

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: P483929

Luminaire Tested: **IFLD-S-SA3B-730-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483929
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-730-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

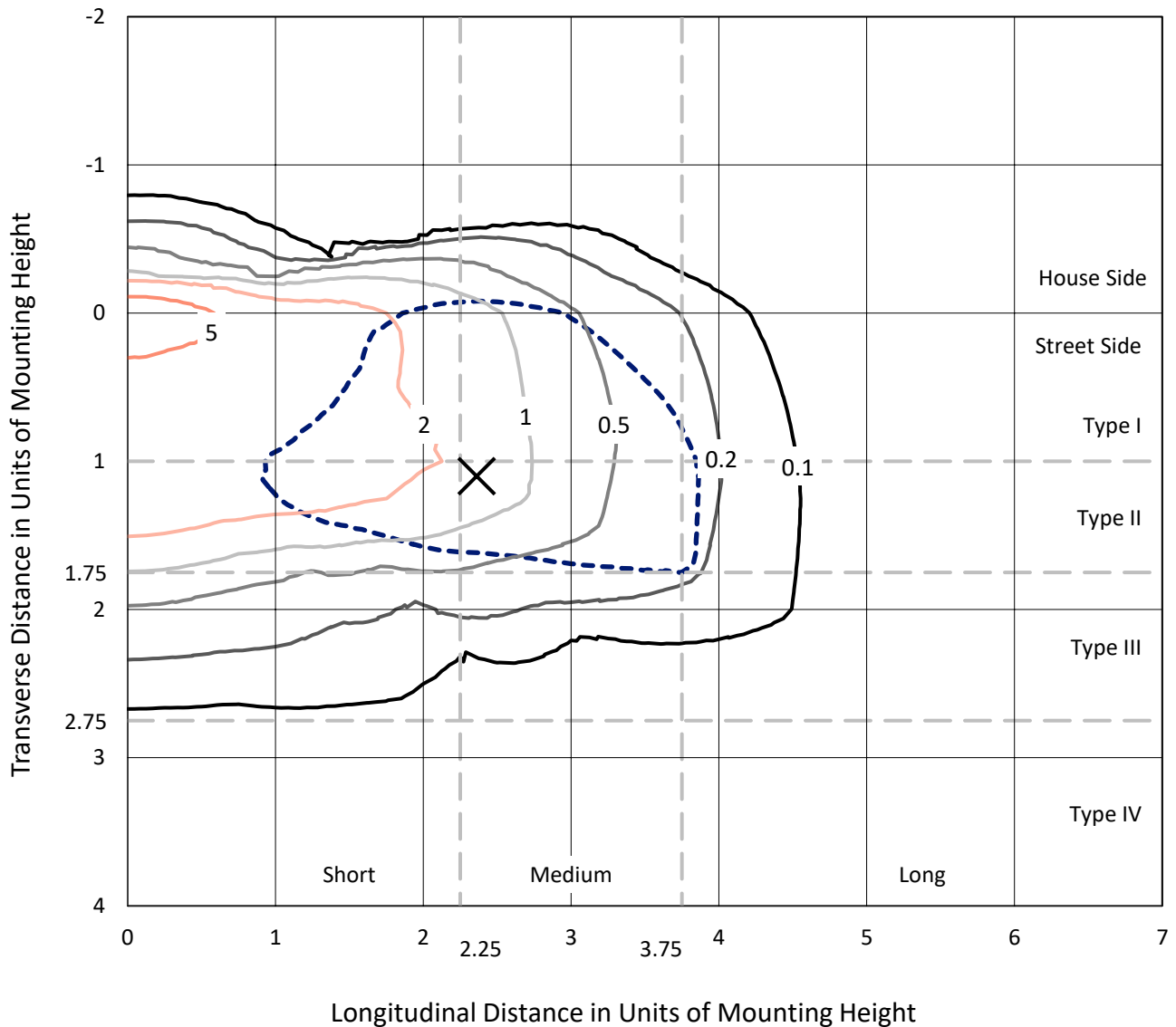
Lumens per Lamp: N/A
Luminaire Lumens: 12752.9 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 122.4
Input Voltage (V): 120
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

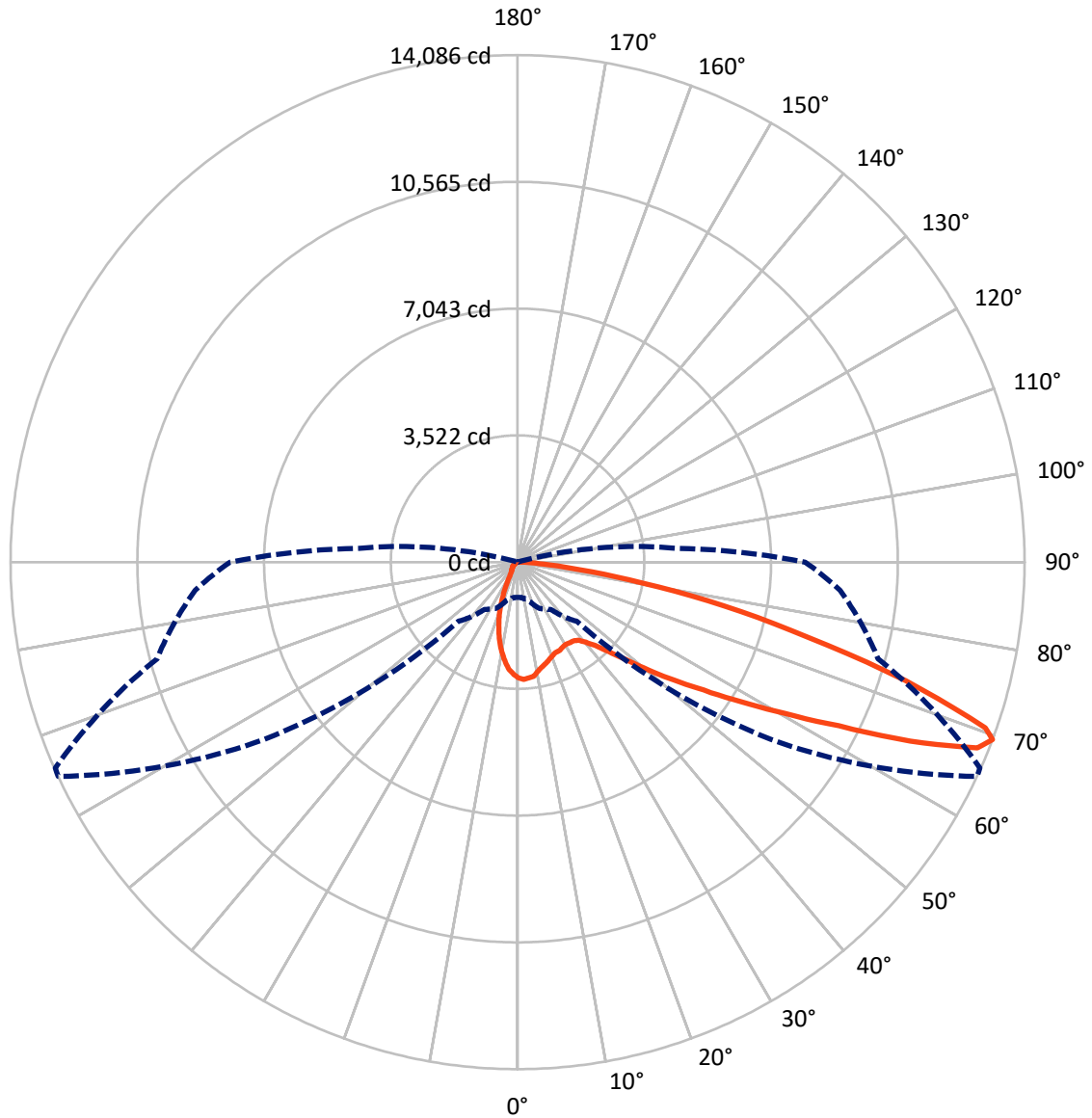
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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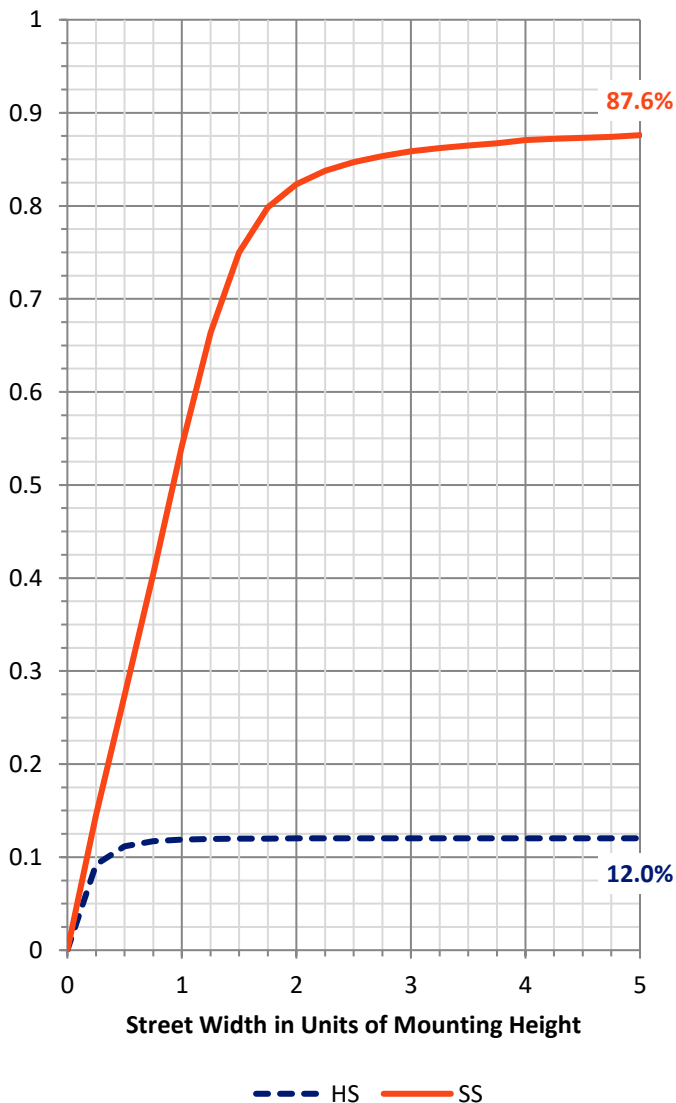
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1547.0 | 0.0 | 1547.0 |
| | % Fixture | 12.1 | 0.0 | 12.1 |
| Street Side | Lumens | 11205.9 | 0.0 | 11205.9 |
| | % Fixture | 87.9 | 0.0 | 87.9 |
| Total | Lumens | 12752.9 | 0.0 | 12752.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 263.1 | 2.1 |
| 10°-20° | 575.7 | 4.5 |
| 20°-30° | 801.5 | 6.3 |
| 30°-40° | 1135.8 | 8.9 |
| 40°-50° | 1790.0 | 14.0 |
| 50°-60° | 2904.5 | 22.8 |
| 60°-70° | 3243.8 | 25.4 |
| 70°-80° | 1826.6 | 14.3 |
| 80°-90° | 211.9 | 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° | 12752.9 | 100.0 |
| 0°-180° | 12752.9 | 100.0 |



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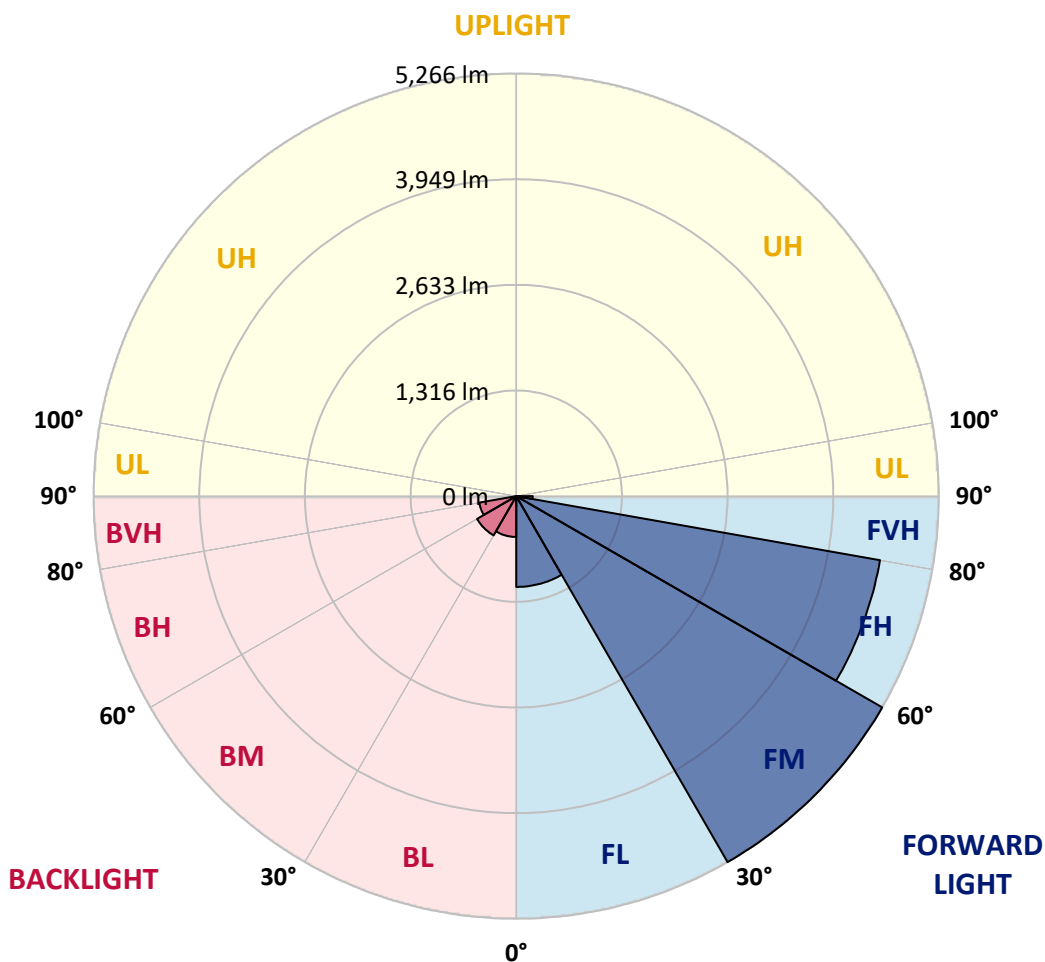
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1131.7 | 8.9 | | | |
| FM (30°-60°) | 5265.8 | 41.3 | | | |
| FH (60°-80°) | 4602.3 | 36.1 | | | G2/5000 |
| FVH (80°-90°) | 206.1 | 1.6 | | | G2/225 |
| BL (0°-30°) | 508.6 | 4.0 | B2/1000 | | |
| BM (30°-60°) | 564.5 | 4.4 | B1/1000 | | |
| BH (60°-80°) | 468.1 | 3.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| 0° | 3215.3 | 3215.3 | 3215.3 | 3215.3 | 3215.3 | 3215.3 | 3215.3 | 3215.3 | 3215.3 | 3215.3 | 3215.3 |
| 2.5° | 3096.6 | 3120.7 | 3127.6 | 3151.7 | 3163.7 | 3215.3 | 3244.5 | 3261.8 | 3253.2 | 3272.1 | 3273.8 |
| 5° | 2876.4 | 2862.6 | 2898.8 | 2924.6 | 2979.6 | 3069.1 | 3160.3 | 3230.8 | 3263.5 | 3294.4 | 3289.3 |
| 7.5° | 2640.7 | 2633.8 | 2670.0 | 2728.4 | 2778.3 | 2886.7 | 3032.9 | 3206.7 | 3199.8 | 3275.5 | 3297.9 |
| 10° | 2479.0 | 2485.9 | 2497.9 | 2556.4 | 2630.4 | 2740.5 | 2922.8 | 3084.6 | 3120.7 | 3280.7 | 3325.4 |
| 12.5° | 2331.1 | 2343.1 | 2365.5 | 2425.7 | 2511.7 | 2625.2 | 2802.4 | 2991.7 | 3046.7 | 3251.4 | 3340.9 |
| 15° | 2282.9 | 2255.4 | 2300.1 | 2344.8 | 2434.3 | 2535.8 | 2685.4 | 2921.1 | 2945.2 | 3217.0 | 3366.7 |
| 17.5° | 2243.3 | 2226.1 | 2246.8 | 2282.9 | 2377.5 | 2460.1 | 2601.1 | 2845.4 | 2890.2 | 3203.3 | 3363.3 |
| 20° | 2255.4 | 2239.9 | 2248.5 | 2276.0 | 2319.0 | 2396.4 | 2527.2 | 2773.2 | 2821.3 | 3139.6 | 3358.1 |
| 22.5° | 2289.8 | 2301.8 | 2286.3 | 2293.2 | 2307.0 | 2346.5 | 2487.6 | 2721.6 | 2762.9 | 3127.6 | 3387.3 |
| 25° | 2444.6 | 2424.0 | 2403.3 | 2394.7 | 2313.8 | 2331.1 | 2475.6 | 2718.1 | 2747.4 | 3084.6 | 3363.3 |
| 27.5° | 2606.3 | 2589.1 | 2580.5 | 2530.6 | 2420.5 | 2368.9 | 2477.3 | 2670.0 | 2709.5 | 3067.4 | 3334.0 |
| 30° | 2802.4 | 2824.8 | 2790.4 | 2730.2 | 2577.1 | 2449.8 | 2496.2 | 2645.9 | 2700.9 | 3002.0 | 3315.1 |
| 32.5° | 3008.9 | 3020.9 | 3038.1 | 2993.4 | 2795.5 | 2571.9 | 2553.0 | 2668.2 | 2671.7 | 3002.0 | 3272.1 |
| 35° | 3242.8 | 3225.6 | 3270.4 | 3273.8 | 3100.0 | 2788.7 | 2661.4 | 2683.7 | 2719.8 | 2988.2 | 3256.6 |
| 37.5° | 3444.1 | 3473.4 | 3525.0 | 3607.5 | 3428.6 | 3094.9 | 2829.9 | 2756.0 | 2771.5 | 3051.9 | 3268.6 |
| 40° | 3664.3 | 3693.6 | 3810.5 | 3893.1 | 3791.6 | 3438.9 | 3086.3 | 2924.6 | 2936.6 | 3146.5 | 3330.6 |
| 42.5° | 3906.9 | 3963.6 | 4103.0 | 4247.5 | 4220.0 | 3875.9 | 3416.6 | 3172.3 | 3167.1 | 3382.2 | 3457.9 |
| 45° | 4235.5 | 4311.2 | 4462.5 | 4629.4 | 4653.5 | 4376.5 | 3857.0 | 3542.2 | 3559.4 | 3690.1 | 3721.1 |
| 47.5° | 4693.1 | 4689.6 | 4837.6 | 5023.4 | 5162.7 | 4896.1 | 4383.4 | 4039.3 | 4037.6 | 4177.0 | 4111.6 |
| 50° | 5135.2 | 5136.9 | 5176.5 | 5391.5 | 5752.8 | 5616.9 | 5035.4 | 4700.0 | 4681.0 | 4749.8 | 4644.9 |
| 52.5° | 5339.9 | 5315.8 | 5286.6 | 5546.4 | 6207.0 | 6525.2 | 5861.2 | 5448.3 | 5432.8 | 5391.5 | 5364.0 |
| 55° | 5124.9 | 5133.5 | 5131.8 | 5401.8 | 6446.1 | 7483.5 | 6920.9 | 6272.3 | 6246.5 | 6117.5 | 6155.4 |
| 57.5° | 4435.0 | 4407.5 | 4467.7 | 4889.2 | 6172.6 | 8137.2 | 8436.5 | 7311.4 | 7244.3 | 6816.0 | 6729.9 |
| 60° | 3301.3 | 3309.9 | 3359.8 | 3857.0 | 5493.0 | 8274.8 | 9886.8 | 8531.1 | 8242.1 | 7308.0 | 7189.3 |
| 62.5° | 2305.2 | 2288.0 | 2307.0 | 2585.7 | 3927.5 | 7724.3 | 10867.3 | 10014.1 | 9735.4 | 7867.1 | 7798.3 |
| 65° | 1649.8 | 1627.4 | 1703.1 | 1873.4 | 2358.6 | 5905.9 | 11006.7 | 11989.0 | 11739.6 | 8759.9 | 8594.8 |
| 67.5° | 1187.0 | 1183.6 | 1271.3 | 1581.0 | 1675.6 | 3401.1 | 9974.5 | 13778.2 | 13626.8 | 9819.7 | 9079.9 |
| 69° | 982.3 | 984.0 | 1068.3 | 1415.8 | 1599.9 | 2322.5 | 8582.7 | 14086.1 | 14058.6 | 10366.7 | 8988.7 |
| 70° | 856.7 | 863.6 | 961.7 | 1317.8 | 1568.9 | 1909.6 | 7399.2 | 13783.3 | 13755.8 | 10473.4 | 8687.7 |
| 72.5° | 528.1 | 533.3 | 662.3 | 1056.3 | 1491.5 | 1558.6 | 4424.7 | 11276.8 | 11371.4 | 9984.8 | 7485.2 |
| 75° | 252.9 | 254.6 | 347.5 | 763.8 | 1438.2 | 1477.8 | 2370.6 | 8321.3 | 8520.8 | 8061.5 | 5849.1 |
| 77.5° | 134.2 | 134.2 | 166.9 | 406.0 | 1164.7 | 1390.0 | 1407.2 | 5869.8 | 6034.9 | 5097.3 | 3325.4 |
| 80° | 67.1 | 68.8 | 101.5 | 211.6 | 722.5 | 1362.5 | 1099.3 | 3500.9 | 3590.3 | 2079.9 | 1035.6 |
| 82.5° | 25.8 | 27.5 | 48.2 | 127.3 | 375.0 | 1150.9 | 965.1 | 1722.1 | 1699.7 | 486.9 | 252.9 |
| 85° | 3.4 | 3.4 | 17.2 | 75.7 | 160.0 | 507.5 | 796.5 | 719.1 | 695.0 | 106.7 | 122.1 |
| 87.5° | 0.0 | 0.0 | 3.4 | 22.4 | 48.2 | 147.9 | 307.9 | 197.8 | 220.2 | 29.2 | 60.2 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3215.3 | 3215.3 | 3215.3 | 3215.3 | 3215.3 | 3215.3 | 3215.3 | 3215.3 | 3215.3 | 3215.3 | 3215.3 |
| 2.5° | 3265.2 | 3229.1 | 3174.0 | 3120.7 | 3063.9 | 2995.1 | 2919.4 | 2891.9 | 2843.7 | 2840.3 | 2867.8 |
| 5° | 3261.8 | 3203.3 | 3106.9 | 2993.4 | 2831.7 | 2709.5 | 2577.1 | 2480.7 | 2406.7 | 2358.6 | 2370.6 |
| 7.5° | 3279.0 | 3208.4 | 3041.5 | 2797.3 | 2589.1 | 2346.5 | 2141.8 | 2000.7 | 1871.7 | 1808.1 | 1801.2 |
| 10° | 3251.4 | 3156.8 | 2912.5 | 2570.2 | 2264.0 | 1925.1 | 1625.7 | 1436.5 | 1243.8 | 1173.3 | 1176.7 |
| 12.5° | 3266.9 | 3134.4 | 2773.2 | 2336.2 | 1914.7 | 1474.3 | 1116.5 | 858.4 | 677.8 | 619.3 | 612.4 |
| 15° | 3277.2 | 3086.3 | 2639.0 | 2055.8 | 1527.7 | 1004.7 | 646.8 | 486.9 | 430.1 | 419.8 | 418.0 |
| 17.5° | 3237.7 | 3027.8 | 2449.8 | 1778.8 | 1132.0 | 610.7 | 430.1 | 397.4 | 387.1 | 380.2 | 376.8 |
| 20° | 3235.9 | 2993.4 | 2286.3 | 1495.0 | 755.2 | 416.3 | 371.6 | 359.5 | 344.1 | 338.9 | 338.9 |
| 22.5° | 3206.7 | 2921.1 | 2090.2 | 1183.6 | 481.7 | 357.8 | 333.7 | 314.8 | 297.6 | 290.7 | 289.0 |
| 25° | 3198.1 | 2836.8 | 1906.1 | 889.4 | 366.4 | 320.0 | 295.9 | 268.4 | 247.7 | 237.4 | 232.2 |
| 27.5° | 3174.0 | 2764.6 | 1720.3 | 626.2 | 320.0 | 285.6 | 254.6 | 225.4 | 201.3 | 185.8 | 184.1 |
| 30° | 3088.0 | 2688.9 | 1513.9 | 433.5 | 290.7 | 252.9 | 218.5 | 184.1 | 160.0 | 149.7 | 146.2 |
| 32.5° | 3051.9 | 2618.3 | 1288.5 | 333.7 | 264.9 | 223.6 | 184.1 | 153.1 | 134.2 | 123.9 | 122.1 |
| 35° | 3008.9 | 2515.1 | 1070.0 | 290.7 | 240.8 | 194.4 | 154.8 | 129.0 | 113.5 | 104.9 | 104.9 |
| 37.5° | 3014.0 | 2432.6 | 865.3 | 263.2 | 215.0 | 166.9 | 132.5 | 110.1 | 96.3 | 87.7 | 87.7 |
| 40° | 2998.5 | 2367.2 | 672.7 | 239.1 | 191.0 | 142.8 | 111.8 | 92.9 | 80.9 | 72.3 | 70.5 |
| 42.5° | 3069.1 | 2350.0 | 507.5 | 218.5 | 166.9 | 122.1 | 96.3 | 79.1 | 67.1 | 56.8 | 56.8 |
| 45° | 3187.8 | 2377.5 | 395.7 | 199.6 | 142.8 | 104.9 | 82.6 | 65.4 | 53.3 | 46.4 | 44.7 |
| 47.5° | 3504.3 | 2485.9 | 309.7 | 184.1 | 122.1 | 91.2 | 68.8 | 53.3 | 43.0 | 36.1 | 34.4 |
| 50° | 3963.6 | 2728.4 | 263.2 | 161.7 | 103.2 | 77.4 | 56.8 | 41.3 | 34.4 | 27.5 | 25.8 |
| 52.5° | 4617.4 | 3136.2 | 239.1 | 142.8 | 86.0 | 63.7 | 44.7 | 32.7 | 25.8 | 20.6 | 18.9 |
| 55° | 5329.6 | 3645.4 | 216.8 | 120.4 | 72.3 | 51.6 | 36.1 | 25.8 | 18.9 | 13.8 | 12.0 |
| 57.5° | 5885.3 | 4085.8 | 197.8 | 99.8 | 58.5 | 41.3 | 27.5 | 18.9 | 13.8 | 8.6 | 6.9 |
| 60° | 6492.5 | 4395.5 | 173.8 | 79.1 | 48.2 | 31.0 | 20.6 | 13.8 | 10.3 | 5.2 | 5.2 |
| 62.5° | 7118.7 | 4758.4 | 142.8 | 61.9 | 37.8 | 24.1 | 15.5 | 10.3 | 6.9 | 1.7 | 1.7 |
| 65° | 7989.2 | 5042.3 | 110.1 | 48.2 | 29.2 | 17.2 | 12.0 | 8.6 | 3.4 | 0.0 | 0.0 |
| 67.5° | 8235.2 | 4903.0 | 80.9 | 37.8 | 20.6 | 12.0 | 8.6 | 5.2 | 1.7 | 0.0 | 0.0 |
| 69° | 7989.2 | 4416.1 | 70.5 | 32.7 | 17.2 | 10.3 | 6.9 | 3.4 | 1.7 | 0.0 | 0.0 |
| 70° | 7540.2 | 4037.6 | 61.9 | 27.5 | 15.5 | 10.3 | 5.2 | 3.4 | 1.7 | 0.0 | 0.0 |
| 72.5° | 6306.7 | 3096.6 | 48.2 | 20.6 | 12.0 | 8.6 | 5.2 | 3.4 | 0.0 | 0.0 | 0.0 |
| 75° | 4626.0 | 1913.0 | 36.1 | 15.5 | 10.3 | 6.9 | 5.2 | 3.4 | 0.0 | 0.0 | 0.0 |
| 77.5° | 2479.0 | 698.5 | 25.8 | 10.3 | 6.9 | 5.2 | 5.2 | 3.4 | 0.0 | 0.0 | 0.0 |
| 80° | 679.5 | 206.4 | 18.9 | 6.9 | 5.2 | 3.4 | 3.4 | 1.7 | 0.0 | 0.0 | 0.0 |
| 82.5° | 185.8 | 53.3 | 12.0 | 6.9 | 5.2 | 3.4 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 99.8 | 20.6 | 6.9 | 5.2 | 3.4 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 51.6 | 6.9 | 5.2 | 3.4 | 3.4 | 1.7 | 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)