

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: P317650

Luminaire Tested: **GAN-SA6C-722-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6C-722-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32399 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

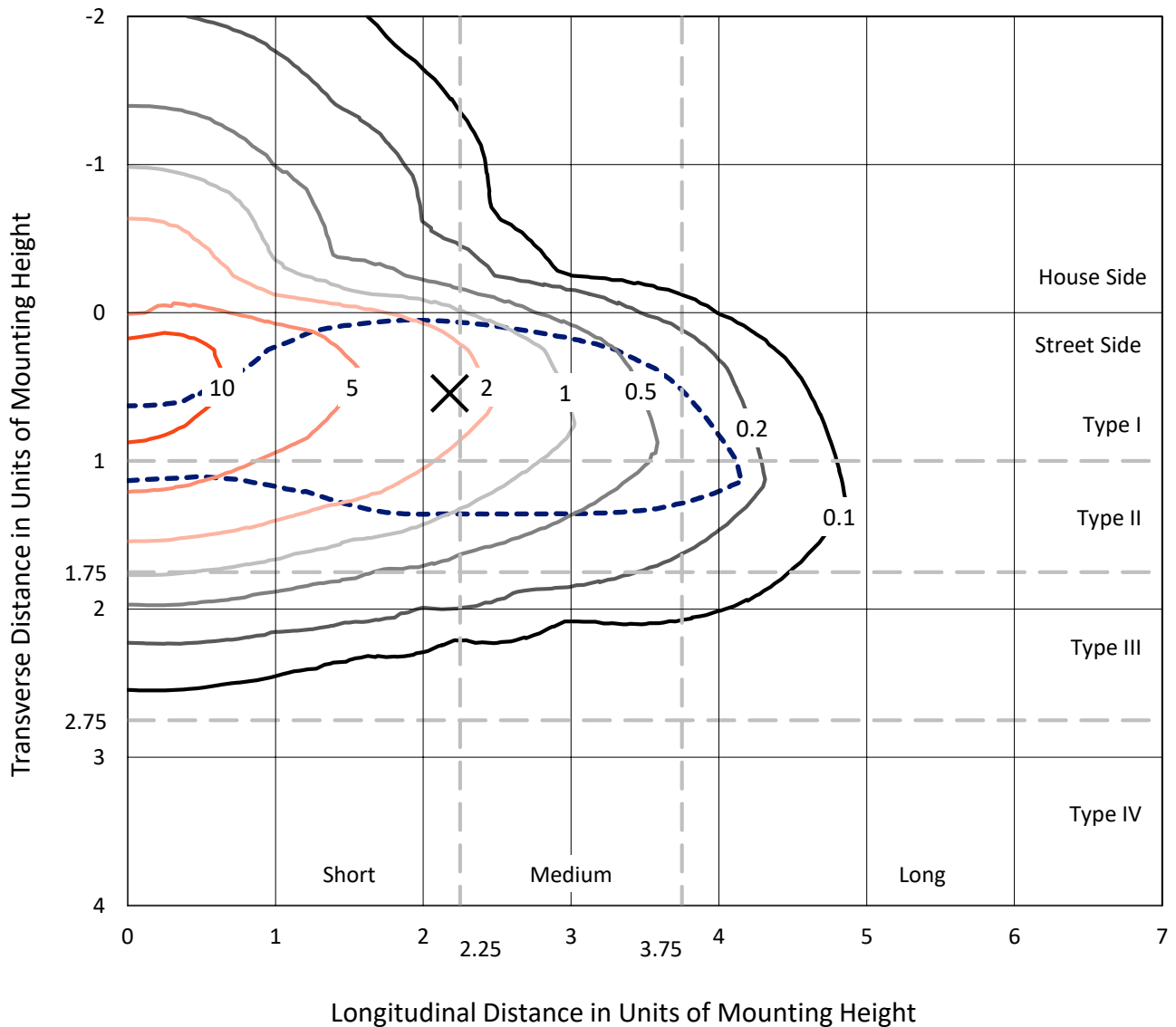
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

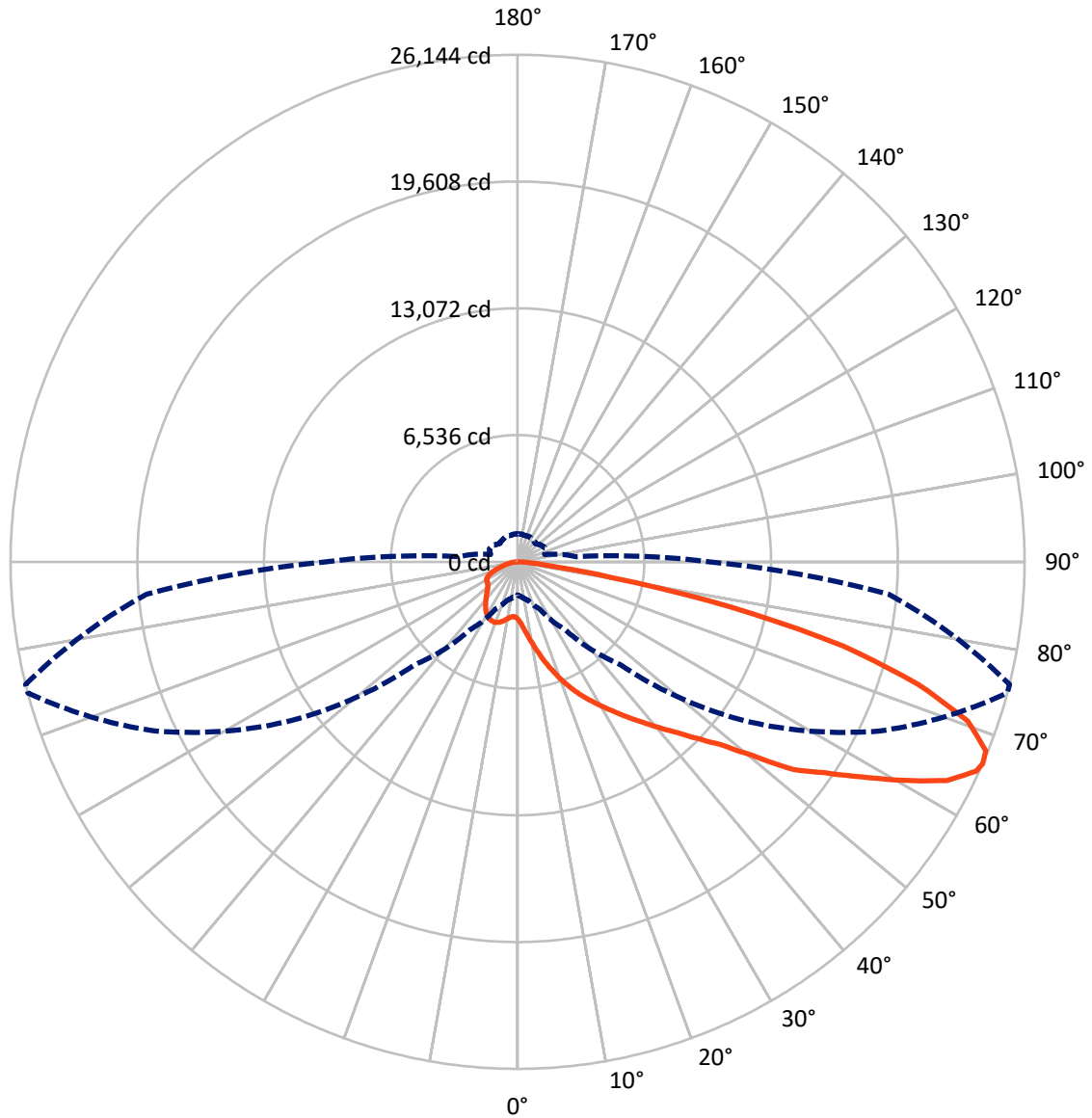
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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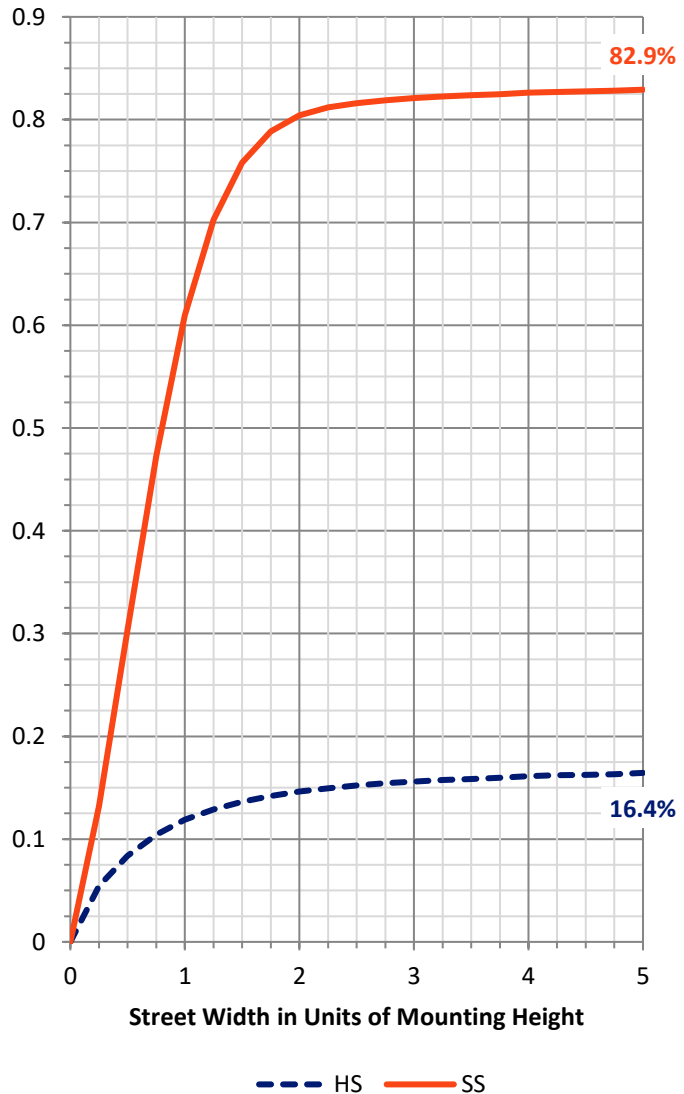
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5451.7 | 0.0 | 5451.7 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 26947.4 | 0.0 | 26947.4 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 32399.0 | 0.0 | 32399.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 357.8 | 1.1 |
| 10°-20° | 1412.9 | 4.4 |
| 20°-30° | 2745.6 | 8.5 |
| 30°-40° | 4481.5 | 13.8 |
| 40°-50° | 6122.8 | 18.9 |
| 50°-60° | 7131.8 | 22.0 |
| 60°-70° | 6393.8 | 19.7 |
| 70°-80° | 3231.1 | 10.0 |
| 80°-90° | 521.8 | 1.6 |
| 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° | 32399.0 | 100.0 |
| 0°-180° | 32399.0 | 100.0 |

Coefficient of Utilization



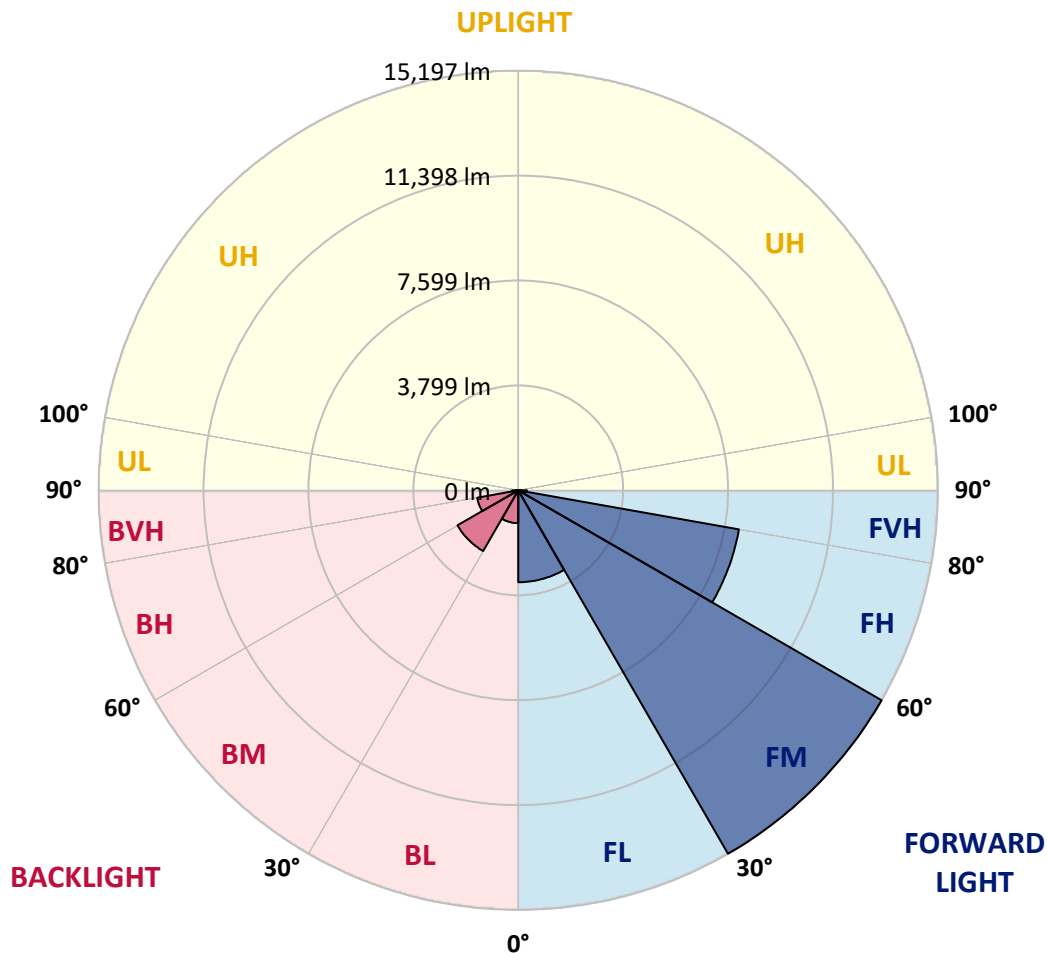
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 CATALOG NUMBER: GAN-SA6C-722-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3327.3 | 10.3 | | | |
| FM (30°-60°) | 15197.4 | 46.9 | | | |
| FH (60°-80°) | 8114.5 | 25.0 | | | G4/12000 |
| FVH (80°-90°) | 308.2 | 1.0 | | | G3/500 |
| BL (0°-30°) | 1189.0 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 2538.6 | 7.8 | B3/5000 | | |
| BH (60°-80°) | 1510.4 | 4.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 213.6 | 0.7 | | | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2958.8 | 2958.8 | 2958.8 | 2958.8 | 2958.8 | 2958.8 | 2958.8 | 2958.8 | 2958.8 | 2958.8 | 2958.8 |
| 2.5° | 3927.8 | 3868.4 | 3862.9 | 3776.0 | 3756.2 | 3590.1 | 3468.0 | 3340.4 | 3195.2 | 3166.6 | 3052.3 |
| 5° | 5045.3 | 5039.8 | 4963.9 | 4822.0 | 4710.9 | 4427.1 | 4146.7 | 3849.7 | 3524.1 | 3471.3 | 3213.9 |
| 7.5° | 6050.6 | 6041.8 | 5983.5 | 5830.6 | 5670.0 | 5321.4 | 4921.0 | 4465.6 | 3937.7 | 3859.6 | 3432.8 |
| 10° | 6813.9 | 6810.6 | 6790.8 | 6678.7 | 6542.3 | 6207.9 | 5765.7 | 5144.3 | 4418.3 | 4311.6 | 3706.7 |
| 12.5° | 7403.5 | 7410.1 | 7423.3 | 7383.7 | 7318.8 | 7033.9 | 6580.8 | 5863.6 | 4930.9 | 4825.3 | 4011.4 |
| 15° | 7802.8 | 7822.6 | 7890.8 | 7946.9 | 7981.0 | 7806.1 | 7367.2 | 6599.5 | 5505.1 | 5378.6 | 4349.0 |
| 17.5° | 8004.0 | 8026.0 | 8143.7 | 8313.1 | 8469.3 | 8451.7 | 8103.0 | 7301.2 | 6056.1 | 5934.0 | 4712.0 |
| 20° | 8177.8 | 8194.3 | 8326.3 | 8529.8 | 8805.9 | 8928.0 | 8732.2 | 7976.6 | 6660.0 | 6514.8 | 5097.0 |
| 22.5° | 8681.6 | 8702.5 | 8742.1 | 8857.6 | 9101.8 | 9326.1 | 9231.5 | 8615.6 | 7213.2 | 7077.9 | 5462.2 |
| 25° | 9653.9 | 9679.2 | 9593.4 | 9495.5 | 9541.7 | 9697.9 | 9715.5 | 9198.6 | 7774.2 | 7621.3 | 5854.8 |
| 27.5° | 10825.3 | 10861.6 | 10715.3 | 10463.4 | 10243.5 | 10183.0 | 10162.1 | 9675.9 | 8309.8 | 8132.7 | 6243.1 |
| 30° | 11972.5 | 12035.2 | 11844.9 | 11518.3 | 11114.6 | 10830.8 | 10620.7 | 10143.4 | 8837.8 | 8668.4 | 6609.4 |
| 32.5° | 13093.3 | 13068.0 | 12792.0 | 12473.0 | 12000.0 | 11644.8 | 11136.6 | 10644.9 | 9431.7 | 9237.0 | 6973.4 |
| 35° | 13861.1 | 13869.9 | 13613.6 | 13235.2 | 12784.3 | 12511.5 | 11827.3 | 11186.1 | 10037.8 | 9858.5 | 7387.0 |
| 37.5° | 14514.4 | 14473.7 | 14183.3 | 13830.3 | 13442.0 | 13325.4 | 12635.8 | 11782.2 | 10694.4 | 10498.6 | 7827.0 |
| 40° | 14732.2 | 14684.9 | 14494.6 | 14240.5 | 13929.3 | 13919.4 | 13527.8 | 12457.6 | 11436.9 | 11243.3 | 8323.0 |
| 42.5° | 14600.2 | 14539.7 | 14461.6 | 14392.3 | 14296.6 | 14340.6 | 14365.9 | 13249.5 | 12253.0 | 12036.3 | 8897.2 |
| 45° | 14113.0 | 14021.7 | 14076.7 | 14227.3 | 14435.2 | 14683.8 | 15122.7 | 14126.2 | 13167.0 | 12985.5 | 9571.4 |
| 47.5° | 13363.9 | 13281.4 | 13453.0 | 13775.3 | 14340.6 | 14969.8 | 15838.7 | 15094.1 | 14258.1 | 14077.8 | 10531.6 |
| 50° | 12310.2 | 12334.4 | 12579.7 | 13165.9 | 14020.6 | 15101.8 | 16720.8 | 16375.5 | 15844.2 | 15675.9 | 11841.6 |
| 52.5° | 10581.1 | 10585.5 | 11276.3 | 12238.7 | 13453.0 | 15033.6 | 17210.3 | 18013.2 | 18009.9 | 17806.5 | 13088.9 |
| 55° | 8975.3 | 9073.2 | 9619.8 | 10899.0 | 12533.5 | 14760.8 | 17552.4 | 18809.6 | 19432.1 | 19193.4 | 14251.5 |
| 57.5° | 7406.8 | 7464.0 | 7982.1 | 9266.7 | 11221.3 | 14033.8 | 17903.2 | 19765.4 | 21071.0 | 20920.3 | 15696.8 |
| 60° | 5622.7 | 5710.7 | 6246.4 | 7433.2 | 9542.8 | 12743.6 | 17936.2 | 20763.0 | 23029.9 | 22878.1 | 17310.4 |
| 62.5° | 3649.5 | 3801.3 | 4302.9 | 5414.9 | 7512.4 | 10888.0 | 17170.7 | 21415.3 | 24886.6 | 24832.7 | 18742.5 |
| 65° | 2097.5 | 2211.9 | 2560.6 | 3418.5 | 5182.8 | 8558.4 | 15350.4 | 21164.5 | 26029.4 | 25998.6 | 19278.1 |
| 66° | 1713.7 | 1785.2 | 2052.4 | 2671.7 | 4276.5 | 7515.7 | 14292.2 | 20635.4 | 26142.7 | 26143.8 | 19216.5 |
| 67.5° | 1370.5 | 1402.4 | 1522.3 | 1912.7 | 3155.6 | 5957.1 | 12401.5 | 19468.4 | 26001.9 | 26040.4 | 18819.5 |
| 70° | 1134.0 | 1150.5 | 1187.9 | 1282.5 | 1722.5 | 3592.3 | 8802.6 | 16436.0 | 24588.5 | 24618.2 | 17269.7 |
| 72.5° | 1017.4 | 1027.3 | 1041.6 | 1054.8 | 1215.4 | 2007.3 | 5376.4 | 13148.3 | 21558.2 | 21596.7 | 14908.2 |
| 75° | 921.7 | 927.2 | 925.0 | 926.1 | 1019.6 | 1279.2 | 2778.4 | 9816.7 | 17431.4 | 17354.4 | 11420.4 |
| 77.5° | 809.5 | 815.0 | 804.0 | 806.2 | 901.9 | 983.3 | 1382.6 | 6872.2 | 11763.5 | 11220.2 | 6434.5 |
| 80° | 684.1 | 688.5 | 684.1 | 691.8 | 785.3 | 742.4 | 804.0 | 3866.2 | 5201.5 | 4919.9 | 2287.8 |
| 82.5° | 517.0 | 535.7 | 548.9 | 579.7 | 646.7 | 528.0 | 537.9 | 1505.8 | 1583.9 | 1508.0 | 701.7 |
| 85° | 226.6 | 276.1 | 413.6 | 443.3 | 486.2 | 316.8 | 353.1 | 613.8 | 644.5 | 624.7 | 255.2 |
| 87.5° | 59.4 | 64.9 | 204.6 | 257.4 | 269.5 | 143.0 | 183.7 | 279.4 | 294.8 | 279.4 | 84.7 |
| 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° | 2958.8 | 2958.8 | 2958.8 | 2958.8 | 2958.8 | 2958.8 | 2958.8 | 2958.8 | 2958.8 | 2958.8 | 2958.8 |
| 2.5° | 2991.8 | 2937.9 | 2841.1 | 2755.3 | 2690.4 | 2646.4 | 2602.4 | 2580.4 | 2567.2 | 2554.0 | 2556.2 |
| 5° | 3087.4 | 2978.6 | 2812.5 | 2694.8 | 2628.8 | 2587.0 | 2565.0 | 2556.2 | 2550.7 | 2537.5 | 2537.5 |
| 7.5° | 3231.5 | 3077.5 | 2848.8 | 2727.8 | 2676.1 | 2644.2 | 2631.0 | 2626.6 | 2620.0 | 2604.6 | 2606.8 |
| 10° | 3413.0 | 3197.4 | 2924.7 | 2807.0 | 2759.7 | 2724.5 | 2705.8 | 2699.2 | 2687.1 | 2669.5 | 2671.7 |
| 12.5° | 3626.4 | 3345.9 | 3024.8 | 2901.6 | 2844.4 | 2797.1 | 2766.3 | 2747.6 | 2726.7 | 2703.6 | 2704.7 |
| 15° | 3859.6 | 3507.6 | 3132.5 | 2986.3 | 2908.2 | 2842.2 | 2792.7 | 2760.8 | 2727.8 | 2699.2 | 2698.1 |
| 17.5° | 4096.1 | 3663.8 | 3215.0 | 3032.5 | 2926.9 | 2840.0 | 2772.9 | 2723.4 | 2682.7 | 2647.5 | 2644.2 |
| 20° | 4351.2 | 3804.6 | 3261.2 | 3028.1 | 2891.7 | 2788.3 | 2699.2 | 2637.6 | 2592.5 | 2557.3 | 2551.8 |
| 22.5° | 4610.8 | 3936.6 | 3268.9 | 2983.0 | 2813.6 | 2687.1 | 2593.6 | 2525.4 | 2479.2 | 2442.9 | 2429.7 |
| 25° | 4848.4 | 4038.9 | 3237.0 | 2896.1 | 2704.7 | 2568.3 | 2477.0 | 2407.7 | 2370.3 | 2327.4 | 2314.2 |
| 27.5° | 5065.1 | 4110.4 | 3173.2 | 2785.0 | 2582.6 | 2448.4 | 2362.6 | 2303.2 | 2262.5 | 2229.5 | 2218.5 |
| 30° | 5259.8 | 4148.9 | 3068.8 | 2653.0 | 2457.2 | 2335.1 | 2262.5 | 2221.8 | 2186.6 | 2144.8 | 2137.1 |
| 32.5° | 5444.6 | 4148.9 | 2934.6 | 2508.9 | 2332.9 | 2235.0 | 2192.1 | 2166.8 | 2127.2 | 2086.5 | 2075.5 |
| 35° | 5629.3 | 4123.6 | 2776.2 | 2358.2 | 2218.5 | 2163.5 | 2161.3 | 2131.6 | 2071.1 | 2016.1 | 2001.8 |
| 37.5° | 5824.0 | 4071.9 | 2598.0 | 2217.4 | 2125.0 | 2131.6 | 2150.3 | 2084.3 | 1998.5 | 1920.4 | 1899.5 |
| 40° | 6044.0 | 4000.4 | 2413.2 | 2095.3 | 2046.9 | 2117.3 | 2120.6 | 2016.1 | 1848.9 | 1777.5 | 1758.8 |
| 42.5° | 6302.5 | 3928.9 | 2241.6 | 1987.5 | 1985.3 | 2074.4 | 2064.5 | 1868.7 | 1768.7 | 1732.4 | 1722.5 |
| 45° | 6642.4 | 3888.2 | 2078.8 | 1885.2 | 1936.9 | 2005.1 | 1968.8 | 1787.4 | 1745.6 | 1724.7 | 1715.9 |
| 47.5° | 7178.0 | 3909.1 | 1929.2 | 1803.9 | 1888.5 | 1935.8 | 1790.7 | 1754.4 | 1724.7 | 1699.4 | 1690.6 |
| 50° | 7849.0 | 3897.0 | 1808.3 | 1747.8 | 1833.6 | 1863.2 | 1710.4 | 1711.5 | 1696.1 | 1667.5 | 1654.3 |
| 52.5° | 8353.8 | 3802.4 | 1730.2 | 1715.9 | 1785.2 | 1734.6 | 1659.8 | 1669.7 | 1662.0 | 1620.2 | 1605.9 |
| 55° | 8841.1 | 3721.0 | 1690.6 | 1703.8 | 1750.0 | 1574.0 | 1600.4 | 1624.6 | 1616.9 | 1576.2 | 1569.6 |
| 57.5° | 9447.1 | 3705.6 | 1666.4 | 1707.1 | 1720.3 | 1493.7 | 1543.2 | 1575.1 | 1569.6 | 1552.0 | 1548.7 |
| 60° | 10189.6 | 3710.0 | 1644.4 | 1712.6 | 1687.3 | 1434.3 | 1489.3 | 1530.0 | 1533.3 | 1530.0 | 1527.8 |
| 62.5° | 10597.6 | 3590.1 | 1589.4 | 1697.2 | 1629.0 | 1382.6 | 1433.2 | 1492.6 | 1493.7 | 1500.3 | 1499.2 |
| 65° | 10251.2 | 3231.5 | 1487.1 | 1643.3 | 1531.1 | 1339.7 | 1384.8 | 1449.7 | 1433.2 | 1462.9 | 1462.9 |
| 66° | 9914.6 | 3024.8 | 1436.5 | 1608.1 | 1489.3 | 1323.2 | 1369.4 | 1427.7 | 1406.8 | 1447.5 | 1447.5 |
| 67.5° | 9227.1 | 2676.1 | 1345.2 | 1533.3 | 1429.9 | 1300.1 | 1351.8 | 1391.4 | 1362.8 | 1423.3 | 1418.9 |
| 70° | 7971.1 | 2070.0 | 1161.5 | 1363.9 | 1332.0 | 1266.0 | 1327.6 | 1318.8 | 1277.0 | 1369.4 | 1351.8 |
| 72.5° | 6720.5 | 1572.9 | 932.7 | 1141.7 | 1183.5 | 1223.1 | 1293.5 | 1226.4 | 1173.6 | 1238.5 | 1200.0 |
| 75° | 5214.7 | 1182.4 | 736.9 | 887.6 | 999.8 | 1156.0 | 1252.8 | 1119.7 | 1043.8 | 1037.2 | 1016.3 |
| 77.5° | 2819.1 | 811.7 | 584.1 | 677.5 | 794.1 | 1072.4 | 1225.3 | 1005.3 | 890.9 | 864.5 | 848.0 |
| 80° | 1116.4 | 528.0 | 424.6 | 513.7 | 555.5 | 951.4 | 1159.3 | 872.2 | 734.7 | 708.3 | 683.0 |
| 82.5° | 460.9 | 312.4 | 273.9 | 344.3 | 361.9 | 813.9 | 1040.5 | 714.9 | 567.6 | 785.3 | 833.7 |
| 85° | 198.0 | 171.6 | 162.8 | 178.2 | 204.6 | 570.9 | 828.2 | 545.6 | 612.7 | 546.7 | 434.5 |
| 87.5° | 59.4 | 72.6 | 69.3 | 68.2 | 74.8 | 136.4 | 441.1 | 303.6 | 449.9 | 170.5 | 127.6 |
| 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)