

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: P192594

Luminaire Tested: **GAN-AF-06-LED-U-5NQ-7030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-06-LED-U-5NQ-7030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35516.9 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 333
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

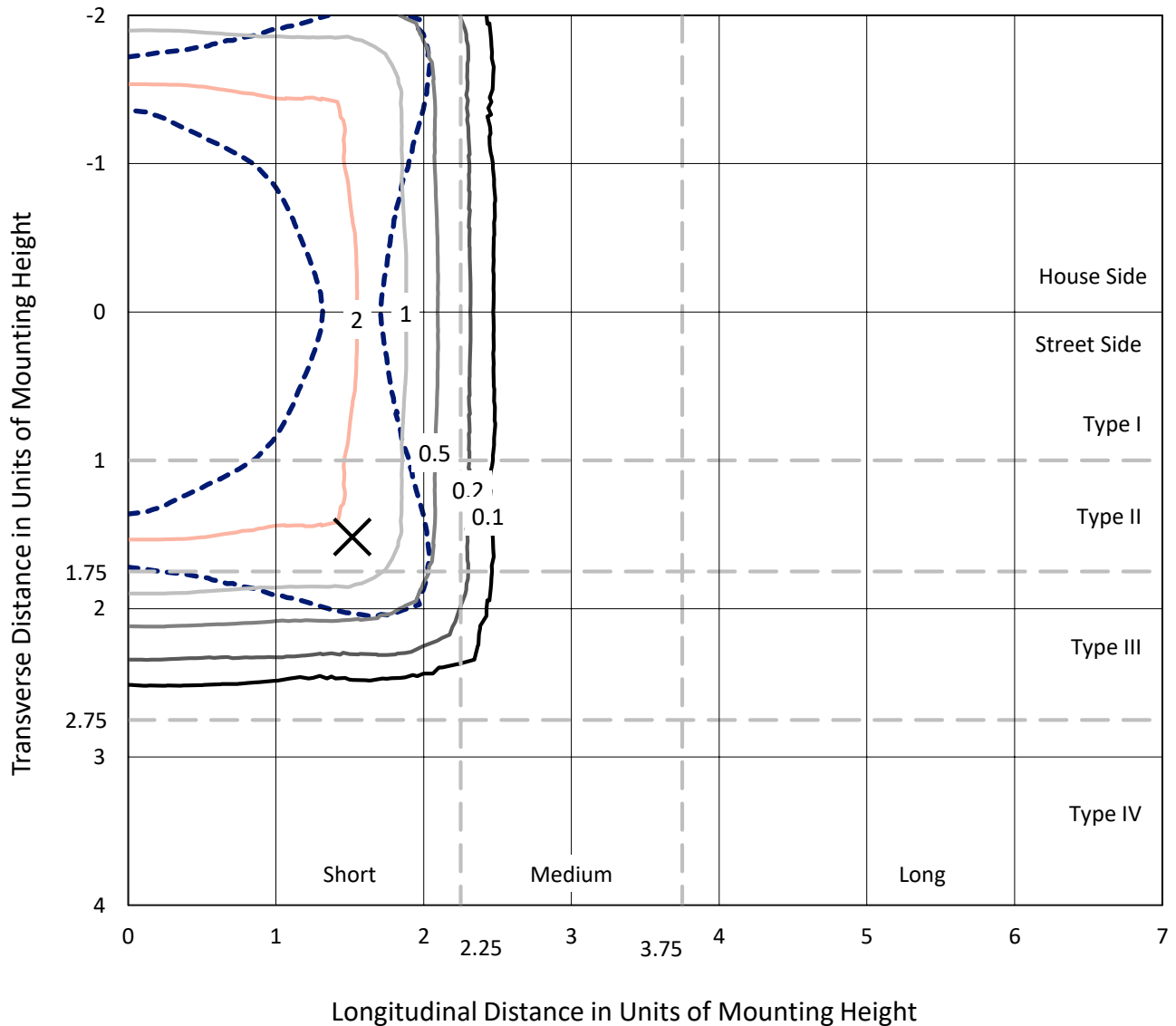


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

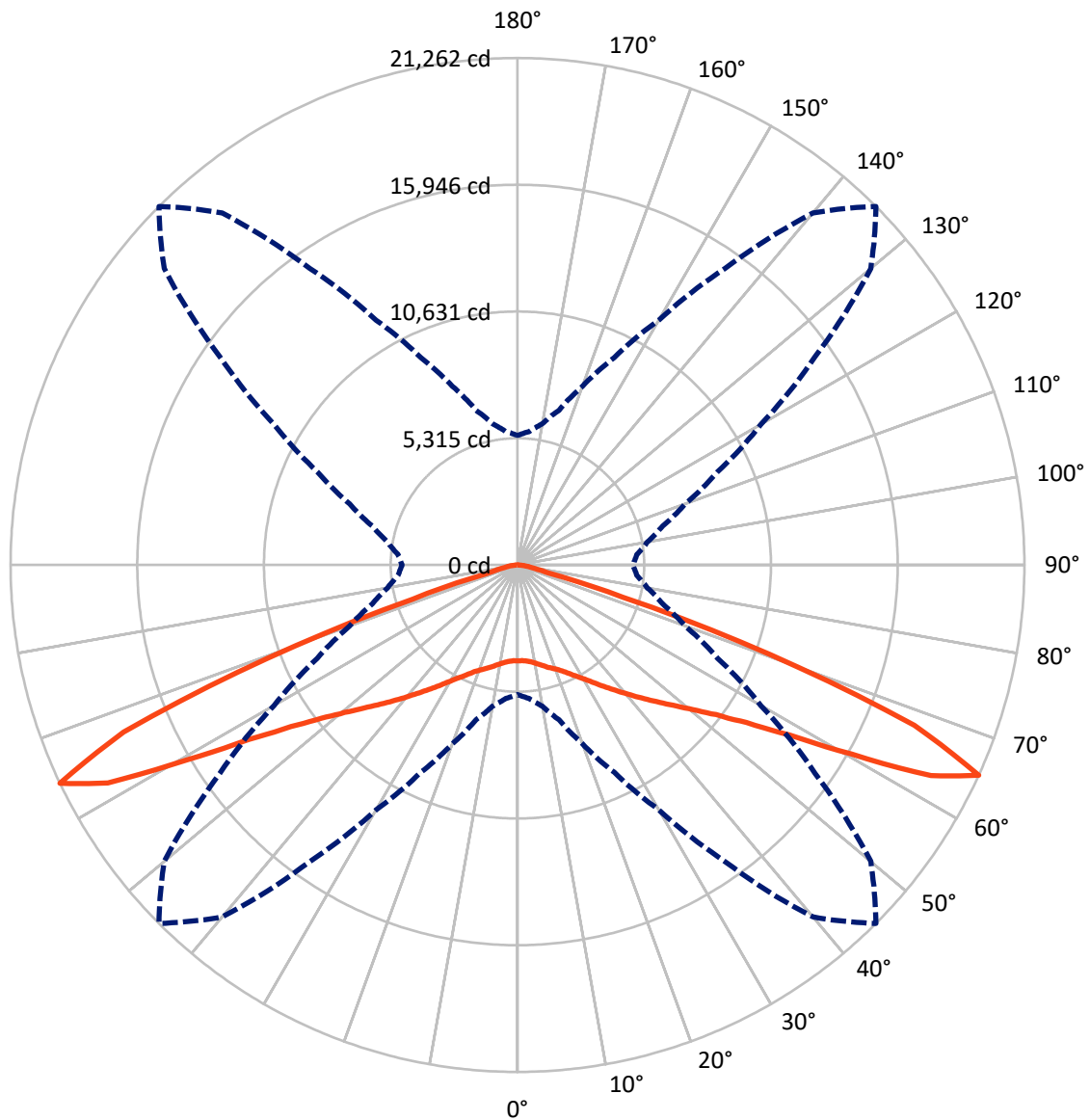


Based on 30 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17758.5 | 0.0 | 17758.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 17758.5 | 0.0 | 17758.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 35516.9 | 0.0 | 35516.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 391.7 | 1.1 |
| 10°-20° | 1256.2 | 3.5 |
| 20°-30° | 2349.0 | 6.6 |
| 30°-40° | 3972.7 | 11.2 |
| 40°-50° | 6495.8 | 18.3 |
| 50°-60° | 10329.4 | 29.1 |
| 60°-70° | 9337.1 | 26.3 |
| 70°-80° | 1181.7 | 3.3 |
| 80°-90° | 203.3 | 0.6 |
| 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° | 35516.9 | 100.0 |
| 0°-180° | 35516.9 | 100.0 |



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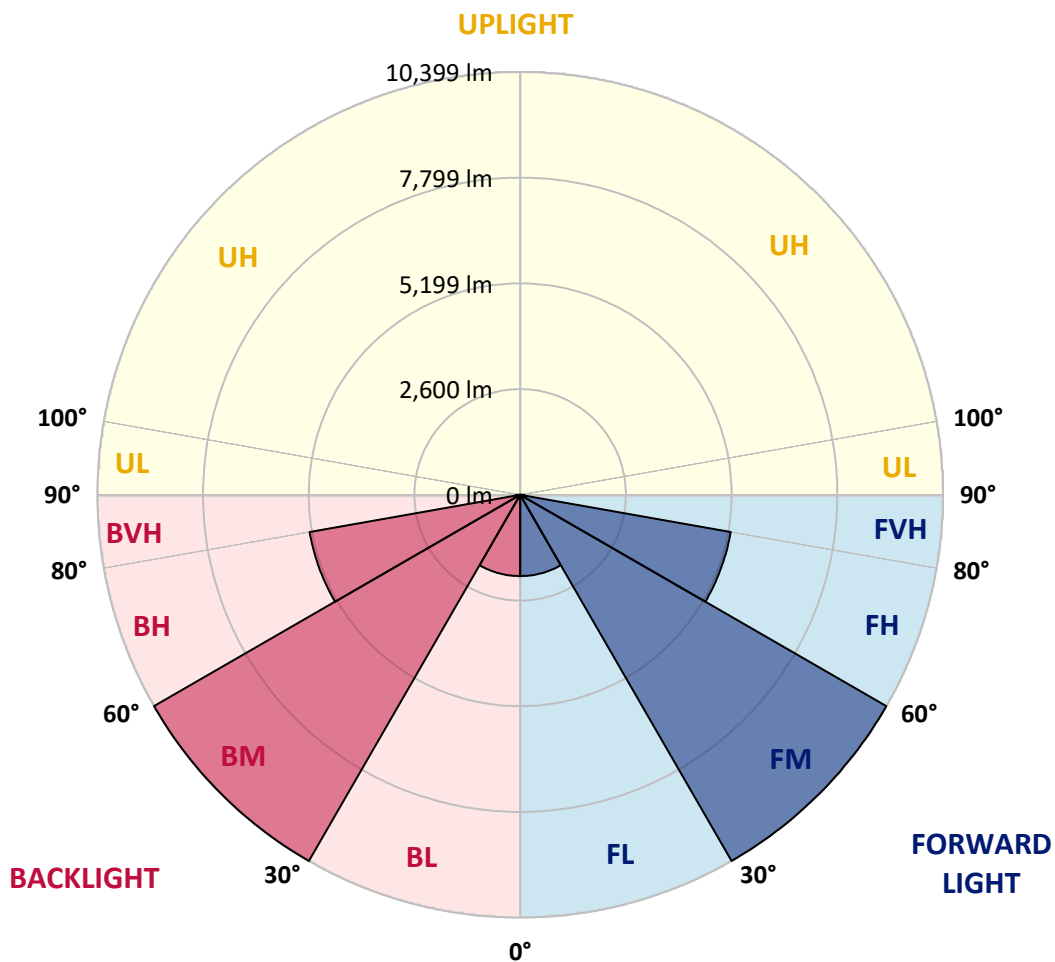
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1998.5 | 5.6 | | | |
| FM | (30°-60°) | 10399.0 | 29.3 | | | |
| FH | (60°-80°) | 5259.4 | 14.8 | | | G3/7500 |
| FVH | (80°-90°) | 101.6 | 0.3 | | | G2/225 |
| BL | (0°-30°) | 1998.5 | 5.6 | B3/2500 | | |
| BM | (30°-60°) | 10399.0 | 29.3 | B5 | | |
| BH | (60°-80°) | 5259.4 | 14.8 | B5 | | G3/7500 |
| BVH | (80°-90°) | 101.6 | 0.3 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4018.8 | 4018.8 | 4018.8 | 4018.8 | 4018.8 | 4018.8 | 4018.8 | 4018.8 | 4018.8 | 4018.8 | 4018.8 |
| 2.5° | 4022.1 | 4025.4 | 4028.7 | 4025.4 | 4028.7 | 4023.8 | 4020.4 | 4025.4 | 4020.4 | 4015.4 | 4018.8 |
| 5° | 4057.1 | 4058.7 | 4058.7 | 4053.7 | 4058.7 | 4055.3 | 4050.3 | 4057.1 | 4052.0 | 4047.1 | 4050.3 |
| 7.5° | 4115.2 | 4122.0 | 4116.9 | 4111.9 | 4115.2 | 4111.9 | 4108.5 | 4110.3 | 4108.5 | 4103.6 | 4105.3 |
| 10° | 4193.4 | 4198.4 | 4195.1 | 4193.4 | 4196.7 | 4195.1 | 4191.7 | 4190.1 | 4191.7 | 4186.7 | 4186.7 |
| 12.5° | 4288.2 | 4286.6 | 4284.9 | 4286.6 | 4291.6 | 4291.6 | 4289.8 | 4291.6 | 4294.9 | 4296.5 | 4293.3 |
| 15° | 4381.4 | 4384.7 | 4384.7 | 4384.7 | 4394.7 | 4403.0 | 4407.9 | 4411.4 | 4418.0 | 4419.6 | 4413.0 |
| 17.5° | 4497.7 | 4497.7 | 4496.1 | 4497.7 | 4507.8 | 4521.1 | 4526.1 | 4532.7 | 4539.4 | 4544.4 | 4536.1 |
| 20° | 4627.5 | 4630.9 | 4630.9 | 4634.2 | 4647.6 | 4662.5 | 4662.5 | 4665.8 | 4662.5 | 4665.8 | 4660.8 |
| 22.5° | 4785.5 | 4795.6 | 4795.6 | 4797.2 | 4810.5 | 4828.8 | 4823.8 | 4828.8 | 4820.5 | 4827.2 | 4820.5 |
| 25° | 4991.8 | 5006.8 | 5003.5 | 5003.5 | 5013.5 | 5025.2 | 5026.8 | 5036.8 | 5035.1 | 5043.4 | 5038.4 |
| 27.5° | 5224.7 | 5248.0 | 5254.6 | 5252.9 | 5259.6 | 5271.3 | 5274.6 | 5286.3 | 5279.6 | 5286.3 | 5282.9 |
| 30° | 5504.2 | 5514.1 | 5527.4 | 5532.5 | 5540.7 | 5552.4 | 5552.4 | 5554.0 | 5545.8 | 5555.8 | 5560.8 |
| 32.5° | 5793.6 | 5811.9 | 5825.1 | 5855.1 | 5870.1 | 5878.4 | 5876.7 | 5880.2 | 5871.8 | 5885.0 | 5895.1 |
| 35° | 6176.2 | 6189.5 | 6211.1 | 6234.5 | 6254.3 | 6252.7 | 6247.7 | 6249.4 | 6249.4 | 6261.0 | 6271.1 |
| 37.5° | 6637.0 | 6640.2 | 6668.5 | 6701.9 | 6711.8 | 6701.9 | 6671.9 | 6665.3 | 6650.3 | 6665.3 | 6681.9 |
| 40° | 7124.4 | 7135.9 | 7192.5 | 7214.2 | 7219.1 | 7200.8 | 7157.6 | 7132.7 | 7099.3 | 7117.7 | 7140.9 |
| 42.5° | 7634.9 | 7658.3 | 7709.9 | 7748.1 | 7764.7 | 7753.0 | 7693.2 | 7654.9 | 7611.6 | 7621.7 | 7645.0 |
| 45° | 8200.6 | 8228.8 | 8301.9 | 8338.5 | 8370.3 | 8351.9 | 8293.7 | 8235.4 | 8167.2 | 8172.3 | 8208.8 |
| 47.5° | 8832.6 | 8860.9 | 8955.7 | 9017.2 | 9033.9 | 9030.6 | 8965.7 | 8885.8 | 8792.7 | 8789.4 | 8820.9 |
| 50° | 9541.2 | 9569.5 | 9687.6 | 9782.4 | 9830.6 | 9825.6 | 9749.1 | 9636.0 | 9522.9 | 9524.5 | 9564.5 |
| 52.5° | 10233.2 | 10268.0 | 10391.2 | 10554.2 | 10649.1 | 10717.2 | 10670.7 | 10564.2 | 10426.2 | 10429.5 | 10466.1 |
| 55° | 10881.9 | 10940.1 | 11081.5 | 11302.8 | 11479.1 | 11670.4 | 11725.2 | 11721.9 | 11638.8 | 11662.0 | 11698.6 |
| 57.5° | 11196.4 | 11282.7 | 11500.7 | 11850.0 | 12209.2 | 12598.5 | 12927.9 | 13174.1 | 13278.9 | 13436.9 | 13400.3 |
| 60° | 10600.8 | 10738.9 | 11059.9 | 11573.9 | 12284.1 | 13096.0 | 13965.8 | 14815.9 | 15541.0 | 16088.3 | 15774.0 |
| 62.5° | 8679.5 | 8859.2 | 9248.5 | 9907.2 | 10981.7 | 12280.8 | 13945.9 | 15955.2 | 18144.2 | 19465.0 | 18521.8 |
| 65° | 5430.9 | 5617.2 | 6013.2 | 6718.5 | 7975.9 | 9591.1 | 11850.0 | 15180.2 | 19270.4 | 21261.6 | 19341.9 |
| 67.5° | 2117.6 | 2218.9 | 2433.5 | 2884.3 | 3829.1 | 5266.3 | 7533.5 | 11312.7 | 16204.8 | 17949.6 | 15903.7 |
| 70° | 1061.2 | 1071.2 | 1111.1 | 1194.3 | 1397.2 | 1814.8 | 2761.2 | 5244.7 | 9293.4 | 11224.5 | 8959.0 |
| 72.5° | 766.8 | 768.5 | 788.5 | 825.0 | 889.9 | 983.2 | 1162.7 | 1605.1 | 3022.4 | 4619.3 | 2832.8 |
| 75° | 587.2 | 593.9 | 605.6 | 625.4 | 660.4 | 706.9 | 771.8 | 924.9 | 1146.1 | 1329.0 | 1117.8 |
| 77.5° | 452.5 | 465.8 | 474.0 | 492.3 | 513.9 | 545.6 | 563.9 | 622.1 | 723.7 | 761.9 | 750.2 |
| 80° | 344.2 | 355.9 | 374.2 | 389.2 | 404.2 | 419.2 | 412.6 | 439.1 | 492.3 | 524.0 | 507.3 |
| 82.5° | 219.6 | 232.8 | 286.2 | 299.4 | 306.0 | 316.1 | 304.4 | 306.0 | 329.3 | 349.3 | 329.3 |
| 85° | 141.4 | 149.6 | 181.3 | 198.0 | 199.6 | 206.3 | 201.2 | 189.7 | 189.7 | 172.9 | 194.6 |
| 87.5° | 64.9 | 66.5 | 81.5 | 96.4 | 99.8 | 89.8 | 88.2 | 84.7 | 68.2 | 64.9 | 69.8 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4018.8 | 4018.8 | 4018.8 | 4018.8 | 4018.8 | 4018.8 | 4018.8 | 4018.8 |
| 2.5° | 4017.1 | 4020.4 | 4022.1 | 4027.1 | 4028.7 | 4028.7 | 4030.3 | 4033.8 |
| 5° | 4048.7 | 4053.7 | 4055.3 | 4062.0 | 4063.7 | 4062.0 | 4065.3 | 4066.9 |
| 7.5° | 4105.3 | 4113.6 | 4116.9 | 4123.6 | 4118.5 | 4125.2 | 4126.8 | 4126.8 |
| 10° | 4188.5 | 4196.7 | 4198.4 | 4205.1 | 4201.8 | 4205.1 | 4205.1 | 4201.8 |
| 12.5° | 4298.3 | 4299.9 | 4294.9 | 4299.9 | 4293.3 | 4296.5 | 4291.6 | 4288.2 |
| 15° | 4419.6 | 4414.6 | 4403.0 | 4403.0 | 4393.0 | 4394.7 | 4393.0 | 4391.3 |
| 17.5° | 4537.7 | 4527.7 | 4519.4 | 4516.1 | 4507.8 | 4506.2 | 4501.2 | 4501.2 |
| 20° | 4667.4 | 4662.5 | 4657.5 | 4650.8 | 4642.5 | 4634.2 | 4632.6 | 4635.9 |
| 22.5° | 4823.8 | 4822.1 | 4822.1 | 4818.9 | 4807.2 | 4798.8 | 4793.9 | 4793.9 |
| 25° | 5033.5 | 5018.5 | 5018.5 | 5016.7 | 5011.8 | 5006.8 | 4996.9 | 5001.8 |
| 27.5° | 5269.6 | 5261.3 | 5267.9 | 5266.3 | 5261.3 | 5261.3 | 5254.6 | 5254.6 |
| 30° | 5560.8 | 5557.4 | 5567.5 | 5559.1 | 5542.4 | 5540.7 | 5534.1 | 5525.8 |
| 32.5° | 5896.7 | 5893.5 | 5908.4 | 5898.4 | 5871.8 | 5856.9 | 5843.5 | 5836.8 |
| 35° | 6271.1 | 6272.7 | 6290.9 | 6284.3 | 6254.3 | 6244.3 | 6221.1 | 6217.7 |
| 37.5° | 6680.2 | 6706.8 | 6738.4 | 6745.0 | 6720.1 | 6713.4 | 6688.6 | 6675.2 |
| 40° | 7160.9 | 7195.9 | 7244.1 | 7255.7 | 7229.1 | 7224.1 | 7189.2 | 7170.9 |
| 42.5° | 7673.3 | 7733.2 | 7793.0 | 7803.0 | 7776.3 | 7749.8 | 7716.4 | 7703.3 |
| 45° | 8245.5 | 8317.0 | 8395.2 | 8415.1 | 8375.2 | 8343.6 | 8300.3 | 8300.3 |
| 47.5° | 8887.4 | 8977.3 | 9065.5 | 9120.4 | 9083.9 | 9050.5 | 8998.9 | 8965.7 |
| 50° | 9646.1 | 9769.1 | 9883.9 | 9940.4 | 9882.2 | 9819.0 | 9729.2 | 9699.3 |
| 52.5° | 10597.5 | 10730.6 | 10830.4 | 10800.4 | 10710.5 | 10622.4 | 10524.3 | 10484.4 |
| 55° | 11811.8 | 11856.7 | 11856.7 | 11743.5 | 11563.9 | 11415.9 | 11261.2 | 11209.6 |
| 57.5° | 13330.4 | 13157.4 | 12891.3 | 12553.7 | 12129.4 | 11760.2 | 11510.7 | 11392.6 |
| 60° | 15115.3 | 14283.6 | 13343.8 | 12420.6 | 11662.0 | 11036.6 | 10665.7 | 10496.0 |
| 62.5° | 16304.5 | 14128.9 | 12245.9 | 10763.7 | 9672.6 | 8919.2 | 8406.7 | 8207.2 |
| 65° | 15238.4 | 11783.5 | 9261.8 | 7488.6 | 6299.3 | 5532.5 | 5025.2 | 4838.8 |
| 67.5° | 11161.4 | 7383.8 | 4932.0 | 3534.7 | 2589.9 | 2066.0 | 1858.1 | 1771.5 |
| 70° | 5010.2 | 2600.0 | 1593.5 | 1244.3 | 1072.9 | 984.8 | 946.5 | 933.2 |
| 72.5° | 1510.4 | 1092.8 | 921.5 | 831.7 | 763.5 | 720.2 | 688.7 | 685.3 |
| 75° | 911.6 | 758.5 | 673.7 | 620.5 | 577.2 | 542.3 | 525.6 | 520.6 |
| 77.5° | 637.1 | 557.2 | 517.4 | 479.1 | 445.8 | 419.2 | 404.2 | 392.6 |
| 80° | 447.4 | 409.1 | 390.9 | 369.3 | 347.7 | 322.8 | 301.1 | 291.0 |
| 82.5° | 299.4 | 291.0 | 291.0 | 277.7 | 259.5 | 236.2 | 193.0 | 183.0 |
| 85° | 193.0 | 191.3 | 194.6 | 189.7 | 176.4 | 151.4 | 124.8 | 118.1 |
| 87.5° | 89.8 | 91.4 | 101.5 | 99.8 | 96.4 | 79.9 | 63.3 | 59.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)