

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: P530503

Luminaire Tested: **GLAN-SA5D-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5D-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21428 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

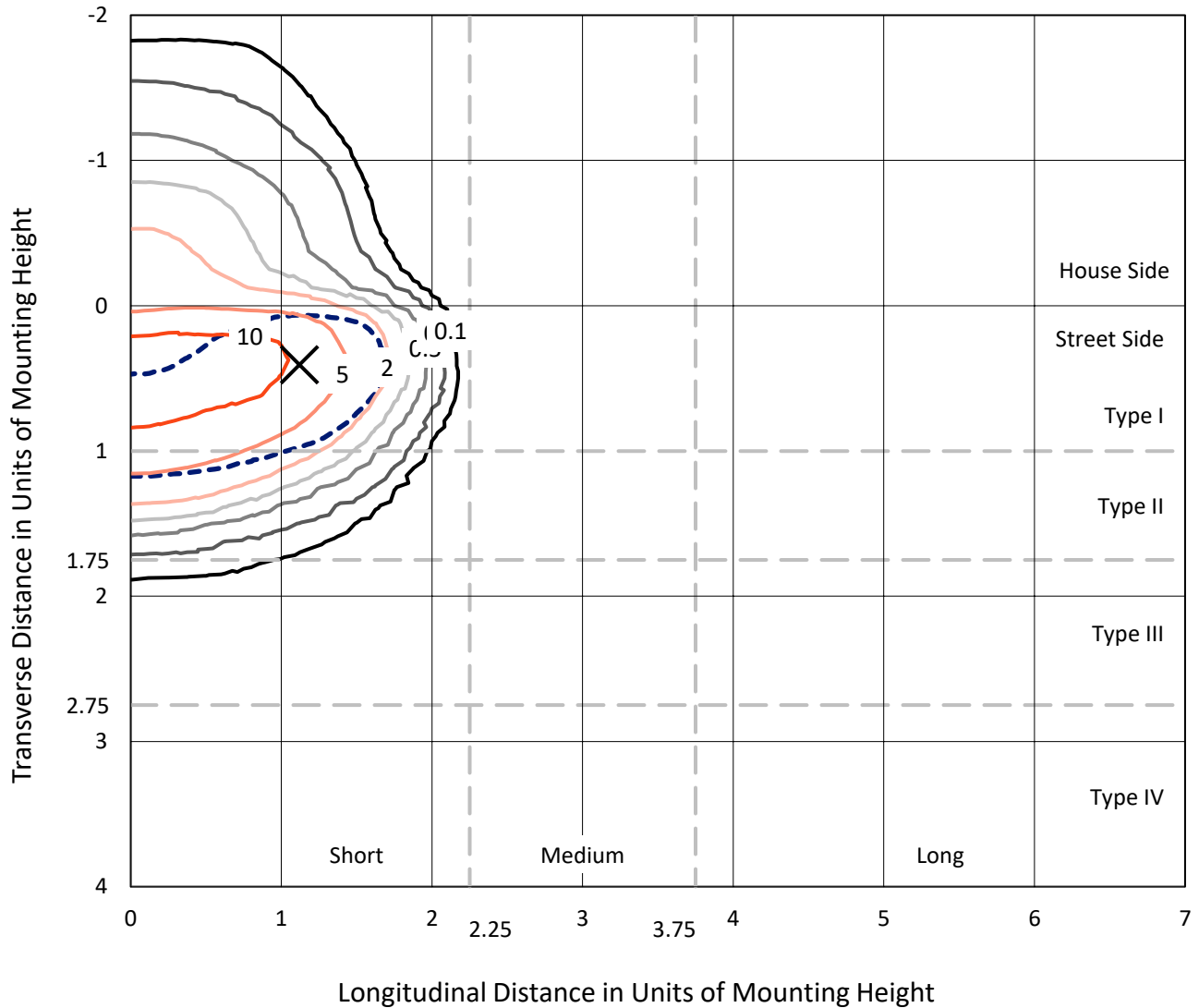
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

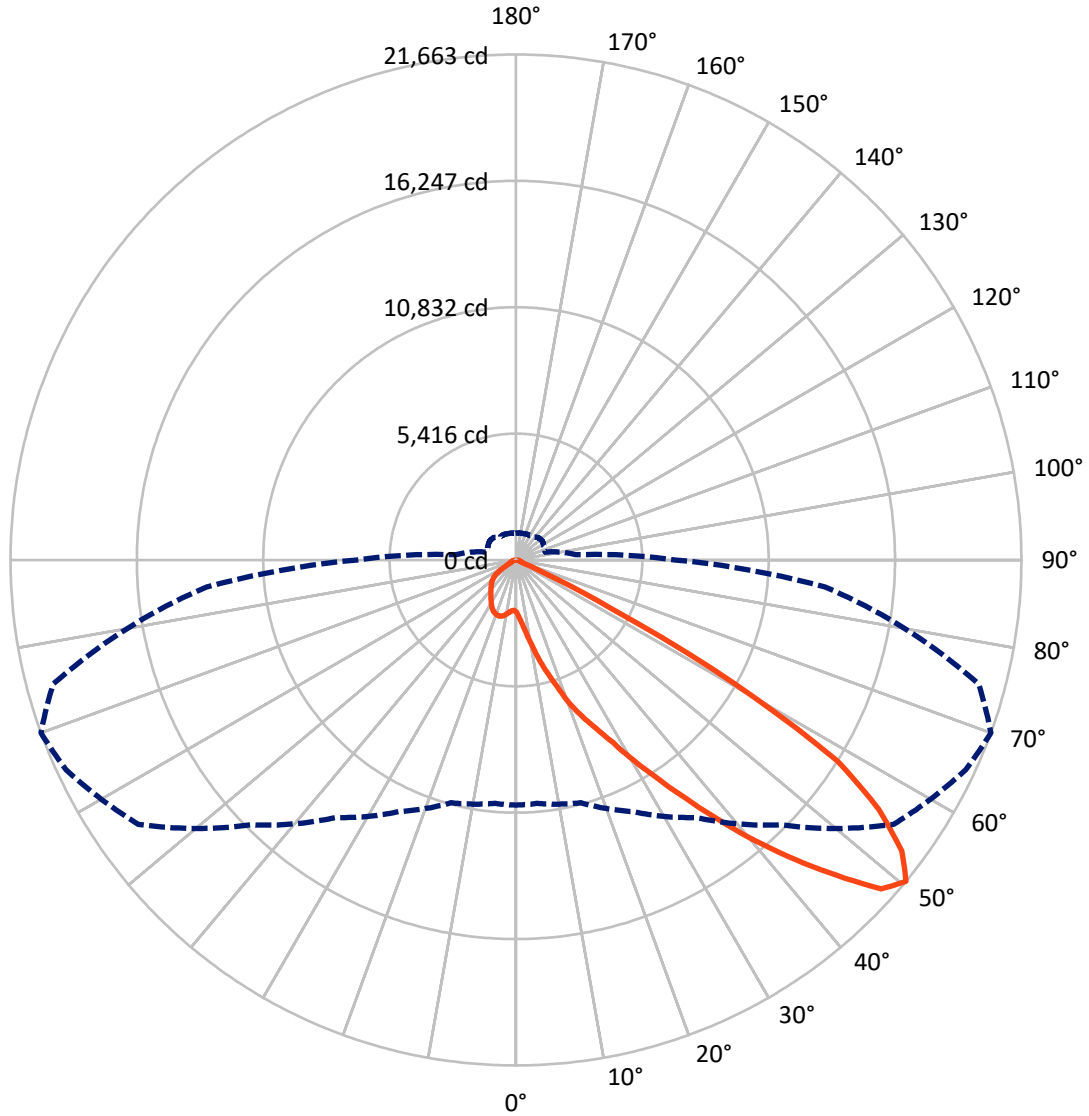
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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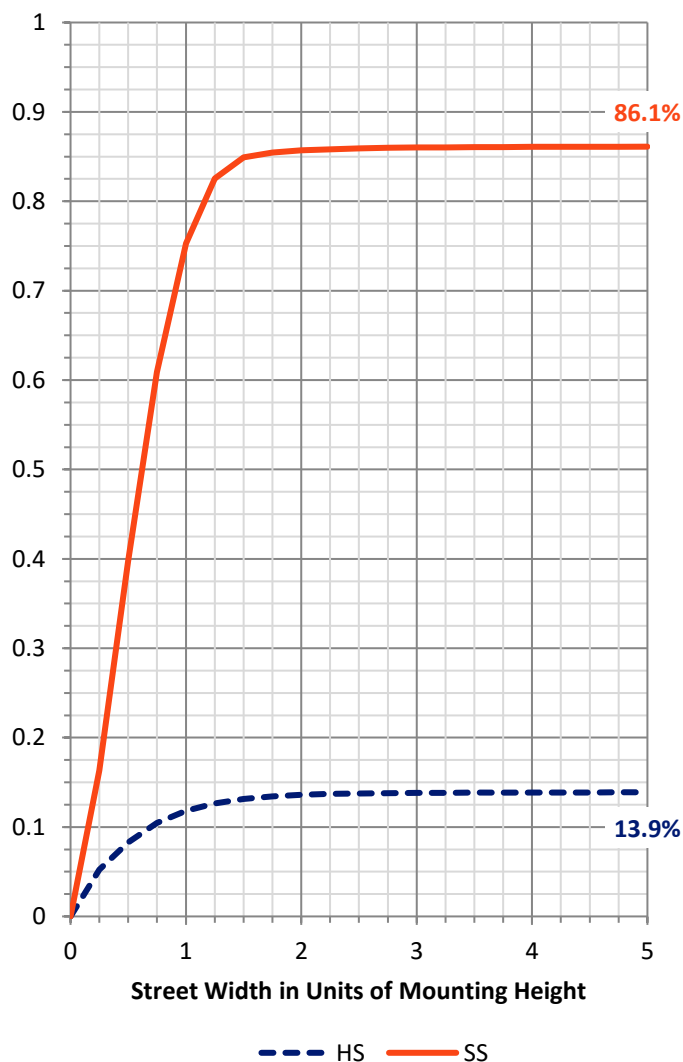
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2992.6 | 0.0 | 2992.6 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 18435.4 | 0.0 | 18435.4 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 21428.0 | 0.0 | 21428.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 288.6 | 1.3 |
| 10°-20° | 1248.5 | 5.8 |
| 20°-30° | 2619.1 | 12.2 |
| 30°-40° | 4514.4 | 21.1 |
| 40°-50° | 6597.7 | 30.8 |
| 50°-60° | 5138.5 | 24.0 |
| 60°-70° | 870.6 | 4.1 |
| 70°-80° | 119.6 | 0.6 |
| 80°-90° | 31.0 | 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° | 21428.0 | 100.0 |
| 0°-180° | 21428.0 | 100.0 |

Coefficient of Utilization



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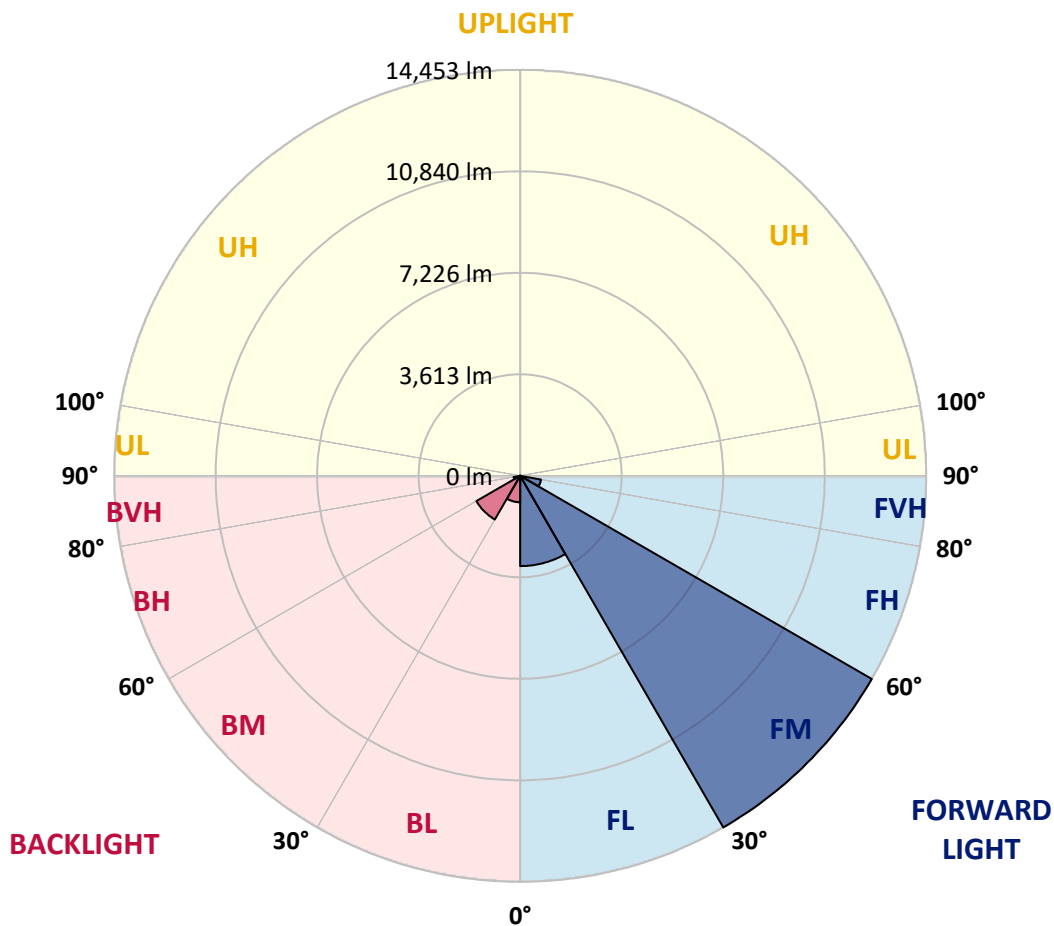
CATALOG NUMBER: GLAN-SA5D-727-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3214.5 | 15.0 | | | |
| FM (30°-60°) | 14452.8 | 67.4 | | | |
| FH (60°-80°) | 753.8 | 3.5 | | | G1/1800 |
| FVH (80°-90°) | 14.3 | 0.1 | | | G1/100 |
| BL (0°-30°) | 941.7 | 4.4 | B2/1000 | | |
| BM (30°-60°) | 1797.8 | 8.4 | B2/2500 | | |
| BH (60°-80°) | 236.4 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 16.7 | 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-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 |
| 2.5° | 2906.5 | 2885.4 | 2839.6 | 2755.0 | 2719.8 | 2635.2 | 2585.9 | 2490.8 | 2430.9 | 2364.0 | 2290.0 |
| 5° | 4093.8 | 3984.6 | 3917.6 | 3822.5 | 3544.2 | 3371.6 | 3086.2 | 2843.1 | 2730.4 | 2607.1 | 2437.9 |
| 7.5° | 5319.8 | 5249.3 | 5157.7 | 4953.4 | 4763.2 | 4403.8 | 3914.1 | 3378.6 | 3149.6 | 2938.2 | 2603.5 |
| 10° | 6334.4 | 6137.1 | 6126.6 | 5975.1 | 5767.2 | 5337.4 | 4749.1 | 4083.2 | 3674.5 | 3364.5 | 2839.6 |
| 12.5° | 7042.6 | 6862.9 | 6943.9 | 6926.3 | 6732.5 | 6338.0 | 5658.0 | 4777.3 | 4351.0 | 3868.3 | 3082.7 |
| 15° | 7687.3 | 7613.3 | 7588.6 | 7567.5 | 7490.0 | 7197.6 | 6588.1 | 5622.8 | 5006.2 | 4424.9 | 3357.5 |
| 17.5° | 8317.9 | 8127.7 | 8219.3 | 8236.9 | 8229.8 | 7965.6 | 7394.9 | 6426.0 | 5700.3 | 5013.3 | 3646.4 |
| 20° | 8878.1 | 8895.7 | 8772.4 | 8747.7 | 8726.6 | 8716.0 | 8159.4 | 7222.2 | 6552.9 | 5629.8 | 4023.3 |
| 22.5° | 9596.8 | 9473.5 | 9582.7 | 9512.2 | 9374.8 | 9290.3 | 8864.0 | 7926.9 | 7292.7 | 6373.2 | 4407.3 |
| 25° | 10445.8 | 10544.5 | 10287.3 | 10259.1 | 10107.6 | 9815.2 | 9431.2 | 8716.0 | 8004.4 | 7063.7 | 4823.0 |
| 27.5° | 11492.2 | 11319.5 | 11252.6 | 11097.6 | 10822.8 | 10699.5 | 10248.5 | 9529.8 | 8864.0 | 7789.5 | 5224.7 |
| 30° | 12390.6 | 12344.8 | 12010.1 | 11826.9 | 11587.3 | 11583.8 | 10953.1 | 10632.6 | 9984.3 | 8927.4 | 5777.8 |
| 32.5° | 13123.3 | 12922.5 | 12799.2 | 12672.4 | 12478.6 | 12531.5 | 11999.5 | 11830.4 | 11178.6 | 9984.3 | 6429.6 |
| 35° | 13613.0 | 13468.6 | 13394.6 | 13200.9 | 13144.5 | 13380.5 | 13158.6 | 13088.1 | 12552.6 | 11471.0 | 7194.1 |
| 37.5° | 13768.1 | 13813.9 | 13799.8 | 13556.7 | 13676.5 | 14314.1 | 14599.5 | 14416.3 | 14134.5 | 13038.8 | 8022.0 |
| 40° | 13905.5 | 13937.2 | 13866.7 | 14152.1 | 14493.8 | 15219.6 | 16251.8 | 15948.8 | 15843.1 | 14627.7 | 9174.0 |
| 42.5° | 13983.0 | 13958.3 | 13958.3 | 14451.5 | 14969.4 | 16428.0 | 17847.7 | 17646.9 | 17565.9 | 16318.7 | 10505.7 |
| 45° | 13648.3 | 13408.7 | 13665.9 | 14335.3 | 15378.1 | 17023.4 | 19123.1 | 19401.4 | 19285.2 | 18330.4 | 12062.9 |
| 47.5° | 12397.6 | 12545.6 | 12690.0 | 13584.9 | 14881.3 | 16840.2 | 19905.2 | 20852.9 | 21067.8 | 20021.5 | 13084.6 |
| 50° | 10505.7 | 10474.0 | 10773.5 | 11900.8 | 13475.7 | 16051.0 | 19753.7 | 21272.2 | 21663.2 | 20528.8 | 13299.5 |
| 52.5° | 7641.5 | 7874.0 | 8198.1 | 9318.5 | 11185.7 | 14007.6 | 17798.4 | 20190.6 | 20712.0 | 19905.2 | 13158.6 |
| 55° | 4449.6 | 4192.4 | 4921.7 | 5869.4 | 7630.9 | 10565.6 | 15046.9 | 17897.1 | 18862.4 | 18770.8 | 12446.9 |
| 57.5° | 1782.7 | 1726.3 | 1976.4 | 2663.4 | 3981.0 | 6549.3 | 10942.6 | 14705.2 | 16251.8 | 17192.5 | 10939.1 |
| 60° | 782.1 | 764.5 | 898.4 | 1085.1 | 1627.6 | 3019.3 | 5985.7 | 9145.8 | 10759.4 | 12013.6 | 7528.7 |
| 62.5° | 563.7 | 556.6 | 623.6 | 690.5 | 859.6 | 1314.1 | 2515.5 | 3685.1 | 4594.1 | 5548.8 | 3371.6 |
| 65° | 454.5 | 472.1 | 517.9 | 553.1 | 634.1 | 729.3 | 887.8 | 1025.2 | 1257.7 | 1303.5 | 743.4 |
| 67.5° | 369.9 | 384.0 | 426.3 | 465.0 | 479.1 | 394.6 | 408.7 | 359.4 | 359.4 | 320.6 | 257.2 |
| 70° | 271.3 | 274.8 | 324.1 | 369.9 | 295.9 | 158.5 | 278.3 | 278.3 | 250.1 | 239.6 | 218.4 |
| 72.5° | 200.8 | 204.3 | 243.1 | 229.0 | 116.3 | 98.6 | 204.3 | 225.5 | 204.3 | 193.8 | 176.2 |
| 75° | 148.0 | 151.5 | 126.8 | 52.8 | 49.3 | 63.4 | 119.8 | 155.0 | 148.0 | 144.4 | 133.9 |
| 77.5° | 28.2 | 21.1 | 17.6 | 24.7 | 35.2 | 52.8 | 77.5 | 95.1 | 98.6 | 105.7 | 98.6 |
| 80° | 3.5 | 3.5 | 10.6 | 21.1 | 38.8 | 56.4 | 81.0 | 91.6 | 95.1 | 98.6 | 91.6 |
| 82.5° | 0.0 | 3.5 | 10.6 | 21.1 | 38.8 | 52.8 | 70.5 | 81.0 | 88.1 | 91.6 | 88.1 |
| 85° | 0.0 | 3.5 | 7.0 | 17.6 | 31.7 | 38.8 | 35.2 | 24.7 | 21.1 | 24.7 | 17.6 |
| 87.5° | 0.0 | 0.0 | 3.5 | 3.5 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| 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° | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 |
| 2.5° | 2247.7 | 2233.6 | 2184.3 | 2131.4 | 2085.6 | 2106.8 | 2085.6 | 2068.0 | 2075.1 | 2068.0 | 2061.0 |
| 5° | 2371.0 | 2307.6 | 2201.9 | 2156.1 | 2117.4 | 2113.8 | 2103.3 | 2099.7 | 2103.3 | 2103.3 | 2071.6 |
| 7.5° | 2487.3 | 2385.1 | 2272.4 | 2223.0 | 2177.2 | 2180.8 | 2156.1 | 2156.1 | 2152.6 | 2135.0 | 2127.9 |
| 10° | 2663.4 | 2526.0 | 2381.6 | 2293.5 | 2237.1 | 2226.6 | 2201.9 | 2177.2 | 2177.2 | 2177.2 | 2142.0 |
| 12.5° | 2857.2 | 2684.6 | 2487.3 | 2385.1 | 2318.2 | 2265.3 | 2226.6 | 2219.5 | 2180.8 | 2173.7 | 2156.1 |
| 15° | 3026.3 | 2807.9 | 2557.7 | 2416.8 | 2332.3 | 2261.8 | 2201.9 | 2163.2 | 2145.5 | 2135.0 | 2120.9 |
| 17.5° | 3191.9 | 2913.6 | 2596.5 | 2416.8 | 2325.2 | 2244.2 | 2180.8 | 2145.5 | 2103.3 | 2110.3 | 2082.1 |
| 20° | 3413.8 | 3026.3 | 2607.1 | 2371.0 | 2258.3 | 2180.8 | 2096.2 | 2078.6 | 2053.9 | 2032.8 | 2039.8 |
| 22.5° | 3628.7 | 3107.3 | 2575.3 | 2314.6 | 2152.6 | 2061.0 | 2018.7 | 1997.6 | 1987.0 | 1969.4 | 1944.7 |
| 25° | 3822.5 | 3195.4 | 2526.0 | 2212.5 | 2039.8 | 1972.9 | 1934.2 | 1930.6 | 1906.0 | 1906.0 | 1860.2 |
| 27.5° | 4019.8 | 3227.1 | 2441.5 | 2092.7 | 1941.2 | 1902.4 | 1884.8 | 1877.8 | 1867.2 | 1842.6 | 1810.8 |
| 30° | 4245.3 | 3237.7 | 2318.2 | 1969.4 | 1853.1 | 1810.8 | 1835.5 | 1853.1 | 1807.3 | 1761.5 | 1775.6 |
| 32.5° | 4432.0 | 3213.0 | 2170.2 | 1853.1 | 1789.7 | 1768.6 | 1817.9 | 1835.5 | 1782.7 | 1733.3 | 1708.7 |
| 35° | 4657.5 | 3153.1 | 2025.8 | 1761.5 | 1726.3 | 1768.6 | 1810.8 | 1810.8 | 1705.2 | 1645.3 | 1631.2 |
| 37.5° | 4999.2 | 3086.2 | 1891.9 | 1684.0 | 1659.4 | 1747.4 | 1803.8 | 1765.0 | 1599.5 | 1525.5 | 1507.9 |
| 40° | 5365.6 | 3043.9 | 1761.5 | 1606.5 | 1624.1 | 1712.2 | 1743.9 | 1624.1 | 1455.0 | 1409.2 | 1395.1 |
| 42.5° | 5897.6 | 2959.4 | 1645.3 | 1539.6 | 1592.4 | 1662.9 | 1662.9 | 1448.0 | 1384.6 | 1359.9 | 1356.4 |
| 45° | 6559.9 | 2899.5 | 1543.1 | 1483.2 | 1546.6 | 1564.2 | 1507.9 | 1356.4 | 1310.6 | 1303.5 | 1307.0 |
| 47.5° | 6884.0 | 2783.2 | 1437.4 | 1416.3 | 1462.1 | 1465.6 | 1317.6 | 1282.4 | 1243.6 | 1233.1 | 1226.0 |
| 50° | 6834.7 | 2575.3 | 1300.0 | 1328.2 | 1391.6 | 1356.4 | 1201.4 | 1208.4 | 1173.2 | 1169.7 | 1152.0 |
| 52.5° | 6489.5 | 2247.7 | 1162.6 | 1229.5 | 1300.0 | 1197.8 | 1106.2 | 1099.2 | 1099.2 | 1053.4 | 1035.8 |
| 55° | 5753.1 | 1810.8 | 997.0 | 1081.6 | 1166.1 | 1007.6 | 982.9 | 975.9 | 958.3 | 916.0 | 905.4 |
| 57.5° | 4555.3 | 1328.2 | 750.4 | 842.0 | 990.0 | 856.1 | 852.6 | 820.9 | 775.1 | 743.4 | 743.4 |
| 60° | 2709.2 | 764.5 | 472.1 | 514.4 | 655.3 | 694.0 | 771.5 | 757.5 | 679.9 | 630.6 | 616.5 |
| 62.5° | 1236.6 | 394.6 | 299.5 | 306.5 | 352.3 | 450.9 | 606.0 | 701.1 | 591.9 | 507.3 | 500.3 |
| 65° | 415.7 | 292.4 | 246.6 | 236.0 | 243.1 | 271.3 | 362.9 | 496.7 | 472.1 | 391.1 | 377.0 |
| 67.5° | 253.7 | 260.7 | 232.5 | 214.9 | 214.9 | 211.4 | 207.9 | 225.5 | 278.3 | 271.3 | 274.8 |
| 70° | 218.4 | 239.6 | 214.9 | 193.8 | 186.7 | 176.2 | 148.0 | 123.3 | 105.7 | 123.3 | 130.4 |
| 72.5° | 176.2 | 190.2 | 183.2 | 165.6 | 148.0 | 133.9 | 105.7 | 81.0 | 59.9 | 52.8 | 52.8 |
| 75° | 130.4 | 140.9 | 148.0 | 126.8 | 112.7 | 95.1 | 77.5 | 52.8 | 31.7 | 21.1 | 21.1 |
| 77.5° | 95.1 | 105.7 | 109.2 | 98.6 | 84.6 | 66.9 | 49.3 | 35.2 | 17.6 | 7.0 | 7.0 |
| 80° | 81.0 | 95.1 | 105.7 | 98.6 | 88.1 | 63.4 | 45.8 | 24.7 | 14.1 | 3.5 | 3.5 |
| 82.5° | 77.5 | 95.1 | 105.7 | 95.1 | 84.6 | 59.9 | 45.8 | 28.2 | 10.6 | 3.5 | 3.5 |
| 85° | 17.6 | 24.7 | 31.7 | 38.8 | 45.8 | 45.8 | 35.2 | 21.1 | 10.6 | 3.5 | 3.5 |
| 87.5° | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 3.5 | 3.5 | 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)