

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: P480266

Luminaire Tested: **IFLD-S-SA3E-830-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480266  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-830-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

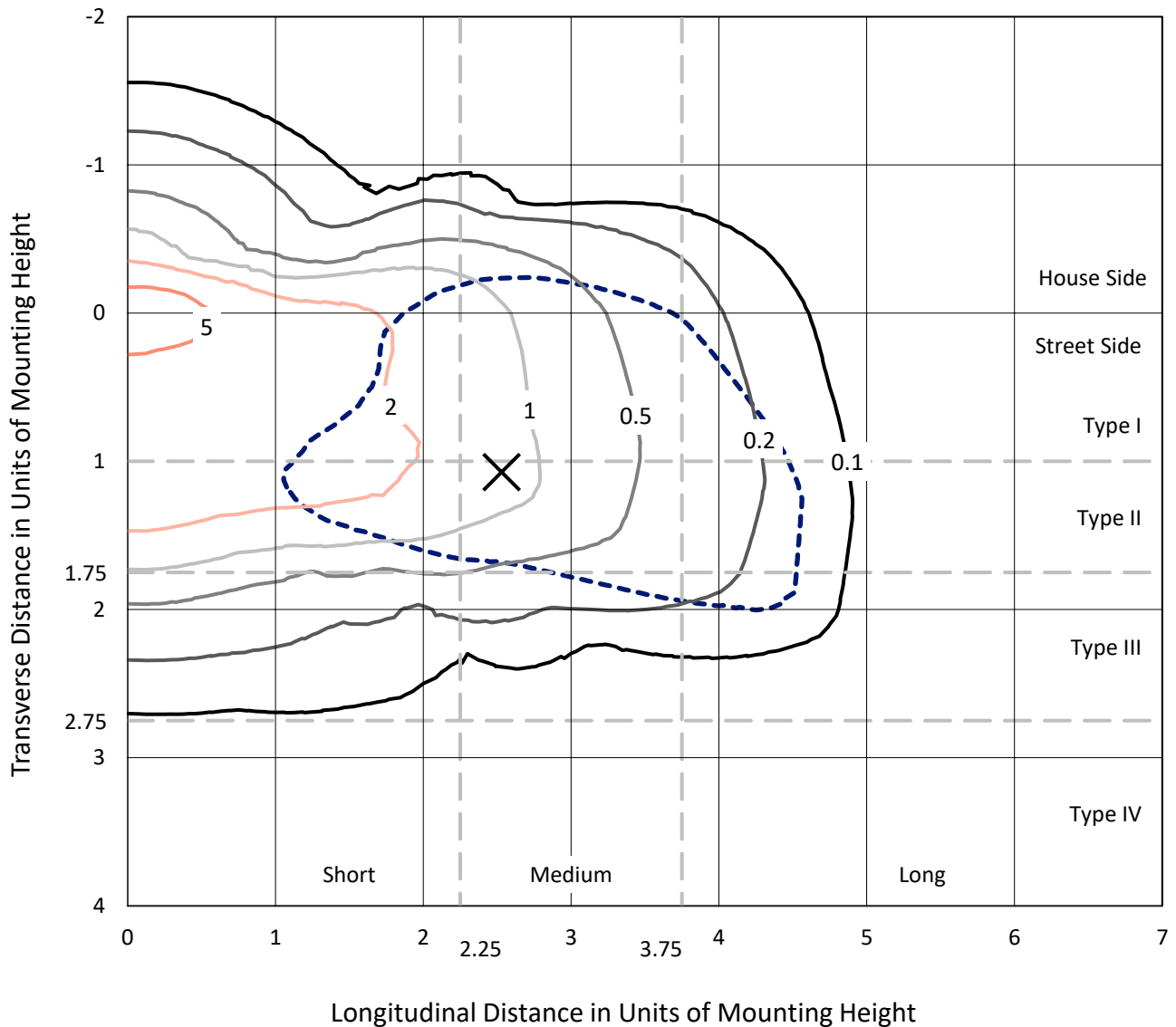
Lumens per Lamp: N/A  
Luminaire Lumens: 21370 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1  
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

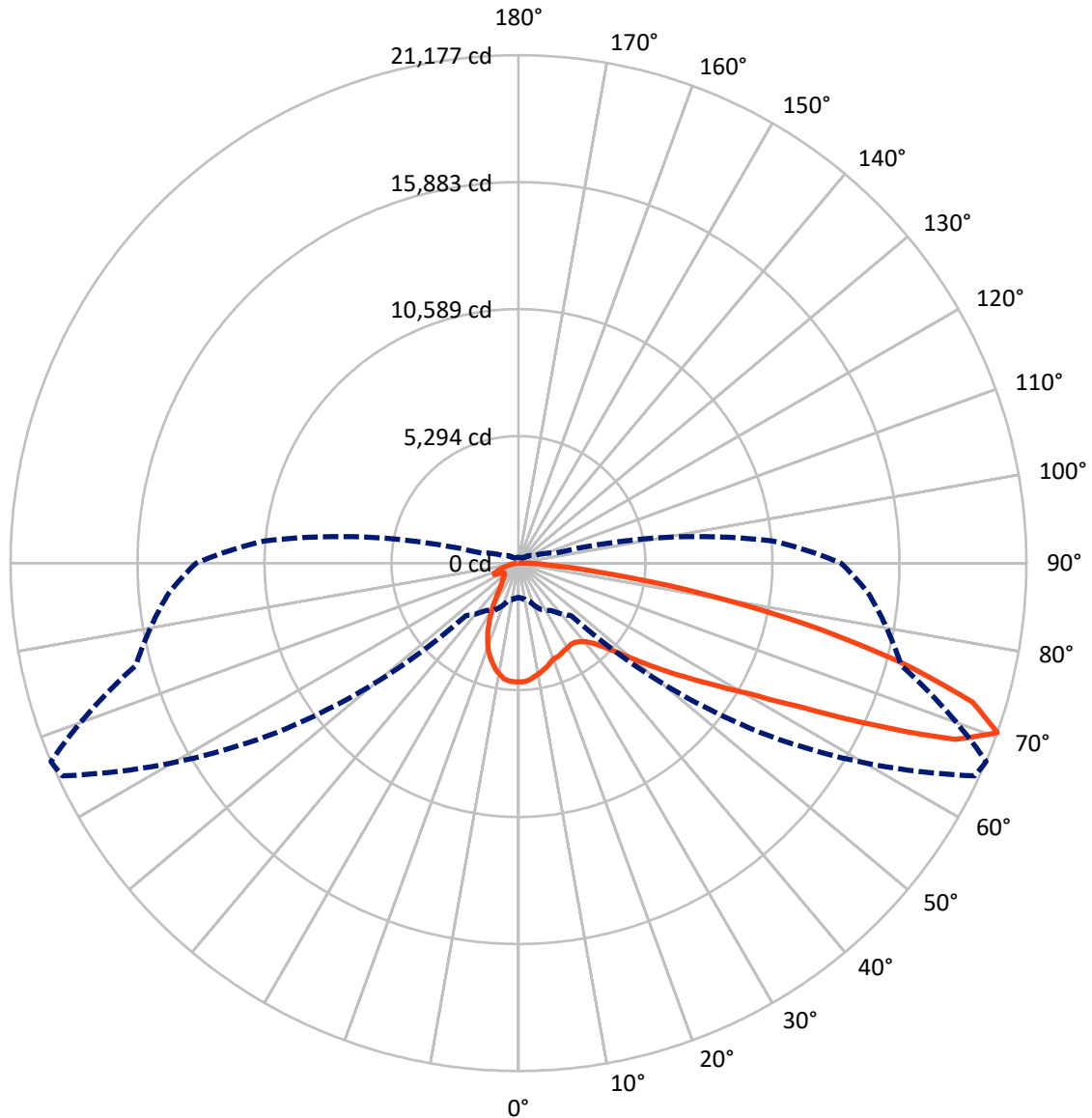
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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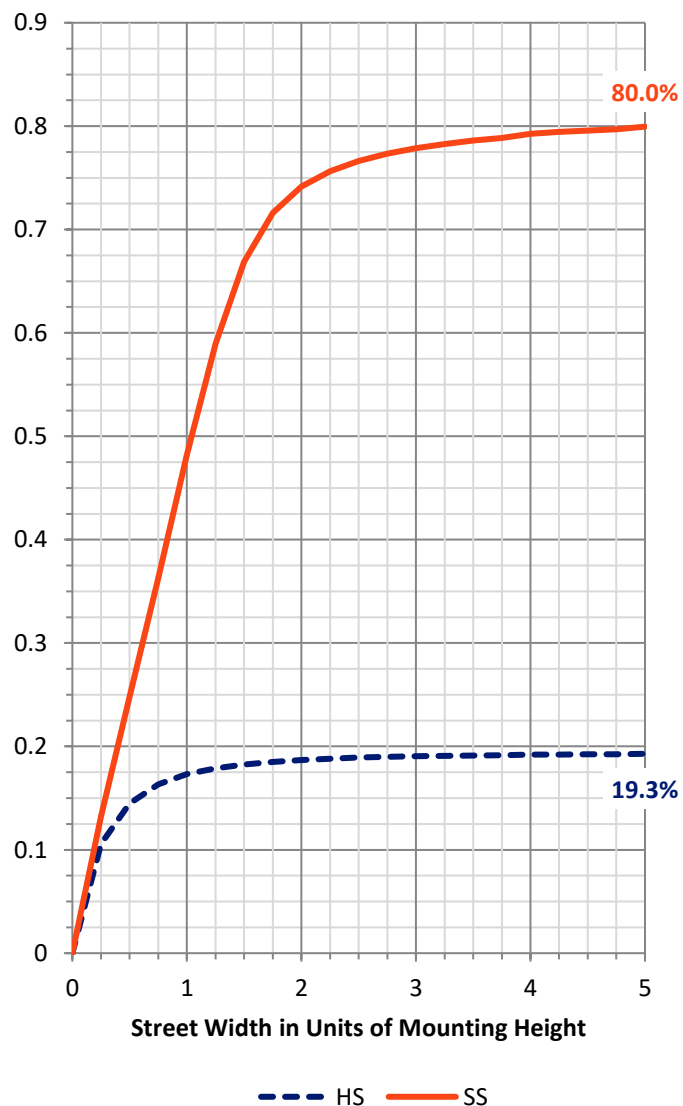
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4162.0   | 0.0    | 4162.0  |
|                    | % Fixture | 19.5     | 0.0    | 19.5    |
| <b>Street Side</b> | Lumens    | 17208.0  | 0.0    | 17208.0 |
|                    | % Fixture | 80.5     | 0.0    | 80.5    |
| <b>Total</b>       | Lumens    | 21370.0  | 0.0    | 21370.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 431.6   | 2.0       |
| 10°-20°   | 1033.8  | 4.8       |
| 20°-30°   | 1396.0  | 6.5       |
| 30°-40°   | 1868.0  | 8.7       |
| 40°-50°   | 2746.9  | 12.9      |
| 50°-60°   | 4281.7  | 20.0      |
| 60°-70°   | 5274.3  | 24.7      |
| 70°-80°   | 3726.8  | 17.4      |
| 80°-90°   | 610.8   | 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°    | 21370.0 | 100.0     |
| 0°-180°   | 21370.0 | 100.0     |

**Coefficient of Utilization**



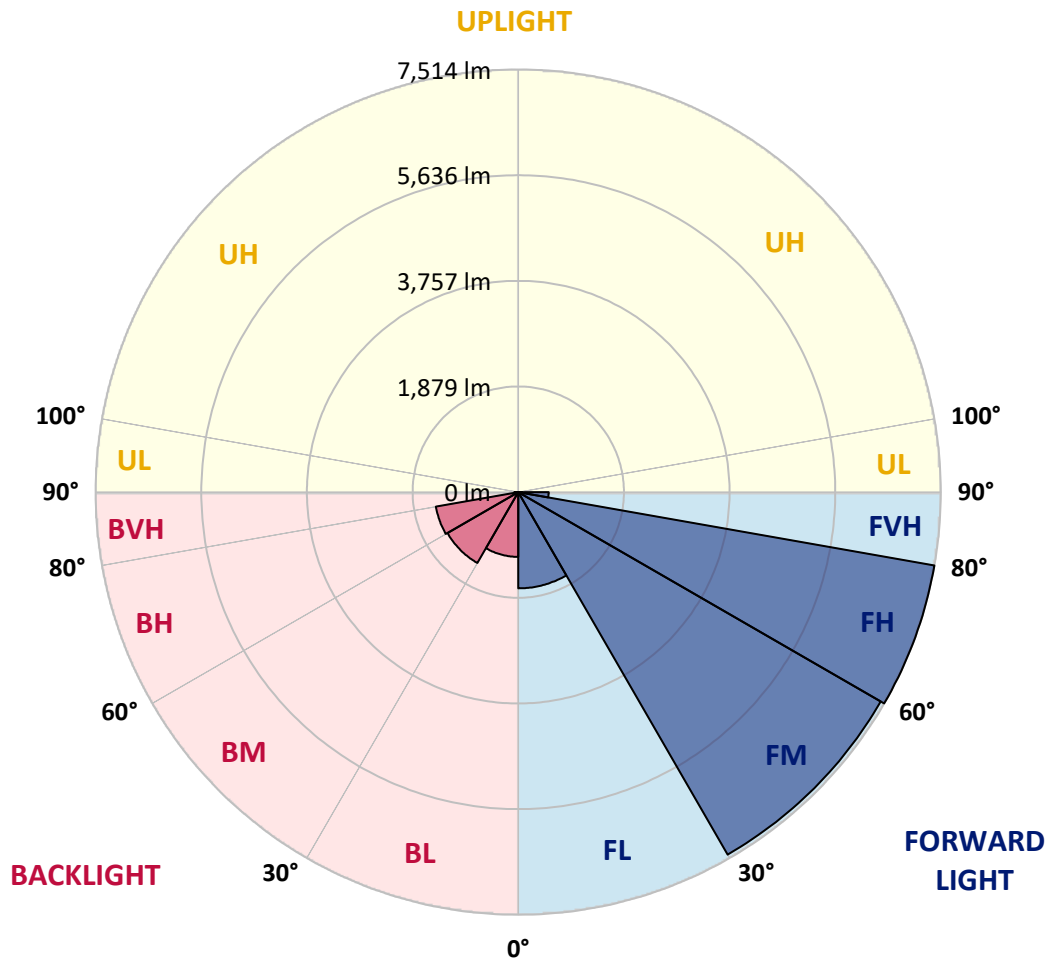
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1710.5 | 8.0       |                         |      |          |
| FM (30°-60°)   | 7442.7 | 34.8      |                         |      |          |
| FH (60°-80°)   | 7514.4 | 35.2      |                         |      | G4/12000 |
| FVH (80°-90°)  | 540.4  | 2.5       |                         |      | G4/750   |
| BL (0°-30°)    | 1150.9 | 5.4       | B3/2500                 |      |          |
| BM (30°-60°)   | 1453.9 | 6.8       | B2/2500                 |      |          |
| BH (60°-80°)   | 1486.7 | 7.0       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 70.5   | 0.3       |                         |      | G1/100   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 4947.1 | 4947.1 | 4947.1 | 4947.1 | 4947.1 | 4947.1  | 4947.1  | 4947.1  | 4947.1  | 4947.1  | 4947.1  |
| 2.5°  | 4606.4 | 4658.4 | 4677.4 | 4705.8 | 4779.1 | 4833.5  | 4866.6  | 4904.5  | 4949.4  | 4987.3  | 5011.0  |
| 5°    | 4284.6 | 4313.0 | 4358.0 | 4388.7 | 4481.0 | 4627.7  | 4727.1  | 4887.9  | 4883.2  | 4942.3  | 5032.3  |
| 7.5°  | 3972.3 | 4000.7 | 4022.0 | 4083.5 | 4216.0 | 4348.5  | 4530.7  | 4790.9  | 4772.0  | 4909.2  | 5048.8  |
| 10°   | 3778.3 | 3757.0 | 3764.1 | 3868.2 | 3972.3 | 4121.4  | 4350.9  | 4615.9  | 4684.5  | 4897.4  | 5096.1  |
| 12.5° | 3596.2 | 3572.5 | 3629.3 | 3695.5 | 3823.3 | 3958.1  | 4232.6  | 4471.5  | 4575.6  | 4854.8  | 5117.4  |
| 15°   | 3482.6 | 3466.0 | 3537.0 | 3565.4 | 3716.8 | 3877.7  | 4071.7  | 4362.7  | 4476.3  | 4802.8  | 5084.3  |
| 17.5° | 3418.7 | 3432.9 | 3458.9 | 3520.4 | 3617.4 | 3754.7  | 3967.6  | 4289.4  | 4339.0  | 4738.9  | 5077.2  |
| 20°   | 3430.5 | 3447.1 | 3449.5 | 3475.5 | 3541.7 | 3648.2  | 3865.9  | 4211.3  | 4244.4  | 4727.1  | 5096.1  |
| 22.5° | 3525.2 | 3501.5 | 3511.0 | 3494.4 | 3513.3 | 3596.2  | 3787.8  | 4107.2  | 4234.9  | 4627.7  | 5055.9  |
| 25°   | 3667.1 | 3634.0 | 3629.3 | 3572.5 | 3537.0 | 3560.7  | 3773.6  | 4081.2  | 4164.0  | 4596.9  | 5053.5  |
| 27.5° | 3917.9 | 3868.2 | 3868.2 | 3783.1 | 3638.7 | 3600.9  | 3733.4  | 4038.6  | 4111.9  | 4568.5  | 4999.1  |
| 30°   | 4159.2 | 4159.2 | 4161.6 | 4040.9 | 3880.1 | 3693.2  | 3749.9  | 4022.0  | 4069.3  | 4483.4  | 4925.8  |
| 32.5° | 4452.6 | 4445.5 | 4433.7 | 4374.5 | 4126.1 | 3846.9  | 3830.4  | 4000.7  | 4024.4  | 4455.0  | 4904.5  |
| 35°   | 4738.9 | 4720.0 | 4812.2 | 4760.2 | 4507.0 | 4147.4  | 3913.2  | 4010.2  | 4062.2  | 4412.4  | 4838.2  |
| 37.5° | 4954.2 | 4966.0 | 5157.6 | 5190.8 | 4973.1 | 4488.1  | 4147.4  | 4104.8  | 4154.5  | 4473.9  | 4838.2  |
| 40°   | 5233.4 | 5280.7 | 5460.5 | 5571.7 | 5439.2 | 4937.6  | 4518.9  | 4263.3  | 4298.8  | 4611.1  | 4942.3  |
| 42.5° | 5600.1 | 5640.3 | 5869.8 | 6014.1 | 5976.2 | 5510.2  | 4885.6  | 4594.6  | 4566.2  | 4840.6  | 5098.5  |
| 45°   | 6085.1 | 6092.2 | 6324.0 | 6522.8 | 6600.8 | 6108.7  | 5467.6  | 5013.3  | 4989.7  | 5235.7  | 5384.8  |
| 47.5° | 6662.3 | 6655.3 | 6799.6 | 7012.5 | 7223.1 | 6823.2  | 6137.1  | 5649.7  | 5564.6  | 5801.2  | 5860.3  |
| 50°   | 7220.7 | 7189.9 | 7223.1 | 7495.1 | 7899.7 | 7717.5  | 6951.0  | 6428.1  | 6343.0  | 6473.1  | 6574.8  |
| 52.5° | 7528.3 | 7566.1 | 7476.2 | 7835.8 | 8618.9 | 8775.1  | 8029.8  | 7357.9  | 7284.6  | 7348.5  | 7525.9  |
| 55°   | 7313.0 | 7391.0 | 7331.9 | 7672.6 | 8933.6 | 10064.5 | 9425.7  | 8434.4  | 8339.8  | 8316.1  | 8607.1  |
| 57.5° | 6397.4 | 6539.3 | 6551.2 | 7090.6 | 8824.8 | 11062.9 | 11389.4 | 9704.9  | 9562.9  | 9321.6  | 9622.1  |
| 60°   | 4911.6 | 5053.5 | 5162.4 | 5801.2 | 7892.6 | 11659.1 | 13665.4 | 11512.4 | 11044.0 | 10419.4 | 10599.2 |
| 62.5° | 3442.4 | 3539.4 | 3648.2 | 4040.9 | 6085.1 | 11309.0 | 15633.8 | 14058.1 | 13194.6 | 11576.3 | 11801.1 |
| 65°   | 2507.8 | 2583.6 | 2694.8 | 2926.6 | 3738.1 | 9357.1  | 16547.0 | 17081.7 | 16263.1 | 13047.9 | 13019.5 |
| 67.5° | 1888.0 | 1935.3 | 2082.0 | 2453.4 | 2590.7 | 5779.9  | 15600.7 | 20275.7 | 19613.2 | 14682.7 | 13999.0 |
| 70°   | 1429.0 | 1469.2 | 1606.4 | 2115.1 | 2420.3 | 3099.3  | 12307.4 | 20987.8 | 21177.1 | 16516.3 | 14656.7 |
| 72.5° | 984.2  | 1029.2 | 1182.9 | 1762.6 | 2304.4 | 2458.2  | 7724.6  | 19066.7 | 19783.6 | 17271.0 | 13951.7 |
| 75°   | 603.3  | 634.1  | 724.0  | 1336.7 | 2287.8 | 2403.7  | 4251.5  | 15624.3 | 16383.8 | 15957.9 | 12205.6 |
| 77.5° | 425.9  | 423.5  | 440.1  | 783.1  | 1982.6 | 2417.9  | 2621.4  | 11448.5 | 12186.7 | 11760.8 | 8283.0  |
| 80°   | 309.9  | 312.3  | 328.9  | 468.4  | 1346.2 | 2458.2  | 2065.4  | 7667.9  | 7887.9  | 6132.4  | 3267.3  |
| 82.5° | 186.9  | 196.4  | 236.6  | 317.0  | 809.1  | 2219.2  | 1909.3  | 4261.0  | 3986.5  | 1968.4  | 899.0   |
| 85°   | 99.4   | 99.4   | 139.6  | 201.1  | 430.6  | 1656.1  | 1838.3  | 2027.6  | 1698.7  | 610.4   | 333.6   |
| 87.5° | 23.7   | 23.7   | 40.2   | 80.4   | 172.7  | 792.6   | 1253.9  | 806.8   | 645.9   | 205.8   | 137.2   |
| 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°    | 4947.1  | 4947.1  | 4947.1 | 4947.1 | 4947.1 | 4947.1 | 4947.1 | 4947.1 | 4947.1 | 4947.1 | 4947.1 |
| 2.5°  | 5001.5  | 4973.1  | 5008.6 | 4937.6 | 4880.8 | 4883.2 | 4795.7 | 4790.9 | 4779.1 | 4717.6 | 4738.9 |
| 5°    | 5058.3  | 5034.6  | 4994.4 | 4916.3 | 4790.9 | 4665.5 | 4589.8 | 4492.8 | 4452.6 | 4431.3 | 4440.8 |
| 7.5°  | 5112.7  | 5070.1  | 4954.2 | 4845.3 | 4651.3 | 4414.8 | 4277.5 | 4147.4 | 3981.8 | 3962.9 | 3929.7 |
| 10°   | 5126.9  | 5037.0  | 4887.9 | 4656.1 | 4398.2 | 4135.6 | 3823.3 | 3582.0 | 3454.2 | 3354.8 | 3317.0 |
| 12.5° | 5105.6  | 5067.7  | 4781.5 | 4483.4 | 4093.0 | 3681.3 | 3317.0 | 2976.3 | 2739.7 | 2616.7 | 2583.6 |
| 15°   | 5103.2  | 5037.0  | 4663.2 | 4220.7 | 3721.5 | 3184.5 | 2666.4 | 2257.1 | 2008.6 | 1906.9 | 1906.9 |
| 17.5° | 5105.6  | 4947.1  | 4523.6 | 3955.8 | 3283.9 | 2557.5 | 1987.3 | 1651.4 | 1514.2 | 1500.0 | 1511.8 |
| 20°   | 5058.3  | 4880.8  | 4376.9 | 3643.5 | 2735.0 | 1921.1 | 1443.2 | 1306.0 | 1306.0 | 1324.9 | 1332.0 |
| 22.5° | 5015.7  | 4781.5  | 4145.0 | 3257.8 | 2176.6 | 1391.1 | 1173.5 | 1133.3 | 1178.2 | 1211.3 | 1225.5 |
| 25°   | 4956.5  | 4698.7  | 3908.5 | 2858.0 | 1656.1 | 1121.4 | 1019.7 | 1029.2 | 1071.7 | 1130.9 | 1126.2 |
| 27.5° | 4871.4  | 4554.3  | 3626.9 | 2394.3 | 1232.6 | 967.6  | 941.6  | 946.4  | 991.3  | 1017.3 | 1012.6 |
| 30°   | 4774.4  | 4407.7  | 3366.7 | 1932.9 | 977.1  | 887.2  | 884.8  | 896.7  | 903.8  | 918.0  | 915.6  |
| 32.5° | 4651.3  | 4213.7  | 3089.9 | 1502.3 | 880.1  | 842.3  | 832.8  | 825.7  | 832.8  | 830.4  | 823.3  |
| 35°   | 4563.8  | 4109.6  | 2808.3 | 1145.1 | 825.7  | 802.0  | 794.9  | 783.1  | 773.6  | 759.5  | 757.1  |
| 37.5° | 4540.1  | 4005.5  | 2512.6 | 934.5  | 783.1  | 771.3  | 747.6  | 726.3  | 714.5  | 707.4  | 702.7  |
| 40°   | 4525.9  | 3936.8  | 2223.9 | 821.0  | 747.6  | 735.8  | 707.4  | 679.0  | 667.2  | 660.1  | 662.4  |
| 42.5° | 4575.6  | 3899.0  | 1930.6 | 764.2  | 716.9  | 695.6  | 664.8  | 631.7  | 629.3  | 624.6  | 631.7  |
| 45°   | 4750.7  | 3946.3  | 1658.5 | 724.0  | 686.1  | 650.6  | 610.4  | 593.8  | 591.5  | 586.7  | 591.5  |
| 47.5° | 5148.2  | 4064.6  | 1426.6 | 697.9  | 653.0  | 622.2  | 579.6  | 556.0  | 553.6  | 551.3  | 551.3  |
| 50°   | 5697.1  | 4428.9  | 1232.6 | 667.2  | 631.7  | 589.1  | 548.9  | 522.9  | 518.1  | 508.7  | 508.7  |
| 52.5° | 6558.3  | 5041.7  | 1116.7 | 650.6  | 593.8  | 558.4  | 515.8  | 487.4  | 475.5  | 466.1  | 466.1  |
| 55°   | 7528.3  | 5801.2  | 1095.4 | 622.2  | 553.6  | 520.5  | 482.6  | 454.3  | 442.4  | 430.6  | 425.9  |
| 57.5° | 8633.1  | 6806.7  | 1246.8 | 603.3  | 525.2  | 482.6  | 440.1  | 414.0  | 404.6  | 392.7  | 388.0  |
| 60°   | 9662.3  | 7809.8  | 1717.6 | 574.9  | 499.2  | 447.2  | 404.6  | 378.5  | 366.7  | 354.9  | 354.9  |
| 62.5° | 10852.3 | 9051.9  | 2514.9 | 574.9  | 475.5  | 409.3  | 366.7  | 347.8  | 340.7  | 328.9  | 326.5  |
| 65°   | 12260.0 | 10336.6 | 3097.0 | 610.4  | 468.4  | 376.2  | 331.2  | 312.3  | 305.2  | 298.1  | 295.7  |
| 67.5° | 13331.8 | 11074.7 | 2664.0 | 705.0  | 499.2  | 347.8  | 295.7  | 283.9  | 279.2  | 272.1  | 267.3  |
| 70°   | 13445.4 | 10625.2 | 1606.4 | 761.8  | 530.0  | 319.4  | 265.0  | 253.2  | 253.2  | 246.1  | 241.3  |
| 72.5° | 12425.7 | 9428.1  | 1081.2 | 679.0  | 480.3  | 286.3  | 234.2  | 224.8  | 220.0  | 215.3  | 212.9  |
| 75°   | 10398.1 | 7996.7  | 854.1  | 541.8  | 369.1  | 236.6  | 203.5  | 194.0  | 186.9  | 184.5  | 179.8  |
| 77.5° | 6984.1  | 5197.9  | 631.7  | 423.5  | 272.1  | 191.6  | 170.3  | 160.9  | 153.8  | 151.4  | 144.3  |
| 80°   | 2682.9  | 1980.3  | 406.9  | 307.6  | 191.6  | 151.4  | 134.9  | 125.4  | 120.7  | 113.6  | 108.8  |
| 82.5° | 790.2   | 641.2   | 227.1  | 189.3  | 123.0  | 104.1  | 97.0   | 89.9   | 82.8   | 75.7   | 73.3   |
| 85°   | 326.5   | 293.4   | 139.6  | 99.4   | 75.7   | 61.5   | 56.8   | 49.7   | 42.6   | 37.9   | 33.1   |
| 87.5° | 151.4   | 125.4   | 63.9   | 37.9   | 26.0   | 14.2   | 7.1    | 2.4    | 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)