

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: P268954

Luminaire Tested: **GAN-AF-10-LED-U-T4FT-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33928.9 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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

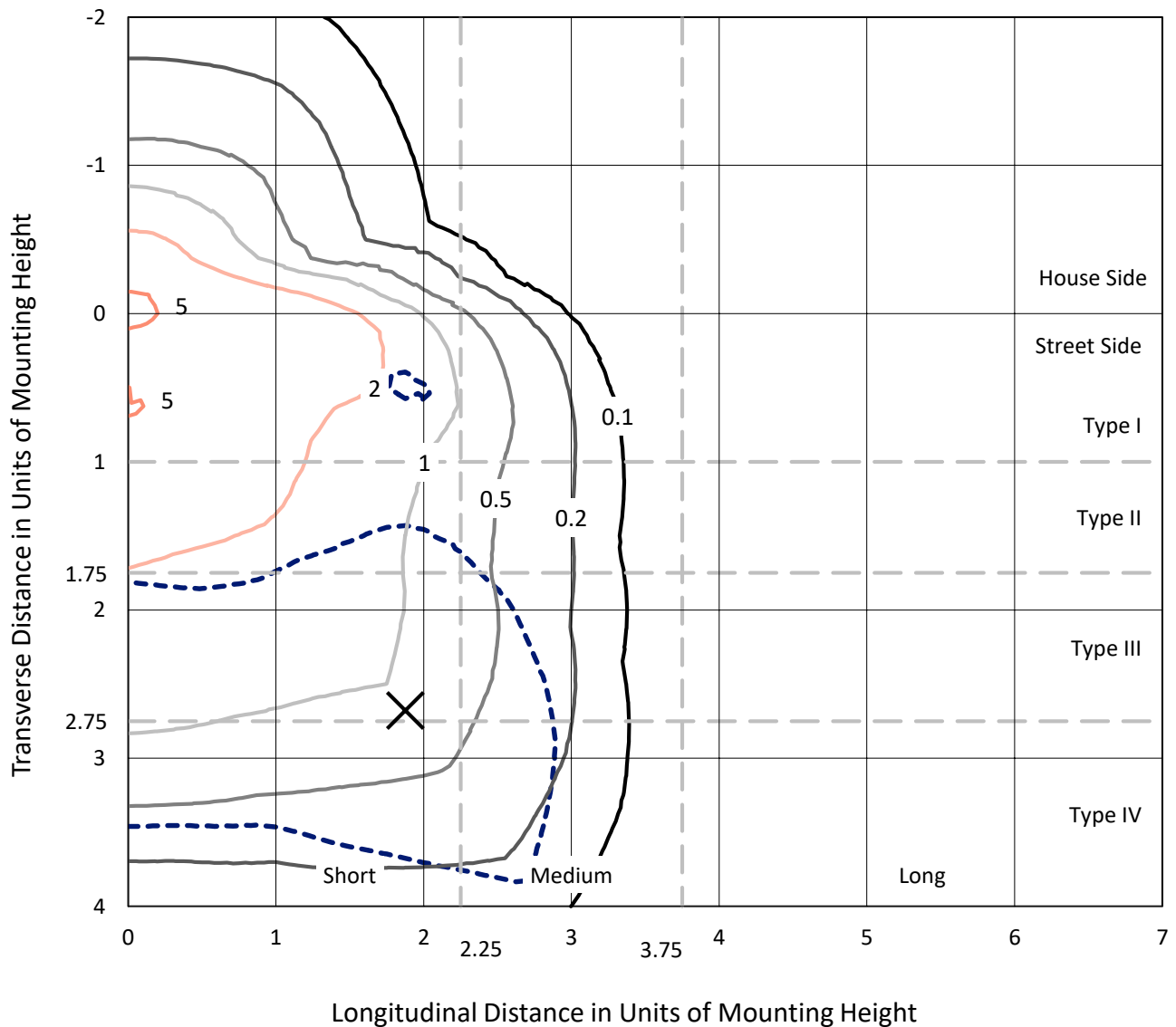


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

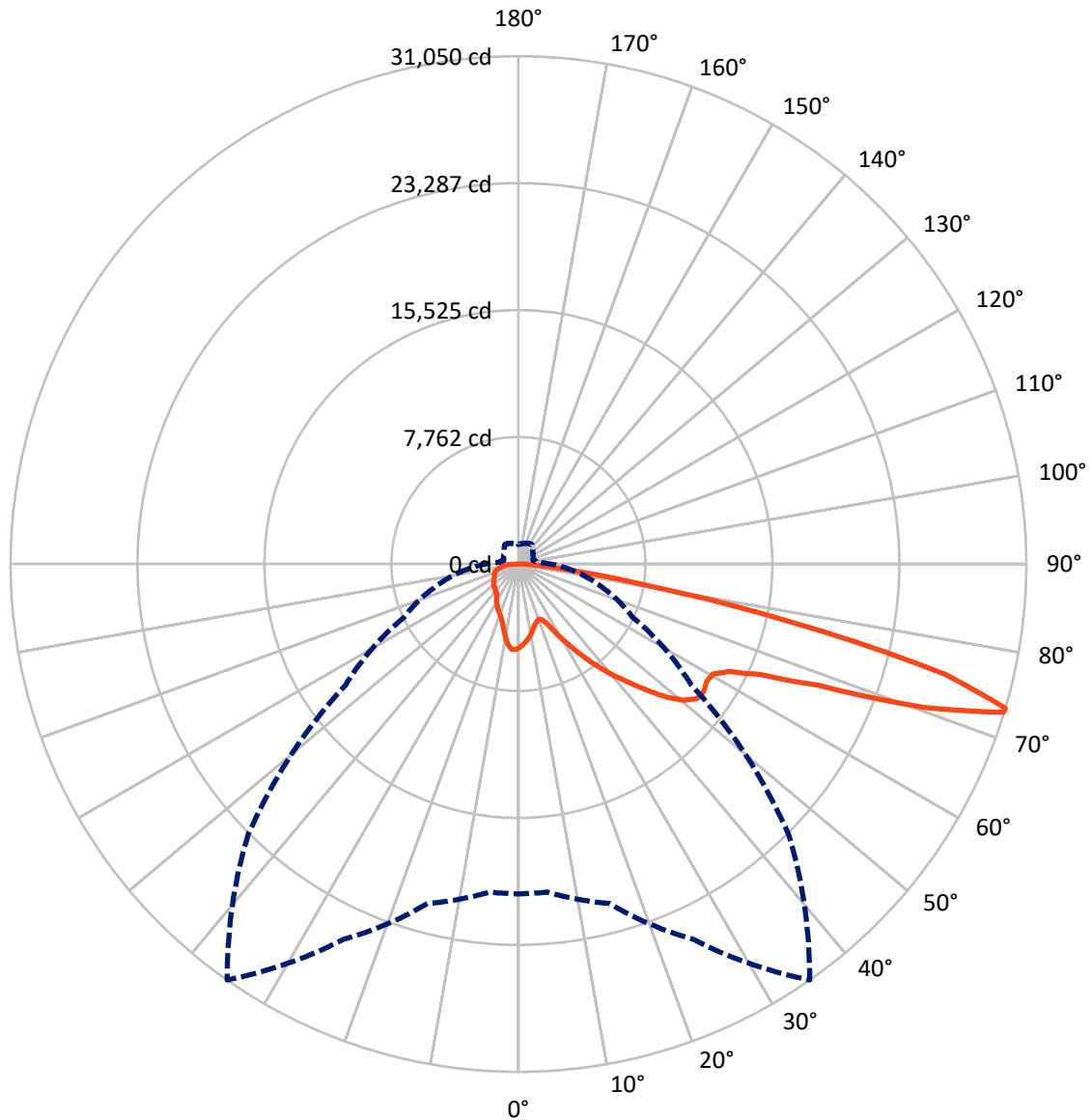


Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6471.2 | 0.0 | 6471.2 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 27457.7 | 0.0 | 27457.7 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 33928.9 | 0.0 | 33928.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 463.6 | 1.4 |
| 10°-20° | 1157.0 | 3.4 |
| 20°-30° | 1870.5 | 5.5 |
| 30°-40° | 3136.6 | 9.2 |
| 40°-50° | 4835.0 | 14.3 |
| 50°-60° | 6486.6 | 19.1 |
| 60°-70° | 8641.5 | 25.5 |
| 70°-80° | 6590.9 | 19.4 |
| 80°-90° | 747.0 | 2.2 |
| 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° | 33928.9 | 100.0 |
| 0°-180° | 33928.9 | 100.0 |

Coefficient of Utilization



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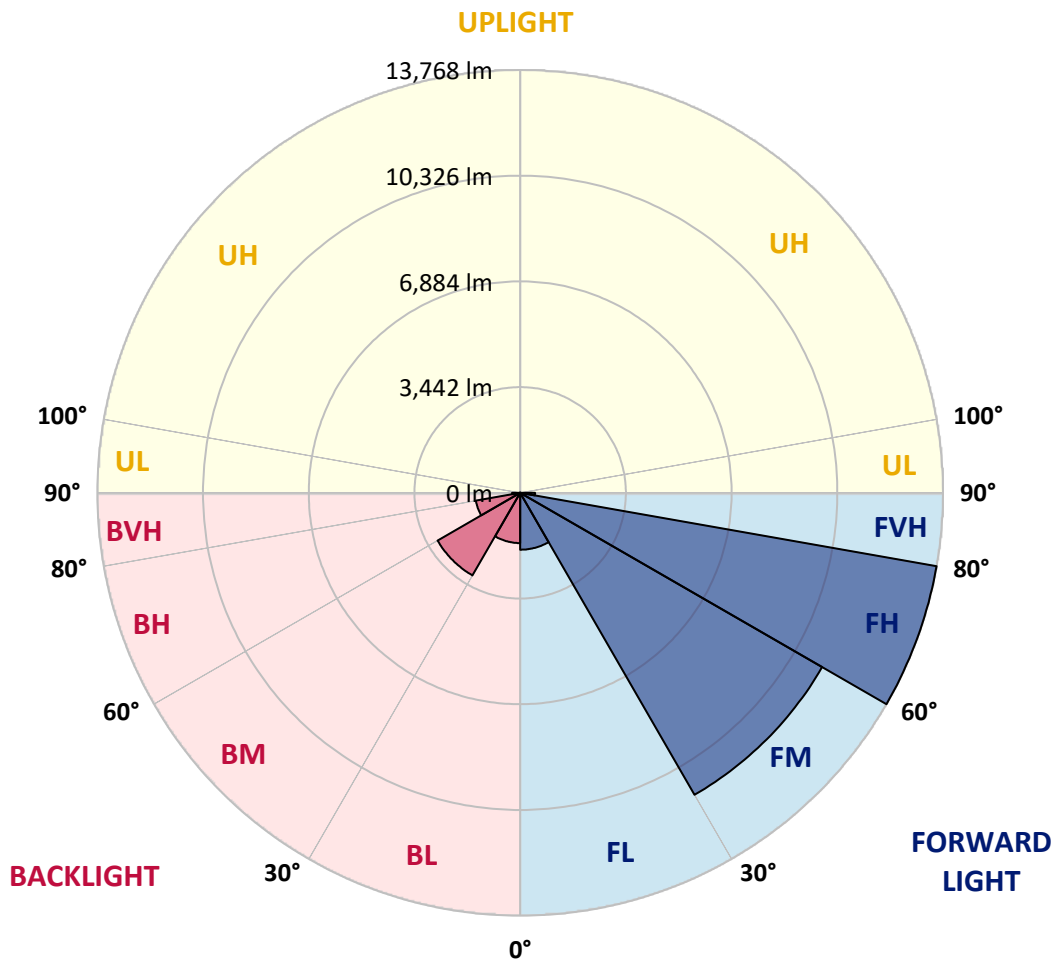
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1853.7 | 5.5 | | | |
| FM | (30°-60°) | 11352.8 | 33.5 | | | |
| FH | (60°-80°) | 13768.3 | 40.6 | | | G5 |
| FVH | (80°-90°) | 482.9 | 1.4 | | | G3/500 |
| BL | (0°-30°) | 1637.5 | 4.8 | B3/2500 | | |
| BM | (30°-60°) | 3105.4 | 9.2 | B3/5000 | | |
| BH | (60°-80°) | 1464.1 | 4.3 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 264.2 | 0.8 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5120.9 | 5120.9 | 5120.9 | 5120.9 | 5120.9 | 5120.9 | 5120.9 | 5120.9 | 5120.9 | 5120.9 | 5120.9 |
| 2.5° | 4918.8 | 4928.7 | 4917.2 | 4932.0 | 4956.4 | 4982.4 | 5000.3 | 5026.5 | 5055.8 | 5096.4 | 5106.2 |
| 5° | 4687.5 | 4702.2 | 4702.2 | 4728.3 | 4775.5 | 4817.9 | 4857.0 | 4899.4 | 4961.2 | 5031.2 | 5059.1 |
| 7.5° | 4433.3 | 4441.5 | 4456.1 | 4495.3 | 4563.7 | 4623.9 | 4679.5 | 4747.8 | 4832.5 | 4925.3 | 4974.3 |
| 10° | 4127.1 | 4138.4 | 4161.3 | 4216.6 | 4309.4 | 4392.6 | 4472.4 | 4567.0 | 4674.5 | 4790.1 | 4852.0 |
| 12.5° | 3910.3 | 3907.1 | 3916.9 | 3957.7 | 4039.0 | 4140.1 | 4255.7 | 4376.4 | 4508.4 | 4643.5 | 4718.4 |
| 15° | 3837.0 | 3819.1 | 3781.7 | 3771.9 | 3815.8 | 3916.9 | 4050.5 | 4198.7 | 4356.8 | 4519.7 | 4612.5 |
| 17.5° | 3882.7 | 3851.8 | 3749.0 | 3674.1 | 3667.6 | 3744.1 | 3885.9 | 4052.1 | 4234.6 | 4433.3 | 4549.0 |
| 20° | 4169.5 | 4096.1 | 3843.6 | 3669.1 | 3608.9 | 3646.4 | 3770.2 | 3946.2 | 4161.3 | 4425.2 | 4573.5 |
| 22.5° | 4855.2 | 4747.8 | 4211.8 | 3887.5 | 3683.9 | 3638.2 | 3731.1 | 3918.4 | 4169.5 | 4526.2 | 4715.3 |
| 25° | 5854.2 | 5701.0 | 4843.9 | 4431.7 | 4011.3 | 3768.6 | 3789.8 | 3982.0 | 4285.1 | 4760.8 | 4988.9 |
| 27.5° | 6642.6 | 6543.3 | 5670.0 | 5199.1 | 4607.6 | 4120.5 | 3980.4 | 4141.6 | 4521.3 | 5145.3 | 5378.3 |
| 30° | 7111.9 | 7051.6 | 6553.0 | 6069.2 | 5368.6 | 4681.0 | 4345.5 | 4441.5 | 4891.2 | 5678.1 | 5870.5 |
| 32.5° | 7656.2 | 7620.3 | 7375.9 | 6931.1 | 6189.7 | 5417.5 | 4923.8 | 4889.6 | 5386.4 | 6318.5 | 6406.4 |
| 35° | 8219.9 | 8208.4 | 8065.1 | 7745.7 | 7071.2 | 6388.6 | 5691.2 | 5459.8 | 5925.8 | 6983.2 | 6927.8 |
| 37.5° | 8744.6 | 8725.0 | 8641.9 | 8456.1 | 7993.4 | 7431.3 | 6473.2 | 6044.8 | 6507.4 | 7618.6 | 7372.6 |
| 40° | 9710.7 | 9557.5 | 9272.3 | 9132.3 | 8925.4 | 8309.5 | 7094.1 | 6590.5 | 7110.4 | 8224.7 | 7757.1 |
| 42.5° | 10888.6 | 10639.3 | 10108.2 | 9916.0 | 9886.7 | 9001.9 | 7517.6 | 7120.1 | 7718.1 | 8825.9 | 8135.1 |
| 45° | 11815.8 | 11581.0 | 11123.4 | 10880.5 | 10988.1 | 9629.2 | 7942.9 | 7685.4 | 8343.6 | 9456.5 | 8524.6 |
| 47.5° | 12804.7 | 12436.6 | 11830.4 | 11903.7 | 12138.3 | 10222.4 | 8376.2 | 8293.2 | 9029.7 | 10161.9 | 9008.5 |
| 50° | 12840.6 | 12558.8 | 12293.1 | 12731.4 | 13096.4 | 10768.2 | 8918.8 | 8930.2 | 9868.7 | 11050.1 | 9652.0 |
| 52.5° | 12095.9 | 12035.8 | 12457.7 | 13146.9 | 13673.1 | 11199.9 | 9536.3 | 9588.5 | 10942.4 | 12069.8 | 10359.2 |
| 55° | 11835.3 | 11766.9 | 12254.0 | 13001.9 | 13751.3 | 11556.6 | 10206.1 | 10300.4 | 12241.1 | 13145.3 | 11048.3 |
| 57.5° | 12470.7 | 12319.1 | 12351.8 | 12933.4 | 13560.8 | 11947.6 | 10936.0 | 11126.5 | 13652.0 | 14085.3 | 11491.5 |
| 60° | 14246.7 | 13922.4 | 13306.6 | 13292.0 | 13663.4 | 12534.3 | 11780.0 | 12012.9 | 15118.4 | 14535.0 | 11318.9 |
| 62.5° | 16737.8 | 16413.7 | 15260.0 | 14509.0 | 14453.5 | 13502.1 | 12816.2 | 12878.0 | 15965.5 | 13925.6 | 10264.7 |
| 65° | 19434.4 | 19144.4 | 17855.6 | 16794.9 | 16283.2 | 15105.3 | 14020.1 | 13264.3 | 15688.5 | 12249.2 | 8420.3 |
| 67.5° | 22707.6 | 22396.5 | 21288.6 | 20309.3 | 19817.2 | 17692.7 | 14865.8 | 12894.4 | 13930.6 | 9489.1 | 6052.9 |
| 70° | 24996.9 | 24679.1 | 24242.5 | 25035.9 | 26240.0 | 21425.5 | 14974.9 | 11390.5 | 10404.8 | 6307.1 | 3643.2 |
| 72.5° | 22010.4 | 21862.1 | 22658.8 | 26000.5 | 31015.5 | 23690.1 | 13536.3 | 8293.2 | 6043.1 | 3348.3 | 2108.3 |
| 73° | 20166.0 | 20133.4 | 21492.2 | 25324.4 | 31049.7 | 23341.5 | 12905.8 | 7708.3 | 5182.9 | 2962.2 | 1927.5 |
| 75° | 9106.2 | 9368.6 | 12346.9 | 19343.2 | 26976.5 | 19234.0 | 9083.4 | 4421.9 | 2927.8 | 2046.3 | 1455.0 |
| 77.5° | 2188.1 | 2279.4 | 3863.2 | 9186.1 | 17036.0 | 11462.2 | 4115.7 | 2186.6 | 1872.1 | 1445.3 | 1062.3 |
| 80° | 931.9 | 963.0 | 1487.6 | 3393.8 | 8021.1 | 4615.9 | 1896.5 | 1464.7 | 1295.3 | 1008.5 | 744.5 |
| 82.5° | 518.1 | 550.8 | 844.0 | 1539.7 | 3237.4 | 1573.9 | 1156.7 | 1019.9 | 852.1 | 607.8 | 483.8 |
| 85° | 293.2 | 311.3 | 493.7 | 860.2 | 1371.9 | 632.1 | 692.5 | 677.9 | 480.7 | 312.8 | 238.0 |
| 87.5° | 138.5 | 149.8 | 238.0 | 399.1 | 537.6 | 247.7 | 352.0 | 387.8 | 301.4 | 190.6 | 123.8 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5120.9 | 5120.9 | 5120.9 | 5120.9 | 5120.9 | 5120.9 | 5120.9 | 5120.9 | 5120.9 | 5120.9 |
| 2.5° | 5117.6 | 5147.0 | 5181.2 | 5199.1 | 5215.4 | 5235.0 | 5254.5 | 5254.5 | 5257.8 | 5259.3 |
| 5° | 5081.8 | 5142.1 | 5195.8 | 5218.7 | 5223.6 | 5223.6 | 5218.7 | 5192.7 | 5169.7 | 5179.5 |
| 7.5° | 5006.9 | 5094.8 | 5140.6 | 5132.3 | 5070.5 | 4998.7 | 4938.4 | 4865.1 | 4827.6 | 4821.2 |
| 10° | 4899.4 | 5000.3 | 5008.5 | 4927.1 | 4773.9 | 4620.7 | 4493.6 | 4369.9 | 4311.1 | 4296.6 |
| 12.5° | 4780.4 | 4873.2 | 4821.2 | 4653.3 | 4407.3 | 4184.0 | 4022.8 | 3897.2 | 3842.0 | 3827.3 |
| 15° | 4684.2 | 4747.8 | 4615.9 | 4351.8 | 4042.4 | 3806.1 | 3672.5 | 3579.6 | 3540.5 | 3529.1 |
| 17.5° | 4633.7 | 4646.8 | 4405.6 | 4048.8 | 3719.7 | 3522.6 | 3439.5 | 3395.5 | 3380.9 | 3372.6 |
| 20° | 4658.3 | 4567.0 | 4205.2 | 3767.0 | 3455.8 | 3317.4 | 3297.7 | 3286.3 | 3283.0 | 3278.2 |
| 22.5° | 4780.4 | 4542.5 | 4021.2 | 3499.7 | 3224.3 | 3164.1 | 3180.4 | 3178.8 | 3175.5 | 3172.3 |
| 25° | 4998.7 | 4563.7 | 3842.0 | 3245.5 | 3030.5 | 3017.4 | 3046.8 | 3046.8 | 3033.8 | 3033.8 |
| 27.5° | 5287.2 | 4607.6 | 3641.5 | 3004.4 | 2854.5 | 2856.3 | 2879.0 | 2872.5 | 2857.8 | 2848.0 |
| 30° | 5639.0 | 4635.3 | 3406.9 | 2787.7 | 2690.0 | 2683.4 | 2690.0 | 2662.2 | 2618.3 | 2615.1 |
| 32.5° | 5999.2 | 4601.2 | 3134.7 | 2595.6 | 2515.7 | 2501.1 | 2496.1 | 2457.0 | 2406.5 | 2391.8 |
| 35° | 6325.0 | 4475.7 | 2857.8 | 2442.3 | 2349.4 | 2316.9 | 2339.6 | 2326.7 | 2281.1 | 2269.6 |
| 37.5° | 6562.8 | 4242.8 | 2608.5 | 2307.0 | 2230.5 | 2222.3 | 2237.0 | 2241.9 | 2188.1 | 2176.8 |
| 40° | 6722.6 | 3926.6 | 2395.2 | 2193.0 | 2207.8 | 2176.8 | 2127.8 | 2093.7 | 2077.4 | 2072.5 |
| 42.5° | 6851.3 | 3597.5 | 2215.8 | 2139.3 | 2212.5 | 2123.0 | 2017.1 | 1961.7 | 1991.1 | 2004.1 |
| 45° | 6999.6 | 3276.6 | 2065.9 | 2072.5 | 2188.1 | 2061.2 | 1940.5 | 1886.7 | 1898.2 | 1901.4 |
| 47.5° | 7203.1 | 2885.4 | 1904.6 | 1965.0 | 2106.6 | 2018.8 | 1893.3 | 1816.7 | 1763.0 | 1738.5 |
| 50° | 7485.0 | 2422.8 | 1736.9 | 1844.4 | 2026.8 | 1987.8 | 1820.0 | 1738.5 | 1639.0 | 1616.3 |
| 52.5° | 7680.6 | 1991.1 | 1598.4 | 1743.4 | 1955.3 | 1925.8 | 1761.2 | 1655.3 | 1551.2 | 1531.5 |
| 55° | 7574.7 | 1653.8 | 1477.8 | 1631.0 | 1860.7 | 1849.3 | 1712.3 | 1570.6 | 1489.2 | 1473.0 |
| 57.5° | 7045.1 | 1440.3 | 1384.8 | 1525.1 | 1745.0 | 1784.2 | 1647.2 | 1498.9 | 1440.3 | 1428.9 |
| 60° | 6035.0 | 1306.8 | 1326.3 | 1453.4 | 1650.5 | 1718.9 | 1582.1 | 1459.8 | 1420.8 | 1412.7 |
| 62.5° | 4682.7 | 1217.2 | 1282.3 | 1401.1 | 1577.2 | 1673.4 | 1546.3 | 1455.0 | 1440.3 | 1430.6 |
| 65° | 3354.7 | 1145.3 | 1235.0 | 1349.1 | 1510.4 | 1631.0 | 1533.1 | 1448.4 | 1451.8 | 1443.5 |
| 67.5° | 2279.4 | 1081.9 | 1177.9 | 1290.4 | 1445.3 | 1593.5 | 1515.3 | 1425.6 | 1466.4 | 1456.6 |
| 70° | 1595.1 | 1019.9 | 1111.3 | 1215.4 | 1363.7 | 1541.3 | 1482.7 | 1391.5 | 1388.2 | 1349.1 |
| 72.5° | 1244.8 | 938.5 | 1019.9 | 1111.3 | 1259.5 | 1468.0 | 1417.4 | 1314.8 | 1261.1 | 1220.3 |
| 73° | 1187.7 | 919.0 | 997.2 | 1088.3 | 1236.6 | 1450.0 | 1399.6 | 1293.6 | 1233.5 | 1196.0 |
| 75° | 982.4 | 834.2 | 905.9 | 987.3 | 1139.0 | 1365.3 | 1311.5 | 1197.5 | 1120.9 | 1098.2 |
| 77.5° | 772.4 | 713.7 | 782.1 | 855.4 | 1003.6 | 1241.5 | 1181.2 | 1072.0 | 1029.7 | 1010.1 |
| 80° | 572.0 | 591.4 | 651.7 | 716.8 | 870.1 | 1109.5 | 1055.8 | 946.6 | 1135.6 | 1088.3 |
| 82.5° | 402.4 | 448.1 | 503.5 | 562.1 | 730.0 | 980.8 | 915.6 | 803.3 | 830.9 | 690.8 |
| 85° | 238.0 | 293.2 | 345.4 | 396.0 | 526.2 | 813.1 | 756.1 | 640.3 | 524.6 | 500.1 |
| 87.5° | 138.5 | 163.0 | 177.5 | 229.7 | 361.7 | 612.6 | 532.8 | 474.1 | 272.0 | 184.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)