

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: P648775

Luminaire Tested: **GLAN-SA2C-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2C-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8275.5 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

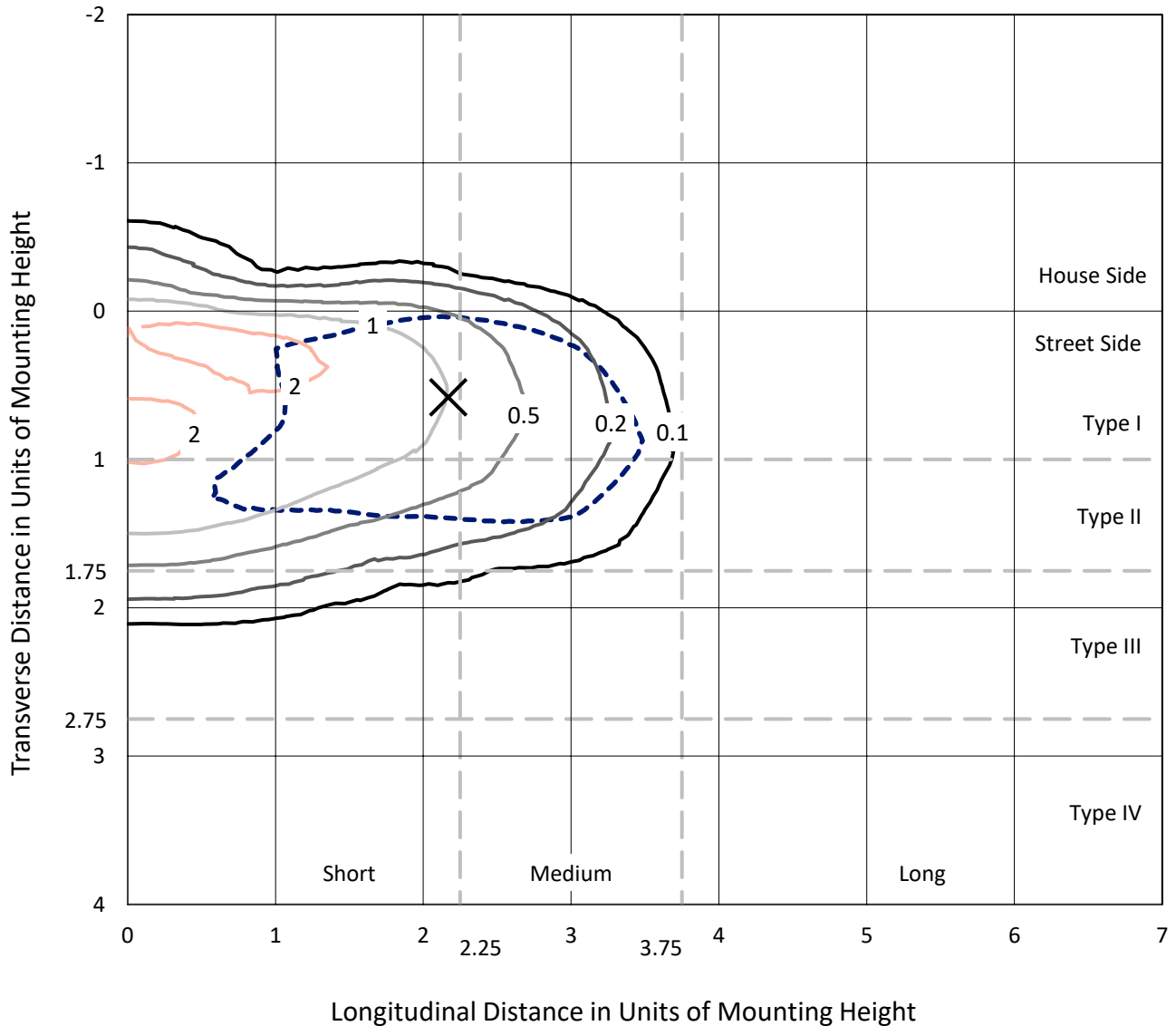
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

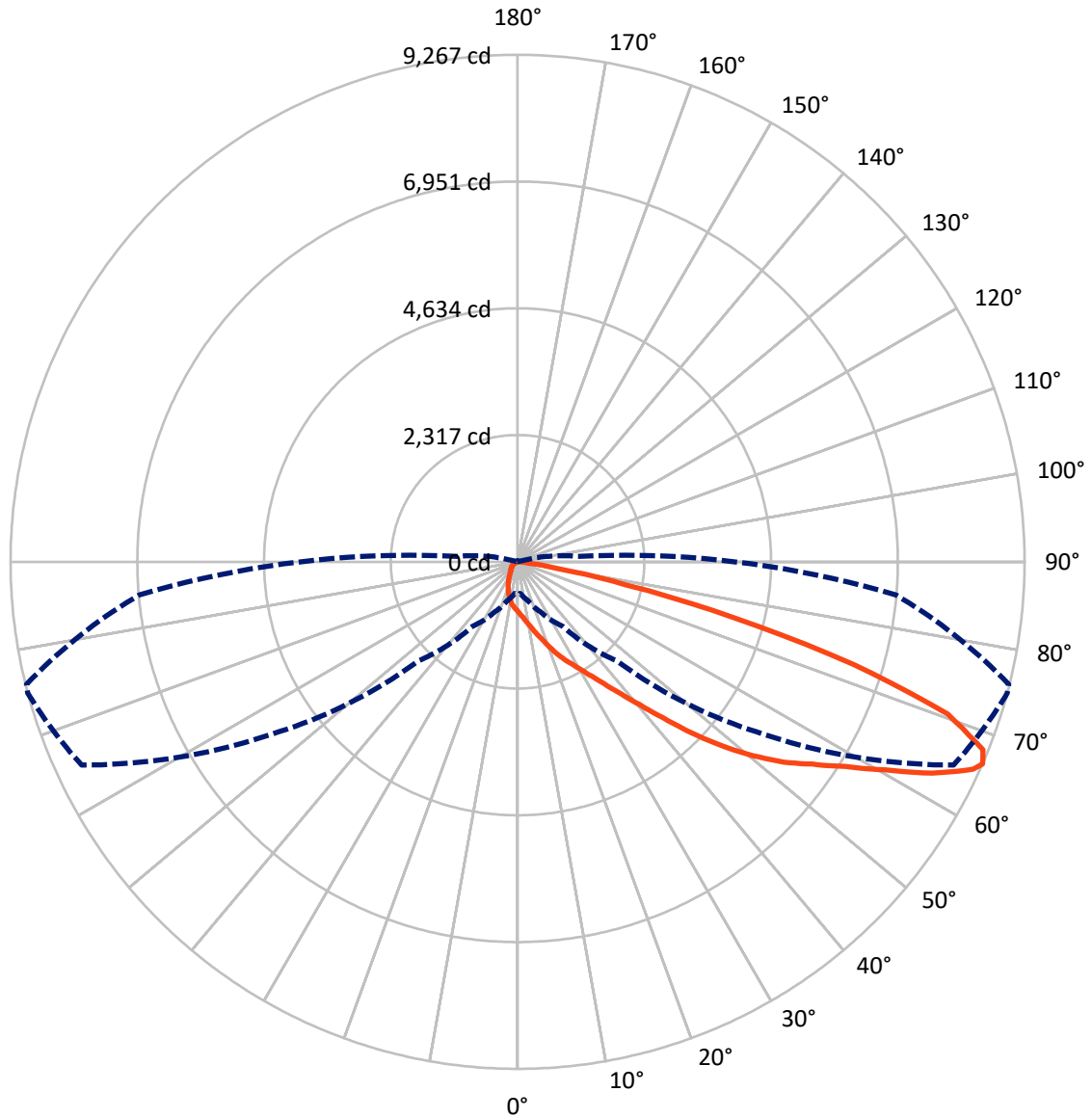
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 510.9 | 0.0 | 510.9 |
| | % Fixture | 6.2 | 0.0 | 6.2 |
| Street Side | Lumens | 7764.6 | 0.0 | 7764.6 |
| | % Fixture | 93.8 | 0.0 | 93.8 |
| Total | Lumens | 8275.5 | 0.0 | 8275.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 87.3 | 1.1 |
| 10°-20° | 256.9 | 3.1 |
| 20°-30° | 443.6 | 5.4 |
| 30°-40° | 800.2 | 9.7 |
| 40°-50° | 1445.5 | 17.5 |
| 50°-60° | 2253.6 | 27.2 |
| 60°-70° | 2140.8 | 25.9 |
| 70°-80° | 802.3 | 9.7 |
| 80°-90° | 45.3 | 0.5 |
| 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° | 8275.5 | 100.0 |
| 0°-180° | 8275.5 | 100.0 |

Coefficient of Utilization



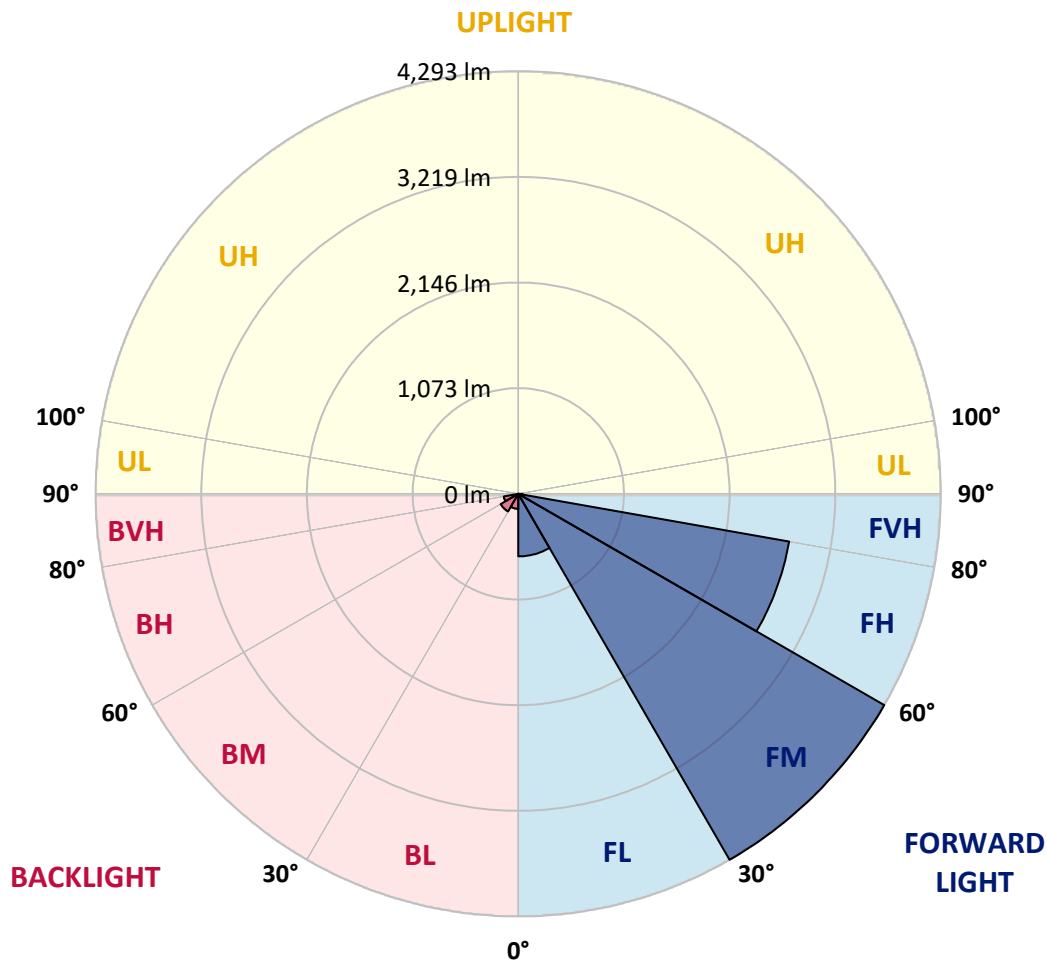
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 635.2 | 7.7 | | | |
| FM (30°-60°) | 4292.5 | 51.9 | | | |
| FH (60°-80°) | 2794.0 | 33.8 | | | G2/5000 |
| FVH (80°-90°) | 42.9 | 0.5 | | | G1/100 |
| BL (0°-30°) | 152.6 | 1.8 | B1/500 | | |
| BM (30°-60°) | 206.8 | 2.5 | B0/220 | | |
| BH (60°-80°) | 149.2 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.3 | 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° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 905.0 | 905.0 | 905.0 | 905.0 | 905.0 | 905.0 | 905.0 | 905.0 | 905.0 | 905.0 | 905.0 |
| 2.5° | 1081.2 | 1067.8 | 1072.1 | 1066.0 | 1051.9 | 1031.1 | 1012.7 | 986.4 | 960.1 | 955.8 | 926.4 |
| 5° | 1223.8 | 1220.1 | 1215.2 | 1197.5 | 1187.7 | 1155.9 | 1118.0 | 1072.7 | 1018.2 | 1008.4 | 955.2 |
| 7.5° | 1321.1 | 1319.3 | 1321.7 | 1312.5 | 1304.0 | 1275.2 | 1234.8 | 1173.0 | 1088.6 | 1083.0 | 994.3 |
| 10° | 1352.9 | 1357.8 | 1367.0 | 1381.7 | 1395.1 | 1386.0 | 1355.4 | 1278.2 | 1179.7 | 1163.9 | 1039.0 |
| 12.5° | 1334.5 | 1340.1 | 1362.1 | 1401.3 | 1444.7 | 1469.8 | 1457.6 | 1401.3 | 1276.4 | 1263.6 | 1089.2 |
| 15° | 1287.5 | 1294.2 | 1325.4 | 1386.0 | 1463.7 | 1534.7 | 1565.3 | 1524.9 | 1389.0 | 1368.2 | 1149.8 |
| 17.5° | 1217.7 | 1227.5 | 1272.1 | 1352.3 | 1458.8 | 1581.2 | 1667.5 | 1654.0 | 1509.0 | 1489.3 | 1215.8 |
| 20° | 1165.1 | 1172.4 | 1210.4 | 1302.1 | 1438.0 | 1606.9 | 1764.7 | 1802.7 | 1657.1 | 1623.4 | 1293.6 |
| 22.5° | 1199.9 | 1202.4 | 1215.2 | 1270.3 | 1400.6 | 1613.6 | 1850.4 | 1957.5 | 1814.3 | 1784.3 | 1374.3 |
| 25° | 1370.6 | 1346.2 | 1333.4 | 1321.1 | 1392.7 | 1607.5 | 1928.1 | 2119.0 | 1971.0 | 1939.1 | 1454.5 |
| 27.5° | 1639.9 | 1628.9 | 1564.0 | 1477.1 | 1460.6 | 1615.4 | 1979.5 | 2272.0 | 2118.4 | 2084.2 | 1532.8 |
| 30° | 1933.0 | 1914.0 | 1874.3 | 1747.0 | 1619.1 | 1671.7 | 2016.9 | 2420.7 | 2292.8 | 2247.5 | 1604.4 |
| 32.5° | 2202.3 | 2214.5 | 2155.1 | 2024.2 | 1876.1 | 1791.7 | 2065.2 | 2582.9 | 2492.9 | 2436.6 | 1687.7 |
| 35° | 2516.2 | 2540.6 | 2449.5 | 2324.0 | 2150.8 | 2008.3 | 2159.4 | 2765.8 | 2746.8 | 2675.9 | 1816.2 |
| 37.5° | 2834.9 | 2849.7 | 2794.0 | 2617.7 | 2461.7 | 2283.6 | 2336.9 | 2991.6 | 3059.6 | 2999.0 | 1969.7 |
| 40° | 3103.0 | 3123.2 | 3082.2 | 2925.5 | 2759.1 | 2602.5 | 2594.5 | 3237.6 | 3431.6 | 3369.2 | 2198.6 |
| 42.5° | 3307.9 | 3323.3 | 3324.5 | 3213.7 | 3063.8 | 2992.9 | 2923.1 | 3551.5 | 3897.9 | 3825.7 | 2464.2 |
| 45° | 3566.8 | 3588.8 | 3576.0 | 3500.7 | 3388.7 | 3375.9 | 3339.8 | 3930.9 | 4455.9 | 4364.8 | 2808.6 |
| 47.5° | 3967.0 | 3981.7 | 3949.8 | 3861.1 | 3747.3 | 3767.5 | 3746.1 | 4356.1 | 5025.0 | 4946.7 | 3165.4 |
| 50° | 4244.8 | 4269.3 | 4314.6 | 4350.0 | 4267.4 | 4192.8 | 4129.2 | 4753.3 | 5565.3 | 5494.9 | 3530.1 |
| 52.5° | 4241.7 | 4282.1 | 4425.3 | 4604.0 | 4784.5 | 4761.9 | 4578.9 | 5192.0 | 6081.2 | 5994.3 | 3872.8 |
| 55° | 3956.0 | 4034.3 | 4244.8 | 4561.8 | 5061.7 | 5310.8 | 5227.5 | 5699.9 | 6526.6 | 6467.9 | 4269.9 |
| 57.5° | 3366.1 | 3413.8 | 3706.3 | 4149.4 | 4906.9 | 5568.9 | 5978.9 | 6388.3 | 7060.8 | 7033.3 | 4886.7 |
| 60° | 2264.0 | 2285.5 | 2661.8 | 3209.4 | 4177.5 | 5311.3 | 6529.7 | 7221.1 | 7718.6 | 7705.1 | 5606.9 |
| 62.5° | 1297.3 | 1306.4 | 1579.3 | 2041.4 | 2972.7 | 4501.2 | 6576.2 | 8248.5 | 8507.4 | 8514.7 | 6440.3 |
| 65° | 698.2 | 703.1 | 923.4 | 1198.1 | 1808.8 | 3208.3 | 5913.5 | 8811.5 | 9145.0 | 9159.1 | 6956.8 |
| 66° | 602.8 | 579.5 | 734.9 | 1021.3 | 1439.2 | 2553.5 | 5494.3 | 8791.3 | 9267.4 | 9252.0 | 6938.4 |
| 67.5° | 458.3 | 479.1 | 586.8 | 785.1 | 1066.5 | 1815.5 | 4536.1 | 8400.3 | 9174.3 | 9126.6 | 6656.4 |
| 70° | 328.0 | 336.5 | 418.0 | 559.9 | 726.3 | 996.2 | 2898.6 | 6977.0 | 8338.5 | 8274.2 | 5799.1 |
| 72.5° | 211.7 | 220.9 | 296.1 | 405.0 | 525.0 | 544.0 | 1622.8 | 5040.9 | 6428.7 | 6419.5 | 4367.2 |
| 75° | 151.1 | 159.7 | 195.8 | 290.0 | 394.7 | 336.5 | 781.4 | 3397.3 | 4086.9 | 4059.4 | 2701.6 |
| 77.5° | 109.5 | 113.8 | 130.9 | 189.7 | 282.1 | 241.1 | 362.2 | 1814.3 | 2034.6 | 2130.7 | 1193.8 |
| 80° | 63.0 | 66.7 | 91.1 | 115.6 | 190.9 | 164.6 | 173.2 | 728.2 | 750.8 | 714.7 | 373.3 |
| 82.5° | 31.2 | 35.5 | 54.5 | 78.9 | 119.3 | 110.7 | 79.6 | 219.1 | 231.3 | 225.2 | 94.2 |
| 85° | 7.4 | 9.2 | 30.6 | 52.0 | 58.1 | 49.6 | 38.5 | 64.3 | 79.6 | 77.7 | 36.1 |
| 87.5° | 0.6 | 1.3 | 11.0 | 9.2 | 9.8 | 16.5 | 13.5 | 16.5 | 25.7 | 23.9 | 12.8 |
| 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° | 905.0 | 905.0 | 905.0 | 905.0 | 905.0 | 905.0 | 905.0 | 905.0 | 905.0 | 905.0 | 905.0 |
| 2.5° | 913.0 | 901.3 | 867.7 | 834.7 | 807.1 | 778.4 | 752.1 | 736.7 | 730.6 | 723.9 | 726.9 |
| 5° | 925.8 | 897.6 | 829.7 | 771.0 | 713.5 | 664.5 | 625.4 | 600.2 | 588.0 | 586.2 | 583.2 |
| 7.5° | 943.0 | 894.6 | 789.3 | 697.6 | 622.3 | 567.8 | 523.2 | 487.1 | 476.1 | 466.3 | 458.3 |
| 10° | 963.7 | 889.1 | 739.2 | 620.4 | 540.3 | 471.8 | 413.0 | 370.2 | 348.2 | 342.1 | 346.3 |
| 12.5° | 985.8 | 878.7 | 686.5 | 549.5 | 457.1 | 369.6 | 315.2 | 293.7 | 287.6 | 285.2 | 285.8 |
| 15° | 1007.8 | 865.8 | 631.5 | 481.0 | 364.1 | 295.0 | 269.8 | 264.3 | 261.9 | 260.7 | 259.5 |
| 17.5° | 1028.0 | 845.0 | 569.7 | 414.3 | 295.0 | 252.1 | 243.0 | 238.0 | 233.1 | 231.3 | 228.2 |
| 20° | 1051.9 | 821.2 | 514.0 | 339.6 | 249.6 | 228.2 | 217.2 | 208.0 | 200.7 | 195.8 | 195.2 |
| 22.5° | 1074.5 | 790.6 | 455.9 | 281.5 | 227.6 | 205.0 | 187.2 | 177.4 | 168.9 | 162.8 | 164.6 |
| 25° | 1086.7 | 753.2 | 403.9 | 245.4 | 207.4 | 181.7 | 162.2 | 149.9 | 140.7 | 137.7 | 137.1 |
| 27.5° | 1086.7 | 707.4 | 353.1 | 224.6 | 189.1 | 160.9 | 140.7 | 129.1 | 123.0 | 118.7 | 119.3 |
| 30° | 1078.2 | 656.5 | 305.9 | 208.7 | 173.2 | 142.6 | 123.6 | 113.2 | 108.3 | 105.2 | 104.6 |
| 32.5° | 1071.5 | 608.2 | 265.6 | 193.4 | 156.7 | 126.7 | 110.2 | 102.2 | 97.3 | 94.2 | 94.2 |
| 35° | 1081.9 | 566.7 | 234.4 | 178.1 | 141.3 | 114.4 | 99.8 | 92.4 | 87.5 | 85.0 | 84.4 |
| 37.5° | 1109.4 | 528.7 | 210.5 | 161.5 | 127.3 | 104.1 | 92.4 | 83.9 | 78.9 | 75.9 | 74.6 |
| 40° | 1177.3 | 507.3 | 192.8 | 146.3 | 113.8 | 95.4 | 83.9 | 75.9 | 69.8 | 66.7 | 66.1 |
| 42.5° | 1286.2 | 507.9 | 175.6 | 132.2 | 103.4 | 88.1 | 76.5 | 67.3 | 60.6 | 57.6 | 56.9 |
| 45° | 1450.2 | 531.1 | 162.2 | 118.7 | 94.2 | 80.2 | 68.5 | 58.7 | 52.6 | 49.6 | 49.6 |
| 47.5° | 1646.6 | 576.4 | 150.5 | 107.1 | 85.7 | 72.8 | 60.6 | 50.8 | 44.6 | 42.2 | 42.2 |
| 50° | 1859.5 | 635.2 | 138.9 | 94.8 | 78.3 | 64.8 | 52.0 | 44.1 | 39.2 | 37.3 | 37.3 |
| 52.5° | 2076.8 | 706.1 | 127.3 | 85.0 | 70.4 | 56.3 | 44.6 | 39.2 | 34.8 | 33.7 | 33.0 |
| 55° | 2362.0 | 796.7 | 115.0 | 74.6 | 61.8 | 48.3 | 39.8 | 34.3 | 29.4 | 27.6 | 26.9 |
| 57.5° | 2800.7 | 933.2 | 101.6 | 65.5 | 50.8 | 40.4 | 34.3 | 28.7 | 23.3 | 20.2 | 19.6 |
| 60° | 3330.0 | 1099.6 | 87.5 | 57.6 | 41.0 | 33.0 | 27.6 | 22.0 | 17.1 | 13.5 | 12.8 |
| 62.5° | 3825.7 | 1205.4 | 74.1 | 48.3 | 32.4 | 25.1 | 19.6 | 16.5 | 12.2 | 8.5 | 8.0 |
| 65° | 4044.7 | 1170.0 | 61.2 | 39.2 | 25.7 | 17.8 | 12.8 | 11.6 | 7.4 | 3.7 | 3.1 |
| 66° | 3971.9 | 1117.3 | 56.3 | 35.5 | 23.3 | 15.3 | 11.0 | 9.8 | 5.5 | 1.8 | 1.8 |
| 67.5° | 3757.1 | 993.2 | 48.9 | 30.6 | 20.2 | 12.2 | 8.5 | 7.4 | 3.1 | 0.6 | 0.0 |
| 70° | 3219.2 | 803.4 | 38.5 | 22.6 | 14.7 | 8.5 | 4.9 | 3.7 | 1.8 | 0.0 | 0.0 |
| 72.5° | 2472.7 | 598.4 | 30.6 | 17.1 | 10.4 | 4.9 | 2.4 | 1.3 | 1.8 | 0.0 | 0.0 |
| 75° | 1515.1 | 342.1 | 23.9 | 12.8 | 6.7 | 3.1 | 1.8 | 0.0 | 1.8 | 0.6 | 0.0 |
| 77.5° | 672.5 | 153.6 | 15.9 | 8.5 | 4.9 | 2.4 | 1.3 | 0.0 | 1.3 | 0.6 | 0.0 |
| 80° | 170.1 | 50.2 | 9.2 | 6.1 | 3.7 | 1.8 | 0.6 | 0.0 | 1.3 | 1.3 | 0.6 |
| 82.5° | 46.5 | 18.3 | 6.7 | 4.9 | 3.1 | 1.8 | 0.6 | 0.0 | 1.3 | 1.3 | 1.3 |
| 85° | 18.3 | 8.5 | 6.1 | 4.9 | 3.7 | 1.8 | 0.6 | 0.0 | 1.3 | 1.3 | 1.3 |
| 87.5° | 8.5 | 6.1 | 6.1 | 5.5 | 4.3 | 1.8 | 0.6 | 0.0 | 1.3 | 0.6 | 1.3 |
| 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)