

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: P267318

Luminaire Tested: **GAN-AF-10-LED-U-SL3-7027-1200-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P267318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-SL3-7027-1200-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47970.9 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 640
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: 28.75 FT

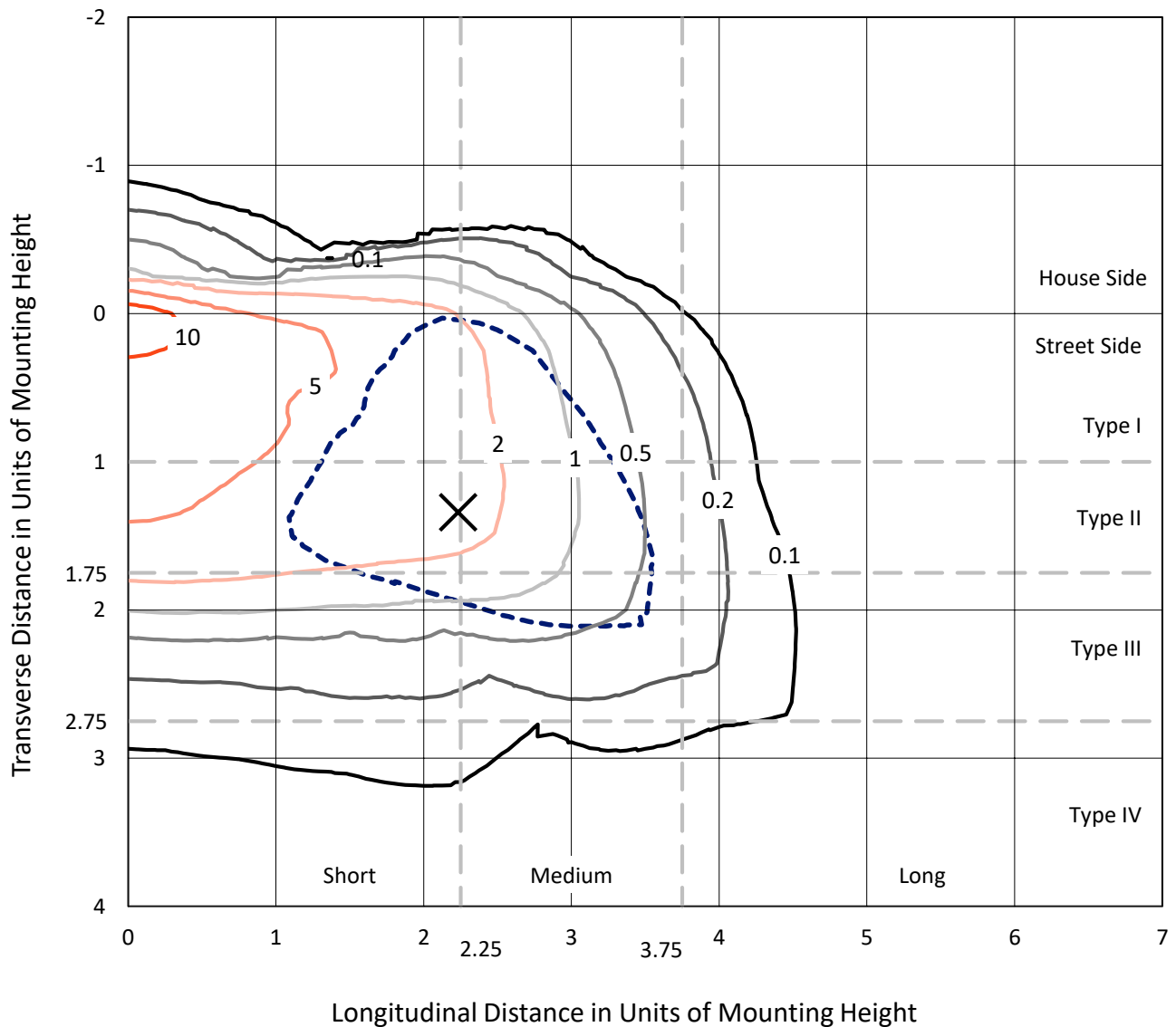


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

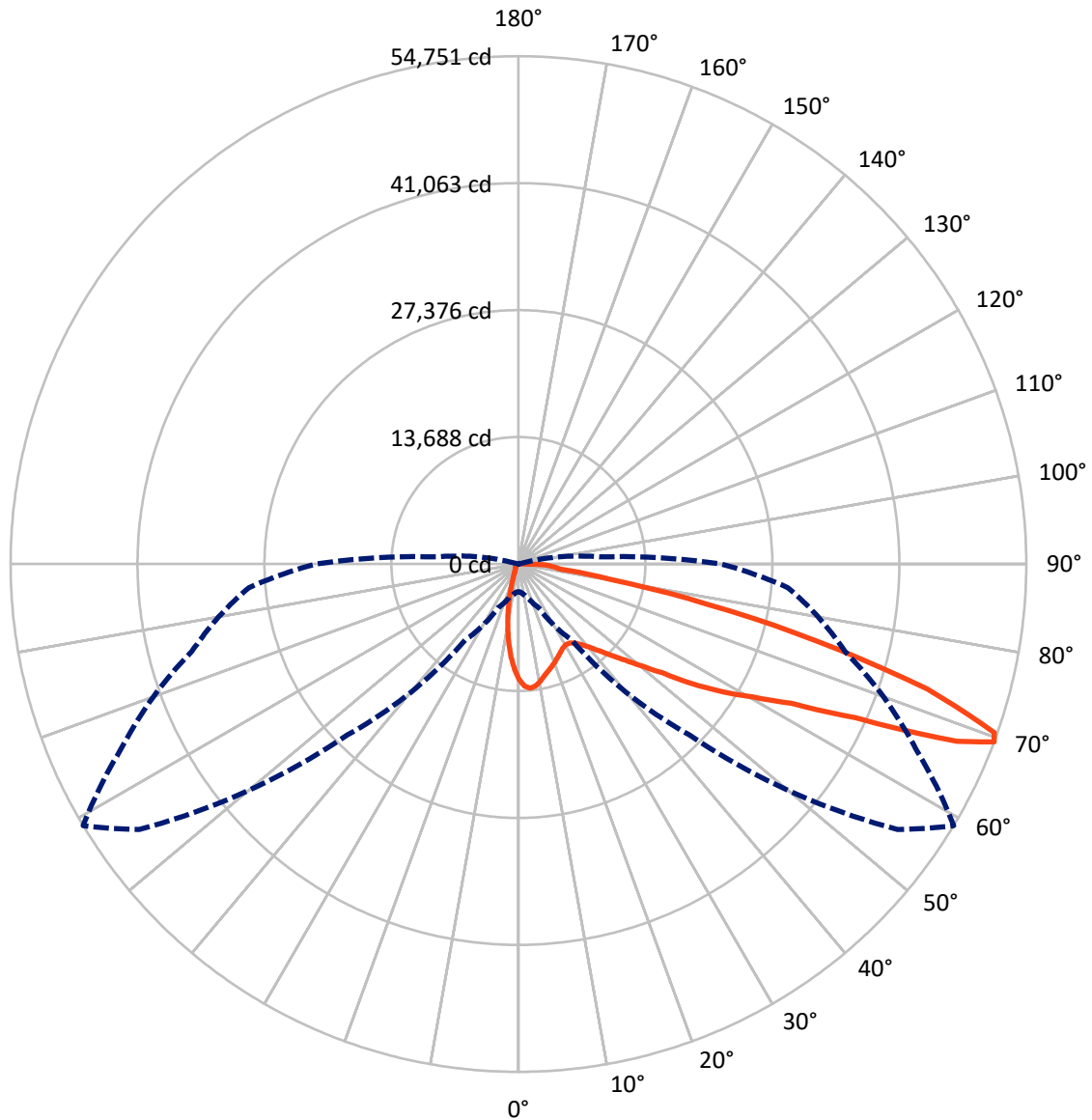


Based on 30 foot mounting height. Maximum calculated value = 13.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3906.6 | 0.0 | 3906.6 |
| | % Fixture | 8.1 | 0.0 | 8.1 |
| Street Side | Lumens | 44064.3 | 0.0 | 44064.3 |
| | % Fixture | 91.9 | 0.0 | 91.9 |
| Total | Lumens | 47970.9 | 0.0 | 47970.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1013.5 | 2.1 |
| 10°-20° | 2094.2 | 4.4 |
| 20°-30° | 2818.0 | 5.9 |
| 30°-40° | 4091.5 | 8.5 |
| 40°-50° | 6812.7 | 14.2 |
| 50°-60° | 10627.7 | 22.2 |
| 60°-70° | 13151.0 | 27.4 |
| 70°-80° | 6664.8 | 13.9 |
| 80°-90° | 697.4 | 1.5 |
| 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° | 47970.9 | 100.0 |
| 0°-180° | 47970.9 | 100.0 |

Coefficient of Utilization



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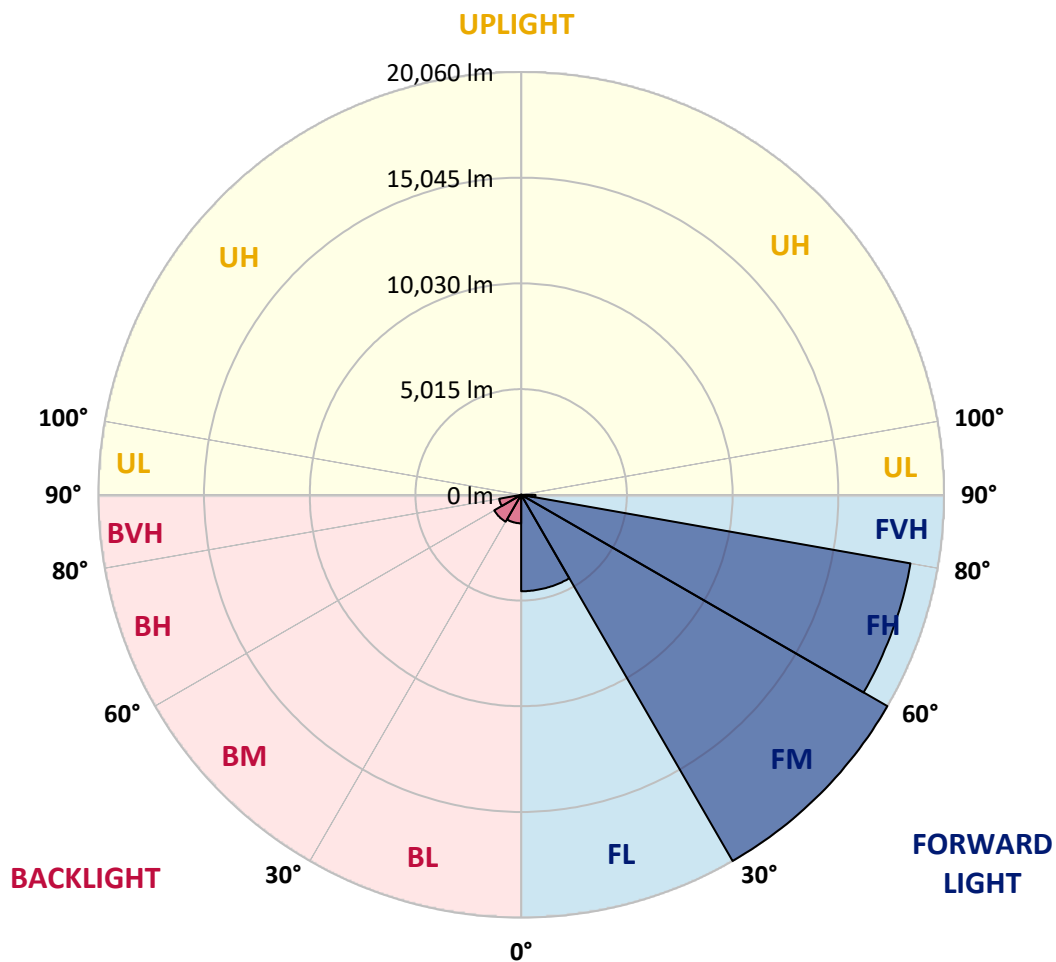
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4573.5 | 9.5 | | | |
| FM (30°-60°) | 20060.0 | 41.8 | | | |
| FH (60°-80°) | 18754.9 | 39.1 | | | G5 |
| FVH (80°-90°) | 675.9 | 1.4 | | | G4/750 |
| BL (0°-30°) | 1352.2 | 2.8 | B3/2500 | | |
| BM (30°-60°) | 1472.0 | 3.1 | B2/2500 | | |
| BH (60°-80°) | 1060.9 | 2.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 21.5 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12486.1 | 12486.1 | 12486.1 | 12486.1 | 12486.1 | 12486.1 | 12486.1 | 12486.1 | 12486.1 | 12486.1 | 12486.1 |
| 2.5° | 13685.0 | 13679.7 | 13620.0 | 13593.0 | 13544.0 | 13441.0 | 13280.9 | 13196.9 | 13061.3 | 12825.2 | 12507.9 |
| 5° | 13560.4 | 13625.4 | 13660.7 | 13663.4 | 13698.8 | 13660.7 | 13516.9 | 13446.4 | 13259.3 | 12879.4 | 12309.8 |
| 7.5° | 12714.0 | 12738.4 | 12838.8 | 12925.6 | 13093.8 | 13253.9 | 13305.3 | 13275.5 | 13164.3 | 12757.4 | 12000.5 |
| 10° | 11808.0 | 11832.5 | 11951.8 | 12065.8 | 12293.6 | 12540.3 | 12800.8 | 12855.0 | 12901.2 | 12583.7 | 11702.2 |
| 12.5° | 11026.8 | 11051.2 | 11173.3 | 11322.4 | 11588.2 | 11892.1 | 12296.3 | 12385.8 | 12589.2 | 12418.3 | 11463.5 |
| 15° | 10354.0 | 10365.0 | 10484.3 | 10668.7 | 10986.1 | 11376.8 | 11835.1 | 11978.9 | 12290.9 | 12301.7 | 11254.7 |
| 17.5° | 9781.6 | 9808.9 | 9882.1 | 10058.4 | 10405.5 | 10888.4 | 11422.8 | 11629.0 | 11995.2 | 12204.1 | 11051.2 |
| 20° | 9431.8 | 9459.0 | 9456.2 | 9553.8 | 9865.7 | 10381.2 | 11010.4 | 11257.3 | 11702.2 | 12103.8 | 10869.4 |
| 22.5° | 9363.9 | 9363.9 | 9293.4 | 9279.9 | 9464.4 | 9895.5 | 10581.9 | 10883.0 | 11439.0 | 12060.3 | 10741.9 |
| 25° | 9605.3 | 9594.4 | 9418.2 | 9274.5 | 9282.5 | 9540.3 | 10166.8 | 10524.9 | 11216.6 | 12090.1 | 10674.1 |
| 27.5° | 10115.4 | 10101.8 | 9879.3 | 9605.3 | 9385.6 | 9382.9 | 9852.3 | 10237.4 | 11040.3 | 12231.2 | 10701.2 |
| 30° | 10820.7 | 10815.1 | 10573.8 | 10229.3 | 9830.5 | 9464.4 | 9743.7 | 10093.6 | 10926.4 | 12486.1 | 10763.6 |
| 32.5° | 11591.0 | 11582.8 | 11401.1 | 11037.7 | 10533.0 | 9830.5 | 9857.6 | 10150.6 | 10959.0 | 12825.2 | 10915.6 |
| 35° | 12407.5 | 12393.9 | 12315.3 | 11997.9 | 11441.8 | 10505.9 | 10232.0 | 10459.9 | 11165.2 | 13332.6 | 11213.9 |
| 37.5° | 13291.9 | 13305.3 | 13362.4 | 13058.5 | 12475.3 | 11452.6 | 10858.6 | 11013.2 | 11580.1 | 14021.6 | 11699.4 |
| 40° | 14596.6 | 14593.9 | 14612.9 | 14214.2 | 13652.6 | 12610.9 | 11734.7 | 11783.5 | 12274.6 | 14935.7 | 12437.4 |
| 42.5° | 16964.8 | 16799.3 | 16297.4 | 15483.5 | 14919.4 | 13934.7 | 12838.8 | 12787.3 | 13123.6 | 16066.8 | 13470.9 |
| 45° | 20146.6 | 19794.0 | 18491.9 | 16932.2 | 16210.5 | 15426.7 | 14197.8 | 14032.3 | 14246.6 | 17425.9 | 14745.8 |
| 47.5° | 22883.7 | 22517.5 | 20675.5 | 18440.3 | 17580.5 | 16842.6 | 15790.0 | 15491.7 | 15562.2 | 18947.6 | 16362.4 |
| 50° | 23814.1 | 23634.9 | 22026.4 | 19753.3 | 18906.8 | 18624.7 | 17637.4 | 17273.9 | 17173.5 | 20708.1 | 18236.9 |
| 52.5° | 23491.2 | 23477.7 | 22406.2 | 20605.1 | 20122.2 | 20469.4 | 19962.1 | 19541.6 | 19172.7 | 22563.4 | 20143.9 |
| 55° | 22973.2 | 23040.9 | 22560.8 | 21350.9 | 21334.7 | 22153.9 | 23141.2 | 22791.3 | 21722.6 | 24579.0 | 21787.8 |
| 57.5° | 21543.6 | 21833.8 | 22473.9 | 22761.6 | 23428.9 | 24267.1 | 25788.8 | 25995.0 | 24730.9 | 26122.4 | 23152.1 |
| 60° | 17480.1 | 18117.6 | 20211.7 | 22965.0 | 26127.9 | 28216.7 | 28984.3 | 29160.6 | 27199.4 | 27405.5 | 24994.0 |
| 62.5° | 12407.5 | 13058.5 | 15714.2 | 20371.8 | 26168.5 | 33405.8 | 33744.9 | 33053.1 | 29917.4 | 29307.1 | 28170.5 |
| 65° | 6586.3 | 7088.0 | 9258.1 | 14705.1 | 22688.3 | 34610.3 | 42070.0 | 40008.4 | 34713.4 | 33047.7 | 32274.7 |
| 67.5° | 3369.1 | 3520.9 | 4383.5 | 7196.5 | 15597.5 | 30742.1 | 49532.4 | 50983.6 | 42978.7 | 36758.6 | 32076.7 |
| 69° | 2981.1 | 3070.6 | 3643.0 | 5202.9 | 9987.9 | 26038.5 | 49895.7 | 54751.3 | 47305.3 | 36449.4 | 29149.7 |
| 70° | 2886.3 | 2964.9 | 3485.8 | 4709.1 | 7806.9 | 21836.4 | 48504.3 | 54420.4 | 48411.9 | 35272.0 | 26963.3 |
| 72.5° | 2449.5 | 2517.3 | 3103.3 | 4161.2 | 6344.8 | 10839.6 | 39400.6 | 46114.4 | 43442.6 | 29383.0 | 19517.3 |
| 75° | 1638.4 | 1860.8 | 2978.4 | 3900.7 | 5902.7 | 6157.6 | 25976.0 | 33324.5 | 30956.3 | 19818.3 | 10166.8 |
| 77.5° | 393.4 | 423.2 | 841.0 | 3103.3 | 5398.2 | 5419.8 | 13359.7 | 20716.3 | 16896.8 | 7063.6 | 2403.3 |
| 80° | 211.6 | 203.5 | 236.1 | 615.8 | 5026.5 | 5086.2 | 6013.9 | 10055.6 | 6032.8 | 1171.8 | 792.0 |
| 82.5° | 149.2 | 141.0 | 152.0 | 257.8 | 1581.5 | 4633.2 | 4351.0 | 4551.7 | 2501.1 | 450.3 | 355.4 |
| 85° | 54.3 | 51.6 | 84.1 | 233.3 | 496.5 | 2663.7 | 4470.3 | 3754.2 | 2026.3 | 206.2 | 260.4 |
| 87.5° | 19.0 | 16.3 | 32.6 | 127.5 | 152.0 | 1133.9 | 2758.8 | 2837.3 | 797.5 | 124.8 | 122.1 |
| 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° | 12486.1 | 12486.1 | 12486.1 | 12486.1 | 12486.1 | 12486.1 | 12486.1 | 12486.1 | 12486.1 | 12486.1 | 12486.1 |
| 2.5° | 12375.0 | 12206.8 | 11897.5 | 11580.1 | 11287.2 | 10934.6 | 10758.2 | 10584.5 | 10511.3 | 10484.3 | 10356.7 |
| 5° | 12016.8 | 11732.0 | 11075.7 | 10416.4 | 9808.9 | 9163.3 | 8737.4 | 8395.5 | 8194.8 | 8097.1 | 7942.5 |
| 7.5° | 11558.4 | 11091.9 | 10096.3 | 9079.1 | 8132.4 | 7199.2 | 6507.5 | 5975.9 | 5609.6 | 5433.4 | 5273.3 |
| 10° | 11113.7 | 10492.5 | 9076.5 | 7690.3 | 6404.5 | 5167.5 | 4212.7 | 3520.9 | 3078.9 | 2875.4 | 2745.2 |
| 12.5° | 10714.9 | 9909.2 | 8091.8 | 6336.6 | 4722.7 | 3274.1 | 2303.1 | 1752.4 | 1478.4 | 1383.4 | 1337.3 |
| 15° | 10359.4 | 9372.0 | 7161.3 | 5050.9 | 3198.1 | 1871.7 | 1258.6 | 1071.5 | 1028.1 | 1028.1 | 1022.7 |
| 17.5° | 10023.1 | 8845.8 | 6263.4 | 3843.8 | 2007.4 | 1144.7 | 957.6 | 933.1 | 933.1 | 943.9 | 943.9 |
| 20° | 9700.3 | 8343.9 | 5395.4 | 2758.8 | 1264.0 | 908.7 | 865.3 | 859.9 | 865.3 | 878.9 | 878.9 |
| 22.5° | 9423.6 | 7888.2 | 4584.3 | 1893.4 | 938.5 | 819.3 | 797.5 | 789.4 | 792.0 | 800.2 | 805.6 |
| 25° | 9217.5 | 7503.2 | 3819.4 | 1283.0 | 808.4 | 746.0 | 721.6 | 708.0 | 697.2 | 697.2 | 702.6 |
| 27.5° | 9087.3 | 7177.5 | 3078.9 | 933.1 | 727.0 | 678.1 | 640.2 | 618.5 | 594.0 | 580.6 | 586.0 |
| 30° | 8992.4 | 6868.4 | 2384.5 | 762.2 | 651.0 | 602.3 | 553.4 | 518.1 | 482.8 | 466.6 | 472.0 |
| 32.5° | 8957.1 | 6618.8 | 1782.1 | 672.7 | 583.2 | 528.9 | 469.3 | 423.2 | 385.3 | 371.5 | 374.4 |
| 35° | 9052.0 | 6420.7 | 1304.8 | 607.7 | 528.9 | 461.1 | 393.4 | 341.7 | 311.9 | 303.7 | 306.5 |
| 37.5° | 9301.6 | 6314.9 | 976.5 | 553.4 | 480.1 | 404.1 | 328.2 | 279.5 | 260.4 | 260.4 | 263.2 |
| 40° | 9773.6 | 6312.3 | 784.0 | 515.4 | 436.8 | 349.9 | 271.3 | 236.1 | 225.1 | 230.5 | 233.3 |
| 42.5° | 10462.6 | 6455.9 | 683.6 | 480.1 | 398.8 | 298.3 | 225.1 | 200.7 | 198.0 | 203.5 | 206.2 |
| 45° | 11403.9 | 6719.1 | 629.4 | 450.3 | 358.1 | 249.5 | 189.9 | 173.6 | 173.6 | 181.7 | 184.4 |
| 47.5° | 12556.7 | 7104.3 | 583.2 | 420.4 | 317.5 | 208.9 | 162.8 | 152.0 | 154.6 | 162.8 | 165.5 |
| 50° | 13945.6 | 7589.9 | 537.0 | 387.9 | 287.5 | 173.6 | 141.0 | 132.9 | 135.6 | 146.5 | 149.2 |
| 52.5° | 15527.1 | 8243.7 | 499.1 | 358.1 | 249.5 | 143.8 | 119.4 | 113.9 | 119.4 | 130.3 | 132.9 |
| 55° | 16883.4 | 8829.6 | 453.0 | 333.6 | 200.7 | 119.4 | 97.6 | 97.6 | 103.0 | 116.6 | 119.4 |
| 57.5° | 18188.1 | 9442.7 | 412.3 | 287.5 | 157.4 | 95.0 | 81.3 | 84.1 | 92.3 | 105.8 | 108.5 |
| 60° | 20103.2 | 10481.6 | 363.5 | 241.5 | 119.4 | 75.9 | 67.8 | 70.5 | 81.3 | 95.0 | 97.6 |
| 62.5° | 23355.7 | 12063.0 | 314.6 | 200.7 | 92.3 | 59.6 | 54.3 | 59.6 | 73.2 | 89.6 | 92.3 |
| 65° | 26290.7 | 12705.8 | 257.8 | 168.3 | 70.5 | 46.2 | 46.2 | 54.3 | 70.5 | 86.7 | 89.6 |
| 67.5° | 24654.9 | 10695.8 | 200.7 | 132.9 | 54.3 | 35.3 | 38.0 | 51.6 | 67.8 | 86.7 | 89.6 |
| 69° | 21804.0 | 8745.4 | 170.9 | 105.8 | 46.2 | 32.6 | 35.3 | 51.6 | 67.8 | 84.1 | 86.7 |
| 70° | 19582.3 | 7383.7 | 152.0 | 89.6 | 40.8 | 32.6 | 35.3 | 48.8 | 67.8 | 84.1 | 86.7 |
| 72.5° | 13115.4 | 3987.5 | 122.1 | 65.0 | 38.0 | 29.9 | 29.9 | 48.8 | 65.0 | 81.3 | 84.1 |
| 75° | 5636.9 | 1101.3 | 97.6 | 46.2 | 32.6 | 27.0 | 27.0 | 46.2 | 62.4 | 78.7 | 84.1 |
| 77.5° | 1030.7 | 279.5 | 78.7 | 40.8 | 32.6 | 27.0 | 24.4 | 43.4 | 59.6 | 75.9 | 78.7 |
| 80° | 409.5 | 138.3 | 62.4 | 35.3 | 29.9 | 24.4 | 21.6 | 40.8 | 57.0 | 73.2 | 75.9 |
| 82.5° | 246.9 | 78.7 | 51.6 | 32.6 | 29.9 | 21.6 | 19.0 | 35.3 | 54.3 | 70.5 | 73.2 |
| 85° | 200.7 | 54.3 | 40.8 | 32.6 | 27.0 | 21.6 | 16.3 | 32.6 | 48.8 | 67.8 | 70.5 |
| 87.5° | 97.6 | 38.0 | 38.0 | 29.9 | 27.0 | 21.6 | 16.3 | 29.9 | 46.2 | 65.0 | 67.8 |
| 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)