

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: P484346

Luminaire Tested: **IFLD-L-SA7D-730-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484346  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-730-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3  
distribution lens with House Side Shield  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

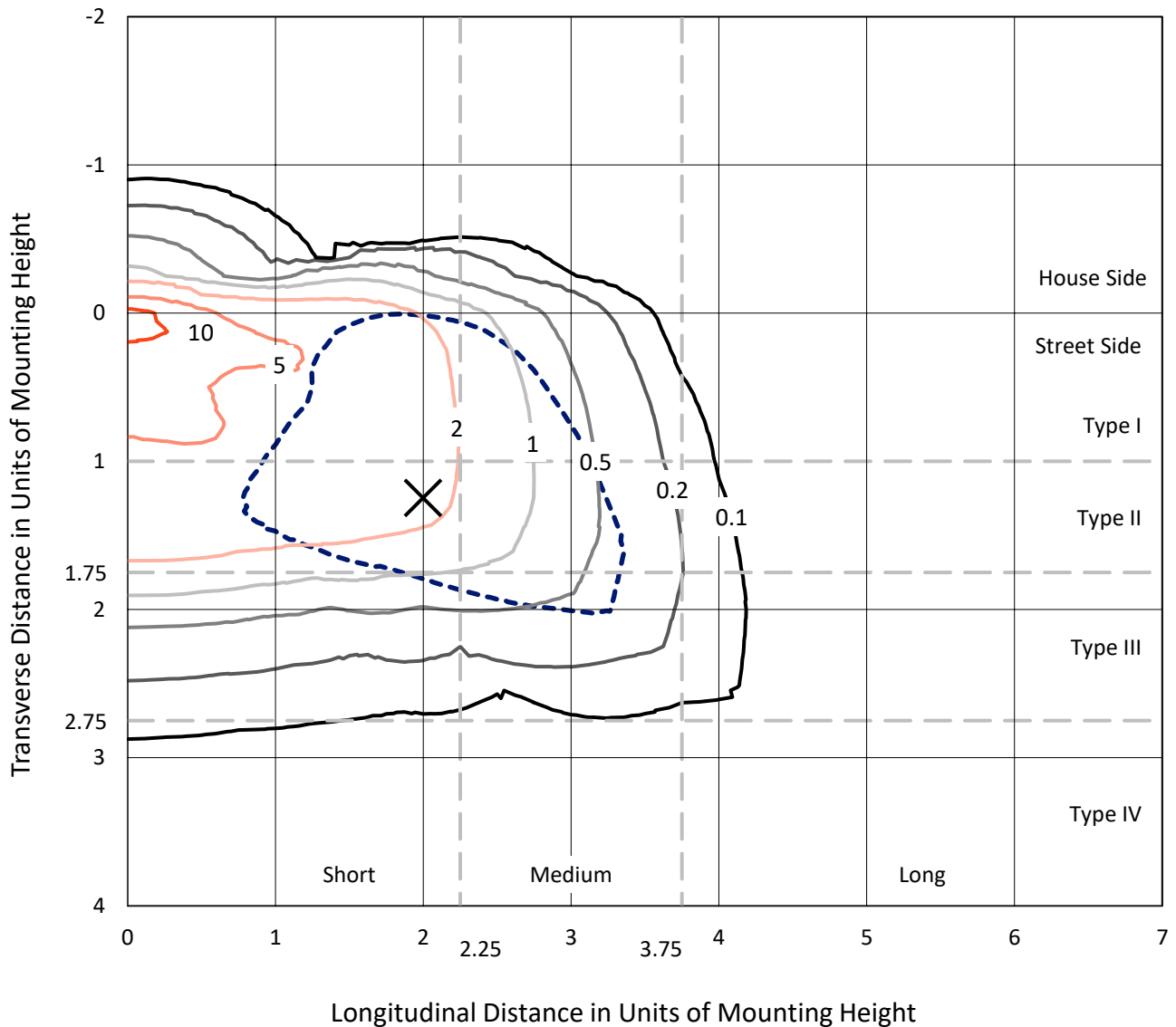
Lumens per Lamp: N/A  
Luminaire Lumens: 37146.7 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6  
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: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

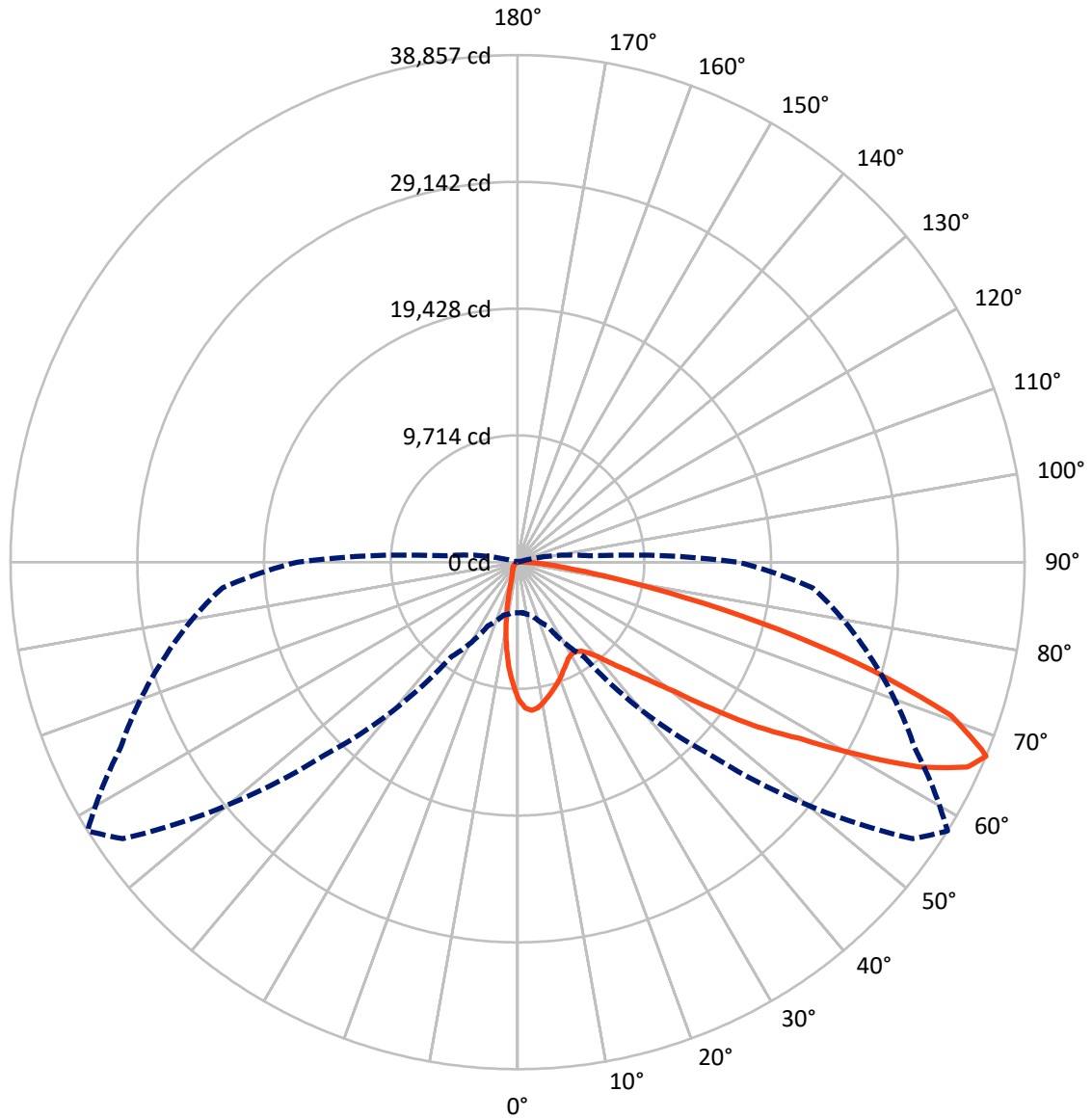
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3070.4   | 0.0    | 3070.4  |
|                    | % Fixture | 8.3      | 0.0    | 8.3     |
| <b>Street Side</b> | Lumens    | 34076.3  | 0.0    | 34076.3 |
|                    | % Fixture | 91.7     | 0.0    | 91.7    |
| <b>Total</b>       | Lumens    | 37146.7  | 0.0    | 37146.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 835.0   | 2.2       |
| 10°-20°   | 1732.0  | 4.7       |
| 20°-30°   | 2298.0  | 6.2       |
| 30°-40°   | 3184.3  | 8.6       |
| 40°-50°   | 5195.9  | 14.0      |
| 50°-60°   | 9132.8  | 24.6      |
| 60°-70°   | 10115.3 | 27.2      |
| 70°-80°   | 4191.8  | 11.3      |
| 80°-90°   | 461.4   | 1.2       |
| 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°    | 37146.7 | 100.0     |
| 0°-180°   | 37146.7 | 100.0     |



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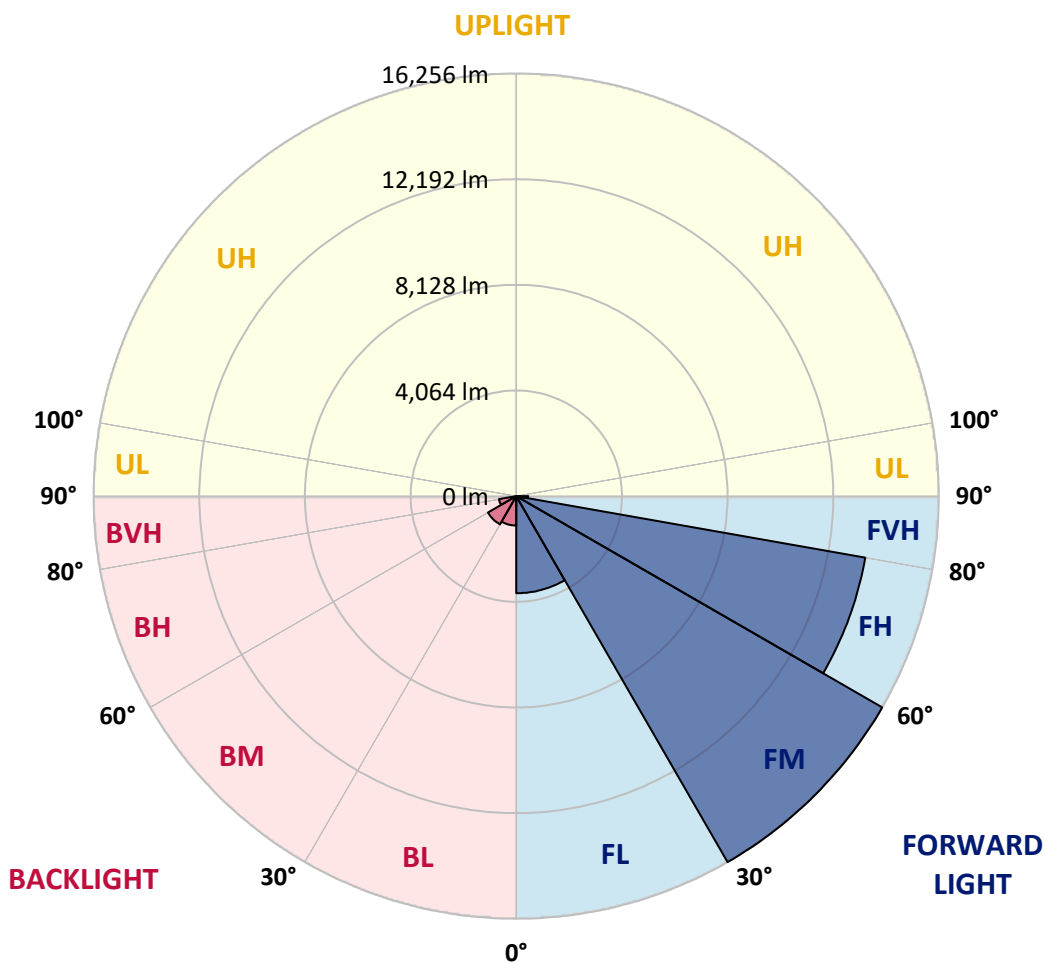
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3734.3  | 10.1      |                         |      |         |
| FM (30°-60°)   | 16256.2 | 43.8      |                         |      |         |
| FH (60°-80°)   | 13632.0 | 36.7      |                         |      | G5      |
| FVH (80°-90°)  | 453.8   | 1.2       |                         |      | G3/500  |
| BL (0°-30°)    | 1130.9  | 3.0       | B3/2500                 |      |         |
| BM (30°-60°)   | 1256.9  | 3.4       | B2/2500                 |      |         |
| BH (60°-80°)   | 675.1   | 1.8       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 7.6     | 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10524.2 | 10524.2 | 10524.2 | 10524.2 | 10524.2 | 10524.2 | 10524.2 | 10524.2 | 10524.2 | 10524.2 | 10524.2 |
| 2.5°  | 11451.3 | 11490.8 | 11525.3 | 11461.2 | 11515.4 | 11436.5 | 11234.3 | 11190.0 | 11155.4 | 10854.6 | 10682.0 |
| 5°    | 11446.4 | 11402.0 | 11436.5 | 11466.1 | 11392.2 | 11451.3 | 11402.0 | 11406.9 | 11273.8 | 11002.6 | 10519.2 |
| 7.5°  | 10682.0 | 10662.3 | 10682.0 | 10825.0 | 10987.8 | 11116.0 | 11190.0 | 11263.9 | 11175.2 | 10770.8 | 10302.3 |
| 10°   | 9651.3  | 9749.9  | 9804.2  | 10060.6 | 10312.1 | 10548.8 | 10780.6 | 10918.7 | 10894.1 | 10731.3 | 10065.5 |
| 12.5° | 8931.3  | 8901.7  | 9098.9  | 9266.6  | 9518.1  | 9996.5  | 10400.9 | 10529.1 | 10677.1 | 10450.2 | 9754.8  |
| 15°   | 8265.5  | 8186.6  | 8304.9  | 8595.9  | 9025.0  | 9404.7  | 9971.8  | 10164.2 | 10351.6 | 10410.8 | 9587.2  |
| 17.5° | 7629.3  | 7668.7  | 7792.0  | 8053.4  | 8457.8  | 8990.4  | 9523.1  | 9799.2  | 10248.0 | 10169.1 | 9335.6  |
| 20°   | 7323.5  | 7407.4  | 7451.8  | 7584.9  | 7866.0  | 8398.6  | 9192.6  | 9414.6  | 9892.9  | 10164.2 | 9089.1  |
| 22.5° | 7338.3  | 7338.3  | 7234.8  | 7313.7  | 7570.1  | 7984.4  | 8743.8  | 8990.4  | 9749.9  | 9907.7  | 8867.1  |
| 25°   | 7496.1  | 7397.5  | 7402.4  | 7308.7  | 7417.2  | 7644.1  | 8339.5  | 8640.3  | 9458.9  | 9932.4  | 8748.8  |
| 27.5° | 7614.5  | 7594.8  | 7565.2  | 7540.5  | 7402.4  | 7437.0  | 8073.1  | 8319.7  | 9345.5  | 9902.8  | 8566.3  |
| 30°   | 8043.6  | 7954.8  | 7925.2  | 7870.9  | 7688.5  | 7520.8  | 7861.1  | 8171.8  | 9256.7  | 9971.8  | 8462.7  |
| 32.5° | 8403.6  | 8418.4  | 8443.0  | 8285.2  | 8127.4  | 7713.1  | 7920.3  | 8166.8  | 9192.6  | 10129.6 | 8566.3  |
| 35°   | 8857.3  | 8921.4  | 8931.3  | 8881.9  | 8714.3  | 8304.9  | 8166.8  | 8378.9  | 9301.1  | 10410.8 | 8576.2  |
| 37.5° | 9547.7  | 9478.7  | 9666.1  | 9685.8  | 9567.4  | 9025.0  | 8738.9  | 8822.8  | 9621.7  | 10859.5 | 8951.0  |
| 40°   | 9996.5  | 10080.3 | 10430.5 | 10647.5 | 10445.3 | 9952.1  | 9567.4  | 9552.6  | 10085.3 | 11564.8 | 9414.6  |
| 42.5° | 10494.6 | 10682.0 | 11066.7 | 11535.2 | 11510.5 | 11051.9 | 10662.3 | 10598.2 | 10908.9 | 12585.6 | 10149.4 |
| 45°   | 11175.2 | 11342.8 | 11880.4 | 12585.6 | 12970.3 | 12580.7 | 11993.8 | 11865.6 | 11910.0 | 13976.3 | 11402.0 |
| 47.5° | 12304.5 | 12260.1 | 13034.4 | 13729.8 | 14361.0 | 14060.2 | 13808.7 | 13433.9 | 13399.3 | 15613.7 | 13133.0 |
| 50°   | 13581.8 | 13572.0 | 14262.4 | 15051.5 | 15781.3 | 16368.2 | 15949.0 | 15539.7 | 15549.6 | 17837.8 | 15169.8 |
| 52.5° | 14795.0 | 14987.3 | 15732.0 | 16516.2 | 17768.8 | 18400.1 | 18804.5 | 18641.7 | 17857.6 | 19825.3 | 17349.6 |
| 55°   | 15436.1 | 15603.8 | 16343.5 | 17694.8 | 19672.4 | 21294.9 | 22389.8 | 22251.7 | 20737.7 | 22064.3 | 19499.8 |
| 57.5° | 14829.5 | 14943.0 | 15944.1 | 17714.6 | 21004.0 | 24623.8 | 25674.3 | 25501.7 | 23716.4 | 23775.6 | 22098.8 |
| 60°   | 12289.7 | 12467.3 | 13956.6 | 16032.9 | 20486.2 | 27188.3 | 30196.6 | 29935.2 | 26428.8 | 25940.6 | 23770.6 |
| 62.5° | 8512.1  | 8630.4  | 9853.5  | 12437.7 | 18030.2 | 28080.9 | 34467.4 | 34610.4 | 29289.2 | 27627.2 | 24268.7 |
| 65°   | 5513.6  | 5503.7  | 6204.0  | 7954.8  | 12778.0 | 25378.4 | 36992.4 | 37880.1 | 32050.9 | 27883.7 | 24115.9 |
| 67°   | 3896.0  | 3881.2  | 4211.6  | 5395.2  | 8847.4  | 20910.3 | 36948.1 | 38856.6 | 33550.1 | 27957.6 | 22700.5 |
| 67.5° | 3595.2  | 3580.4  | 3896.0  | 4961.3  | 7984.4  | 19445.6 | 36395.7 | 38353.6 | 34077.8 | 27854.1 | 22079.1 |
| 70°   | 2791.3  | 2751.9  | 2870.2  | 3417.6  | 4650.6  | 12575.8 | 31148.4 | 35231.8 | 32983.0 | 25269.9 | 17630.7 |
| 72.5° | 2017.1  | 2061.4  | 2248.8  | 2806.1  | 3649.4  | 6766.2  | 23741.1 | 28490.2 | 27548.3 | 19046.1 | 11204.8 |
| 75°   | 1405.5  | 1445.0  | 1745.8  | 2288.3  | 3348.6  | 4103.1  | 16052.6 | 20663.7 | 19189.1 | 10514.3 | 4773.9  |
| 77.5° | 734.8   | 784.1   | 1114.6  | 1829.6  | 3042.8  | 3176.0  | 9592.1  | 13103.4 | 10169.1 | 3743.1  | 1316.8  |
| 80°   | 340.3   | 364.9   | 557.3   | 1297.0  | 2544.7  | 2791.3  | 5592.5  | 7289.0  | 4068.6  | 838.4   | 453.7   |
| 82.5° | 148.0   | 162.7   | 256.4   | 744.7   | 1805.0  | 2441.2  | 3462.0  | 3822.0  | 1474.6  | 271.2   | 281.1   |
| 85°   | 29.6    | 34.5    | 98.6    | 394.5   | 872.9   | 1479.5  | 2431.3  | 2268.6  | 739.8   | 133.2   | 221.9   |
| 87.5° | 0.0     | 0.0     | 24.7    | 113.4   | 236.7   | 438.9   | 1030.7  | 1030.7  | 226.9   | 69.0    | 83.8    |
| 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°    | 10524.2 | 10524.2 | 10524.2 | 10524.2 | 10524.2 | 10524.2 | 10524.2 | 10524.2 | 10524.2 | 10524.2 | 10524.2 |
| 2.5°  | 10529.1 | 10351.6 | 9962.0  | 9602.0  | 9345.5  | 9054.5  | 8669.9  | 8497.3  | 8433.2  | 8344.4  | 8211.2  |
| 5°    | 10252.9 | 10035.9 | 9370.2  | 8699.5  | 7964.6  | 7407.4  | 6815.6  | 6470.3  | 6209.0  | 6046.2  | 5992.0  |
| 7.5°  | 9863.3  | 9419.5  | 8521.9  | 7446.8  | 6495.0  | 5666.5  | 4768.9  | 4162.3  | 3772.7  | 3614.9  | 3467.0  |
| 10°   | 9552.6  | 8975.6  | 7609.6  | 6273.1  | 5005.6  | 3792.5  | 2781.5  | 2248.8  | 1844.4  | 1691.6  | 1671.8  |
| 12.5° | 9148.2  | 8457.8  | 6756.4  | 5074.7  | 3481.8  | 2258.7  | 1538.7  | 1336.5  | 1223.1  | 1203.3  | 1188.5  |
| 15°   | 8812.9  | 7989.3  | 5947.6  | 3930.5  | 2253.8  | 1410.5  | 1198.4  | 1149.1  | 1119.5  | 1109.6  | 1114.6  |
| 17.5° | 8586.0  | 7486.3  | 5119.1  | 2860.4  | 1484.4  | 1154.0  | 1104.7  | 1075.1  | 1060.3  | 1055.4  | 1040.6  |
| 20°   | 8137.3  | 7062.1  | 4300.4  | 2002.3  | 1158.9  | 1065.2  | 1025.8  | 1001.1  | 986.3   | 981.4   | 976.5   |
| 22.5° | 7880.8  | 6524.6  | 3481.8  | 1395.7  | 1030.7  | 966.6   | 937.0   | 917.3   | 892.6   | 877.8   | 872.9   |
| 25°   | 7624.4  | 6130.1  | 2751.9  | 1085.0  | 937.0   | 892.6   | 848.2   | 823.6   | 784.1   | 764.4   | 759.5   |
| 27.5° | 7323.5  | 5740.5  | 2120.6  | 941.9   | 843.3   | 798.9   | 754.5   | 715.1   | 665.8   | 646.0   | 636.2   |
| 30°   | 7150.9  | 5360.7  | 1597.9  | 843.3   | 774.3   | 715.1   | 660.8   | 611.5   | 557.3   | 522.8   | 512.9   |
| 32.5° | 7062.1  | 5015.5  | 1198.4  | 769.3   | 700.3   | 636.2   | 567.1   | 508.0   | 458.6   | 429.1   | 424.1   |
| 35°   | 6953.7  | 4680.2  | 941.9   | 700.3   | 631.3   | 562.2   | 493.2   | 434.0   | 384.7   | 360.0   | 350.1   |
| 37.5° | 7067.1  | 4482.9  | 784.1   | 646.0   | 577.0   | 498.1   | 424.1   | 364.9   | 325.5   | 300.8   | 295.9   |
| 40°   | 7377.8  | 4320.1  | 680.6   | 596.7   | 522.8   | 438.9   | 369.9   | 310.7   | 276.2   | 256.4   | 246.6   |
| 42.5° | 7856.1  | 4320.1  | 616.5   | 547.4   | 473.4   | 384.7   | 315.6   | 271.2   | 236.7   | 217.0   | 212.1   |
| 45°   | 8724.1  | 4453.3  | 562.2   | 498.1   | 414.3   | 330.4   | 271.2   | 226.9   | 192.3   | 172.6   | 167.7   |
| 47.5° | 9942.2  | 4759.1  | 517.8   | 453.7   | 369.9   | 291.0   | 236.7   | 192.3   | 157.8   | 138.1   | 133.2   |
| 50°   | 11579.6 | 5454.4  | 473.4   | 399.5   | 330.4   | 251.5   | 197.3   | 152.9   | 123.3   | 103.6   | 98.6    |
| 52.5° | 13621.3 | 6440.8  | 429.1   | 369.9   | 281.1   | 212.1   | 157.8   | 123.3   | 93.7    | 78.9    | 74.0    |
| 55°   | 15781.3 | 7649.0  | 374.8   | 330.4   | 241.7   | 177.5   | 128.2   | 93.7    | 69.0    | 59.2    | 54.2    |
| 57.5° | 17956.2 | 8581.1  | 330.4   | 286.0   | 197.3   | 143.0   | 103.6   | 74.0    | 49.3    | 39.5    | 34.5    |
| 60°   | 19110.2 | 8669.9  | 286.0   | 236.7   | 157.8   | 113.4   | 78.9    | 54.2    | 34.5    | 24.7    | 19.7    |
| 62.5° | 19287.8 | 7880.8  | 246.6   | 192.3   | 128.2   | 88.8    | 54.2    | 39.5    | 19.7    | 9.9     | 9.9     |
| 65°   | 18375.4 | 6569.0  | 212.1   | 152.9   | 98.6    | 64.1    | 39.5    | 24.7    | 9.9     | 4.9     | 0.0     |
| 67°   | 16895.9 | 5503.7  | 182.5   | 128.2   | 78.9    | 49.3    | 29.6    | 14.8    | 4.9     | 0.0     | 0.0     |
| 67.5° | 16323.8 | 5207.8  | 172.6   | 118.4   | 74.0    | 44.4    | 24.7    | 14.8    | 4.9     | 0.0     | 0.0     |
| 70°   | 12669.5 | 3718.5  | 128.2   | 83.8    | 54.2    | 34.5    | 19.7    | 9.9     | 0.0     | 0.0     | 0.0     |
| 72.5° | 7762.4  | 2174.9  | 98.6    | 59.2    | 39.5    | 24.7    | 14.8    | 4.9     | 0.0     | 0.0     | 0.0     |
| 75°   | 3254.9  | 749.6   | 83.8    | 44.4    | 29.6    | 14.8    | 9.9     | 4.9     | 0.0     | 0.0     | 0.0     |
| 77.5° | 848.2   | 281.1   | 59.2    | 29.6    | 19.7    | 14.8    | 9.9     | 4.9     | 0.0     | 0.0     | 0.0     |
| 80°   | 345.2   | 128.2   | 39.5    | 19.7    | 19.7    | 14.8    | 9.9     | 4.9     | 0.0     | 0.0     | 0.0     |
| 82.5° | 226.9   | 59.2    | 24.7    | 19.7    | 14.8    | 9.9     | 4.9     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 172.6   | 34.5    | 14.8    | 14.8    | 9.9     | 4.9     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 74.0    | 19.7    | 14.8    | 9.9     | 9.9     | 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)