

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: P480240

Luminaire Tested: **IFLD-S-SA6C-827-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480240  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-827-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

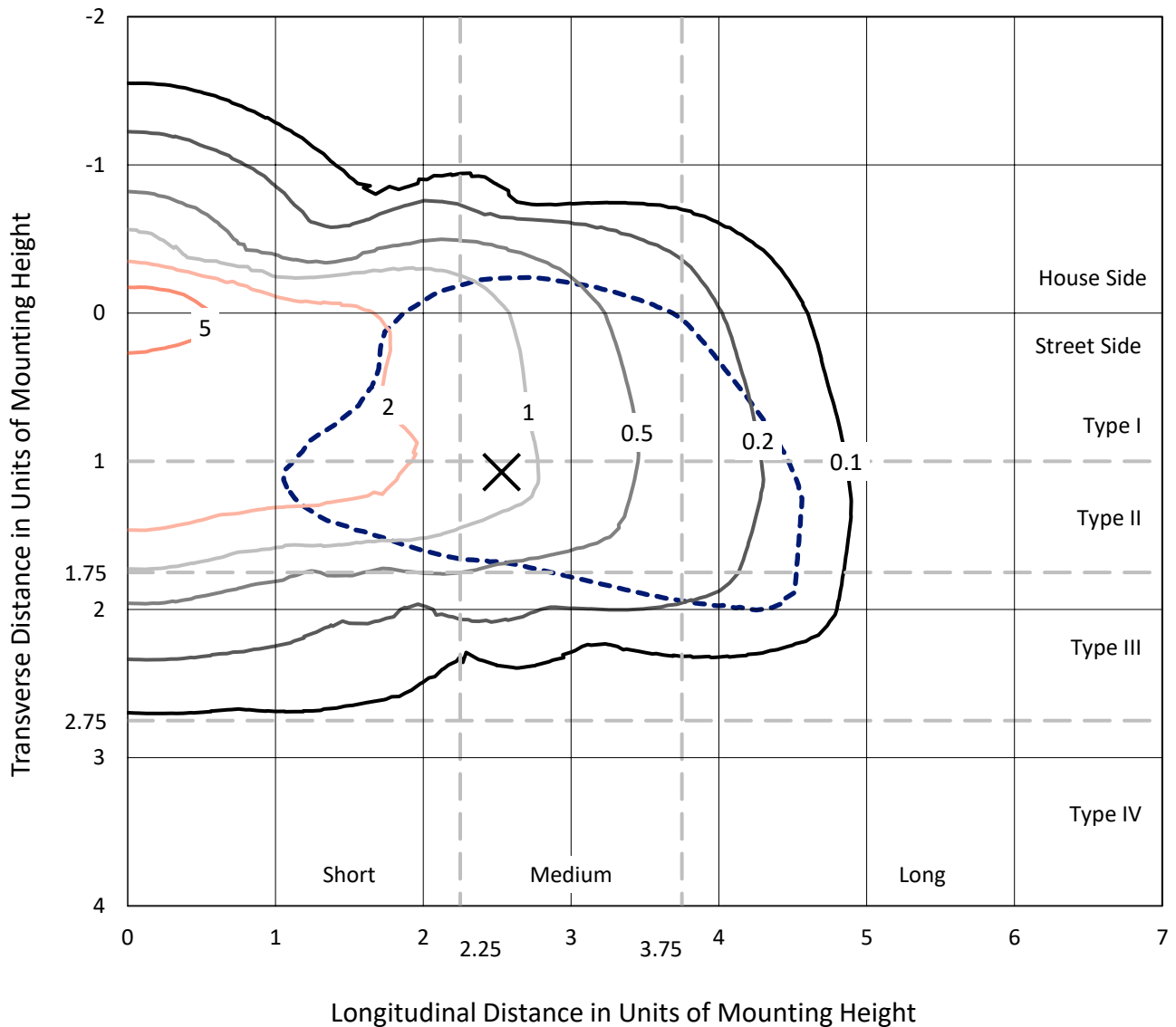
Lumens per Lamp: N/A  
Luminaire Lumens: 30454.9 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5  
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

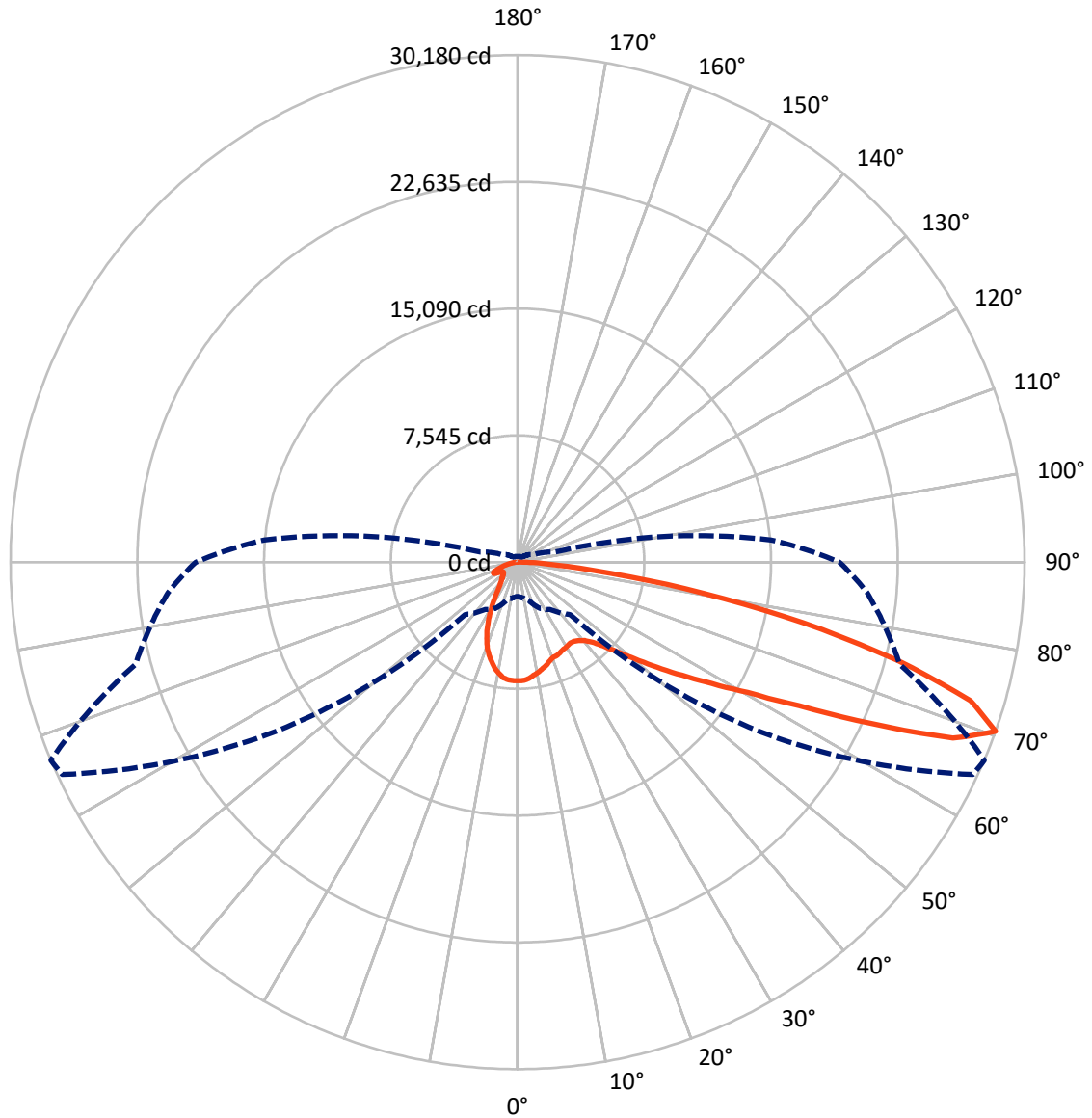
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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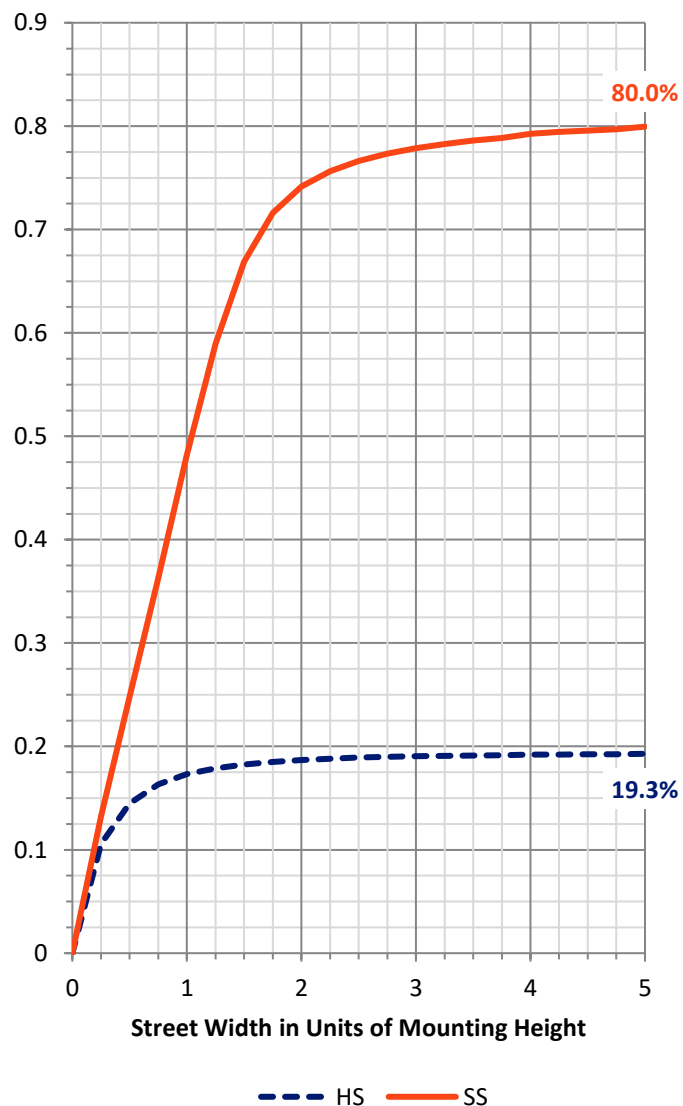
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5931.4   | 0.0    | 5931.4  |
|                    | % Fixture | 19.5     | 0.0    | 19.5    |
| <b>Street Side</b> | Lumens    | 24523.5  | 0.0    | 24523.5 |
|                    | % Fixture | 80.5     | 0.0    | 80.5    |
| <b>Total</b>       | Lumens    | 30454.9  | 0.0    | 30454.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 615.1   | 2.0       |
| 10°-20°   | 1473.3  | 4.8       |
| 20°-30°   | 1989.5  | 6.5       |
| 30°-40°   | 2662.2  | 8.7       |
| 40°-50°   | 3914.6  | 12.9      |
| 50°-60°   | 6101.9  | 20.0      |
| 60°-70°   | 7516.6  | 24.7      |
| 70°-80°   | 5311.1  | 17.4      |
| 80°-90°   | 870.5   | 2.9       |
| 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°    | 30454.9 | 100.0     |
| 0°-180°   | 30454.9 | 100.0     |

**Coefficient of Utilization**

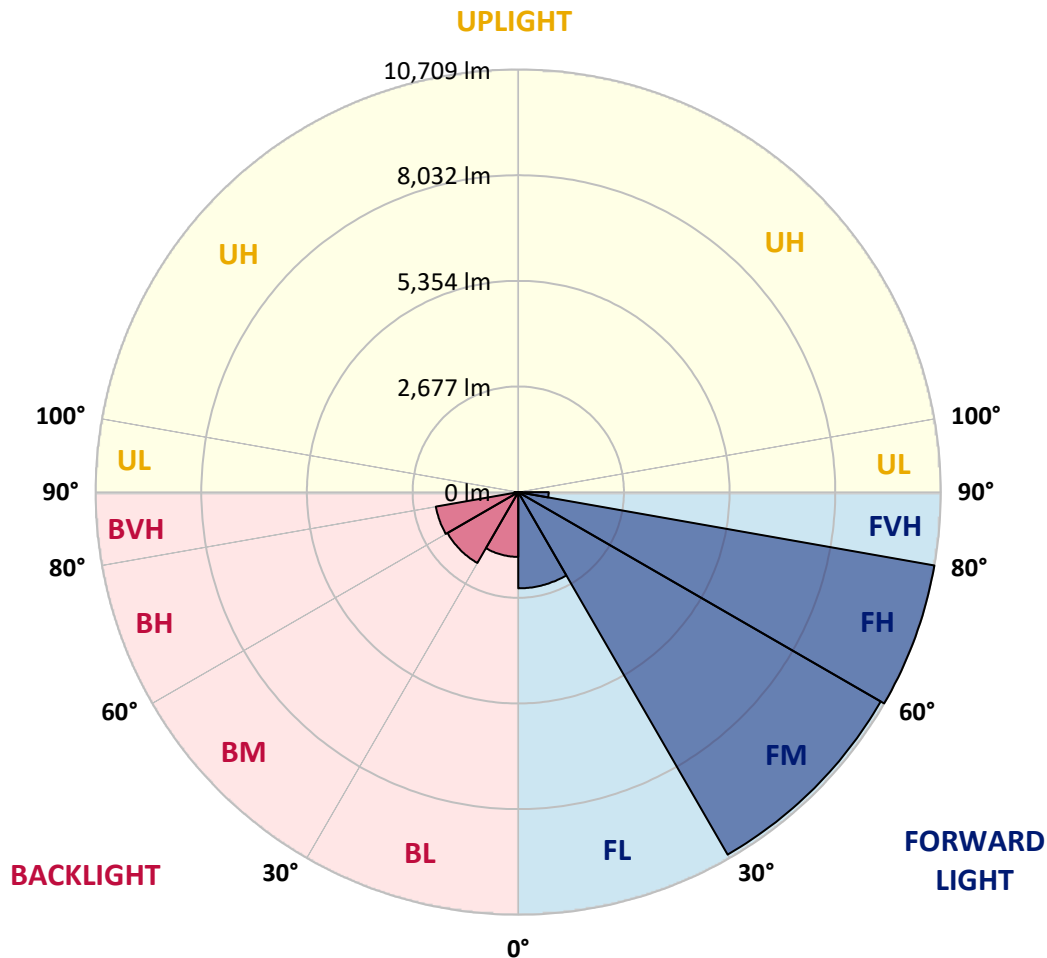


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2437.7  | 8.0       |                         |      |          |
| FM (30°-60°)   | 10606.8 | 34.8      |                         |      |          |
| FH (60°-80°)   | 10708.9 | 35.2      |                         |      | G4/12000 |
| FVH (80°-90°)  | 770.1   | 2.5       |                         |      | G5       |
| BL (0°-30°)    | 1640.2  | 5.4       | B3/2500                 |      |          |
| BM (30°-60°)   | 2072.0  | 6.8       | B2/2500                 |      |          |
| BH (60°-80°)   | 2118.8  | 7.0       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 100.4   | 0.3       |                         |      | G2/225   |
| 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°     | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7050.2  | 7050.2  | 7050.2  | 7050.2  | 7050.2  | 7050.2  | 7050.2  | 7050.2  | 7050.2  | 7050.2  | 7050.2  |
| 2.5°  | 6564.7  | 6638.9  | 6665.8  | 6706.3  | 6810.8  | 6888.4  | 6935.6  | 6989.5  | 7053.6  | 7107.5  | 7141.2  |
| 5°    | 6106.1  | 6146.6  | 6210.7  | 6254.5  | 6386.0  | 6595.0  | 6736.6  | 6965.9  | 6959.2  | 7043.5  | 7171.6  |
| 7.5°  | 5661.1  | 5701.5  | 5731.9  | 5819.5  | 6008.4  | 6197.2  | 6456.8  | 6827.7  | 6800.7  | 6996.3  | 7195.2  |
| 10°   | 5384.6  | 5354.2  | 5364.4  | 5512.7  | 5661.1  | 5873.5  | 6200.5  | 6578.2  | 6675.9  | 6979.4  | 7262.6  |
| 12.5° | 5125.0  | 5091.3  | 5172.2  | 5266.6  | 5448.7  | 5640.8  | 6032.0  | 6372.5  | 6520.9  | 6918.7  | 7293.0  |
| 15°   | 4963.1  | 4939.5  | 5040.7  | 5081.1  | 5296.9  | 5526.2  | 5802.7  | 6217.4  | 6379.2  | 6844.5  | 7245.8  |
| 17.5° | 4872.1  | 4892.3  | 4929.4  | 5017.1  | 5155.3  | 5350.9  | 5654.3  | 6112.9  | 6183.7  | 6753.5  | 7235.7  |
| 20°   | 4889.0  | 4912.6  | 4915.9  | 4953.0  | 5047.4  | 5199.1  | 5509.3  | 6001.6  | 6048.8  | 6736.6  | 7262.6  |
| 22.5° | 5023.8  | 4990.1  | 5003.6  | 4980.0  | 5007.0  | 5125.0  | 5398.1  | 5853.3  | 6035.3  | 6595.0  | 7205.3  |
| 25°   | 5226.1  | 5178.9  | 5172.2  | 5091.3  | 5040.7  | 5074.4  | 5377.8  | 5816.2  | 5934.2  | 6551.2  | 7201.9  |
| 27.5° | 5583.5  | 5512.7  | 5512.7  | 5391.3  | 5185.7  | 5131.7  | 5320.5  | 5755.5  | 5860.0  | 6510.7  | 7124.4  |
| 30°   | 5927.4  | 5927.4  | 5930.8  | 5758.8  | 5529.6  | 5263.2  | 5344.1  | 5731.9  | 5799.3  | 6389.4  | 7019.9  |
| 32.5° | 6345.5  | 6335.4  | 6318.6  | 6234.3  | 5880.2  | 5482.4  | 5458.8  | 5701.5  | 5735.2  | 6348.9  | 6989.5  |
| 35°   | 6753.5  | 6726.5  | 6858.0  | 6783.8  | 6423.1  | 5910.6  | 5576.8  | 5715.0  | 5789.2  | 6288.2  | 6895.1  |
| 37.5° | 7060.3  | 7077.2  | 7350.3  | 7397.5  | 7087.3  | 6396.1  | 5910.6  | 5849.9  | 5920.7  | 6375.9  | 6895.1  |
| 40°   | 7458.2  | 7525.6  | 7781.9  | 7940.3  | 7751.5  | 7036.7  | 6439.9  | 6075.8  | 6126.4  | 6571.4  | 7043.5  |
| 42.5° | 7980.8  | 8038.1  | 8365.2  | 8570.8  | 8516.9  | 7852.7  | 6962.5  | 6547.8  | 6507.4  | 6898.5  | 7266.0  |
| 45°   | 8672.0  | 8682.1  | 9012.5  | 9295.8  | 9407.0  | 8705.7  | 7792.0  | 7144.6  | 7110.9  | 7461.6  | 7674.0  |
| 47.5° | 9494.7  | 9484.6  | 9690.2  | 9993.7  | 10293.8 | 9724.0  | 8746.2  | 8051.6  | 7930.2  | 8267.4  | 8351.7  |
| 50°   | 10290.4 | 10246.6 | 10293.8 | 10681.5 | 11258.1 | 10998.5 | 9906.0  | 9160.9  | 9039.5  | 9224.9  | 9369.9  |
| 52.5° | 10728.7 | 10782.7 | 10654.5 | 11167.0 | 12283.1 | 12505.6 | 11443.5 | 10486.0 | 10381.4 | 10472.5 | 10725.4 |
| 55°   | 10421.9 | 10533.2 | 10448.9 | 10934.4 | 12731.5 | 14343.2 | 13432.8 | 12020.1 | 11885.2 | 11851.5 | 12266.2 |
| 57.5° | 9117.1  | 9319.4  | 9336.2  | 10105.0 | 12576.4 | 15766.0 | 16231.3 | 13830.7 | 13628.4 | 13284.5 | 13712.7 |
| 60°   | 6999.6  | 7201.9  | 7357.0  | 8267.4  | 11248.0 | 16615.7 | 19474.9 | 16406.7 | 15739.1 | 14848.9 | 15105.2 |
| 62.5° | 4905.8  | 5044.1  | 5199.1  | 5758.8  | 8672.0  | 16116.7 | 22280.1 | 20034.6 | 18803.9 | 16497.7 | 16818.0 |
| 65°   | 3574.0  | 3681.9  | 3840.4  | 4170.8  | 5327.3  | 13335.0 | 23581.6 | 24343.6 | 23177.0 | 18594.9 | 18554.4 |
| 67.5° | 2690.6  | 2758.0  | 2967.1  | 3496.4  | 3692.0  | 8237.0  | 22232.9 | 28895.4 | 27951.3 | 20924.7 | 19950.3 |
| 70°   | 2036.5  | 2093.8  | 2289.4  | 3014.3  | 3449.2  | 4416.9  | 17539.5 | 29910.3 | 30180.0 | 23537.8 | 20887.6 |
| 72.5° | 1402.6  | 1466.7  | 1685.8  | 2511.9  | 3284.0  | 3503.2  | 11008.6 | 27172.5 | 28194.1 | 24613.3 | 19882.9 |
| 75°   | 859.8   | 903.6   | 1031.7  | 1905.0  | 3260.4  | 3425.6  | 6058.9  | 22266.7 | 23349.0 | 22742.1 | 17394.6 |
| 77.5° | 606.9   | 603.5   | 627.1   | 1116.0  | 2825.5  | 3445.9  | 3735.8  | 16315.6 | 17367.6 | 16760.7 | 11804.3 |
| 80°   | 441.7   | 445.1   | 468.7   | 667.6   | 1918.5  | 3503.2  | 2943.5  | 10927.7 | 11241.2 | 8739.4  | 4656.3  |
| 82.5° | 266.4   | 279.9   | 337.2   | 451.8   | 1153.1  | 3162.6  | 2721.0  | 6072.4  | 5681.3  | 2805.2  | 1281.2  |
| 85°   | 141.6   | 141.6   | 198.9   | 286.6   | 613.6   | 2360.2  | 2619.8  | 2889.5  | 2420.9  | 869.9   | 475.4   |
| 87.5° | 33.7    | 33.7    | 57.3    | 114.6   | 246.1   | 1129.5  | 1787.0  | 1149.7  | 920.5   | 293.3   | 195.6   |
| 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°    | 7050.2  | 7050.2  | 7050.2 | 7050.2 | 7050.2 | 7050.2 | 7050.2 | 7050.2 | 7050.2 | 7050.2 | 7050.2 |
| 2.5°  | 7127.8  | 7087.3  | 7137.9 | 7036.7 | 6955.8 | 6959.2 | 6834.4 | 6827.7 | 6810.8 | 6723.2 | 6753.5 |
| 5°    | 7208.7  | 7175.0  | 7117.6 | 7006.4 | 6827.7 | 6649.0 | 6541.1 | 6402.8 | 6345.5 | 6315.2 | 6328.7 |
| 7.5°  | 7286.2  | 7225.5  | 7060.3 | 6905.2 | 6628.7 | 6291.6 | 6096.0 | 5910.6 | 5674.6 | 5647.6 | 5600.4 |
| 10°   | 7306.5  | 7178.3  | 6965.9 | 6635.5 | 6268.0 | 5893.7 | 5448.7 | 5104.7 | 4922.7 | 4781.1 | 4727.1 |
| 12.5° | 7276.1  | 7222.2  | 6814.2 | 6389.4 | 5833.0 | 5246.4 | 4727.1 | 4241.6 | 3904.4 | 3729.1 | 3681.9 |
| 15°   | 7272.7  | 7178.3  | 6645.6 | 6015.1 | 5303.7 | 4538.3 | 3799.9 | 3216.6 | 2862.6 | 2717.6 | 2717.6 |
| 17.5° | 7276.1  | 7050.2  | 6446.7 | 5637.5 | 4679.9 | 3644.8 | 2832.2 | 2353.4 | 2157.9 | 2137.7 | 2154.5 |
| 20°   | 7208.7  | 6955.8  | 6237.6 | 5192.4 | 3897.7 | 2737.8 | 2056.7 | 1861.2 | 1861.2 | 1888.1 | 1898.3 |
| 22.5° | 7148.0  | 6814.2  | 5907.2 | 4642.8 | 3102.0 | 1982.6 | 1672.4 | 1615.0 | 1679.1 | 1726.3 | 1746.5 |
| 25°   | 7063.7  | 6696.2  | 5570.0 | 4073.0 | 2360.2 | 1598.2 | 1453.2 | 1466.7 | 1527.4 | 1611.7 | 1604.9 |
| 27.5° | 6942.3  | 6490.5  | 5168.8 | 3412.2 | 1756.7 | 1379.0 | 1341.9 | 1348.7 | 1412.7 | 1449.8 | 1443.1 |
| 30°   | 6804.1  | 6281.5  | 4797.9 | 2754.7 | 1392.5 | 1264.4 | 1261.0 | 1277.9 | 1288.0 | 1308.2 | 1304.8 |
| 32.5° | 6628.7  | 6005.0  | 4403.4 | 2141.0 | 1254.3 | 1200.3 | 1186.8 | 1176.7 | 1186.8 | 1183.5 | 1173.3 |
| 35°   | 6504.0  | 5856.6  | 4002.2 | 1631.9 | 1176.7 | 1143.0 | 1132.9 | 1116.0 | 1102.5 | 1082.3 | 1078.9 |
| 37.5° | 6470.3  | 5708.3  | 3580.7 | 1331.8 | 1116.0 | 1099.2 | 1065.5 | 1035.1 | 1018.3 | 1008.1 | 1001.4 |
| 40°   | 6450.0  | 5610.5  | 3169.4 | 1170.0 | 1065.5 | 1048.6 | 1008.1 | 967.7  | 950.8  | 940.7  | 944.1  |
| 42.5° | 6520.9  | 5556.5  | 2751.3 | 1089.1 | 1021.6 | 991.3  | 947.4  | 900.2  | 896.9  | 890.1  | 900.2  |
| 45°   | 6770.4  | 5624.0  | 2363.6 | 1031.7 | 977.8  | 927.2  | 869.9  | 846.3  | 842.9  | 836.2  | 842.9  |
| 47.5° | 7336.8  | 5792.6  | 2033.1 | 994.6  | 930.6  | 886.8  | 826.1  | 792.3  | 789.0  | 785.6  | 785.6  |
| 50°   | 8119.0  | 6311.8  | 1756.7 | 950.8  | 900.2  | 839.6  | 782.2  | 745.1  | 738.4  | 724.9  | 724.9  |
| 52.5° | 9346.3  | 7185.1  | 1591.4 | 927.2  | 846.3  | 795.7  | 735.0  | 694.6  | 677.7  | 664.2  | 664.2  |
| 55°   | 10728.7 | 8267.4  | 1561.1 | 886.8  | 789.0  | 741.8  | 687.8  | 647.4  | 630.5  | 613.6  | 606.9  |
| 57.5° | 12303.3 | 9700.4  | 1776.9 | 859.8  | 748.5  | 687.8  | 627.1  | 590.0  | 576.6  | 559.7  | 553.0  |
| 60°   | 13770.0 | 11130.0 | 2447.8 | 819.3  | 711.4  | 637.2  | 576.6  | 539.5  | 522.6  | 505.8  | 505.8  |
| 62.5° | 15465.9 | 12900.1 | 3584.1 | 819.3  | 677.7  | 583.3  | 522.6  | 495.6  | 485.5  | 468.7  | 465.3  |
| 65°   | 17472.1 | 14730.9 | 4413.5 | 869.9  | 667.6  | 536.1  | 472.0  | 445.1  | 434.9  | 424.8  | 421.5  |
| 67.5° | 18999.5 | 15782.9 | 3796.5 | 1004.8 | 711.4  | 495.6  | 421.5  | 404.6  | 397.9  | 387.7  | 381.0  |
| 70°   | 19161.3 | 15142.3 | 2289.4 | 1085.7 | 755.3  | 455.2  | 377.6  | 360.8  | 360.8  | 350.7  | 343.9  |
| 72.5° | 17708.1 | 13436.2 | 1540.9 | 967.7  | 684.5  | 408.0  | 333.8  | 320.3  | 313.6  | 306.8  | 303.5  |
| 75°   | 14818.6 | 11396.3 | 1217.2 | 772.1  | 526.0  | 337.2  | 290.0  | 276.5  | 266.4  | 263.0  | 256.2  |
| 77.5° | 9953.2  | 7407.6  | 900.2  | 603.5  | 387.7  | 273.1  | 242.8  | 229.3  | 219.2  | 215.8  | 205.7  |
| 80°   | 3823.5  | 2822.1  | 579.9  | 438.3  | 273.1  | 215.8  | 192.2  | 178.7  | 172.0  | 161.8  | 155.1  |
| 82.5° | 1126.1  | 913.7   | 323.7  | 269.7  | 175.3  | 148.4  | 138.2  | 128.1  | 118.0  | 107.9  | 104.5  |
| 85°   | 465.3   | 418.1   | 198.9  | 141.6  | 107.9  | 87.7   | 80.9   | 70.8   | 60.7   | 53.9   | 47.2   |
| 87.5° | 215.8   | 178.7   | 91.0   | 53.9   | 37.1   | 20.2   | 10.1   | 3.4    | 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)