

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: P454943

Luminaire Tested: **GLAN-SA6A-750-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454943
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6A-750-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27058 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

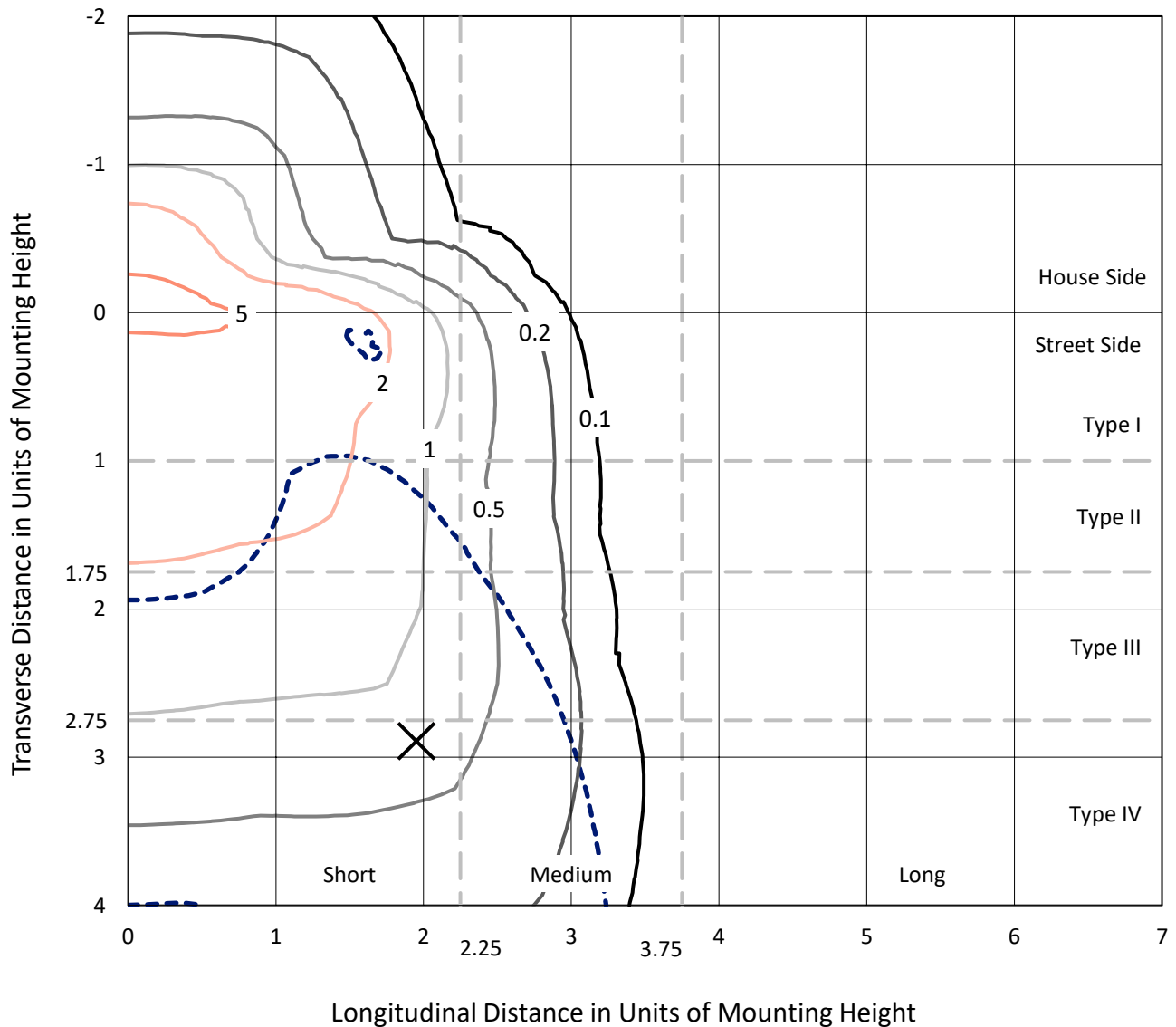
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

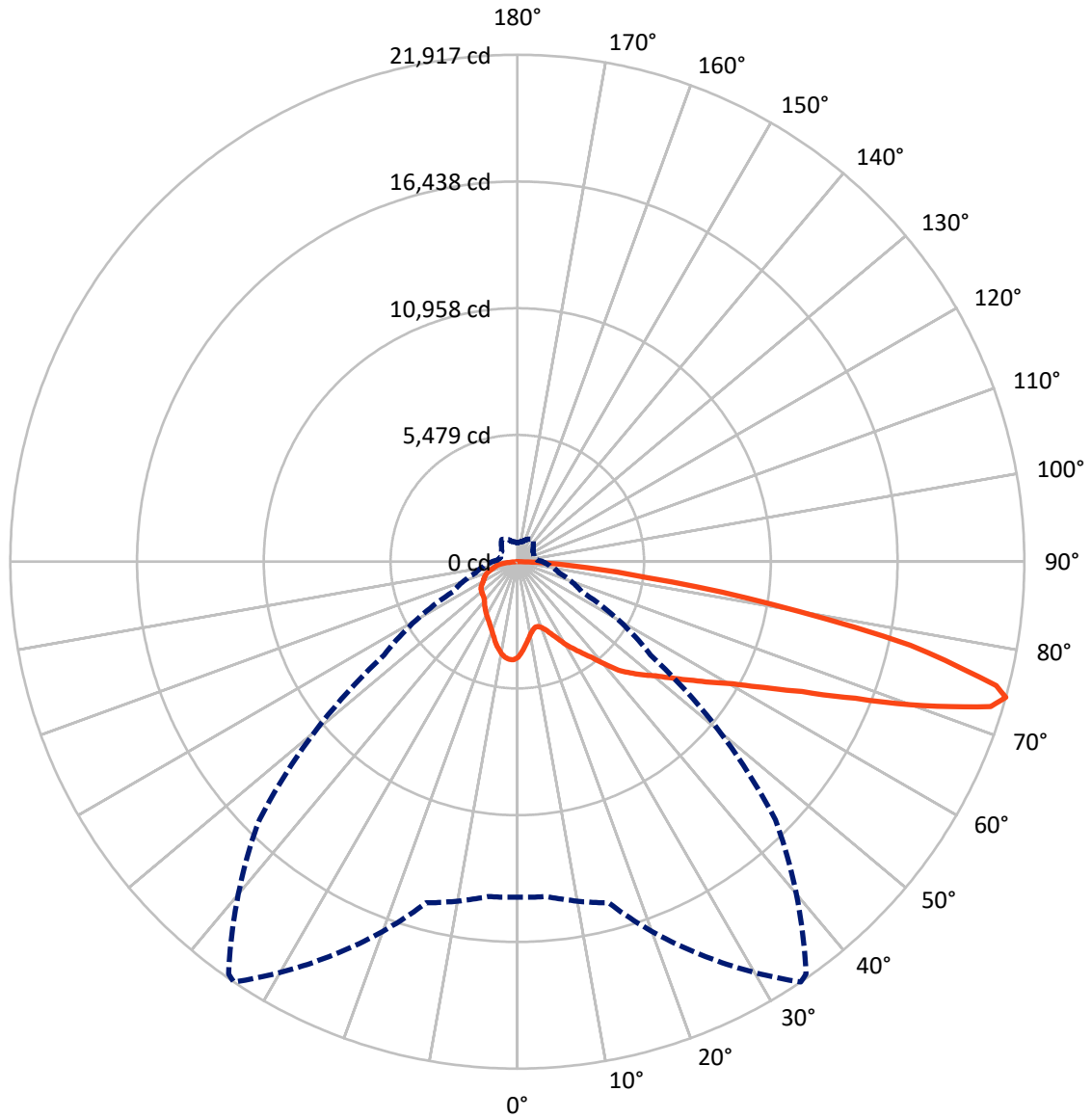
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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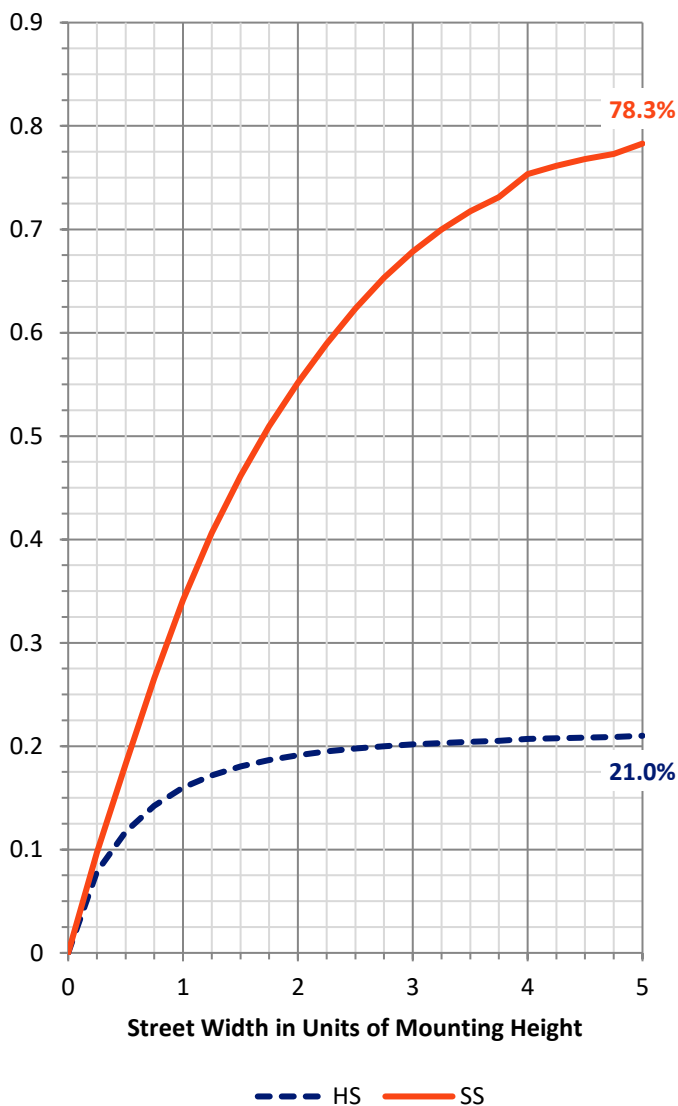
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5758.1 | 0.0 | 5758.1 |
| | % Fixture | 21.3 | 0.0 | 21.3 |
| Street Side | Lumens | 21299.9 | 0.0 | 21299.9 |
| | % Fixture | 78.7 | 0.0 | 78.7 |
| Total | Lumens | 27058.0 | 0.0 | 27058.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 375.7 | 1.4 |
| 10°-20° | 1028.5 | 3.8 |
| 20°-30° | 1695.7 | 6.3 |
| 30°-40° | 2540.0 | 9.4 |
| 40°-50° | 3692.5 | 13.6 |
| 50°-60° | 5157.6 | 19.1 |
| 60°-70° | 6457.0 | 23.9 |
| 70°-80° | 5339.4 | 19.7 |
| 80°-90° | 771.5 | 2.9 |
| 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° | 27058.0 | 100.0 |
| 0°-180° | 27058.0 | 100.0 |



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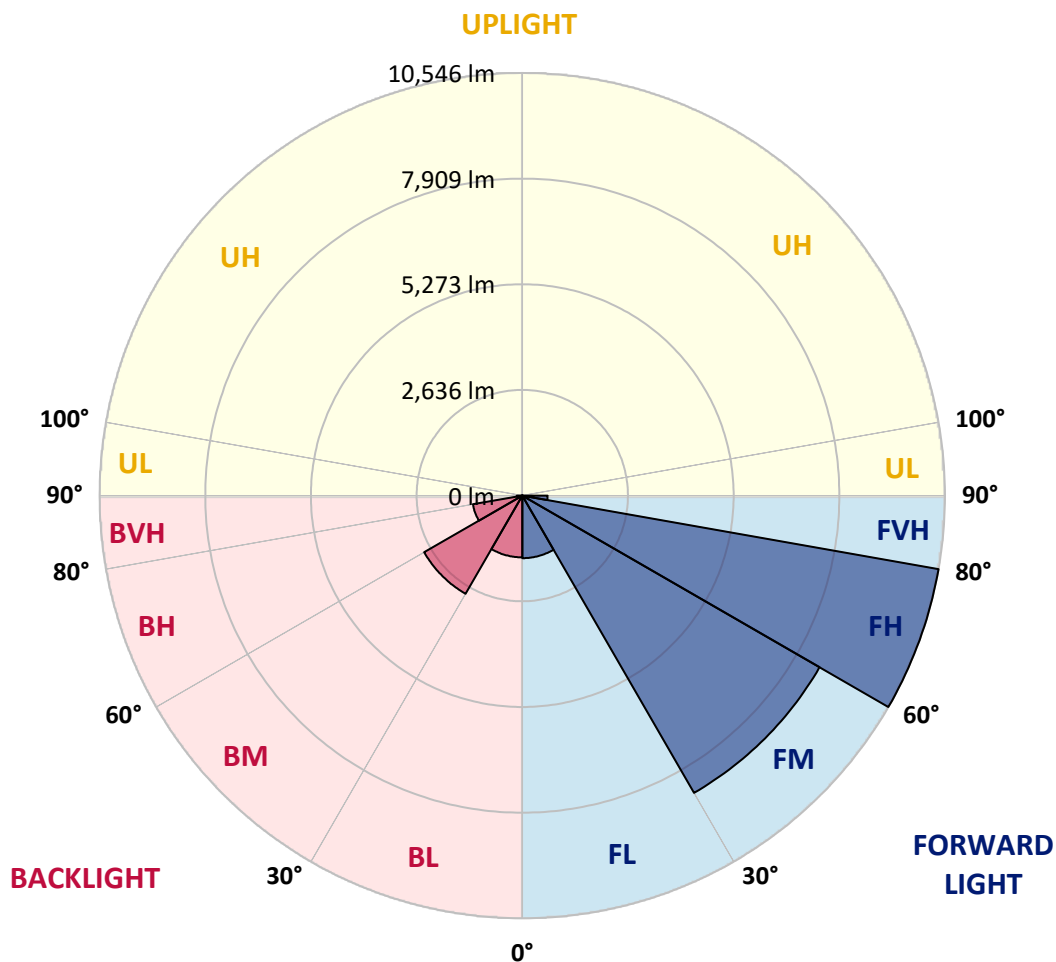
CATALOG NUMBER: GLAN-SA6A-750-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1559.8 | 5.8 | | | |
| FM | (30°-60°) | 8562.3 | 31.6 | | | |
| FH | (60°-80°) | 10545.8 | 39.0 | | | G4/12000 |
| FVH | (80°-90°) | 632.0 | 2.3 | | | G4/750 |
| BL | (0°-30°) | 1540.2 | 5.7 | B3/2500 | | |
| BM | (30°-60°) | 2827.8 | 10.5 | B3/5000 | | |
| BH | (60°-80°) | 1250.6 | 4.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 139.5 | 0.5 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|
| 0° | 4131.2 | 4131.2 | 4131.2 | 4131.2 | 4131.2 | 4131.2 | 4131.2 | 4131.2 | 4131.2 | 4131.2 | 4131.2 |
| 2.5° | 3817.9 | 3837.4 | 3847.9 | 3885.4 | 3894.4 | 3906.4 | 3937.9 | 3979.8 | 4033.8 | 4081.8 | 4123.7 |
| 5° | 3500.1 | 3530.1 | 3548.1 | 3581.1 | 3645.5 | 3651.5 | 3735.5 | 3831.4 | 3940.8 | 4042.8 | 4126.7 |
| 7.5° | 3198.8 | 3231.8 | 3246.8 | 3306.8 | 3392.2 | 3405.7 | 3528.6 | 3680.0 | 3862.9 | 4017.3 | 4146.2 |
| 10° | 2972.5 | 2989.0 | 3022.0 | 3066.9 | 3168.9 | 3177.9 | 3338.3 | 3540.6 | 3777.5 | 4005.3 | 4179.2 |
| 12.5° | 2849.6 | 2858.6 | 2866.1 | 2914.0 | 3014.5 | 3028.0 | 3195.9 | 3425.2 | 3710.0 | 4014.3 | 4233.2 |
| 15° | 2867.6 | 2870.6 | 2837.6 | 2846.6 | 2927.5 | 2947.0 | 3113.4 | 3348.7 | 3668.0 | 4036.8 | 4314.1 |
| 17.5° | 3019.0 | 3008.5 | 2927.5 | 2885.6 | 2942.5 | 2951.5 | 3096.9 | 3318.8 | 3648.5 | 4078.8 | 4398.0 |
| 20° | 3257.3 | 3242.3 | 3102.9 | 3010.0 | 3043.0 | 3050.4 | 3150.9 | 3341.3 | 3668.0 | 4147.7 | 4528.5 |
| 22.5° | 3554.1 | 3548.1 | 3336.8 | 3224.3 | 3222.8 | 3222.8 | 3275.3 | 3422.2 | 3726.5 | 4242.1 | 4664.9 |
| 25° | 3969.3 | 3937.9 | 3662.0 | 3516.6 | 3476.2 | 3473.2 | 3467.2 | 3555.6 | 3801.4 | 4342.6 | 4826.8 |
| 27.5° | 4395.0 | 4341.1 | 4095.2 | 3871.9 | 3785.0 | 3774.5 | 3735.5 | 3744.5 | 3897.4 | 4456.5 | 5011.1 |
| 30° | 4777.3 | 4742.8 | 4512.0 | 4264.6 | 4161.2 | 4137.2 | 4029.3 | 3979.8 | 4057.8 | 4661.9 | 5304.9 |
| 32.5° | 5069.6 | 5048.6 | 4868.7 | 4643.9 | 4491.0 | 4486.5 | 4329.1 | 4288.6 | 4308.1 | 4910.7 | 5640.7 |
| 35° | 5306.4 | 5313.9 | 5222.5 | 5027.6 | 4852.2 | 4826.8 | 4721.8 | 4670.9 | 4613.9 | 5270.5 | 6063.4 |
| 37.5° | 5630.2 | 5646.7 | 5640.7 | 5472.8 | 5258.5 | 5264.5 | 5240.5 | 5156.5 | 5005.1 | 5672.2 | 6532.6 |
| 40° | 5987.0 | 5999.0 | 5997.5 | 5933.0 | 5820.6 | 5826.6 | 5817.6 | 5721.7 | 5495.3 | 6183.3 | 7054.3 |
| 42.5° | 6480.1 | 6423.2 | 6274.8 | 6339.2 | 6405.2 | 6433.7 | 6495.1 | 6403.7 | 6093.4 | 6729.0 | 7544.4 |
| 45° | 7031.8 | 6923.8 | 6588.1 | 6618.0 | 6862.4 | 6916.3 | 7255.1 | 7129.2 | 6742.5 | 7355.6 | 8121.5 |
| 47.5° | 7379.5 | 7273.1 | 6989.8 | 6983.8 | 7307.6 | 7360.0 | 7959.6 | 7913.2 | 7333.1 | 8031.6 | 8826.1 |
| 50° | 7689.8 | 7674.8 | 7355.6 | 7432.0 | 7748.3 | 7826.2 | 8727.1 | 8683.7 | 7922.2 | 8829.1 | 9593.5 |
| 52.5° | 8150.0 | 8028.6 | 7773.8 | 7931.2 | 8349.4 | 8451.3 | 9488.6 | 9361.2 | 8463.3 | 9533.6 | 10338.5 |
| 55° | 8356.9 | 8328.4 | 8313.4 | 8449.8 | 9023.9 | 9097.4 | 10229.1 | 9936.8 | 8925.0 | 10130.2 | 10905.2 |
| 57.5° | 8910.0 | 8857.5 | 9005.9 | 9098.9 | 9818.4 | 9930.8 | 11002.6 | 10537.9 | 9329.7 | 10603.9 | 11181.0 |
| 60° | 9626.5 | 9598.0 | 9734.5 | 9902.3 | 10705.8 | 10876.7 | 11884.0 | 11050.6 | 9655.0 | 10842.2 | 11029.6 |
| 62.5° | 10696.8 | 10693.8 | 10668.3 | 11028.1 | 11963.5 | 12120.8 | 12895.8 | 11549.7 | 9706.0 | 10663.8 | 10247.1 |
| 65° | 12231.8 | 12177.8 | 11956.0 | 12348.7 | 13528.4 | 13712.8 | 13949.6 | 11828.5 | 9398.7 | 9747.9 | 8628.2 |
| 67.5° | 13837.2 | 13834.2 | 13654.3 | 14164.0 | 15775.4 | 15965.8 | 15267.2 | 11767.1 | 8545.8 | 7896.7 | 6127.9 |
| 70° | 15168.3 | 15103.8 | 15333.2 | 16691.3 | 18646.0 | 18866.3 | 16420.0 | 11043.1 | 6806.9 | 5215.0 | 3641.1 |
| 72.5° | 15487.6 | 15490.6 | 15967.3 | 18640.0 | 21402.6 | 21437.1 | 16835.2 | 8950.5 | 4555.4 | 2876.6 | 1821.3 |
| 74° | 14504.2 | 14529.7 | 15268.7 | 18737.4 | 21916.8 | 21760.9 | 15773.9 | 7034.8 | 3080.4 | 1878.2 | 1313.1 |
| 75° | 13239.1 | 13078.7 | 14147.5 | 18088.3 | 21383.1 | 21215.2 | 14531.2 | 5645.2 | 2350.4 | 1500.5 | 1149.7 |
| 77.5° | 7078.2 | 7241.6 | 8890.5 | 13498.4 | 17371.8 | 17178.4 | 9852.9 | 2707.2 | 1269.6 | 1044.8 | 827.4 |
| 80° | 2519.8 | 2779.1 | 3906.4 | 7063.2 | 11137.5 | 11197.5 | 4702.3 | 1241.2 | 893.4 | 770.5 | 584.6 |
| 82.5° | 1028.3 | 1056.8 | 1677.4 | 3134.4 | 5655.7 | 5709.7 | 1920.2 | 737.5 | 638.6 | 530.6 | 349.3 |
| 85° | 401.7 | 413.7 | 742.0 | 1409.1 | 2413.4 | 2570.8 | 664.1 | 389.7 | 392.7 | 304.3 | 178.4 |
| 87.5° | 134.9 | 152.9 | 304.3 | 469.2 | 819.9 | 803.5 | 193.4 | 115.4 | 140.9 | 131.9 | 55.5 |
| 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° | 4131.2 | 4131.2 | 4131.2 | 4131.2 | 4131.2 | 4131.2 | 4131.2 | 4131.2 | 4131.2 | 4131.2 | 4131.2 |
| 2.5° | 4144.7 | 4173.2 | 4192.7 | 4213.7 | 4233.2 | 4239.1 | 4234.7 | 4248.1 | 4249.6 | 4251.1 | 4252.6 |
| 5° | 4168.7 | 4207.7 | 4245.1 | 4266.1 | 4275.1 | 4267.6 | 4242.1 | 4228.7 | 4216.7 | 4207.7 | 4210.7 |
| 7.5° | 4201.7 | 4257.1 | 4291.6 | 4300.6 | 4276.6 | 4242.1 | 4179.2 | 4129.7 | 4098.2 | 4077.3 | 4075.8 |
| 10° | 4252.6 | 4306.6 | 4335.1 | 4309.6 | 4243.6 | 4159.7 | 4060.8 | 3967.8 | 3897.4 | 3876.4 | 3874.9 |
| 12.5° | 4317.1 | 4378.6 | 4377.1 | 4302.1 | 4186.7 | 4036.8 | 3876.4 | 3768.5 | 3672.5 | 3624.6 | 3644.0 |
| 15° | 4401.0 | 4447.5 | 4404.0 | 4269.1 | 4086.3 | 3880.9 | 3683.0 | 3536.1 | 3428.2 | 3377.2 | 3380.2 |
| 17.5° | 4498.5 | 4538.9 | 4423.5 | 4210.7 | 3945.3 | 3681.5 | 3452.2 | 3312.8 | 3227.3 | 3189.9 | 3186.9 |
| 20° | 4619.9 | 4631.9 | 4423.5 | 4108.7 | 3764.0 | 3449.2 | 3230.3 | 3132.9 | 3084.9 | 3065.4 | 3071.4 |
| 22.5° | 4750.3 | 4726.3 | 4399.5 | 3964.8 | 3525.6 | 3206.3 | 3059.4 | 3016.0 | 2992.0 | 2989.0 | 2992.0 |
| 25° | 4897.2 | 4829.8 | 4350.1 | 3770.0 | 3276.8 | 2996.5 | 2911.0 | 2918.5 | 2923.0 | 2923.0 | 2933.5 |
| 27.5° | 5077.1 | 4942.2 | 4267.6 | 3524.1 | 2986.0 | 2801.6 | 2777.6 | 2830.1 | 2854.1 | 2858.6 | 2866.1 |
| 30° | 5313.9 | 5065.1 | 4131.2 | 3216.8 | 2738.7 | 2626.2 | 2668.2 | 2738.7 | 2765.6 | 2782.1 | 2779.1 |
| 32.5° | 5595.7 | 5200.0 | 3946.8 | 2909.5 | 2539.3 | 2503.3 | 2554.3 | 2626.2 | 2656.2 | 2665.2 | 2653.2 |
| 35° | 5927.0 | 5352.9 | 3704.0 | 2621.7 | 2365.4 | 2386.4 | 2446.4 | 2468.8 | 2495.8 | 2495.8 | 2501.8 |
| 37.5° | 6283.8 | 5475.8 | 3407.2 | 2357.9 | 2230.5 | 2306.9 | 2350.4 | 2329.4 | 2317.4 | 2302.5 | 2309.9 |
| 40° | 6646.5 | 5567.3 | 3022.0 | 2097.1 | 2095.6 | 2224.5 | 2236.5 | 2176.5 | 2128.6 | 2113.6 | 2106.1 |
| 42.5° | 6962.8 | 5624.2 | 2674.2 | 1894.7 | 1968.2 | 2143.6 | 2152.6 | 2056.6 | 1980.2 | 1935.2 | 1920.2 |
| 45° | 7336.1 | 5690.2 | 2333.9 | 1726.8 | 1849.8 | 2079.1 | 2101.6 | 1972.7 | 1860.2 | 1765.8 | 1741.8 |
| 47.5° | 7847.2 | 5840.1 | 2065.6 | 1596.4 | 1764.3 | 2038.6 | 2070.1 | 1903.7 | 1755.3 | 1632.4 | 1612.9 |
| 50° | 8424.3 | 6045.4 | 1857.3 | 1508.0 | 1698.4 | 2002.7 | 2041.6 | 1833.3 | 1657.9 | 1521.5 | 1506.5 |
| 52.5° | 8953.5 | 6156.4 | 1677.4 | 1428.5 | 1633.9 | 1936.7 | 2004.2 | 1782.3 | 1561.9 | 1410.6 | 1397.1 |
| 55° | 9242.8 | 5976.5 | 1500.5 | 1350.6 | 1545.5 | 1851.3 | 1951.7 | 1711.8 | 1469.0 | 1352.1 | 1332.6 |
| 57.5° | 9281.8 | 5604.7 | 1340.1 | 1266.6 | 1452.5 | 1746.3 | 1854.3 | 1626.4 | 1409.1 | 1311.6 | 1295.1 |
| 60° | 8980.5 | 5050.1 | 1215.7 | 1197.7 | 1358.1 | 1627.9 | 1744.8 | 1551.5 | 1347.6 | 1266.6 | 1250.2 |
| 62.5° | 8231.0 | 4447.5 | 1128.7 | 1134.7 | 1262.2 | 1503.5 | 1663.9 | 1479.5 | 1289.1 | 1217.2 | 1202.2 |
| 65° | 6941.8 | 3671.0 | 1044.8 | 1070.3 | 1176.7 | 1406.1 | 1590.4 | 1419.5 | 1230.7 | 1179.7 | 1166.2 |
| 67.5° | 4822.3 | 2650.2 | 975.8 | 1002.8 | 1095.8 | 1307.1 | 1505.0 | 1355.1 | 1164.7 | 1137.7 | 1116.7 |
| 70° | 2669.7 | 1630.9 | 894.9 | 926.4 | 1011.8 | 1196.2 | 1409.1 | 1257.7 | 1068.8 | 1056.8 | 1026.8 |
| 72.5° | 1403.1 | 1038.8 | 803.5 | 837.9 | 897.9 | 1053.8 | 1262.2 | 1151.2 | 974.3 | 923.4 | 884.4 |
| 74° | 1095.8 | 851.4 | 742.0 | 778.0 | 818.4 | 969.8 | 1175.2 | 1074.8 | 906.9 | 846.9 | 817.0 |
| 75° | 954.9 | 758.5 | 689.5 | 736.0 | 772.0 | 912.9 | 1107.8 | 1020.8 | 869.4 | 812.5 | 785.5 |
| 77.5° | 674.5 | 568.1 | 563.6 | 619.1 | 638.6 | 800.5 | 998.3 | 929.4 | 775.0 | 715.0 | 689.5 |
| 80° | 473.7 | 425.7 | 446.7 | 481.2 | 508.2 | 707.5 | 926.4 | 803.5 | 635.6 | 565.1 | 556.1 |
| 82.5° | 308.8 | 278.8 | 319.3 | 350.8 | 359.8 | 521.6 | 748.0 | 610.1 | 463.2 | 376.2 | 349.3 |
| 85° | 142.4 | 139.4 | 182.9 | 178.4 | 176.9 | 254.8 | 443.7 | 356.8 | 266.8 | 199.4 | 187.4 |
| 87.5° | 36.0 | 34.5 | 45.0 | 37.5 | 45.0 | 39.0 | 40.5 | 10.5 | 1.5 | 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)