983.3 | 1904.8 | 1710.1 | 1461.4 | 1188.2 | 921.9 | 713.6 | 575.1 | 500.0 | 476.1 | 469.7 |
| 15° | 1990.6 | 1892.6 | 1647.7 | 1320.4 | 960.9 | 654.1 | 479.0 | 398.5 | 370.2 | 363.4 | 362.9 |
| 17.5° | 1995.0 | 1877.9 | 1577.0 | 1163.8 | 740.4 | 467.3 | 366.8 | 343.4 | 339.0 | 338.5 | 339.5 |
| 20° | 1994.5 | 1855.5 | 1492.6 | 989.2 | 550.7 | 367.3 | 331.7 | 326.8 | 325.8 | 326.3 | 325.8 |
| 22.5° | 1991.1 | 1829.2 | 1399.9 | 809.2 | 416.1 | 328.3 | 316.6 | 313.6 | 313.2 | 313.2 | 313.2 |
| 25° | 1997.4 | 1808.2 | 1298.0 | 637.0 | 342.9 | 310.2 | 302.9 | 300.5 | 300.0 | 300.0 | 299.0 |
| 27.5° | 2020.4 | 1796.5 | 1186.3 | 490.2 | 309.7 | 294.1 | 288.3 | 287.8 | 286.3 | 285.8 | 286.8 |
| 30° | 2057.4 | 1796.5 | 1063.8 | 381.4 | 289.7 | 277.5 | 273.2 | 272.2 | 271.7 | 271.2 | 271.7 |
| 32.5° | 2122.8 | 1810.1 | 930.2 | 317.1 | 270.7 | 259.0 | 256.1 | 257.5 | 256.1 | 256.1 | 256.1 |
| 35° | 2240.8 | 1851.1 | 790.2 | 276.6 | 250.7 | 241.0 | 238.0 | 240.0 | 239.0 | 239.0 | 238.5 |
| 37.5° | 2413.0 | 1927.2 | 649.2 | 252.2 | 233.2 | 222.9 | 219.0 | 221.9 | 221.0 | 221.0 | 220.5 |
| 40° | 2622.8 | 2037.9 | 515.1 | 233.6 | 216.1 | 205.4 | 201.9 | 203.4 | 201.0 | 201.0 | 201.9 |
| 42.5° | 2881.8 | 2178.4 | 398.0 | 215.6 | 199.0 | 188.8 | 186.8 | 185.4 | 181.0 | 178.5 | 179.0 |
| 45° | 3169.6 | 2324.7 | 310.2 | 198.0 | 182.9 | 174.6 | 171.7 | 167.8 | 160.5 | 155.6 | 156.1 |
| 47.5° | 3426.6 | 2437.4 | 252.2 | 181.0 | 168.3 | 161.9 | 157.6 | 150.2 | 139.5 | 133.7 | 134.1 |
| 50° | 3561.7 | 2454.5 | 214.6 | 163.9 | 154.6 | 148.3 | 141.9 | 130.7 | 118.0 | 111.7 | 111.2 |
| 52.5° | 3596.4 | 2374.5 | 186.8 | 148.3 | 141.0 | 133.7 | 125.4 | 110.2 | 96.1 | 89.3 | 88.3 |
| 55° | 3609.0 | 2252.5 | 161.9 | 133.7 | 126.3 | 118.0 | 107.3 | 90.2 | 77.1 | 70.2 | 69.8 |
| 57.5° | 3567.1 | 2070.6 | 142.4 | 120.5 | 111.7 | 101.5 | 88.3 | 72.2 | 59.5 | 54.1 | 54.1 |
| 60° | 3473.9 | 1824.3 | 127.3 | 106.3 | 96.6 | 84.9 | 71.2 | 56.1 | 44.4 | 40.0 | 40.0 |
| 62.5° | 3288.1 | 1505.3 | 113.2 | 91.7 | 82.4 | 70.2 | 57.6 | 42.4 | 31.2 | 28.8 | 29.3 |
| 65° | 2937.4 | 1141.9 | 99.0 | 78.5 | 70.2 | 58.0 | 44.9 | 30.2 | 21.0 | 21.0 | 21.9 |
| 67.5° | 2395.5 | 793.1 | 84.4 | 66.8 | 60.5 | 47.3 | 34.1 | 21.0 | 14.6 | 16.6 | 18.5 |
| 70° | 1585.8 | 444.9 | 72.2 | 55.1 | 51.7 | 37.6 | 25.4 | 14.1 | 11.7 | 15.6 | 19.0 |
| 72.5° | 598.5 | 173.2 | 60.5 | 44.4 | 44.9 | 28.8 | 18.0 | 10.7 | 10.7 | 17.1 | 22.4 |
| 75° | 166.8 | 84.9 | 43.4 | 32.7 | 35.1 | 21.0 | 13.2 | 9.3 | 10.2 | 19.5 | 26.3 |
| 77.5° | 98.0 | 62.4 | 28.3 | 19.0 | 23.9 | 14.6 | 8.8 | 7.3 | 8.8 | 16.6 | 25.4 |
| 80° | 79.0 | 33.2 | 16.6 | 9.8 | 13.2 | 8.3 | 5.9 | 4.4 | 2.4 | 6.3 | 13.2 |
| 82.5° | 79.0 | 20.0 | 7.8 | 6.8 | 6.8 | 4.4 | 2.9 | 2.0 | 0.5 | 0.0 | 3.4 |
| 85° | 53.2 | 8.3 | 4.9 | 4.4 | 3.4 | 1.5 | 1.0 | 0.5 | 0.0 | 0.0 | 0.0 |
| 87.5° | 8.8 | 3.4 | 2.0 | 1.0 | 0.5 | 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)