

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: P321611

Luminaire Tested: **GAN-SA7C-740-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38478 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

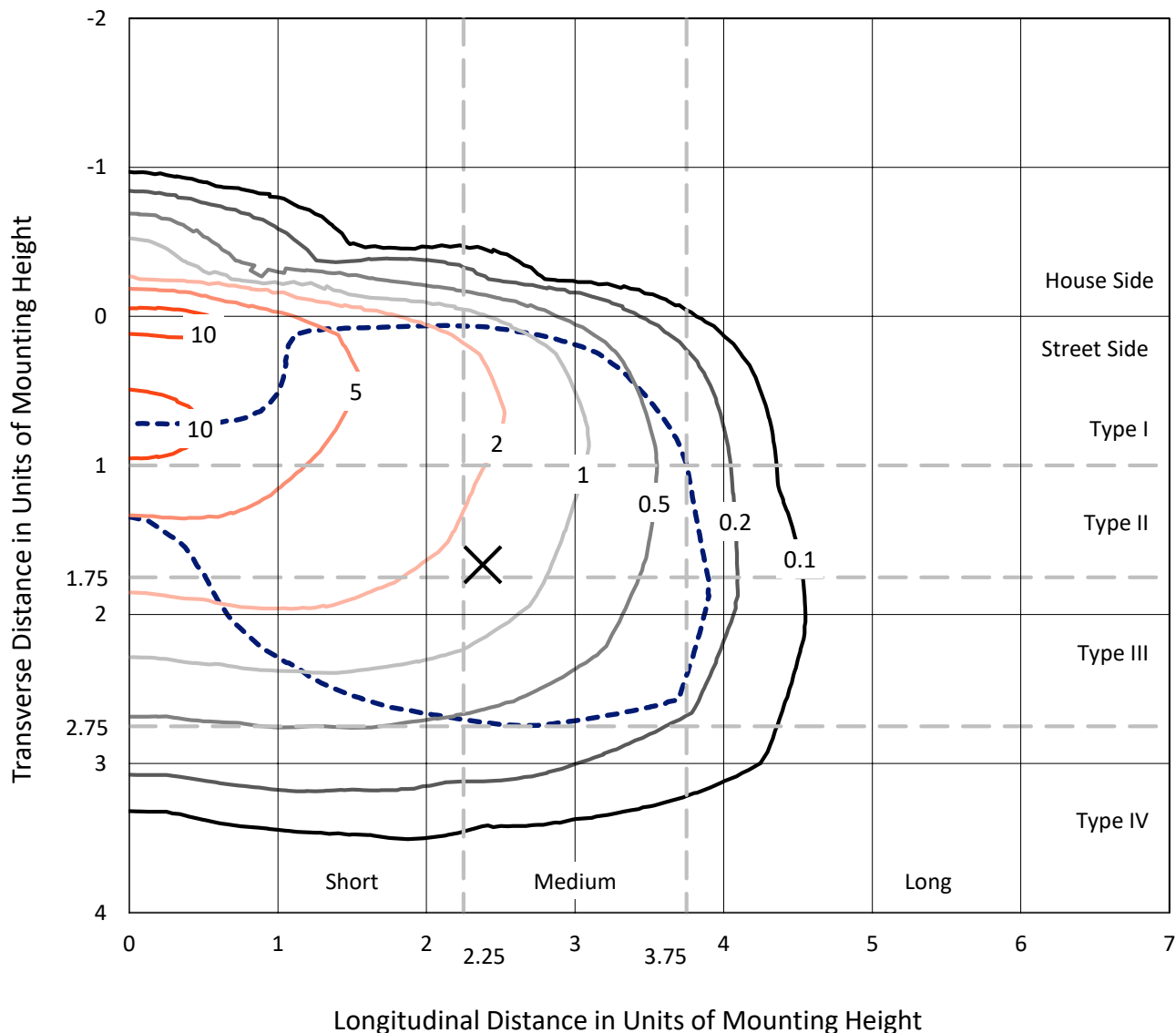
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

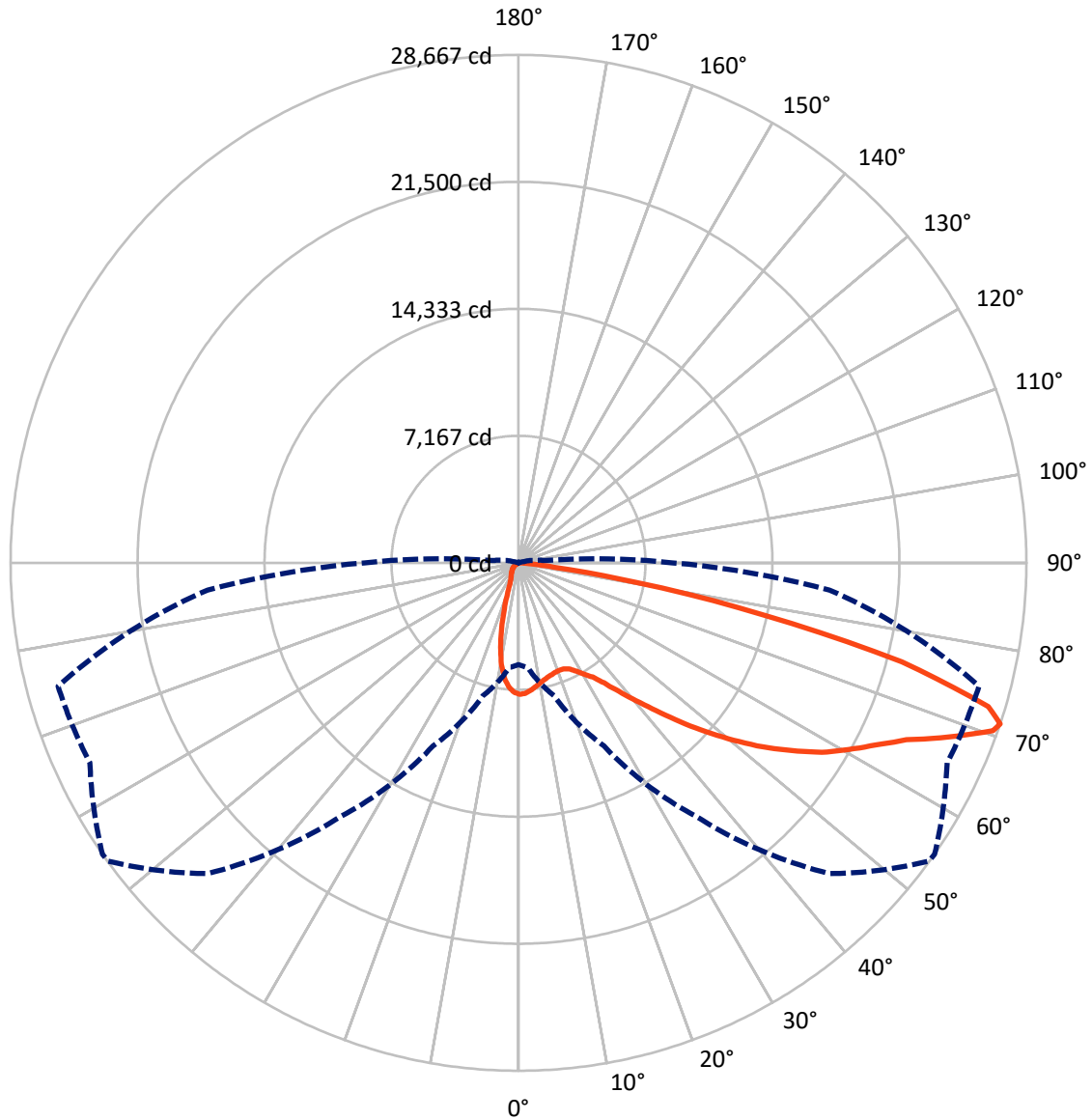
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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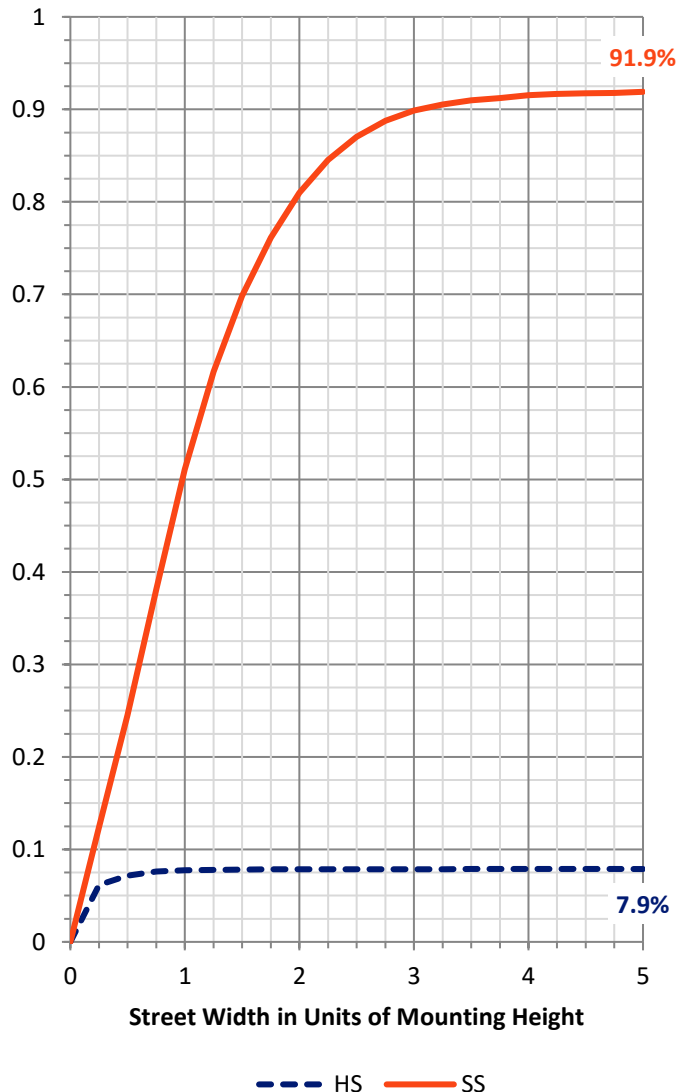
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3046.4 | 0.0 | 3046.4 |
| | % Fixture | 7.9 | 0.0 | 7.9 |
| Street Side | Lumens | 35431.6 | 0.0 | 35431.6 |
| | % Fixture | 92.1 | 0.0 | 92.1 |
| Total | Lumens | 38478.0 | 0.0 | 38478.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 632.7 | 1.6 |
| 10°-20° | 1428.4 | 3.7 |
| 20°-30° | 2295.5 | 6.0 |
| 30°-40° | 3900.1 | 10.1 |
| 40°-50° | 6053.5 | 15.7 |
| 50°-60° | 8138.7 | 21.2 |
| 60°-70° | 9956.3 | 25.9 |
| 70°-80° | 5821.2 | 15.1 |
| 80°-90° | 251.6 | 0.7 |
| 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° | 38478.0 | 100.0 |
| 0°-180° | 38478.0 | 100.0 |

Coefficient of Utilization

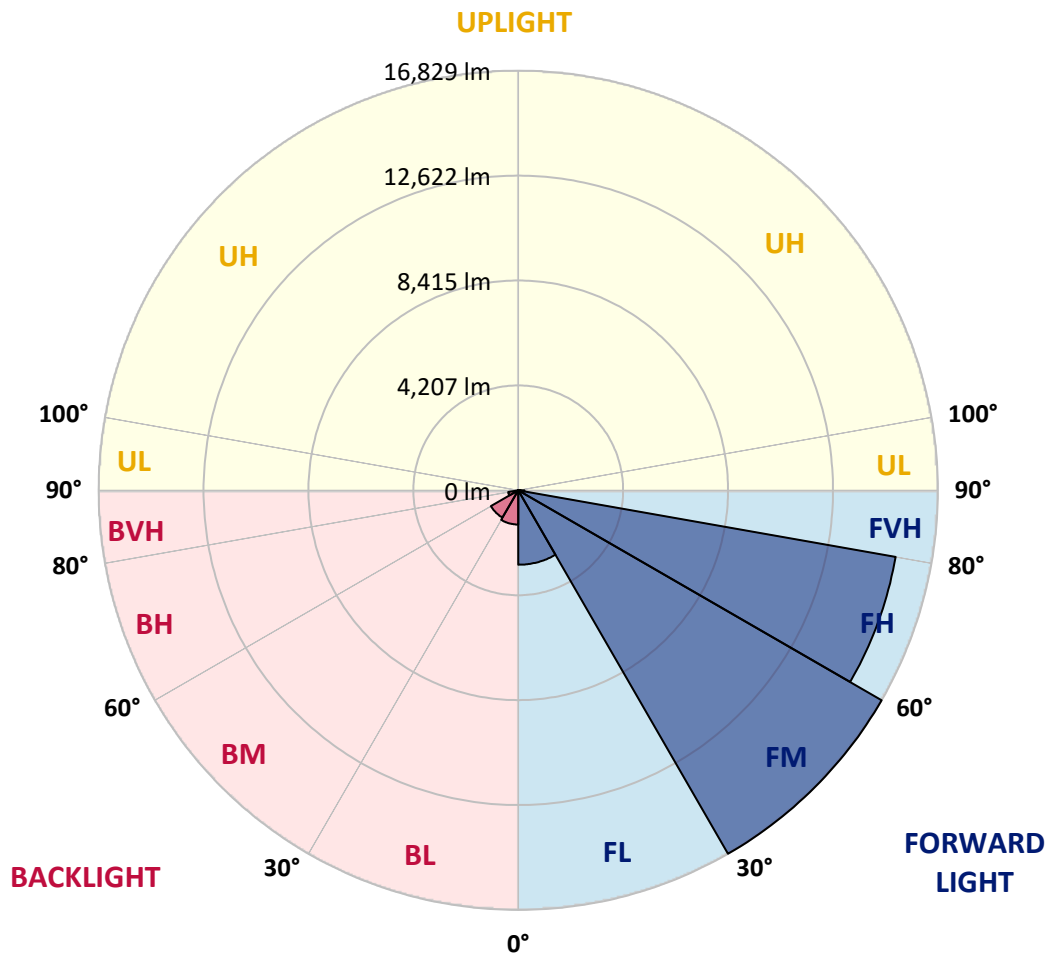


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2985.4 | 7.8 | | | |
| FM (30°-60°) | 16829.2 | 43.7 | | | |
| FH (60°-80°) | 15369.4 | 39.9 | | | G5 |
| FVH (80°-90°) | 247.7 | 0.6 | | | G3/500 |
| BL (0°-30°) | 1371.2 | 3.6 | B3/2500 | | |
| BM (30°-60°) | 1263.1 | 3.3 | B2/2500 | | |
| BH (60°-80°) | 408.1 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7420.6 | 7420.6 | 7420.6 | 7420.6 | 7420.6 | 7420.6 | 7420.6 | 7420.6 | 7420.6 | 7420.6 | 7420.6 |
| 2.5° | 7202.9 | 7211.6 | 7242.7 | 7256.5 | 7289.3 | 7344.6 | 7372.2 | 7374.0 | 7418.9 | 7436.2 | 7450.0 |
| 5° | 6693.2 | 6745.1 | 6796.9 | 6852.2 | 6952.4 | 7085.4 | 7216.7 | 7228.8 | 7374.0 | 7481.1 | 7538.1 |
| 7.5° | 6254.4 | 6301.0 | 6363.2 | 6451.4 | 6593.0 | 6802.1 | 7021.5 | 7047.4 | 7322.1 | 7565.8 | 7693.6 |
| 10° | 5803.5 | 5841.5 | 5931.3 | 6060.9 | 6256.1 | 6536.0 | 6831.5 | 6874.7 | 7275.5 | 7679.8 | 7904.4 |
| 12.5° | 5321.4 | 5343.9 | 5452.7 | 5639.3 | 5926.1 | 6282.0 | 6670.8 | 6727.8 | 7246.1 | 7811.1 | 8153.2 |
| 15° | 4955.1 | 4965.5 | 5069.2 | 5262.7 | 5590.9 | 6054.0 | 6546.4 | 6615.5 | 7253.0 | 7968.3 | 8424.4 |
| 17.5° | 4861.8 | 4867.0 | 4922.3 | 5055.4 | 5345.6 | 5850.1 | 6447.9 | 6532.6 | 7273.8 | 8122.1 | 8697.4 |
| 20° | 5240.2 | 5203.9 | 5146.9 | 5126.2 | 5250.6 | 5727.4 | 6389.2 | 6484.2 | 7301.4 | 8258.6 | 8942.8 |
| 22.5° | 6278.6 | 6171.5 | 5934.8 | 5618.6 | 5426.8 | 5736.1 | 6404.7 | 6499.7 | 7389.5 | 8426.2 | 9226.1 |
| 25° | 7819.7 | 7671.1 | 7268.6 | 6646.6 | 6048.8 | 5984.9 | 6534.3 | 6631.0 | 7560.6 | 8626.6 | 9497.4 |
| 27.5° | 9573.4 | 9426.5 | 8934.1 | 8046.1 | 7026.7 | 6477.3 | 6831.5 | 6921.3 | 7814.5 | 8804.5 | 9704.7 |
| 30° | 11252.7 | 11211.3 | 10630.8 | 9621.8 | 8256.8 | 7275.5 | 7215.0 | 7291.0 | 8002.9 | 8911.7 | 9868.8 |
| 32.5° | 12676.4 | 12610.7 | 12144.2 | 11162.9 | 9664.9 | 8234.4 | 7666.0 | 7688.4 | 8144.5 | 9049.9 | 10083.1 |
| 35° | 13996.4 | 13915.2 | 13505.7 | 12577.9 | 11109.3 | 9405.8 | 8360.5 | 8327.7 | 8453.8 | 9328.0 | 10394.1 |
| 37.5° | 15148.8 | 15223.1 | 14768.7 | 13885.8 | 12405.1 | 10623.8 | 9296.9 | 9198.5 | 8937.6 | 9780.7 | 10845.0 |
| 40° | 16112.9 | 16112.9 | 15876.2 | 15140.1 | 13804.6 | 11883.4 | 10356.0 | 10226.5 | 9664.9 | 10478.7 | 11416.9 |
| 42.5° | 16460.1 | 16534.4 | 16622.5 | 16206.2 | 15057.2 | 13193.0 | 11536.1 | 11401.3 | 10689.5 | 11468.7 | 12139.1 |
| 45° | 16480.9 | 16598.3 | 17049.3 | 17047.6 | 16188.9 | 14494.0 | 12866.4 | 12802.5 | 12002.6 | 12740.3 | 13034.0 |
| 47.5° | 16188.9 | 16335.7 | 17078.7 | 17500.2 | 17085.6 | 15705.1 | 14321.2 | 14241.7 | 13545.4 | 14298.7 | 13970.5 |
| 50° | 15737.9 | 15900.3 | 16764.2 | 17678.2 | 17695.5 | 16759.0 | 15853.7 | 15734.5 | 15243.8 | 16080.0 | 14938.0 |
| 52.5° | 14931.1 | 15245.5 | 16482.6 | 17719.6 | 18096.3 | 17669.5 | 17311.9 | 17260.1 | 17144.3 | 17795.7 | 15708.6 |
| 55° | 13205.1 | 13554.1 | 15775.9 | 17733.5 | 18467.8 | 18476.4 | 18678.5 | 18692.4 | 18925.6 | 19399.0 | 16282.2 |
| 57.5° | 12389.6 | 12586.5 | 14542.3 | 17799.1 | 19018.9 | 19392.1 | 20071.1 | 20178.2 | 20539.3 | 20921.1 | 16937.0 |
| 60° | 11876.4 | 12109.7 | 13934.2 | 17709.3 | 19884.5 | 20592.9 | 21361.7 | 21398.0 | 21785.0 | 22491.6 | 17823.3 |
| 62.5° | 11467.0 | 11696.8 | 13550.6 | 17363.7 | 20857.2 | 22037.3 | 22623.0 | 22626.4 | 22916.7 | 24362.8 | 18830.6 |
| 65° | 10456.3 | 10649.8 | 12774.9 | 16975.0 | 21499.9 | 23466.1 | 24088.1 | 24065.6 | 24302.3 | 26335.9 | 20000.3 |
| 67.5° | 8994.6 | 9143.2 | 11190.5 | 15501.2 | 21258.0 | 24765.3 | 26299.6 | 26225.3 | 25938.5 | 28041.1 | 20459.8 |
| 70° | 6954.1 | 7007.7 | 8820.1 | 12918.3 | 18991.3 | 25264.7 | 28436.8 | 28398.8 | 26942.3 | 27735.3 | 18775.3 |
| 71° | 5748.2 | 5924.4 | 7773.1 | 11401.3 | 17472.6 | 24803.4 | 28644.1 | 28666.6 | 26690.0 | 26902.6 | 17616.0 |
| 72.5° | 3338.0 | 3488.3 | 5634.1 | 8756.2 | 14834.3 | 22878.7 | 27569.5 | 27731.9 | 25511.7 | 24469.9 | 15046.8 |
| 75° | 715.3 | 765.4 | 2088.8 | 4238.1 | 8160.1 | 16035.1 | 21760.8 | 22339.6 | 20793.3 | 16646.7 | 9068.9 |
| 77.5° | 497.6 | 537.3 | 895.0 | 1923.0 | 2697.0 | 7923.4 | 13517.8 | 14170.9 | 12422.4 | 6256.1 | 2902.6 |
| 80° | 393.9 | 438.8 | 698.0 | 950.3 | 729.1 | 2555.3 | 6332.1 | 6731.3 | 4143.1 | 1396.0 | 488.9 |
| 82.5° | 219.4 | 260.9 | 544.2 | 513.1 | 279.9 | 485.5 | 1772.7 | 2004.2 | 829.3 | 281.6 | 115.8 |
| 85° | 63.9 | 77.7 | 350.7 | 373.2 | 119.2 | 93.3 | 302.4 | 374.9 | 157.2 | 74.3 | 51.8 |
| 87.5° | 0.0 | 0.0 | 169.3 | 143.4 | 34.6 | 13.8 | 27.6 | 31.1 | 31.1 | 31.1 | 34.6 |
| 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° | 7420.6 | 7420.6 | 7420.6 | 7420.6 | 7420.6 | 7420.6 | 7420.6 | 7420.6 | 7420.6 | 7420.6 | 7420.6 |
| 2.5° | 7450.0 | 7462.1 | 7418.9 | 7361.9 | 7301.4 | 7227.1 | 7149.4 | 7088.9 | 7087.2 | 7057.8 | 7028.4 |
| 5° | 7541.6 | 7534.7 | 7415.4 | 7234.0 | 7019.8 | 6796.9 | 6584.4 | 6344.2 | 6264.8 | 6166.3 | 6133.5 |
| 7.5° | 7710.9 | 7662.5 | 7410.3 | 7012.9 | 6542.9 | 6076.4 | 5594.4 | 5108.9 | 4901.6 | 4715.0 | 4682.2 |
| 10° | 7923.4 | 7831.8 | 7377.4 | 6681.1 | 5819.0 | 4958.6 | 4231.2 | 3571.2 | 3281.0 | 3058.1 | 3047.7 |
| 12.5° | 8144.5 | 8004.6 | 7285.9 | 6180.1 | 4870.5 | 3661.1 | 2823.1 | 2173.5 | 1931.6 | 1776.1 | 1789.9 |
| 15° | 8376.1 | 8167.0 | 7088.9 | 5504.6 | 3790.6 | 2484.5 | 1734.6 | 1352.8 | 1256.1 | 1216.3 | 1226.7 |
| 17.5° | 8612.8 | 8279.3 | 6814.2 | 4690.8 | 2724.6 | 1603.3 | 1200.8 | 1093.7 | 1093.7 | 1102.3 | 1105.8 |
| 20° | 8818.4 | 8339.8 | 6409.9 | 3778.6 | 1846.9 | 1167.9 | 1050.5 | 1034.9 | 1043.6 | 1057.4 | 1059.1 |
| 22.5° | 9022.2 | 8343.2 | 5882.9 | 2854.2 | 1292.3 | 1022.8 | 1000.4 | 993.4 | 998.6 | 1014.2 | 1015.9 |
| 25° | 9188.1 | 8301.8 | 5222.9 | 2030.1 | 1031.5 | 964.1 | 953.7 | 950.3 | 953.7 | 972.7 | 972.7 |
| 27.5° | 9255.5 | 8151.5 | 4417.8 | 1427.1 | 924.3 | 898.4 | 895.0 | 898.4 | 903.6 | 917.4 | 919.2 |
| 30° | 9262.4 | 7888.8 | 3540.1 | 1033.2 | 838.0 | 810.3 | 817.2 | 829.3 | 824.1 | 820.7 | 824.1 |
| 32.5° | 9279.7 | 7584.8 | 2684.9 | 850.0 | 765.4 | 722.2 | 713.6 | 713.6 | 692.8 | 680.7 | 673.8 |
| 35° | 9336.7 | 7227.1 | 1947.2 | 763.7 | 691.1 | 641.0 | 608.2 | 570.2 | 530.4 | 509.7 | 504.5 |
| 37.5° | 9426.5 | 6852.2 | 1394.3 | 706.6 | 625.4 | 568.4 | 506.2 | 438.8 | 381.8 | 366.3 | 366.3 |
| 40° | 9590.7 | 6465.2 | 1031.5 | 661.7 | 573.6 | 502.8 | 409.5 | 321.4 | 269.5 | 260.9 | 260.9 |
| 42.5° | 9849.8 | 6057.4 | 822.4 | 622.0 | 528.7 | 435.4 | 312.7 | 233.2 | 195.2 | 190.1 | 188.3 |
| 45° | 10119.3 | 5608.2 | 718.7 | 584.0 | 480.3 | 357.6 | 231.5 | 172.8 | 150.3 | 145.1 | 145.1 |
| 47.5° | 10388.9 | 5129.6 | 668.6 | 547.7 | 433.7 | 278.2 | 172.8 | 136.5 | 126.1 | 126.1 | 127.9 |
| 50° | 10616.9 | 4630.3 | 632.4 | 508.0 | 373.2 | 210.8 | 136.5 | 115.8 | 112.3 | 119.2 | 120.9 |
| 52.5° | 10673.9 | 4139.7 | 587.4 | 457.8 | 298.9 | 160.7 | 112.3 | 101.9 | 101.9 | 101.9 | 101.9 |
| 55° | 10639.4 | 3759.6 | 528.7 | 395.7 | 221.2 | 127.9 | 96.8 | 89.8 | 88.1 | 88.1 | 88.1 |
| 57.5° | 10756.9 | 3534.9 | 423.3 | 307.5 | 159.0 | 103.7 | 84.7 | 79.5 | 76.0 | 74.3 | 74.3 |
| 60° | 10993.6 | 3388.1 | 302.4 | 221.2 | 119.2 | 86.4 | 72.6 | 67.4 | 62.2 | 58.7 | 58.7 |
| 62.5° | 11308.0 | 3260.2 | 224.6 | 164.1 | 91.6 | 69.1 | 60.5 | 55.3 | 48.4 | 44.9 | 44.9 |
| 65° | 11549.9 | 3032.2 | 171.0 | 122.7 | 69.1 | 55.3 | 46.6 | 44.9 | 34.6 | 31.1 | 29.4 |
| 67.5° | 11180.2 | 2531.1 | 138.2 | 89.8 | 51.8 | 43.2 | 36.3 | 34.6 | 20.7 | 17.3 | 17.3 |
| 70° | 9588.9 | 1762.3 | 110.6 | 65.7 | 38.0 | 34.6 | 29.4 | 22.5 | 15.5 | 13.8 | 13.8 |
| 71° | 8695.7 | 1472.0 | 100.2 | 55.3 | 32.8 | 32.8 | 27.6 | 19.0 | 13.8 | 12.1 | 12.1 |
| 72.5° | 7223.7 | 1045.3 | 84.7 | 43.2 | 29.4 | 34.6 | 29.4 | 17.3 | 13.8 | 12.1 | 10.4 |
| 75° | 4193.2 | 437.1 | 58.7 | 29.4 | 22.5 | 41.5 | 38.0 | 15.5 | 10.4 | 8.6 | 8.6 |
| 77.5° | 1261.2 | 160.7 | 32.8 | 19.0 | 17.3 | 36.3 | 43.2 | 13.8 | 5.2 | 1.7 | 1.7 |
| 80° | 229.8 | 69.1 | 20.7 | 12.1 | 12.1 | 22.5 | 32.8 | 6.9 | 0.0 | 0.0 | 0.0 |
| 82.5° | 81.2 | 34.6 | 12.1 | 6.9 | 5.2 | 10.4 | 15.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 46.6 | 24.2 | 6.9 | 3.5 | 0.0 | 1.7 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 31.1 | 6.9 | 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)