

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: P527751

Luminaire Tested: **GLAN-SA2D-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2D-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8814 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

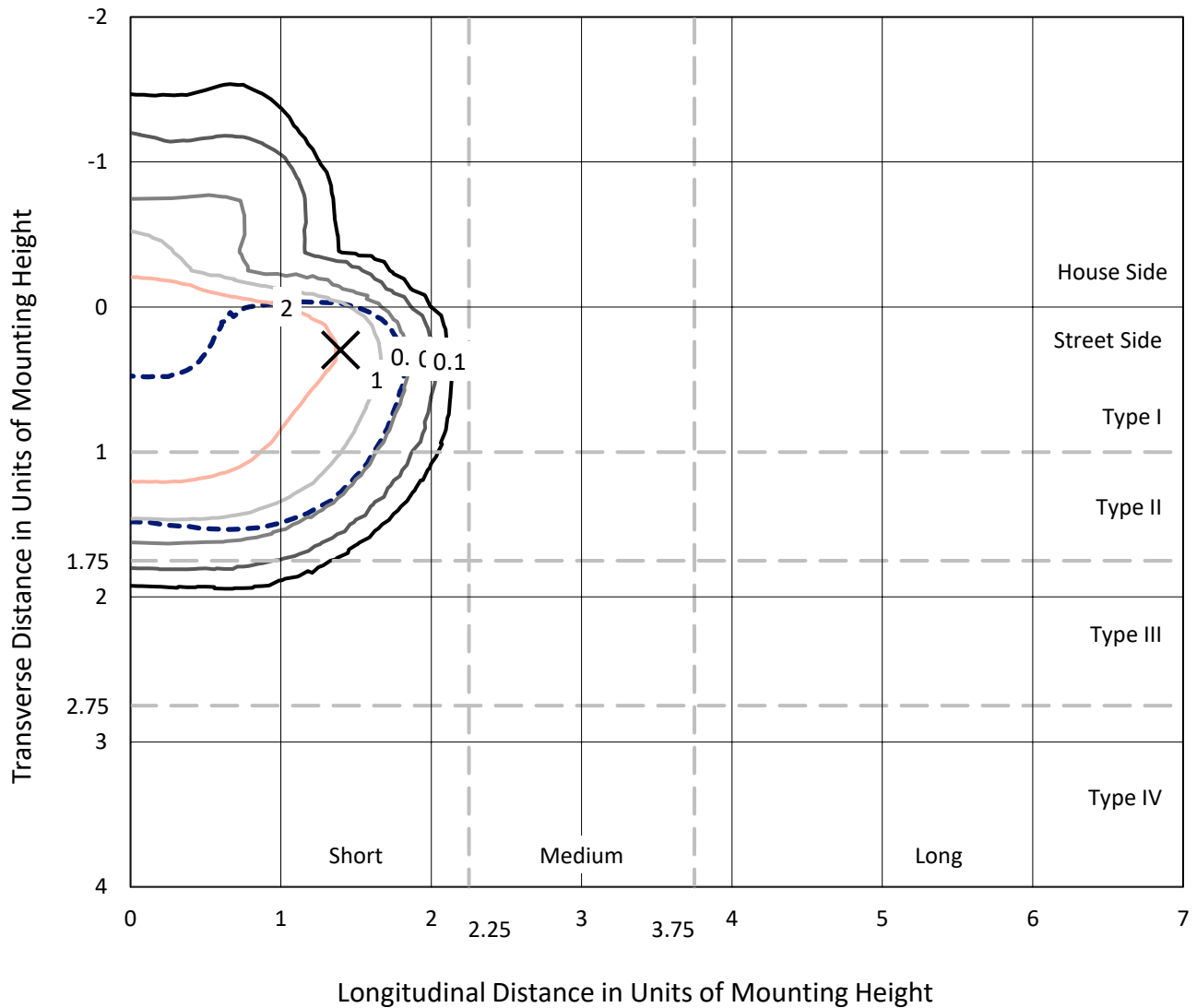
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

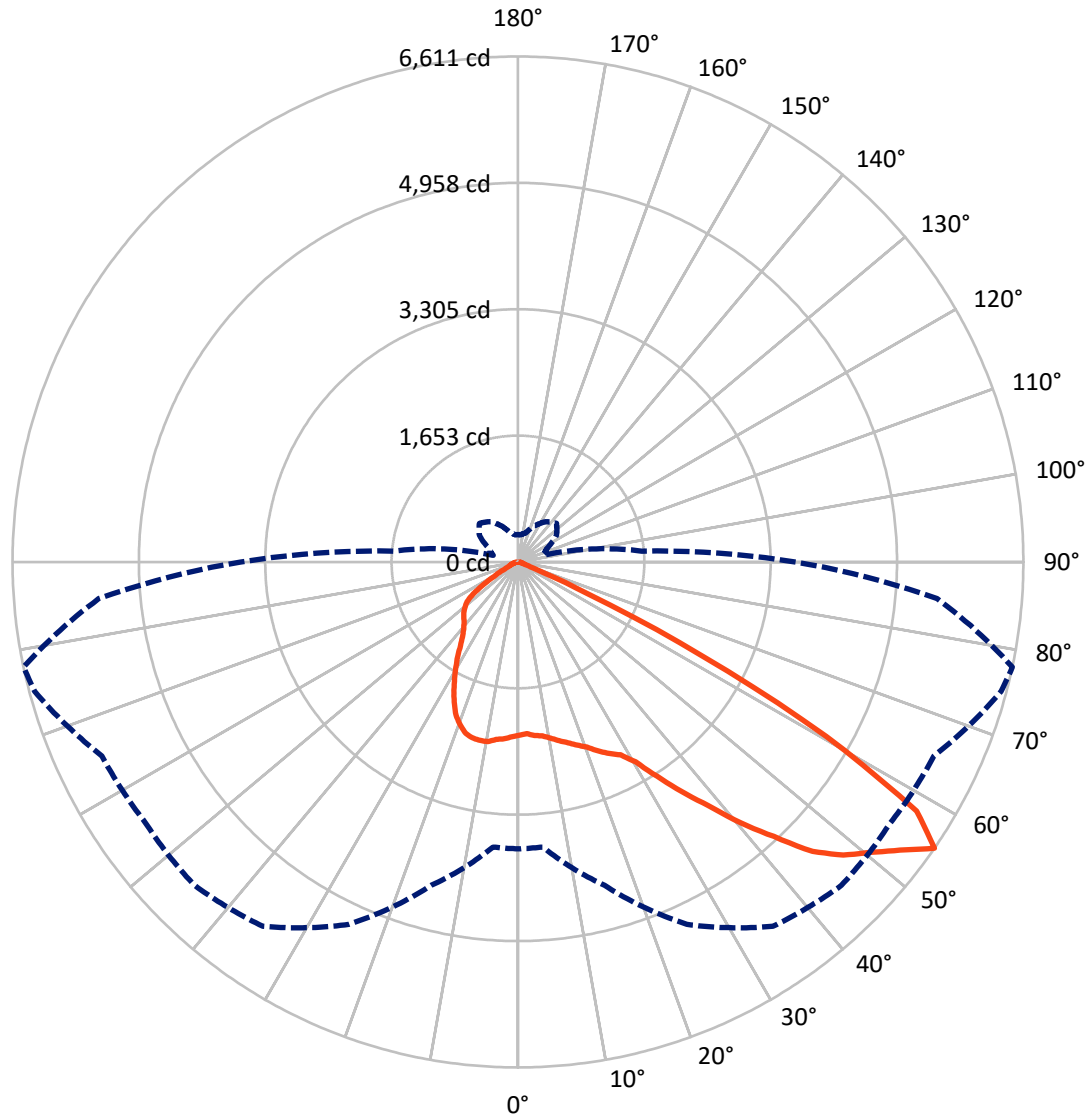
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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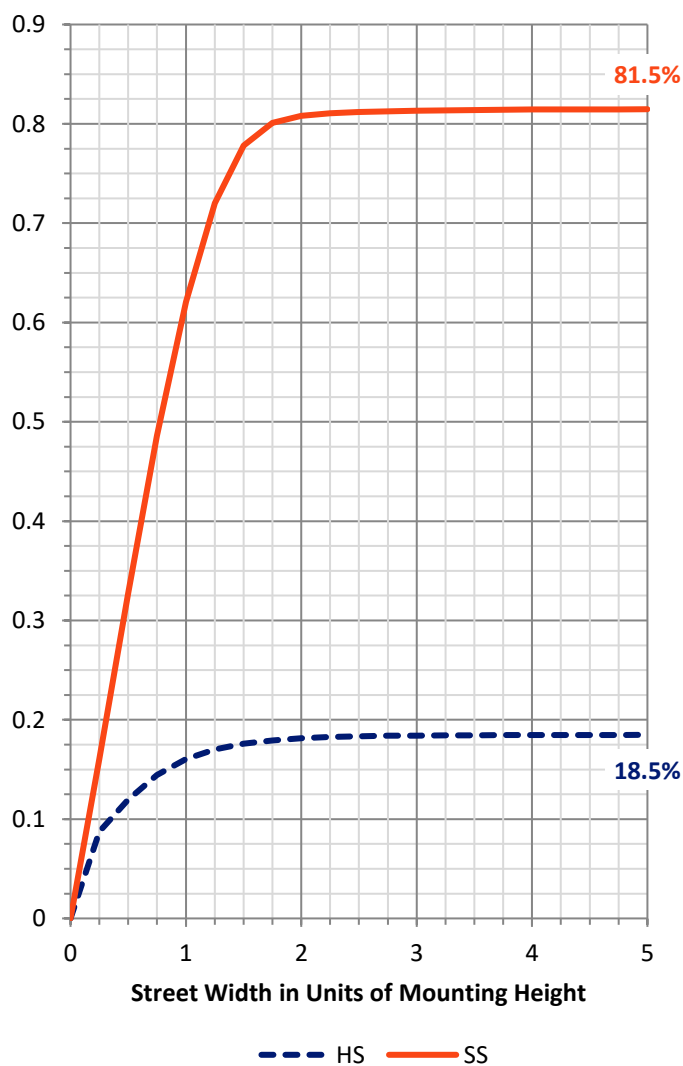
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1637.1 | 0.0 | 1637.1 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 7176.9 | 0.0 | 7176.9 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 8814.0 | 0.0 | 8814.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 202.1 | 2.3 |
| 10°-20° | 534.8 | 6.1 |
| 20°-30° | 937.3 | 10.6 |
| 30°-40° | 1545.6 | 17.5 |
| 40°-50° | 2249.0 | 25.5 |
| 50°-60° | 2548.3 | 28.9 |
| 60°-70° | 728.6 | 8.3 |
| 70°-80° | 56.6 | 0.6 |
| 80°-90° | 11.8 | 0.1 |
| 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° | 8814.0 | 100.0 |
| 0°-180° | 8814.0 | 100.0 |

Coefficient of Utilization



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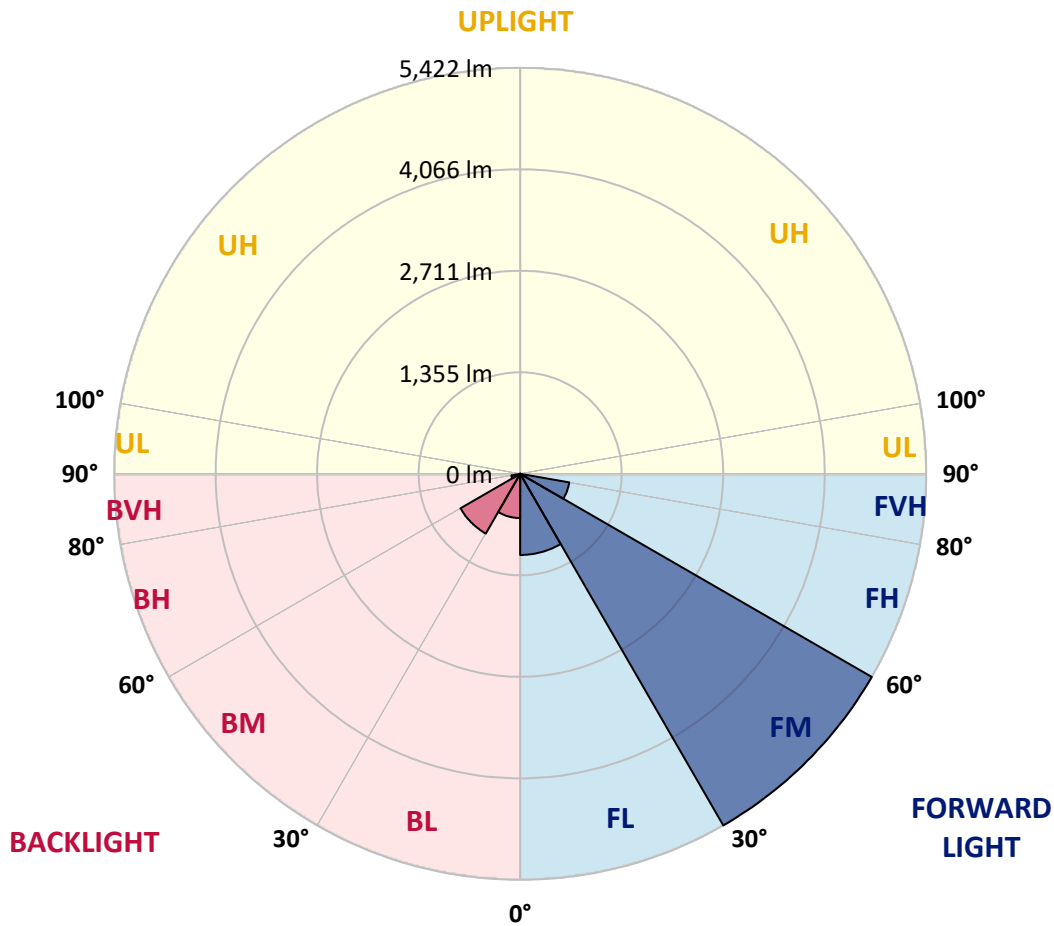
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1083.5 | 12.3 | | | |
| FM (30°-60°) | 5422.0 | 61.5 | | | |
| FH (60°-80°) | 665.7 | 7.6 | | | G1/1800 |
| FVH (80°-90°) | 5.7 | 0.1 | | | G0/10 |
| BL (0°-30°) | 590.7 | 6.7 | B2/1000 | | |
| BM (30°-60°) | 920.9 | 10.4 | B1/1000 | | |
| BH (60°-80°) | 119.5 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.0 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2266.1 | 2266.1 | 2266.1 | 2266.1 | 2266.1 | 2266.1 | 2266.1 | 2266.1 | 2266.1 | 2266.1 | 2266.1 |
| 2.5° | 2130.6 | 2151.0 | 2154.2 | 2179.4 | 2177.8 | 2220.4 | 2233.0 | 2234.6 | 2262.9 | 2248.8 | 2285.0 |
| 5° | 2070.7 | 2059.6 | 2054.9 | 2099.0 | 2111.7 | 2149.5 | 2181.0 | 2199.9 | 2258.2 | 2278.7 | 2316.5 |
| 7.5° | 2017.1 | 2017.1 | 2020.3 | 2059.6 | 2054.9 | 2103.8 | 2136.9 | 2195.2 | 2280.3 | 2297.6 | 2343.3 |
| 10° | 1965.1 | 1946.2 | 1969.8 | 2010.8 | 2045.5 | 2067.5 | 2136.9 | 2192.0 | 2291.3 | 2341.7 | 2404.8 |
| 12.5° | 1938.3 | 1947.8 | 1950.9 | 1980.9 | 2018.7 | 2084.9 | 2122.7 | 2214.1 | 2370.1 | 2400.0 | 2467.8 |
| 15° | 2106.9 | 2088.0 | 2042.3 | 2015.5 | 2047.0 | 2078.6 | 2173.1 | 2266.1 | 2411.1 | 2453.6 | 2529.3 |
| 17.5° | 2302.3 | 2286.6 | 2248.8 | 2176.3 | 2105.3 | 2163.7 | 2237.7 | 2322.8 | 2455.2 | 2518.2 | 2630.1 |
| 20° | 2557.6 | 2532.4 | 2494.6 | 2352.8 | 2291.3 | 2228.3 | 2307.1 | 2407.9 | 2527.7 | 2584.4 | 2699.4 |
| 22.5° | 2861.8 | 2861.8 | 2776.7 | 2604.9 | 2477.2 | 2417.4 | 2450.5 | 2508.8 | 2608.0 | 2685.3 | 2798.7 |
| 25° | 3178.5 | 3169.1 | 3091.8 | 2913.8 | 2697.9 | 2627.0 | 2664.8 | 2705.7 | 2732.5 | 2775.1 | 2850.7 |
| 27.5° | 3541.0 | 3485.8 | 3388.1 | 3191.1 | 3000.4 | 2863.3 | 2904.3 | 2868.1 | 2835.0 | 2857.0 | 2965.8 |
| 30° | 3786.8 | 3821.5 | 3697.0 | 3507.9 | 3328.2 | 3175.4 | 3183.2 | 3151.7 | 3000.4 | 3032.0 | 3096.6 |
| 32.5° | 4042.1 | 4064.1 | 3994.8 | 3890.8 | 3711.1 | 3533.1 | 3468.5 | 3441.7 | 3328.2 | 3342.4 | 3279.4 |
| 35° | 4254.8 | 4297.4 | 4235.9 | 4190.2 | 4138.2 | 3994.8 | 3816.7 | 3903.4 | 3720.6 | 3685.9 | 3522.0 |
| 37.5° | 4450.2 | 4437.6 | 4510.1 | 4462.8 | 4451.8 | 4350.9 | 4155.5 | 4172.9 | 4050.0 | 4042.1 | 3853.0 |
| 40° | 4625.1 | 4628.3 | 4727.6 | 4749.6 | 4705.5 | 4525.9 | 4242.2 | 4379.3 | 4478.6 | 4488.0 | 4245.4 |
| 42.5° | 4770.1 | 4812.7 | 4897.8 | 5075.8 | 5009.7 | 4710.2 | 4332.0 | 4481.7 | 4850.5 | 4908.8 | 4617.3 |
| 45° | 4896.2 | 4982.9 | 5088.4 | 5247.6 | 5209.8 | 4971.8 | 4555.8 | 4692.9 | 5247.6 | 5400.5 | 4967.1 |
| 47.5° | 4904.1 | 5017.5 | 5132.6 | 5369.0 | 5416.2 | 5112.1 | 4787.5 | 5027.0 | 5562.8 | 5728.2 | 5222.4 |
| 50° | 4872.6 | 4932.4 | 5162.5 | 5419.4 | 5526.5 | 5340.6 | 5112.1 | 5307.5 | 5868.5 | 5972.5 | 5351.6 |
| 52.5° | 4499.1 | 4544.8 | 5006.5 | 5466.7 | 5725.1 | 5599.0 | 5542.3 | 5698.3 | 6180.5 | 6257.7 | 5473.0 |
| 55° | 3750.5 | 3742.7 | 4377.7 | 5228.7 | 5816.5 | 5982.0 | 5947.3 | 6002.4 | 6541.4 | 6610.7 | 5502.9 |
| 57.5° | 2565.5 | 2708.9 | 3257.3 | 4354.1 | 5257.1 | 5892.1 | 5928.4 | 5837.0 | 6120.6 | 6147.4 | 4796.9 |
| 60° | 1383.6 | 1443.5 | 1884.7 | 2905.9 | 4002.7 | 4801.6 | 4896.2 | 4730.7 | 4708.7 | 4633.0 | 3424.3 |
| 62.5° | 550.0 | 579.9 | 830.5 | 1438.8 | 2181.0 | 2918.5 | 3121.8 | 3054.0 | 2909.0 | 2710.5 | 1772.8 |
| 65° | 261.6 | 280.5 | 412.9 | 672.9 | 967.6 | 1216.6 | 1419.8 | 1482.9 | 1093.6 | 984.9 | 584.6 |
| 67.5° | 178.1 | 192.3 | 301.0 | 384.5 | 345.1 | 360.9 | 469.6 | 436.5 | 256.9 | 219.0 | 162.3 |
| 70° | 135.5 | 145.0 | 241.1 | 261.6 | 154.4 | 108.7 | 121.3 | 113.5 | 105.6 | 107.2 | 105.6 |
| 72.5° | 96.1 | 104.0 | 176.5 | 154.4 | 67.8 | 50.4 | 64.6 | 77.2 | 77.2 | 77.2 | 75.6 |
| 75° | 58.3 | 66.2 | 102.4 | 59.9 | 26.8 | 26.8 | 41.0 | 52.0 | 55.2 | 56.7 | 53.6 |
| 77.5° | 29.9 | 37.8 | 34.7 | 17.3 | 17.3 | 20.5 | 29.9 | 36.2 | 39.4 | 39.4 | 37.8 |
| 80° | 6.3 | 6.3 | 6.3 | 9.5 | 17.3 | 22.1 | 29.9 | 33.1 | 37.8 | 37.8 | 34.7 |
| 82.5° | 0.0 | 1.6 | 4.7 | 9.5 | 15.8 | 20.5 | 28.4 | 33.1 | 37.8 | 39.4 | 36.2 |
| 85° | 0.0 | 1.6 | 3.2 | 6.3 | 11.0 | 12.6 | 11.0 | 9.5 | 9.5 | 9.5 | 9.5 |
| 87.5° | 0.0 | 0.0 | 1.6 | 1.6 | 1.6 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 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° | 2266.1 | 2266.1 | 2266.1 | 2266.1 | 2266.1 | 2266.1 | 2266.1 | 2266.1 | 2266.1 | 2266.1 | 2266.1 |
| 2.5° | 2288.1 | 2292.9 | 2285.0 | 2283.4 | 2277.1 | 2296.0 | 2250.3 | 2239.3 | 2267.7 | 2240.9 | 2247.2 |
| 5° | 2318.1 | 2329.1 | 2314.9 | 2291.3 | 2256.6 | 2203.1 | 2157.4 | 2097.5 | 2069.1 | 2048.6 | 2045.5 |
| 7.5° | 2340.1 | 2348.0 | 2333.8 | 2258.2 | 2154.2 | 2018.7 | 1917.8 | 1843.8 | 1785.4 | 1768.1 | 1739.7 |
| 10° | 2430.0 | 2431.5 | 2360.6 | 2193.6 | 1990.3 | 1812.2 | 1657.8 | 1544.3 | 1486.0 | 1449.8 | 1434.0 |
| 12.5° | 2489.9 | 2486.7 | 2343.3 | 2066.0 | 1794.9 | 1558.5 | 1382.0 | 1244.9 | 1191.3 | 1174.0 | 1163.0 |
| 15° | 2565.5 | 2548.2 | 2302.3 | 1935.2 | 1542.8 | 1287.5 | 1128.3 | 1033.8 | 1029.0 | 1018.0 | 1029.0 |
| 17.5° | 2625.4 | 2576.5 | 2242.4 | 1697.2 | 1301.7 | 1060.6 | 956.5 | 962.8 | 975.5 | 986.5 | 988.1 |
| 20° | 2723.1 | 2622.2 | 2105.3 | 1489.2 | 1077.9 | 909.3 | 907.7 | 936.1 | 967.6 | 980.2 | 992.8 |
| 22.5° | 2797.1 | 2641.1 | 1958.8 | 1267.0 | 895.1 | 847.8 | 874.6 | 917.1 | 940.8 | 953.4 | 972.3 |
| 25° | 2823.9 | 2589.1 | 1763.4 | 1044.8 | 806.8 | 819.4 | 860.4 | 888.8 | 918.7 | 932.9 | 925.0 |
| 27.5° | 2850.7 | 2562.3 | 1530.2 | 860.4 | 759.6 | 800.5 | 835.2 | 863.6 | 873.0 | 891.9 | 904.5 |
| 30° | 2915.3 | 2469.4 | 1320.6 | 743.8 | 735.9 | 787.9 | 813.1 | 822.6 | 847.8 | 858.8 | 858.8 |
| 32.5° | 2967.3 | 2433.1 | 1098.4 | 688.7 | 732.8 | 794.2 | 797.4 | 797.4 | 800.5 | 792.7 | 789.5 |
| 35° | 3074.5 | 2308.6 | 899.8 | 655.6 | 731.2 | 795.8 | 803.7 | 776.9 | 704.4 | 676.0 | 668.2 |
| 37.5° | 3206.9 | 2228.3 | 753.3 | 647.7 | 742.2 | 814.7 | 827.3 | 726.5 | 631.9 | 586.2 | 578.3 |
| 40° | 3367.6 | 2171.5 | 657.1 | 644.5 | 767.4 | 858.8 | 821.0 | 687.1 | 564.2 | 498.0 | 494.8 |
| 42.5° | 3555.1 | 2119.5 | 592.5 | 643.0 | 799.0 | 904.5 | 814.7 | 654.0 | 494.8 | 450.7 | 457.0 |
| 45° | 3704.8 | 2091.2 | 548.4 | 631.9 | 810.0 | 931.3 | 819.4 | 595.7 | 466.5 | 438.1 | 441.2 |
| 47.5° | 3821.5 | 2031.3 | 512.2 | 613.0 | 808.4 | 940.8 | 776.9 | 572.0 | 452.3 | 460.2 | 468.0 |
| 50° | 3824.6 | 1950.9 | 466.5 | 572.0 | 784.8 | 923.5 | 728.0 | 550.0 | 449.1 | 482.2 | 498.0 |
| 52.5° | 3782.1 | 1837.5 | 417.6 | 513.7 | 729.6 | 863.6 | 683.9 | 540.5 | 434.9 | 431.8 | 450.7 |
| 55° | 3630.8 | 1624.7 | 335.7 | 416.0 | 616.2 | 712.3 | 644.5 | 523.2 | 392.4 | 356.1 | 359.3 |
| 57.5° | 2934.2 | 1164.6 | 247.4 | 297.8 | 436.5 | 521.6 | 581.5 | 515.3 | 353.0 | 302.6 | 304.1 |
| 60° | 1817.0 | 660.3 | 181.2 | 203.3 | 269.5 | 316.7 | 471.2 | 479.1 | 315.2 | 255.3 | 252.1 |
| 62.5° | 932.9 | 326.2 | 140.3 | 143.4 | 165.5 | 186.0 | 323.1 | 401.8 | 285.2 | 242.7 | 242.7 |
| 65° | 312.0 | 160.7 | 122.9 | 110.3 | 110.3 | 115.0 | 195.4 | 278.9 | 241.1 | 203.3 | 203.3 |
| 67.5° | 133.9 | 119.8 | 107.2 | 96.1 | 88.2 | 83.5 | 110.3 | 162.3 | 179.6 | 154.4 | 148.1 |
| 70° | 104.0 | 100.9 | 93.0 | 80.4 | 69.3 | 63.0 | 64.6 | 83.5 | 102.4 | 99.3 | 96.1 |
| 72.5° | 77.2 | 77.2 | 74.1 | 63.0 | 53.6 | 45.7 | 42.5 | 44.1 | 48.9 | 50.4 | 52.0 |
| 75° | 53.6 | 55.2 | 55.2 | 48.9 | 39.4 | 33.1 | 28.4 | 23.6 | 18.9 | 15.8 | 14.2 |
| 77.5° | 36.2 | 37.8 | 41.0 | 36.2 | 29.9 | 22.1 | 17.3 | 12.6 | 7.9 | 3.2 | 3.2 |
| 80° | 31.5 | 36.2 | 39.4 | 36.2 | 31.5 | 23.6 | 17.3 | 9.5 | 4.7 | 0.0 | 0.0 |
| 82.5° | 33.1 | 36.2 | 41.0 | 34.7 | 29.9 | 22.1 | 17.3 | 11.0 | 4.7 | 1.6 | 0.0 |
| 85° | 7.9 | 7.9 | 9.5 | 11.0 | 14.2 | 15.8 | 12.6 | 7.9 | 4.7 | 1.6 | 0.0 |
| 87.5° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 1.6 | 1.6 | 1.6 | 1.6 | 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)