

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: P453515

Luminaire Tested: **GLAN-SA4C-740-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4C-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22267 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

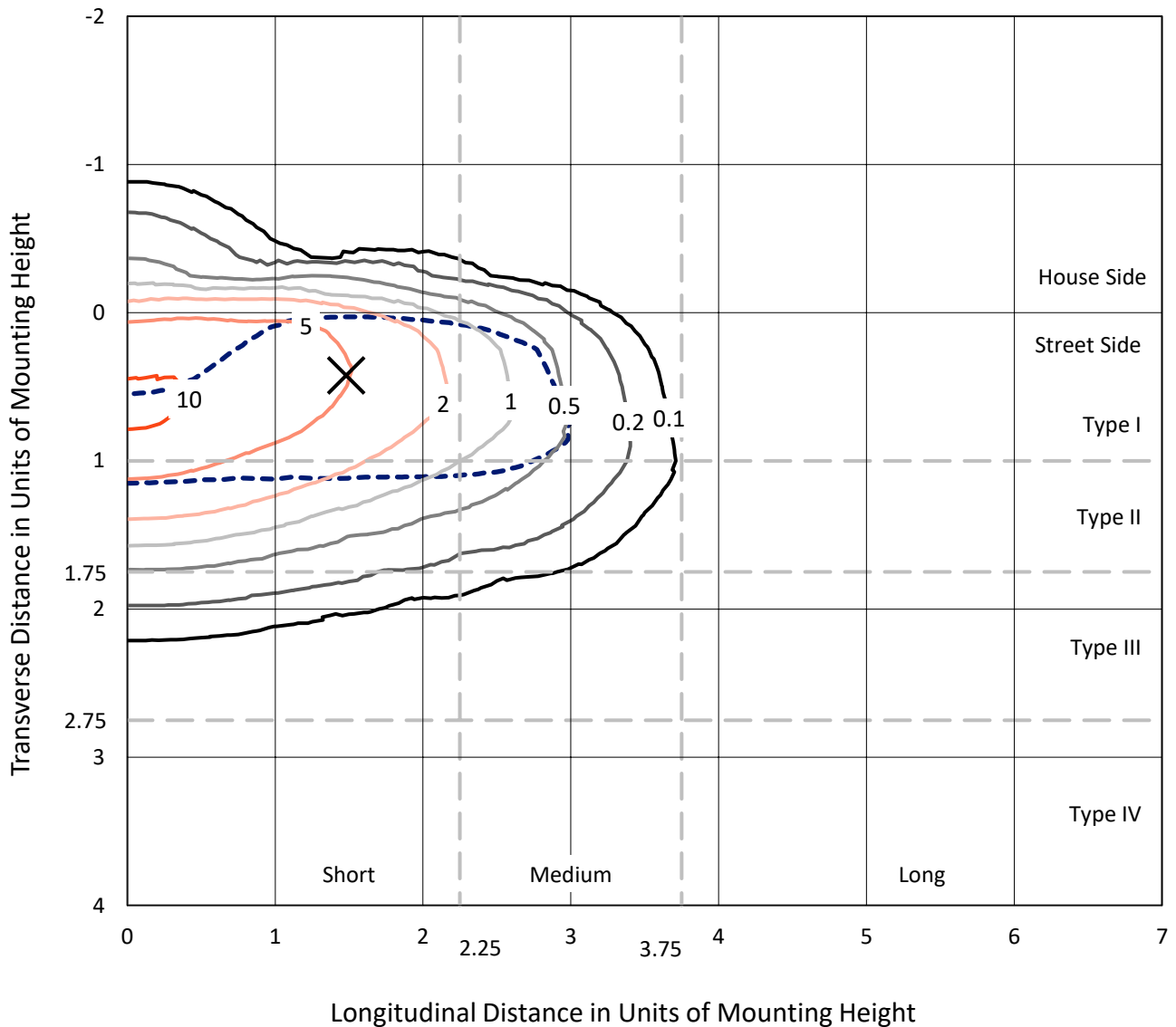
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

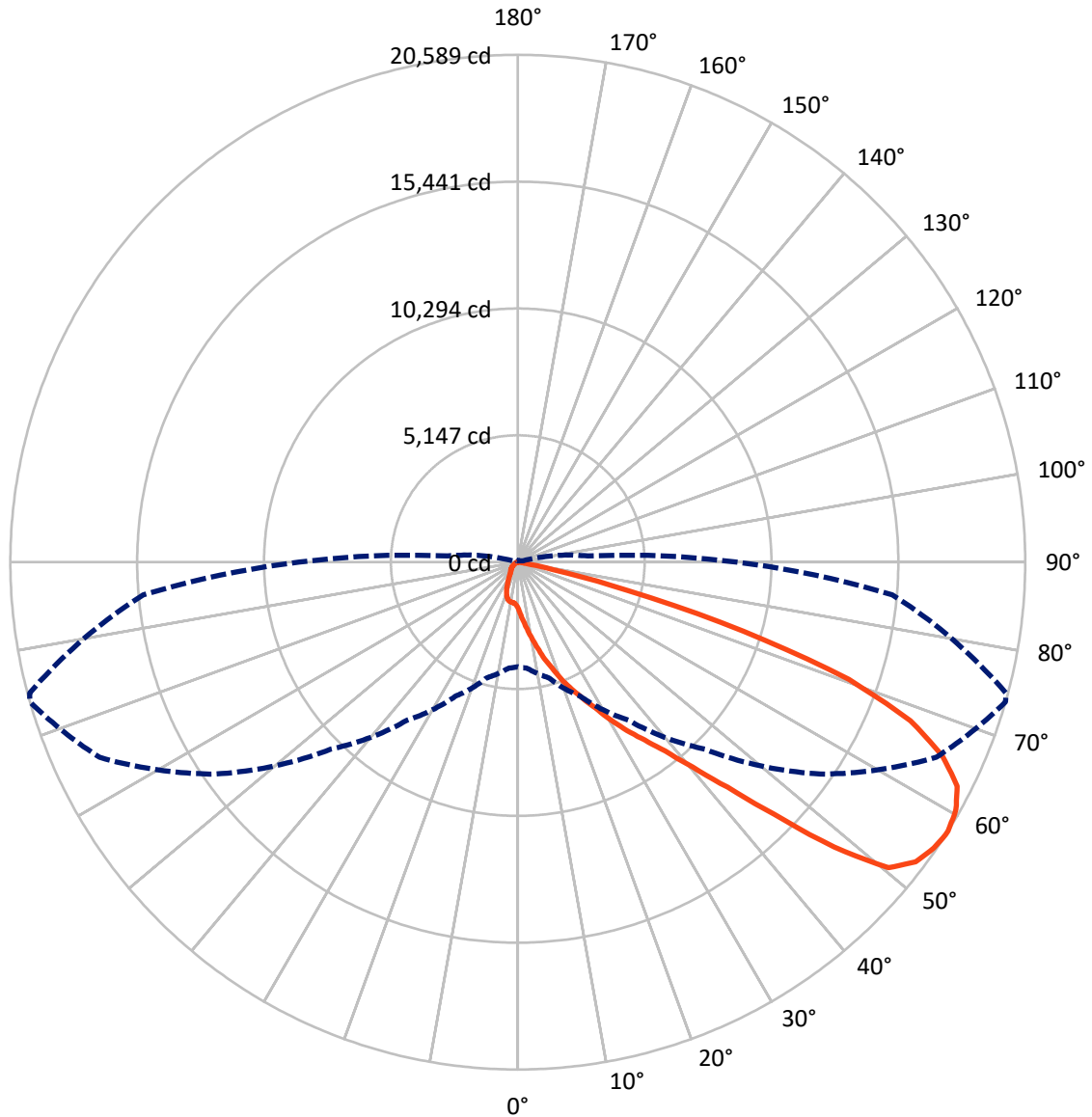
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1284.3 | 0.0 | 1284.3 |
| | % Fixture | 5.8 | 0.0 | 5.8 |
| Street Side | Lumens | 20982.7 | 0.0 | 20982.7 |
| | % Fixture | 94.2 | 0.0 | 94.2 |
| Total | Lumens | 22267.0 | 0.0 | 22267.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 225.1 | 1.0 |
| 10°-20° | 887.2 | 4.0 |
| 20°-30° | 1898.4 | 8.5 |
| 30°-40° | 3489.3 | 15.7 |
| 40°-50° | 5349.1 | 24.0 |
| 50°-60° | 5658.6 | 25.4 |
| 60°-70° | 3695.2 | 16.6 |
| 70°-80° | 1009.7 | 4.5 |
| 80°-90° | 54.3 | 0.2 |
| 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° | 22267.0 | 100.0 |
| 0°-180° | 22267.0 | 100.0 |

Coefficient of Utilization



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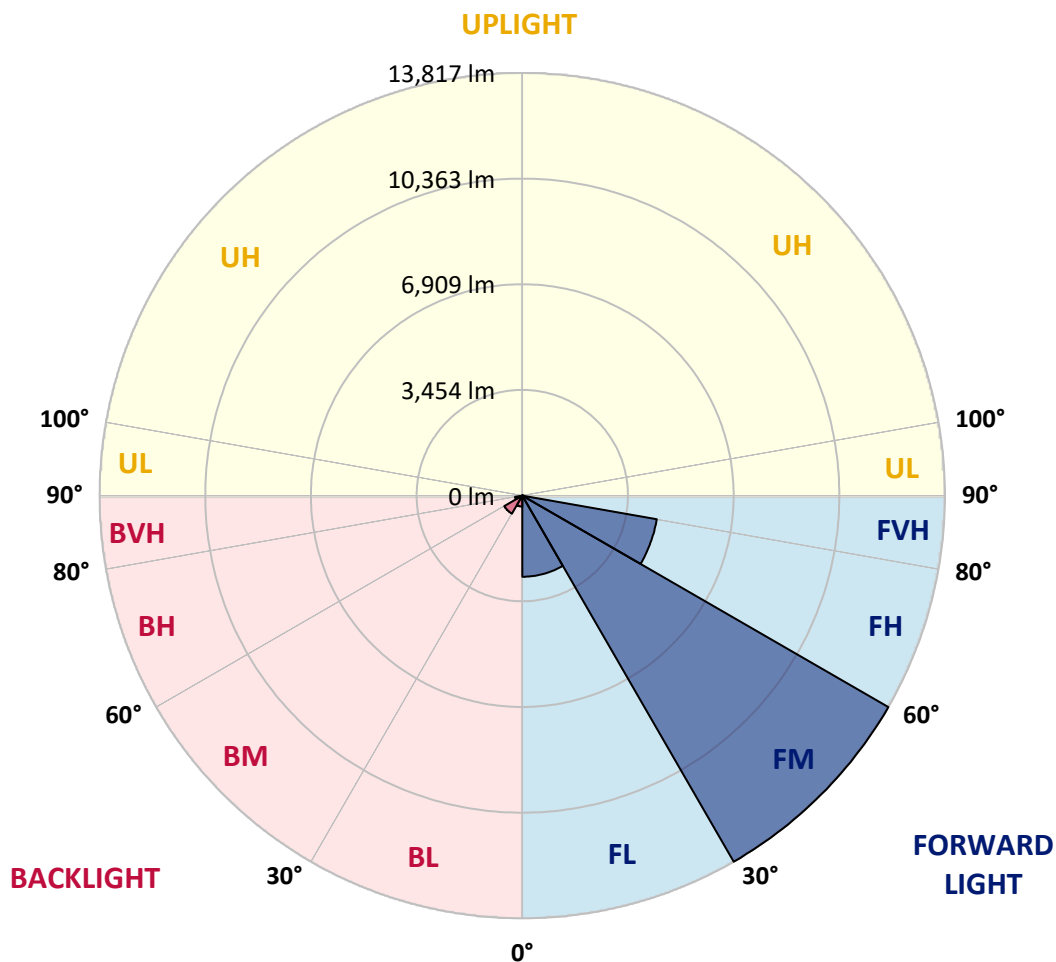
CATALOG NUMBER: GLAN-SA4C-740-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2652.0 | 11.9 | | | |
| FM (30°-60°) | 13817.1 | 62.1 | | | |
| FH (60°-80°) | 4463.8 | 20.0 | | | G2/5000 |
| FVH (80°-90°) | 49.9 | 0.2 | | | G1/100 |
| BL (0°-30°) | 358.7 | 1.6 | B1/500 | | |
| BM (30°-60°) | 679.9 | 3.1 | B1/1000 | | |
| BH (60°-80°) | 241.1 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 74° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1864.8 | 1864.8 | 1864.8 | 1864.8 | 1864.8 | 1864.8 | 1864.8 | 1864.8 | 1864.8 | 1864.8 | 1864.8 |
| 2.5° | 2728.8 | 2704.2 | 2655.0 | 2638.1 | 2565.9 | 2453.6 | 2355.3 | 2223.0 | 2118.5 | 2107.7 | 1981.7 |
| 5° | 3654.3 | 3599.0 | 3575.9 | 3465.2 | 3291.5 | 3128.6 | 2848.8 | 2636.6 | 2392.2 | 2373.7 | 2120.0 |
| 7.5° | 4546.0 | 4469.1 | 4446.1 | 4341.5 | 4138.6 | 3881.9 | 3519.0 | 3133.2 | 2745.7 | 2710.4 | 2306.1 |
| 10° | 5191.7 | 5202.5 | 5161.0 | 5091.8 | 4927.3 | 4665.9 | 4218.5 | 3691.2 | 3139.3 | 3094.7 | 2515.1 |
| 12.5° | 5654.5 | 5652.9 | 5660.6 | 5659.1 | 5571.4 | 5373.1 | 4902.7 | 4295.4 | 3572.9 | 3485.2 | 2755.0 |
| 15° | 5955.8 | 5960.4 | 5983.5 | 6063.4 | 6072.6 | 5949.6 | 5557.6 | 4873.5 | 4075.6 | 3966.4 | 3014.8 |
| 17.5° | 6260.2 | 6292.5 | 6329.4 | 6404.7 | 6472.3 | 6423.1 | 6146.4 | 5476.1 | 4530.6 | 4449.2 | 3293.1 |
| 20° | 6762.9 | 6807.5 | 6786.0 | 6832.1 | 6867.4 | 6872.1 | 6658.4 | 6032.6 | 5082.6 | 4945.7 | 3611.3 |
| 22.5° | 7566.9 | 7565.4 | 7510.1 | 7427.0 | 7357.9 | 7354.8 | 7161.1 | 6604.6 | 5583.7 | 5451.5 | 3931.1 |
| 25° | 8583.1 | 8587.8 | 8480.1 | 8243.4 | 8071.2 | 7860.6 | 7637.7 | 7105.7 | 6120.3 | 5957.3 | 4267.7 |
| 27.5° | 9748.5 | 9719.3 | 9556.3 | 9230.4 | 8889.1 | 8529.3 | 8208.0 | 7688.4 | 6689.1 | 6553.8 | 4653.6 |
| 30° | 10795.4 | 10784.7 | 10594.0 | 10195.9 | 9746.9 | 9385.7 | 8919.8 | 8418.6 | 7425.5 | 7259.5 | 5085.6 |
| 32.5° | 11770.1 | 11785.5 | 11521.1 | 11109.1 | 10675.5 | 10258.9 | 9766.9 | 9116.6 | 8148.1 | 7912.9 | 5556.1 |
| 35° | 12531.1 | 12546.5 | 12272.8 | 11930.0 | 11484.2 | 11138.3 | 10669.4 | 9860.7 | 8861.4 | 8663.1 | 6097.2 |
| 37.5° | 12937.0 | 12957.0 | 12798.6 | 12540.3 | 12262.1 | 12088.4 | 11651.7 | 10818.5 | 9728.5 | 9608.6 | 6736.8 |
| 40° | 13013.9 | 13036.9 | 12967.7 | 12898.6 | 12883.2 | 13007.7 | 12880.1 | 11946.9 | 10930.7 | 10743.2 | 7689.9 |
| 42.5° | 12783.2 | 12814.0 | 12844.7 | 12998.5 | 13312.1 | 13768.7 | 14213.0 | 13478.1 | 12478.8 | 12226.7 | 8855.3 |
| 45° | 12177.5 | 12174.4 | 12295.9 | 12694.1 | 13396.7 | 14371.4 | 15605.9 | 15395.2 | 14588.1 | 14288.3 | 10501.8 |
| 47.5° | 11141.3 | 11126.0 | 11388.9 | 11956.1 | 13050.8 | 14482.0 | 16742.0 | 17722.8 | 17280.1 | 17003.3 | 12271.3 |
| 50° | 9562.5 | 9637.8 | 10051.3 | 10843.1 | 12191.4 | 14146.9 | 17092.5 | 19249.4 | 19489.3 | 19195.6 | 13701.1 |
| 52.5° | 7713.0 | 7709.9 | 8358.7 | 9433.3 | 10918.4 | 13409.0 | 16848.1 | 19526.2 | 20207.2 | 19982.8 | 14405.2 |
| 55° | 5708.3 | 5748.2 | 6423.1 | 7507.0 | 9265.7 | 12062.2 | 16050.2 | 19241.7 | 20480.9 | 20322.5 | 14869.5 |
| 57° | 4246.2 | 4316.9 | 4858.1 | 6005.0 | 7826.8 | 10729.3 | 14987.8 | 18732.9 | 20588.5 | 20502.4 | 15255.3 |
| 57.5° | 3963.3 | 3966.4 | 4493.7 | 5536.1 | 7405.5 | 10217.4 | 14683.4 | 18520.7 | 20585.4 | 20537.8 | 15318.4 |
| 60° | 2439.8 | 2516.7 | 2881.0 | 3742.0 | 5420.8 | 7974.3 | 12643.3 | 17301.6 | 20425.5 | 20494.7 | 15587.4 |
| 62.5° | 1460.5 | 1492.8 | 1729.5 | 2255.3 | 3494.4 | 5820.5 | 10346.5 | 15741.2 | 20008.9 | 20219.5 | 15569.0 |
| 65° | 939.3 | 947.0 | 1054.6 | 1365.2 | 2184.6 | 3934.1 | 7972.8 | 13679.5 | 18931.2 | 19318.6 | 14960.2 |
| 67.5° | 725.6 | 737.9 | 781.0 | 896.3 | 1266.8 | 2450.6 | 5639.1 | 11479.6 | 17187.8 | 17687.5 | 13484.3 |
| 70° | 644.2 | 650.3 | 665.7 | 702.6 | 837.9 | 1383.6 | 3508.3 | 8967.5 | 14253.0 | 14394.4 | 10552.5 |
| 72.5° | 525.8 | 542.7 | 590.4 | 602.6 | 664.1 | 864.0 | 1952.5 | 6018.8 | 9576.3 | 9611.6 | 5903.5 |
| 75° | 407.4 | 410.5 | 481.2 | 516.6 | 559.6 | 595.0 | 871.7 | 3034.8 | 4599.8 | 4353.8 | 2275.3 |
| 77.5° | 304.4 | 318.2 | 350.5 | 395.1 | 456.6 | 425.9 | 390.5 | 1143.8 | 1428.2 | 1402.1 | 661.1 |
| 80° | 195.2 | 202.9 | 244.4 | 296.7 | 355.1 | 278.3 | 219.8 | 335.1 | 313.6 | 322.8 | 158.3 |
| 82.5° | 98.4 | 99.9 | 156.8 | 241.4 | 226.0 | 139.9 | 138.4 | 136.8 | 116.8 | 115.3 | 73.8 |
| 85° | 10.8 | 23.1 | 101.5 | 138.4 | 101.5 | 46.1 | 64.6 | 63.0 | 61.5 | 63.0 | 43.0 |
| 87.5° | 1.5 | 1.5 | 16.9 | 20.0 | 13.8 | 15.4 | 18.4 | 20.0 | 24.6 | 23.1 | 18.4 |
| 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° | 1864.8 | 1864.8 | 1864.8 | 1864.8 | 1864.8 | 1864.8 | 1864.8 | 1864.8 | 1864.8 | 1864.8 | 1864.8 |
| 2.5° | 1920.2 | 1858.7 | 1744.9 | 1635.8 | 1554.3 | 1502.0 | 1434.4 | 1409.8 | 1374.4 | 1369.8 | 1352.9 |
| 5° | 2003.2 | 1886.4 | 1688.0 | 1531.2 | 1405.2 | 1309.8 | 1226.8 | 1157.6 | 1102.3 | 1090.0 | 1096.1 |
| 7.5° | 2121.6 | 1947.9 | 1671.1 | 1457.4 | 1282.2 | 1119.2 | 987.0 | 905.5 | 847.1 | 825.6 | 828.6 |
| 10° | 2255.3 | 2029.3 | 1668.0 | 1379.0 | 1111.5 | 911.7 | 767.1 | 694.9 | 661.1 | 648.8 | 634.9 |
| 12.5° | 2413.7 | 2123.1 | 1660.4 | 1257.6 | 924.0 | 727.2 | 624.2 | 581.1 | 548.8 | 539.6 | 539.6 |
| 15° | 2592.0 | 2223.0 | 1623.5 | 1106.9 | 750.2 | 601.1 | 531.9 | 498.1 | 487.3 | 478.1 | 478.1 |
| 17.5° | 2778.0 | 2321.4 | 1546.6 | 920.9 | 622.6 | 515.0 | 472.0 | 452.0 | 436.6 | 425.9 | 425.9 |
| 20° | 2990.2 | 2418.3 | 1423.6 | 756.4 | 525.8 | 459.7 | 425.9 | 402.8 | 390.5 | 381.3 | 378.2 |
| 22.5° | 3191.6 | 2496.7 | 1266.8 | 621.1 | 458.1 | 413.6 | 382.8 | 358.2 | 345.9 | 341.3 | 341.3 |
| 25° | 3400.7 | 2544.4 | 1077.7 | 513.5 | 418.2 | 375.1 | 341.3 | 321.3 | 310.5 | 307.5 | 305.9 |
| 27.5° | 3603.6 | 2572.0 | 911.7 | 448.9 | 381.3 | 339.8 | 307.5 | 292.1 | 281.3 | 278.3 | 279.8 |
| 30° | 3849.6 | 2576.6 | 750.2 | 402.8 | 349.0 | 305.9 | 276.7 | 262.9 | 256.7 | 253.7 | 252.1 |
| 32.5° | 4098.6 | 2570.5 | 630.3 | 375.1 | 318.2 | 276.7 | 252.1 | 241.4 | 236.8 | 232.1 | 232.1 |
| 35° | 4378.4 | 2538.2 | 536.5 | 347.4 | 289.0 | 252.1 | 230.6 | 221.4 | 215.2 | 210.6 | 209.1 |
| 37.5° | 4725.9 | 2521.3 | 482.7 | 316.7 | 262.9 | 229.1 | 209.1 | 199.9 | 195.2 | 189.1 | 187.6 |
| 40° | 5273.2 | 2596.6 | 465.8 | 289.0 | 236.8 | 207.5 | 189.1 | 178.3 | 172.2 | 166.0 | 164.5 |
| 42.5° | 5955.8 | 2728.8 | 438.2 | 261.4 | 213.7 | 187.6 | 169.1 | 156.8 | 146.1 | 138.4 | 135.3 |
| 45° | 6839.8 | 2902.6 | 395.1 | 232.1 | 193.7 | 166.0 | 149.1 | 133.8 | 119.9 | 113.8 | 112.2 |
| 47.5° | 7766.8 | 3070.1 | 356.7 | 209.1 | 172.2 | 147.6 | 129.1 | 112.2 | 99.9 | 95.3 | 93.8 |
| 50° | 8335.6 | 3104.0 | 332.1 | 182.9 | 150.7 | 127.6 | 109.2 | 93.8 | 86.1 | 81.5 | 81.5 |
| 52.5° | 8595.4 | 3050.1 | 298.3 | 159.9 | 130.7 | 112.2 | 93.8 | 81.5 | 76.9 | 73.8 | 72.3 |
| 55° | 8776.9 | 2967.1 | 253.7 | 138.4 | 112.2 | 95.3 | 83.0 | 73.8 | 67.6 | 64.6 | 63.0 |
| 57° | 8882.9 | 2854.9 | 219.8 | 121.5 | 96.9 | 83.0 | 73.8 | 66.1 | 60.0 | 53.8 | 53.8 |
| 57.5° | 8887.5 | 2811.9 | 210.6 | 119.9 | 92.2 | 79.9 | 72.3 | 64.6 | 56.9 | 50.7 | 49.2 |
| 60° | 8750.7 | 2516.7 | 169.1 | 101.5 | 73.8 | 67.6 | 60.0 | 50.7 | 40.0 | 33.8 | 32.3 |
| 62.5° | 8311.0 | 2141.6 | 139.9 | 86.1 | 60.0 | 52.3 | 43.0 | 38.4 | 27.7 | 20.0 | 20.0 |
| 65° | 7645.4 | 1737.2 | 119.9 | 69.2 | 49.2 | 38.4 | 29.2 | 27.7 | 16.9 | 9.2 | 7.7 |
| 67.5° | 6683.0 | 1352.9 | 101.5 | 56.9 | 41.5 | 27.7 | 20.0 | 18.4 | 9.2 | 3.1 | 0.0 |
| 70° | 5091.8 | 922.4 | 84.6 | 46.1 | 30.7 | 20.0 | 13.8 | 10.8 | 6.1 | 1.5 | 0.0 |
| 72.5° | 2934.8 | 507.3 | 70.7 | 35.4 | 23.1 | 15.4 | 10.8 | 6.1 | 6.1 | 0.0 | 0.0 |
| 75° | 1048.5 | 218.3 | 53.8 | 26.1 | 18.4 | 12.3 | 7.7 | 3.1 | 4.6 | 1.5 | 0.0 |
| 77.5° | 333.6 | 116.8 | 35.4 | 20.0 | 15.4 | 9.2 | 6.1 | 3.1 | 3.1 | 1.5 | 0.0 |
| 80° | 98.4 | 61.5 | 21.5 | 16.9 | 10.8 | 7.7 | 4.6 | 1.5 | 3.1 | 1.5 | 0.0 |
| 82.5° | 53.8 | 30.7 | 16.9 | 12.3 | 10.8 | 6.1 | 4.6 | 1.5 | 1.5 | 1.5 | 0.0 |
| 85° | 27.7 | 18.4 | 13.8 | 12.3 | 10.8 | 6.1 | 4.6 | 1.5 | 0.0 | 1.5 | 1.5 |
| 87.5° | 15.4 | 13.8 | 13.8 | 12.3 | 10.8 | 7.7 | 4.6 | 1.5 | 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)