

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: P322286

Luminaire Tested: **GAN-SA2C-750-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-750-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10546 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

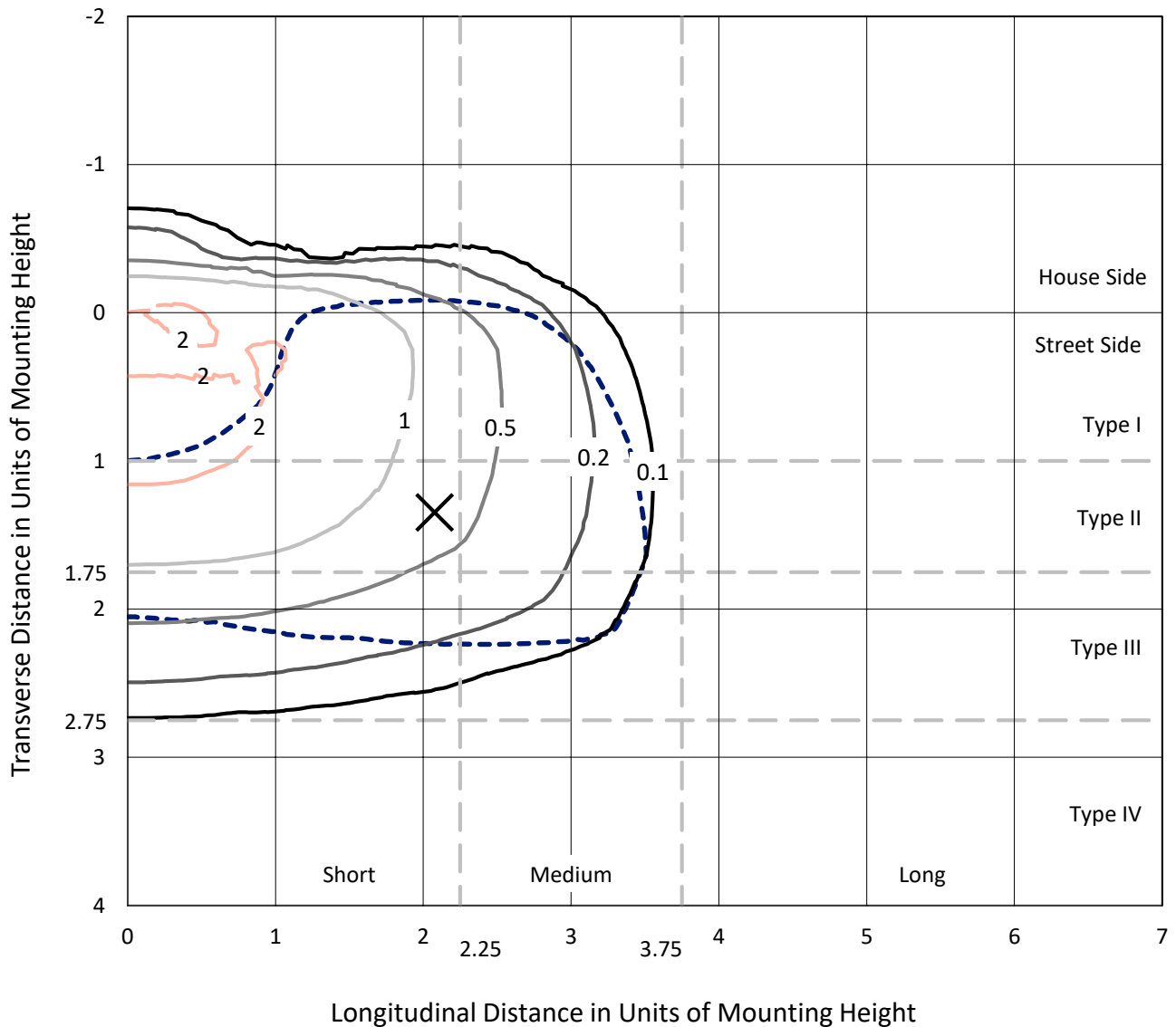
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

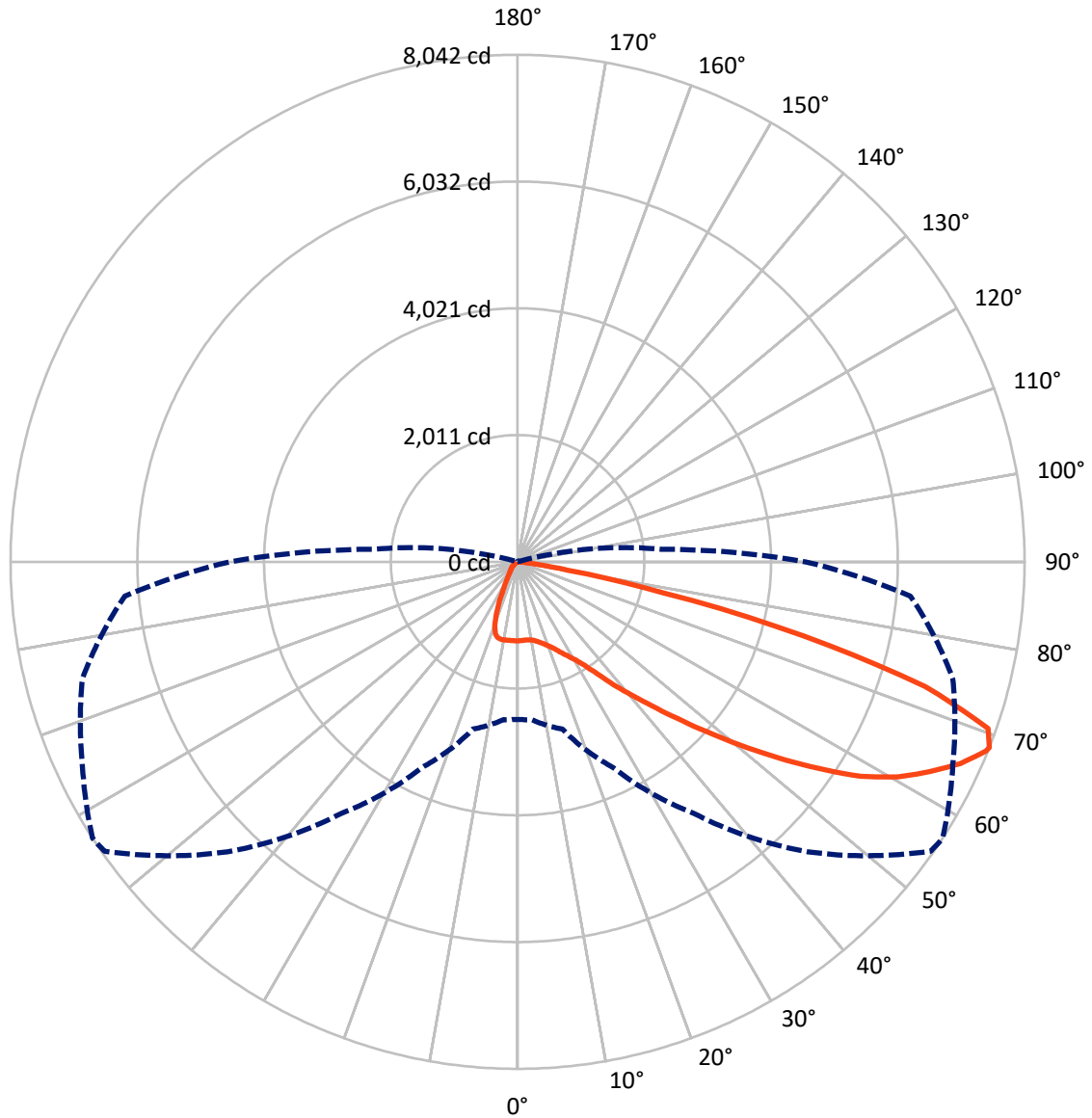
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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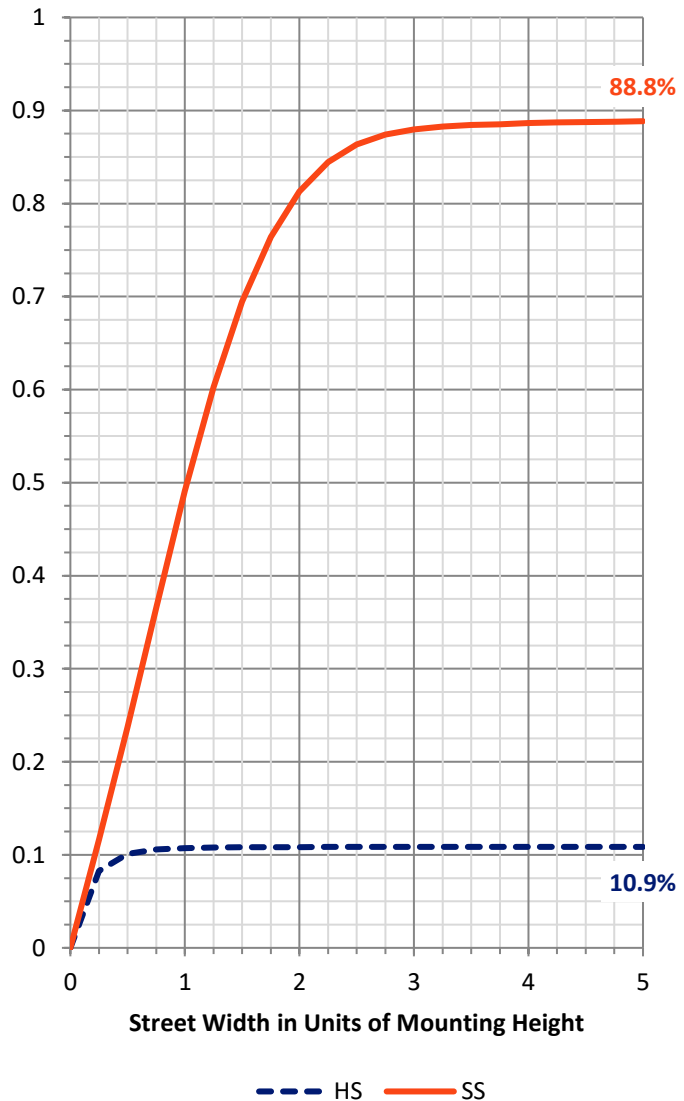
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1156.4 | 0.0 | 1156.4 |
| | % Fixture | 11.0 | 0.0 | 11.0 |
| Street Side | Lumens | 9389.6 | 0.0 | 9389.6 |
| | % Fixture | 89.0 | 0.0 | 89.0 |
| Total | Lumens | 10546.0 | 0.0 | 10546.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 117.3 | 1.1 |
| 10°-20° | 325.0 | 3.1 |
| 20°-30° | 560.6 | 5.3 |
| 30°-40° | 967.6 | 9.2 |
| 40°-50° | 1655.1 | 15.7 |
| 50°-60° | 2648.0 | 25.1 |
| 60°-70° | 3059.5 | 29.0 |
| 70°-80° | 1169.1 | 11.1 |
| 80°-90° | 43.8 | 0.4 |
| 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° | 10546.0 | 100.0 |
| 0°-180° | 10546.0 | 100.0 |

Coefficient of Utilization



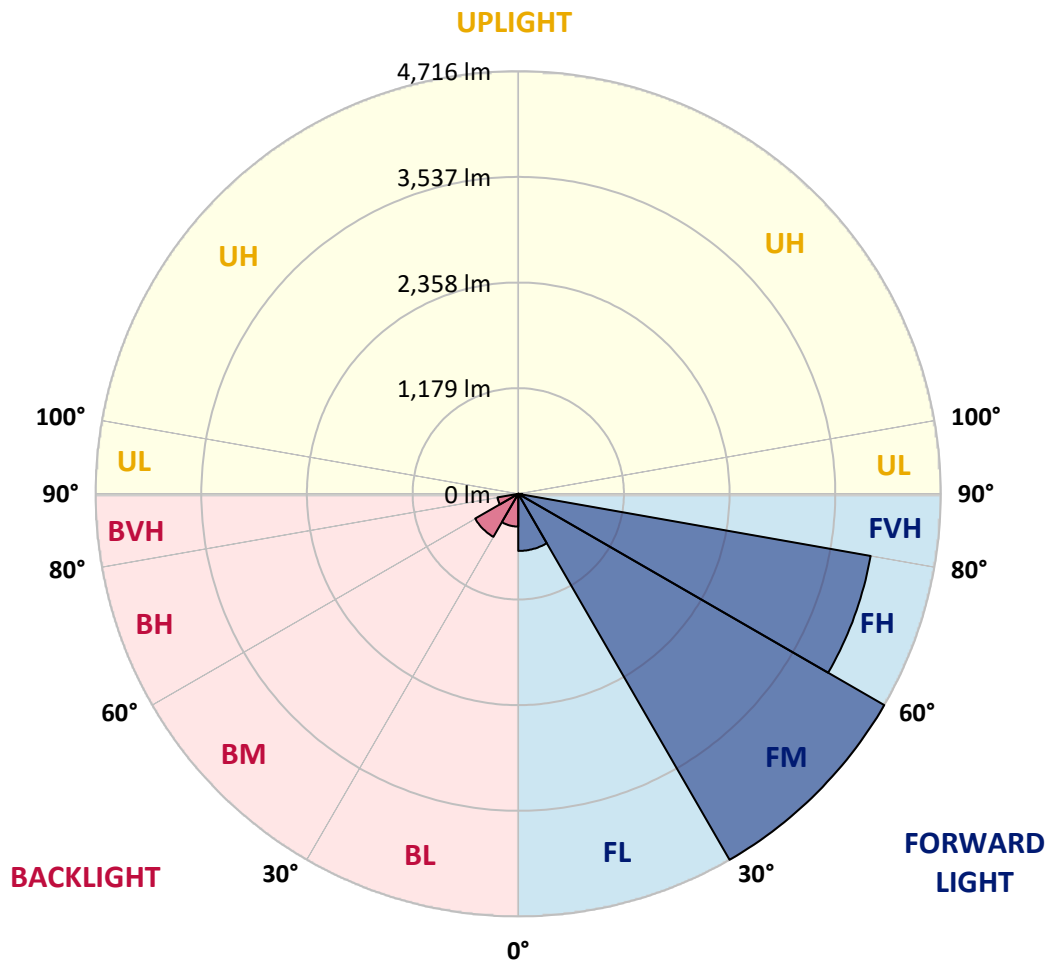
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 637.4 | 6.0 | | | |
| FM (30°-60°) | 4716.1 | 44.7 | | | |
| FH (60°-80°) | 3993.1 | 37.9 | | | G2/5000 |
| FVH (80°-90°) | 43.0 | 0.4 | | | G1/100 |
| BL (0°-30°) | 365.5 | 3.5 | B1/500 | | |
| BM (30°-60°) | 554.6 | 5.3 | B1/1000 | | |
| BH (60°-80°) | 235.5 | 2.2 | 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: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1253.1 | 1253.1 | 1253.1 | 1253.1 | 1253.1 | 1253.1 | 1253.1 | 1253.1 | 1253.1 | 1253.1 | 1253.1 |
| 2.5° | 1223.7 | 1229.2 | 1233.2 | 1235.7 | 1238.7 | 1245.2 | 1247.2 | 1250.2 | 1251.6 | 1251.6 | 1255.1 |
| 5° | 1175.4 | 1181.3 | 1189.8 | 1196.8 | 1210.8 | 1228.7 | 1241.7 | 1246.7 | 1255.6 | 1263.6 | 1268.1 |
| 7.5° | 1130.5 | 1137.5 | 1147.4 | 1163.9 | 1187.8 | 1216.7 | 1243.7 | 1250.6 | 1268.1 | 1285.1 | 1293.5 |
| 10° | 1101.5 | 1107.0 | 1120.0 | 1143.4 | 1174.9 | 1215.2 | 1253.1 | 1261.6 | 1291.5 | 1320.0 | 1335.9 |
| 12.5° | 1091.6 | 1096.6 | 1110.0 | 1136.5 | 1175.4 | 1222.7 | 1275.1 | 1287.6 | 1331.4 | 1372.8 | 1395.3 |
| 15° | 1106.0 | 1107.0 | 1121.5 | 1146.4 | 1184.8 | 1241.2 | 1311.5 | 1326.4 | 1381.8 | 1435.7 | 1463.6 |
| 17.5° | 1161.9 | 1157.4 | 1164.9 | 1175.8 | 1206.3 | 1265.6 | 1349.9 | 1372.3 | 1446.1 | 1509.5 | 1535.9 |
| 20° | 1301.5 | 1301.5 | 1284.6 | 1254.6 | 1255.1 | 1303.5 | 1401.7 | 1427.2 | 1517.4 | 1590.7 | 1614.7 |
| 22.5° | 1540.4 | 1535.9 | 1502.0 | 1428.7 | 1361.4 | 1368.8 | 1465.1 | 1498.0 | 1603.2 | 1681.5 | 1689.5 |
| 25° | 1827.6 | 1822.1 | 1769.8 | 1666.5 | 1549.8 | 1474.5 | 1550.8 | 1588.7 | 1705.4 | 1774.7 | 1758.3 |
| 27.5° | 2131.8 | 2127.3 | 2075.4 | 1947.3 | 1781.2 | 1643.1 | 1653.1 | 1689.0 | 1809.7 | 1878.0 | 1825.6 |
| 30° | 2426.5 | 2428.0 | 2376.6 | 2245.0 | 2057.0 | 1858.0 | 1782.7 | 1803.7 | 1910.9 | 1980.2 | 1905.4 |
| 32.5° | 2706.7 | 2708.7 | 2664.4 | 2517.3 | 2341.7 | 2107.9 | 1962.2 | 1956.8 | 2028.6 | 2096.9 | 2011.1 |
| 35° | 2956.6 | 2961.6 | 2931.1 | 2817.0 | 2631.0 | 2386.1 | 2195.1 | 2182.2 | 2195.6 | 2272.9 | 2173.2 |
| 37.5° | 3197.4 | 3200.4 | 3177.5 | 3081.2 | 2925.7 | 2691.8 | 2489.3 | 2470.9 | 2442.0 | 2501.3 | 2387.1 |
| 40° | 3461.2 | 3453.7 | 3427.3 | 3340.1 | 3206.4 | 3029.4 | 2805.5 | 2773.6 | 2723.2 | 2776.1 | 2668.4 |
| 42.5° | 3706.6 | 3698.1 | 3702.6 | 3603.8 | 3491.1 | 3376.5 | 3174.0 | 3119.1 | 3089.7 | 3150.6 | 3013.4 |
| 45° | 4013.2 | 4008.8 | 4023.7 | 3938.0 | 3846.7 | 3763.4 | 3596.4 | 3536.5 | 3523.6 | 3594.9 | 3430.8 |
| 47.5° | 4315.9 | 4326.9 | 4373.3 | 4336.9 | 4300.0 | 4226.7 | 4043.7 | 4016.7 | 4024.7 | 4111.0 | 3871.1 |
| 50° | 4568.3 | 4581.2 | 4708.4 | 4750.3 | 4803.6 | 4760.7 | 4577.2 | 4560.8 | 4592.2 | 4670.0 | 4344.9 |
| 52.5° | 4750.8 | 4777.2 | 4935.3 | 5128.3 | 5322.7 | 5351.7 | 5168.7 | 5153.7 | 5196.1 | 5208.0 | 4710.9 |
| 55° | 4877.4 | 4900.9 | 5079.9 | 5432.9 | 5828.9 | 5953.6 | 5839.9 | 5782.0 | 5774.0 | 5655.8 | 5095.8 |
| 57.5° | 4899.9 | 4897.4 | 5154.7 | 5629.9 | 6225.8 | 6547.5 | 6475.7 | 6418.8 | 6255.2 | 6069.7 | 5537.2 |
| 60° | 4773.2 | 4787.7 | 5086.4 | 5698.2 | 6475.2 | 6996.8 | 7002.2 | 6928.4 | 6673.6 | 6472.2 | 5965.0 |
| 62.5° | 4383.3 | 4442.1 | 4743.8 | 5519.2 | 6472.2 | 7177.8 | 7388.2 | 7331.9 | 7027.2 | 6801.8 | 6398.9 |
| 65° | 3751.0 | 3771.9 | 4059.6 | 4905.9 | 6034.8 | 7102.0 | 7735.8 | 7714.8 | 7345.8 | 7121.9 | 6621.8 |
| 67.5° | 2739.2 | 2693.8 | 2996.0 | 3863.2 | 5109.3 | 6660.2 | 7985.1 | 8011.5 | 7591.7 | 7187.7 | 6384.4 |
| 68° | 2499.8 | 2513.3 | 2748.6 | 3605.3 | 4867.0 | 6504.1 | 8001.6 | 8042.0 | 7616.1 | 7144.9 | 6254.7 |
| 70° | 1490.0 | 1515.9 | 1725.9 | 2482.3 | 3702.6 | 5620.9 | 7824.0 | 7916.3 | 7470.5 | 6702.5 | 5410.0 |
| 72.5° | 380.5 | 411.4 | 609.9 | 1111.0 | 2114.8 | 3960.4 | 6604.8 | 6760.9 | 6486.1 | 5437.4 | 3652.2 |
| 75° | 156.6 | 164.6 | 217.9 | 366.0 | 787.9 | 1784.2 | 4353.3 | 4687.4 | 4496.5 | 3255.3 | 1650.6 |
| 77.5° | 108.2 | 113.7 | 140.1 | 203.0 | 341.1 | 604.9 | 2134.3 | 2375.6 | 2140.3 | 1111.0 | 360.0 |
| 80° | 77.8 | 82.3 | 100.2 | 135.1 | 196.0 | 215.9 | 695.6 | 804.3 | 638.8 | 243.8 | 89.3 |
| 82.5° | 46.4 | 49.9 | 74.8 | 96.2 | 119.2 | 103.2 | 173.0 | 196.5 | 185.0 | 121.2 | 39.9 |
| 85° | 22.9 | 26.9 | 50.4 | 68.8 | 64.3 | 43.4 | 52.9 | 58.8 | 72.8 | 73.8 | 21.4 |
| 87.5° | 1.5 | 3.0 | 29.4 | 41.4 | 18.0 | 10.0 | 15.5 | 18.9 | 25.9 | 36.4 | 9.0 |
| 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° | 1253.1 | 1253.1 | 1253.1 | 1253.1 | 1253.1 | 1253.1 | 1253.1 | 1253.1 | 1253.1 | 1253.1 | 1253.1 |
| 2.5° | 1256.6 | 1257.1 | 1253.6 | 1252.1 | 1253.1 | 1247.2 | 1244.7 | 1245.7 | 1245.7 | 1247.2 | 1244.7 |
| 5° | 1269.1 | 1269.1 | 1263.1 | 1255.1 | 1250.6 | 1239.2 | 1231.7 | 1229.7 | 1228.2 | 1227.2 | 1225.2 |
| 7.5° | 1296.0 | 1293.0 | 1282.6 | 1265.1 | 1250.2 | 1225.2 | 1206.3 | 1196.3 | 1191.3 | 1189.3 | 1187.8 |
| 10° | 1339.4 | 1333.9 | 1316.5 | 1284.1 | 1249.7 | 1205.3 | 1163.9 | 1134.5 | 1110.0 | 1100.1 | 1094.1 |
| 12.5° | 1397.8 | 1389.8 | 1360.4 | 1306.5 | 1246.2 | 1164.4 | 1074.6 | 988.4 | 908.1 | 875.2 | 858.7 |
| 15° | 1465.1 | 1453.6 | 1407.2 | 1325.4 | 1225.7 | 1072.1 | 877.2 | 726.1 | 614.9 | 573.0 | 555.0 |
| 17.5° | 1533.4 | 1518.4 | 1448.1 | 1337.4 | 1164.4 | 881.1 | 615.4 | 464.8 | 390.5 | 370.5 | 363.5 |
| 20° | 1602.2 | 1580.3 | 1483.5 | 1328.4 | 1025.8 | 635.3 | 405.9 | 339.6 | 318.1 | 312.2 | 310.2 |
| 22.5° | 1667.5 | 1633.6 | 1515.4 | 1293.5 | 812.3 | 426.4 | 321.1 | 300.2 | 293.2 | 289.7 | 288.7 |
| 25° | 1724.4 | 1677.0 | 1543.4 | 1185.8 | 575.0 | 322.1 | 289.2 | 282.2 | 273.3 | 266.8 | 267.3 |
| 27.5° | 1777.7 | 1720.4 | 1560.3 | 1008.3 | 383.5 | 275.3 | 267.8 | 258.3 | 241.9 | 232.4 | 232.4 |
| 30° | 1842.1 | 1778.2 | 1572.8 | 775.9 | 282.2 | 243.3 | 237.4 | 222.9 | 200.5 | 188.0 | 188.0 |
| 32.5° | 1938.8 | 1866.0 | 1564.8 | 544.5 | 233.9 | 213.9 | 200.0 | 180.0 | 155.6 | 143.6 | 143.1 |
| 35° | 2086.9 | 2001.6 | 1508.0 | 357.0 | 206.4 | 186.0 | 163.6 | 139.1 | 117.7 | 107.7 | 107.2 |
| 37.5° | 2286.4 | 2183.2 | 1380.3 | 255.3 | 185.0 | 160.1 | 133.1 | 106.2 | 90.3 | 83.8 | 83.3 |
| 40° | 2545.2 | 2394.1 | 1197.8 | 206.9 | 165.1 | 135.1 | 102.7 | 82.3 | 71.3 | 66.3 | 66.8 |
| 42.5° | 2855.8 | 2620.0 | 978.9 | 178.5 | 145.6 | 111.2 | 80.3 | 64.8 | 57.8 | 54.4 | 53.4 |
| 45° | 3200.9 | 2842.9 | 749.5 | 159.1 | 126.2 | 89.8 | 62.8 | 51.4 | 45.9 | 43.9 | 43.9 |
| 47.5° | 3580.4 | 3059.8 | 548.5 | 142.1 | 105.2 | 69.3 | 50.4 | 41.9 | 37.4 | 35.9 | 35.4 |
| 50° | 3925.0 | 3210.4 | 395.4 | 124.2 | 86.3 | 54.9 | 40.9 | 34.9 | 31.9 | 29.9 | 29.9 |
| 52.5° | 4212.2 | 3257.8 | 291.2 | 104.7 | 69.8 | 43.9 | 33.9 | 29.9 | 26.9 | 25.4 | 25.4 |
| 55° | 4465.0 | 3238.3 | 216.4 | 86.3 | 56.3 | 35.9 | 28.9 | 25.4 | 22.9 | 21.4 | 21.4 |
| 57.5° | 4707.4 | 3175.5 | 161.6 | 70.3 | 45.4 | 28.9 | 24.4 | 21.4 | 18.9 | 18.0 | 18.0 |
| 60° | 4905.4 | 3070.8 | 120.2 | 56.8 | 36.4 | 23.4 | 20.4 | 17.5 | 15.5 | 14.0 | 14.0 |
| 62.5° | 5065.9 | 2955.1 | 88.3 | 46.9 | 28.9 | 18.5 | 16.0 | 14.5 | 11.5 | 10.0 | 10.0 |
| 65° | 5066.9 | 2763.1 | 66.3 | 38.9 | 22.4 | 14.5 | 12.0 | 11.5 | 7.5 | 6.0 | 5.5 |
| 67.5° | 4700.4 | 2382.1 | 50.9 | 33.4 | 17.5 | 11.0 | 9.0 | 9.5 | 4.0 | 2.5 | 2.0 |
| 68° | 4567.3 | 2285.4 | 47.9 | 32.9 | 16.5 | 10.5 | 8.5 | 9.5 | 3.5 | 2.0 | 1.5 |
| 70° | 3850.7 | 1818.1 | 38.4 | 31.9 | 14.5 | 8.0 | 7.0 | 9.5 | 3.0 | 1.5 | 1.0 |
| 72.5° | 2462.9 | 1055.2 | 28.4 | 25.4 | 11.0 | 6.0 | 4.5 | 8.5 | 3.0 | 1.0 | 0.5 |
| 75° | 1048.2 | 327.1 | 19.4 | 18.0 | 6.5 | 4.5 | 3.0 | 5.5 | 2.0 | 0.5 | 0.0 |
| 77.5° | 220.9 | 73.8 | 11.5 | 11.0 | 4.5 | 3.0 | 2.0 | 1.5 | 0.5 | 0.0 | 0.0 |
| 80° | 56.8 | 21.4 | 6.0 | 5.5 | 2.5 | 1.5 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 18.0 | 8.5 | 3.5 | 2.5 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 9.0 | 5.0 | 2.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.0 | 1.5 | 0.5 | 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)