

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: P459490

Luminaire Tested: **GLAN-SA9B-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9B-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48973 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

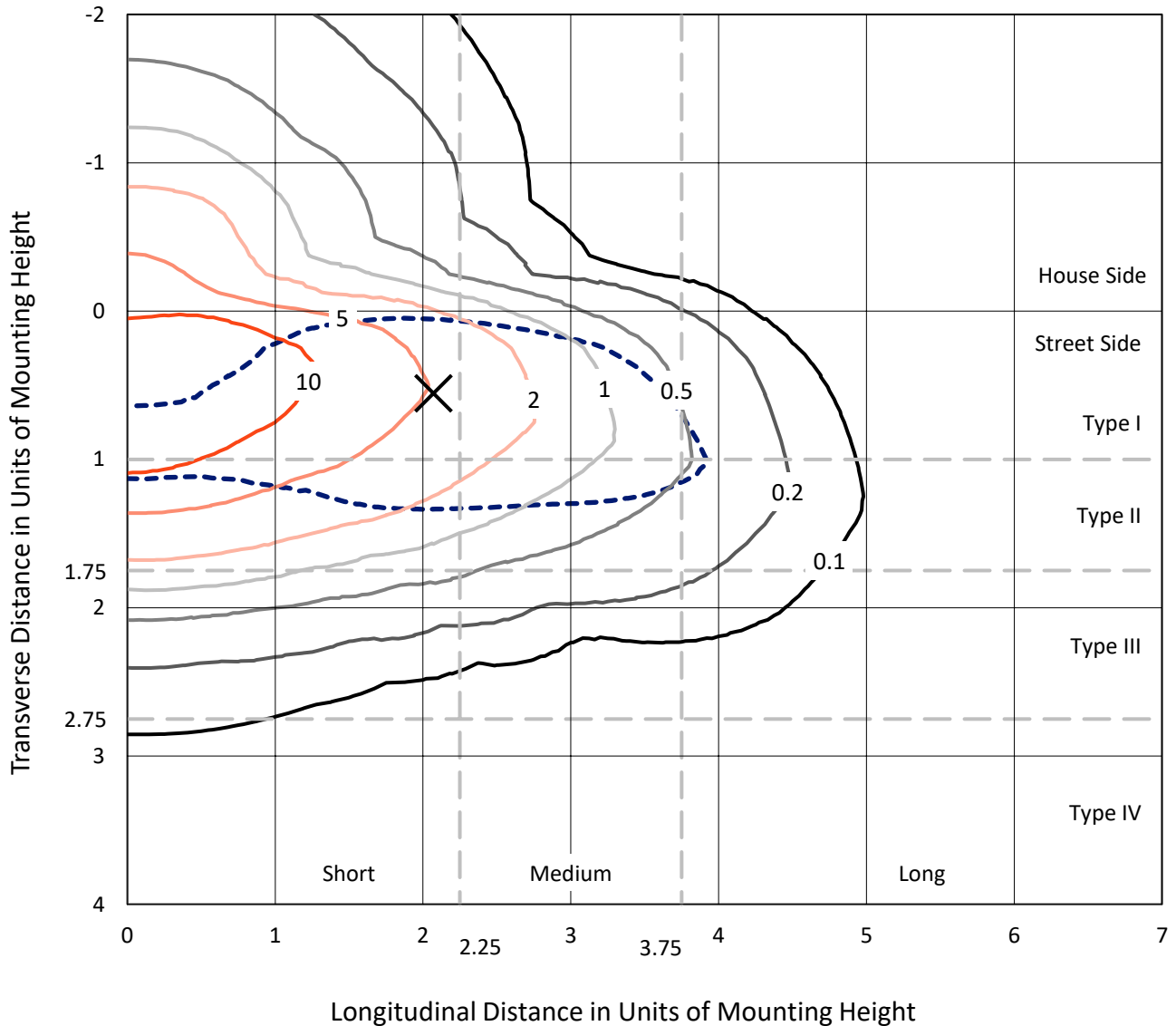
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

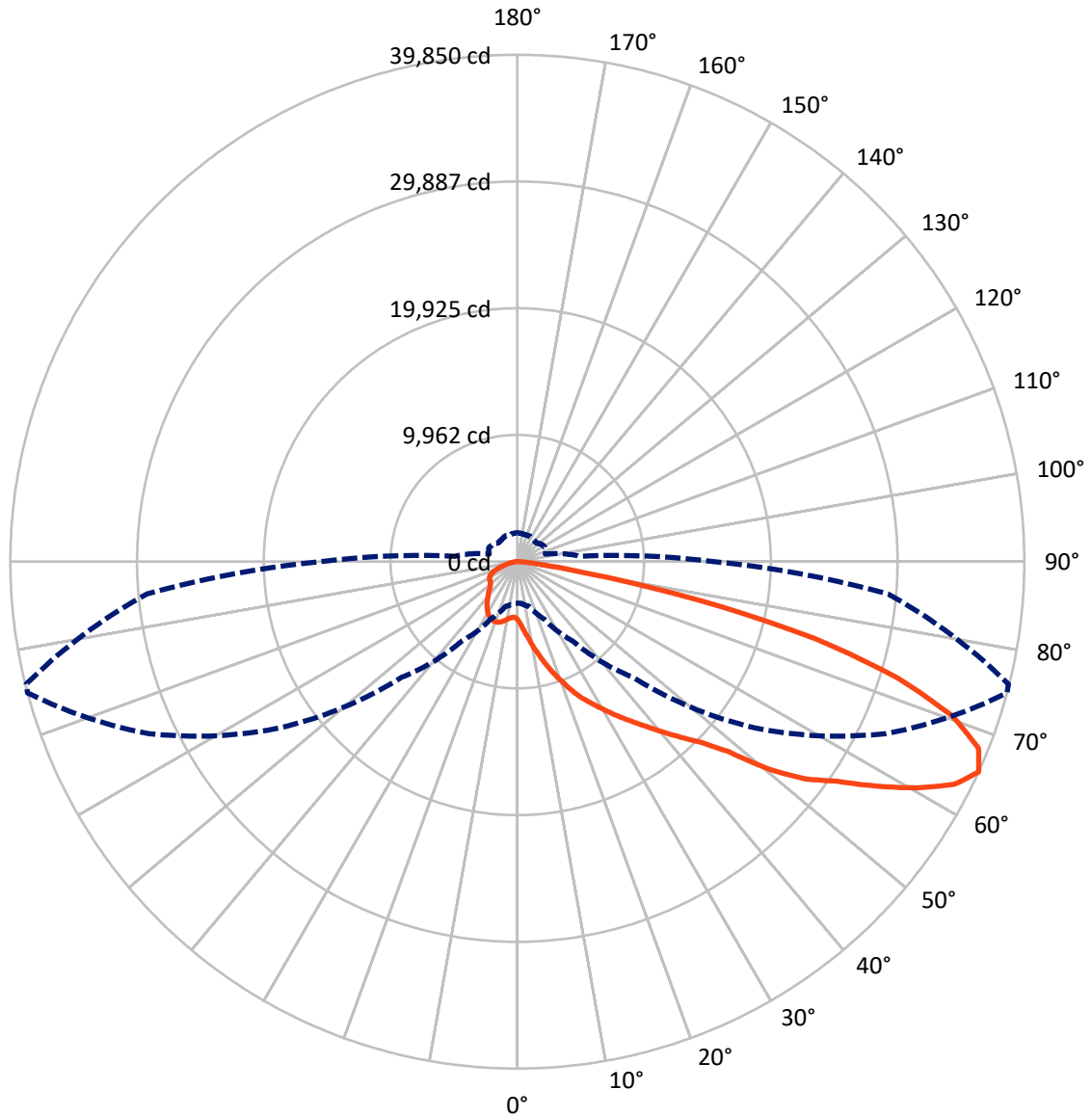
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8233.0 | 0.0 | 8233.0 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 40740.0 | 0.0 | 40740.0 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 48973.0 | 0.0 | 48973.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 552.8 | 1.1 |
| 10°-20° | 2165.4 | 4.4 |
| 20°-30° | 4182.8 | 8.5 |
| 30°-40° | 6794.1 | 13.9 |
| 40°-50° | 9345.9 | 19.1 |
| 50°-60° | 11034.4 | 22.5 |
| 60°-70° | 9667.9 | 19.7 |
| 70°-80° | 4615.5 | 9.4 |
| 80°-90° | 614.2 | 1.3 |
| 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° | 48973.0 | 100.0 |
| 0°-180° | 48973.0 | 100.0 |

Coefficient of Utilization



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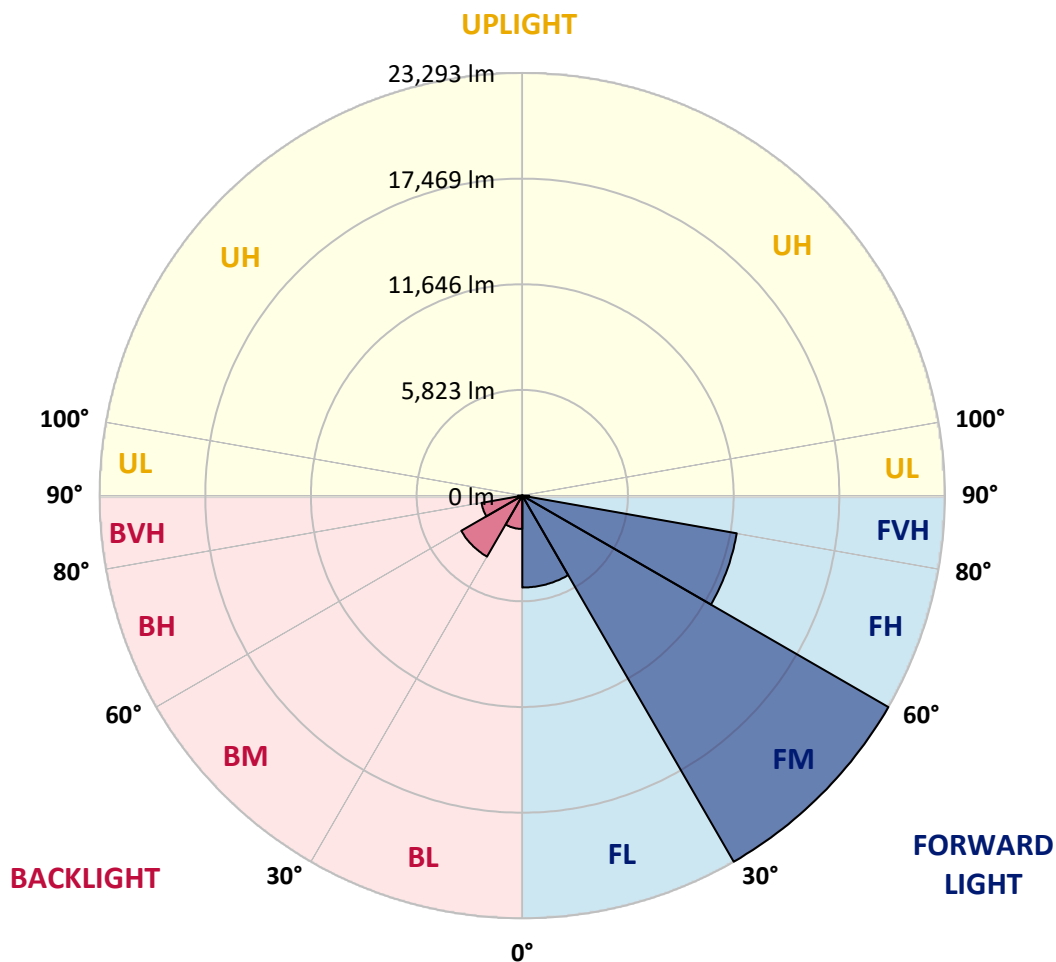
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 5063.0 | 10.3 | | | |
| FM | (30°-60°) | 23292.6 | 47.6 | | | |
| FH | (60°-80°) | 12000.6 | 24.5 | | | G5 |
| FVH | (80°-90°) | 383.8 | 0.8 | | | G3/500 |
| BL | (0°-30°) | 1838.0 | 3.8 | B3/2500 | | |
| BM | (30°-60°) | 3881.8 | 7.9 | B3/5000 | | |
| BH | (60°-80°) | 2282.9 | 4.7 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 230.3 | 0.5 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4550.2 | 4550.2 | 4550.2 | 4550.2 | 4550.2 | 4550.2 | 4550.2 | 4550.2 | 4550.2 | 4550.2 | 4550.2 |
| 2.5° | 6045.7 | 6005.9 | 5963.4 | 5846.5 | 5721.6 | 5580.8 | 5379.0 | 5185.1 | 4927.4 | 4919.4 | 4728.2 |
| 5° | 7721.8 | 7695.2 | 7506.7 | 7397.7 | 7108.2 | 6723.0 | 6396.3 | 5889.0 | 5418.8 | 5363.0 | 4991.2 |
| 7.5° | 9262.5 | 9158.9 | 9087.1 | 8890.6 | 8603.7 | 8109.6 | 7477.4 | 6792.1 | 6005.9 | 5931.5 | 5315.2 |
| 10° | 10423.2 | 10412.6 | 10375.4 | 10205.4 | 9990.3 | 9498.9 | 8797.6 | 7814.8 | 6749.6 | 6603.5 | 5708.3 |
| 12.5° | 11291.9 | 11299.8 | 11294.5 | 11291.9 | 11137.8 | 10720.8 | 9961.1 | 8925.1 | 7501.3 | 7397.7 | 6162.6 |
| 15° | 11863.0 | 11942.6 | 11974.5 | 12107.3 | 12120.6 | 11841.7 | 11188.3 | 9998.2 | 8348.7 | 8194.6 | 6651.3 |
| 17.5° | 12240.1 | 12280.0 | 12428.7 | 12654.5 | 12837.8 | 12787.3 | 12205.6 | 10991.7 | 9214.6 | 8957.0 | 7158.7 |
| 20° | 12601.4 | 12670.5 | 12784.7 | 13092.8 | 13416.9 | 13565.6 | 13156.6 | 12009.0 | 10072.6 | 9907.9 | 7719.2 |
| 22.5° | 13353.1 | 13451.4 | 13491.3 | 13648.0 | 13924.2 | 14187.2 | 14001.3 | 12983.9 | 11012.9 | 10789.8 | 8314.2 |
| 25° | 14625.5 | 14729.1 | 14617.5 | 14580.3 | 14670.6 | 14800.8 | 14761.0 | 13903.0 | 11900.1 | 11581.4 | 8877.3 |
| 27.5° | 16283.0 | 16296.3 | 16078.5 | 15871.3 | 15648.2 | 15581.7 | 15459.6 | 14718.5 | 12670.5 | 12404.8 | 9443.1 |
| 30° | 18062.7 | 17999.0 | 17637.7 | 17263.2 | 16886.0 | 16514.1 | 16163.5 | 15504.7 | 13528.4 | 13223.0 | 9998.2 |
| 32.5° | 19714.9 | 19680.4 | 19279.3 | 18697.6 | 18060.1 | 17709.4 | 17000.2 | 16298.9 | 14447.5 | 14152.7 | 10569.3 |
| 35° | 20952.7 | 21003.2 | 20562.3 | 19927.4 | 19231.5 | 18920.7 | 18025.5 | 17133.0 | 15398.5 | 15077.1 | 11190.9 |
| 37.5° | 21832.0 | 21805.4 | 21414.9 | 20865.1 | 20254.1 | 19983.2 | 19223.5 | 18044.1 | 16421.1 | 16113.0 | 11870.9 |
| 40° | 22145.4 | 22129.5 | 21839.9 | 21438.8 | 21051.0 | 20955.4 | 20477.3 | 19026.9 | 17592.6 | 17231.3 | 12689.1 |
| 42.5° | 21946.2 | 21980.7 | 21789.5 | 21680.6 | 21608.9 | 21677.9 | 21723.1 | 20315.2 | 18870.2 | 18538.2 | 13576.3 |
| 45° | 21335.3 | 21316.7 | 21290.1 | 21468.1 | 21871.8 | 22326.0 | 22955.6 | 21531.8 | 20259.5 | 19993.8 | 14766.3 |
| 47.5° | 20243.5 | 20376.3 | 20442.7 | 20934.2 | 21816.0 | 22891.8 | 24374.0 | 23162.8 | 22275.6 | 22044.5 | 16580.5 |
| 50° | 18716.2 | 18822.4 | 19215.5 | 20089.5 | 21404.3 | 23104.3 | 25760.6 | 25829.7 | 25638.4 | 25205.5 | 18551.5 |
| 52.5° | 16330.8 | 16495.5 | 17305.7 | 18907.4 | 20559.6 | 23016.7 | 26600.0 | 28116.7 | 28369.1 | 28045.0 | 20493.2 |
| 55° | 13661.3 | 13892.4 | 14747.7 | 16848.8 | 19396.2 | 22538.5 | 27179.1 | 29442.2 | 30449.0 | 30148.8 | 22363.2 |
| 57.5° | 11047.5 | 11291.9 | 12171.1 | 14205.8 | 17366.8 | 21481.3 | 27558.9 | 30919.1 | 33280.6 | 32890.1 | 24690.1 |
| 60° | 8279.6 | 8534.6 | 9289.0 | 11384.8 | 14476.7 | 19414.8 | 27301.3 | 32199.4 | 36109.5 | 35942.1 | 27019.7 |
| 62.5° | 5341.8 | 5623.3 | 6279.4 | 8014.0 | 11127.2 | 16591.1 | 25922.7 | 32906.0 | 38558.6 | 38356.7 | 28719.7 |
| 65° | 3253.9 | 3285.8 | 3647.1 | 4975.2 | 7615.6 | 12845.8 | 22769.6 | 31968.3 | 39849.5 | 39788.4 | 29237.7 |
| 67.5° | 2103.8 | 2154.2 | 2318.9 | 2980.3 | 4566.1 | 8922.4 | 18206.2 | 28873.8 | 39095.2 | 39073.9 | 28167.2 |
| 70° | 1777.1 | 1793.0 | 1867.4 | 2010.8 | 2653.6 | 5410.8 | 12784.7 | 23941.1 | 36229.0 | 36229.0 | 25593.3 |
| 72.5° | 1588.5 | 1609.7 | 1636.3 | 1681.4 | 1893.9 | 3065.3 | 7628.8 | 18636.5 | 31280.4 | 31487.6 | 21784.2 |
| 75° | 1442.4 | 1437.0 | 1453.0 | 1461.0 | 1615.0 | 2002.8 | 3944.6 | 13783.4 | 24198.7 | 23784.3 | 15775.7 |
| 77.5° | 1235.2 | 1243.1 | 1235.2 | 1269.7 | 1426.4 | 1524.7 | 2002.8 | 9249.2 | 14665.3 | 14128.8 | 7918.4 |
| 80° | 1014.7 | 1028.0 | 1041.3 | 1062.5 | 1219.2 | 1158.1 | 1203.3 | 4215.5 | 5424.1 | 5309.9 | 2446.4 |
| 82.5° | 762.4 | 780.9 | 802.2 | 852.7 | 958.9 | 765.0 | 759.7 | 1801.0 | 1957.7 | 1793.0 | 900.5 |
| 85° | 308.1 | 363.9 | 549.9 | 600.3 | 603.0 | 419.7 | 467.5 | 751.7 | 799.5 | 780.9 | 353.3 |
| 87.5° | 71.7 | 85.0 | 178.0 | 268.3 | 247.0 | 156.7 | 172.7 | 244.4 | 278.9 | 257.7 | 119.5 |
| 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° | 4550.2 | 4550.2 | 4550.2 | 4550.2 | 4550.2 | 4550.2 | 4550.2 | 4550.2 | 4550.2 | 4550.2 | 4550.2 |
| 2.5° | 4640.5 | 4547.6 | 4388.2 | 4266.0 | 4178.3 | 4101.3 | 4053.5 | 4024.3 | 4013.6 | 4011.0 | 4013.6 |
| 5° | 4797.2 | 4632.6 | 4380.2 | 4220.8 | 4133.2 | 4082.7 | 4053.5 | 4050.8 | 4053.5 | 4056.1 | 4048.2 |
| 7.5° | 5012.4 | 4776.0 | 4446.6 | 4297.9 | 4231.5 | 4194.3 | 4181.0 | 4175.7 | 4178.3 | 4175.7 | 4175.7 |
| 10° | 5299.3 | 4975.2 | 4576.8 | 4422.7 | 4366.9 | 4324.4 | 4303.2 | 4289.9 | 4279.3 | 4268.6 | 4263.3 |
| 12.5° | 5615.4 | 5195.7 | 4717.6 | 4568.8 | 4489.1 | 4422.7 | 4374.9 | 4340.4 | 4316.5 | 4292.6 | 4287.2 |
| 15° | 5968.7 | 5429.4 | 4874.3 | 4667.1 | 4552.9 | 4454.6 | 4372.2 | 4316.5 | 4274.0 | 4239.4 | 4236.8 |
| 17.5° | 6306.0 | 5649.9 | 4980.5 | 4712.2 | 4544.9 | 4406.8 | 4297.9 | 4220.8 | 4167.7 | 4122.5 | 4117.2 |
| 20° | 6667.3 | 5859.8 | 5028.3 | 4683.0 | 4465.2 | 4297.9 | 4154.4 | 4061.5 | 4000.4 | 3949.9 | 3941.9 |
| 22.5° | 7031.2 | 6037.7 | 5023.0 | 4590.1 | 4327.1 | 4130.5 | 3979.1 | 3880.8 | 3809.1 | 3758.6 | 3740.0 |
| 25° | 7379.2 | 6181.2 | 4956.6 | 4441.3 | 4135.8 | 3931.3 | 3777.2 | 3686.9 | 3623.2 | 3562.1 | 3562.1 |
| 27.5° | 7692.6 | 6266.2 | 4831.8 | 4260.7 | 3939.3 | 3724.1 | 3601.9 | 3519.6 | 3461.1 | 3421.3 | 3397.4 |
| 30° | 8000.7 | 6306.0 | 4661.8 | 4032.2 | 3732.1 | 3548.8 | 3450.5 | 3402.7 | 3349.6 | 3304.4 | 3299.1 |
| 32.5° | 8277.0 | 6298.0 | 4449.3 | 3809.1 | 3535.5 | 3405.4 | 3365.5 | 3328.3 | 3272.5 | 3208.8 | 3192.9 |
| 35° | 8545.3 | 6244.9 | 4196.9 | 3564.7 | 3370.8 | 3320.4 | 3331.0 | 3277.9 | 3176.9 | 3097.2 | 3083.9 |
| 37.5° | 8837.4 | 6149.3 | 3920.7 | 3365.5 | 3232.7 | 3280.5 | 3307.1 | 3190.2 | 3025.5 | 2900.7 | 2871.4 |
| 40° | 9174.8 | 6040.4 | 3633.8 | 3166.3 | 3123.8 | 3243.3 | 3243.3 | 3028.2 | 2802.4 | 2725.3 | 2704.1 |
| 42.5° | 9570.6 | 5950.1 | 3394.7 | 2998.9 | 3033.5 | 3153.0 | 3139.7 | 2813.0 | 2720.0 | 2680.2 | 2669.6 |
| 45° | 10197.5 | 5918.2 | 3147.7 | 2852.8 | 2959.1 | 3046.8 | 2937.8 | 2738.6 | 2685.5 | 2653.6 | 2643.0 |
| 47.5° | 11188.3 | 5955.4 | 2929.9 | 2743.9 | 2874.1 | 2940.5 | 2712.1 | 2688.2 | 2651.0 | 2605.8 | 2600.5 |
| 50° | 12107.3 | 5920.9 | 2775.8 | 2682.8 | 2799.7 | 2813.0 | 2619.1 | 2627.1 | 2605.8 | 2555.3 | 2544.7 |
| 52.5° | 12859.1 | 5811.9 | 2677.5 | 2651.0 | 2736.0 | 2589.9 | 2531.4 | 2560.7 | 2552.7 | 2488.9 | 2478.3 |
| 55° | 13685.2 | 5745.5 | 2629.7 | 2651.0 | 2693.5 | 2396.0 | 2449.1 | 2491.6 | 2481.0 | 2435.8 | 2433.2 |
| 57.5° | 14686.6 | 5758.8 | 2595.2 | 2658.9 | 2651.0 | 2297.7 | 2366.7 | 2417.2 | 2414.6 | 2401.3 | 2401.3 |
| 60° | 15711.9 | 5764.1 | 2542.1 | 2656.3 | 2600.5 | 2220.7 | 2281.7 | 2353.5 | 2358.8 | 2366.7 | 2366.7 |
| 62.5° | 16051.9 | 5533.0 | 2438.5 | 2608.5 | 2488.9 | 2146.3 | 2202.1 | 2300.3 | 2295.0 | 2316.3 | 2318.9 |
| 65° | 15417.1 | 4892.9 | 2284.4 | 2499.6 | 2345.5 | 2093.1 | 2141.0 | 2231.3 | 2202.1 | 2257.8 | 2268.5 |
| 67.5° | 14033.1 | 4048.2 | 2045.3 | 2303.0 | 2186.1 | 2037.4 | 2101.1 | 2135.7 | 2082.5 | 2191.4 | 2194.1 |
| 70° | 12128.6 | 3161.0 | 1742.5 | 2024.1 | 2005.5 | 1978.9 | 2069.2 | 2016.1 | 1941.7 | 2074.6 | 2048.0 |
| 72.5° | 10141.7 | 2414.6 | 1391.9 | 1654.9 | 1763.8 | 1891.3 | 2013.5 | 1862.1 | 1758.5 | 1798.3 | 1750.5 |
| 75° | 7618.2 | 1785.0 | 1118.3 | 1296.3 | 1468.9 | 1766.4 | 1963.0 | 1676.1 | 1516.7 | 1479.5 | 1468.9 |
| 77.5° | 3883.5 | 1166.1 | 836.7 | 969.5 | 1102.4 | 1596.4 | 1893.9 | 1458.3 | 1256.4 | 1198.0 | 1171.4 |
| 80° | 1386.6 | 725.2 | 589.7 | 669.4 | 743.8 | 1373.3 | 1654.9 | 1206.0 | 974.9 | 964.2 | 974.9 |
| 82.5° | 642.8 | 467.5 | 395.8 | 438.3 | 440.9 | 916.4 | 1261.7 | 900.5 | 741.1 | 1126.3 | 950.9 |
| 85° | 276.3 | 233.8 | 223.1 | 217.8 | 201.9 | 409.1 | 709.2 | 483.4 | 754.4 | 337.3 | 310.8 |
| 87.5° | 82.3 | 93.0 | 82.3 | 61.1 | 45.2 | 45.2 | 71.7 | 26.6 | 18.6 | 13.3 | 13.3 |
| 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)