

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: P532659

Luminaire Tested: **GLAN-SA8A-735-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532659
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-SA8A-735-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA 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: 20292 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

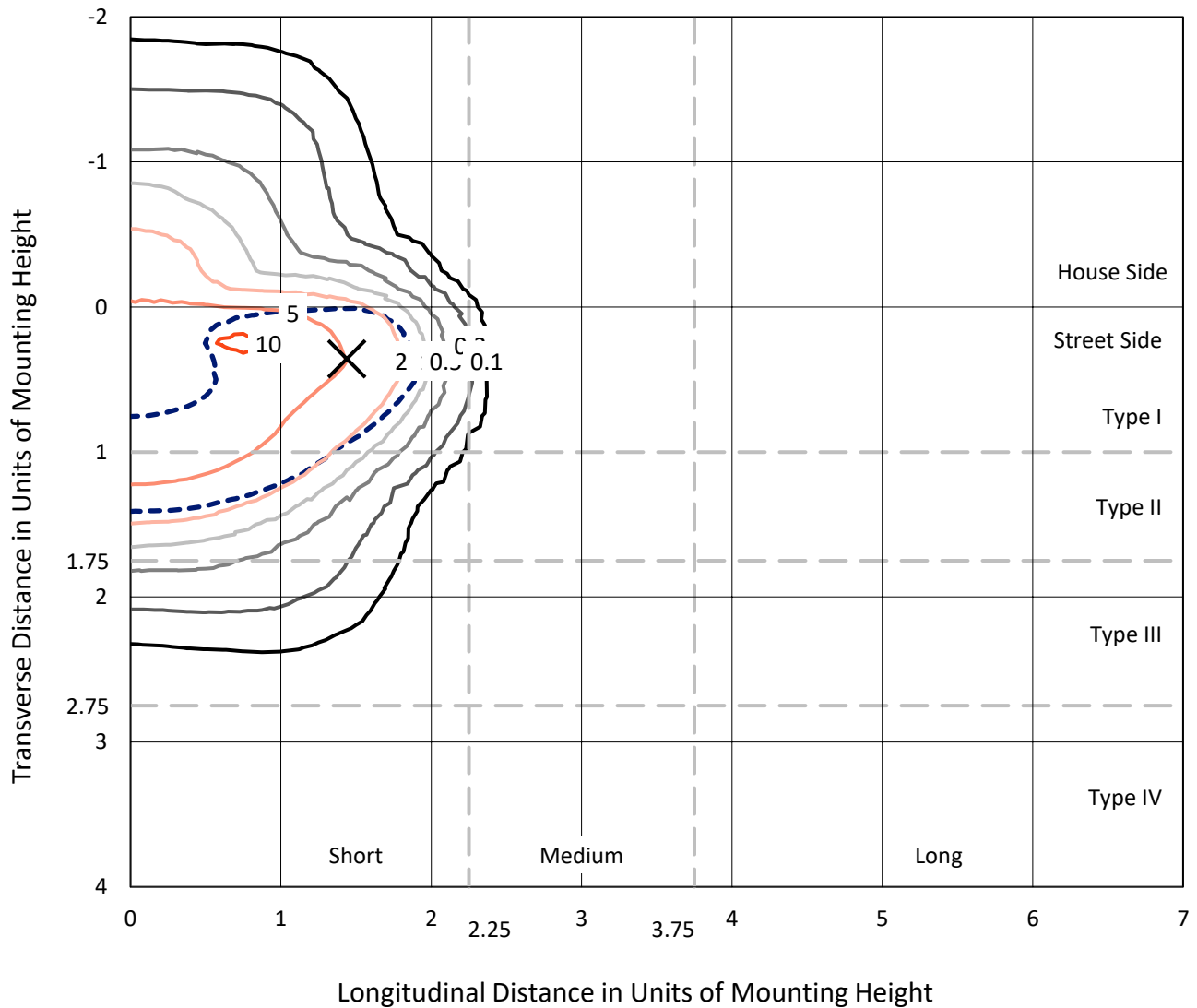
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

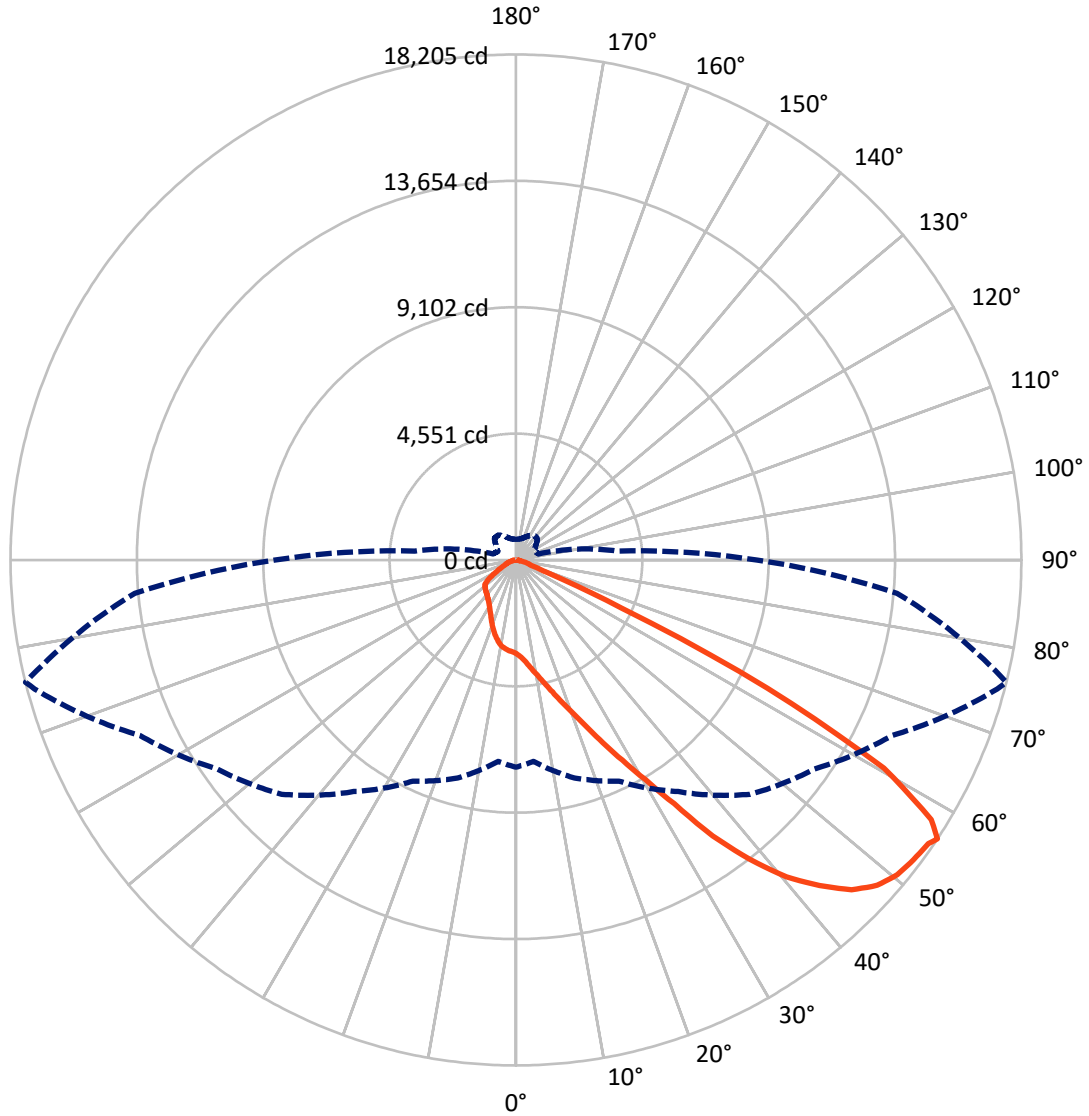
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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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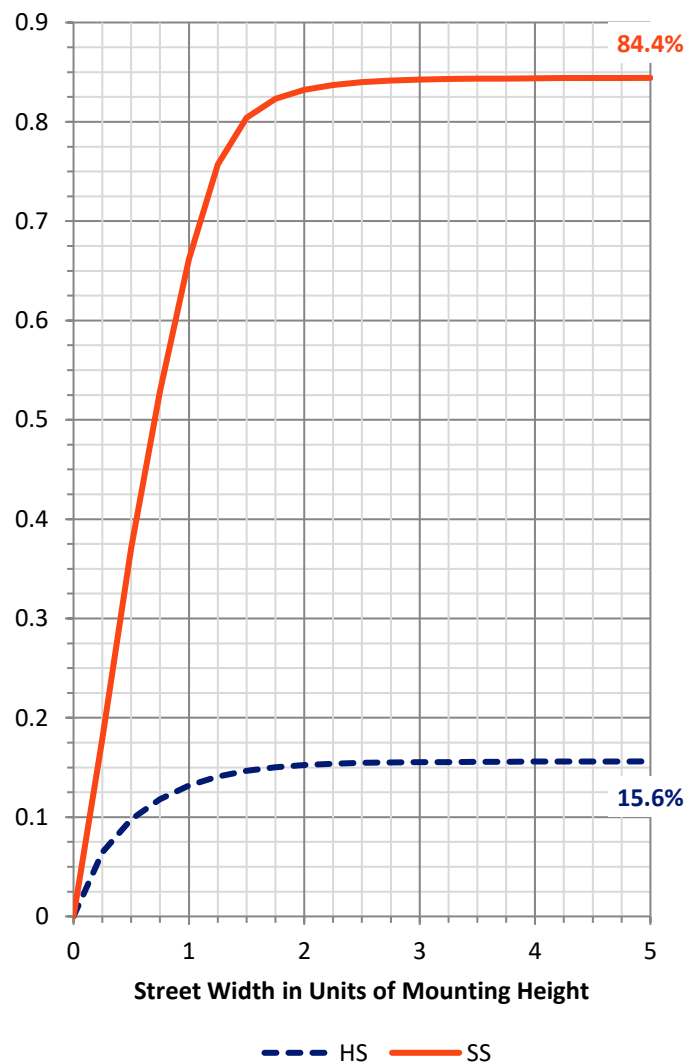
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3187.8 | 0.0 | 3187.8 |
| | % Fixture | 15.7 | 0.0 | 15.7 |
| Street Side | Lumens | 17104.2 | 0.0 | 17104.2 |
| | % Fixture | 84.3 | 0.0 | 84.3 |
| Total | Lumens | 20292.0 | 0.0 | 20292.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 340.3 | 1.7 |
| 10°-20° | 1093.1 | 5.4 |
| 20°-30° | 1982.1 | 9.8 |
| 30°-40° | 3418.2 | 16.8 |
| 40°-50° | 5553.0 | 27.4 |
| 50°-60° | 5853.0 | 28.8 |
| 60°-70° | 1788.3 | 8.8 |
| 70°-80° | 229.2 | 1.1 |
| 80°-90° | 34.8 | 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° | 20292.0 | 100.0 |
| 0°-180° | 20292.0 | 100.0 |

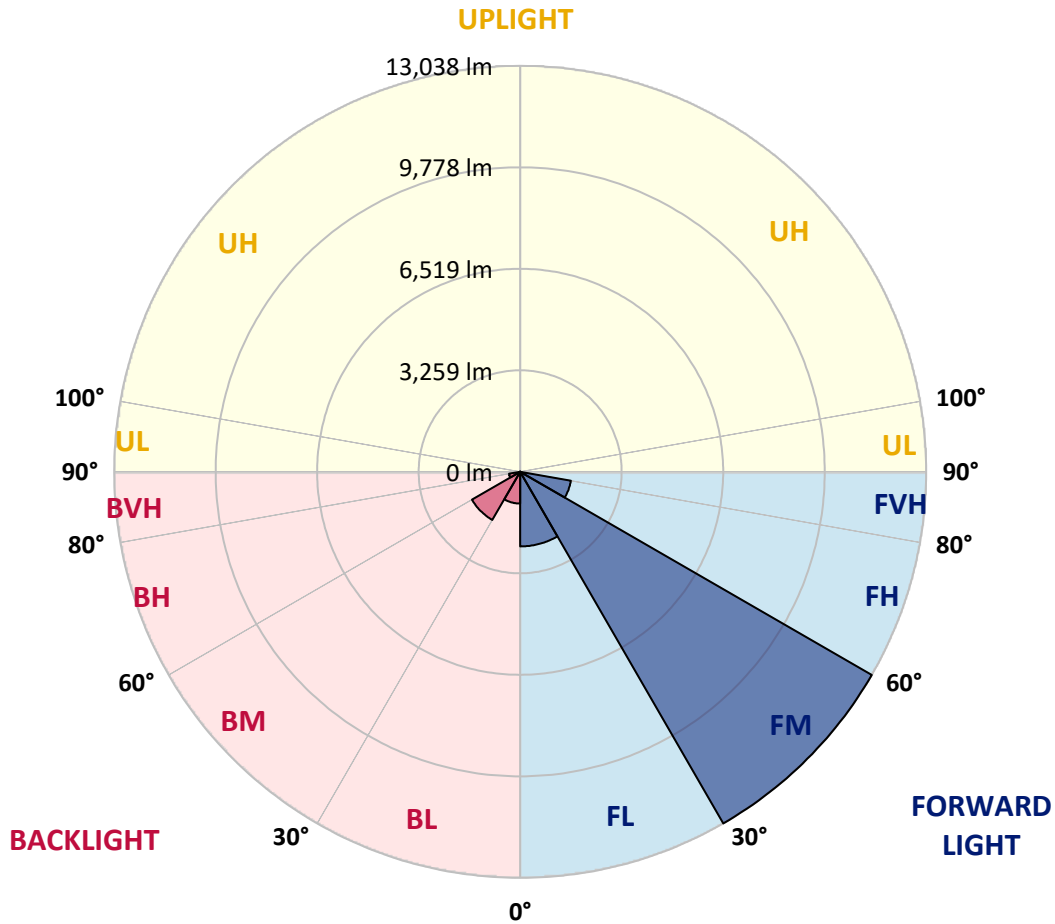


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2395.7 | 11.8 | | | |
| FM (30°-60°) | 13037.6 | 64.2 | | | |
| FH (60°-80°) | 1653.9 | 8.2 | | | G1/1800 |
| FVH (80°-90°) | 17.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1019.8 | 5.0 | B3/2500 | | |
| BM (30°-60°) | 1786.6 | 8.8 | B2/2500 | | |
| BH (60°-80°) | 363.7 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 17.8 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3377.6 | 3377.6 | 3377.6 | 3377.6 | 3377.6 | 3377.6 | 3377.6 | 3377.6 | 3377.6 | 3377.6 | 3377.6 |
| 2.5° | 3890.1 | 3800.3 | 3804.0 | 3796.6 | 3785.3 | 3744.2 | 3620.8 | 3602.1 | 3519.8 | 3497.3 | 3422.5 |
| 5° | 4357.6 | 4279.1 | 4324.0 | 4256.6 | 4193.1 | 4155.6 | 3953.7 | 3860.2 | 3729.2 | 3680.6 | 3575.9 |
| 7.5° | 4649.4 | 4612.0 | 4597.0 | 4600.8 | 4540.9 | 4447.4 | 4357.6 | 4151.9 | 3976.1 | 3938.7 | 3718.0 |
| 10° | 4791.5 | 4769.1 | 4791.5 | 4780.3 | 4806.5 | 4817.7 | 4660.6 | 4537.2 | 4279.1 | 4215.5 | 3871.4 |
| 12.5° | 4825.2 | 4870.1 | 4888.8 | 4937.4 | 5001.0 | 5109.5 | 5098.2 | 4929.9 | 4585.8 | 4544.7 | 4107.0 |
| 15° | 4907.5 | 4944.9 | 4926.2 | 5004.7 | 5124.4 | 5307.7 | 5405.0 | 5378.8 | 5008.5 | 4933.7 | 4380.1 |
| 17.5° | 4982.3 | 4915.0 | 4978.6 | 5135.6 | 5255.3 | 5535.9 | 5771.5 | 5880.0 | 5468.6 | 5382.5 | 4630.7 |
| 20° | 5083.3 | 5064.6 | 5053.4 | 5131.9 | 5345.1 | 5719.2 | 6186.7 | 6385.0 | 5984.7 | 5895.0 | 4989.8 |
| 22.5° | 5390.0 | 5393.7 | 5386.3 | 5270.3 | 5423.7 | 5846.3 | 6549.5 | 7039.5 | 6601.9 | 6527.1 | 5397.5 |
| 25° | 5794.0 | 5745.3 | 5707.9 | 5614.4 | 5595.7 | 5962.3 | 6916.1 | 7840.0 | 7342.5 | 7290.2 | 5838.9 |
| 27.5° | 6220.4 | 6220.4 | 6108.2 | 6022.1 | 5902.4 | 6250.3 | 7252.7 | 8618.0 | 8236.5 | 8165.4 | 6224.1 |
| 30° | 6684.2 | 6710.4 | 6695.4 | 6512.1 | 6437.3 | 6564.5 | 7596.9 | 9613.0 | 9261.4 | 9171.6 | 6860.0 |
| 32.5° | 7368.7 | 7312.6 | 7376.2 | 7222.8 | 7002.1 | 7114.4 | 8139.2 | 10503.2 | 10593.0 | 10465.8 | 7694.1 |
| 35° | 8273.9 | 8240.2 | 8199.1 | 7948.5 | 7686.6 | 7776.4 | 8906.0 | 11599.2 | 12265.0 | 12201.4 | 8535.7 |
| 37.5° | 9085.6 | 9066.9 | 9033.2 | 8861.1 | 8558.2 | 8666.6 | 9777.6 | 12740.0 | 13895.8 | 13686.3 | 9725.2 |
| 40° | 9938.4 | 10039.4 | 9930.9 | 9777.6 | 9500.8 | 9740.2 | 10802.4 | 13417.0 | 15268.6 | 15014.2 | 10634.1 |
| 42.5° | 11094.2 | 11015.6 | 11064.3 | 10783.7 | 10634.1 | 10896.0 | 11831.1 | 14094.0 | 16334.6 | 16031.6 | 11599.2 |
| 45° | 12324.8 | 12328.6 | 12197.6 | 12107.9 | 11718.9 | 12003.1 | 12463.2 | 14468.1 | 17183.7 | 16948.0 | 12328.6 |
| 47.5° | 13114.0 | 13110.3 | 13252.4 | 13394.6 | 12994.4 | 12713.8 | 12893.4 | 14823.4 | 17621.3 | 17512.8 | 12594.1 |
| 50° | 12990.6 | 13028.0 | 13211.3 | 13742.4 | 13951.9 | 13574.1 | 13297.3 | 14718.7 | 17819.5 | 17808.3 | 12822.3 |
| 52.5° | 11299.9 | 11423.4 | 11730.1 | 12496.9 | 13551.7 | 14019.2 | 13720.0 | 14913.2 | 17916.8 | 17935.5 | 13162.7 |
| 55° | 8603.1 | 8670.4 | 9253.9 | 10185.3 | 11352.3 | 12953.2 | 13551.7 | 15066.6 | 17991.6 | 18025.3 | 13574.1 |
| 56° | 7462.2 | 7282.7 | 8124.3 | 8786.3 | 10181.5 | 11932.1 | 13125.3 | 14946.9 | 17946.7 | 18204.8 | 13779.8 |
| 57.5° | 5633.1 | 5513.4 | 6194.2 | 7020.8 | 8363.7 | 10211.5 | 11801.1 | 14382.1 | 17643.7 | 17640.0 | 13484.4 |
| 60° | 3426.3 | 3306.6 | 3830.2 | 4316.5 | 5068.3 | 6287.7 | 7974.7 | 11453.3 | 14916.9 | 15231.1 | 10918.4 |
| 62.5° | 2038.5 | 2113.4 | 2629.5 | 2925.0 | 3168.2 | 3295.3 | 4125.7 | 6807.6 | 9953.4 | 10177.8 | 6774.0 |
| 65° | 1357.8 | 1384.0 | 1773.0 | 2259.2 | 2367.7 | 1885.2 | 1679.5 | 2756.7 | 4316.5 | 4178.1 | 2794.1 |
| 67.5° | 837.9 | 897.7 | 1189.5 | 1698.2 | 1881.5 | 1376.5 | 796.7 | 1028.6 | 1189.5 | 1189.5 | 807.9 |
| 70° | 508.7 | 538.6 | 793.0 | 1155.8 | 1290.5 | 886.5 | 579.8 | 579.8 | 572.3 | 561.1 | 482.5 |
| 72.5° | 243.1 | 261.8 | 404.0 | 594.7 | 606.0 | 467.6 | 448.9 | 490.0 | 478.8 | 475.0 | 400.2 |
| 75° | 104.7 | 112.2 | 142.1 | 187.0 | 213.2 | 198.2 | 273.1 | 351.6 | 362.8 | 351.6 | 288.0 |
| 77.5° | 33.7 | 37.4 | 52.4 | 67.3 | 71.1 | 86.0 | 116.0 | 145.9 | 168.3 | 157.1 | 142.1 |
| 80° | 3.7 | 7.5 | 15.0 | 33.7 | 52.4 | 67.3 | 86.0 | 97.3 | 108.5 | 108.5 | 101.0 |
| 82.5° | 3.7 | 3.7 | 15.0 | 29.9 | 48.6 | 63.6 | 82.3 | 93.5 | 108.5 | 112.2 | 104.7 |
| 85° | 0.0 | 3.7 | 11.2 | 26.2 | 41.1 | 41.1 | 37.4 | 37.4 | 26.2 | 26.2 | 26.2 |
| 87.5° | 0.0 | 0.0 | 3.7 | 3.7 | 3.7 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| 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° | 3377.6 | 3377.6 | 3377.6 | 3377.6 | 3377.6 | 3377.6 | 3377.6 | 3377.6 | 3377.6 | 3377.6 | 3377.6 |
| 2.5° | 3407.6 | 3400.1 | 3299.1 | 3235.5 | 3201.8 | 3134.5 | 3093.4 | 3063.4 | 3041.0 | 3014.8 | 3018.5 |
| 5° | 3452.4 | 3426.3 | 3257.9 | 3142.0 | 3003.6 | 2928.8 | 2865.2 | 2812.8 | 2779.2 | 2771.7 | 2756.7 |
| 7.5° | 3579.6 | 3441.2 | 3186.9 | 2977.4 | 2801.6 | 2726.8 | 2670.7 | 2637.0 | 2652.0 | 2618.3 | 2644.5 |
| 10° | 3676.9 | 3471.1 | 3100.8 | 2797.9 | 2622.1 | 2566.0 | 2536.0 | 2562.2 | 2599.6 | 2584.7 | 2566.0 |
| 12.5° | 3796.6 | 3501.1 | 2962.4 | 2625.8 | 2461.2 | 2420.1 | 2472.4 | 2521.1 | 2595.9 | 2625.8 | 2588.4 |
| 15° | 3931.2 | 3534.7 | 2786.6 | 2427.6 | 2322.8 | 2356.5 | 2446.3 | 2532.3 | 2607.1 | 2644.5 | 2666.9 |
| 17.5° | 4095.8 | 3523.5 | 2614.6 | 2270.5 | 2191.9 | 2289.2 | 2397.6 | 2476.2 | 2588.4 | 2644.5 | 2629.5 |
| 20° | 4249.2 | 3486.1 | 2423.8 | 2113.4 | 2117.1 | 2206.9 | 2296.6 | 2423.8 | 2483.7 | 2558.5 | 2532.3 |
| 22.5° | 4395.0 | 3418.8 | 2225.6 | 2004.9 | 2004.9 | 2143.3 | 2188.2 | 2270.5 | 2322.8 | 2360.2 | 2356.5 |
| 25° | 4600.8 | 3291.6 | 2061.0 | 1900.2 | 1945.0 | 2034.8 | 2072.2 | 2098.4 | 2076.0 | 2105.9 | 2109.6 |
| 27.5° | 4746.6 | 3160.7 | 1926.3 | 1806.6 | 1888.9 | 1956.3 | 1945.0 | 1930.1 | 1877.7 | 1836.6 | 1862.7 |
| 30° | 4903.7 | 3007.3 | 1810.4 | 1743.1 | 1787.9 | 1847.8 | 1802.9 | 1758.0 | 1675.7 | 1608.4 | 1612.1 |
| 32.5° | 5128.2 | 2936.3 | 1709.4 | 1668.2 | 1728.1 | 1735.6 | 1686.9 | 1619.6 | 1537.3 | 1473.7 | 1470.0 |
| 35° | 5547.1 | 2891.4 | 1623.4 | 1619.6 | 1630.8 | 1634.6 | 1586.0 | 1503.7 | 1470.0 | 1417.6 | 1436.3 |
| 37.5° | 5966.0 | 2868.9 | 1563.5 | 1548.5 | 1544.8 | 1548.5 | 1492.4 | 1413.9 | 1477.5 | 1473.7 | 1481.2 |
| 40° | 6500.9 | 2969.9 | 1477.5 | 1458.8 | 1462.5 | 1462.5 | 1391.5 | 1369.0 | 1481.2 | 1492.4 | 1496.2 |
| 42.5° | 7043.3 | 3097.1 | 1421.4 | 1361.5 | 1376.5 | 1376.5 | 1339.1 | 1312.9 | 1391.5 | 1316.6 | 1305.4 |
| 45° | 7514.6 | 3284.1 | 1361.5 | 1264.3 | 1301.7 | 1320.4 | 1309.2 | 1264.3 | 1215.6 | 1088.5 | 1088.5 |
| 47.5° | 7667.9 | 3448.7 | 1290.5 | 1170.8 | 1200.7 | 1283.0 | 1249.3 | 1155.8 | 1069.8 | 965.0 | 957.6 |
| 50° | 7937.3 | 3628.2 | 1234.4 | 1062.3 | 1125.9 | 1226.9 | 1193.2 | 1099.7 | 1002.4 | 927.6 | 931.4 |
| 52.5° | 8214.0 | 3834.0 | 1129.6 | 935.1 | 1013.7 | 1182.0 | 1182.0 | 1077.3 | 927.6 | 875.3 | 867.8 |
| 55° | 8629.2 | 3826.5 | 942.6 | 766.8 | 905.2 | 1114.7 | 1133.4 | 965.0 | 830.4 | 789.2 | 789.2 |
| 56° | 8689.1 | 3654.4 | 849.1 | 718.2 | 856.6 | 1096.0 | 1099.7 | 935.1 | 793.0 | 748.1 | 748.1 |
| 57.5° | 8240.2 | 3299.1 | 744.4 | 658.3 | 796.7 | 1062.3 | 1066.0 | 908.9 | 763.1 | 699.5 | 692.0 |
| 60° | 6340.1 | 2233.1 | 620.9 | 587.3 | 721.9 | 957.6 | 976.3 | 826.6 | 669.5 | 620.9 | 617.2 |
| 62.5° | 3579.6 | 1238.1 | 546.1 | 531.1 | 620.9 | 815.4 | 871.5 | 721.9 | 568.5 | 542.4 | 549.8 |
| 65° | 1634.6 | 680.8 | 460.1 | 430.2 | 501.2 | 628.4 | 703.2 | 594.7 | 467.6 | 437.6 | 437.6 |
| 67.5° | 598.5 | 463.8 | 392.7 | 340.4 | 351.6 | 407.7 | 456.3 | 385.3 | 310.5 | 265.6 | 276.8 |
| 70° | 426.4 | 389.0 | 344.1 | 295.5 | 273.1 | 265.6 | 261.8 | 216.9 | 153.4 | 119.7 | 127.2 |
| 72.5° | 344.1 | 321.7 | 288.0 | 250.6 | 213.2 | 179.5 | 153.4 | 112.2 | 71.1 | 48.6 | 44.9 |
| 75° | 246.9 | 235.6 | 209.5 | 179.5 | 149.6 | 127.2 | 104.7 | 71.1 | 37.4 | 18.7 | 18.7 |
| 77.5° | 127.2 | 127.2 | 123.4 | 112.2 | 93.5 | 74.8 | 59.8 | 41.1 | 22.4 | 7.5 | 7.5 |
| 80° | 97.3 | 104.7 | 108.5 | 97.3 | 86.0 | 67.3 | 48.6 | 29.9 | 15.0 | 3.7 | 3.7 |
| 82.5° | 93.5 | 108.5 | 116.0 | 101.0 | 86.0 | 63.6 | 48.6 | 29.9 | 15.0 | 3.7 | 3.7 |
| 85° | 22.4 | 22.4 | 33.7 | 37.4 | 48.6 | 52.4 | 41.1 | 26.2 | 11.2 | 3.7 | 3.7 |
| 87.5° | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 3.7 | 3.7 | 3.7 | 3.7 | 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)