

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: P509206

Luminaire Tested: **VERD-CA2-130-727-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-130-727-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1180mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14473 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

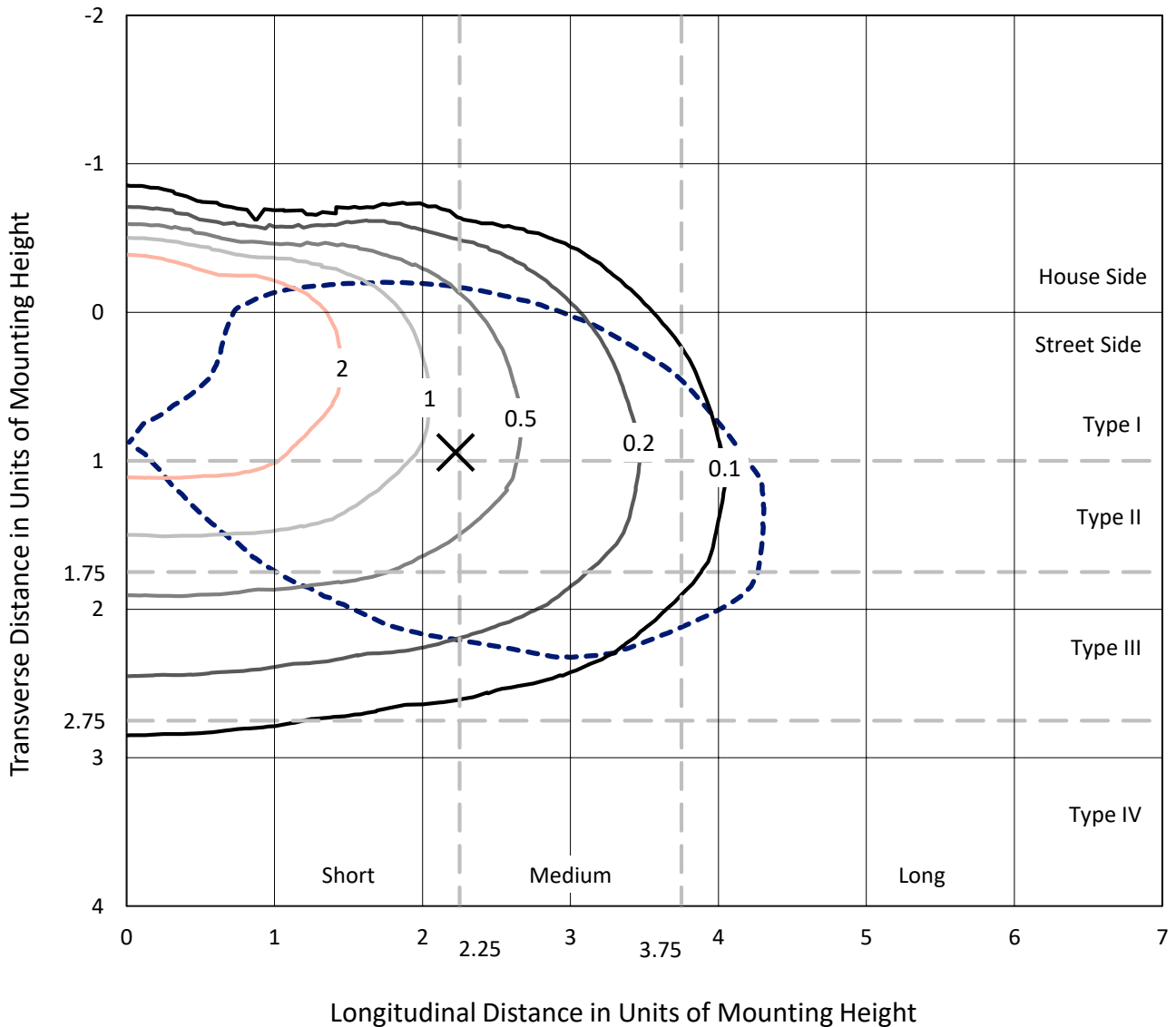
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

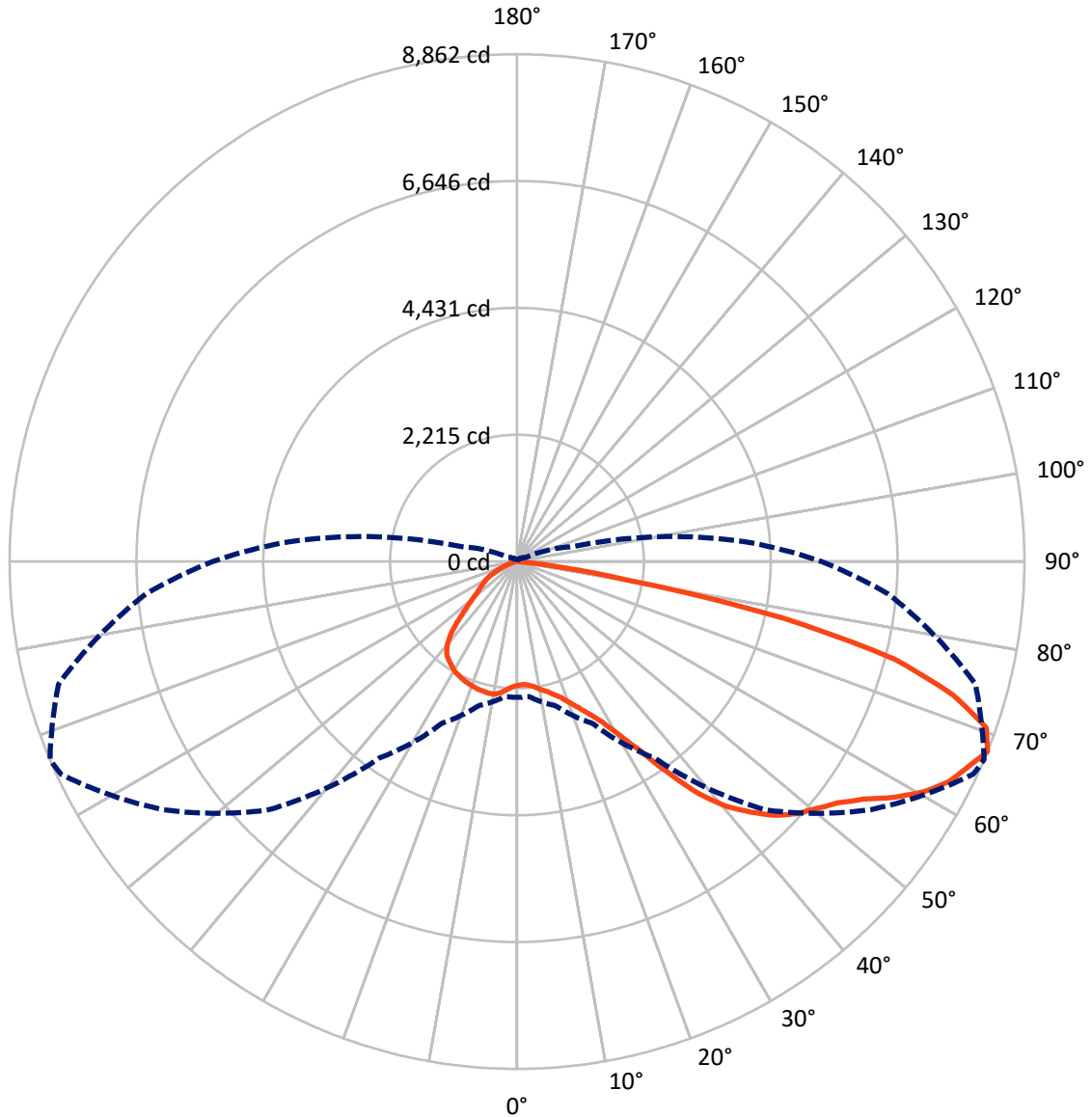
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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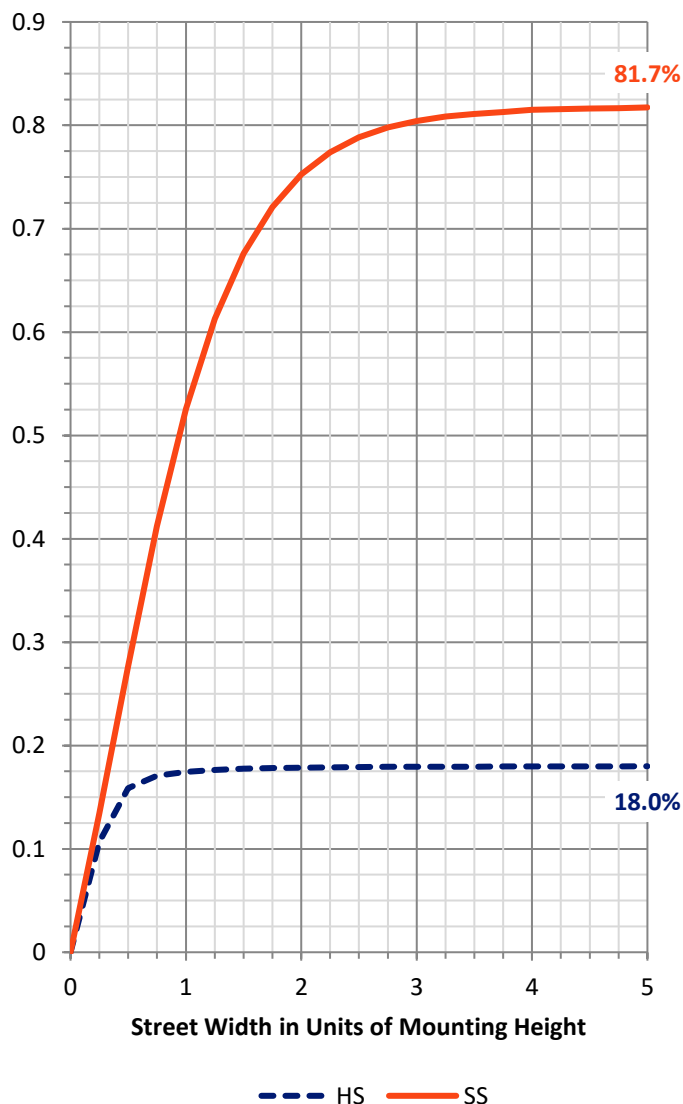
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2637.1 | 0.0 | 2637.1 |
| | % Fixture | 18.2 | 0.0 | 18.2 |
| Street Side | Lumens | 11835.9 | 0.0 | 11835.9 |
| | % Fixture | 81.8 | 0.0 | 81.8 |
| Total | Lumens | 14473.0 | 0.0 | 14473.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 216.5 | 1.5 |
| 10°-20° | 678.1 | 4.7 |
| 20°-30° | 1157.0 | 8.0 |
| 30°-40° | 1800.9 | 12.4 |
| 40°-50° | 2542.3 | 17.6 |
| 50°-60° | 3062.0 | 21.2 |
| 60°-70° | 3164.4 | 21.9 |
| 70°-80° | 1743.2 | 12.0 |
| 80°-90° | 108.7 | 0.8 |
| 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° | 14473.0 | 100.0 |
| 0°-180° | 14473.0 | 100.0 |

Coefficient of Utilization



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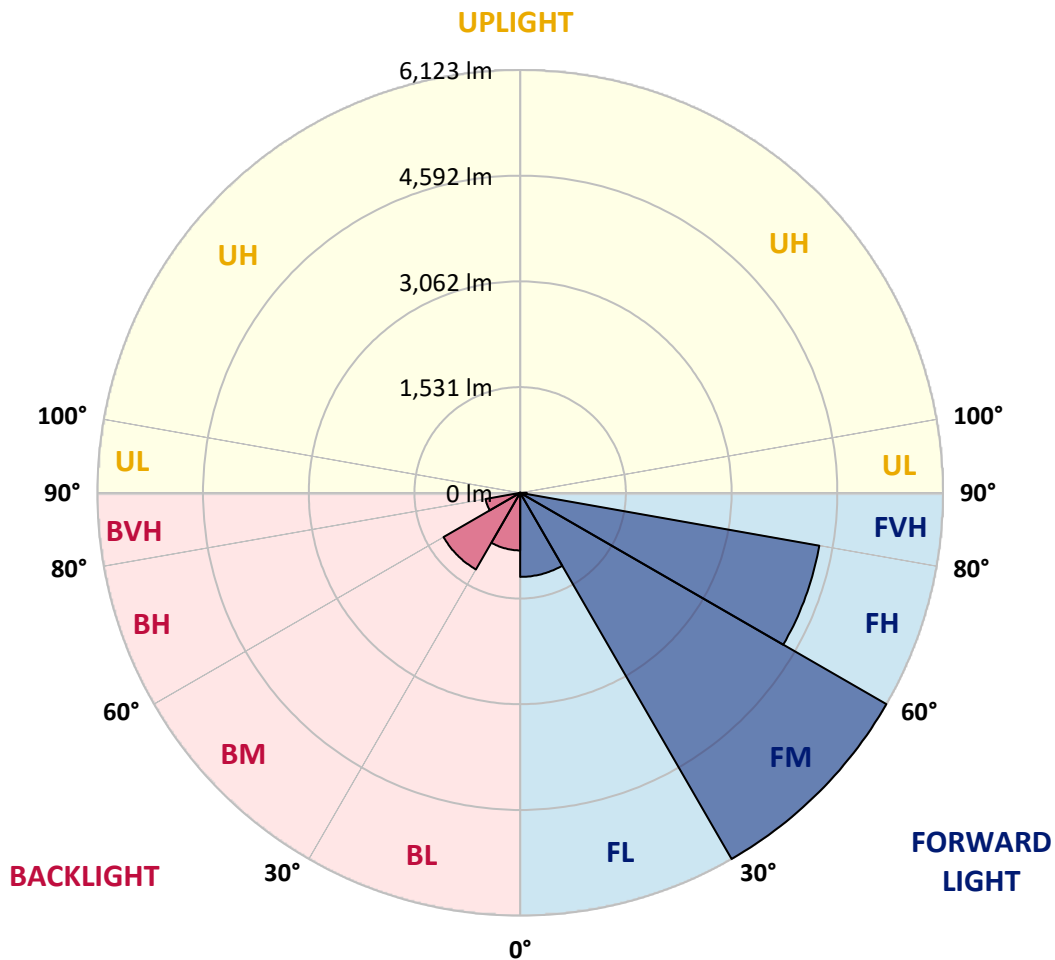
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1217.8 | 8.4 | | | |
| FM (30°-60°) | 6123.3 | 42.3 | | | |
| FH (60°-80°) | 4399.2 | 30.4 | | | G2/5000 |
| FVH (80°-90°) | 95.6 | 0.7 | | | G1/100 |
| BL (0°-30°) | 833.8 | 5.8 | B2/1000 | | |
| BM (30°-60°) | 1281.9 | 8.9 | B2/2500 | | |
| BH (60°-80°) | 508.3 | 3.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 13.1 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2161.0 | 2161.0 | 2161.0 | 2161.0 | 2161.0 | 2161.0 | 2161.0 | 2161.0 | 2161.0 | 2161.0 | 2161.0 |
| 2.5° | 2140.9 | 2162.7 | 2162.7 | 2156.0 | 2159.3 | 2144.2 | 2134.2 | 2145.9 | 2149.3 | 2159.3 | 2172.7 |
| 5° | 2182.8 | 2207.9 | 2206.2 | 2194.5 | 2184.4 | 2171.0 | 2157.6 | 2167.7 | 2169.4 | 2172.7 | 2189.5 |
| 7.5° | 2271.5 | 2295.0 | 2284.9 | 2273.2 | 2268.2 | 2238.0 | 2209.6 | 2207.9 | 2211.2 | 2221.3 | 2239.7 |
| 10° | 2387.1 | 2405.6 | 2402.2 | 2383.8 | 2370.4 | 2325.2 | 2284.9 | 2269.9 | 2271.5 | 2274.9 | 2306.7 |
| 12.5° | 2517.8 | 2542.9 | 2524.5 | 2499.4 | 2475.9 | 2410.6 | 2355.3 | 2333.5 | 2330.2 | 2338.6 | 2365.4 |
| 15° | 2646.8 | 2673.6 | 2660.2 | 2645.1 | 2591.5 | 2519.5 | 2449.1 | 2413.9 | 2410.6 | 2410.6 | 2427.3 |
| 17.5° | 2816.0 | 2826.0 | 2817.7 | 2795.9 | 2735.6 | 2645.1 | 2561.4 | 2509.4 | 2501.0 | 2506.1 | 2509.4 |
| 20° | 3003.6 | 3022.0 | 3012.0 | 2988.5 | 2901.4 | 2804.3 | 2698.7 | 2636.7 | 2631.7 | 2636.7 | 2604.9 |
| 22.5° | 3231.4 | 3238.1 | 3233.1 | 3194.6 | 3115.8 | 2986.8 | 2847.8 | 2777.4 | 2777.4 | 2782.5 | 2717.1 |
| 25° | 3425.7 | 3465.9 | 3454.2 | 3407.3 | 3315.2 | 3202.9 | 3035.4 | 2948.3 | 2953.3 | 2956.7 | 2866.2 |
| 27.5° | 3651.9 | 3685.4 | 3677.0 | 3641.8 | 3581.5 | 3439.1 | 3238.1 | 3181.2 | 3176.1 | 3171.1 | 3030.4 |
| 30° | 3868.0 | 3893.1 | 3909.9 | 3901.5 | 3852.9 | 3718.9 | 3539.7 | 3497.8 | 3511.2 | 3501.1 | 3258.2 |
| 32.5° | 4043.9 | 4087.4 | 4134.3 | 4144.4 | 4131.0 | 4012.1 | 3881.4 | 3903.2 | 3919.9 | 4038.9 | 3893.1 |
| 35° | 4194.7 | 4241.6 | 4318.6 | 4399.0 | 4414.1 | 4367.2 | 4301.9 | 4461.0 | 4509.6 | 4752.5 | 4598.4 |
| 37.5° | 4352.1 | 4392.3 | 4469.4 | 4596.7 | 4680.5 | 4705.6 | 4769.2 | 5020.5 | 5137.8 | 5347.2 | 5060.7 |
| 40° | 4424.2 | 4464.4 | 4598.4 | 4759.2 | 4933.4 | 5074.1 | 5201.4 | 5492.9 | 5623.6 | 5687.2 | 5315.3 |
| 42.5° | 4352.1 | 4390.6 | 4606.7 | 4910.0 | 5146.2 | 5457.7 | 5601.8 | 5893.3 | 5980.4 | 5973.7 | 5628.6 |
| 45° | 4281.8 | 4318.6 | 4544.8 | 4948.5 | 5338.8 | 5811.2 | 5933.5 | 6260.2 | 6323.8 | 6243.4 | 5809.5 |
| 47.5° | 4191.3 | 4241.6 | 4476.1 | 4925.0 | 5511.3 | 6131.2 | 6243.4 | 6521.5 | 6578.4 | 6459.5 | 6017.2 |
| 50° | 4080.7 | 4124.3 | 4397.3 | 4888.2 | 5625.3 | 6370.7 | 6489.7 | 6766.1 | 6781.1 | 6670.6 | 6204.9 |
| 52.5° | 3953.4 | 3976.9 | 4273.4 | 4814.5 | 5724.1 | 6546.6 | 6682.3 | 6972.1 | 7007.3 | 6977.1 | 6427.7 |
| 55° | 3764.1 | 3806.0 | 4124.3 | 4698.9 | 5730.8 | 6638.7 | 6831.4 | 7263.6 | 7327.2 | 7256.9 | 6563.4 |
| 57.5° | 3564.8 | 3610.0 | 3940.0 | 4538.1 | 5632.0 | 6697.4 | 7102.8 | 7642.2 | 7767.8 | 7541.7 | 6673.9 |
| 60° | 3345.3 | 3385.5 | 3710.5 | 4300.2 | 5456.1 | 6781.1 | 7382.5 | 8086.1 | 8164.8 | 7784.6 | 6747.6 |
| 62.5° | 3090.7 | 3122.5 | 3432.4 | 4012.1 | 5186.4 | 6759.4 | 7623.7 | 8442.9 | 8468.0 | 8002.3 | 6740.9 |
| 65° | 2780.8 | 2779.1 | 3067.3 | 3610.0 | 4744.1 | 6585.1 | 7667.3 | 8622.2 | 8652.3 | 8143.1 | 6680.6 |
| 67.5° | 2372.1 | 2367.0 | 2608.3 | 3119.2 | 4186.3 | 6131.2 | 7551.7 | 8789.7 | 8861.7 | 8290.5 | 6504.7 |
| 70° | 1859.5 | 1866.2 | 2048.7 | 2504.4 | 3397.3 | 5439.3 | 7246.8 | 8677.4 | 8692.5 | 8007.4 | 6049.1 |
| 72.5° | 1315.0 | 1311.7 | 1435.6 | 1743.9 | 2511.1 | 4246.6 | 6369.0 | 7911.9 | 7958.8 | 7307.1 | 5270.1 |
| 75° | 603.1 | 628.2 | 938.1 | 1065.4 | 1516.0 | 2891.4 | 5240.0 | 6722.5 | 6813.0 | 6290.3 | 4109.2 |
| 77.5° | 112.2 | 115.6 | 201.0 | 405.4 | 593.0 | 1043.6 | 3130.9 | 4553.1 | 4742.4 | 4286.8 | 2315.1 |
| 80° | 88.8 | 90.5 | 118.9 | 194.3 | 247.9 | 469.1 | 1030.2 | 1876.2 | 1918.1 | 1671.8 | 834.2 |
| 82.5° | 65.3 | 67.0 | 88.8 | 125.6 | 115.6 | 202.7 | 428.8 | 546.1 | 579.6 | 539.4 | 331.7 |
| 85° | 38.5 | 40.2 | 51.9 | 62.0 | 60.3 | 80.4 | 72.0 | 65.3 | 58.6 | 48.6 | 41.9 |
| 87.5° | 10.1 | 13.4 | 21.8 | 21.8 | 16.8 | 15.1 | 13.4 | 11.7 | 13.4 | 11.7 | 11.7 |
| 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° | 2161.0 | 2161.0 | 2161.0 | 2161.0 | 2161.0 | 2161.0 | 2161.0 | 2161.0 | 2161.0 | 2161.0 | 2161.0 |
| 2.5° | 2176.1 | 2174.4 | 2179.4 | 2192.8 | 2204.5 | 2206.2 | 2223.0 | 2244.7 | 2234.7 | 2263.2 | 2253.1 |
| 5° | 2199.5 | 2204.5 | 2223.0 | 2244.7 | 2264.8 | 2281.6 | 2306.7 | 2343.6 | 2331.9 | 2358.7 | 2348.6 |
| 7.5° | 2253.1 | 2261.5 | 2290.0 | 2311.7 | 2335.2 | 2330.2 | 2352.0 | 2373.7 | 2346.9 | 2375.4 | 2362.0 |
| 10° | 2316.8 | 2326.8 | 2343.6 | 2352.0 | 2345.3 | 2341.9 | 2336.9 | 2333.5 | 2298.3 | 2318.5 | 2310.1 |
| 12.5° | 2373.7 | 2375.4 | 2370.4 | 2348.6 | 2333.5 | 2293.3 | 2274.9 | 2266.5 | 2212.9 | 2228.0 | 2217.9 |
| 15° | 2429.0 | 2405.6 | 2380.4 | 2330.2 | 2288.3 | 2226.3 | 2186.1 | 2150.9 | 2100.7 | 2120.8 | 2100.7 |
| 17.5° | 2489.3 | 2454.1 | 2388.8 | 2315.1 | 2229.7 | 2139.2 | 2073.9 | 2016.9 | 1941.5 | 1938.2 | 1931.5 |
| 20° | 2566.4 | 2514.4 | 2408.9 | 2288.3 | 2166.0 | 2030.3 | 1926.5 | 1831.0 | 1717.1 | 1702.0 | 1671.8 |
| 22.5° | 2663.5 | 2586.5 | 2439.1 | 2253.1 | 2087.3 | 1916.4 | 1740.5 | 1583.0 | 1439.0 | 1393.8 | 1377.0 |
| 25° | 2775.8 | 2680.3 | 2455.8 | 2221.3 | 2011.9 | 1750.6 | 1511.0 | 1306.6 | 1137.4 | 1088.9 | 1075.5 |
| 27.5° | 2916.5 | 2799.2 | 2480.9 | 2174.4 | 1891.3 | 1547.9 | 1236.3 | 1010.1 | 859.4 | 780.6 | 768.9 |
| 30° | 3110.8 | 2931.6 | 2516.1 | 2127.5 | 1745.5 | 1310.0 | 958.2 | 695.2 | 552.8 | 505.9 | 497.5 |
| 32.5° | 3640.2 | 3246.5 | 2554.7 | 2043.7 | 1552.9 | 1045.3 | 636.6 | 443.9 | 348.4 | 309.9 | 306.6 |
| 35° | 4311.9 | 3822.8 | 2695.4 | 1948.2 | 1320.0 | 725.4 | 395.3 | 264.7 | 212.7 | 197.7 | 197.7 |
| 37.5° | 4745.8 | 4270.0 | 2929.9 | 1814.2 | 1013.5 | 443.9 | 237.9 | 172.5 | 162.5 | 160.8 | 160.8 |
| 40° | 4973.6 | 4467.7 | 3099.1 | 1630.0 | 678.4 | 258.0 | 167.5 | 149.1 | 145.7 | 142.4 | 142.4 |
| 42.5° | 5263.4 | 4636.9 | 3244.8 | 1380.3 | 393.7 | 180.9 | 147.4 | 135.7 | 130.7 | 127.3 | 127.3 |
| 45° | 5424.2 | 4821.2 | 3152.7 | 1083.8 | 224.5 | 162.5 | 135.7 | 122.3 | 117.3 | 117.3 | 117.3 |
| 47.5° | 5581.7 | 4997.1 | 3035.4 | 779.0 | 191.0 | 149.1 | 127.3 | 113.9 | 108.9 | 112.2 | 112.2 |
| 50° | 5760.9 | 5116.0 | 2849.5 | 583.0 | 180.9 | 139.0 | 115.6 | 103.9 | 100.5 | 105.5 | 105.5 |
| 52.5° | 5928.5 | 5127.7 | 2551.3 | 465.7 | 167.5 | 129.0 | 107.2 | 95.5 | 92.1 | 95.5 | 95.5 |
| 55° | 5977.0 | 5090.9 | 2465.9 | 370.2 | 159.1 | 118.9 | 100.5 | 88.8 | 80.4 | 80.4 | 78.7 |
| 57.5° | 5965.3 | 5018.8 | 2258.1 | 313.3 | 149.1 | 108.9 | 92.1 | 78.7 | 68.7 | 65.3 | 65.3 |
| 60° | 5925.1 | 4918.3 | 2038.7 | 273.1 | 139.0 | 100.5 | 82.1 | 67.0 | 57.0 | 53.6 | 53.6 |
| 62.5° | 5874.9 | 4729.0 | 1728.8 | 237.9 | 129.0 | 97.2 | 68.7 | 55.3 | 48.6 | 45.2 | 45.2 |
| 65° | 5663.8 | 4434.2 | 1383.7 | 202.7 | 118.9 | 85.4 | 60.3 | 48.6 | 41.9 | 38.5 | 38.5 |
| 67.5° | 5313.7 | 3985.3 | 1000.1 | 172.5 | 110.6 | 72.0 | 53.6 | 41.9 | 35.2 | 33.5 | 31.8 |
| 70° | 4791.0 | 3365.4 | 619.8 | 149.1 | 95.5 | 65.3 | 46.9 | 36.9 | 31.8 | 26.8 | 26.8 |
| 72.5° | 3993.6 | 2635.1 | 325.0 | 117.3 | 75.4 | 55.3 | 41.9 | 33.5 | 26.8 | 23.5 | 21.8 |
| 75° | 2807.6 | 1624.9 | 234.5 | 90.5 | 51.9 | 45.2 | 35.2 | 28.5 | 23.5 | 20.1 | 18.4 |
| 77.5° | 1355.2 | 559.5 | 164.2 | 67.0 | 36.9 | 33.5 | 26.8 | 23.5 | 18.4 | 16.8 | 16.8 |
| 80° | 495.9 | 318.3 | 117.3 | 48.6 | 30.2 | 26.8 | 20.1 | 18.4 | 15.1 | 13.4 | 13.4 |
| 82.5° | 222.8 | 150.8 | 67.0 | 31.8 | 21.8 | 20.1 | 15.1 | 11.7 | 11.7 | 11.7 | 11.7 |
| 85° | 36.9 | 31.8 | 21.8 | 15.1 | 11.7 | 10.1 | 10.1 | 8.4 | 8.4 | 8.4 | 8.4 |
| 87.5° | 10.1 | 10.1 | 8.4 | 8.4 | 6.7 | 5.0 | 3.4 | 3.4 | 3.4 | 5.0 | 5.0 |
| 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)