

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: P532973

Luminaire Tested: **GLAN-SA8B-760-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532973
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-SA8B-760-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 800mA 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: 30389 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

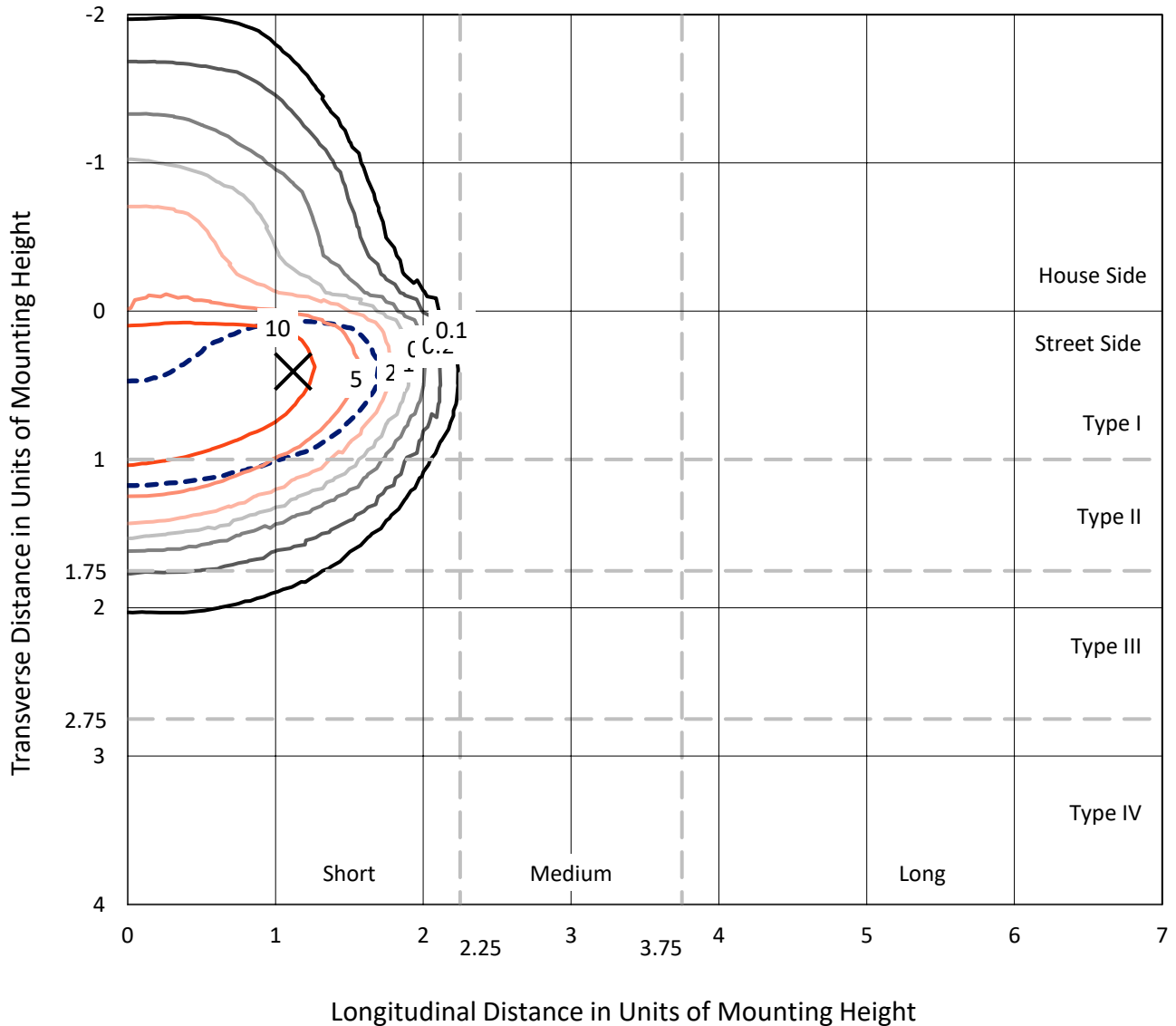
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

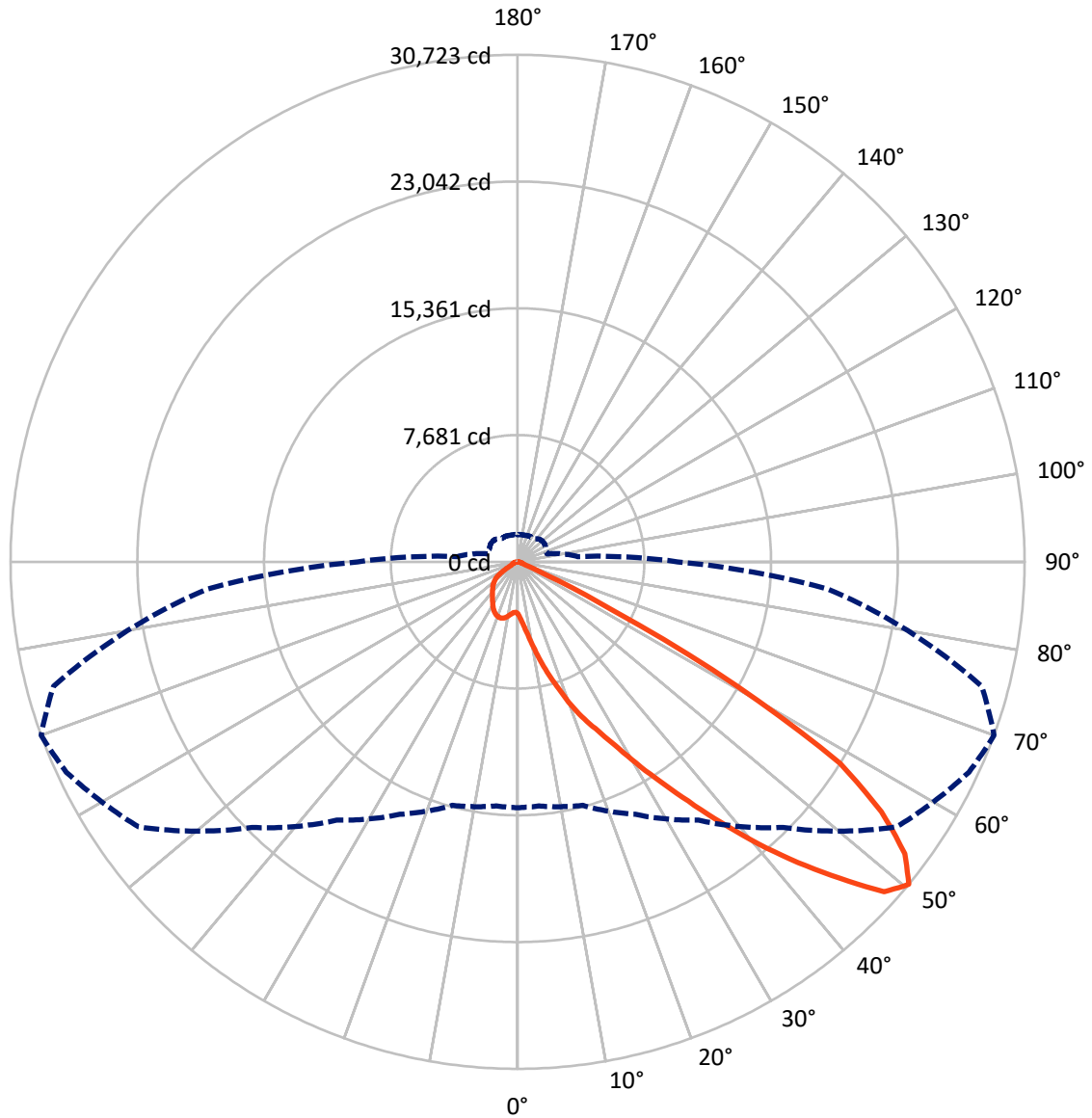
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 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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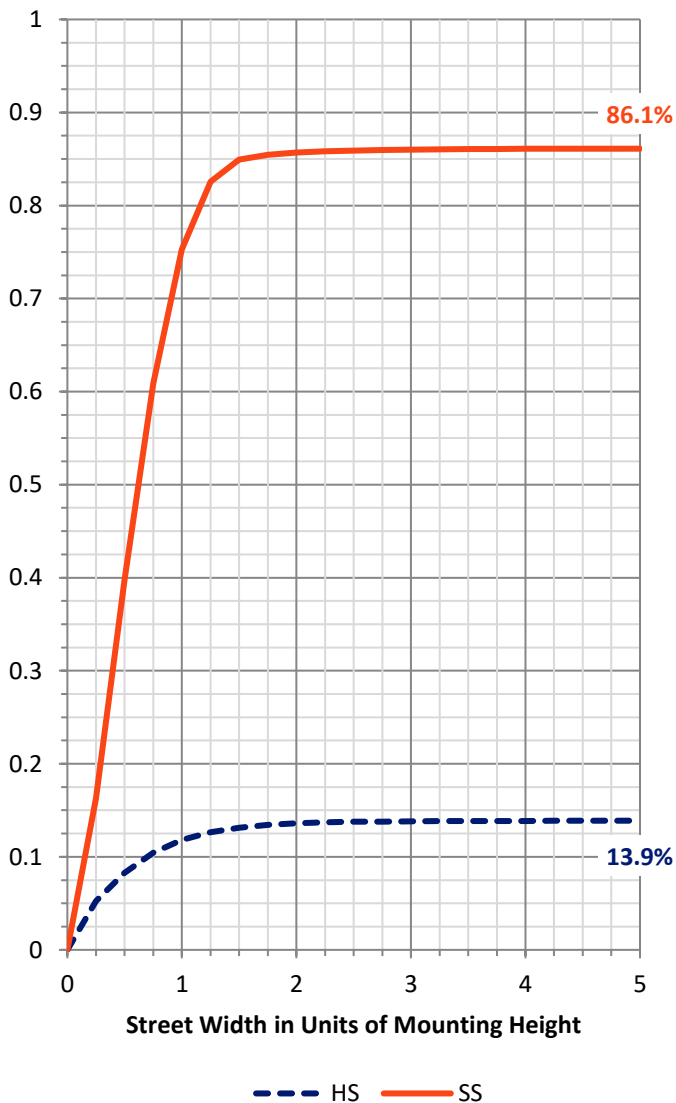
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4244.0 | 0.0 | 4244.0 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 26145.0 | 0.0 | 26145.0 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 30389.0 | 0.0 | 30389.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 409.3 | 1.3 |
| 10°-20° | 1770.6 | 5.8 |
| 20°-30° | 3714.3 | 12.2 |
| 30°-40° | 6402.3 | 21.1 |
| 40°-50° | 9356.8 | 30.8 |
| 50°-60° | 7287.4 | 24.0 |
| 60°-70° | 1234.7 | 4.1 |
| 70°-80° | 169.6 | 0.6 |
| 80°-90° | 43.9 | 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° | 30389.0 | 100.0 |
| 0°-180° | 30389.0 | 100.0 |

Coefficient of Utilization



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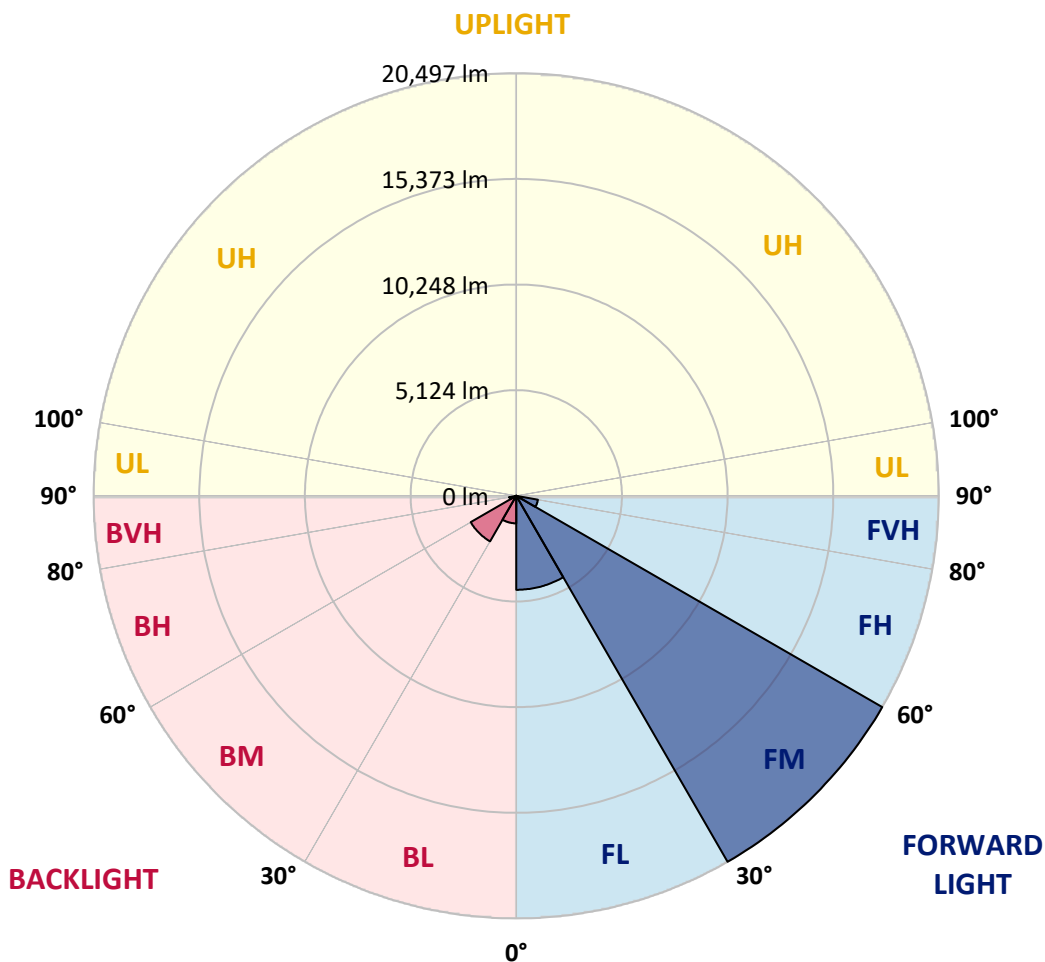
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4558.7 | 15.0 | | | |
| FM (30°-60°) | 20496.9 | 67.4 | | | |
| FH (60°-80°) | 1069.1 | 3.5 | | | G1/1800 |
| FVH (80°-90°) | 20.3 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1335.5 | 4.4 | B3/2500 | | |
| BM (30°-60°) | 2549.7 | 8.4 | B3/5000 | | |
| BH (60°-80°) | 335.2 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 23.6 | 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 I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3147.7 | 3147.7 | 3147.7 | 3147.7 | 3147.7 | 3147.7 | 3147.7 | 3147.7 | 3147.7 | 3147.7 | 3147.7 |
| 2.5° | 4122.0 | 4092.0 | 4027.1 | 3907.1 | 3857.2 | 3737.3 | 3667.3 | 3532.4 | 3447.5 | 3352.6 | 3247.6 |
| 5° | 5805.8 | 5650.9 | 5555.9 | 5421.0 | 5026.3 | 4781.5 | 4376.8 | 4032.1 | 3872.2 | 3697.3 | 3457.5 |
| 7.5° | 7544.5 | 7444.6 | 7314.7 | 7024.9 | 6755.1 | 6245.4 | 5550.9 | 4791.5 | 4466.7 | 4167.0 | 3692.3 |
| 10° | 8983.4 | 8703.6 | 8688.7 | 8473.8 | 8179.0 | 7569.5 | 6735.1 | 5790.8 | 5211.2 | 4771.5 | 4027.1 |
| 12.5° | 9987.7 | 9732.9 | 9847.8 | 9822.8 | 9548.0 | 8988.4 | 8024.1 | 6775.1 | 6170.5 | 5486.0 | 4371.8 |
| 15° | 10902.0 | 10797.1 | 10762.1 | 10732.2 | 10622.2 | 10207.5 | 9343.2 | 7974.2 | 7099.8 | 6275.4 | 4761.5 |
| 17.5° | 11796.4 | 11526.6 | 11656.5 | 11681.5 | 11671.5 | 11296.8 | 10487.3 | 9113.3 | 8084.1 | 7109.8 | 5171.2 |
| 20° | 12590.8 | 12615.8 | 12440.9 | 12405.9 | 12376.0 | 12361.0 | 11571.6 | 10242.5 | 9293.2 | 7984.2 | 5705.8 |
| 22.5° | 13610.1 | 13435.2 | 13590.1 | 13490.2 | 13295.3 | 13175.4 | 12570.8 | 11241.8 | 10342.4 | 9038.4 | 6250.4 |
| 25° | 14814.2 | 14954.1 | 14589.3 | 14549.4 | 14334.5 | 13919.8 | 13375.2 | 12361.0 | 11351.7 | 10017.7 | 6840.0 |
| 27.5° | 16298.1 | 16053.3 | 15958.3 | 15738.5 | 15348.8 | 15173.9 | 14534.4 | 13515.1 | 12570.8 | 11046.9 | 7409.6 |
| 30° | 17572.2 | 17507.2 | 17032.6 | 16772.8 | 16433.0 | 16428.0 | 15533.7 | 15079.0 | 14159.7 | 12660.8 | 8194.0 |
| 32.5° | 18611.4 | 18326.6 | 18151.7 | 17971.9 | 17697.1 | 17772.0 | 17017.6 | 16777.8 | 15853.4 | 14159.7 | 9118.3 |
| 35° | 19305.9 | 19101.1 | 18996.1 | 18721.3 | 18641.4 | 18976.1 | 18661.4 | 18561.4 | 17802.0 | 16268.1 | 10202.6 |
| 37.5° | 19525.7 | 19590.7 | 19570.7 | 19226.0 | 19395.8 | 20300.2 | 20704.9 | 20445.1 | 20045.4 | 18491.5 | 11376.7 |
| 40° | 19720.6 | 19765.6 | 19665.6 | 20070.3 | 20555.0 | 21584.2 | 23048.2 | 22618.5 | 22468.6 | 20744.9 | 13010.5 |
| 42.5° | 19830.5 | 19795.5 | 19795.5 | 20495.0 | 21229.5 | 23298.0 | 25311.5 | 25026.7 | 24911.8 | 23143.1 | 14899.1 |
| 45° | 19355.9 | 19016.1 | 19380.9 | 20330.2 | 21809.1 | 24142.4 | 27120.2 | 27514.9 | 27350.0 | 25996.0 | 17107.5 |
| 47.5° | 17582.2 | 17792.0 | 17996.9 | 19265.9 | 21104.6 | 23882.6 | 28229.4 | 29573.4 | 29878.2 | 28394.3 | 18556.5 |
| 50° | 14899.1 | 14854.2 | 15278.8 | 16877.7 | 19111.0 | 22763.4 | 28014.5 | 30168.0 | 30722.6 | 29113.7 | 18861.2 |
| 52.5° | 10837.1 | 11166.8 | 11626.5 | 13215.4 | 15863.4 | 19865.5 | 25241.6 | 28634.1 | 29373.6 | 28229.4 | 18661.4 |
| 55° | 6310.4 | 5945.7 | 6979.9 | 8323.9 | 10822.1 | 14984.1 | 21339.4 | 25381.5 | 26750.5 | 26620.6 | 17652.1 |
| 57.5° | 2528.2 | 2448.2 | 2803.0 | 3777.2 | 5645.9 | 9288.2 | 15518.7 | 20854.8 | 23048.2 | 24382.2 | 15513.7 |
| 60° | 1109.2 | 1084.2 | 1274.1 | 1538.9 | 2308.3 | 4281.9 | 8488.8 | 12970.5 | 15258.9 | 17037.6 | 10677.2 |
| 62.5° | 799.4 | 789.4 | 884.4 | 979.3 | 1219.1 | 1863.6 | 3567.4 | 5226.2 | 6515.2 | 7869.3 | 4781.5 |
| 65° | 644.5 | 669.5 | 734.5 | 784.4 | 899.3 | 1034.2 | 1259.1 | 1453.9 | 1783.7 | 1848.7 | 1054.2 |
| 67.5° | 524.6 | 544.6 | 604.6 | 659.5 | 679.5 | 559.6 | 579.6 | 509.6 | 509.6 | 454.7 | 364.7 |
| 70° | 384.7 | 389.7 | 459.7 | 524.6 | 419.7 | 224.8 | 394.7 | 394.7 | 354.7 | 339.8 | 309.8 |
| 72.5° | 284.8 | 289.8 | 344.7 | 324.8 | 164.9 | 139.9 | 289.8 | 319.8 | 289.8 | 274.8 | 249.8 |
| 75° | 209.8 | 214.8 | 179.9 | 74.9 | 69.9 | 89.9 | 169.9 | 219.8 | 209.8 | 204.9 | 189.9 |
| 77.5° | 40.0 | 30.0 | 25.0 | 35.0 | 50.0 | 74.9 | 109.9 | 134.9 | 139.9 | 149.9 | 139.9 |
| 80° | 5.0 | 5.0 | 15.0 | 30.0 | 55.0 | 79.9 | 114.9 | 129.9 | 134.9 | 139.9 | 129.9 |
| 82.5° | 0.0 | 5.0 | 15.0 | 30.0 | 55.0 | 74.9 | 99.9 | 114.9 | 124.9 | 129.9 | 124.9 |
| 85° | 0.0 | 5.0 | 10.0 | 25.0 | 45.0 | 55.0 | 50.0 | 35.0 | 30.0 | 35.0 | 25.0 |
| 87.5° | 0.0 | 0.0 | 5.0 | 5.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| 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° | 3147.7 | 3147.7 | 3147.7 | 3147.7 | 3147.7 | 3147.7 | 3147.7 | 3147.7 | 3147.7 | 3147.7 | 3147.7 |
| 2.5° | 3187.7 | 3167.7 | 3097.7 | 3022.8 | 2957.8 | 2987.8 | 2957.8 | 2932.9 | 2942.9 | 2932.9 | 2922.9 |
| 5° | 3362.5 | 3272.6 | 3122.7 | 3057.8 | 3002.8 | 2997.8 | 2982.8 | 2977.8 | 2982.8 | 2982.8 | 2937.9 |
| 7.5° | 3527.4 | 3382.5 | 3222.6 | 3152.7 | 3087.7 | 3092.7 | 3057.8 | 3057.8 | 3052.8 | 3027.8 | 3017.8 |
| 10° | 3777.2 | 3582.4 | 3377.5 | 3252.6 | 3172.7 | 3157.7 | 3122.7 | 3087.7 | 3087.7 | 3087.7 | 3037.8 |
| 12.5° | 4052.0 | 3807.2 | 3527.4 | 3382.5 | 3287.6 | 3212.7 | 3157.7 | 3147.7 | 3092.7 | 3082.7 | 3057.8 |
| 15° | 4291.9 | 3982.1 | 3627.4 | 3427.5 | 3307.6 | 3207.7 | 3122.7 | 3067.8 | 3042.8 | 3027.8 | 3007.8 |
| 17.5° | 4526.7 | 4132.0 | 3682.3 | 3427.5 | 3297.6 | 3182.7 | 3092.7 | 3042.8 | 2982.8 | 2992.8 | 2952.8 |
| 20° | 4841.5 | 4291.9 | 3697.3 | 3362.5 | 3202.7 | 3092.7 | 2972.8 | 2947.8 | 2912.9 | 2882.9 | 2892.9 |
| 22.5° | 5146.2 | 4406.8 | 3652.3 | 3282.6 | 3052.8 | 2922.9 | 2862.9 | 2832.9 | 2817.9 | 2793.0 | 2758.0 |
| 25° | 5421.0 | 4531.7 | 3582.4 | 3137.7 | 2892.9 | 2798.0 | 2743.0 | 2738.0 | 2703.0 | 2703.0 | 2638.1 |
| 27.5° | 5700.8 | 4576.7 | 3462.5 | 2967.8 | 2753.0 | 2698.0 | 2673.0 | 2663.1 | 2648.1 | 2613.1 | 2568.1 |
| 30° | 6020.6 | 4591.6 | 3287.6 | 2793.0 | 2628.1 | 2568.1 | 2603.1 | 2628.1 | 2563.1 | 2498.2 | 2518.2 |
| 32.5° | 6285.4 | 4556.7 | 3077.8 | 2628.1 | 2538.1 | 2508.2 | 2578.1 | 2603.1 | 2528.2 | 2458.2 | 2423.2 |
| 35° | 6605.2 | 4471.7 | 2872.9 | 2498.2 | 2448.2 | 2508.2 | 2568.1 | 2568.1 | 2418.2 | 2333.3 | 2313.3 |
| 37.5° | 7089.8 | 4376.8 | 2683.0 | 2388.3 | 2353.3 | 2478.2 | 2558.1 | 2503.2 | 2268.3 | 2163.4 | 2138.4 |
| 40° | 7609.4 | 4316.8 | 2498.2 | 2278.3 | 2303.3 | 2428.2 | 2473.2 | 2303.3 | 2063.5 | 1998.5 | 1978.6 |
| 42.5° | 8363.9 | 4196.9 | 2333.3 | 2183.4 | 2258.4 | 2358.3 | 2358.3 | 2053.5 | 1963.6 | 1928.6 | 1923.6 |
| 45° | 9303.2 | 4112.0 | 2188.4 | 2103.5 | 2193.4 | 2218.4 | 2138.4 | 1923.6 | 1858.6 | 1848.7 | 1853.6 |
| 47.5° | 9762.9 | 3947.1 | 2038.5 | 2008.5 | 2073.5 | 2078.5 | 1868.6 | 1818.7 | 1763.7 | 1748.7 | 1738.7 |
| 50° | 9692.9 | 3652.3 | 1843.7 | 1883.6 | 1973.6 | 1923.6 | 1703.8 | 1713.7 | 1663.8 | 1658.8 | 1633.8 |
| 52.5° | 9203.3 | 3187.7 | 1648.8 | 1743.7 | 1843.7 | 1698.8 | 1568.9 | 1558.9 | 1558.9 | 1493.9 | 1468.9 |
| 55° | 8159.0 | 2568.1 | 1414.0 | 1533.9 | 1653.8 | 1429.0 | 1394.0 | 1384.0 | 1359.0 | 1299.1 | 1284.1 |
| 57.5° | 6460.3 | 1883.6 | 1064.2 | 1194.1 | 1404.0 | 1214.1 | 1209.1 | 1164.2 | 1099.2 | 1054.2 | 1054.2 |
| 60° | 3842.2 | 1084.2 | 669.5 | 729.5 | 929.3 | 984.3 | 1094.2 | 1074.2 | 964.3 | 894.3 | 874.4 |
| 62.5° | 1753.7 | 559.6 | 424.7 | 434.7 | 499.6 | 639.5 | 859.4 | 994.3 | 839.4 | 719.5 | 709.5 |
| 65° | 589.6 | 414.7 | 349.7 | 334.8 | 344.7 | 384.7 | 514.6 | 704.5 | 669.5 | 554.6 | 534.6 |
| 67.5° | 359.7 | 369.7 | 329.8 | 304.8 | 304.8 | 299.8 | 294.8 | 319.8 | 394.7 | 384.7 | 389.7 |
| 70° | 309.8 | 339.8 | 304.8 | 274.8 | 264.8 | 249.8 | 209.8 | 174.9 | 149.9 | 174.9 | 184.9 |
| 72.5° | 249.8 | 269.8 | 259.8 | 234.8 | 209.8 | 189.9 | 149.9 | 114.9 | 84.9 | 74.9 | 74.9 |
| 75° | 184.9 | 199.9 | 209.8 | 179.9 | 159.9 | 134.9 | 109.9 | 74.9 | 45.0 | 30.0 | 30.0 |
| 77.5° | 134.9 | 149.9 | 154.9 | 139.9 | 119.9 | 94.9 | 69.9 | 50.0 | 25.0 | 10.0 | 10.0 |
| 80° | 114.9 | 134.9 | 149.9 | 139.9 | 124.9 | 89.9 | 65.0 | 35.0 | 20.0 | 5.0 | 5.0 |
| 82.5° | 109.9 | 134.9 | 149.9 | 134.9 | 119.9 | 84.9 | 65.0 | 40.0 | 15.0 | 5.0 | 5.0 |
| 85° | 25.0 | 35.0 | 45.0 | 55.0 | 65.0 | 65.0 | 50.0 | 30.0 | 15.0 | 5.0 | 5.0 |
| 87.5° | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 5.0 | 5.0 | 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)