

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: P192778

Luminaire Tested: **GAN-AF-10-LED-U-SL2-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31097.4 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

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

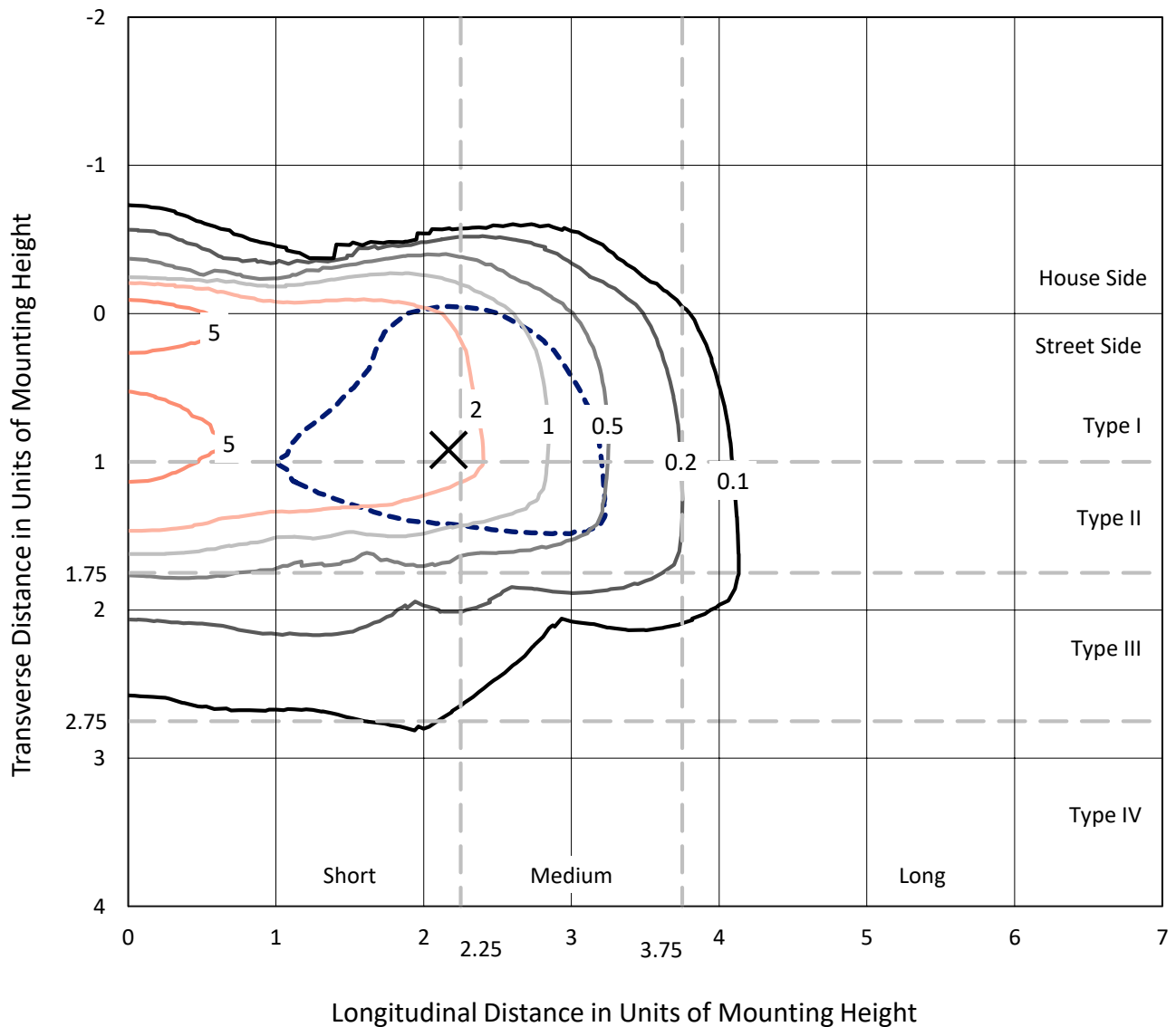


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

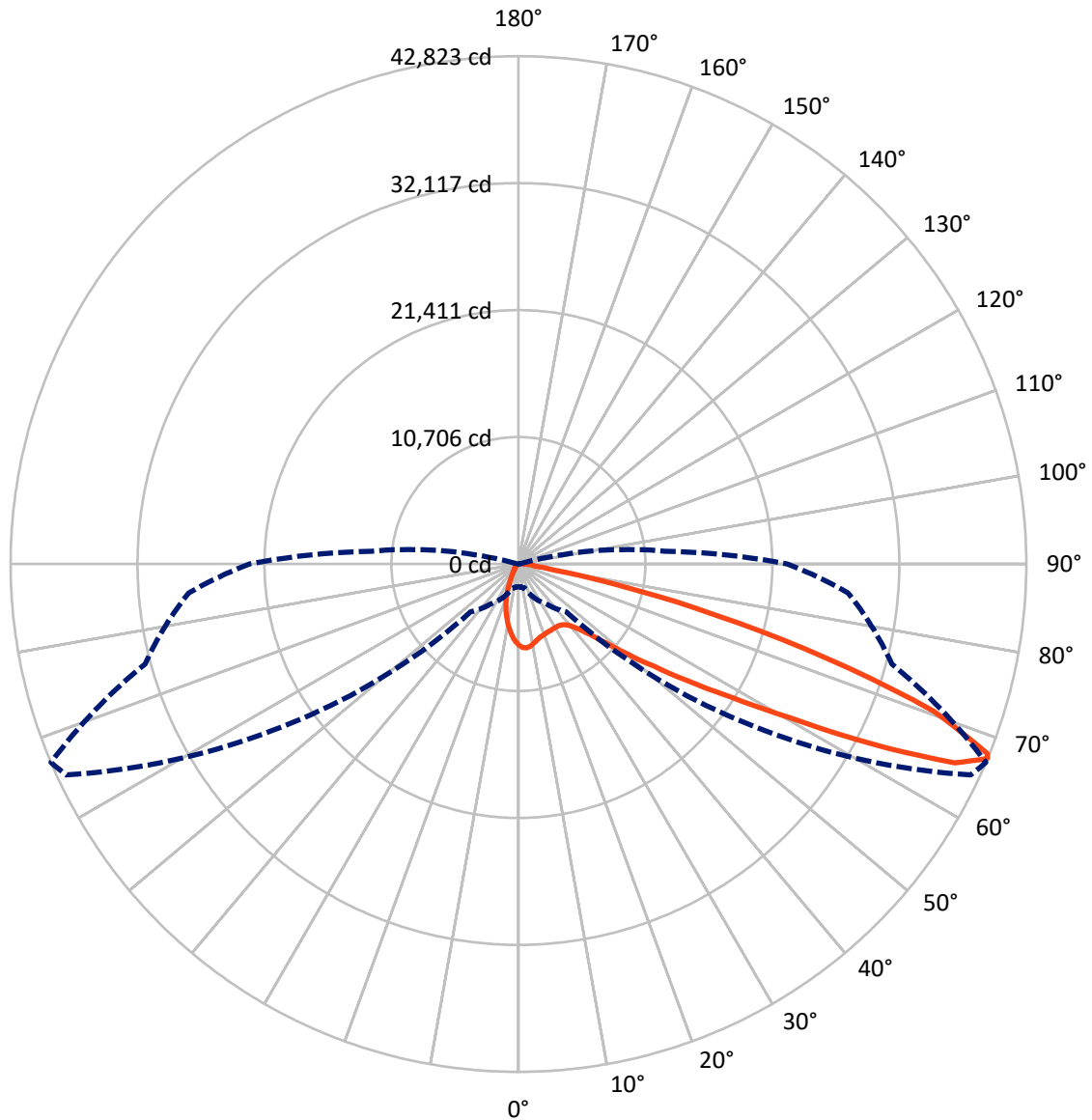


Based on 30 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3228.8 | 0.0 | 3228.8 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 27868.5 | 0.0 | 27868.5 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 31097.4 | 0.0 | 31097.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 558.0 | 1.8 |
| 10°-20° | 1187.7 | 3.8 |
| 20°-30° | 1726.8 | 5.6 |
| 30°-40° | 2693.9 | 8.7 |
| 40°-50° | 4772.1 | 15.3 |
| 50°-60° | 7551.4 | 24.3 |
| 60°-70° | 8649.1 | 27.8 |
| 70°-80° | 3587.6 | 11.5 |
| 80°-90° | 370.6 | 1.2 |
| 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° | 31097.4 | 100.0 |
| 0°-180° | 31097.4 | 100.0 |



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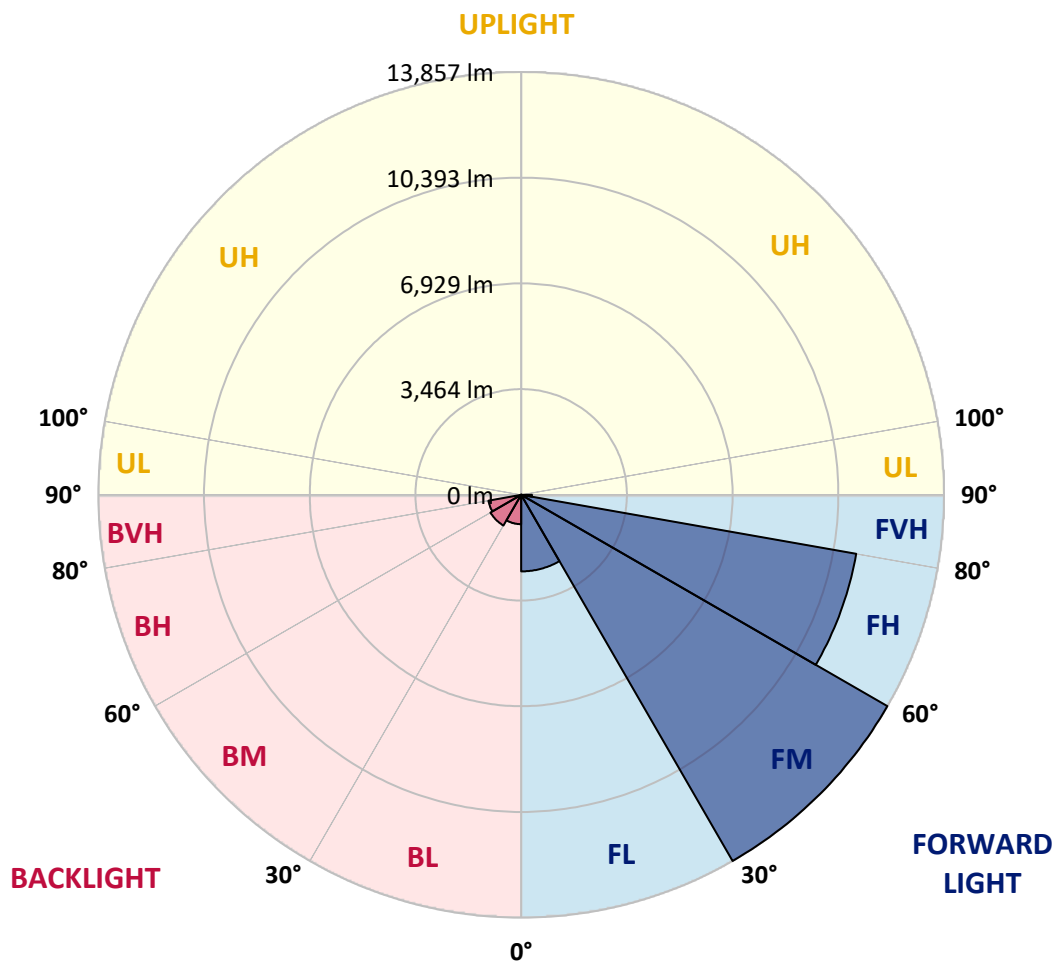
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2509.1 | 8.1 | | | |
| FM (30°-60°) | 13857.1 | 44.6 | | | |
| FH (60°-80°) | 11148.5 | 35.9 | | | G4/12000 |
| FVH (80°-90°) | 353.9 | 1.1 | | | G3/500 |
| BL (0°-30°) | 963.5 | 3.1 | B2/1000 | | |
| BM (30°-60°) | 1160.4 | 3.7 | B2/2500 | | |
| BH (60°-80°) | 1088.2 | 3.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 16.7 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6858.1 | 6858.1 | 6858.1 | 6858.1 | 6858.1 | 6858.1 | 6858.1 | 6858.1 | 6858.1 | 6858.1 | 6858.1 |
| 2.5° | 7090.3 | 7104.8 | 7103.0 | 7113.9 | 7139.2 | 7141.0 | 7115.7 | 7066.7 | 7055.9 | 6992.4 | 6881.7 |
| 5° | 6538.8 | 6580.5 | 6606.1 | 6709.4 | 6825.4 | 6965.2 | 7070.3 | 7108.4 | 7103.0 | 7057.6 | 6890.8 |
| 7.5° | 5909.5 | 5951.3 | 5980.2 | 6101.8 | 6255.9 | 6495.4 | 6769.2 | 6994.1 | 7014.1 | 7063.1 | 6883.6 |
| 10° | 5490.5 | 5497.7 | 5537.7 | 5653.7 | 5815.3 | 6060.1 | 6386.5 | 6780.1 | 6839.9 | 7019.6 | 6865.5 |
| 12.5° | 5145.9 | 5151.2 | 5203.9 | 5329.0 | 5501.4 | 5748.0 | 6090.8 | 6546.2 | 6638.6 | 6965.2 | 6861.7 |
| 15° | 4901.1 | 4920.9 | 4968.1 | 5098.7 | 5281.9 | 5526.8 | 5878.7 | 6373.8 | 6484.4 | 6945.2 | 6894.4 |
| 17.5° | 4819.3 | 4841.2 | 4855.6 | 4950.0 | 5116.8 | 5356.2 | 5717.2 | 6261.3 | 6386.5 | 6956.1 | 6957.8 |
| 20° | 4904.6 | 4920.9 | 4888.3 | 4911.9 | 5015.2 | 5229.2 | 5581.2 | 6165.3 | 6314.0 | 6968.8 | 7039.5 |
| 22.5° | 5222.0 | 5229.2 | 5140.4 | 5037.1 | 5019.0 | 5136.9 | 5474.1 | 6089.0 | 6248.6 | 7003.2 | 7135.6 |
| 25° | 5766.1 | 5753.5 | 5608.4 | 5385.3 | 5174.8 | 5120.4 | 5410.6 | 6041.9 | 6216.0 | 7039.5 | 7235.3 |
| 27.5° | 6422.8 | 6441.0 | 6241.4 | 5916.7 | 5515.9 | 5229.2 | 5401.6 | 6022.0 | 6201.5 | 7064.9 | 7322.4 |
| 30° | 7220.8 | 7246.3 | 7017.7 | 6609.6 | 6034.6 | 5497.7 | 5485.1 | 6018.3 | 6192.5 | 7048.6 | 7329.7 |
| 32.5° | 8035.3 | 8066.2 | 7886.6 | 7465.8 | 6727.5 | 5947.5 | 5673.8 | 6058.2 | 6210.7 | 6992.4 | 7288.0 |
| 35° | 8887.8 | 8931.3 | 8811.6 | 8450.6 | 7667.0 | 6597.0 | 6005.7 | 6179.7 | 6295.8 | 6986.9 | 7246.3 |
| 37.5° | 10065.0 | 10104.9 | 9880.0 | 9497.3 | 8804.3 | 7467.6 | 6538.8 | 6408.3 | 6497.2 | 7074.0 | 7257.1 |
| 40° | 11822.6 | 11817.2 | 11236.8 | 10650.8 | 10054.1 | 8574.0 | 7288.0 | 6821.8 | 6867.2 | 7337.0 | 7391.4 |
| 42.5° | 13738.0 | 13729.0 | 12871.0 | 11980.4 | 11441.7 | 9936.1 | 8272.9 | 7536.4 | 7505.7 | 7821.3 | 7739.6 |
| 45° | 15214.5 | 15212.6 | 14512.5 | 13509.5 | 13112.2 | 11499.7 | 9546.2 | 8530.5 | 8483.3 | 8608.4 | 8381.8 |
| 47.5° | 15843.9 | 15854.7 | 15502.9 | 14797.3 | 14964.1 | 13614.7 | 11151.4 | 9970.7 | 9899.9 | 9849.1 | 9504.5 |
| 50° | 15354.1 | 15375.9 | 15404.9 | 15267.1 | 16322.7 | 16456.9 | 13304.5 | 12000.4 | 11965.8 | 11739.2 | 11200.5 |
| 52.5° | 13754.3 | 13865.0 | 14206.0 | 14643.2 | 16794.4 | 19185.0 | 16680.1 | 14521.5 | 14336.6 | 14095.3 | 13502.1 |
| 55° | 11059.0 | 11180.5 | 11828.1 | 12889.1 | 16092.4 | 20977.0 | 21410.6 | 17772.0 | 17463.7 | 16743.6 | 15887.4 |
| 57.5° | 7318.8 | 7507.4 | 8447.1 | 9796.5 | 14053.6 | 21265.4 | 26130.1 | 22283.0 | 21209.2 | 19237.6 | 18272.6 |
| 60° | 4032.2 | 4213.6 | 5233.0 | 6455.5 | 10150.1 | 19839.8 | 29304.3 | 28156.2 | 26259.0 | 22025.5 | 21169.3 |
| 62.5° | 2483.1 | 2581.1 | 3333.8 | 4471.1 | 6087.3 | 15658.8 | 29961.0 | 35536.7 | 33340.1 | 25615.0 | 24668.2 |
| 65° | 1977.0 | 2018.8 | 2387.0 | 3654.8 | 4364.2 | 9314.1 | 27840.6 | 41163.2 | 40430.4 | 29961.0 | 27800.7 |
| 67° | 1919.0 | 1935.4 | 2109.5 | 3137.9 | 4113.8 | 5710.0 | 23324.1 | 42079.2 | 42822.8 | 32591.1 | 27898.6 |
| 67.5° | 1931.7 | 1949.8 | 2114.9 | 2994.7 | 4106.5 | 5247.4 | 21767.8 | 41718.3 | 42657.9 | 32799.6 | 27465.1 |
| 70° | 1862.8 | 1919.0 | 2421.5 | 2992.8 | 3905.2 | 4360.4 | 13036.0 | 36146.1 | 37123.8 | 30476.1 | 23304.2 |
| 72.5° | 660.3 | 663.9 | 1046.6 | 2421.5 | 4246.2 | 4407.6 | 6546.2 | 26498.3 | 27222.1 | 23313.3 | 16801.6 |
| 75° | 391.8 | 333.8 | 348.2 | 689.2 | 4057.6 | 4280.7 | 3776.4 | 16932.1 | 17202.5 | 13358.9 | 8508.7 |
| 77.5° | 270.3 | 235.8 | 243.1 | 304.8 | 1545.4 | 4220.8 | 3000.0 | 8829.8 | 8541.4 | 4685.1 | 1812.1 |
| 80° | 154.2 | 136.0 | 145.1 | 266.6 | 562.2 | 3937.8 | 2829.6 | 3580.5 | 3052.7 | 794.5 | 500.6 |
| 82.5° | 81.6 | 69.0 | 83.5 | 219.5 | 391.8 | 2454.1 | 2835.1 | 1730.4 | 1371.3 | 268.4 | 341.0 |
| 85° | 29.1 | 23.6 | 39.9 | 150.6 | 261.2 | 752.8 | 2628.2 | 1454.7 | 1142.8 | 130.6 | 259.4 |
| 87.5° | 5.5 | 5.5 | 16.3 | 61.6 | 105.2 | 230.3 | 1554.4 | 863.3 | 578.6 | 78.0 | 177.8 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6858.1 | 6858.1 | 6858.1 | 6858.1 | 6858.1 | 6858.1 | 6858.1 | 6858.1 | 6858.1 | 6858.1 | 6858.1 |
| 2.5° | 6836.4 | 6758.3 | 6653.2 | 6524.4 | 6372.0 | 6237.8 | 6138.0 | 6034.6 | 6012.9 | 5976.6 | 5971.1 |
| 5° | 6791.0 | 6656.7 | 6395.6 | 6096.3 | 5777.1 | 5488.6 | 5254.8 | 5046.1 | 4953.6 | 4873.7 | 4864.7 |
| 7.5° | 6724.0 | 6522.6 | 6078.2 | 5595.7 | 5096.8 | 4643.4 | 4258.9 | 3986.8 | 3736.5 | 3616.8 | 3598.7 |
| 10° | 6645.9 | 6357.5 | 5720.9 | 5051.5 | 4362.2 | 3722.0 | 3150.6 | 2671.8 | 2381.6 | 2209.2 | 2187.5 |
| 12.5° | 6573.4 | 6196.1 | 5356.2 | 4487.4 | 3571.4 | 2715.3 | 1980.8 | 1523.6 | 1218.9 | 1095.6 | 1081.0 |
| 15° | 6538.8 | 6065.4 | 5015.2 | 3910.6 | 2744.4 | 1728.6 | 1082.9 | 838.0 | 738.3 | 709.2 | 707.4 |
| 17.5° | 6535.3 | 5954.8 | 4681.5 | 3313.9 | 1922.6 | 1004.8 | 705.6 | 643.9 | 624.0 | 616.7 | 616.7 |
| 20° | 6533.4 | 5849.6 | 4347.8 | 2695.3 | 1220.8 | 669.3 | 587.7 | 573.2 | 558.7 | 549.6 | 549.6 |
| 22.5° | 6553.4 | 5755.3 | 3999.6 | 2064.1 | 769.0 | 542.4 | 516.9 | 502.5 | 484.3 | 471.6 | 469.9 |
| 25° | 6573.4 | 5682.8 | 3644.1 | 1469.2 | 556.9 | 471.6 | 446.3 | 426.2 | 400.9 | 384.5 | 382.7 |
| 27.5° | 6577.0 | 5592.1 | 3263.1 | 983.2 | 466.2 | 411.7 | 379.1 | 348.2 | 319.2 | 302.8 | 301.1 |
| 30° | 6522.6 | 5439.7 | 2840.5 | 663.9 | 411.7 | 357.3 | 313.8 | 281.2 | 253.9 | 241.3 | 241.3 |
| 32.5° | 6415.6 | 5251.1 | 2376.2 | 500.6 | 366.3 | 306.6 | 259.4 | 228.6 | 210.5 | 205.0 | 203.1 |
| 35° | 6319.4 | 5047.9 | 1899.0 | 424.5 | 328.4 | 259.4 | 212.2 | 192.3 | 181.4 | 179.6 | 177.8 |
| 37.5° | 6263.2 | 4884.7 | 1451.1 | 384.5 | 292.0 | 217.7 | 179.6 | 165.1 | 159.6 | 156.0 | 157.8 |
| 40° | 6306.7 | 4748.6 | 1072.0 | 352.0 | 255.7 | 181.4 | 152.4 | 145.1 | 139.7 | 137.8 | 137.8 |
| 42.5° | 6497.2 | 4725.0 | 796.3 | 322.9 | 221.2 | 150.6 | 132.4 | 127.0 | 123.4 | 121.5 | 123.4 |
| 45° | 6997.8 | 4870.1 | 618.5 | 295.6 | 186.9 | 127.0 | 112.4 | 110.7 | 108.8 | 108.8 | 108.8 |
| 47.5° | 7750.6 | 5169.4 | 515.1 | 264.9 | 156.0 | 108.8 | 97.9 | 96.1 | 94.3 | 96.1 | 96.1 |
| 50° | 9025.7 | 5717.2 | 460.7 | 234.1 | 128.8 | 92.6 | 83.5 | 83.5 | 83.5 | 83.5 | 85.2 |
| 52.5° | 10964.6 | 6794.7 | 424.5 | 203.1 | 105.2 | 78.0 | 70.7 | 70.7 | 72.5 | 72.5 | 74.4 |
| 55° | 13124.9 | 8224.0 | 391.8 | 172.3 | 88.8 | 65.3 | 58.0 | 59.9 | 61.6 | 63.5 | 63.5 |
| 57.5° | 15468.4 | 9807.4 | 364.6 | 141.5 | 76.2 | 52.6 | 48.9 | 50.8 | 52.6 | 56.3 | 56.3 |
| 60° | 18296.2 | 11521.5 | 324.7 | 110.7 | 63.5 | 41.7 | 38.1 | 41.7 | 47.2 | 50.8 | 52.6 |
| 62.5° | 21401.4 | 13179.3 | 273.9 | 87.1 | 52.6 | 32.7 | 30.8 | 38.1 | 45.4 | 48.9 | 50.8 |
| 65° | 23523.6 | 13699.9 | 210.5 | 70.7 | 39.9 | 23.6 | 25.3 | 34.4 | 43.4 | 48.9 | 48.9 |
| 67° | 22663.8 | 12421.1 | 172.3 | 59.9 | 32.7 | 18.1 | 23.6 | 34.4 | 43.4 | 47.2 | 48.9 |
| 67.5° | 22067.1 | 11920.5 | 165.1 | 58.0 | 30.8 | 18.1 | 23.6 | 34.4 | 43.4 | 48.9 | 48.9 |
| 70° | 17955.1 | 8954.9 | 137.8 | 43.4 | 25.3 | 16.3 | 20.0 | 32.7 | 41.7 | 47.2 | 47.2 |
| 72.5° | 12475.6 | 5521.3 | 123.4 | 30.8 | 21.8 | 14.5 | 18.1 | 30.8 | 39.9 | 45.4 | 47.2 |
| 75° | 5931.2 | 1998.9 | 105.2 | 23.6 | 20.0 | 12.7 | 16.3 | 30.8 | 39.9 | 45.4 | 45.4 |
| 77.5° | 1209.8 | 464.4 | 85.2 | 20.0 | 16.3 | 12.7 | 14.5 | 29.1 | 38.1 | 43.4 | 43.4 |
| 80° | 397.2 | 179.6 | 63.5 | 18.1 | 16.3 | 12.7 | 14.5 | 27.2 | 38.1 | 41.7 | 43.4 |
| 82.5° | 286.6 | 90.6 | 41.7 | 18.1 | 16.3 | 12.7 | 12.7 | 27.2 | 36.3 | 41.7 | 41.7 |
| 85° | 219.5 | 63.5 | 27.2 | 18.1 | 16.3 | 12.7 | 12.7 | 25.3 | 34.4 | 39.9 | 39.9 |
| 87.5° | 145.1 | 25.3 | 21.8 | 18.1 | 16.3 | 12.7 | 12.7 | 25.3 | 32.7 | 38.1 | 39.9 |
| 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)