

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: P192684

Luminaire Tested: **GAN-AF-06-LED-U-AFL-7030-1200-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
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-AFL-7030-1200-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30920.4 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 382
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

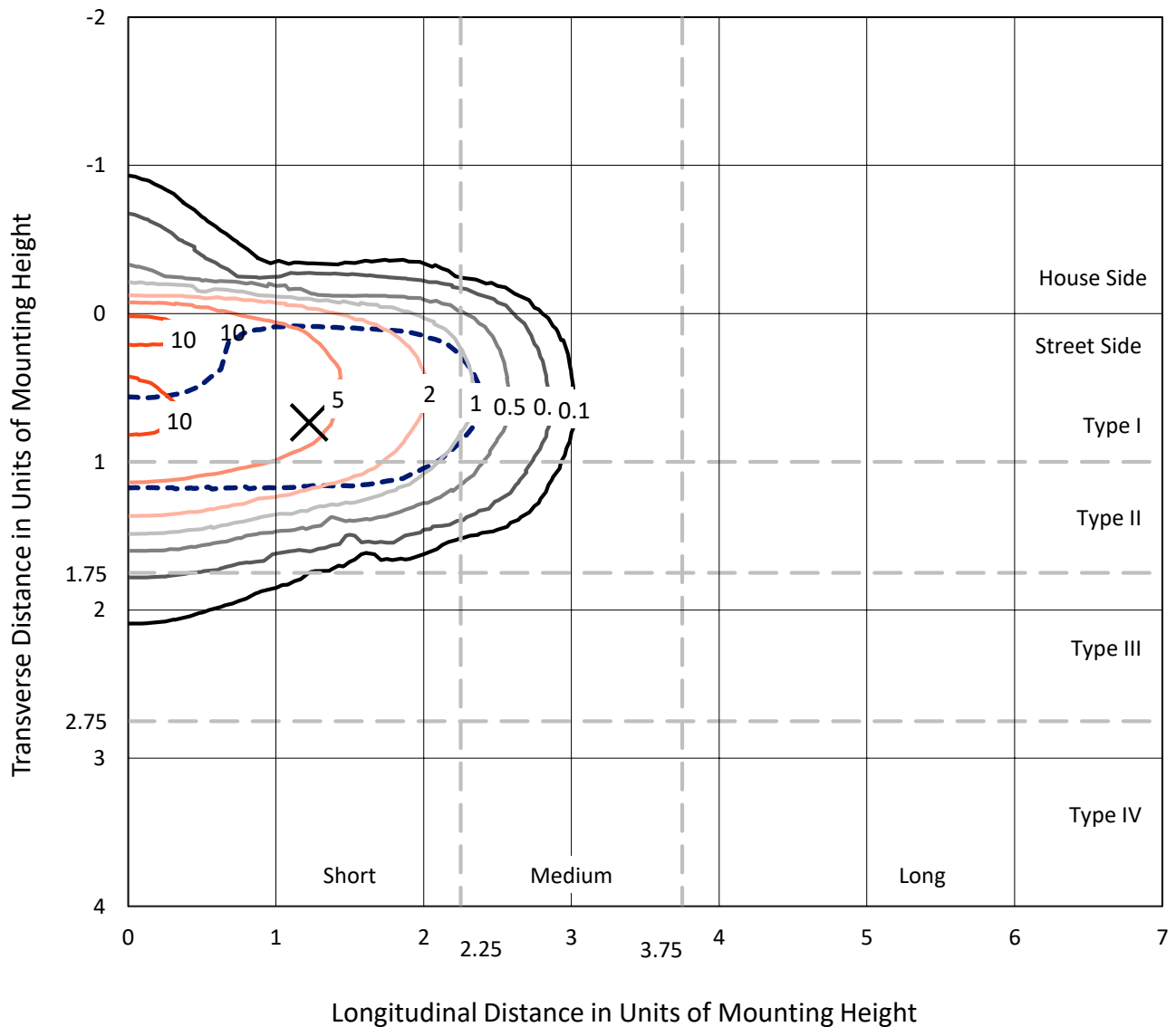


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

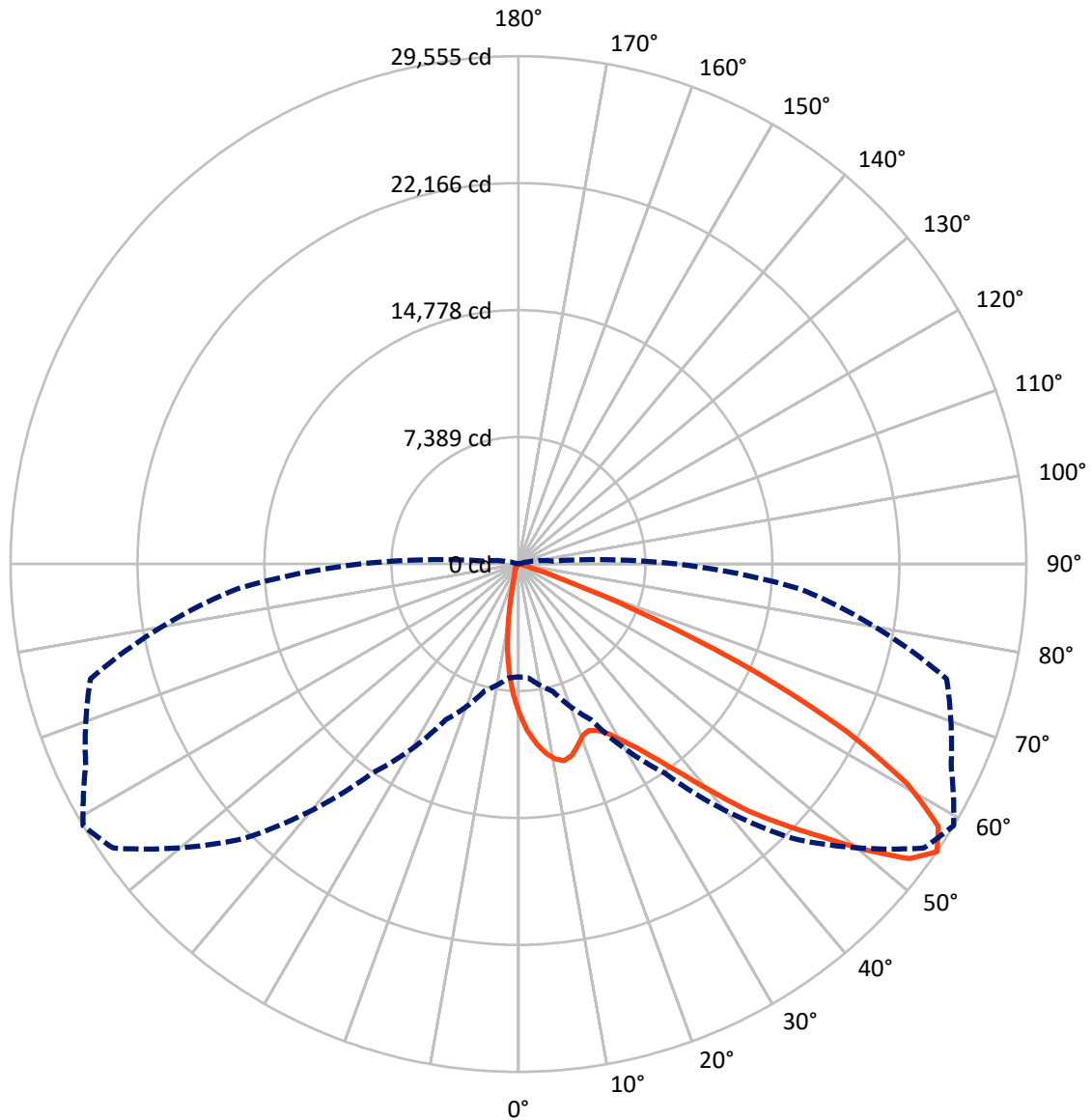


Based on 30 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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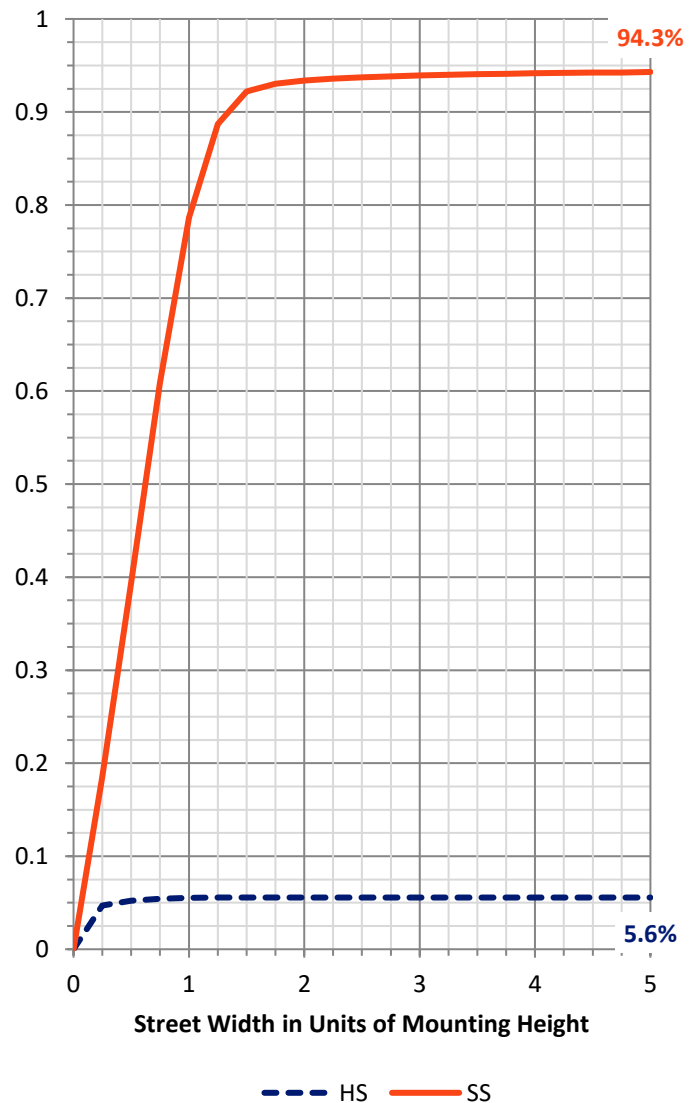
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1727.1 | 0.0 | 1727.1 |
| | % Fixture | 5.6 | 0.0 | 5.6 |
| Street Side | Lumens | 29193.3 | 0.0 | 29193.3 |
| | % Fixture | 94.4 | 0.0 | 94.4 |
| Total | Lumens | 30920.4 | 0.0 | 30920.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 729.0 | 2.4 |
| 10°-20° | 1745.5 | 5.6 |
| 20°-30° | 2970.3 | 9.6 |
| 30°-40° | 5108.2 | 16.5 |
| 40°-50° | 7886.5 | 25.5 |
| 50°-60° | 7928.4 | 25.6 |
| 60°-70° | 4065.8 | 13.1 |
| 70°-80° | 440.6 | 1.4 |
| 80°-90° | 46.1 | 0.1 |
| 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° | 30920.4 | 100.0 |
| 0°-180° | 30920.4 | 100.0 |

Coefficient of Utilization



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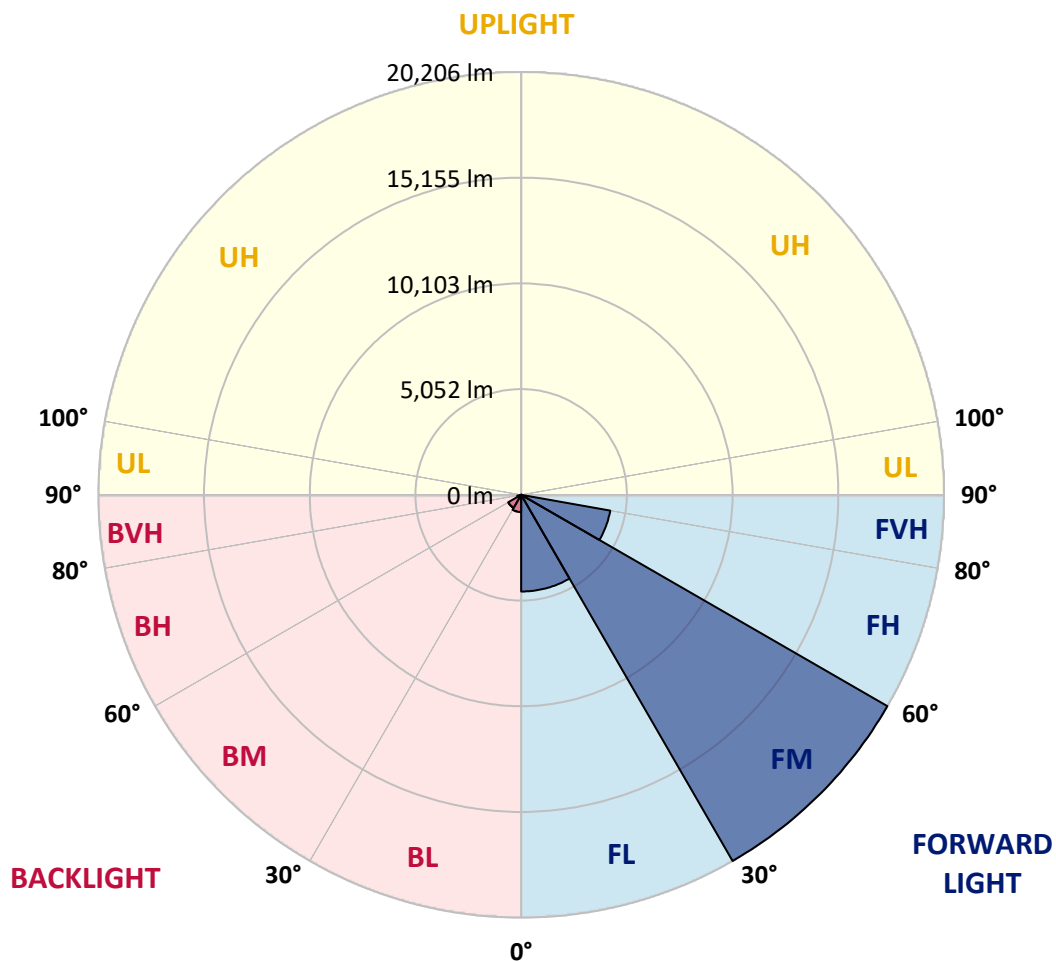
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4620.5 | 14.9 | | | |
| FM (30°-60°) | 20206.3 | 65.3 | | | |
| FH (60°-80°) | 4321.3 | 14.0 | | | G2/5000 |
| FVH (80°-90°) | 45.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 824.3 | 2.7 | B2/1000 | | |
| BM (30°-60°) | 716.8 | 2.3 | B1/1000 | | |
| BH (60°-80°) | 185.0 | 0.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8703.9 | 8703.9 | 8703.9 | 8703.9 | 8703.9 | 8703.9 | 8703.9 | 8703.9 | 8703.9 | 8703.9 | 8703.9 |
| 2.5° | 10298.8 | 10189.3 | 10156.4 | 10134.6 | 10034.2 | 9908.2 | 9736.7 | 9656.5 | 9492.2 | 9227.7 | 8902.9 |
| 5° | 11242.1 | 11222.1 | 11149.2 | 11108.9 | 11001.4 | 10822.4 | 10548.8 | 10417.5 | 10156.4 | 9711.2 | 9129.1 |
| 7.5° | 10829.8 | 10955.7 | 11056.1 | 11223.8 | 11435.6 | 11428.3 | 11198.4 | 11061.5 | 10769.5 | 10182.0 | 9381.0 |
| 10° | 9236.8 | 9338.9 | 9503.2 | 9884.5 | 10661.9 | 11348.0 | 11618.1 | 11519.5 | 11285.9 | 10614.4 | 9623.7 |
| 12.5° | 8924.8 | 8913.8 | 8943.0 | 9054.4 | 9461.2 | 10439.2 | 11546.9 | 11745.8 | 11698.4 | 11010.4 | 9853.5 |
| 15° | 9090.8 | 9078.1 | 9074.4 | 9112.7 | 9211.2 | 9623.7 | 11012.2 | 11583.4 | 11950.1 | 11377.1 | 10048.8 |
| 17.5° | 9556.2 | 9501.4 | 9472.2 | 9441.2 | 9411.9 | 9514.2 | 10369.9 | 11129.0 | 11988.5 | 11698.4 | 10211.2 |
| 20° | 10353.5 | 10262.2 | 10154.7 | 9979.4 | 9815.2 | 9764.2 | 10099.9 | 10661.9 | 11851.7 | 11942.9 | 10317.1 |
| 22.5° | 11355.4 | 11238.5 | 11052.4 | 10733.1 | 10399.2 | 10205.7 | 10233.1 | 10514.1 | 11647.2 | 12209.2 | 10366.3 |
| 25° | 12481.1 | 12331.5 | 12083.4 | 11639.9 | 11149.2 | 10806.1 | 10627.2 | 10725.8 | 11554.1 | 12521.3 | 10422.9 |
| 27.5° | 13687.4 | 13521.3 | 13196.5 | 12592.4 | 12035.9 | 11572.4 | 11207.5 | 11194.7 | 11712.9 | 12930.1 | 10514.1 |
| 30° | 14882.5 | 14857.0 | 14433.5 | 13795.0 | 13057.8 | 12493.9 | 11968.4 | 11900.9 | 12156.4 | 13495.7 | 10694.8 |
| 32.5° | 16477.3 | 16285.7 | 15767.5 | 15110.5 | 14260.3 | 13583.3 | 12961.1 | 12804.1 | 12837.0 | 14154.4 | 10973.9 |
| 35° | 18488.2 | 18278.3 | 17548.4 | 16641.6 | 15690.8 | 14891.6 | 14203.7 | 13990.2 | 13909.9 | 15232.8 | 11444.7 |
| 37.5° | 19787.4 | 19783.8 | 19325.8 | 18402.4 | 17382.4 | 16501.1 | 15752.9 | 15502.9 | 15340.5 | 16535.8 | 12174.6 |
| 40° | 19822.1 | 19907.8 | 19968.0 | 19958.9 | 19232.7 | 18420.7 | 17756.5 | 17448.0 | 17070.3 | 18276.6 | 13118.0 |
| 42.5° | 18758.2 | 18979.0 | 19510.0 | 20411.5 | 20842.1 | 20519.1 | 19958.9 | 19656.1 | 19094.0 | 20139.5 | 14267.6 |
| 45° | 17320.4 | 17473.7 | 18402.4 | 20063.0 | 21714.3 | 22599.3 | 22172.3 | 21630.4 | 20889.5 | 22082.9 | 15298.6 |
| 47.5° | 16676.2 | 16703.5 | 17303.9 | 19126.8 | 21780.0 | 24303.6 | 24562.7 | 23681.4 | 22520.8 | 23648.5 | 16105.1 |
| 50° | 14751.1 | 14800.4 | 15628.9 | 17504.7 | 21010.0 | 25108.4 | 26964.1 | 26128.4 | 24300.0 | 24854.7 | 16398.8 |
| 52.5° | 11118.1 | 11187.4 | 12238.4 | 14838.7 | 18893.3 | 24765.2 | 28683.0 | 28480.4 | 26248.8 | 25444.1 | 16415.3 |
| 55° | 6559.9 | 6651.1 | 7654.7 | 9988.6 | 14860.6 | 22582.9 | 28810.7 | 29555.1 | 27787.1 | 25792.7 | 16389.8 |
| 57.5° | 3063.7 | 3127.5 | 3702.4 | 5145.8 | 9242.2 | 17847.7 | 26887.4 | 28818.0 | 28635.5 | 25976.9 | 16570.4 |
| 60° | 1627.6 | 1645.9 | 1784.6 | 2228.1 | 4176.8 | 11317.0 | 23134.0 | 26022.5 | 27861.8 | 26232.4 | 16791.2 |
| 62.5° | 1244.5 | 1249.9 | 1242.6 | 1295.6 | 1755.4 | 5023.5 | 17486.4 | 21393.2 | 24747.0 | 26040.8 | 16546.7 |
| 65° | 1078.4 | 1087.5 | 1036.5 | 1023.6 | 1125.8 | 1791.9 | 10388.2 | 15249.4 | 19446.2 | 23455.1 | 14880.7 |
| 67.5° | 967.1 | 970.8 | 908.7 | 855.8 | 874.1 | 968.9 | 4098.4 | 8348.2 | 12871.7 | 17192.6 | 10786.0 |
| 70° | 890.5 | 886.8 | 819.3 | 735.4 | 711.6 | 662.3 | 1302.8 | 3060.1 | 6151.2 | 8718.6 | 5016.2 |
| 72.5° | 788.3 | 790.2 | 757.2 | 647.8 | 591.2 | 463.5 | 603.9 | 892.3 | 1835.7 | 2375.9 | 1175.1 |
| 75° | 698.8 | 689.8 | 649.6 | 580.2 | 487.2 | 304.8 | 299.3 | 397.8 | 565.6 | 562.0 | 253.6 |
| 77.5° | 505.5 | 496.4 | 509.1 | 476.3 | 374.1 | 197.1 | 149.5 | 191.6 | 229.9 | 222.7 | 71.1 |
| 80° | 370.4 | 364.9 | 328.5 | 395.9 | 330.3 | 135.1 | 93.1 | 102.1 | 118.6 | 100.4 | 21.9 |
| 82.5° | 253.6 | 251.9 | 231.7 | 218.9 | 187.9 | 82.2 | 58.4 | 63.9 | 76.6 | 56.6 | 10.9 |
| 85° | 40.1 | 45.7 | 167.8 | 133.2 | 111.3 | 36.5 | 40.1 | 43.8 | 51.2 | 31.0 | 3.6 |
| 87.5° | 0.0 | 0.0 | 78.4 | 69.4 | 21.9 | 14.6 | 23.7 | 25.5 | 25.5 | 16.4 | 0.0 |
| 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° | 8703.9 | 8703.9 | 8703.9 | 8703.9 | 8703.9 | 8703.9 | 8703.9 | 8703.9 | 8703.9 | 8703.9 | 8703.9 |
| 2.5° | 8736.8 | 8554.4 | 8216.8 | 7868.2 | 7545.2 | 7160.2 | 6895.7 | 6696.7 | 6466.8 | 6404.8 | 6539.8 |
| 5° | 8797.0 | 8452.2 | 7725.9 | 6935.8 | 6193.2 | 5370.2 | 4740.6 | 4242.5 | 3791.9 | 3638.6 | 3777.2 |
| 7.5° | 8891.9 | 8379.2 | 7194.9 | 5893.9 | 4602.0 | 3317.3 | 2437.8 | 1859.4 | 1490.9 | 1381.4 | 1439.7 |
| 10° | 8986.8 | 8273.3 | 6580.0 | 4660.4 | 2894.1 | 1614.9 | 1051.1 | 839.3 | 760.9 | 744.5 | 753.6 |
| 12.5° | 9065.2 | 8131.0 | 5830.0 | 3313.8 | 1547.3 | 864.9 | 687.9 | 653.3 | 642.3 | 642.3 | 645.9 |
| 15° | 9112.7 | 7915.8 | 4941.4 | 2107.6 | 890.5 | 653.3 | 600.4 | 589.4 | 589.4 | 591.2 | 594.9 |
| 17.5° | 9107.2 | 7642.0 | 3968.9 | 1275.5 | 666.1 | 578.4 | 547.4 | 538.3 | 536.5 | 540.1 | 541.9 |
| 20° | 9039.7 | 7284.4 | 2992.6 | 841.2 | 580.2 | 527.4 | 496.4 | 479.8 | 478.1 | 481.8 | 485.3 |
| 22.5° | 8911.9 | 6842.8 | 2140.4 | 647.8 | 523.7 | 478.1 | 439.8 | 425.1 | 425.1 | 428.9 | 432.4 |
| 25° | 8756.9 | 6302.6 | 1463.4 | 549.2 | 472.6 | 425.1 | 388.6 | 375.9 | 379.5 | 388.6 | 390.5 |
| 27.5° | 8563.5 | 5695.0 | 994.5 | 470.8 | 410.6 | 372.2 | 344.8 | 335.8 | 344.8 | 357.6 | 361.3 |
| 30° | 8397.4 | 5061.8 | 709.8 | 406.9 | 348.5 | 321.1 | 304.8 | 304.8 | 317.5 | 341.2 | 346.7 |
| 32.5° | 8269.8 | 4448.7 | 547.4 | 359.5 | 302.8 | 279.1 | 270.1 | 279.1 | 299.3 | 323.0 | 328.5 |
| 35° | 8253.2 | 3943.2 | 463.5 | 321.1 | 270.1 | 246.4 | 242.7 | 259.2 | 279.1 | 297.4 | 301.1 |
| 37.5° | 8379.2 | 3476.1 | 417.9 | 290.1 | 240.9 | 218.9 | 215.3 | 235.4 | 255.4 | 277.4 | 282.9 |
| 40° | 8618.3 | 3109.3 | 385.0 | 260.9 | 217.1 | 193.4 | 186.1 | 200.7 | 228.2 | 257.3 | 264.6 |
| 42.5° | 8928.4 | 2806.5 | 348.5 | 231.7 | 193.4 | 160.6 | 151.5 | 167.8 | 197.1 | 228.2 | 237.2 |
| 45° | 9224.0 | 2545.5 | 308.3 | 198.9 | 162.4 | 124.1 | 120.4 | 142.4 | 156.9 | 187.9 | 195.2 |
| 47.5° | 9386.5 | 2315.5 | 273.7 | 162.4 | 125.8 | 100.4 | 100.4 | 105.9 | 120.4 | 156.9 | 164.2 |
| 50° | 9331.8 | 2131.3 | 237.2 | 120.4 | 87.6 | 76.6 | 76.6 | 74.9 | 96.7 | 125.8 | 131.3 |
| 52.5° | 9222.2 | 2025.4 | 204.5 | 93.1 | 60.2 | 54.7 | 49.2 | 54.7 | 67.5 | 80.3 | 82.2 |
| 55° | 9205.7 | 2007.2 | 171.5 | 74.9 | 41.9 | 36.5 | 27.5 | 27.5 | 27.5 | 25.5 | 21.9 |
| 57.5° | 9333.5 | 2036.4 | 144.1 | 60.2 | 31.0 | 23.7 | 14.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 9464.9 | 2067.4 | 124.1 | 41.9 | 21.9 | 12.8 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 9245.9 | 1998.2 | 104.1 | 25.5 | 16.4 | 5.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 8121.9 | 1700.6 | 82.2 | 18.2 | 10.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 5777.1 | 1138.6 | 54.7 | 10.9 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 2636.8 | 476.3 | 34.6 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 563.9 | 147.8 | 23.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 114.9 | 107.6 | 9.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 36.5 | 169.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 21.9 | 122.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 3.6 | 18.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)