

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: P598685

Luminaire Tested: **IFLD-S-SA6B-735-U-SLR**

Issue Date: 05/03/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P598685  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-S-SA6B-735-U-SLR  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens  
 Light Source: (96) 3500K CCT, 70 CRI LEDs  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

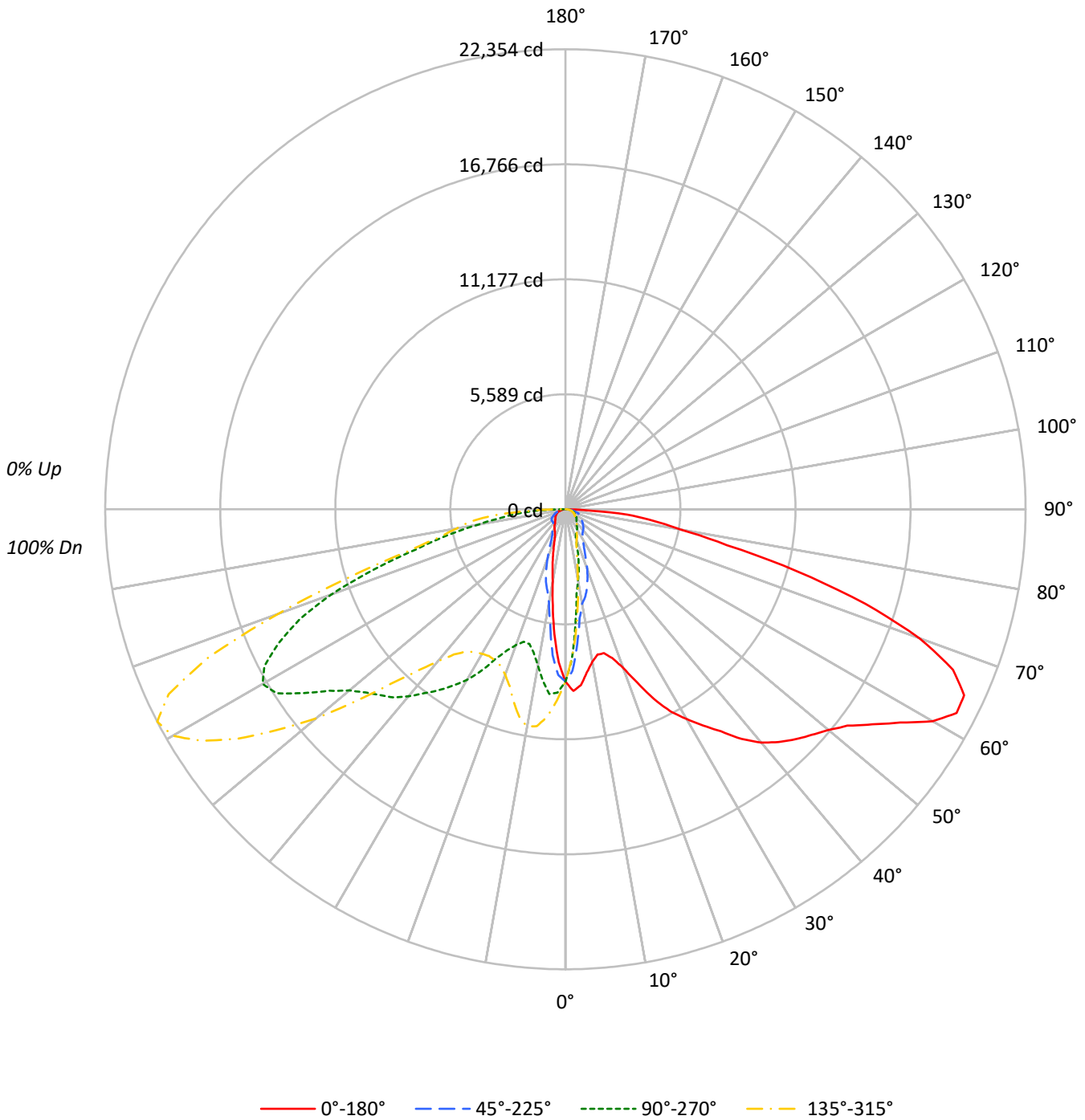
Lumens per Lamp: N/A  
 Luminaire Lumens: 28003.1 lumens  
 Efficiency: N/A  
 Efficacy: 114.3 lumens/watt  
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8  
 Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
 CIE Type: Direct

Input Watts (W): 244.9  
 Input Voltage (V): 120  
 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: 25 FT

| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | GONIO 1 IN0055        | 4/22/2021        | 10/22/2021           |
| Power Meter                    | XITRON 2801 IN0197    | 12/1/2020        | 12/1/2021            |
| AC Power Source                | CHROMA 61505 IN0196   | 12/1/2020        | 12/1/2021            |
| DC Power Supply                | AGILENT E3634A IN0198 | 11/30/2020       | 11/30/2021           |
| Room Thermometer               | ONSET IN0143          | 12/1/2020        | 12/1/2021            |

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### Luminous Intensity Polar Plot



TEST NUMBER: P598685  
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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |     |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|---|
| RF  | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |    |    | 20  |   |
| RC  | 80  |     |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |    |    | 10  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 | 0   |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |     |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    | 100 |   |
| 1   | 105 | 99  | 94  | 89  | 102 | 97  | 92  | 87  | 92  | 88  | 84  | 88  | 85  | 82  | 85  | 82  | 79  | 77  |    |    | 77  |   |
| 2   | 93  | 83  | 74  | 67  | 90  | 81  | 73  | 66  | 77  | 70  | 64  | 73  | 68  | 63  | 70  | 65  | 61  | 59  |    |    | 59  |   |
| 3   | 83  | 70  | 60  | 52  | 80  | 68  | 59  | 51  | 65  | 57  | 50  | 62  | 55  | 49  | 59  | 53  | 48  | 46  |    |    | 46  |   |
| 4   | 74  | 60  | 49  | 41  | 72  | 59  | 49  | 41  | 56  | 47  | 40  | 53  | 46  | 40  | 51  | 44  | 39  | 36  |    |    | 36  |   |
| 5   | 68  | 52  | 42  | 34  | 65  | 51  | 41  | 34  | 49  | 40  | 33  | 47  | 39  | 33  | 45  | 38  | 32  | 30  |    |    | 30  |   |
| 6   | 62  | 46  | 36  | 28  | 60  | 45  | 35  | 28  | 43  | 34  | 28  | 41  | 34  | 28  | 40  | 33  | 27  | 25  |    |    | 25  |   |
| 7   | 57  | 41  | 31  | 24  | 55  | 40  | 31  | 24  | 39  | 30  | 24  | 37  | 29  | 24  | 36  | 29  | 23  | 21  |    |    | 21  |   |
| 8   | 53  | 37  | 28  | 21  | 51  | 36  | 27  | 21  | 35  | 27  | 21  | 34  | 26  | 21  | 32  | 26  | 20  | 18  |    |    | 18  |   |
| 9   | 49  | 34  | 25  | 19  | 47  | 33  | 24  | 18  | 32  | 24  | 18  | 31  | 23  | 18  | 30  | 23  | 18  | 16  |    |    | 16  |   |
| 10  | 46  | 31  | 22  | 17  | 44  | 31  | 22  | 17  | 29  | 22  | 16  | 28  | 21  | 16  | 28  | 21  | 16  | 14  |    |    | 14  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 90°   | 180°  | 270°   |
|-----|--------|-------|-------|--------|
| 0°  | 60027  | 60027 | 60027 | 60027  |
| 5°  | 61775  | 40171 | 43884 | 64898  |
| 10° | 54806  | 25525 | 25781 | 56087  |
| 15° | 53789  | 18104 | 17146 | 50308  |
| 20° | 62537  | 11452 | 11541 | 53591  |
| 25° | 80425  | 9833  | 9554  | 63356  |
| 30° | 97466  | 9319  | 8737  | 79312  |
| 35° | 115359 | 8211  | 7903  | 94011  |
| 40° | 138611 | 7792  | 7243  | 111064 |
| 45° | 160389 | 7728  | 7015  | 129476 |
| 50° | 186248 | 7847  | 7062  | 152896 |
| 55° | 227923 | 8062  | 7182  | 194797 |
| 60° | 295594 | 8072  | 7566  | 243639 |
| 65° | 362848 | 8155  | 7758  | 260797 |
| 70° | 383953 | 8604  | 8111  | 253919 |
| 75° | 323201 | 9094  | 8121  | 207239 |
| 80° | 234811 | 10649 | 8232  | 179134 |
| 85° | 248873 | 15438 | 6751  | 186167 |

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 647.4   | 2.3       |
| 10°-20°   | 1354.9  | 4.8       |
| 20°-30°   | 1952.5  | 7.0       |
| 30°-40°   | 2810.9  | 10.0      |
| 40°-50°   | 3992.6  | 14.3      |
| 50°-60°   | 5740.3  | 20.5      |
| 60°-70°   | 6631.9  | 23.7      |
| 70°-80°   | 3755.1  | 13.4      |
| 80°-90°   | 1117.5  | 4.0       |
| 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°-30°    | 3954.8  | 14.1      |
| 0°-40°    | 6765.7  | 24.2      |
| 0°-60°    | 16498.5 | 58.9      |
| 0°-90°    | 28003.1 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 28003.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 90°  | 180° | 270°  | 360°  | Flux  |
|-----|-------|------|------|-------|-------|-------|
| 0°  | 8365  | 8365 | 8365 | 8365  | 8365  |       |
| 5°  | 8576  | 5577 | 6092 | 9009  | 8576  | 778   |
| 15° | 7240  | 2437 | 2308 | 6772  | 7240  | 2129  |
| 25° | 10158 | 1242 | 1207 | 8002  | 10158 | 4715  |
| 35° | 13168 | 937  | 902  | 10732 | 13168 | 8357  |
| 45° | 15804 | 762  | 691  | 12758 | 15804 | 12238 |
| 55° | 18218 | 644  | 574  | 15570 | 18218 | 16499 |
| 65° | 21370 | 480  | 457  | 15359 | 21370 | 20492 |
| 75° | 11657 | 328  | 293  | 7475  | 11657 | 12369 |
| 85° | 3023  | 188  | 82   | 2261  | 3023  | 3010  |
| 90° | 0     | 0    | 0    | 0     | 0     |       |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8365.0  | 8365.0  | 8365.0  | 8365.0  | 8365.0 | 8365.0 | 8365.0 | 8365.0 | 8365.0 | 8365.0 | 8365.0 |
| 2.5°  | 8833.7  | 8821.9  | 8751.6  | 8529.0  | 8294.7 | 8072.1 | 7861.3 | 7638.7 | 7521.5 | 7380.9 | 7322.3 |
| 5°    | 8575.9  | 8552.5  | 8353.3  | 7861.3  | 7427.8 | 6959.1 | 6560.8 | 6244.5 | 5986.7 | 5729.0 | 5635.3 |
| 7.5°  | 7990.1  | 7955.0  | 7720.7  | 7041.2  | 6408.5 | 5799.3 | 5318.9 | 4908.9 | 4569.1 | 4416.8 | 4241.1 |
| 10°   | 7521.5  | 7462.9  | 7158.3  | 6408.5  | 5588.4 | 4979.2 | 4662.9 | 4381.7 | 4088.8 | 3842.8 | 3585.0 |
| 12.5° | 7228.6  | 7158.3  | 6842.0  | 5963.3  | 5166.6 | 4709.7 | 4381.7 | 4065.4 | 3702.2 | 3397.6 | 3116.4 |
| 15°   | 7240.3  | 7158.3  | 6771.7  | 5846.1  | 5061.2 | 4475.4 | 4018.5 | 3585.0 | 3163.2 | 2823.5 | 2507.2 |
| 17.5° | 7580.1  | 7474.6  | 7064.6  | 6010.2  | 4979.2 | 4170.8 | 3561.6 | 2999.2 | 2518.9 | 2155.7 | 1897.9 |
| 20°   | 8189.3  | 8119.0  | 7650.4  | 6256.2  | 4897.2 | 3842.8 | 3093.0 | 2413.4 | 1909.7 | 1628.5 | 1523.0 |
| 22.5° | 9103.1  | 9021.1  | 8517.3  | 6631.1  | 4873.7 | 3549.9 | 2589.2 | 1897.9 | 1534.8 | 1417.6 | 1359.0 |
| 25°   | 10157.5 | 10005.2 | 9536.6  | 7263.7  | 4920.6 | 3280.4 | 2179.1 | 1569.9 | 1370.7 | 1288.7 | 1253.6 |
| 27.5° | 11071.4 | 10977.6 | 10450.4 | 7861.3  | 4944.0 | 3069.5 | 1897.9 | 1429.3 | 1277.0 | 1206.7 | 1183.3 |
| 30°   | 11762.6 | 11727.4 | 11211.9 | 8517.3  | 4885.5 | 2811.8 | 1722.2 | 1370.7 | 1277.0 | 1206.7 | 1136.4 |
| 32.5° | 12453.8 | 12465.5 | 11914.9 | 9021.1  | 4803.4 | 2589.2 | 1558.2 | 1218.4 | 1124.7 | 1077.8 | 1089.6 |
| 35°   | 13168.5 | 13227.1 | 12758.4 | 9513.2  | 4627.7 | 2507.2 | 1441.0 | 1136.4 | 1054.4 | 984.1  | 949.0  |
| 37.5° | 14070.6 | 14222.9 | 13766.0 | 10063.8 | 4452.0 | 2436.9 | 1382.5 | 1077.8 | 995.8  | 937.3  | 890.4  |
| 40°   | 14797.0 | 15078.1 | 14808.7 | 10579.3 | 4334.8 | 2354.9 | 1335.6 | 1019.3 | 960.7  | 890.4  | 855.2  |
| 42.5° | 15335.9 | 15663.9 | 15570.2 | 10977.6 | 4334.8 | 2272.9 | 1288.7 | 984.1  | 937.3  | 855.2  | 808.4  |
| 45°   | 15804.5 | 16144.3 | 16132.6 | 11387.7 | 4428.5 | 2226.0 | 1230.2 | 984.1  | 913.8  | 831.8  | 785.0  |
| 47.5° | 16226.3 | 16566.0 | 16683.2 | 11903.2 | 4580.8 | 2202.6 | 1159.9 | 960.7  | 913.8  | 820.1  | 749.8  |
| 50°   | 16683.2 | 17058.1 | 17409.6 | 12723.3 | 4768.3 | 2144.0 | 1113.0 | 925.5  | 925.5  | 808.4  | 726.4  |
| 52.5° | 17269.0 | 17690.7 | 18335.1 | 13742.5 | 4955.8 | 2038.5 | 1042.7 | 902.1  | 925.5  | 796.7  | 702.9  |
| 55°   | 18218.0 | 18569.4 | 19413.0 | 14961.0 | 5190.1 | 1909.7 | 984.1  | 843.5  | 878.7  | 761.5  | 667.8  |
| 57.5° | 19284.1 | 19588.7 | 20291.6 | 15898.2 | 5260.4 | 1745.6 | 902.1  | 785.0  | 843.5  | 726.4  | 620.9  |
| 60°   | 20596.2 | 20748.5 | 20748.5 | 16167.7 | 5026.0 | 1593.3 | 843.5  | 738.1  | 761.5  | 691.2  | 585.8  |
| 62.5° | 21428.1 | 21428.1 | 20748.5 | 15675.6 | 4580.8 | 1464.5 | 796.7  | 691.2  | 667.8  | 644.4  | 550.6  |
| 65°   | 21369.5 | 21275.8 | 20268.2 | 14246.3 | 4065.4 | 1382.5 | 749.8  | 632.6  | 597.5  | 585.8  | 515.5  |
| 67.5° | 20385.4 | 20221.3 | 18850.6 | 12231.2 | 3526.4 | 1347.3 | 702.9  | 574.1  | 550.6  | 527.2  | 468.6  |
| 70°   | 18300.0 | 17878.2 | 16191.1 | 9841.2  | 2999.2 | 1323.9 | 691.2  | 527.2  | 503.8  | 480.3  | 433.5  |
| 72.5° | 15277.3 | 14738.4 | 12641.3 | 7568.4  | 2518.9 | 1241.9 | 656.1  | 468.6  | 456.9  | 433.5  | 386.6  |
| 75°   | 11657.1 | 10661.3 | 8821.9  | 5787.6  | 1956.5 | 1077.8 | 562.4  | 410.1  | 410.1  | 398.3  | 351.5  |
| 77.5° | 8037.0  | 7521.5  | 6150.8  | 4276.2  | 1429.3 | 831.8  | 456.9  | 363.2  | 363.2  | 374.9  | 328.0  |
| 80°   | 5682.1  | 5201.8  | 4381.7  | 3069.5  | 902.1  | 562.4  | 351.5  | 304.6  | 339.8  | 363.2  | 304.6  |
| 82.5° | 4346.5  | 3995.1  | 3257.0  | 2237.7  | 527.2  | 386.6  | 269.5  | 246.0  | 292.9  | 316.3  | 257.7  |
| 85°   | 3022.7  | 2600.9  | 1651.9  | 1499.6  | 304.6  | 234.3  | 199.2  | 199.2  | 257.7  | 316.3  | 234.3  |
| 87.5° | 855.2   | 363.2   | 105.4   | 445.2   | 128.9  | 93.7   | 70.3   | 46.9   | 70.3   | 70.3   | 46.9   |
| 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°    | 8365.0 | 8365.0 | 8365.0 | 8365.0 | 8365.0 | 8365.0 | 8365.0 | 8365.0 | 8365.0 | 8365.0 | 8365.0 |
| 2.5°  | 7263.7 | 7193.5 | 7193.5 | 7170.0 | 7181.7 | 7193.5 | 7181.7 | 7263.7 | 7298.9 | 7345.8 | 7439.5 |
| 5°    | 5576.7 | 5670.4 | 5600.1 | 5670.4 | 5764.1 | 5904.7 | 5939.9 | 6045.3 | 6057.0 | 6139.0 | 6092.2 |
| 7.5°  | 4135.7 | 4123.9 | 4065.4 | 4147.4 | 4405.1 | 4604.3 | 4698.0 | 4756.6 | 4768.3 | 4768.3 | 4709.7 |
| 10°   | 3503.0 | 3397.6 | 3292.1 | 3233.5 | 3257.0 | 3467.9 | 3538.1 | 3573.3 | 3549.9 | 3585.0 | 3538.1 |
| 12.5° | 2999.2 | 2905.5 | 2753.2 | 2647.8 | 2577.5 | 2636.0 | 2706.3 | 2741.5 | 2764.9 | 2823.5 | 2870.4 |
| 15°   | 2436.9 | 2343.1 | 2249.4 | 2190.8 | 2132.3 | 2085.4 | 2144.0 | 2179.1 | 2237.7 | 2284.6 | 2308.0 |
| 17.5° | 1851.1 | 1804.2 | 1757.4 | 1792.5 | 1792.5 | 1769.1 | 1792.5 | 1804.2 | 1827.7 | 1862.8 | 1851.1 |
| 20°   | 1499.6 | 1487.9 | 1476.2 | 1534.8 | 1581.6 | 1581.6 | 1605.1 | 1569.9 | 1558.2 | 1523.0 | 1511.3 |
| 22.5° | 1335.6 | 1335.6 | 1347.3 | 1394.2 | 1441.0 | 1464.5 | 1464.5 | 1405.9 | 1347.3 | 1323.9 | 1335.6 |
| 25°   | 1241.9 | 1241.9 | 1277.0 | 1288.7 | 1312.2 | 1312.2 | 1323.9 | 1265.3 | 1230.2 | 1195.0 | 1206.7 |
| 27.5° | 1171.6 | 1171.6 | 1183.3 | 1183.3 | 1195.0 | 1195.0 | 1206.7 | 1183.3 | 1136.4 | 1124.7 | 1124.7 |
| 30°   | 1124.7 | 1124.7 | 1113.0 | 1113.0 | 1113.0 | 1113.0 | 1124.7 | 1089.6 | 1066.1 | 1054.4 | 1054.4 |
| 32.5° | 1077.8 | 1066.1 | 1054.4 | 1054.4 | 1042.7 | 1042.7 | 1054.4 | 1019.3 | 1007.6 | 1007.6 | 1007.6 |
| 35°   | 937.3  | 925.5  | 937.3  | 960.7  | 960.7  | 972.4  | 972.4  | 960.7  | 937.3  | 913.8  | 902.1  |
| 37.5° | 878.7  | 867.0  | 867.0  | 867.0  | 890.4  | 902.1  | 913.8  | 890.4  | 855.2  | 820.1  | 820.1  |
| 40°   | 831.8  | 831.8  | 820.1  | 820.1  | 820.1  | 843.5  | 867.0  | 831.8  | 785.0  | 773.2  | 773.2  |
| 42.5° | 796.7  | 785.0  | 773.2  | 761.5  | 749.8  | 785.0  | 808.4  | 761.5  | 738.1  | 738.1  | 738.1  |
| 45°   | 761.5  | 749.8  | 738.1  | 726.4  | 714.7  | 726.4  | 749.8  | 702.9  | 691.2  | 691.2  | 691.2  |
| 47.5° | 726.4  | 714.7  | 691.2  | 679.5  | 667.8  | 667.8  | 691.2  | 656.1  | 644.4  | 656.1  | 656.1  |
| 50°   | 702.9  | 679.5  | 656.1  | 644.4  | 632.6  | 632.6  | 632.6  | 620.9  | 620.9  | 620.9  | 632.6  |
| 52.5° | 679.5  | 656.1  | 620.9  | 609.2  | 597.5  | 597.5  | 597.5  | 597.5  | 585.8  | 597.5  | 609.2  |
| 55°   | 644.4  | 620.9  | 597.5  | 585.8  | 574.1  | 562.4  | 574.1  | 562.4  | 562.4  | 574.1  | 574.1  |
| 57.5° | 597.5  | 574.1  | 550.6  | 550.6  | 538.9  | 538.9  | 550.6  | 538.9  | 538.9  | 550.6  | 550.6  |
| 60°   | 562.4  | 538.9  | 515.5  | 515.5  | 503.8  | 515.5  | 527.2  | 515.5  | 515.5  | 515.5  | 527.2  |
| 62.5° | 515.5  | 503.8  | 480.3  | 480.3  | 480.3  | 480.3  | 492.1  | 480.3  | 492.1  | 492.1  | 492.1  |
| 65°   | 480.3  | 456.9  | 445.2  | 445.2  | 445.2  | 445.2  | 468.6  | 445.2  | 456.9  | 456.9  | 456.9  |
| 67.5° | 445.2  | 421.8  | 410.1  | 410.1  | 410.1  | 410.1  | 433.5  | 410.1  | 421.8  | 433.5  | 421.8  |
| 70°   | 410.1  | 386.6  | 374.9  | 374.9  | 374.9  | 374.9  | 386.6  | 374.9  | 374.9  | 386.6  | 386.6  |
| 72.5° | 363.2  | 351.5  | 339.8  | 339.8  | 328.0  | 339.8  | 351.5  | 339.8  | 339.8  | 339.8  | 339.8  |
| 75°   | 328.0  | 316.3  | 316.3  | 304.6  | 304.6  | 304.6  | 316.3  | 292.9  | 292.9  | 292.9  | 292.9  |
| 77.5° | 304.6  | 281.2  | 281.2  | 281.2  | 269.5  | 281.2  | 269.5  | 246.0  | 246.0  | 246.0  | 246.0  |
| 80°   | 257.7  | 234.3  | 246.0  | 246.0  | 234.3  | 234.3  | 222.6  | 199.2  | 199.2  | 199.2  | 199.2  |
| 82.5° | 210.9  | 187.5  | 199.2  | 199.2  | 199.2  | 199.2  | 175.7  | 164.0  | 152.3  | 140.6  | 140.6  |
| 85°   | 187.5  | 152.3  | 175.7  | 175.7  | 164.0  | 164.0  | 117.2  | 117.2  | 93.7   | 93.7   | 82.0   |
| 87.5° | 35.1   | 23.4   | 46.9   | 58.6   | 58.6   | 70.3   | 46.9   | 58.6   | 35.1   | 23.4   | 23.4   |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°    | 270°    | 275°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 8365.0 | 8365.0 | 8365.0 | 8365.0 | 8365.0 | 8365.0 | 8365.0 | 8365.0 | 8365.0  | 8365.0  | 8365.0  |
| 2.5°  | 7427.8 | 7556.6 | 7732.4 | 7861.3 | 8060.4 | 8212.7 | 8447.0 | 8646.2 | 8833.7  | 8915.7  | 8997.7  |
| 5°    | 6232.8 | 6314.8 | 6584.2 | 6795.1 | 7111.4 | 7451.2 | 7873.0 | 8329.9 | 8798.5  | 9009.4  | 9255.4  |
| 7.5°  | 4662.9 | 4815.2 | 4967.5 | 5272.1 | 5658.7 | 6209.3 | 6748.3 | 7427.8 | 8083.9  | 8400.2  | 8821.9  |
| 10°   | 3620.2 | 3737.3 | 3913.1 | 4229.4 | 4592.6 | 5049.5 | 5693.8 | 6502.2 | 7287.2  | 7697.2  | 8130.7  |
| 12.5° | 2905.5 | 3069.5 | 3303.8 | 3631.9 | 4053.6 | 4522.3 | 4990.9 | 5740.7 | 6654.5  | 7123.2  | 7615.2  |
| 15°   | 2354.9 | 2483.7 | 2741.5 | 3151.5 | 3643.6 | 4123.9 | 4616.0 | 5236.9 | 6232.8  | 6771.7  | 7357.5  |
| 17.5° | 1874.5 | 1968.2 | 2202.6 | 2612.6 | 3104.7 | 3643.6 | 4205.9 | 4990.9 | 6092.2  | 6748.3  | 7439.5  |
| 20°   | 1523.0 | 1593.3 | 1745.6 | 2050.3 | 2518.9 | 3104.7 | 3807.6 | 4756.6 | 6174.2  | 7017.7  | 7861.3  |
| 22.5° | 1335.6 | 1359.0 | 1429.3 | 1593.3 | 1980.0 | 2600.9 | 3444.4 | 4557.4 | 6326.5  | 7416.1  | 8552.5  |
| 25°   | 1206.7 | 1230.2 | 1253.6 | 1359.0 | 1581.6 | 2167.4 | 3128.1 | 4440.3 | 6654.5  | 8001.8  | 9349.1  |
| 27.5° | 1124.7 | 1148.1 | 1159.9 | 1206.7 | 1359.0 | 1851.1 | 2858.6 | 4370.0 | 7099.7  | 8857.1  | 10333.3 |
| 30°   | 1054.4 | 1054.4 | 1089.6 | 1159.9 | 1265.3 | 1628.5 | 2624.3 | 4205.9 | 7568.4  | 9571.7  | 11106.5 |
| 32.5° | 995.8  | 1007.6 | 1054.4 | 1089.6 | 1159.9 | 1441.0 | 2390.0 | 3995.1 | 7990.1  | 10157.5 | 11868.0 |
| 35°   | 890.4  | 890.4  | 902.1  | 960.7  | 1054.4 | 1288.7 | 2179.1 | 3784.2 | 8224.4  | 10731.6 | 12547.5 |
| 37.5° | 820.1  | 831.8  | 855.2  | 902.1  | 984.1  | 1183.3 | 2003.4 | 3549.9 | 8470.5  | 11270.5 | 13344.2 |
| 40°   | 773.2  | 785.0  | 808.4  | 855.2  | 937.3  | 1089.6 | 1851.1 | 3362.4 | 8728.2  | 11856.3 | 14199.5 |
| 42.5° | 738.1  | 749.8  | 773.2  | 820.1  | 890.4  | 1066.1 | 1687.1 | 3210.1 | 8880.5  | 12395.2 | 15007.8 |
| 45°   | 702.9  | 714.7  | 749.8  | 796.7  | 855.2  | 1042.7 | 1593.3 | 3104.7 | 8939.1  | 12758.4 | 15652.2 |
| 47.5° | 667.8  | 679.5  | 714.7  | 785.0  | 855.2  | 1007.6 | 1558.2 | 3046.1 | 8986.0  | 13168.5 | 16167.7 |
| 50°   | 632.6  | 656.1  | 702.9  | 773.2  | 867.0  | 960.7  | 1534.8 | 3034.4 | 9255.4  | 13695.7 | 16659.8 |
| 52.5° | 609.2  | 644.4  | 691.2  | 773.2  | 855.2  | 890.4  | 1523.0 | 3069.5 | 9794.3  | 14480.6 | 17362.7 |
| 55°   | 585.8  | 620.9  | 667.8  | 773.2  | 820.1  | 831.8  | 1464.5 | 3128.1 | 10614.4 | 15570.2 | 18358.5 |
| 57.5° | 562.4  | 585.8  | 644.4  | 749.8  | 773.2  | 785.0  | 1347.3 | 3210.1 | 11434.5 | 16636.3 | 19377.8 |
| 60°   | 527.2  | 550.6  | 609.2  | 749.8  | 702.9  | 738.1  | 1195.0 | 3233.5 | 12020.3 | 16976.1 | 19471.5 |
| 62.5° | 492.1  | 515.5  | 574.1  | 773.2  | 644.4  | 691.2  | 1066.1 | 3151.5 | 12137.5 | 16484.0 | 18944.3 |
| 65°   | 456.9  | 480.3  | 527.2  | 644.4  | 597.5  | 644.4  | 984.1  | 2928.9 | 11750.9 | 15359.3 | 17983.6 |
| 67.5° | 421.8  | 445.2  | 480.3  | 527.2  | 538.9  | 585.8  | 949.0  | 2577.5 | 10778.5 | 13965.1 | 16671.5 |
| 70°   | 374.9  | 398.3  | 433.5  | 468.6  | 480.3  | 550.6  | 890.4  | 2237.7 | 9208.6  | 12102.3 | 15066.4 |
| 72.5° | 339.8  | 351.5  | 386.6  | 410.1  | 433.5  | 503.8  | 855.2  | 1956.5 | 7041.2  | 9794.3  | 12289.8 |
| 75°   | 292.9  | 292.9  | 328.0  | 351.5  | 374.9  | 445.2  | 785.0  | 1628.5 | 4967.5  | 7474.6  | 9032.8  |
| 77.5° | 246.0  | 246.0  | 269.5  | 292.9  | 316.3  | 386.6  | 667.8  | 1323.9 | 3444.4  | 5928.2  | 6549.1  |
| 80°   | 187.5  | 187.5  | 210.9  | 234.3  | 257.7  | 328.0  | 538.9  | 972.4  | 2132.3  | 4334.8  | 4768.3  |
| 82.5° | 128.9  | 128.9  | 164.0  | 175.7  | 187.5  | 257.7  | 410.1  | 667.8  | 1253.6  | 3128.1  | 3409.3  |
| 85°   | 70.3   | 70.3   | 93.7   | 105.4  | 128.9  | 187.5  | 304.6  | 468.6  | 749.8   | 2261.1  | 2272.9  |
| 87.5° | 11.7   | 11.7   | 35.1   | 35.1   | 58.6   | 93.7   | 175.7  | 257.7  | 421.8   | 1253.6  | 796.7   |
| 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):**

|       | 285°    | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 359°    | 360°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8365.0  | 8365.0  | 8365.0  | 8365.0  | 8365.0  | 8365.0  | 8365.0  | 8365.0  | 8365.0  | 8365.0  |
| 2.5°  | 9150.0  | 9278.9  | 9290.6  | 9290.6  | 9232.0  | 9243.7  | 9079.7  | 8904.0  | 8845.4  | 8833.7  |
| 5°    | 9630.3  | 9970.1  | 10063.8 | 10110.7 | 9958.4  | 9724.1  | 9302.3  | 8845.4  | 8611.1  | 8575.9  |
| 7.5°  | 9536.6  | 10216.1 | 10579.3 | 10626.2 | 10321.6 | 9770.9  | 9032.8  | 8329.9  | 8060.4  | 7990.1  |
| 10°   | 8986.0  | 9899.8  | 10555.9 | 10719.9 | 10391.8 | 9688.9  | 8728.2  | 7908.1  | 7580.1  | 7521.5  |
| 12.5° | 8599.3  | 9478.0  | 10122.4 | 10345.0 | 10192.7 | 9583.5  | 8575.9  | 7638.7  | 7310.6  | 7228.6  |
| 15°   | 8388.5  | 9196.8  | 9618.6  | 9688.9  | 9677.2  | 9419.4  | 8575.9  | 7697.2  | 7334.0  | 7240.3  |
| 17.5° | 8564.2  | 9114.8  | 9173.4  | 9009.4  | 9103.1  | 9232.0  | 8763.4  | 8013.6  | 7662.1  | 7580.1  |
| 20°   | 8915.7  | 9079.7  | 8798.5  | 8552.5  | 8599.3  | 9009.4  | 9056.3  | 8611.1  | 8329.9  | 8189.3  |
| 22.5° | 9653.8  | 9208.6  | 8564.2  | 8224.4  | 8259.6  | 8833.7  | 9442.9  | 9419.4  | 9173.4  | 9103.1  |
| 25°   | 10403.6 | 9571.7  | 8493.9  | 8095.6  | 8142.4  | 8798.5  | 9899.8  | 10321.6 | 10192.7 | 10157.5 |
| 27.5° | 11235.4 | 10181.0 | 8540.8  | 8037.0  | 8095.6  | 8845.4  | 10216.1 | 11083.1 | 11106.5 | 11071.4 |
| 30°   | 11797.7 | 10473.9 | 8681.4  | 8107.3  | 8189.3  | 8962.5  | 10286.4 | 11540.0 | 11750.9 | 11762.6 |
| 32.5° | 12266.4 | 10766.8 | 8974.2  | 8224.4  | 8365.0  | 9173.4  | 10473.9 | 11973.5 | 12442.1 | 12453.8 |
| 35°   | 12641.3 | 11094.8 | 9337.4  | 8435.3  | 8646.2  | 9524.9  | 10719.9 | 12383.5 | 13086.5 | 13168.5 |
| 37.5° | 13121.6 | 11458.0 | 9759.2  | 8892.2  | 9126.5  | 10028.7 | 11153.4 | 12863.9 | 13848.0 | 14070.6 |
| 40°   | 13637.1 | 11821.2 | 10368.4 | 9630.3  | 9970.1  | 10778.5 | 11645.4 | 13402.8 | 14492.4 | 14797.0 |
| 42.5° | 14211.2 | 12207.8 | 11059.6 | 10626.2 | 11141.7 | 11727.4 | 12207.8 | 13894.8 | 14984.4 | 15335.9 |
| 45°   | 14773.5 | 12676.4 | 12067.2 | 11985.2 | 12559.3 | 12852.2 | 12758.4 | 14246.3 | 15453.0 | 15804.5 |
| 47.5° | 15171.9 | 13355.9 | 13285.6 | 13777.7 | 14316.6 | 14164.3 | 13402.8 | 14504.1 | 15839.7 | 16226.3 |
| 50°   | 15535.1 | 14199.5 | 14820.4 | 15781.1 | 16109.1 | 15593.6 | 14094.0 | 14855.5 | 16249.7 | 16683.2 |
| 52.5° | 16074.0 | 15101.6 | 16402.0 | 17597.0 | 17913.3 | 17093.2 | 14843.8 | 15429.6 | 16882.4 | 17269.0 |
| 55°   | 17175.3 | 16120.8 | 18053.9 | 19424.7 | 19483.3 | 18464.0 | 15851.4 | 16402.0 | 17772.8 | 18218.0 |
| 57.5° | 18405.4 | 17374.4 | 19366.1 | 20936.0 | 20912.6 | 19834.7 | 16987.8 | 17714.2 | 18979.5 | 19284.1 |
| 60°   | 19518.4 | 18639.7 | 20795.4 | 22013.8 | 21955.3 | 20830.6 | 18311.7 | 19202.1 | 20361.9 | 20596.2 |
| 62.5° | 20174.5 | 19787.9 | 21428.1 | 22353.6 | 22131.0 | 21158.6 | 19436.4 | 20526.0 | 21346.1 | 21428.1 |
| 65°   | 20069.0 | 20443.9 | 20690.0 | 21264.0 | 20947.7 | 20244.8 | 19987.0 | 21369.5 | 21451.5 | 21369.5 |
| 67.5° | 19272.4 | 20069.0 | 18663.1 | 18721.7 | 18557.7 | 17960.2 | 19131.8 | 21146.9 | 20584.5 | 20385.4 |
| 70°   | 18065.6 | 18124.2 | 15605.3 | 14867.3 | 15125.0 | 14304.9 | 16413.7 | 19413.0 | 18546.0 | 18300.0 |
| 72.5° | 16062.3 | 15335.9 | 11797.7 | 11047.9 | 11434.5 | 10848.8 | 13168.5 | 16917.5 | 16074.0 | 15277.3 |
| 75°   | 13473.1 | 12149.2 | 8986.0  | 7919.8  | 8119.0  | 8095.6  | 10204.4 | 13976.9 | 12453.8 | 11657.1 |
| 77.5° | 10438.7 | 9466.3  | 6631.1  | 6221.0  | 6010.2  | 6057.0  | 7123.2  | 10391.8 | 9032.8  | 8037.0  |
| 80°   | 7626.9  | 6619.4  | 5131.5  | 5365.8  | 5248.6  | 4967.5  | 4990.9  | 6959.1  | 6279.6  | 5682.1  |
| 82.5° | 5272.1  | 4709.7  | 4159.1  | 4698.0  | 4416.8  | 3983.3  | 3889.6  | 5014.3  | 4709.7  | 4346.5  |
| 85°   | 3538.1  | 3877.9  | 3303.8  | 3596.7  | 3116.4  | 2870.4  | 3655.3  | 4194.2  | 3385.8  | 3022.7  |
| 87.5° | 2308.0  | 3549.9  | 2378.3  | 1804.2  | 1031.0  | 1382.5  | 2237.7  | 2753.2  | 1581.6  | 855.2   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)