

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: P530683

Luminaire Tested: **GLAN-SA5D-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5D-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18160 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

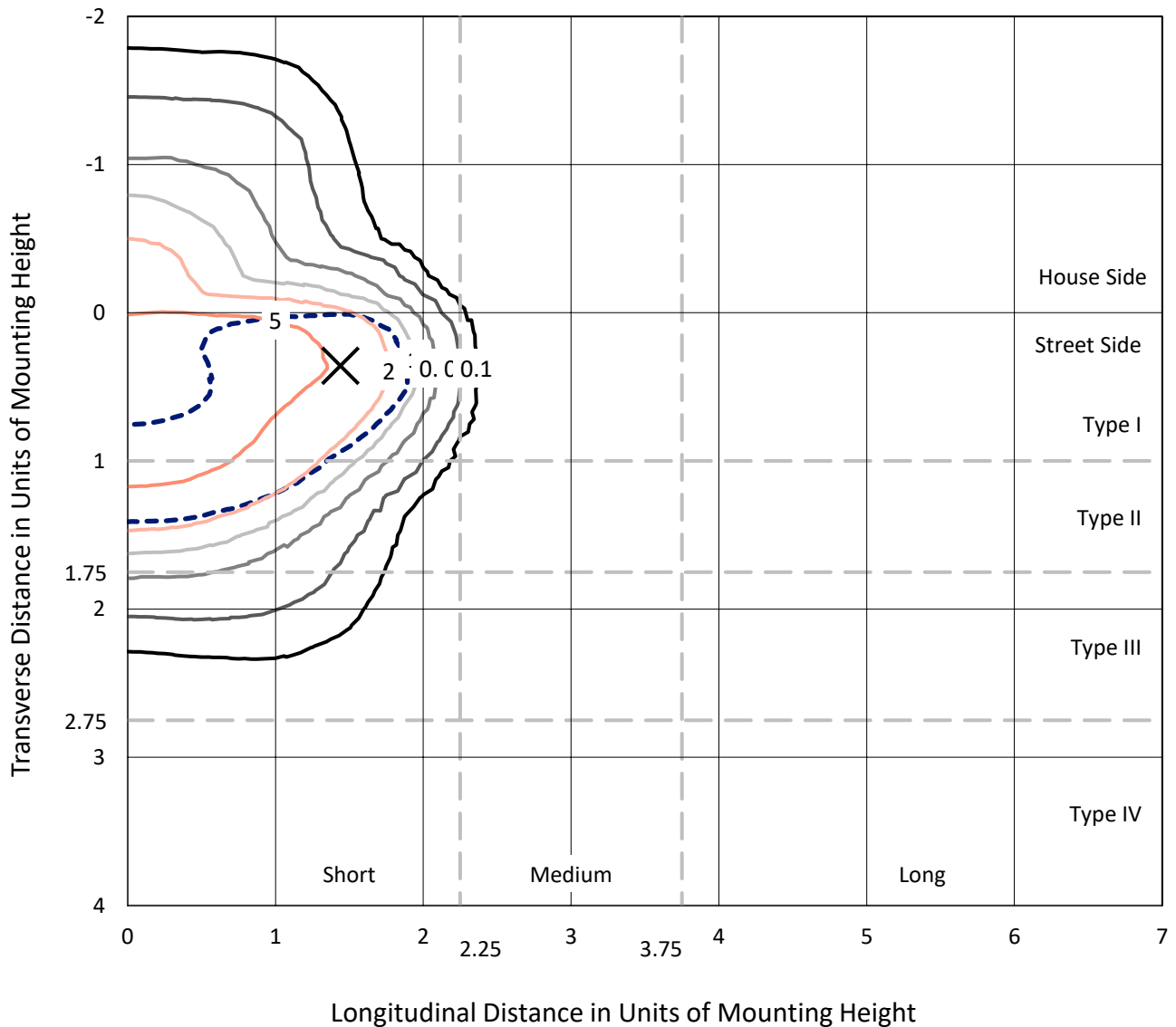
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

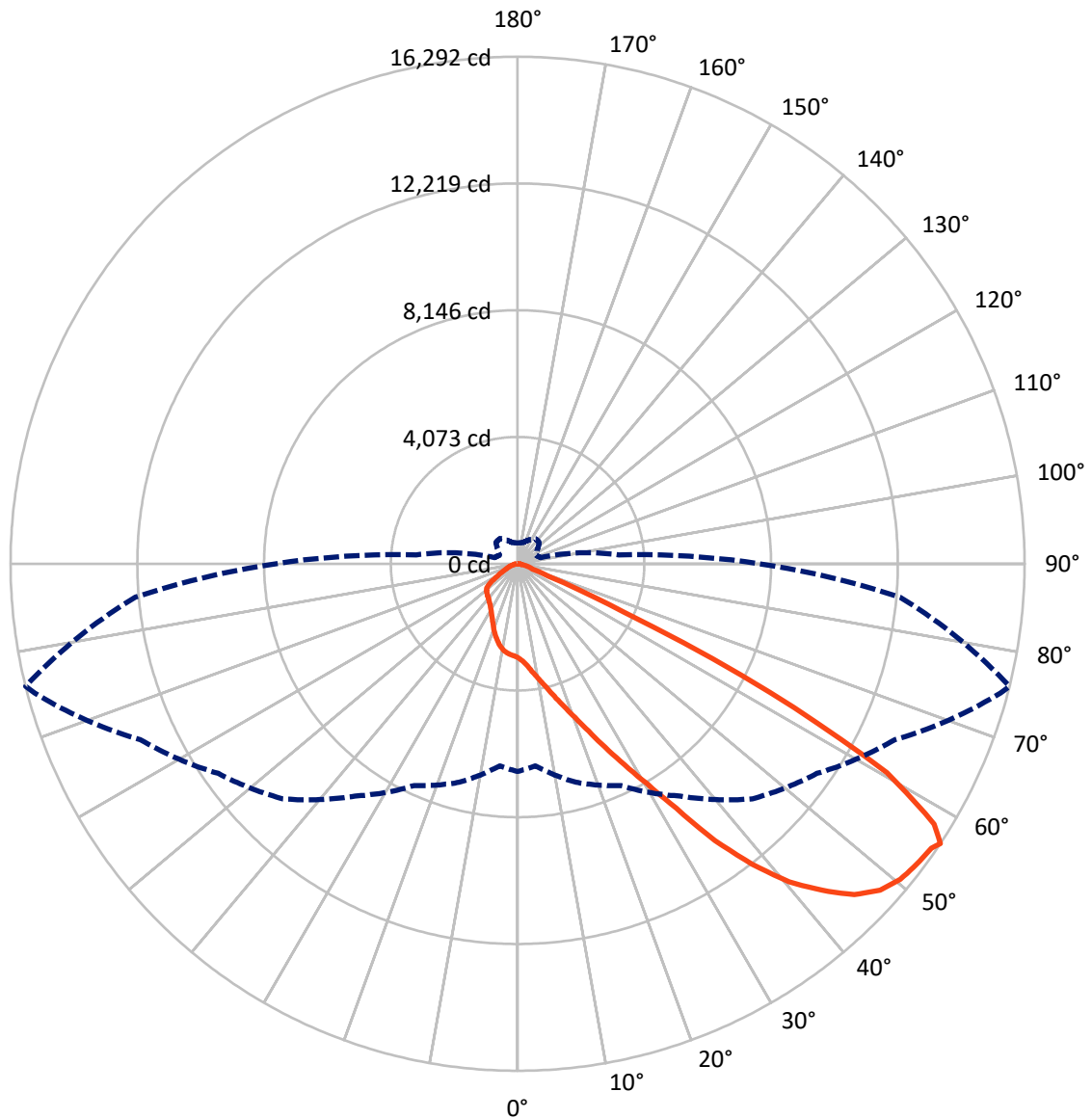
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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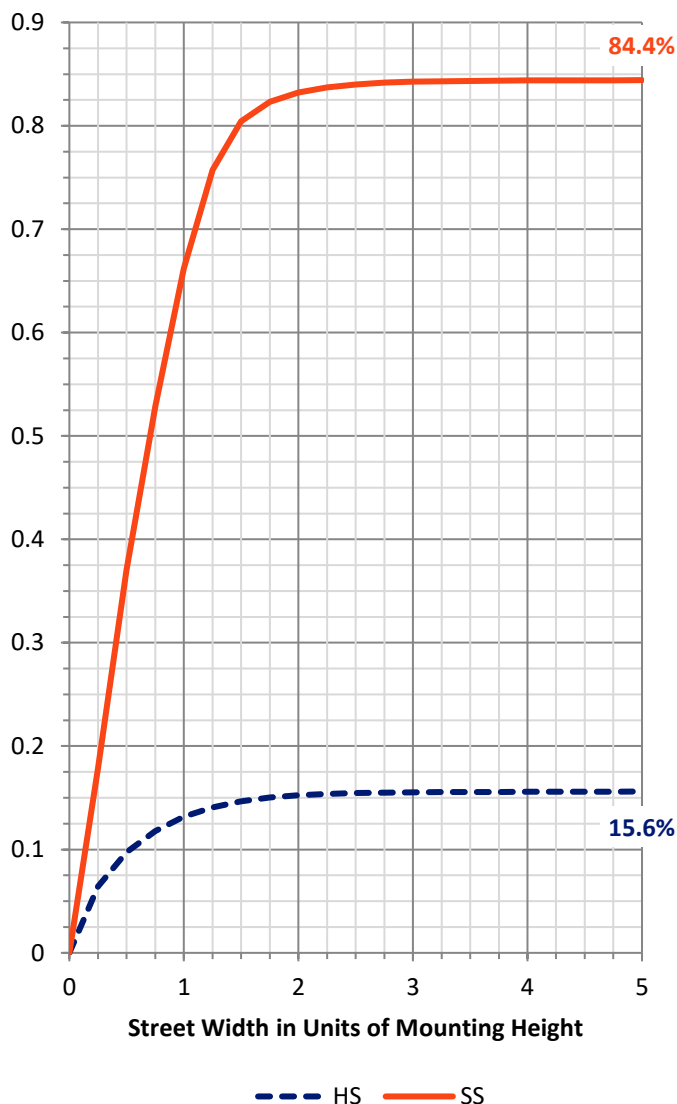
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2852.8 | 0.0 | 2852.8 |
| | % Fixture | 15.7 | 0.0 | 15.7 |
| Street Side | Lumens | 15307.2 | 0.0 | 15307.2 |
| | % Fixture | 84.3 | 0.0 | 84.3 |
| Total | Lumens | 18160.0 | 0.0 | 18160.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 304.5 | 1.7 |
| 10°-20° | 978.2 | 5.4 |
| 20°-30° | 1773.8 | 9.8 |
| 30°-40° | 3059.1 | 16.8 |
| 40°-50° | 4969.5 | 27.4 |
| 50°-60° | 5238.1 | 28.8 |
| 60°-70° | 1600.5 | 8.8 |
| 70°-80° | 205.2 | 1.1 |
| 80°-90° | 31.2 | 0.2 |
| 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° | 18160.0 | 100.0 |
| 0°-180° | 18160.0 | 100.0 |

Coefficient of Utilization

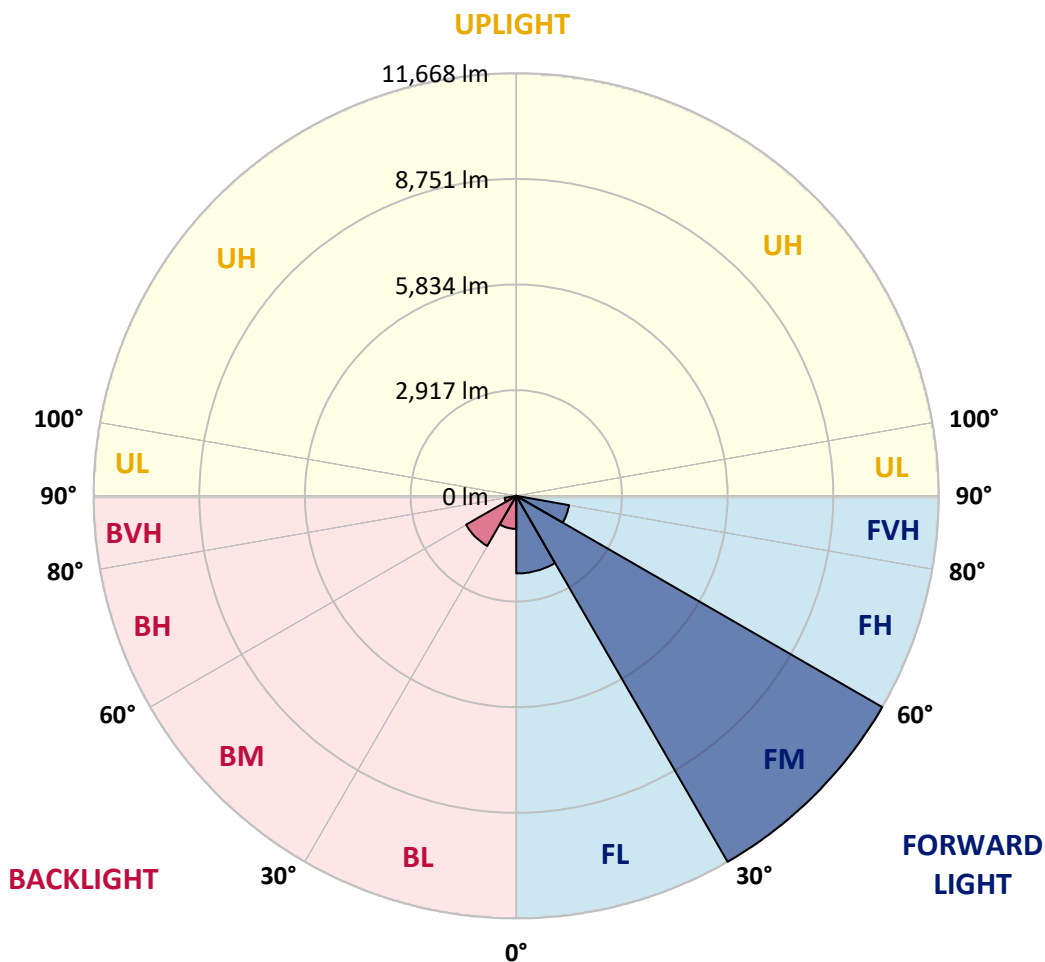


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2143.9 | 11.8 | | | |
| FM (30°-60°) | 11667.8 | 64.2 | | | |
| FH (60°-80°) | 1480.2 | 8.2 | | | G1/1800 |
| FVH (80°-90°) | 15.3 | 0.1 | | | G1/100 |
| BL (0°-30°) | 912.6 | 5.0 | B2/1000 | | |
| BM (30°-60°) | 1598.9 | 8.8 | B2/2500 | | |
| BH (60°-80°) | 325.5 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 15.9 | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3022.8 | 3022.8 | 3022.8 | 3022.8 | 3022.8 | 3022.8 | 3022.8 | 3022.8 | 3022.8 | 3022.8 | 3022.8 |
| 2.5° | 3481.4 | 3401.0 | 3404.4 | 3397.7 | 3387.6 | 3350.8 | 3240.3 | 3223.6 | 3150.0 | 3129.9 | 3062.9 |
| 5° | 3899.8 | 3829.5 | 3869.7 | 3809.4 | 3752.5 | 3719.0 | 3538.3 | 3454.6 | 3337.4 | 3293.9 | 3200.2 |
| 7.5° | 4160.9 | 4127.4 | 4114.0 | 4117.4 | 4063.8 | 3980.1 | 3899.8 | 3715.7 | 3558.4 | 3524.9 | 3327.4 |
| 10° | 4288.1 | 4268.0 | 4288.1 | 4278.1 | 4301.5 | 4311.5 | 4170.9 | 4060.5 | 3829.5 | 3772.6 | 3464.6 |
| 12.5° | 4318.2 | 4358.4 | 4375.1 | 4418.7 | 4475.6 | 4572.6 | 4562.6 | 4412.0 | 4104.0 | 4067.2 | 3675.5 |
| 15° | 4391.9 | 4425.3 | 4408.6 | 4478.9 | 4586.0 | 4750.1 | 4837.1 | 4813.7 | 4482.3 | 4415.3 | 3919.9 |
| 17.5° | 4458.8 | 4398.6 | 4455.5 | 4596.1 | 4703.2 | 4954.2 | 5165.1 | 5262.2 | 4894.0 | 4817.0 | 4144.2 |
| 20° | 4549.2 | 4532.5 | 4522.4 | 4592.7 | 4783.5 | 5118.3 | 5536.7 | 5714.1 | 5355.9 | 5275.6 | 4465.5 |
| 22.5° | 4823.7 | 4827.0 | 4820.3 | 4716.6 | 4853.8 | 5232.1 | 5861.4 | 6299.9 | 5908.3 | 5841.3 | 4830.4 |
| 25° | 5185.2 | 5141.7 | 5108.2 | 5024.5 | 5007.8 | 5335.9 | 6189.5 | 7016.3 | 6571.1 | 6524.2 | 5225.4 |
| 27.5° | 5566.8 | 5566.8 | 5466.4 | 5389.4 | 5282.3 | 5593.6 | 6490.7 | 7712.6 | 7371.1 | 7307.5 | 5570.2 |
| 30° | 5981.9 | 6005.3 | 5992.0 | 5827.9 | 5761.0 | 5874.8 | 6798.7 | 8603.0 | 8288.3 | 8208.0 | 6139.2 |
| 32.5° | 6594.5 | 6544.3 | 6601.2 | 6464.0 | 6266.5 | 6366.9 | 7284.1 | 9399.7 | 9480.0 | 9366.2 | 6885.7 |
| 35° | 7404.6 | 7374.5 | 7337.6 | 7113.4 | 6879.0 | 6959.4 | 7970.3 | 10380.5 | 10976.3 | 10919.4 | 7638.9 |
| 37.5° | 8131.0 | 8114.3 | 8084.1 | 7930.1 | 7659.0 | 7756.1 | 8750.3 | 11401.5 | 12435.8 | 12248.4 | 8703.4 |
| 40° | 8894.2 | 8984.6 | 8887.5 | 8750.3 | 8502.6 | 8716.8 | 9667.5 | 12007.4 | 13664.3 | 13436.7 | 9516.8 |
| 42.5° | 9928.6 | 9858.3 | 9901.8 | 9650.7 | 9516.8 | 9751.2 | 10588.0 | 12613.2 | 14618.4 | 14347.2 | 10380.5 |
| 45° | 11029.9 | 11033.2 | 10916.1 | 10835.7 | 10487.6 | 10742.0 | 11153.7 | 12948.0 | 15378.2 | 15167.4 | 11033.2 |
| 47.5° | 11736.2 | 11732.9 | 11860.1 | 11987.3 | 11629.1 | 11378.0 | 11538.7 | 13266.0 | 15769.9 | 15672.8 | 11270.9 |
| 50° | 11625.7 | 11659.2 | 11823.2 | 12298.6 | 12486.0 | 12147.9 | 11900.2 | 13172.3 | 15947.3 | 15937.3 | 11475.1 |
| 52.5° | 10112.7 | 10223.2 | 10497.6 | 11183.9 | 12127.9 | 12546.3 | 12278.5 | 13346.3 | 16034.3 | 16051.1 | 11779.7 |
| 55° | 7699.2 | 7759.4 | 8281.6 | 9115.1 | 10159.6 | 11592.3 | 12127.9 | 13483.6 | 16101.3 | 16131.4 | 12147.9 |
| 56° | 6678.2 | 6517.5 | 7270.7 | 7863.2 | 9111.8 | 10678.4 | 11746.2 | 13376.5 | 16061.1 | 16292.1 | 12332.1 |
| 57.5° | 5041.3 | 4934.2 | 5543.4 | 6283.2 | 7484.9 | 9138.6 | 10561.2 | 12871.0 | 15790.0 | 15786.6 | 12067.6 |
| 60° | 3066.3 | 2959.2 | 3427.8 | 3863.0 | 4535.8 | 5627.1 | 7136.8 | 10249.9 | 13349.7 | 13630.9 | 9771.2 |
| 62.5° | 1824.4 | 1891.3 | 2353.3 | 2617.7 | 2835.3 | 2949.1 | 3692.3 | 6092.4 | 8907.6 | 9108.4 | 6062.3 |
| 65° | 1215.1 | 1238.6 | 1586.7 | 2021.9 | 2118.9 | 1687.1 | 1503.0 | 2467.1 | 3863.0 | 3739.1 | 2500.6 |
| 67.5° | 749.8 | 803.4 | 1064.5 | 1519.7 | 1683.8 | 1231.9 | 713.0 | 920.6 | 1064.5 | 1064.5 | 723.1 |
| 70° | 455.3 | 482.0 | 709.7 | 1034.4 | 1154.9 | 793.3 | 518.9 | 518.9 | 512.2 | 502.1 | 431.8 |
| 72.5° | 217.6 | 234.3 | 361.5 | 532.2 | 542.3 | 418.4 | 401.7 | 438.5 | 428.5 | 425.1 | 358.2 |
| 75° | 93.7 | 100.4 | 127.2 | 167.4 | 190.8 | 177.4 | 244.4 | 314.7 | 324.7 | 314.7 | 257.8 |
| 77.5° | 30.1 | 33.5 | 46.9 | 60.3 | 63.6 | 77.0 | 103.8 | 130.6 | 150.6 | 140.6 | 127.2 |
| 80° | 3.3 | 6.7 | 13.4 | 30.1 | 46.9 | 60.3 | 77.0 | 87.0 | 97.1 | 97.1 | 90.4 |
| 82.5° | 3.3 | 3.3 | 13.4 | 26.8 | 43.5 | 56.9 | 73.6 | 83.7 | 97.1 | 100.4 | 93.7 |
| 85° | 0.0 | 3.3 | 10.0 | 23.4 | 36.8 | 36.8 | 33.5 | 33.5 | 23.4 | 23.4 | 23.4 |
| 87.5° | 0.0 | 0.0 | 3.3 | 3.3 | 3.3 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| 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° | 3022.8 | 3022.8 | 3022.8 | 3022.8 | 3022.8 | 3022.8 | 3022.8 | 3022.8 | 3022.8 | 3022.8 | 3022.8 |
| 2.5° | 3049.5 | 3042.8 | 2952.5 | 2895.6 | 2865.4 | 2805.2 | 2768.4 | 2741.6 | 2721.5 | 2698.1 | 2701.4 |
| 5° | 3089.7 | 3066.3 | 2915.6 | 2811.9 | 2688.0 | 2621.1 | 2564.2 | 2517.3 | 2487.2 | 2480.5 | 2467.1 |
| 7.5° | 3203.5 | 3079.7 | 2852.0 | 2664.6 | 2507.2 | 2440.3 | 2390.1 | 2360.0 | 2373.4 | 2343.2 | 2366.7 |
| 10° | 3290.6 | 3106.4 | 2775.0 | 2503.9 | 2346.6 | 2296.4 | 2269.6 | 2293.0 | 2326.5 | 2313.1 | 2296.4 |
| 12.5° | 3397.7 | 3133.2 | 2651.2 | 2349.9 | 2202.6 | 2165.8 | 2212.7 | 2256.2 | 2323.1 | 2349.9 | 2316.4 |
| 15° | 3518.2 | 3163.4 | 2493.9 | 2172.5 | 2078.8 | 2108.9 | 2189.2 | 2266.2 | 2333.2 | 2366.7 | 2386.7 |
| 17.5° | 3665.5 | 3153.3 | 2339.9 | 2031.9 | 1961.6 | 2048.6 | 2145.7 | 2216.0 | 2316.4 | 2366.7 | 2353.3 |
| 20° | 3802.7 | 3119.8 | 2169.2 | 1891.3 | 1894.7 | 1975.0 | 2055.3 | 2169.2 | 2222.7 | 2289.7 | 2266.2 |
| 22.5° | 3933.3 | 3059.6 | 1991.7 | 1794.2 | 1794.2 | 1918.1 | 1958.3 | 2031.9 | 2078.8 | 2112.2 | 2108.9 |
| 25° | 4117.4 | 2945.8 | 1844.5 | 1700.5 | 1740.7 | 1821.0 | 1854.5 | 1877.9 | 1857.8 | 1884.6 | 1888.0 |
| 27.5° | 4247.9 | 2828.6 | 1723.9 | 1616.8 | 1690.5 | 1750.7 | 1740.7 | 1727.3 | 1680.4 | 1643.6 | 1667.0 |
| 30° | 4388.5 | 2691.4 | 1620.2 | 1559.9 | 1600.1 | 1653.6 | 1613.5 | 1573.3 | 1499.7 | 1439.4 | 1442.8 |
| 32.5° | 4589.4 | 2627.8 | 1529.8 | 1493.0 | 1546.5 | 1553.2 | 1509.7 | 1449.5 | 1375.8 | 1318.9 | 1315.6 |
| 35° | 4964.3 | 2587.6 | 1452.8 | 1449.5 | 1459.5 | 1462.8 | 1419.3 | 1345.7 | 1315.6 | 1268.7 | 1285.4 |
| 37.5° | 5339.2 | 2567.5 | 1399.2 | 1385.8 | 1382.5 | 1385.8 | 1335.6 | 1265.3 | 1322.2 | 1318.9 | 1325.6 |
| 40° | 5817.9 | 2657.9 | 1322.2 | 1305.5 | 1308.9 | 1308.9 | 1245.3 | 1225.2 | 1325.6 | 1335.6 | 1339.0 |
| 42.5° | 6303.3 | 2771.7 | 1272.0 | 1218.5 | 1231.9 | 1231.9 | 1198.4 | 1175.0 | 1245.3 | 1178.3 | 1168.3 |
| 45° | 6725.1 | 2939.1 | 1218.5 | 1131.4 | 1164.9 | 1181.7 | 1171.6 | 1131.4 | 1087.9 | 974.1 | 974.1 |
| 47.5° | 6862.3 | 3086.4 | 1154.9 | 1047.8 | 1074.5 | 1148.2 | 1118.1 | 1034.4 | 957.4 | 863.6 | 857.0 |
| 50° | 7103.3 | 3247.0 | 1104.7 | 950.7 | 1007.6 | 1098.0 | 1067.8 | 984.2 | 897.1 | 830.2 | 833.5 |
| 52.5° | 7351.0 | 3431.1 | 1010.9 | 836.9 | 907.2 | 1057.8 | 1057.8 | 964.1 | 830.2 | 783.3 | 776.6 |
| 55° | 7722.6 | 3424.5 | 843.6 | 686.2 | 810.1 | 997.5 | 1014.3 | 863.6 | 743.1 | 706.3 | 706.3 |
| 56° | 7776.2 | 3270.5 | 759.9 | 642.7 | 766.6 | 980.8 | 984.2 | 836.9 | 709.7 | 669.5 | 669.5 |
| 57.5° | 7374.5 | 2952.5 | 666.1 | 589.2 | 713.0 | 950.7 | 954.0 | 813.4 | 682.9 | 626.0 | 619.3 |
| 60° | 5674.0 | 1998.4 | 555.7 | 525.6 | 646.1 | 857.0 | 873.7 | 739.8 | 599.2 | 555.7 | 552.3 |
| 62.5° | 3203.5 | 1108.0 | 488.7 | 475.3 | 555.7 | 729.7 | 780.0 | 646.1 | 508.8 | 485.4 | 492.1 |
| 65° | 1462.8 | 609.2 | 411.7 | 385.0 | 448.6 | 562.4 | 629.3 | 532.2 | 418.4 | 391.7 | 391.7 |
| 67.5° | 535.6 | 415.1 | 351.5 | 304.6 | 314.7 | 364.9 | 408.4 | 344.8 | 277.8 | 237.7 | 247.7 |
| 70° | 381.6 | 348.1 | 308.0 | 264.4 | 244.4 | 237.7 | 234.3 | 194.2 | 137.2 | 107.1 | 113.8 |
| 72.5° | 308.0 | 287.9 | 257.8 | 224.3 | 190.8 | 160.7 | 137.2 | 100.4 | 63.6 | 43.5 | 40.2 |
| 75° | 220.9 | 210.9 | 187.5 | 160.7 | 133.9 | 113.8 | 93.7 | 63.6 | 33.5 | 16.7 | 16.7 |
| 77.5° | 113.8 | 113.8 | 110.5 | 100.4 | 83.7 | 66.9 | 53.6 | 36.8 | 20.1 | 6.7 | 6.7 |
| 80° | 87.0 | 93.7 | 97.1 | 87.0 | 77.0 | 60.3 | 43.5 | 26.8 | 13.4 | 3.3 | 3.3 |
| 82.5° | 83.7 | 97.1 | 103.8 | 90.4 | 77.0 | 56.9 | 43.5 | 26.8 | 13.4 | 3.3 | 3.3 |
| 85° | 20.1 | 20.1 | 30.1 | 33.5 | 43.5 | 46.9 | 36.8 | 23.4 | 10.0 | 3.3 | 3.3 |
| 87.5° | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 3.3 | 3.3 | 3.3 | 3.3 | 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)