

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: P458128

Luminaire Tested: **GLAN-SA9C-730-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458128  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9C-730-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42615 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 481  
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



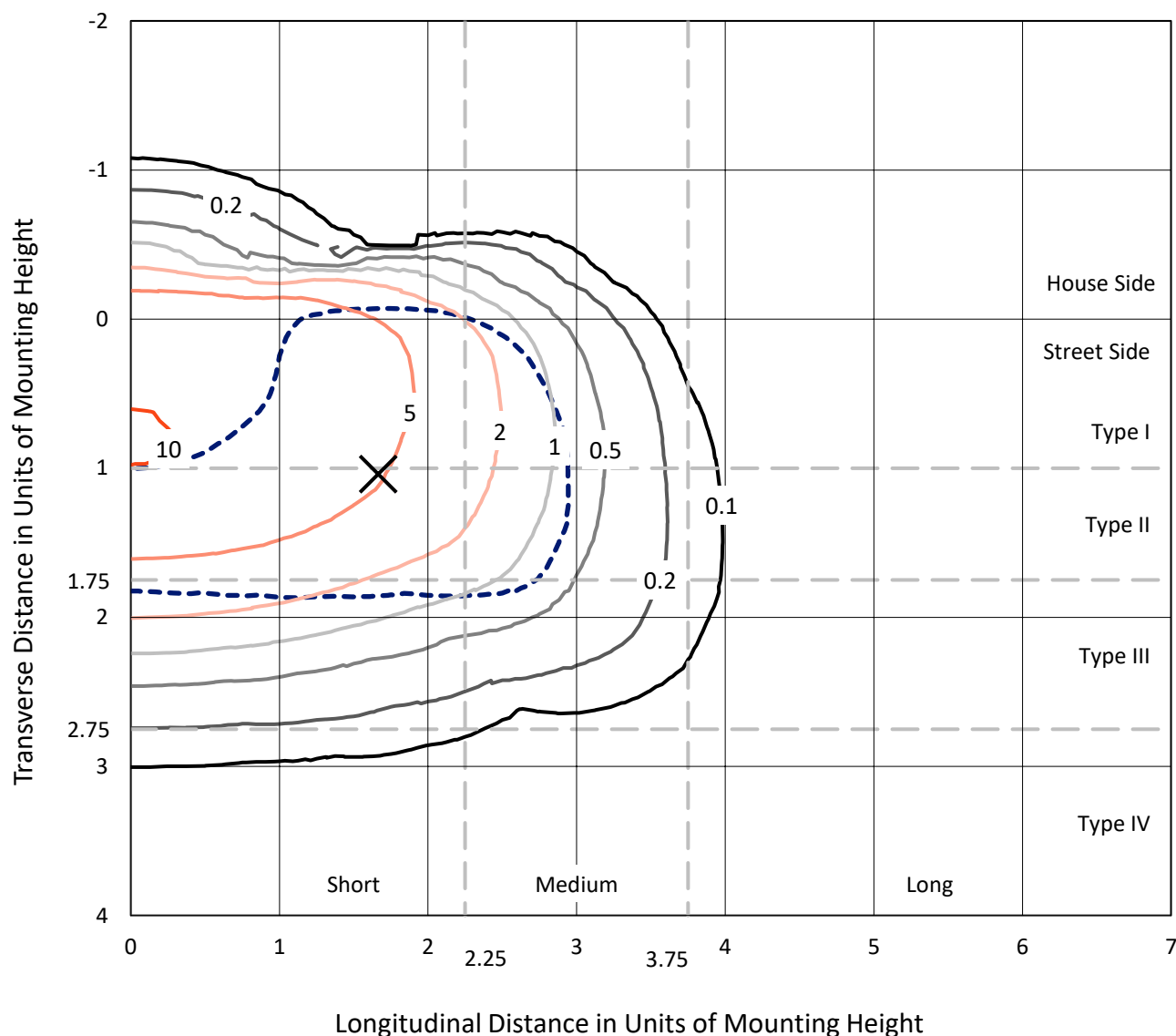
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

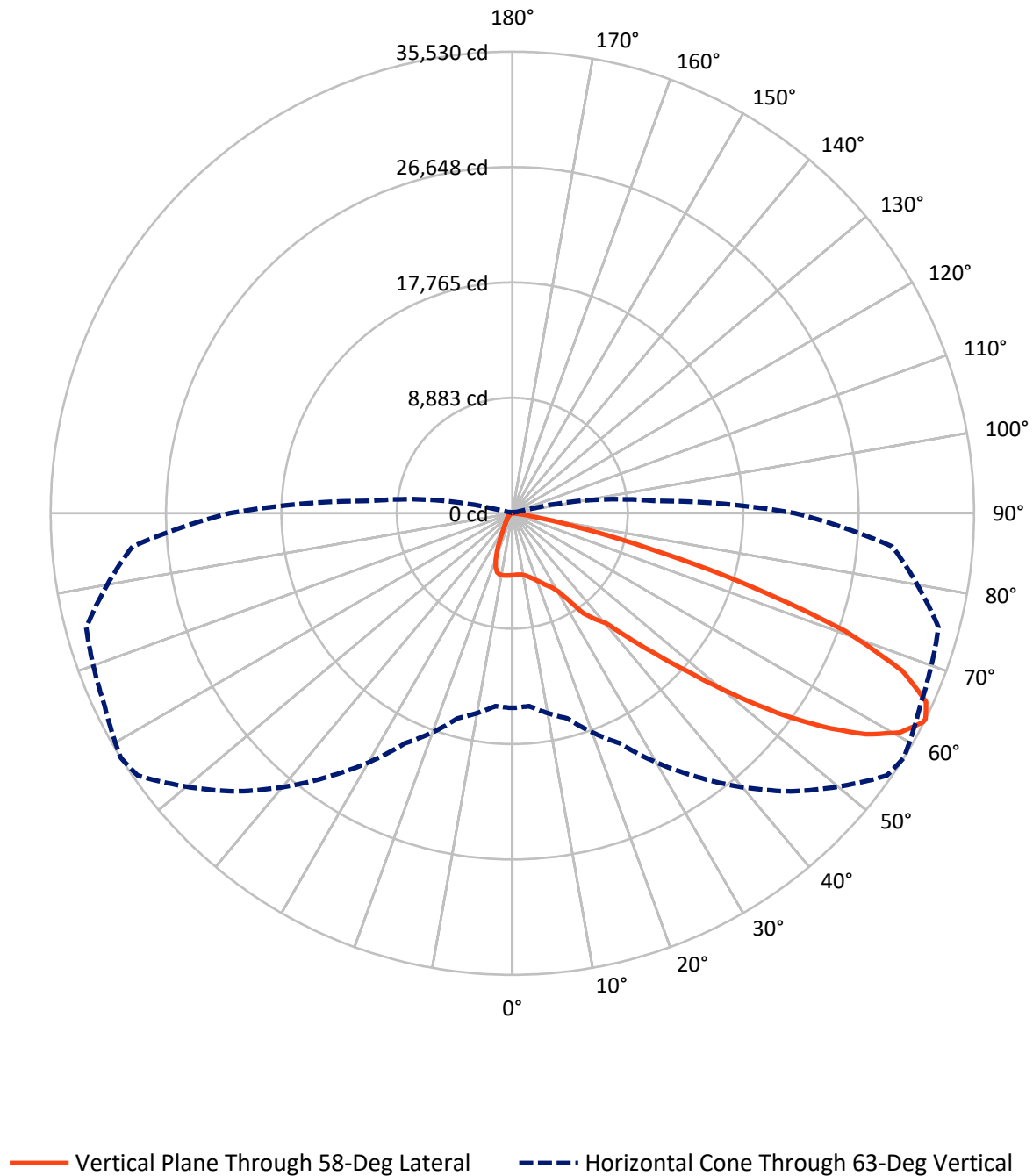


Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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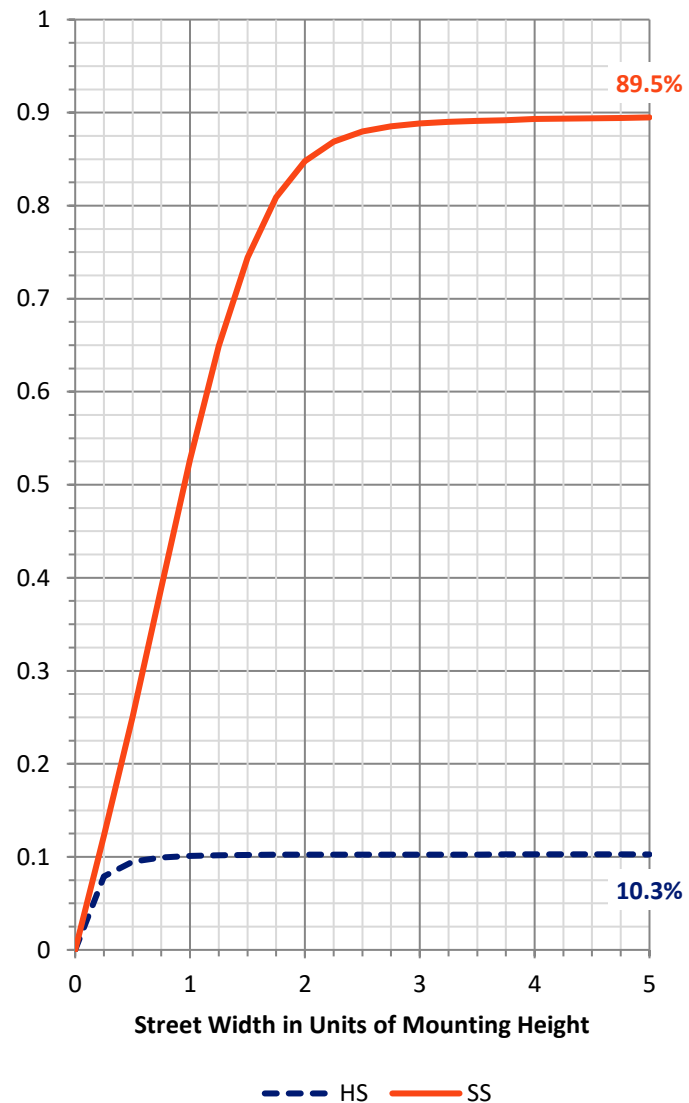
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4412.5   | 0.0    | 4412.5  |
|                    | % Fixture | 10.4     | 0.0    | 10.4    |
| <b>Street Side</b> | Lumens    | 38202.5  | 0.0    | 38202.5 |
|                    | % Fixture | 89.6     | 0.0    | 89.6    |
| <b>Total</b>       | Lumens    | 42615.0  | 0.0    | 42615.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 446.6   | 1.0       |
| 10°-20°   | 1216.4  | 2.9       |
| 20°-30°   | 2111.2  | 5.0       |
| 30°-40°   | 3879.5  | 9.1       |
| 40°-50°   | 7303.2  | 17.1      |
| 50°-60°   | 12491.5 | 29.3      |
| 60°-70°   | 11960.6 | 28.1      |
| 70°-80°   | 3050.0  | 7.2       |
| 80°-90°   | 155.9   | 0.4       |
| 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°    | 42615.0 | 100.0     |
| 0°-180°   | 42615.0 | 100.0     |

**Coefficient of Utilization**



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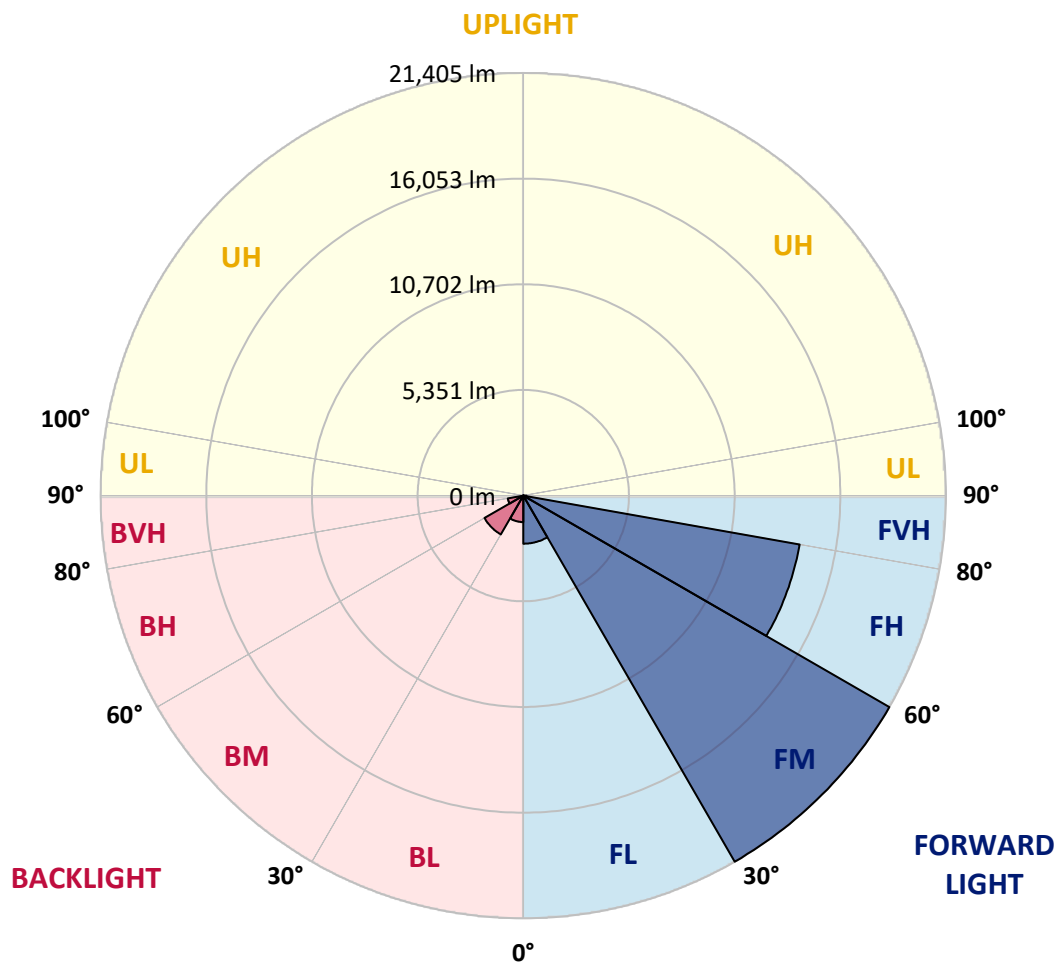
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2436.0  | 5.7       |                         |      |         |
| FM   | (30°-60°)   | 21404.7 | 50.2      |                         |      |         |
| FH   | (60°-80°)   | 14211.9 | 33.3      |                         |      | G5      |
| FVH  | (80°-90°)   | 149.9   | 0.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1338.2  | 3.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2269.5  | 5.3       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 798.7   | 1.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 6.0     | 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°    | 4770.9  | 4770.9  | 4770.9  | 4770.9  | 4770.9  | 4770.9  | 4770.9  | 4770.9  | 4770.9  | 4770.9  | 4770.9  |
| 2.5°  | 4652.2  | 4668.2  | 4684.3  | 4690.7  | 4713.2  | 4735.6  | 4751.7  | 4748.5  | 4774.1  | 4787.0  | 4787.0  |
| 5°    | 4466.1  | 4466.1  | 4507.8  | 4546.3  | 4610.5  | 4674.7  | 4735.6  | 4748.5  | 4796.6  | 4841.5  | 4857.5  |
| 7.5°  | 4308.9  | 4318.5  | 4350.6  | 4421.2  | 4507.8  | 4620.1  | 4742.0  | 4770.9  | 4854.3  | 4953.8  | 4995.5  |
| 10°   | 4235.1  | 4241.5  | 4283.2  | 4357.0  | 4466.1  | 4620.1  | 4790.2  | 4844.7  | 4973.0  | 5130.3  | 5188.0  |
| 12.5° | 4219.1  | 4228.7  | 4270.4  | 4353.8  | 4478.9  | 4665.0  | 4896.0  | 4953.8  | 5139.9  | 5342.0  | 5428.6  |
| 15°   | 4247.9  | 4254.4  | 4296.1  | 4385.9  | 4523.9  | 4745.2  | 5037.2  | 5117.4  | 5338.8  | 5573.0  | 5685.3  |
| 17.5° | 4350.6  | 4344.2  | 4373.1  | 4446.9  | 4600.9  | 4844.7  | 5207.3  | 5303.5  | 5563.4  | 5884.2  | 5958.0  |
| 20°   | 4787.0  | 4745.2  | 4719.6  | 4655.4  | 4716.4  | 4985.9  | 5412.6  | 5553.8  | 5874.6  | 6201.9  | 6253.2  |
| 22.5° | 5727.0  | 5634.0  | 5451.1  | 5200.8  | 5008.3  | 5178.4  | 5659.6  | 5823.3  | 6237.2  | 6558.0  | 6558.0  |
| 25°   | 6923.8  | 6805.0  | 6622.2  | 6076.7  | 5605.1  | 5496.0  | 5938.8  | 6144.1  | 6631.8  | 6955.8  | 6850.0  |
| 27.5° | 8422.1  | 8329.0  | 7972.9  | 7337.6  | 6615.8  | 6051.1  | 6262.8  | 6452.1  | 6981.5  | 7372.9  | 7151.6  |
| 30°   | 9641.3  | 9596.4  | 9304.4  | 8736.5  | 7940.8  | 7116.3  | 6866.0  | 6991.1  | 7446.7  | 7899.1  | 7671.3  |
| 32.5° | 10671.2 | 10671.2 | 10372.8 | 9843.4  | 9099.1  | 8367.5  | 7889.5  | 7979.3  | 8415.7  | 8938.6  | 8515.1  |
| 35°   | 11803.8 | 11765.3 | 11524.6 | 11020.9 | 10186.7 | 9541.8  | 9346.1  | 9468.0  | 9862.7  | 10250.9 | 9208.2  |
| 37.5° | 12994.1 | 12981.2 | 12731.0 | 12243.3 | 11563.1 | 10751.4 | 10292.6 | 10324.7 | 10526.8 | 10764.2 | 10019.9 |
| 40°   | 14287.1 | 14306.3 | 13979.1 | 13677.5 | 13035.8 | 12204.8 | 11325.7 | 11123.6 | 11312.9 | 11983.4 | 11518.2 |
| 42.5° | 15814.3 | 15769.4 | 15628.2 | 15217.5 | 14701.0 | 14203.7 | 13148.1 | 13074.3 | 13241.1 | 13959.8 | 13456.1 |
| 45°   | 17588.5 | 17652.7 | 17408.9 | 17181.1 | 16834.6 | 16420.7 | 15538.4 | 15410.0 | 15592.9 | 16709.4 | 15994.0 |
| 47.5° | 19366.0 | 19305.0 | 19462.2 | 19420.5 | 19606.6 | 19298.6 | 18519.0 | 18255.9 | 18695.4 | 19754.2 | 18701.9 |
| 50°   | 20719.9 | 20787.3 | 21114.6 | 21592.6 | 22391.5 | 22564.8 | 21817.2 | 21727.4 | 21923.1 | 22603.3 | 21124.2 |
| 52.5° | 21599.1 | 21823.6 | 22337.0 | 23565.8 | 25006.4 | 26126.1 | 25558.2 | 25510.1 | 25429.9 | 25612.8 | 23440.7 |
| 55°   | 22173.4 | 22401.2 | 23071.7 | 24881.3 | 27361.4 | 29180.5 | 29209.4 | 29004.1 | 28474.7 | 28343.1 | 25606.4 |
| 57.5° | 21820.4 | 21865.4 | 22821.5 | 25240.6 | 28667.2 | 31359.1 | 32302.3 | 32097.0 | 31118.4 | 30621.1 | 27518.6 |
| 60°   | 19613.0 | 19706.1 | 21037.6 | 23880.2 | 28099.3 | 32071.3 | 34352.5 | 34259.5 | 33187.9 | 32626.4 | 29007.3 |
| 62.5° | 15702.0 | 15971.5 | 17341.5 | 20511.4 | 25458.8 | 30871.4 | 35183.5 | 35446.6 | 34612.4 | 33839.2 | 29475.7 |
| 63°   | 14983.3 | 14896.7 | 16343.7 | 19529.6 | 24759.3 | 30277.8 | 35196.3 | 35530.0 | 34676.6 | 33954.7 | 29347.4 |
| 65°   | 11091.5 | 11351.4 | 12291.4 | 15400.4 | 20604.4 | 27515.4 | 34403.8 | 34994.2 | 34439.1 | 33444.5 | 27926.0 |
| 67.5° | 6227.5  | 6214.7  | 7254.2  | 10077.6 | 14421.8 | 21583.0 | 31108.8 | 32356.9 | 32241.4 | 30011.5 | 23148.7 |
| 70°   | 3048.0  | 3096.1  | 3522.8  | 5223.3  | 8364.3  | 14890.3 | 25850.2 | 27197.7 | 27239.4 | 23572.2 | 16006.8 |
| 72.5° | 1379.6  | 1402.1  | 1706.9  | 2544.3  | 4299.3  | 7928.0  | 17813.1 | 19099.7 | 18862.3 | 15021.8 | 8839.2  |
| 75°   | 728.3   | 776.4   | 940.1   | 1280.2  | 2072.6  | 3269.4  | 9689.4  | 10934.3 | 10437.0 | 6862.8  | 3253.3  |
| 77.5° | 539.0   | 555.1   | 638.5   | 814.9   | 1110.1  | 1273.7  | 4180.6  | 4973.0  | 4658.6  | 2483.3  | 1078.0  |
| 80°   | 394.6   | 407.5   | 474.8   | 577.5   | 699.4   | 648.1   | 1575.3  | 1806.3  | 1620.2  | 843.8   | 330.5   |
| 82.5° | 240.6   | 243.8   | 346.5   | 429.9   | 439.6   | 362.6   | 519.8   | 558.3   | 583.9   | 474.8   | 179.7   |
| 85°   | 86.6    | 109.1   | 234.2   | 311.2   | 259.9   | 182.9   | 218.2   | 240.6   | 263.1   | 301.6   | 105.9   |
| 87.5° | 9.6     | 12.8    | 112.3   | 150.8   | 73.8    | 67.4    | 80.2    | 89.8    | 96.3    | 112.3   | 51.3    |
| 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°    | 4770.9  | 4770.9  | 4770.9 | 4770.9 | 4770.9 | 4770.9 | 4770.9 | 4770.9 | 4770.9 | 4770.9 | 4770.9 |
| 2.5°  | 4799.8  | 4812.6  | 4803.0 | 4787.0 | 4783.7 | 4774.1 | 4754.9 | 4754.9 | 4754.9 | 4761.3 | 4754.9 |
| 5°    | 4870.4  | 4880.0  | 4857.5 | 4825.5 | 4790.2 | 4745.2 | 4697.1 | 4668.2 | 4665.0 | 4658.6 | 4642.6 |
| 7.5°  | 5005.1  | 5018.0  | 4966.6 | 4889.6 | 4793.4 | 4684.3 | 4581.6 | 4485.4 | 4440.4 | 4405.2 | 4405.2 |
| 10°   | 5200.8  | 5213.7  | 5111.0 | 4973.0 | 4780.5 | 4559.2 | 4315.3 | 4093.9 | 3920.7 | 3840.5 | 3821.2 |
| 12.5° | 5435.1  | 5441.5  | 5271.4 | 5030.8 | 4713.2 | 4286.4 | 3766.7 | 3282.2 | 2945.3 | 2791.3 | 2775.3 |
| 15°   | 5691.7  | 5646.8  | 5422.2 | 5053.3 | 4520.7 | 3725.0 | 2826.6 | 2233.1 | 1883.3 | 1780.7 | 1819.2 |
| 17.5° | 5951.6  | 5868.2  | 5537.7 | 5018.0 | 4087.5 | 2826.6 | 1899.4 | 1524.0 | 1414.9 | 1386.0 | 1386.0 |
| 20°   | 6195.5  | 6079.9  | 5621.1 | 4864.0 | 3336.8 | 1947.5 | 1408.5 | 1318.7 | 1299.4 | 1280.2 | 1283.4 |
| 22.5° | 6439.3  | 6262.8  | 5694.9 | 4520.7 | 2486.5 | 1392.5 | 1260.9 | 1232.0 | 1206.4 | 1180.7 | 1177.5 |
| 25°   | 6676.7  | 6432.9  | 5723.8 | 3885.4 | 1694.0 | 1196.7 | 1151.8 | 1113.3 | 1062.0 | 1033.1 | 1026.7 |
| 27.5° | 6923.8  | 6638.2  | 5704.6 | 3083.3 | 1235.2 | 1071.6 | 1026.7 | 972.1  | 911.2  | 859.9  | 859.9  |
| 30°   | 7398.6  | 7029.6  | 5637.2 | 2217.0 | 1039.5 | 943.3  | 885.5  | 798.9  | 731.5  | 680.2  | 677.0  |
| 32.5° | 8046.7  | 7539.8  | 5406.2 | 1559.3 | 924.0  | 831.0  | 744.4  | 648.1  | 577.5  | 539.0  | 539.0  |
| 35°   | 8624.2  | 8053.1  | 4973.0 | 1148.6 | 831.0  | 721.9  | 616.0  | 523.0  | 468.4  | 442.8  | 433.1  |
| 37.5° | 9503.3  | 8803.9  | 4376.3 | 933.6  | 741.1  | 625.6  | 516.6  | 429.9  | 385.0  | 365.8  | 365.8  |
| 40°   | 10822.0 | 9721.5  | 3644.8 | 818.1  | 654.5  | 532.6  | 429.9  | 362.6  | 327.3  | 304.8  | 304.8  |
| 42.5° | 12458.3 | 10844.4 | 2903.6 | 734.7  | 574.3  | 458.8  | 359.3  | 308.0  | 275.9  | 259.9  | 256.7  |
| 45°   | 14518.1 | 12028.4 | 2236.3 | 657.7  | 510.1  | 391.4  | 304.8  | 259.9  | 227.8  | 218.2  | 221.4  |
| 47.5° | 16667.7 | 13071.1 | 1732.5 | 590.3  | 442.8  | 330.5  | 259.9  | 224.6  | 202.1  | 189.3  | 189.3  |
| 50°   | 18502.9 | 13789.8 | 1315.5 | 513.3  | 391.4  | 279.1  | 227.8  | 202.1  | 182.9  | 176.5  | 173.3  |
| 52.5° | 20036.6 | 13998.3 | 1007.4 | 446.0  | 343.3  | 240.6  | 202.1  | 182.9  | 166.8  | 157.2  | 157.2  |
| 55°   | 21342.4 | 13815.4 | 789.3  | 375.4  | 288.8  | 208.5  | 179.7  | 163.6  | 144.4  | 134.8  | 131.5  |
| 57.5° | 22106.0 | 13228.3 | 603.2  | 311.2  | 234.2  | 173.3  | 157.2  | 138.0  | 115.5  | 99.5   | 99.5   |
| 60°   | 22491.0 | 12374.9 | 462.0  | 256.7  | 179.7  | 138.0  | 128.3  | 102.7  | 80.2   | 67.4   | 64.2   |
| 62.5° | 22029.0 | 11242.3 | 349.7  | 202.1  | 134.8  | 102.7  | 86.6   | 73.8   | 51.3   | 38.5   | 38.5   |
| 63°   | 21743.4 | 10915.0 | 336.9  | 192.5  | 125.1  | 96.3   | 80.2   | 67.4   | 44.9   | 35.3   | 32.1   |
| 65°   | 19821.6 | 9487.3  | 275.9  | 154.0  | 99.5   | 67.4   | 54.5   | 48.1   | 32.1   | 16.0   | 12.8   |
| 67.5° | 15740.5 | 7257.4  | 218.2  | 115.5  | 70.6   | 48.1   | 32.1   | 28.9   | 9.6    | 0.0    | 0.0    |
| 70°   | 10642.3 | 4687.5  | 170.0  | 83.4   | 48.1   | 28.9   | 16.0   | 12.8   | 3.2    | 0.0    | 0.0    |
| 72.5° | 5550.6  | 2403.1  | 131.5  | 61.0   | 28.9   | 19.3   | 9.6    | 3.2    | 0.0    | 0.0    | 0.0    |
| 75°   | 1963.6  | 818.1   | 96.3   | 38.5   | 19.3   | 9.6    | 3.2    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 593.6   | 304.8   | 61.0   | 28.9   | 12.8   | 6.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 208.5   | 112.3   | 35.3   | 19.3   | 9.6    | 3.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 102.7   | 54.5    | 22.5   | 16.0   | 9.6    | 3.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 57.8    | 35.3    | 19.3   | 16.0   | 9.6    | 6.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 41.7    | 25.7    | 19.3   | 16.0   | 12.8   | 6.4    | 3.2    | 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)