

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: P300697

Luminaire Tested: **GAA-AF-07-LED-U-AFL-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300697
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: GAA-AF-07-LED-U-AFL-7030-800-HSS
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24468.4 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 295
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

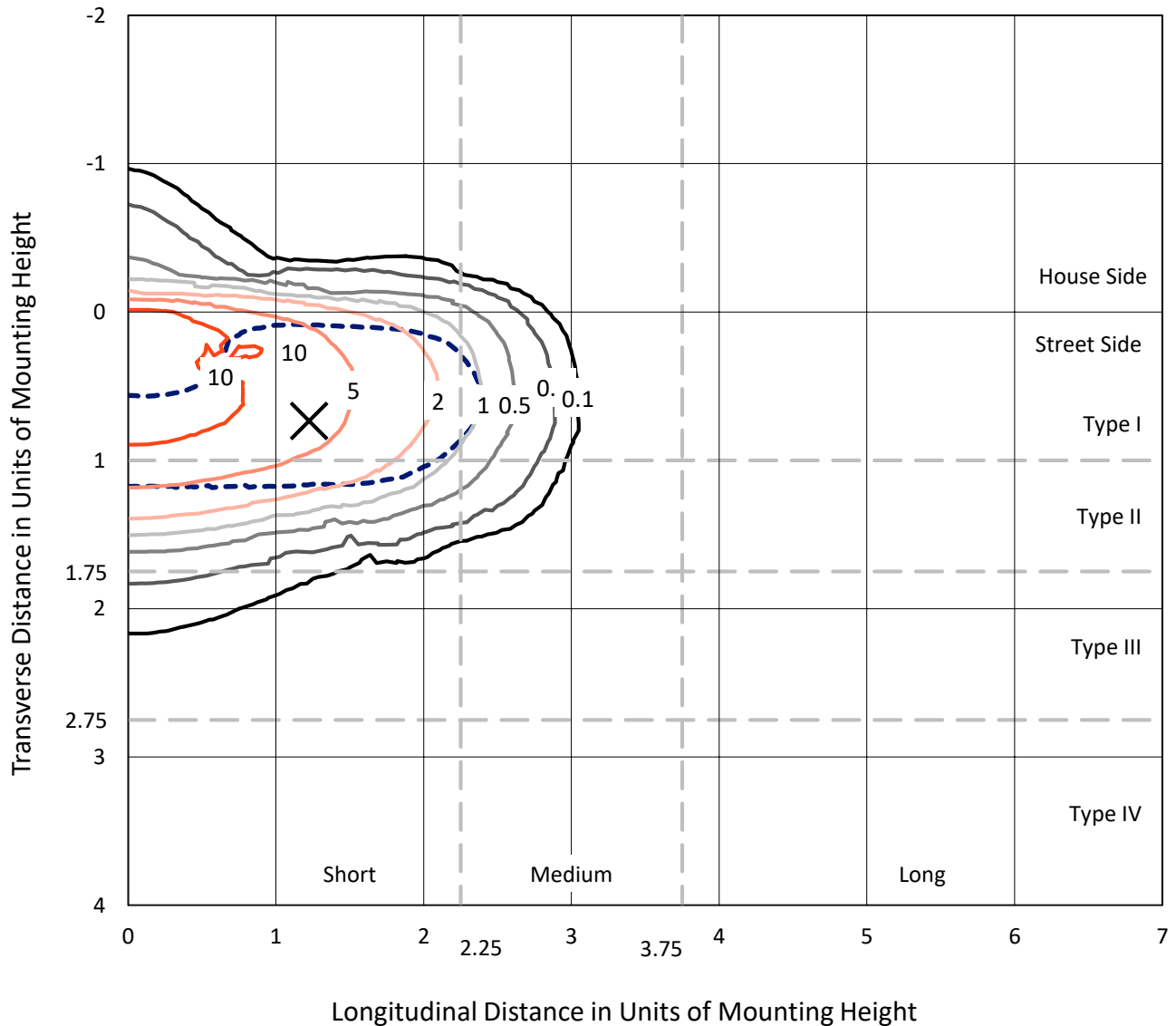


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

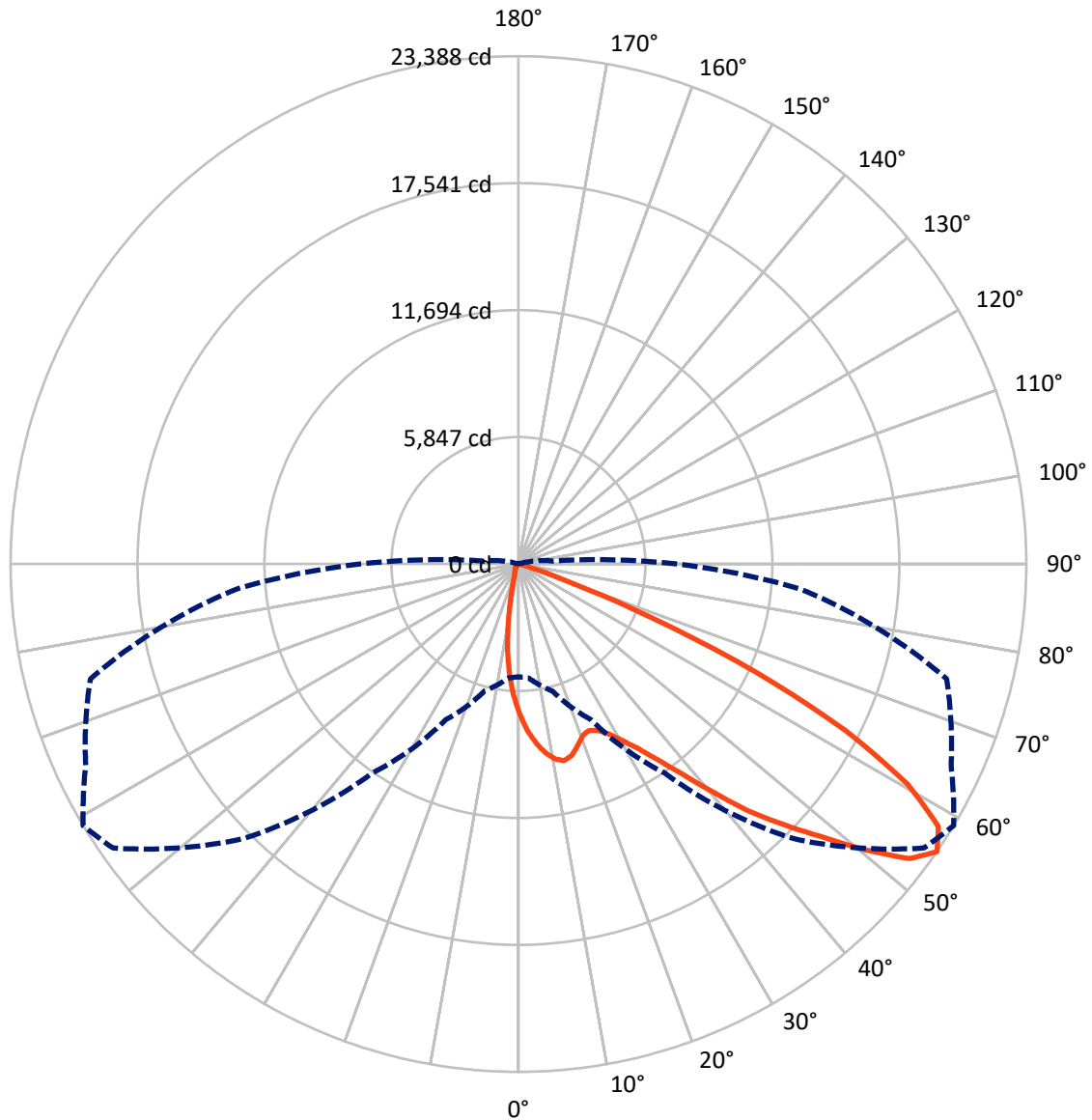


Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - Full Cutoff

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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 | 1366.7 | 0.0 | 1366.7 |
| | % Fixture | 5.6 | 0.0 | 5.6 |
| Street Side | Lumens | 23101.7 | 0.0 | 23101.7 |
| | % Fixture | 94.4 | 0.0 | 94.4 |
| Total | Lumens | 24468.4 | 0.0 | 24468.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 576.9 | 2.4 |
| 10°-20° | 1381.3 | 5.6 |
| 20°-30° | 2350.5 | 9.6 |
| 30°-40° | 4042.3 | 16.5 |
| 40°-50° | 6240.9 | 25.5 |
| 50°-60° | 6274.0 | 25.6 |
| 60°-70° | 3217.4 | 13.1 |
| 70°-80° | 348.7 | 1.4 |
| 80°-90° | 36.4 | 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° | 24468.4 | 100.0 |
| 0°-180° | 24468.4 | 100.0 |

Coefficient of Utilization



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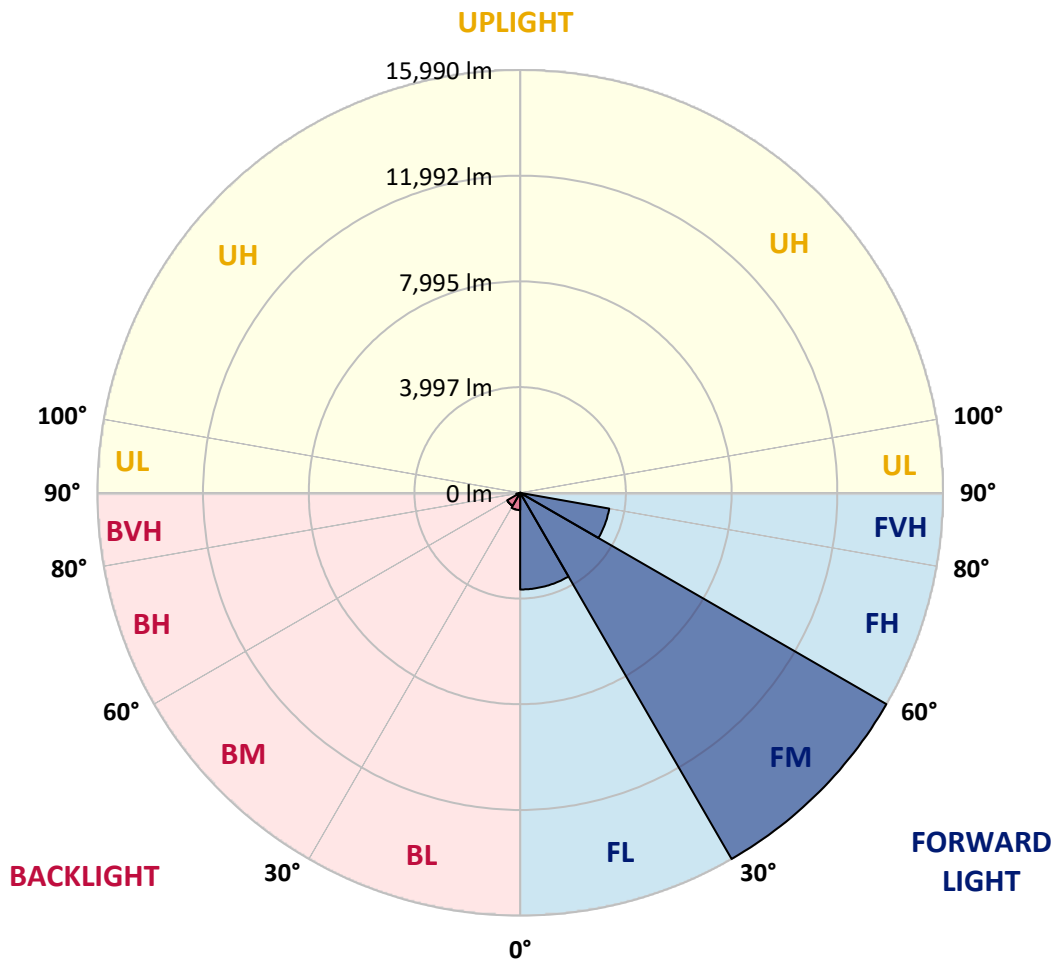
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3656.4 | 14.9 | | | |
| FM (30°-60°) | 15990.0 | 65.3 | | | |
| FH (60°-80°) | 3419.6 | 14.0 | | | G2/5000 |
| FVH (80°-90°) | 35.7 | 0.1 | | | G1/100 |
| BL (0°-30°) | 652.3 | 2.7 | B2/1000 | | |
| BM (30°-60°) | 567.2 | 2.3 | B1/1000 | | |
| BH (60°-80°) | 146.4 | 0.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.8 | 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° | 6887.8 | 6887.8 | 6887.8 | 6887.8 | 6887.8 | 6887.8 | 6887.8 | 6887.8 | 6887.8 | 6887.8 | 6887.8 |
| 2.5° | 8149.8 | 8063.2 | 8037.2 | 8019.8 | 7940.4 | 7840.8 | 7705.1 | 7641.5 | 7511.6 | 7302.2 | 7045.2 |
| 5° | 8896.3 | 8880.5 | 8822.7 | 8790.9 | 8705.7 | 8564.2 | 8347.6 | 8243.7 | 8037.2 | 7684.8 | 7224.2 |
| 7.5° | 8570.0 | 8669.6 | 8749.1 | 8881.9 | 9049.4 | 9043.6 | 8861.7 | 8753.4 | 8522.3 | 8057.4 | 7423.5 |
| 10° | 7309.4 | 7390.3 | 7520.2 | 7822.0 | 8437.2 | 8980.1 | 9193.8 | 9115.8 | 8931.0 | 8399.6 | 7615.5 |
| 12.5° | 7062.5 | 7053.8 | 7076.9 | 7165.0 | 7487.0 | 8261.0 | 9137.5 | 9294.9 | 9257.3 | 8713.0 | 7797.5 |
| 15° | 7193.9 | 7183.8 | 7180.9 | 7211.2 | 7289.2 | 7615.5 | 8714.4 | 9166.4 | 9456.6 | 9003.2 | 7952.0 |
| 17.5° | 7562.1 | 7518.8 | 7495.7 | 7471.1 | 7448.0 | 7528.9 | 8206.1 | 8806.8 | 9486.9 | 9257.3 | 8080.5 |
| 20° | 8193.1 | 8120.9 | 8035.7 | 7897.1 | 7767.1 | 7726.7 | 7992.4 | 8437.2 | 9378.6 | 9450.8 | 8164.2 |
| 22.5° | 8985.9 | 8893.5 | 8746.2 | 8493.5 | 8229.2 | 8076.2 | 8097.8 | 8320.2 | 9216.9 | 9661.6 | 8203.2 |
| 25° | 9876.8 | 9758.4 | 9562.0 | 9211.1 | 8822.7 | 8551.2 | 8409.7 | 8487.7 | 9143.3 | 9908.6 | 8248.0 |
| 27.5° | 10831.3 | 10699.9 | 10442.8 | 9964.9 | 9524.5 | 9157.7 | 8868.9 | 8858.8 | 9268.9 | 10232.0 | 8320.2 |
| 30° | 11777.1 | 11756.9 | 11421.9 | 10916.5 | 10333.1 | 9886.9 | 9471.0 | 9417.6 | 9619.8 | 10679.7 | 8463.1 |
| 32.5° | 13039.1 | 12887.5 | 12477.4 | 11957.6 | 11284.7 | 10749.0 | 10256.6 | 10132.4 | 10158.4 | 11200.9 | 8684.1 |
| 35° | 14630.4 | 14464.3 | 13886.7 | 13169.1 | 12416.8 | 11784.3 | 11239.9 | 11071.0 | 11007.4 | 12054.3 | 9056.6 |
| 37.5° | 15658.5 | 15655.6 | 15293.2 | 14562.5 | 13755.3 | 13057.9 | 12465.8 | 12268.0 | 12139.5 | 13085.3 | 9634.2 |
| 40° | 15685.9 | 15753.8 | 15801.4 | 15794.2 | 15219.5 | 14576.9 | 14051.3 | 13807.3 | 13508.4 | 14462.9 | 10380.7 |
| 42.5° | 14844.1 | 15018.8 | 15439.0 | 16152.3 | 16493.1 | 16237.5 | 15794.2 | 15554.5 | 15109.8 | 15937.2 | 11290.5 |
| 45° | 13706.2 | 13827.5 | 14562.5 | 15876.5 | 17183.3 | 17883.6 | 17545.8 | 17116.9 | 16530.6 | 17475.0 | 12106.3 |
| 47.5° | 13196.5 | 13218.2 | 13693.2 | 15135.8 | 17235.3 | 19232.3 | 19437.4 | 18739.9 | 17821.6 | 18713.9 | 12744.5 |
| 50° | 11673.1 | 11712.1 | 12367.7 | 13852.1 | 16625.9 | 19869.1 | 21337.6 | 20676.3 | 19229.4 | 19668.4 | 12977.0 |
| 52.5° | 8798.1 | 8853.0 | 9684.8 | 11742.4 | 14950.9 | 19597.6 | 22697.9 | 22537.6 | 20771.6 | 20134.8 | 12990.0 |
| 55° | 5191.1 | 5263.3 | 6057.5 | 7904.3 | 11759.7 | 17870.7 | 22798.9 | 23388.1 | 21988.9 | 20410.6 | 12969.8 |
| 57.5° | 2424.4 | 2475.0 | 2929.8 | 4072.0 | 7313.7 | 14123.5 | 21277.0 | 22804.7 | 22660.3 | 20556.4 | 13112.8 |
| 60° | 1288.0 | 1302.5 | 1412.2 | 1763.1 | 3305.3 | 8955.5 | 18306.7 | 20592.5 | 22048.1 | 20758.6 | 13287.5 |
| 62.5° | 984.8 | 989.1 | 983.3 | 1025.2 | 1389.1 | 3975.3 | 13837.6 | 16929.2 | 19583.2 | 20607.0 | 13094.0 |
| 65° | 853.4 | 860.6 | 820.2 | 810.1 | 890.9 | 1418.0 | 8220.6 | 12067.3 | 15388.5 | 18560.9 | 11775.6 |
| 67.5° | 765.3 | 768.2 | 719.1 | 677.2 | 691.7 | 766.8 | 3243.2 | 6606.2 | 10185.8 | 13605.1 | 8535.3 |
| 70° | 704.7 | 701.8 | 648.3 | 581.9 | 563.2 | 524.2 | 1031.0 | 2421.5 | 4867.6 | 6899.3 | 3969.5 |
| 72.5° | 623.8 | 625.2 | 599.3 | 512.6 | 467.8 | 366.8 | 478.0 | 706.1 | 1452.6 | 1880.1 | 929.9 |
| 75° | 553.0 | 545.8 | 514.1 | 459.2 | 385.5 | 241.1 | 236.8 | 314.8 | 447.6 | 444.7 | 200.7 |
| 77.5° | 400.0 | 392.8 | 402.9 | 376.9 | 296.0 | 155.9 | 118.4 | 151.6 | 181.9 | 176.2 | 56.3 |
| 80° | 293.1 | 288.8 | 259.9 | 313.3 | 261.4 | 106.9 | 73.6 | 80.9 | 93.9 | 79.4 | 17.3 |
| 82.5° | 200.7 | 199.3 | 183.4 | 173.3 | 148.7 | 65.0 | 46.2 | 50.5 | 60.6 | 44.8 | 8.7 |
| 85° | 31.8 | 36.1 | 132.8 | 105.4 | 88.1 | 28.9 | 31.8 | 34.7 | 40.4 | 24.5 | 2.9 |
| 87.5° | 0.0 | 0.0 | 62.1 | 54.9 | 17.3 | 11.6 | 18.8 | 20.2 | 20.2 | 13.0 | 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° | 6887.8 | 6887.8 | 6887.8 | 6887.8 | 6887.8 | 6887.8 | 6887.8 | 6887.8 | 6887.8 | 6887.8 | 6887.8 |
| 2.5° | 6913.8 | 6769.4 | 6502.2 | 6226.4 | 5970.8 | 5666.2 | 5456.8 | 5299.4 | 5117.5 | 5068.4 | 5175.2 |
| 5° | 6961.4 | 6688.5 | 6113.8 | 5488.6 | 4900.9 | 4249.6 | 3751.5 | 3357.2 | 3000.6 | 2879.3 | 2989.0 |
| 7.5° | 7036.5 | 6630.7 | 5693.6 | 4664.0 | 3641.7 | 2625.1 | 1929.2 | 1471.4 | 1179.7 | 1093.1 | 1139.3 |
| 10° | 7111.6 | 6547.0 | 5207.0 | 3687.9 | 2290.1 | 1277.9 | 831.7 | 664.2 | 602.1 | 589.1 | 596.4 |
| 12.5° | 7173.7 | 6434.4 | 4613.5 | 2622.3 | 1224.5 | 684.4 | 544.4 | 516.9 | 508.3 | 508.3 | 511.2 |
| 15° | 7211.2 | 6264.0 | 3910.3 | 1667.8 | 704.7 | 516.9 | 475.1 | 466.4 | 466.4 | 467.8 | 470.7 |
| 17.5° | 7206.9 | 6047.4 | 3140.6 | 1009.3 | 527.1 | 457.7 | 433.2 | 426.0 | 424.5 | 427.4 | 428.9 |
| 20° | 7153.5 | 5764.4 | 2368.1 | 665.7 | 459.2 | 417.3 | 392.8 | 379.8 | 378.3 | 381.2 | 384.1 |
| 22.5° | 7052.4 | 5414.9 | 1693.8 | 512.6 | 414.4 | 378.3 | 348.0 | 336.4 | 336.4 | 339.3 | 342.2 |
| 25° | 6929.6 | 4987.5 | 1158.1 | 434.6 | 374.0 | 336.4 | 307.6 | 297.5 | 300.3 | 307.6 | 309.0 |
| 27.5° | 6776.6 | 4506.7 | 787.0 | 372.5 | 324.9 | 294.6 | 272.9 | 265.7 | 272.9 | 283.0 | 285.9 |
| 30° | 6645.2 | 4005.6 | 561.7 | 322.0 | 275.8 | 254.1 | 241.1 | 241.1 | 251.3 | 270.0 | 274.4 |
| 32.5° | 6544.1 | 3520.4 | 433.2 | 284.5 | 239.7 | 220.9 | 213.7 | 220.9 | 236.8 | 255.6 | 259.9 |
| 35° | 6531.1 | 3120.4 | 366.8 | 254.1 | 213.7 | 194.9 | 192.0 | 205.0 | 220.9 | 235.4 | 238.3 |
| 37.5° | 6630.7 | 2750.8 | 330.7 | 229.6 | 190.6 | 173.3 | 170.4 | 186.3 | 202.2 | 219.5 | 223.8 |
| 40° | 6819.9 | 2460.5 | 304.7 | 206.5 | 171.8 | 153.1 | 147.3 | 158.8 | 180.5 | 203.6 | 209.4 |
| 42.5° | 7065.4 | 2220.8 | 275.8 | 183.4 | 153.1 | 127.1 | 119.9 | 132.8 | 155.9 | 180.5 | 187.7 |
| 45° | 7299.3 | 2014.3 | 244.0 | 157.4 | 128.5 | 98.2 | 95.3 | 112.6 | 124.2 | 148.7 | 154.5 |
| 47.5° | 7427.8 | 1832.4 | 216.6 | 128.5 | 99.6 | 79.4 | 79.4 | 83.8 | 95.3 | 124.2 | 130.0 |
| 50° | 7384.5 | 1686.6 | 187.7 | 95.3 | 69.3 | 60.6 | 60.6 | 59.2 | 76.5 | 99.6 | 104.0 |
| 52.5° | 7297.9 | 1602.8 | 161.7 | 73.6 | 47.7 | 43.3 | 39.0 | 43.3 | 53.4 | 63.5 | 65.0 |
| 55° | 7284.9 | 1588.4 | 135.7 | 59.2 | 33.2 | 28.9 | 21.7 | 21.7 | 21.7 | 20.2 | 17.3 |
| 57.5° | 7385.9 | 1611.5 | 114.1 | 47.7 | 24.5 | 18.8 | 11.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 7489.9 | 1636.0 | 98.2 | 33.2 | 17.3 | 10.1 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 7316.6 | 1581.2 | 82.3 | 20.2 | 13.0 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 6427.1 | 1345.8 | 65.0 | 14.4 | 8.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 4571.6 | 901.0 | 43.3 | 8.7 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 2086.5 | 376.9 | 27.4 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 446.2 | 117.0 | 18.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 91.0 | 85.2 | 7.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 28.9 | 134.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 17.3 | 96.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 2.9 | 14.4 | 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)