

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: P454388

Luminaire Tested: **GLAN-SA5C-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5C-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29199 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

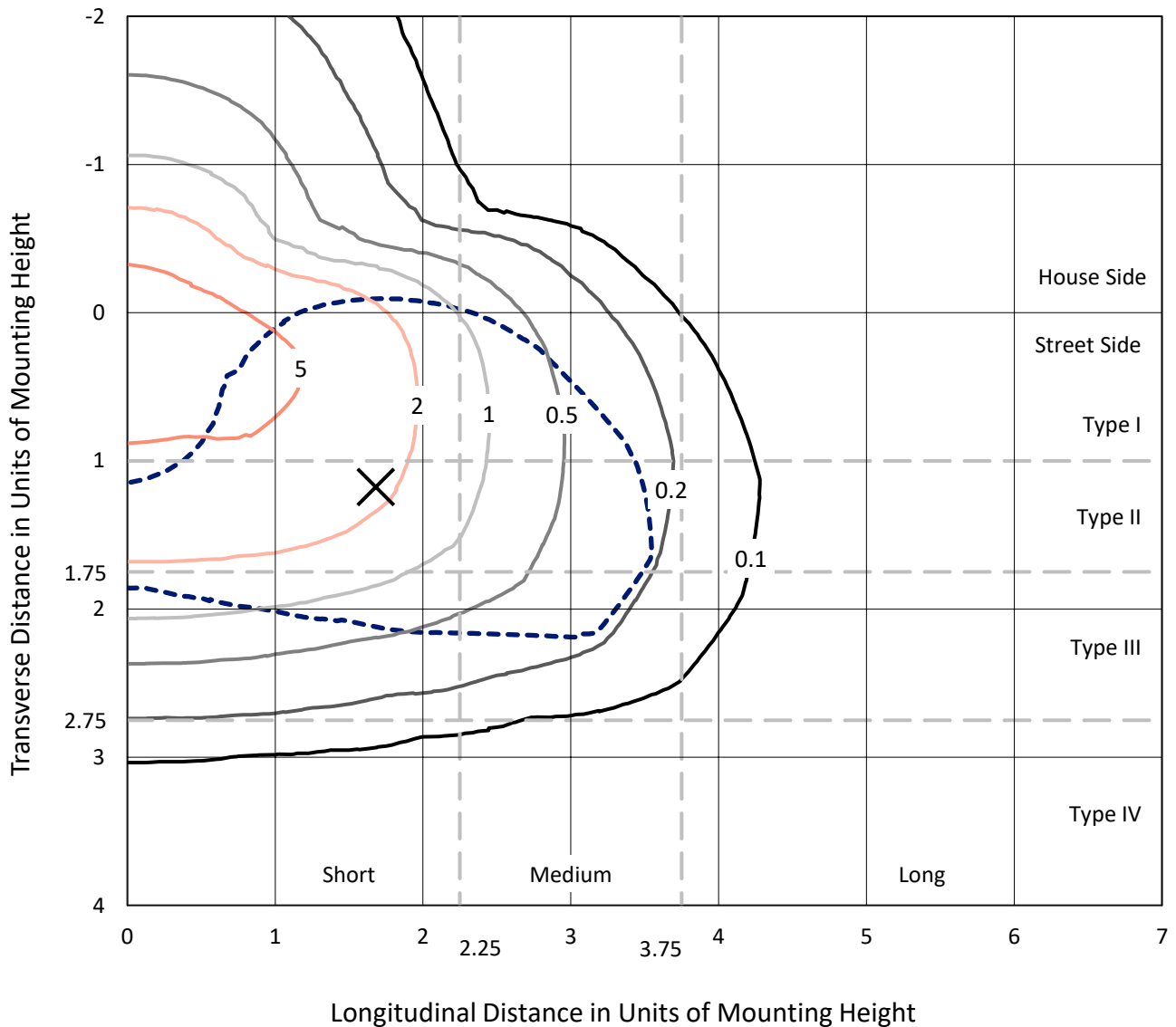
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

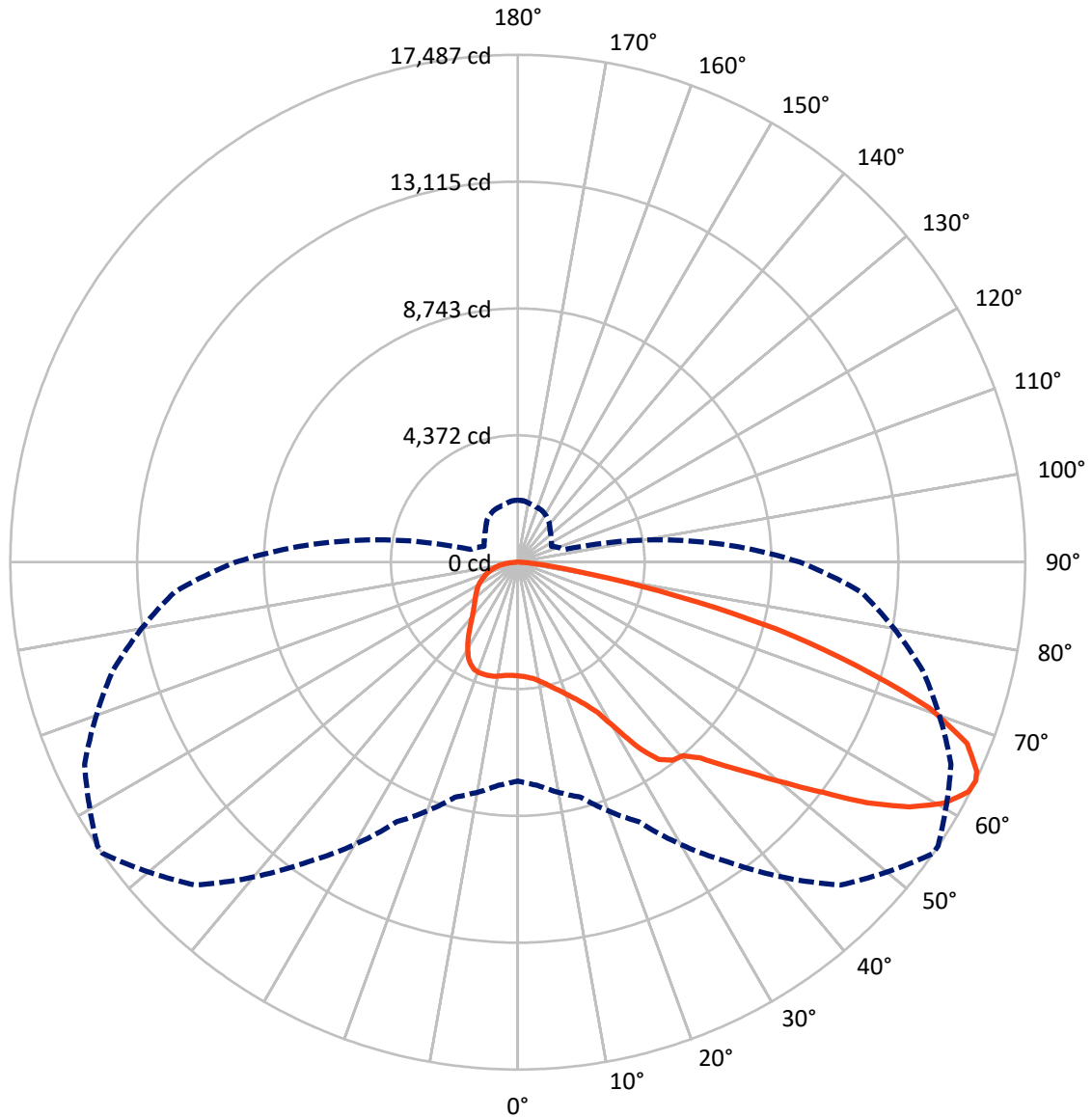
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7093.0 | 0.0 | 7093.0 |
| | % Fixture | 24.3 | 0.0 | 24.3 |
| Street Side | Lumens | 22106.0 | 0.0 | 22106.0 |
| | % Fixture | 75.7 | 0.0 | 75.7 |
| Total | Lumens | 29199.0 | 0.0 | 29199.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 381.1 | 1.3 |
| 10°-20° | 1202.4 | 4.1 |
| 20°-30° | 2140.6 | 7.3 |
| 30°-40° | 3293.6 | 11.3 |
| 40°-50° | 4668.9 | 16.0 |
| 50°-60° | 6758.2 | 23.1 |
| 60°-70° | 6994.0 | 24.0 |
| 70°-80° | 3275.3 | 11.2 |
| 80°-90° | 484.9 | 1.7 |
| 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° | 29199.0 | 100.0 |
| 0°-180° | 29199.0 | 100.0 |

Coefficient of Utilization



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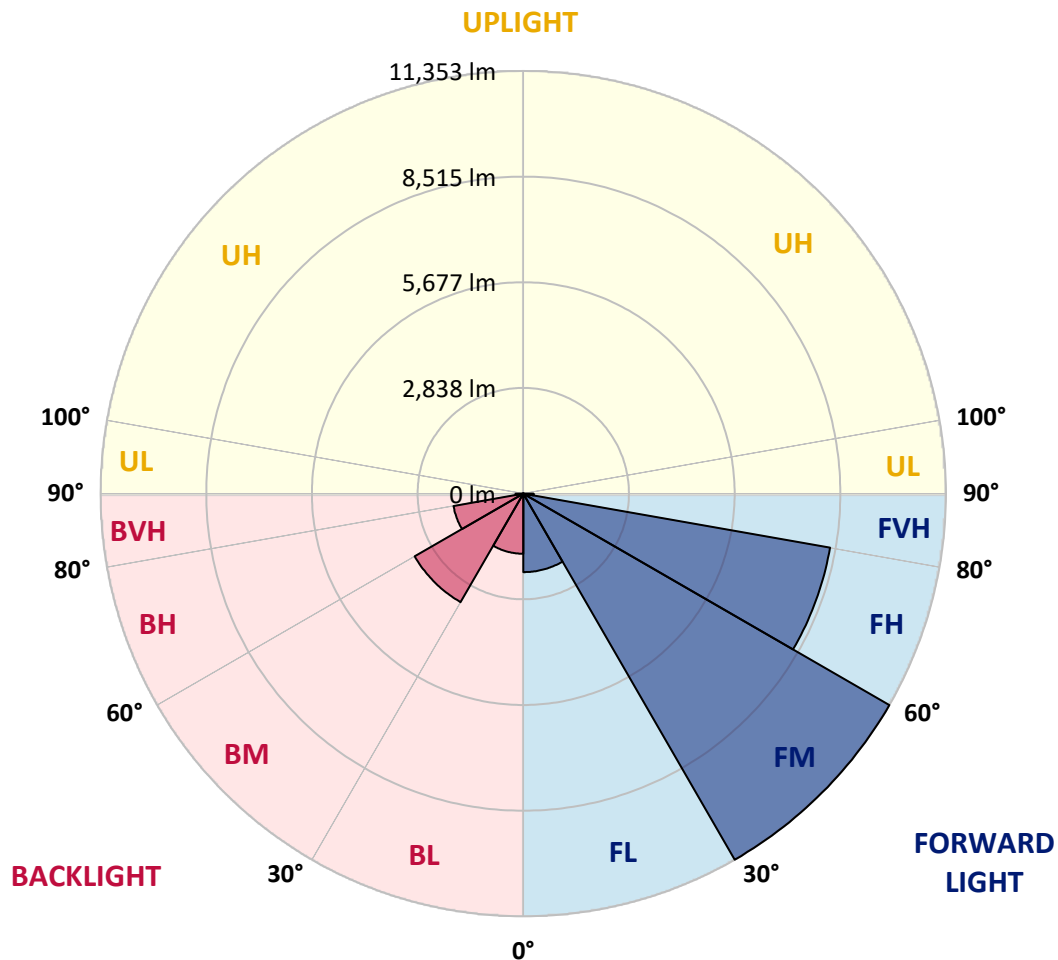
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2108.6 | 7.2 | | | |
| FM | (30°-60°) | 11353.4 | 38.9 | | | |
| FH | (60°-80°) | 8366.4 | 28.7 | | | G4/12000 |
| FVH | (80°-90°) | 277.6 | 1.0 | | | G3/500 |
| BL | (0°-30°) | 1615.5 | 5.5 | B3/2500 | | |
| BM | (30°-60°) | 3367.3 | 11.5 | B3/5000 | | |
| BH | (60°-80°) | 1902.9 | 6.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 207.2 | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3917.6 | 3917.6 | 3917.6 | 3917.6 | 3917.6 | 3917.6 | 3917.6 | 3917.6 | 3917.6 | 3917.6 | 3917.6 |
| 2.5° | 3961.6 | 3959.9 | 3964.8 | 3959.9 | 3963.2 | 3951.8 | 3946.9 | 3950.2 | 3945.3 | 3937.2 | 3922.5 |
| 5° | 4010.4 | 4008.8 | 4010.4 | 4003.9 | 4007.1 | 4000.6 | 3989.2 | 3992.5 | 3984.4 | 3966.5 | 3945.3 |
| 7.5° | 4093.4 | 4086.9 | 4086.9 | 4085.3 | 4078.8 | 4069.0 | 4060.9 | 4057.6 | 4049.5 | 4026.7 | 3994.1 |
| 10° | 4200.8 | 4200.8 | 4202.5 | 4189.4 | 4197.6 | 4179.7 | 4171.5 | 4169.9 | 4142.2 | 4112.9 | 4067.4 |
| 12.5° | 4342.4 | 4350.6 | 4345.7 | 4339.2 | 4335.9 | 4329.4 | 4301.7 | 4308.2 | 4277.3 | 4226.9 | 4171.5 |
| 15° | 4518.2 | 4531.2 | 4523.1 | 4519.8 | 4511.7 | 4487.3 | 4475.9 | 4471.0 | 4430.3 | 4357.1 | 4283.8 |
| 17.5° | 4751.0 | 4734.7 | 4728.2 | 4720.0 | 4685.8 | 4667.9 | 4648.4 | 4645.2 | 4609.4 | 4523.1 | 4409.2 |
| 20° | 4954.4 | 4977.2 | 4964.2 | 4956.0 | 4921.9 | 4887.7 | 4873.0 | 4868.1 | 4837.2 | 4742.8 | 4560.5 |
| 22.5° | 5196.9 | 5201.8 | 5206.7 | 5187.1 | 5170.9 | 5144.8 | 5118.8 | 5110.7 | 5099.3 | 5001.6 | 4778.6 |
| 25° | 5455.7 | 5475.2 | 5459.0 | 5439.4 | 5419.9 | 5418.3 | 5442.7 | 5439.4 | 5434.5 | 5340.1 | 5068.3 |
| 27.5° | 5877.3 | 5895.2 | 5900.0 | 5878.9 | 5804.0 | 5810.5 | 5865.9 | 5883.8 | 5958.6 | 5802.4 | 5441.1 |
| 30° | 6114.9 | 6132.8 | 6173.5 | 6253.2 | 6372.0 | 6476.2 | 6609.7 | 6650.4 | 6722.0 | 6427.4 | 5883.8 |
| 32.5° | 6261.4 | 6267.9 | 6341.1 | 6489.2 | 6845.7 | 7234.7 | 7597.6 | 7612.3 | 7657.8 | 7244.4 | 6289.0 |
| 35° | 6492.5 | 6497.4 | 6556.0 | 6718.7 | 7137.0 | 7784.8 | 8346.3 | 8364.2 | 8326.8 | 7498.3 | 6477.8 |
| 37.5° | 6777.3 | 6790.3 | 6827.8 | 6962.9 | 7462.5 | 8245.4 | 8657.2 | 8644.2 | 8312.1 | 7700.2 | 6811.5 |
| 40° | 7192.3 | 7192.3 | 7148.4 | 7330.7 | 7806.0 | 8509.1 | 8766.2 | 8743.4 | 8655.6 | 8284.5 | 7319.3 |
| 42.5° | 7558.6 | 7552.0 | 7656.2 | 7779.9 | 8235.6 | 8916.0 | 9223.6 | 9261.0 | 9405.9 | 9018.5 | 7897.1 |
| 45° | 8035.4 | 8064.7 | 8123.3 | 8347.9 | 8966.4 | 9611.0 | 10008.1 | 10043.9 | 10249.0 | 9882.8 | 8572.6 |
| 47.5° | 8517.2 | 8527.0 | 8710.9 | 9010.4 | 9871.4 | 10553.3 | 10878.9 | 10937.4 | 11124.6 | 10893.5 | 9300.1 |
| 50° | 8859.0 | 8951.8 | 9246.4 | 9718.4 | 10804.0 | 11702.4 | 11956.3 | 12026.3 | 12356.7 | 11993.8 | 10148.1 |
| 52.5° | 9220.3 | 9311.5 | 9671.2 | 10390.6 | 11874.9 | 12877.5 | 13190.0 | 13237.2 | 13580.7 | 13107.0 | 11015.6 |
| 55° | 9529.6 | 9614.2 | 10022.7 | 10986.3 | 12727.8 | 14077.1 | 14643.5 | 14588.1 | 14752.5 | 13964.8 | 11684.5 |
| 57.5° | 9580.0 | 9648.4 | 10162.7 | 11367.1 | 13369.1 | 15105.7 | 15917.9 | 15950.4 | 15760.0 | 14606.0 | 12236.3 |
| 60° | 9189.4 | 9329.4 | 9920.2 | 11326.4 | 13657.2 | 15821.9 | 16868.4 | 16891.2 | 16350.8 | 14934.8 | 12456.0 |
| 62.5° | 8497.7 | 8483.0 | 9197.5 | 10672.1 | 13253.5 | 15984.6 | 17428.3 | 17403.9 | 16582.0 | 14776.9 | 12242.8 |
| 64° | 7542.3 | 7718.1 | 8385.4 | 9868.1 | 12602.5 | 15734.0 | 17486.9 | 17473.9 | 16471.3 | 14448.2 | 11879.8 |
| 65° | 6959.6 | 6949.8 | 7609.0 | 9210.6 | 11954.7 | 15356.4 | 17382.7 | 17364.8 | 16240.2 | 14153.6 | 11598.3 |
| 67.5° | 5024.4 | 5047.2 | 5698.2 | 7107.7 | 9718.4 | 13880.1 | 16704.0 | 16637.3 | 15328.7 | 13177.0 | 10527.3 |
| 70° | 3043.6 | 3056.6 | 3567.7 | 4715.1 | 6975.9 | 11220.6 | 15056.9 | 15060.1 | 13933.9 | 11718.7 | 8959.9 |
| 72.5° | 1603.2 | 1637.4 | 1842.4 | 2677.4 | 4236.6 | 7872.7 | 12215.1 | 12504.8 | 11962.8 | 10001.6 | 7078.4 |
| 75° | 891.9 | 896.8 | 1041.7 | 1320.0 | 2161.4 | 4405.9 | 9181.3 | 9264.3 | 9471.0 | 8050.1 | 5234.3 |
| 77.5° | 680.3 | 690.1 | 735.7 | 852.9 | 1176.8 | 2042.6 | 5556.6 | 5973.3 | 6674.8 | 5675.4 | 2986.6 |
| 80° | 551.8 | 561.5 | 600.6 | 670.6 | 782.9 | 968.4 | 2581.4 | 2806.0 | 3572.6 | 2519.5 | 1165.4 |
| 82.5° | 429.7 | 423.2 | 473.6 | 519.2 | 569.7 | 572.9 | 1059.6 | 1171.9 | 1455.1 | 1084.0 | 504.6 |
| 85° | 319.0 | 319.0 | 359.7 | 349.9 | 367.8 | 335.3 | 467.1 | 515.9 | 582.7 | 460.6 | 234.4 |
| 87.5° | 127.0 | 140.0 | 236.0 | 211.6 | 164.4 | 131.8 | 172.5 | 182.3 | 201.8 | 180.7 | 97.7 |
| 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° | 3917.6 | 3917.6 | 3917.6 | 3917.6 | 3917.6 | 3917.6 | 3917.6 | 3917.6 | 3917.6 | 3917.6 | 3917.6 |
| 2.5° | 3924.1 | 3929.0 | 3917.6 | 3909.5 | 3906.2 | 3901.3 | 3896.5 | 3898.1 | 3904.6 | 3911.1 | 3909.5 |
| 5° | 3943.7 | 3945.3 | 3925.8 | 3916.0 | 3909.5 | 3903.0 | 3903.0 | 3907.9 | 3920.9 | 3930.6 | 3930.6 |
| 7.5° | 3992.5 | 3992.5 | 3964.8 | 3946.9 | 3937.2 | 3925.8 | 3922.5 | 3924.1 | 3933.9 | 3946.9 | 3948.5 |
| 10° | 4069.0 | 4062.5 | 4026.7 | 3999.0 | 3981.1 | 3953.4 | 3929.0 | 3916.0 | 3920.9 | 3929.0 | 3929.0 |
| 12.5° | 4161.8 | 4143.9 | 4098.3 | 4060.9 | 4016.9 | 3964.8 | 3914.4 | 3888.3 | 3886.7 | 3894.8 | 3891.6 |
| 15° | 4261.0 | 4241.5 | 4178.0 | 4109.7 | 4033.2 | 3956.7 | 3896.5 | 3859.0 | 3829.7 | 3821.6 | 3839.5 |
| 17.5° | 4376.6 | 4335.9 | 4248.0 | 4153.6 | 4039.7 | 3940.4 | 3846.0 | 3769.5 | 3717.4 | 3702.8 | 3707.7 |
| 20° | 4516.6 | 4462.9 | 4344.1 | 4195.9 | 4034.8 | 3881.8 | 3735.3 | 3632.8 | 3548.2 | 3522.1 | 3525.4 |
| 22.5° | 4710.3 | 4617.5 | 4443.3 | 4217.1 | 3994.1 | 3771.1 | 3567.7 | 3434.2 | 3331.7 | 3291.0 | 3315.4 |
| 25° | 4930.0 | 4829.1 | 4537.7 | 4212.2 | 3888.3 | 3593.7 | 3369.1 | 3195.0 | 3102.2 | 3042.0 | 3055.0 |
| 27.5° | 5232.7 | 5053.7 | 4638.6 | 4168.3 | 3737.0 | 3377.3 | 3116.8 | 2952.5 | 2867.8 | 2836.9 | 2851.5 |
| 30° | 5620.1 | 5345.0 | 4747.7 | 4049.5 | 3497.7 | 3103.8 | 2862.9 | 2755.5 | 2705.1 | 2666.0 | 2679.0 |
| 32.5° | 5900.0 | 5550.1 | 4772.1 | 3849.3 | 3238.9 | 2854.8 | 2690.4 | 2610.7 | 2555.3 | 2517.9 | 2526.0 |
| 35° | 6100.2 | 5724.3 | 4760.7 | 3603.5 | 2968.7 | 2649.7 | 2553.7 | 2488.6 | 2399.1 | 2317.7 | 2303.0 |
| 37.5° | 6368.8 | 5942.4 | 4677.7 | 3334.9 | 2701.8 | 2511.4 | 2443.0 | 2322.6 | 2194.0 | 2085.0 | 2080.1 |
| 40° | 6780.6 | 6197.9 | 4500.3 | 3019.2 | 2473.9 | 2408.8 | 2325.8 | 2169.6 | 2031.2 | 1943.4 | 1936.8 |
| 42.5° | 7205.4 | 6433.9 | 4259.4 | 2687.2 | 2286.8 | 2301.4 | 2200.5 | 2045.9 | 1961.3 | 1904.3 | 1897.8 |
| 45° | 7724.6 | 6689.4 | 3999.0 | 2399.1 | 2148.4 | 2200.5 | 2091.5 | 2001.9 | 1951.5 | 1914.1 | 1904.3 |
| 47.5° | 8286.1 | 6951.5 | 3706.0 | 2140.3 | 2031.2 | 2107.7 | 2045.9 | 2005.2 | 1977.5 | 1951.5 | 1940.1 |
| 50° | 8891.6 | 7244.4 | 3431.0 | 1932.0 | 1925.4 | 2011.7 | 2041.0 | 2026.4 | 2010.1 | 2001.9 | 1992.2 |
| 52.5° | 9555.6 | 7543.9 | 3199.9 | 1785.5 | 1832.7 | 1943.4 | 2042.6 | 2054.0 | 2054.0 | 2049.1 | 2042.6 |
| 55° | 10004.8 | 7752.2 | 2965.5 | 1666.7 | 1738.3 | 1888.0 | 2039.4 | 2083.3 | 2099.6 | 2093.1 | 2086.6 |
| 57.5° | 10336.9 | 7866.2 | 2670.9 | 1564.1 | 1658.5 | 1834.3 | 2021.5 | 2086.6 | 2102.9 | 2111.0 | 2107.7 |
| 60° | 10405.2 | 7760.4 | 2285.1 | 1456.7 | 1572.3 | 1756.2 | 1956.4 | 2037.8 | 2058.9 | 2109.4 | 2114.2 |
| 62.5° | 10097.6 | 7434.9 | 1901.0 | 1350.9 | 1466.5 | 1637.4 | 1868.5 | 1982.4 | 2024.7 | 2102.9 | 2111.0 |
| 64° | 9720.0 | 7070.3 | 1687.8 | 1284.2 | 1398.1 | 1570.6 | 1824.5 | 1967.8 | 2023.1 | 2127.3 | 2133.8 |
| 65° | 9443.3 | 6805.0 | 1554.4 | 1241.9 | 1354.2 | 1526.7 | 1800.1 | 1972.6 | 2037.8 | 2164.7 | 2174.5 |
| 67.5° | 8424.4 | 5891.9 | 1285.8 | 1142.6 | 1250.0 | 1451.8 | 1805.0 | 2013.3 | 2034.5 | 2179.4 | 2177.7 |
| 70° | 6971.0 | 4690.7 | 1077.5 | 1051.4 | 1149.1 | 1391.6 | 1785.5 | 1948.2 | 1949.9 | 2045.9 | 2023.1 |
| 72.5° | 5219.7 | 3466.8 | 934.2 | 957.0 | 1036.8 | 1248.4 | 1686.2 | 1860.3 | 1832.7 | 1845.7 | 1822.9 |
| 75° | 3585.6 | 2293.3 | 804.0 | 856.1 | 919.6 | 1103.5 | 1546.2 | 1689.4 | 1645.5 | 1629.2 | 1612.9 |
| 77.5° | 1914.1 | 1267.9 | 668.9 | 756.8 | 799.1 | 953.8 | 1349.3 | 1487.6 | 1442.1 | 1378.6 | 1357.4 |
| 80° | 774.7 | 597.3 | 538.7 | 626.6 | 651.0 | 768.2 | 1123.0 | 1209.3 | 1175.1 | 1064.4 | 1028.6 |
| 82.5° | 389.0 | 358.1 | 423.2 | 493.2 | 494.8 | 548.5 | 835.0 | 916.3 | 839.8 | 704.7 | 673.8 |
| 85° | 203.4 | 210.0 | 291.3 | 346.7 | 306.0 | 296.2 | 501.3 | 555.0 | 509.4 | 442.7 | 398.8 |
| 87.5° | 73.2 | 84.6 | 153.0 | 151.4 | 107.4 | 57.0 | 110.7 | 53.7 | 29.3 | 17.9 | 22.8 |
| 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)