

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: P192682

Luminaire Tested: **GAN-AF-04-LED-U-AFL-7030-1200-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192682
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-04-LED-U-AFL-7030-1200-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 20855.4 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 258
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

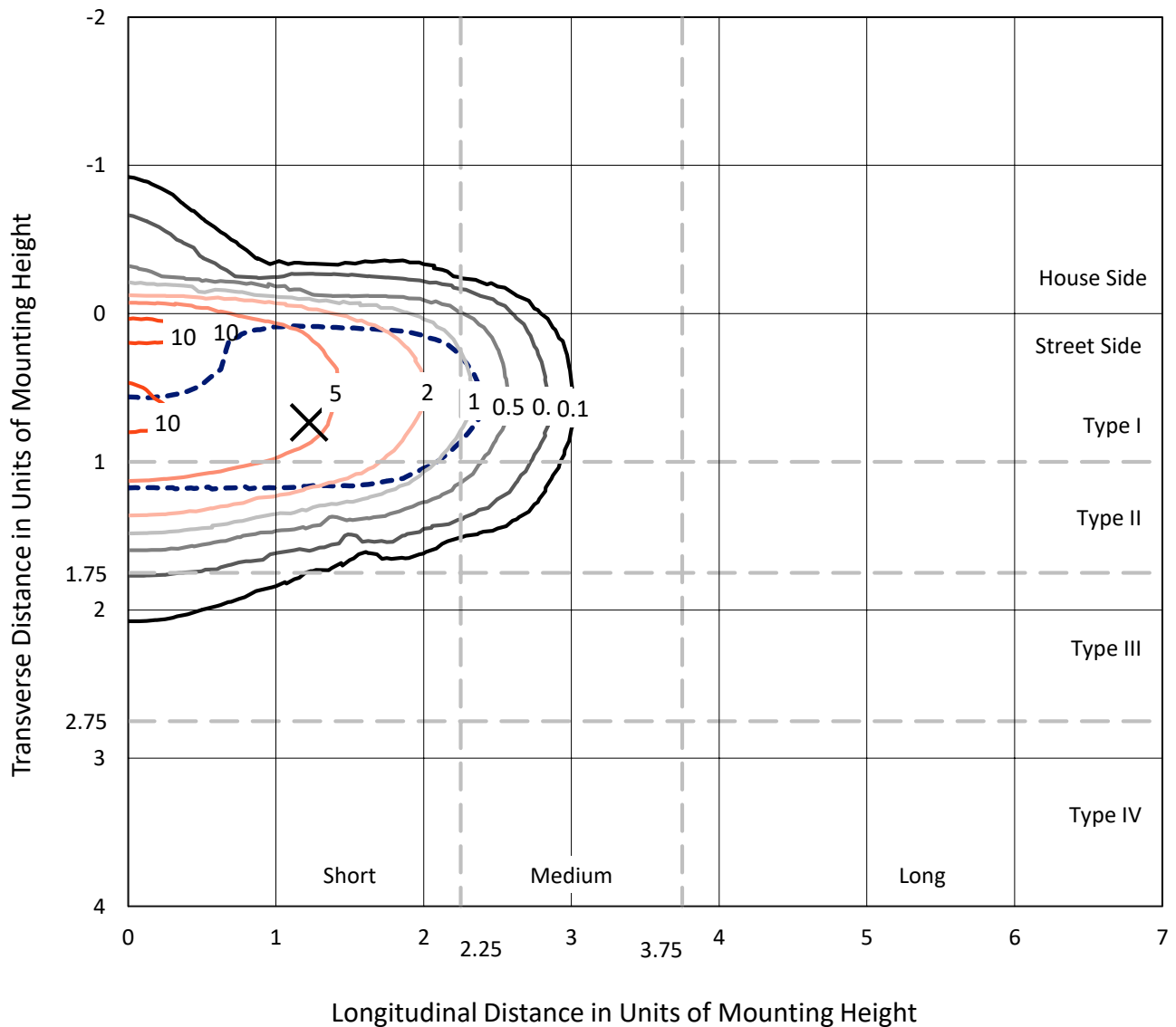


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

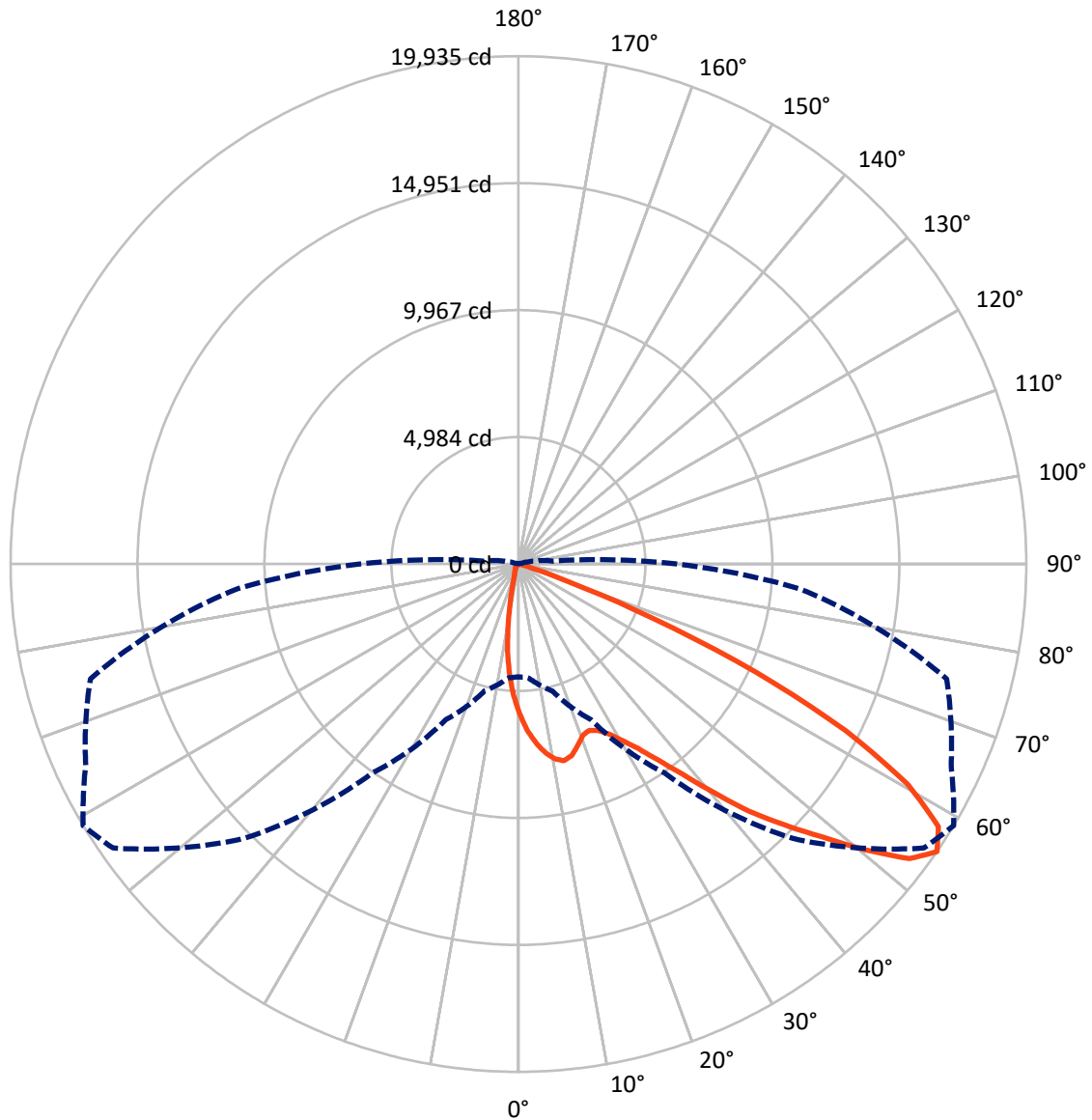


Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - Full Cutoff

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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 | 1164.9 | 0.0 | 1164.9 |
| | % Fixture | 5.6 | 0.0 | 5.6 |
| Street Side | Lumens | 19690.5 | 0.0 | 19690.5 |
| | % Fixture | 94.4 | 0.0 | 94.4 |
| Total | Lumens | 20855.4 | 0.0 | 20855.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 491.7 | 2.4 |
| 10°-20° | 1177.4 | 5.6 |
| 20°-30° | 2003.4 | 9.6 |
| 30°-40° | 3445.4 | 16.5 |
| 40°-50° | 5319.3 | 25.5 |
| 50°-60° | 5347.6 | 25.6 |
| 60°-70° | 2742.3 | 13.1 |
| 70°-80° | 297.2 | 1.4 |
| 80°-90° | 31.1 | 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° | 20855.4 | 100.0 |
| 0°-180° | 20855.4 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P192682

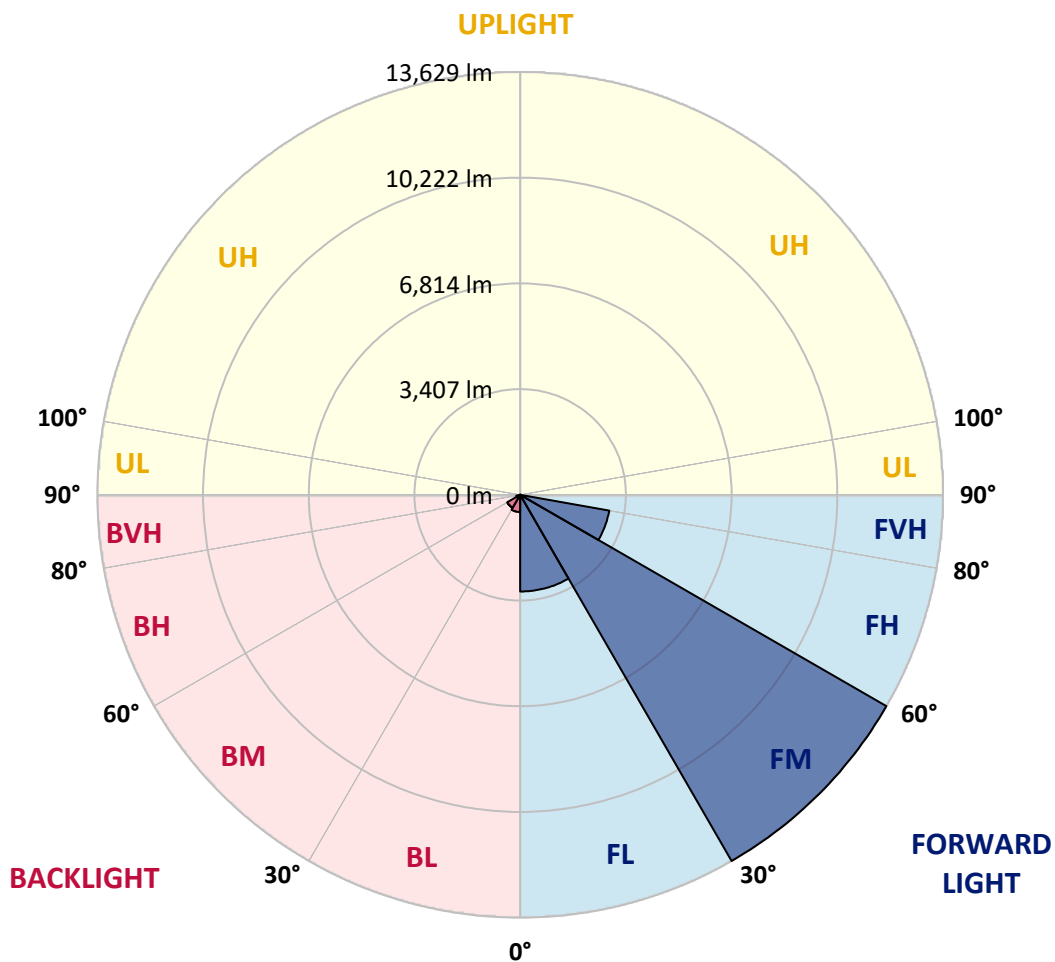
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3116.5 | 14.9 | | | |
| FM (30°-60°) | 13628.9 | 65.3 | | | |
| FH (60°-80°) | 2914.7 | 14.0 | | | G2/5000 |
| FVH (80°-90°) | 30.4 | 0.1 | | | G1/100 |
| BL (0°-30°) | 556.0 | 2.7 | B2/1000 | | |
| BM (30°-60°) | 483.5 | 2.3 | B1/1000 | | |
| BH (60°-80°) | 124.8 | 0.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.6 | 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° | 5870.7 | 5870.7 | 5870.7 | 5870.7 | 5870.7 | 5870.7 | 5870.7 | 5870.7 | 5870.7 | 5870.7 | 5870.7 |
| 2.5° | 6946.3 | 6872.5 | 6850.4 | 6835.6 | 6767.9 | 6683.1 | 6567.3 | 6513.2 | 6402.4 | 6224.0 | 6004.9 |
| 5° | 7582.7 | 7569.2 | 7520.0 | 7492.9 | 7420.3 | 7299.6 | 7115.1 | 7026.4 | 6850.4 | 6550.1 | 6157.6 |
| 7.5° | 7304.5 | 7389.5 | 7457.2 | 7570.3 | 7713.1 | 7708.2 | 7553.2 | 7460.9 | 7264.0 | 6867.6 | 6327.3 |
| 10° | 6230.1 | 6299.1 | 6409.8 | 6667.0 | 7191.3 | 7654.0 | 7836.3 | 7769.8 | 7612.2 | 7159.3 | 6491.0 |
| 12.5° | 6019.6 | 6012.2 | 6031.9 | 6107.0 | 6381.5 | 7041.2 | 7788.2 | 7922.4 | 7890.3 | 7426.4 | 6646.1 |
| 15° | 6131.6 | 6123.0 | 6120.6 | 6146.4 | 6212.9 | 6491.0 | 7427.7 | 7812.9 | 8060.3 | 7673.9 | 6777.8 |
| 17.5° | 6445.5 | 6408.6 | 6388.8 | 6367.9 | 6348.3 | 6417.3 | 6994.4 | 7506.4 | 8086.1 | 7890.3 | 6887.3 |
| 20° | 6983.3 | 6921.8 | 6849.1 | 6731.0 | 6620.2 | 6585.8 | 6812.2 | 7191.3 | 7993.7 | 8055.3 | 6958.7 |
| 22.5° | 7659.0 | 7580.3 | 7454.8 | 7239.3 | 7014.1 | 6883.7 | 6902.1 | 7091.6 | 7856.0 | 8235.0 | 6991.9 |
| 25° | 8418.4 | 8317.5 | 8150.0 | 7851.1 | 7520.0 | 7288.5 | 7168.0 | 7234.4 | 7793.1 | 8445.5 | 7030.1 |
| 27.5° | 9232.0 | 9120.0 | 8900.8 | 8493.5 | 8118.1 | 7805.5 | 7559.3 | 7550.7 | 7900.2 | 8721.2 | 7091.6 |
| 30° | 10038.0 | 10020.8 | 9735.3 | 9304.5 | 8807.3 | 8427.0 | 8072.5 | 8027.1 | 8199.4 | 9102.7 | 7213.6 |
| 32.5° | 11113.8 | 10984.5 | 10635.0 | 10191.9 | 9618.4 | 9161.8 | 8742.1 | 8636.3 | 8658.4 | 9547.0 | 7401.8 |
| 35° | 12470.1 | 12328.5 | 11836.2 | 11224.5 | 10583.3 | 10044.2 | 9580.2 | 9436.2 | 9382.1 | 10274.4 | 7719.2 |
| 37.5° | 13346.3 | 13344.0 | 13034.9 | 12412.2 | 11724.2 | 11129.8 | 10625.1 | 10456.5 | 10347.0 | 11153.1 | 8211.6 |
| 40° | 13369.7 | 13427.6 | 13468.2 | 13462.1 | 12972.3 | 12424.5 | 11976.6 | 11768.6 | 11513.7 | 12327.2 | 8848.0 |
| 42.5° | 12652.2 | 12801.2 | 13159.3 | 13767.3 | 14057.8 | 13839.9 | 13462.1 | 13257.7 | 12878.7 | 13583.8 | 9623.3 |
| 45° | 11682.3 | 11785.8 | 12412.2 | 13532.2 | 14645.9 | 15243.0 | 14955.0 | 14589.4 | 14089.7 | 14894.7 | 10318.7 |
| 47.5° | 11247.9 | 11266.4 | 11671.3 | 12900.8 | 14690.4 | 16392.5 | 16567.2 | 15972.8 | 15190.0 | 15950.6 | 10862.7 |
| 50° | 9949.4 | 9982.7 | 10541.5 | 11806.7 | 14170.9 | 16935.3 | 18187.0 | 17623.2 | 16390.0 | 16764.2 | 11060.9 |
| 52.5° | 7499.0 | 7545.8 | 8254.7 | 10008.5 | 12743.2 | 16703.9 | 19346.3 | 19209.8 | 17704.5 | 17161.7 | 11071.9 |
| 55° | 4424.6 | 4486.0 | 5163.0 | 6737.2 | 10023.3 | 15231.9 | 19432.5 | 19934.6 | 18742.0 | 17396.8 | 11054.7 |
| 57.5° | 2066.4 | 2109.5 | 2497.2 | 3470.7 | 6233.8 | 12038.0 | 18135.3 | 19437.3 | 19314.3 | 17521.2 | 11176.5 |
| 60° | 1097.8 | 1110.2 | 1203.7 | 1502.8 | 2817.2 | 7633.2 | 15603.6 | 17551.9 | 18792.5 | 17693.5 | 11325.5 |
| 62.5° | 839.3 | 843.1 | 838.1 | 873.8 | 1184.1 | 3388.2 | 11794.3 | 14429.5 | 16691.5 | 17564.2 | 11160.5 |
| 65° | 727.3 | 733.5 | 699.0 | 690.4 | 759.4 | 1208.6 | 7006.7 | 10285.4 | 13116.2 | 15820.2 | 10036.9 |
| 67.5° | 652.3 | 654.8 | 613.0 | 577.2 | 589.6 | 653.5 | 2764.3 | 5630.6 | 8681.7 | 11596.2 | 7275.0 |
| 70° | 600.6 | 598.2 | 552.7 | 496.0 | 479.9 | 446.8 | 878.8 | 2064.0 | 4148.9 | 5880.6 | 3383.3 |
| 72.5° | 531.6 | 532.9 | 510.8 | 436.9 | 398.8 | 312.6 | 407.4 | 601.8 | 1238.1 | 1602.4 | 792.5 |
| 75° | 471.4 | 465.2 | 438.1 | 391.3 | 328.7 | 205.5 | 201.8 | 268.3 | 381.6 | 379.0 | 171.1 |
| 77.5° | 340.9 | 334.8 | 343.4 | 321.2 | 252.3 | 133.0 | 100.9 | 129.3 | 155.0 | 150.1 | 48.0 |
| 80° | 249.8 | 246.2 | 221.6 | 267.0 | 222.8 | 91.1 | 62.8 | 69.0 | 80.0 | 67.7 | 14.7 |
| 82.5° | 171.1 | 169.9 | 156.3 | 147.7 | 126.7 | 55.4 | 39.4 | 43.0 | 51.7 | 38.1 | 7.4 |
| 85° | 27.1 | 30.8 | 113.2 | 89.8 | 75.1 | 24.6 | 27.1 | 29.5 | 34.4 | 20.9 | 2.5 |
| 87.5° | 0.0 | 0.0 | 52.9 | 46.8 | 14.7 | 9.9 | 16.0 | 17.3 | 17.3 | 11.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5870.7 | 5870.7 | 5870.7 | 5870.7 | 5870.7 | 5870.7 | 5870.7 | 5870.7 | 5870.7 | 5870.7 | 5870.7 |
| 2.5° | 5892.9 | 5769.8 | 5542.0 | 5307.0 | 5089.2 | 4829.5 | 4651.0 | 4516.9 | 4361.8 | 4320.0 | 4411.1 |
| 5° | 5933.6 | 5700.9 | 5211.0 | 4678.2 | 4177.2 | 3622.2 | 3197.5 | 2861.5 | 2557.5 | 2454.2 | 2547.7 |
| 7.5° | 5997.5 | 5651.7 | 4852.9 | 3975.4 | 3103.9 | 2237.5 | 1644.3 | 1254.2 | 1005.5 | 931.7 | 971.1 |
| 10° | 6061.4 | 5580.3 | 4438.1 | 3143.4 | 1952.0 | 1089.2 | 708.9 | 566.2 | 513.2 | 502.1 | 508.3 |
| 12.5° | 6114.3 | 5484.3 | 3932.2 | 2235.0 | 1043.7 | 583.3 | 464.1 | 440.7 | 433.2 | 433.2 | 435.7 |
| 15° | 6146.4 | 5339.1 | 3332.9 | 1421.6 | 600.6 | 440.7 | 405.0 | 397.4 | 397.4 | 398.8 | 401.2 |
| 17.5° | 6142.8 | 5154.5 | 2676.9 | 860.3 | 449.3 | 390.2 | 369.2 | 363.1 | 361.8 | 364.3 | 365.6 |
| 20° | 6097.2 | 4913.2 | 2018.4 | 567.4 | 391.3 | 355.6 | 334.8 | 323.7 | 322.5 | 324.9 | 327.3 |
| 22.5° | 6011.0 | 4615.3 | 1443.7 | 436.9 | 353.2 | 322.5 | 296.6 | 286.8 | 286.8 | 289.2 | 291.7 |
| 25° | 5906.4 | 4251.1 | 987.0 | 370.5 | 318.8 | 286.8 | 262.1 | 253.6 | 256.0 | 262.1 | 263.5 |
| 27.5° | 5776.0 | 3841.2 | 670.8 | 317.5 | 277.0 | 251.1 | 232.6 | 226.5 | 232.6 | 241.3 | 243.6 |
| 30° | 5664.0 | 3414.2 | 478.8 | 274.5 | 235.1 | 216.7 | 205.5 | 205.5 | 214.1 | 230.1 | 233.9 |
| 32.5° | 5577.8 | 3000.6 | 369.2 | 242.4 | 204.4 | 188.3 | 182.1 | 188.3 | 201.8 | 217.9 | 221.6 |
| 35° | 5566.8 | 2659.7 | 312.6 | 216.7 | 182.1 | 166.2 | 163.7 | 174.9 | 188.3 | 200.6 | 203.1 |
| 37.5° | 5651.7 | 2344.6 | 281.9 | 195.7 | 162.5 | 147.7 | 145.2 | 158.8 | 172.3 | 187.1 | 190.7 |
| 40° | 5812.9 | 2097.2 | 259.7 | 176.0 | 146.4 | 130.4 | 125.5 | 135.4 | 153.8 | 173.5 | 178.4 |
| 42.5° | 6022.2 | 1892.9 | 235.1 | 156.3 | 130.4 | 108.2 | 102.1 | 113.2 | 133.0 | 153.8 | 159.9 |
| 45° | 6221.4 | 1716.9 | 208.0 | 134.2 | 109.6 | 83.7 | 81.2 | 96.0 | 105.9 | 126.7 | 131.6 |
| 47.5° | 6331.0 | 1561.9 | 184.6 | 109.6 | 84.9 | 67.7 | 67.7 | 71.3 | 81.2 | 105.9 | 110.8 |
| 50° | 6294.1 | 1437.6 | 159.9 | 81.2 | 59.1 | 51.7 | 51.7 | 50.5 | 65.2 | 84.9 | 88.6 |
| 52.5° | 6220.2 | 1366.2 | 137.8 | 62.8 | 40.7 | 36.9 | 33.3 | 36.9 | 45.6 | 54.2 | 55.4 |
| 55° | 6209.2 | 1353.8 | 115.7 | 50.5 | 28.3 | 24.6 | 18.5 | 18.5 | 18.5 | 17.3 | 14.7 |
| 57.5° | 6295.3 | 1373.5 | 97.2 | 40.7 | 20.9 | 16.0 | 9.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 6383.9 | 1394.4 | 83.7 | 28.3 | 14.7 | 8.6 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 6236.3 | 1347.7 | 70.2 | 17.3 | 11.0 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 5478.2 | 1147.1 | 55.4 | 12.3 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 3896.6 | 768.0 | 36.9 | 7.4 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 1778.4 | 321.2 | 23.4 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 380.3 | 99.7 | 16.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 77.6 | 72.6 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 24.6 | 114.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 14.7 | 82.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 2.5 | 12.3 | 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)