

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: P266922

Luminaire Tested: **GAN-AF-05-LED-U-SL4-7027-600-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-SL4-7027-600-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 13822.2 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 162
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

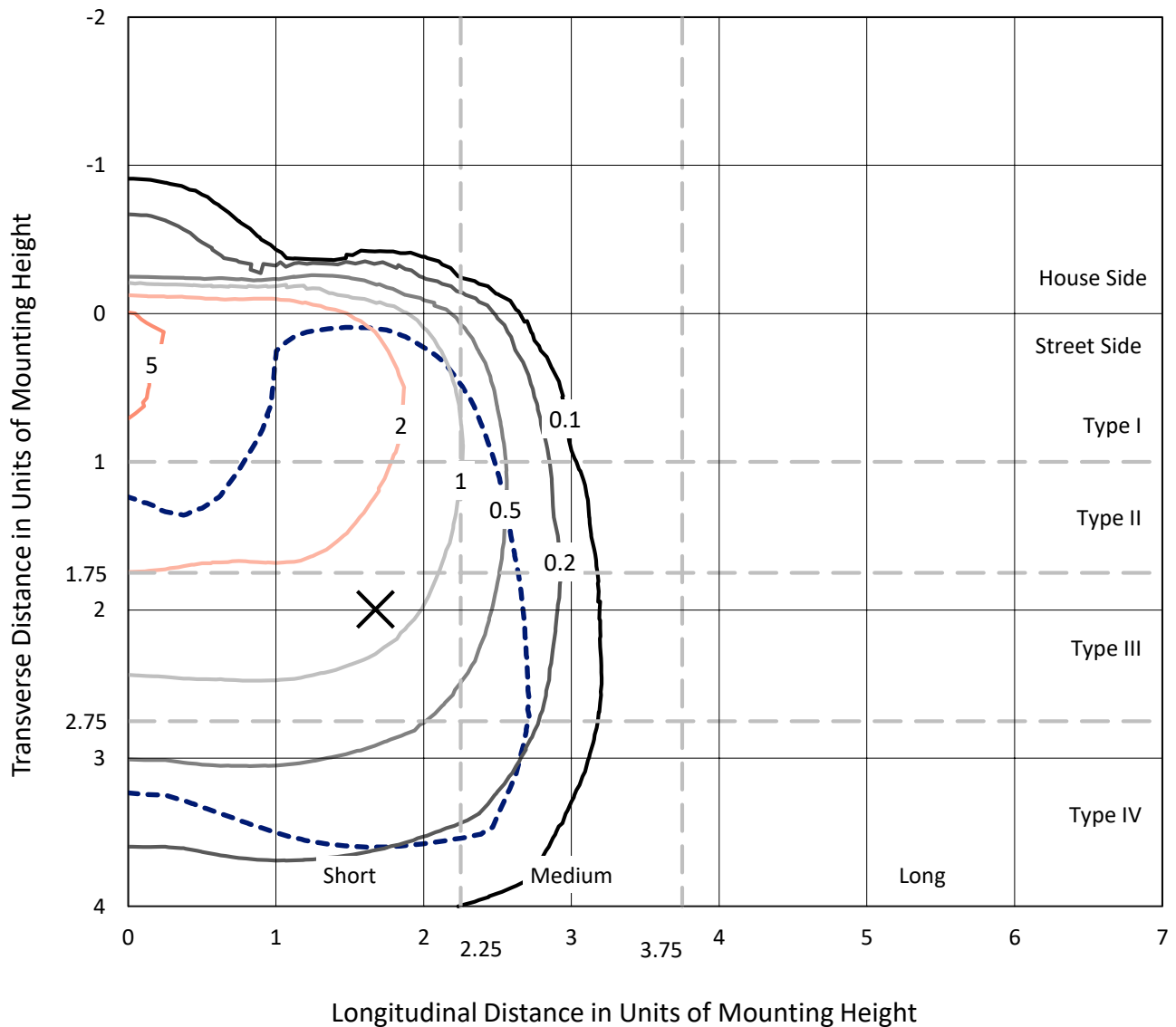


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

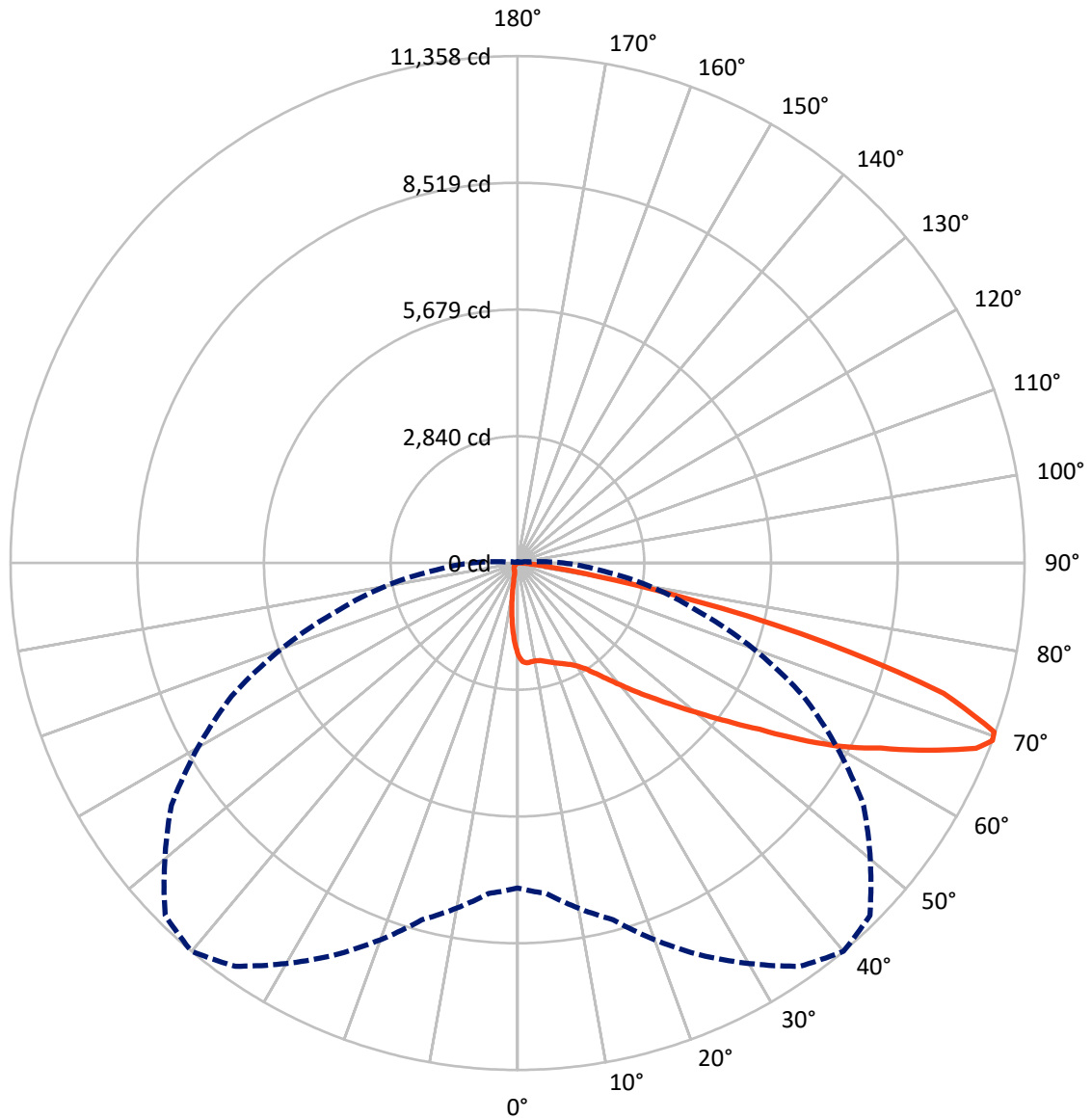


Based on 20 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 808.7 | 0.0 | 808.7 |
| | % Fixture | 5.9 | 0.0 | 5.9 |
| Street Side | Lumens | 13013.5 | 0.0 | 13013.5 |
| | % Fixture | 94.1 | 0.0 | 94.1 |
| Total | Lumens | 13822.2 | 0.0 | 13822.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 167.4 | 1.2 |
| 10°-20° | 411.8 | 3.0 |
| 20°-30° | 693.6 | 5.0 |
| 30°-40° | 1135.4 | 8.2 |
| 40°-50° | 1965.8 | 14.2 |
| 50°-60° | 3096.4 | 22.4 |
| 60°-70° | 4043.8 | 29.3 |
| 70°-80° | 2082.7 | 15.1 |
| 80°-90° | 225.3 | 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° | 13822.2 | 100.0 |
| 0°-180° | 13822.2 | 100.0 |

Coefficient of Utilization



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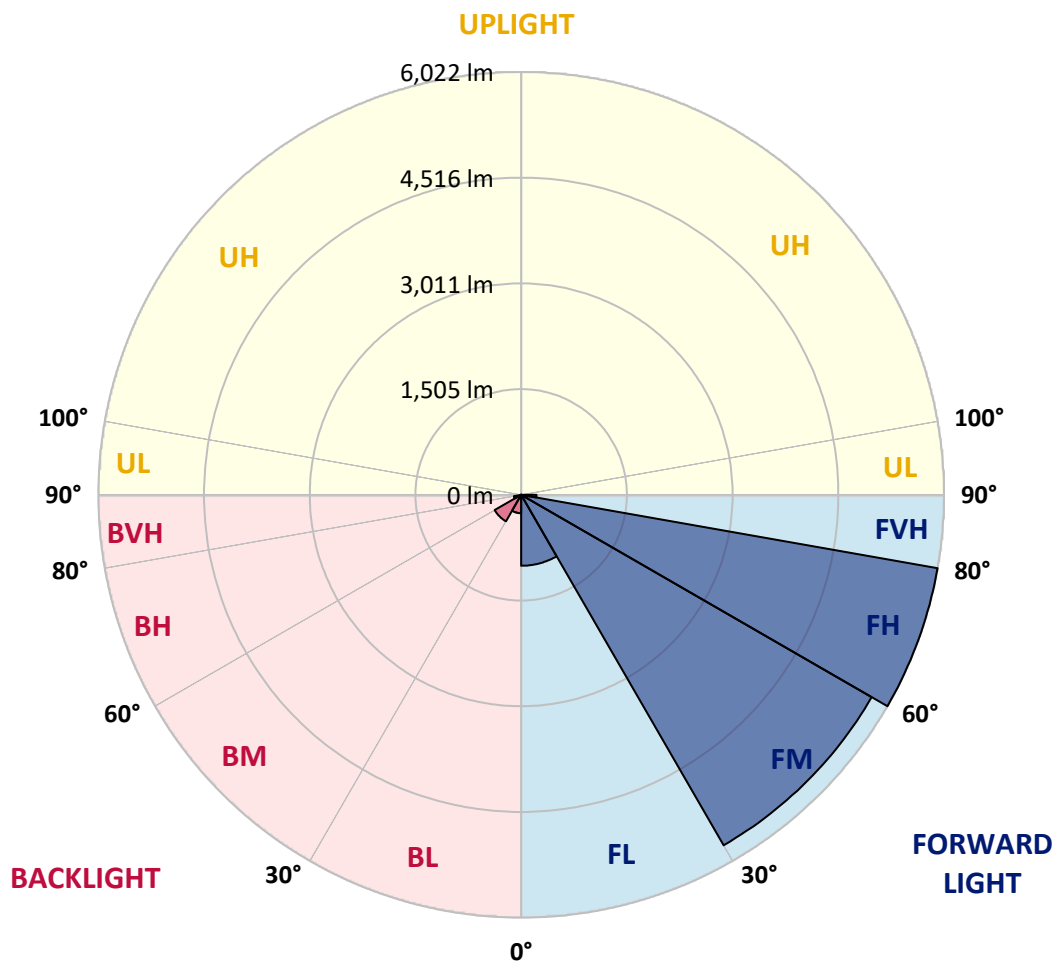
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1010.8 | 7.3 | | | |
| FM | (30°-60°) | 5763.0 | 41.7 | | | |
| FH | (60°-80°) | 6021.5 | 43.6 | | | G3/7500 |
| FVH | (80°-90°) | 218.2 | 1.6 | | | G2/225 |
| BL | (0°-30°) | 262.0 | 1.9 | B1/500 | | |
| BM | (30°-60°) | 434.6 | 3.1 | B1/1000 | | |
| BH | (60°-80°) | 105.0 | 0.8 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 7.1 | 0.1 | | | 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° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 2065.2 | 2065.2 | 2065.2 | 2065.2 | 2065.2 | 2065.2 | 2065.2 | 2065.2 | 2065.2 | 2065.2 | 2065.2 |
| 2.5° | 2267.5 | 2255.1 | 2247.7 | 2237.9 | 2225.6 | 2214.9 | 2210.6 | 2180.2 | 2151.5 | 2112.1 | 2066.7 |
| 5° | 2309.5 | 2305.3 | 2292.1 | 2279.0 | 2264.2 | 2247.7 | 2238.7 | 2202.6 | 2161.4 | 2103.8 | 2024.8 |
| 7.5° | 2313.6 | 2308.6 | 2292.1 | 2274.1 | 2253.5 | 2233.7 | 2218.2 | 2182.0 | 2144.1 | 2085.7 | 1989.4 |
| 10° | 2306.9 | 2301.3 | 2288.9 | 2269.2 | 2243.6 | 2224.7 | 2209.1 | 2174.5 | 2142.5 | 2089.7 | 1982.7 |
| 12.5° | 2299.7 | 2293.8 | 2288.1 | 2278.2 | 2256.1 | 2242.8 | 2229.7 | 2196.7 | 2168.0 | 2123.6 | 2006.8 |
| 15° | 2306.9 | 2303.8 | 2310.4 | 2306.2 | 2293.8 | 2282.4 | 2269.2 | 2239.6 | 2213.2 | 2176.1 | 2050.3 |
| 17.5° | 2338.3 | 2338.3 | 2358.8 | 2361.4 | 2349.7 | 2333.3 | 2314.5 | 2284.7 | 2262.7 | 2231.3 | 2102.2 |
| 20° | 2411.5 | 2409.1 | 2435.3 | 2440.2 | 2412.3 | 2386.7 | 2358.8 | 2322.7 | 2305.3 | 2285.6 | 2153.1 |
| 22.5° | 2537.4 | 2525.9 | 2541.5 | 2536.5 | 2481.4 | 2442.0 | 2407.4 | 2362.9 | 2353.9 | 2344.8 | 2209.9 |
| 25° | 2701.2 | 2694.6 | 2705.2 | 2656.6 | 2559.6 | 2506.1 | 2464.9 | 2414.7 | 2414.7 | 2423.8 | 2274.1 |
| 27.5° | 2938.8 | 2914.2 | 2878.0 | 2792.4 | 2646.8 | 2578.6 | 2534.1 | 2480.6 | 2494.7 | 2528.3 | 2358.8 |
| 30° | 3182.4 | 3155.2 | 3072.2 | 2940.5 | 2752.9 | 2681.4 | 2629.5 | 2573.6 | 2606.5 | 2668.1 | 2472.3 |
| 32.5° | 3422.6 | 3392.2 | 3274.5 | 3108.3 | 2905.2 | 2833.6 | 2783.4 | 2721.7 | 2776.8 | 2880.4 | 2638.6 |
| 35° | 3655.6 | 3628.3 | 3492.6 | 3296.8 | 3107.5 | 3048.3 | 3002.2 | 2948.7 | 3019.6 | 3164.3 | 2873.0 |
| 37.5° | 3917.1 | 3887.5 | 3722.1 | 3509.9 | 3353.6 | 3310.8 | 3277.0 | 3223.6 | 3346.9 | 3559.3 | 3199.8 |
| 40° | 4238.8 | 4188.6 | 3965.7 | 3754.2 | 3638.2 | 3617.7 | 3594.6 | 3587.2 | 3778.9 | 4072.6 | 3634.9 |
| 42.5° | 4607.3 | 4525.1 | 4220.7 | 4011.7 | 3950.8 | 3965.7 | 3959.9 | 3992.8 | 4319.4 | 4711.2 | 4164.8 |
| 45° | 4976.0 | 4869.9 | 4504.6 | 4286.5 | 4294.7 | 4346.5 | 4378.7 | 4510.3 | 4996.6 | 5443.3 | 4735.0 |
| 47.5° | 5288.6 | 5184.2 | 4776.8 | 4583.5 | 4682.2 | 4784.4 | 4871.5 | 5120.8 | 5692.6 | 6164.1 | 5178.4 |
| 50° | 5556.0 | 5457.4 | 5065.7 | 4910.1 | 5132.3 | 5296.9 | 5438.3 | 5807.8 | 6441.3 | 6712.9 | 5489.5 |
| 52.5° | 5774.9 | 5709.1 | 5365.1 | 5284.5 | 5646.6 | 5887.6 | 6094.9 | 6537.5 | 7104.4 | 7158.8 | 5731.2 |
| 55° | 5988.0 | 5941.1 | 5686.9 | 5729.7 | 6250.4 | 6578.7 | 6841.2 | 7311.8 | 7675.5 | 7530.6 | 5963.3 |
| 57.5° | 6233.2 | 6190.4 | 6053.8 | 6294.1 | 7044.4 | 7457.4 | 7743.7 | 7998.0 | 8178.2 | 7910.7 | 6182.1 |
| 60° | 6483.2 | 6458.6 | 6461.9 | 6921.0 | 7956.0 | 8352.6 | 8510.5 | 8576.4 | 8671.8 | 8268.7 | 6194.5 |
| 62.5° | 6721.8 | 6768.8 | 6928.4 | 7618.6 | 8828.9 | 9133.3 | 9213.1 | 9278.1 | 9166.2 | 8325.4 | 5723.0 |
| 65° | 7125.9 | 7202.4 | 7583.3 | 8552.6 | 9789.1 | 10114.9 | 10197.2 | 9974.2 | 9244.5 | 7591.5 | 4655.1 |
| 67.5° | 7323.3 | 7463.2 | 8142.7 | 9423.0 | 10720.5 | 11082.5 | 11052.0 | 10019.4 | 8295.8 | 5788.9 | 2987.5 |
| 69° | 7282.2 | 7431.0 | 8272.0 | 9689.6 | 11029.7 | 11358.1 | 11164.8 | 9465.8 | 7067.4 | 4193.6 | 1833.9 |
| 70° | 7119.2 | 7269.9 | 8205.3 | 9679.6 | 11069.4 | 11329.3 | 10955.8 | 8782.1 | 5975.6 | 3066.5 | 1147.0 |
| 72.5° | 5945.3 | 6075.1 | 7284.6 | 8749.1 | 10197.2 | 9985.7 | 9165.4 | 6084.3 | 2911.8 | 835.2 | 258.4 |
| 75° | 3659.7 | 3732.0 | 5227.0 | 6591.0 | 7701.8 | 7158.8 | 6106.5 | 3026.8 | 868.0 | 236.2 | 143.2 |
| 77.5° | 1933.4 | 1966.4 | 2861.6 | 3885.0 | 4882.2 | 4039.7 | 3129.8 | 1180.6 | 399.8 | 148.1 | 103.7 |
| 80° | 1142.9 | 1167.4 | 1541.0 | 1776.3 | 2112.9 | 1764.8 | 1251.3 | 724.8 | 286.3 | 93.0 | 92.2 |
| 82.5° | 654.1 | 669.7 | 1117.3 | 987.2 | 832.5 | 710.9 | 622.9 | 687.1 | 171.9 | 62.5 | 95.4 |
| 85° | 240.2 | 243.5 | 628.5 | 751.2 | 495.2 | 294.6 | 309.3 | 569.3 | 46.1 | 39.4 | 74.9 |
| 87.5° | 111.8 | 109.5 | 323.3 | 459.9 | 289.7 | 186.8 | 241.0 | 125.0 | 18.1 | 25.5 | 20.7 |
| 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° | 2065.2 | 2065.2 | 2065.2 | 2065.2 | 2065.2 | 2065.2 | 2065.2 | 2065.2 | 2065.2 | 2065.2 | 2065.2 |
| 2.5° | 2040.4 | 2010.0 | 1954.8 | 1898.1 | 1840.4 | 1796.2 | 1752.5 | 1717.9 | 1706.4 | 1685.0 | 1686.7 |
| 5° | 1977.9 | 1922.0 | 1806.9 | 1689.9 | 1568.3 | 1467.8 | 1373.1 | 1296.7 | 1259.7 | 1221.8 | 1221.8 |
| 7.5° | 1923.6 | 1842.2 | 1662.0 | 1472.0 | 1275.2 | 1109.9 | 960.9 | 849.1 | 787.4 | 738.0 | 737.1 |
| 10° | 1903.0 | 1792.7 | 1541.0 | 1268.6 | 994.8 | 769.3 | 592.4 | 478.8 | 420.4 | 382.6 | 380.9 |
| 12.5° | 1912.1 | 1775.5 | 1448.1 | 1081.1 | 737.1 | 494.4 | 343.2 | 269.9 | 245.1 | 233.6 | 233.6 |
| 15° | 1938.5 | 1770.6 | 1355.1 | 897.6 | 520.7 | 309.3 | 227.9 | 208.1 | 206.5 | 206.5 | 206.5 |
| 17.5° | 1970.5 | 1772.1 | 1259.7 | 719.2 | 354.7 | 221.3 | 196.5 | 194.2 | 195.8 | 195.8 | 195.8 |
| 20° | 2003.4 | 1773.1 | 1156.7 | 553.7 | 250.1 | 192.5 | 185.1 | 184.3 | 185.9 | 185.9 | 186.8 |
| 22.5° | 2043.7 | 1777.1 | 1053.9 | 413.8 | 206.5 | 181.8 | 176.1 | 176.1 | 176.8 | 176.8 | 176.1 |
| 25° | 2089.7 | 1785.4 | 947.1 | 307.0 | 188.5 | 174.5 | 169.5 | 168.6 | 169.5 | 168.6 | 167.9 |
| 27.5° | 2147.4 | 1796.9 | 827.7 | 240.2 | 180.2 | 167.1 | 163.0 | 163.0 | 162.1 | 161.2 | 160.4 |
| 30° | 2219.8 | 1810.1 | 693.6 | 204.1 | 171.9 | 160.4 | 156.3 | 155.4 | 154.7 | 153.0 | 153.0 |
| 32.5° | 2330.1 | 1838.8 | 561.1 | 185.1 | 163.0 | 151.4 | 148.1 | 148.1 | 146.5 | 144.7 | 144.0 |
| 35° | 2499.5 | 1895.7 | 442.7 | 173.6 | 153.0 | 141.6 | 137.4 | 137.4 | 135.7 | 134.9 | 134.0 |
| 37.5° | 2734.0 | 1982.0 | 344.0 | 163.0 | 143.2 | 130.9 | 126.8 | 125.9 | 124.2 | 122.6 | 121.8 |
| 40° | 3045.9 | 2089.0 | 270.7 | 153.0 | 133.3 | 120.2 | 116.8 | 115.3 | 111.8 | 109.5 | 109.5 |
| 42.5° | 3437.5 | 2210.6 | 219.6 | 142.3 | 121.8 | 110.2 | 107.7 | 105.3 | 99.5 | 97.0 | 96.3 |
| 45° | 3847.3 | 2320.1 | 185.9 | 130.0 | 110.2 | 100.4 | 98.8 | 94.6 | 87.2 | 84.7 | 84.7 |
| 47.5° | 4142.5 | 2345.7 | 163.8 | 118.4 | 99.5 | 89.7 | 88.8 | 81.4 | 74.9 | 73.2 | 72.5 |
| 50° | 4326.9 | 2295.4 | 145.6 | 107.0 | 89.7 | 79.8 | 77.3 | 68.4 | 64.1 | 62.5 | 61.8 |
| 52.5° | 4451.1 | 2205.8 | 130.9 | 97.0 | 80.7 | 70.7 | 64.9 | 58.4 | 55.2 | 53.4 | 53.4 |
| 55° | 4550.6 | 2079.0 | 116.1 | 88.0 | 73.2 | 63.3 | 55.2 | 50.1 | 46.9 | 45.3 | 45.3 |
| 57.5° | 4578.7 | 1907.1 | 101.1 | 80.7 | 65.8 | 56.0 | 46.9 | 43.6 | 39.4 | 38.6 | 38.6 |
| 60° | 4375.5 | 1596.9 | 89.7 | 71.5 | 59.3 | 48.6 | 41.1 | 37.0 | 32.9 | 32.1 | 31.4 |
| 62.5° | 3839.7 | 1235.8 | 79.1 | 63.3 | 51.8 | 42.0 | 35.4 | 30.5 | 27.2 | 27.2 | 27.2 |
| 65° | 2929.1 | 828.4 | 69.1 | 55.2 | 45.3 | 35.4 | 30.5 | 24.7 | 23.0 | 23.0 | 23.9 |
| 67.5° | 1753.3 | 450.9 | 59.3 | 46.9 | 38.6 | 29.6 | 25.5 | 21.4 | 20.7 | 21.4 | 21.4 |
| 69° | 1027.7 | 264.9 | 53.4 | 42.0 | 33.7 | 26.3 | 22.2 | 19.0 | 20.7 | 21.4 | 21.4 |
| 70° | 634.4 | 178.6 | 49.3 | 37.9 | 30.5 | 23.9 | 20.7 | 18.1 | 19.8 | 20.7 | 20.7 |
| 72.5° | 176.8 | 92.2 | 39.4 | 29.6 | 24.7 | 19.8 | 16.4 | 16.4 | 19.0 | 19.8 | 19.8 |
| 75° | 115.3 | 68.4 | 30.5 | 22.2 | 19.0 | 15.6 | 14.1 | 15.6 | 18.1 | 19.0 | 19.0 |
| 77.5° | 95.4 | 56.0 | 24.7 | 18.1 | 15.6 | 14.8 | 13.1 | 14.1 | 16.4 | 17.2 | 17.2 |
| 80° | 87.2 | 39.4 | 19.8 | 16.4 | 14.1 | 13.1 | 12.3 | 11.5 | 14.8 | 15.6 | 15.6 |
| 82.5° | 83.2 | 31.4 | 17.2 | 14.8 | 13.1 | 11.5 | 10.7 | 11.5 | 13.1 | 14.1 | 14.8 |
| 85° | 51.8 | 20.7 | 15.6 | 14.1 | 11.5 | 10.7 | 10.7 | 10.7 | 12.3 | 13.1 | 13.1 |
| 87.5° | 19.0 | 16.4 | 14.1 | 11.5 | 9.9 | 9.9 | 9.9 | 9.9 | 10.7 | 12.3 | 12.3 |
| 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)