

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: P266765

Luminaire Tested: **GAN-AF-03-LED-U-SL4-7027-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-SL4-7027-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16457.5 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 191
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

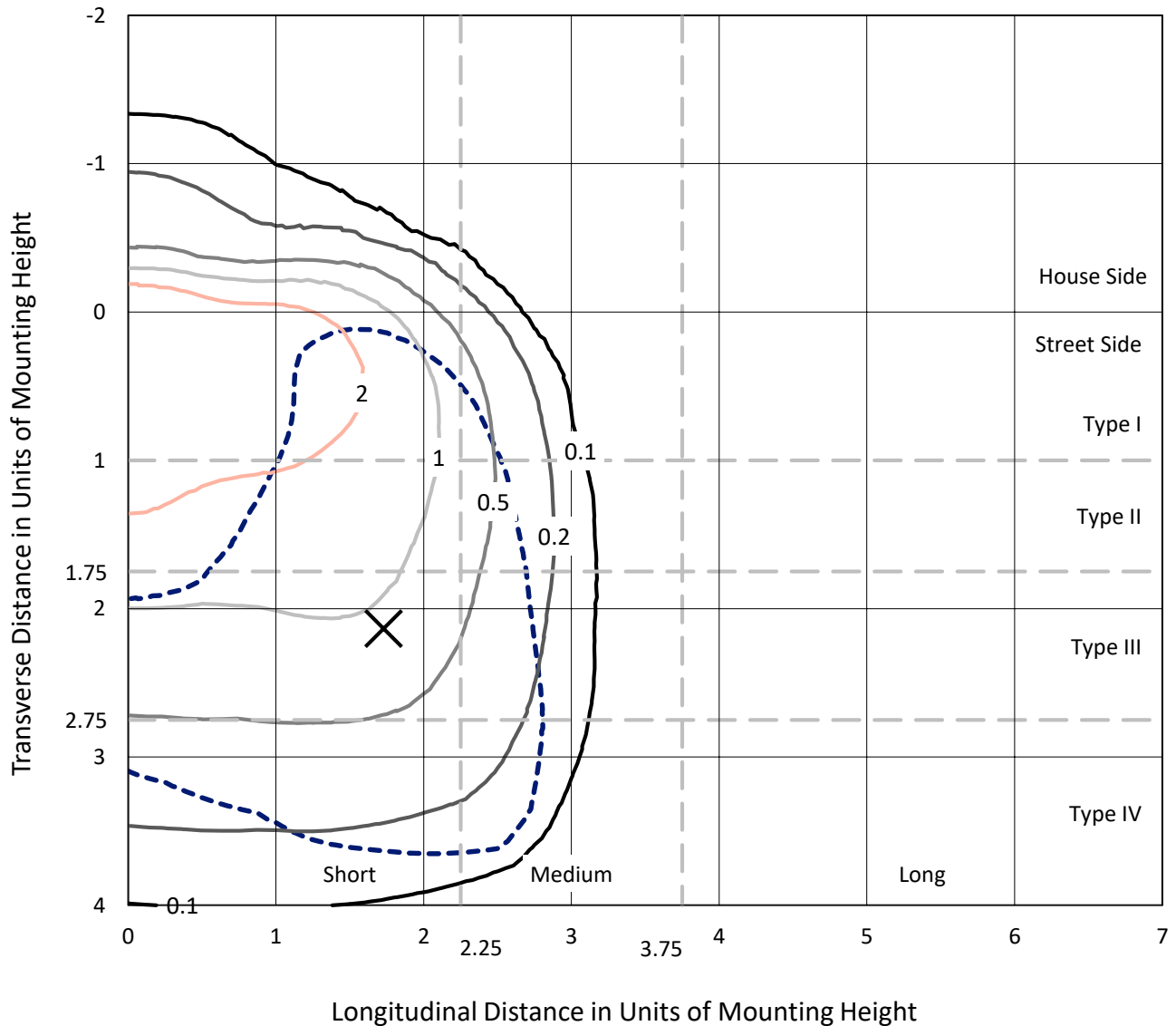


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

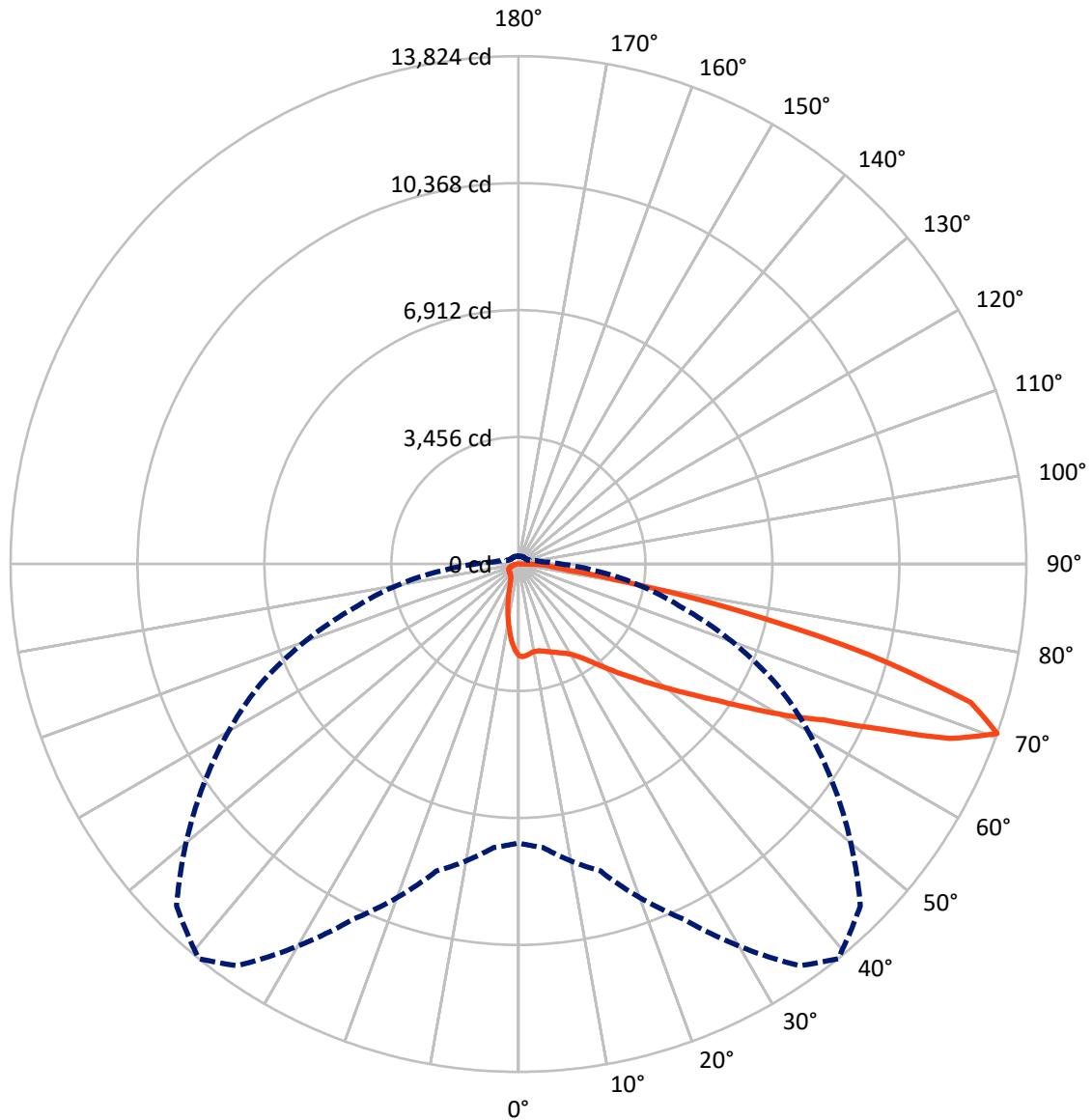


Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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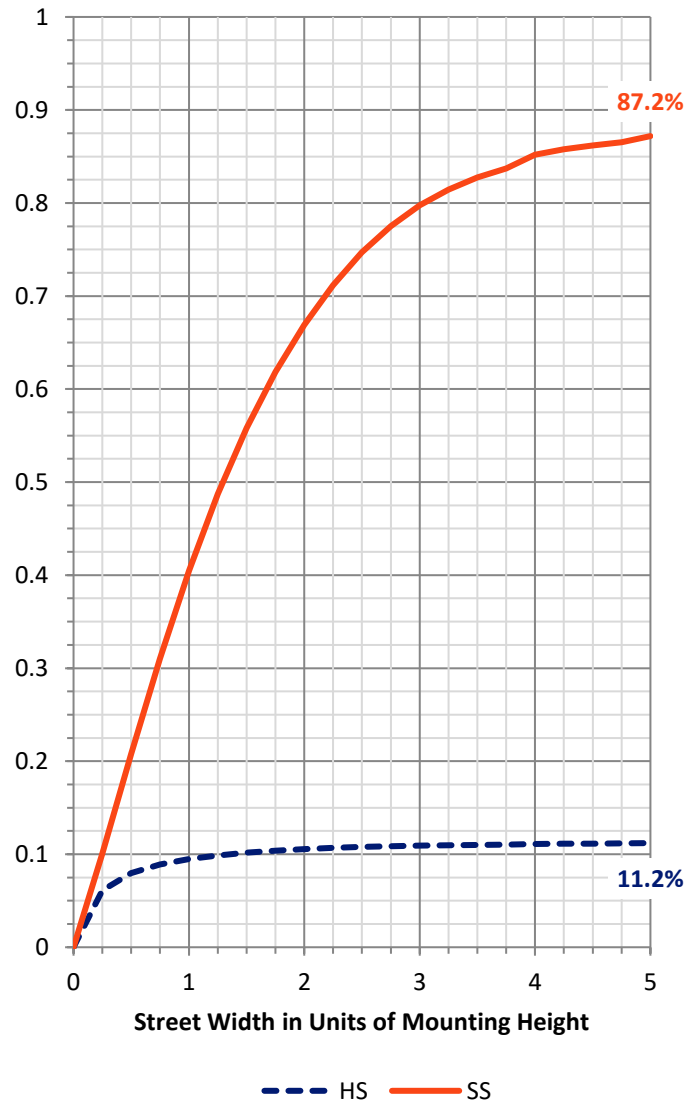
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1871.8 | 0.0 | 1871.8 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 14585.7 | 0.0 | 14585.7 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 16457.5 | 0.0 | 16457.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 214.4 | 1.3 |
| 10°-20° | 536.0 | 3.3 |
| 20°-30° | 834.5 | 5.1 |
| 30°-40° | 1300.0 | 7.9 |
| 40°-50° | 2182.5 | 13.3 |
| 50°-60° | 3467.1 | 21.1 |
| 60°-70° | 4624.7 | 28.1 |
| 70°-80° | 2792.8 | 17.0 |
| 80°-90° | 505.5 | 3.1 |
| 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° | 16457.5 | 100.0 |
| 0°-180° | 16457.5 | 100.0 |



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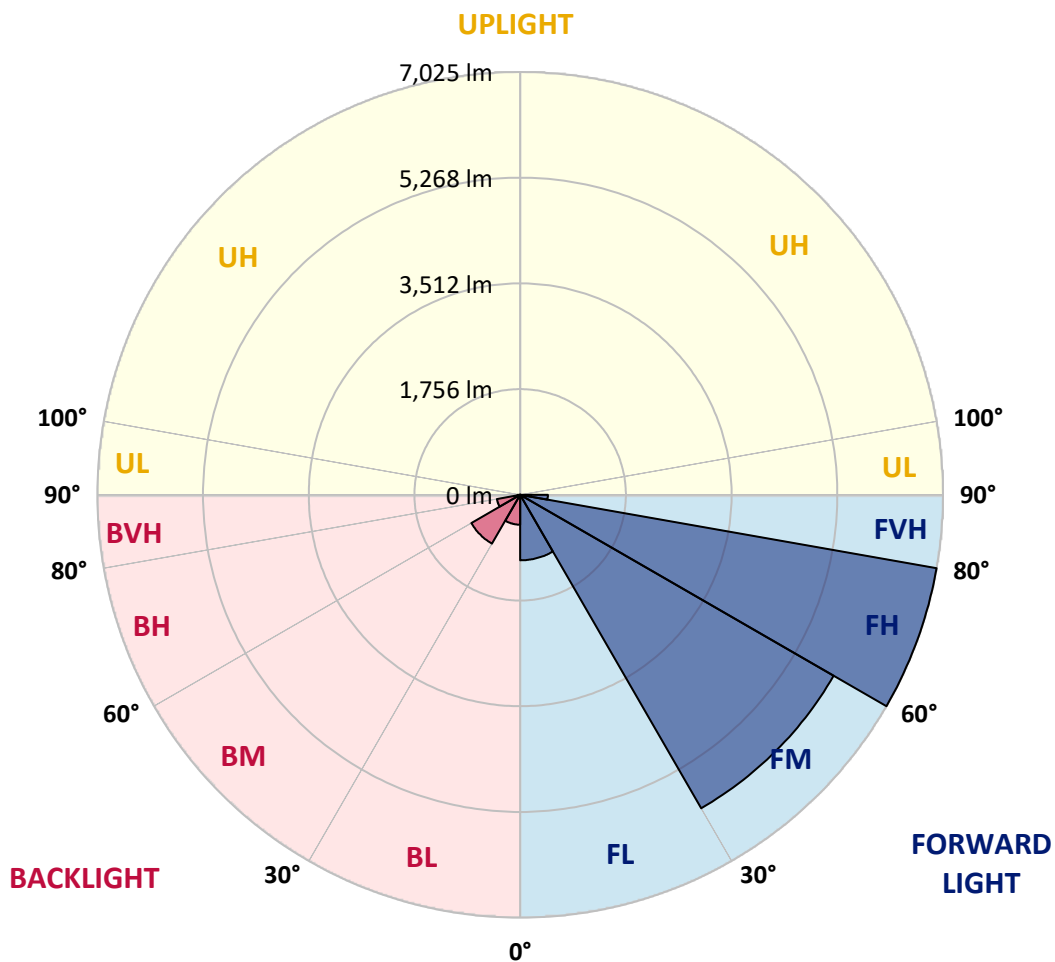
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1088.4 | 6.6 | | | |
| FM | (30°-60°) | 6012.9 | 36.5 | | | |
| FH | (60°-80°) | 7024.5 | 42.7 | | | G3/7500 |
| FVH | (80°-90°) | 459.9 | 2.8 | | | G3/500 |
| BL | (0°-30°) | 496.5 | 3.0 | B1/500 | | |
| BM | (30°-60°) | 936.7 | 5.7 | B1/1000 | | |
| BH | (60°-80°) | 393.0 | 2.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 45.6 | 0.3 | | | G1/100 |
| 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° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 2498.5 | 2498.5 | 2498.5 | 2498.5 | 2498.5 | 2498.5 | 2498.5 | 2498.5 | 2498.5 | 2498.5 | 2498.5 |
| 2.5° | 2547.1 | 2546.2 | 2539.5 | 2534.5 | 2530.3 | 2528.5 | 2532.0 | 2519.4 | 2508.5 | 2495.1 | 2480.8 |
| 5° | 2527.8 | 2526.9 | 2516.1 | 2506.0 | 2496.0 | 2492.6 | 2491.8 | 2469.3 | 2455.8 | 2435.8 | 2409.0 |
| 7.5° | 2506.9 | 2502.7 | 2488.5 | 2471.7 | 2454.2 | 2445.7 | 2437.5 | 2408.1 | 2393.1 | 2373.1 | 2342.1 |
| 10° | 2485.2 | 2480.1 | 2466.7 | 2449.9 | 2433.1 | 2420.8 | 2406.5 | 2378.1 | 2362.2 | 2347.0 | 2311.1 |
| 12.5° | 2462.6 | 2458.3 | 2455.0 | 2447.4 | 2435.8 | 2424.9 | 2413.9 | 2389.8 | 2373.1 | 2355.4 | 2313.6 |
| 15° | 2459.2 | 2457.6 | 2464.9 | 2470.1 | 2463.3 | 2456.7 | 2444.9 | 2424.0 | 2406.5 | 2389.0 | 2334.4 |
| 17.5° | 2486.0 | 2485.2 | 2504.4 | 2517.8 | 2514.4 | 2502.7 | 2486.8 | 2463.3 | 2449.0 | 2434.0 | 2366.2 |
| 20° | 2544.4 | 2548.8 | 2572.1 | 2589.8 | 2572.9 | 2556.2 | 2530.3 | 2497.6 | 2490.1 | 2483.5 | 2399.0 |
| 22.5° | 2655.0 | 2659.2 | 2676.0 | 2682.6 | 2639.1 | 2614.7 | 2578.9 | 2537.1 | 2532.0 | 2537.1 | 2438.3 |
| 25° | 2827.3 | 2823.2 | 2820.7 | 2795.5 | 2716.0 | 2678.3 | 2632.4 | 2588.8 | 2591.4 | 2614.0 | 2493.4 |
| 27.5° | 3055.8 | 3033.1 | 2998.1 | 2922.7 | 2796.3 | 2754.6 | 2698.5 | 2658.4 | 2674.3 | 2717.7 | 2576.2 |
| 30° | 3292.6 | 3267.4 | 3186.3 | 3063.3 | 2901.9 | 2855.8 | 2793.0 | 2747.8 | 2789.6 | 2858.2 | 2686.8 |
| 32.5° | 3511.8 | 3508.4 | 3389.7 | 3231.6 | 3047.4 | 3007.3 | 2944.5 | 2893.4 | 2961.3 | 3065.8 | 2852.5 |
| 35° | 3751.1 | 3758.6 | 3616.3 | 3426.4 | 3244.0 | 3202.2 | 3157.1 | 3118.6 | 3208.8 | 3352.8 | 3092.5 |
| 37.5° | 4007.1 | 4022.3 | 3854.0 | 3639.8 | 3468.3 | 3450.7 | 3423.9 | 3407.2 | 3547.0 | 3746.1 | 3428.1 |
| 40° | 4349.4 | 4334.3 | 4100.9 | 3880.8 | 3743.5 | 3742.7 | 3734.3 | 3754.5 | 3987.0 | 4259.9 | 3858.9 |
| 42.5° | 4715.8 | 4671.5 | 4362.8 | 4139.3 | 4045.6 | 4074.1 | 4090.8 | 4172.7 | 4516.7 | 4884.1 | 4384.4 |
| 45° | 5110.7 | 5011.3 | 4634.6 | 4413.0 | 4381.2 | 4441.4 | 4498.4 | 4676.5 | 5140.1 | 5594.5 | 4960.3 |
| 47.5° | 5426.2 | 5330.1 | 4915.9 | 4699.9 | 4769.5 | 4860.5 | 4970.2 | 5252.2 | 5837.9 | 6328.3 | 5528.3 |
| 50° | 5674.8 | 5612.0 | 5199.5 | 5034.6 | 5197.0 | 5337.5 | 5516.6 | 5904.0 | 6564.3 | 7042.8 | 6054.7 |
| 52.5° | 5915.8 | 5868.8 | 5485.7 | 5377.8 | 5699.0 | 5893.2 | 6136.6 | 6603.5 | 7308.9 | 7745.6 | 6497.4 |
| 55° | 6133.3 | 6099.9 | 5793.6 | 5805.2 | 6289.8 | 6542.4 | 6848.7 | 7400.1 | 8120.6 | 8372.5 | 6872.2 |
| 57.5° | 6378.4 | 6335.7 | 6145.0 | 6341.7 | 7048.7 | 7376.7 | 7775.0 | 8295.4 | 8882.0 | 8929.7 | 7157.4 |
| 60° | 6625.3 | 6588.4 | 6534.9 | 6960.8 | 8012.6 | 8357.3 | 8734.7 | 9163.2 | 9654.3 | 9362.2 | 7140.7 |
| 62.5° | 6839.4 | 6843.6 | 6938.1 | 7611.0 | 8956.5 | 9355.6 | 9815.8 | 10239.2 | 10353.0 | 9437.6 | 6612.8 |
| 65° | 7202.6 | 7268.7 | 7550.8 | 8531.5 | 10285.1 | 10819.0 | 11383.9 | 11316.0 | 10546.2 | 8734.0 | 5480.6 |
| 67.5° | 7634.3 | 7750.7 | 8322.2 | 9758.1 | 11964.5 | 12673.3 | 12891.7 | 11559.5 | 9772.2 | 7099.8 | 3906.6 |
| 70° | 7590.9 | 7750.7 | 8655.2 | 10672.7 | 13348.5 | 13823.7 | 13161.1 | 10461.8 | 7759.9 | 4638.0 | 2075.2 |
| 72.5° | 6740.7 | 6969.2 | 7976.6 | 10253.4 | 12912.5 | 12870.7 | 11425.6 | 7799.3 | 4610.5 | 1862.5 | 810.8 |
| 75° | 5137.5 | 5368.5 | 6235.3 | 8100.5 | 10205.7 | 9854.2 | 8107.2 | 4308.5 | 1749.5 | 739.7 | 511.2 |
| 77.5° | 2955.3 | 3134.5 | 3803.9 | 4967.6 | 6474.7 | 6114.0 | 4512.5 | 1916.2 | 851.9 | 515.4 | 399.1 |
| 80° | 1650.0 | 1749.5 | 2156.3 | 2520.3 | 3173.0 | 2908.5 | 2019.0 | 1190.7 | 635.9 | 374.1 | 307.8 |
| 82.5° | 1304.5 | 1393.2 | 1743.8 | 1589.8 | 1449.2 | 1337.0 | 1159.7 | 1060.2 | 507.9 | 236.0 | 184.2 |
| 85° | 1139.6 | 1224.1 | 1476.1 | 1251.8 | 989.8 | 907.8 | 942.1 | 1043.4 | 395.0 | 142.2 | 157.4 |
| 87.5° | 1056.0 | 1169.0 | 1315.4 | 964.8 | 770.7 | 682.8 | 869.4 | 1143.8 | 127.2 | 88.8 | 63.6 |
| 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° | 2498.5 | 2498.5 | 2498.5 | 2498.5 | 2498.5 | 2498.5 | 2498.5 | 2498.5 | 2498.5 | 2498.5 | 2498.5 |
| 2.5° | 2468.5 | 2455.0 | 2433.1 | 2413.9 | 2383.8 | 2367.9 | 2350.3 | 2337.8 | 2327.8 | 2319.5 | 2332.8 |
| 5° | 2392.2 | 2367.2 | 2321.1 | 2271.8 | 2213.2 | 2167.2 | 2128.7 | 2092.7 | 2067.5 | 2050.8 | 2062.6 |
| 7.5° | 2320.3 | 2279.3 | 2207.3 | 2117.8 | 2017.4 | 1932.1 | 1861.7 | 1799.8 | 1757.2 | 1729.5 | 1740.5 |
| 10° | 2279.3 | 2228.2 | 2116.9 | 1976.5 | 1828.3 | 1695.2 | 1584.8 | 1489.4 | 1423.3 | 1385.6 | 1391.6 |
| 12.5° | 2269.3 | 2203.2 | 2049.2 | 1855.9 | 1653.4 | 1468.5 | 1312.9 | 1180.6 | 1087.8 | 1039.2 | 1040.9 |
| 15° | 2276.8 | 2192.3 | 1985.6 | 1740.5 | 1484.4 | 1250.9 | 1056.8 | 896.1 | 788.3 | 732.9 | 732.2 |
| 17.5° | 2289.3 | 2183.9 | 1918.6 | 1615.7 | 1312.9 | 1041.8 | 825.1 | 667.7 | 572.3 | 527.9 | 524.6 |
| 20° | 2302.7 | 2170.6 | 1843.3 | 1481.0 | 1134.6 | 847.6 | 645.9 | 523.0 | 462.6 | 438.5 | 436.8 |
| 22.5° | 2321.9 | 2158.7 | 1765.4 | 1338.7 | 959.7 | 690.3 | 531.3 | 448.6 | 416.8 | 404.1 | 402.5 |
| 25° | 2352.9 | 2152.9 | 1682.6 | 1190.7 | 802.5 | 577.3 | 462.6 | 411.7 | 393.3 | 385.0 | 384.0 |
| 27.5° | 2404.9 | 2161.3 | 1604.8 | 1046.7 | 674.4 | 501.3 | 424.2 | 393.3 | 379.9 | 372.3 | 371.4 |
| 30° | 2471.7 | 2187.3 | 1522.8 | 910.3 | 574.8 | 449.3 | 400.9 | 380.7 | 369.8 | 362.2 | 362.2 |
| 32.5° | 2582.9 | 2230.8 | 1436.7 | 792.3 | 503.7 | 413.3 | 383.2 | 369.8 | 360.6 | 354.8 | 353.9 |
| 35° | 2746.9 | 2312.7 | 1356.4 | 694.5 | 452.7 | 387.3 | 368.1 | 358.2 | 351.4 | 348.2 | 348.2 |
| 37.5° | 2985.4 | 2442.4 | 1285.3 | 624.2 | 421.8 | 369.8 | 353.9 | 346.3 | 342.3 | 342.3 | 342.3 |
| 40° | 3305.9 | 2621.6 | 1227.5 | 577.3 | 404.1 | 357.3 | 343.1 | 337.3 | 334.7 | 335.5 | 335.5 |
| 42.5° | 3701.7 | 2854.2 | 1188.9 | 544.7 | 395.8 | 349.8 | 335.5 | 330.4 | 328.1 | 327.2 | 328.1 |
| 45° | 4152.8 | 3118.6 | 1184.9 | 520.5 | 387.3 | 344.7 | 330.4 | 325.5 | 320.4 | 317.1 | 317.1 |
| 47.5° | 4591.1 | 3387.1 | 1219.1 | 512.0 | 378.1 | 338.9 | 326.4 | 321.4 | 313.8 | 306.2 | 306.2 |
| 50° | 4978.5 | 3615.6 | 1265.2 | 515.4 | 374.9 | 330.4 | 319.6 | 317.1 | 305.5 | 297.0 | 296.3 |
| 52.5° | 5286.5 | 3791.2 | 1302.8 | 525.5 | 378.1 | 324.6 | 311.3 | 312.2 | 299.6 | 290.3 | 289.6 |
| 55° | 5533.4 | 3906.6 | 1292.8 | 535.5 | 385.7 | 321.4 | 303.7 | 305.5 | 295.4 | 286.2 | 286.2 |
| 57.5° | 5641.3 | 3864.1 | 1181.5 | 527.1 | 391.7 | 322.1 | 297.9 | 304.5 | 296.3 | 287.8 | 287.8 |
| 60° | 5409.6 | 3485.1 | 973.1 | 490.4 | 384.0 | 319.6 | 295.4 | 307.8 | 307.1 | 298.7 | 297.9 |
| 62.5° | 4708.3 | 2806.5 | 754.8 | 435.9 | 358.2 | 307.1 | 288.6 | 307.1 | 316.4 | 313.8 | 312.9 |
| 65° | 3629.0 | 1999.0 | 576.5 | 377.4 | 323.0 | 286.2 | 271.1 | 287.8 | 300.5 | 303.7 | 302.9 |
| 67.5° | 2355.4 | 1225.0 | 444.3 | 322.1 | 283.7 | 261.9 | 248.6 | 256.0 | 258.5 | 258.5 | 256.8 |
| 70° | 1158.0 | 659.4 | 353.9 | 271.1 | 243.5 | 236.0 | 228.3 | 224.2 | 220.1 | 216.8 | 216.8 |
| 72.5° | 571.5 | 430.9 | 291.2 | 229.2 | 210.1 | 206.7 | 205.1 | 200.1 | 196.5 | 192.4 | 190.8 |
| 75° | 422.6 | 350.6 | 247.7 | 193.2 | 180.6 | 177.3 | 180.6 | 176.5 | 175.7 | 172.4 | 170.7 |
| 77.5° | 347.3 | 298.7 | 213.3 | 165.6 | 154.8 | 148.8 | 154.0 | 154.8 | 155.6 | 150.6 | 148.8 |
| 80° | 282.0 | 252.8 | 178.3 | 137.3 | 127.2 | 123.0 | 126.3 | 133.0 | 134.7 | 127.2 | 123.8 |
| 82.5° | 203.3 | 206.7 | 143.9 | 107.1 | 98.8 | 95.4 | 102.0 | 110.4 | 112.1 | 101.2 | 98.8 |
| 85° | 170.7 | 172.4 | 110.4 | 76.1 | 67.8 | 62.7 | 73.7 | 81.9 | 87.9 | 77.0 | 74.5 |
| 87.5° | 71.1 | 101.2 | 63.6 | 42.7 | 37.6 | 32.6 | 39.3 | 43.5 | 52.7 | 48.5 | 47.7 |
| 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)