

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: P457691

Luminaire Tested: **GLAN-SA9A-740-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457691  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9A-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33192 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 274  
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

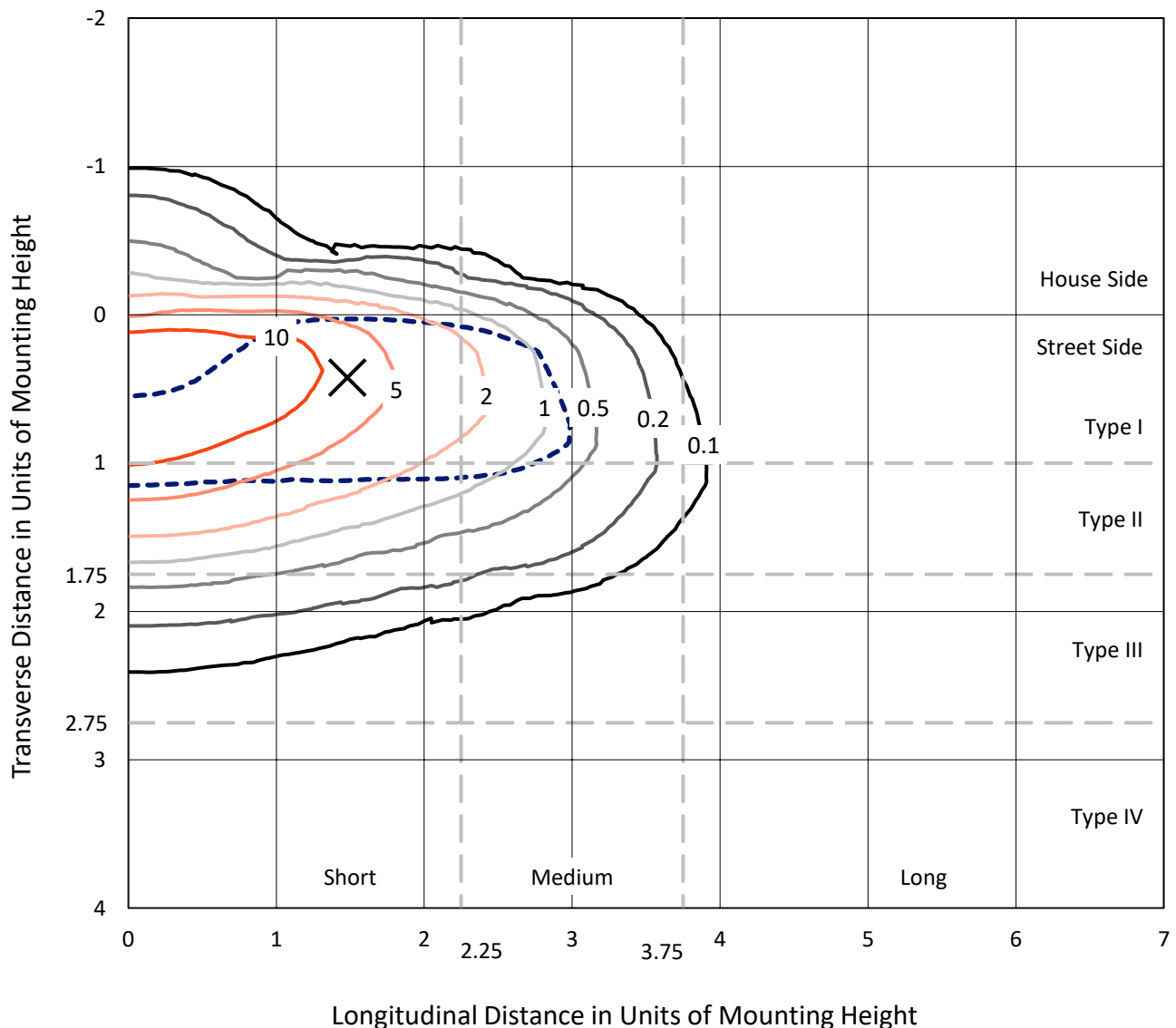


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

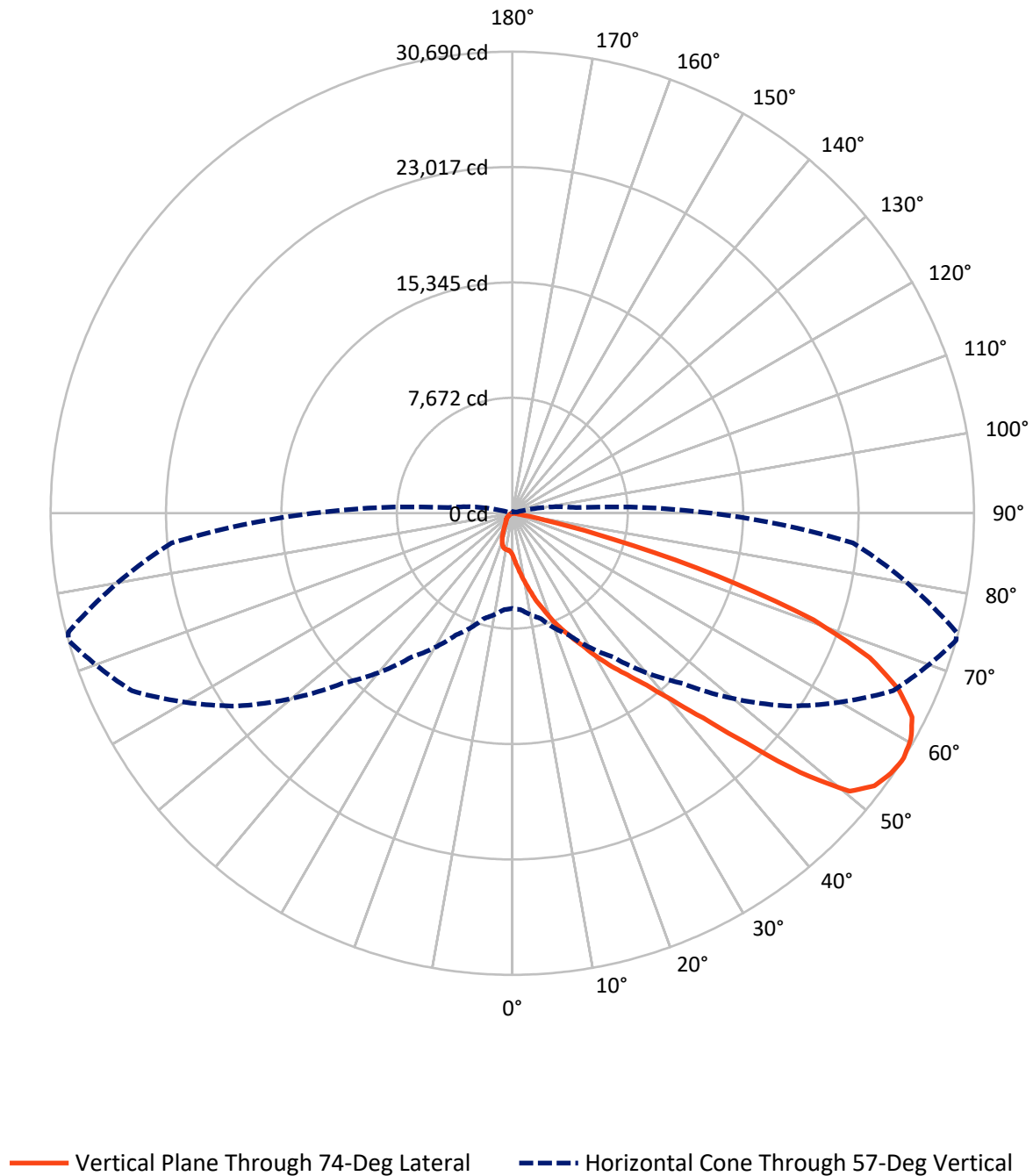


Based on 25 foot mounting height. Maximum calculated value = 16.8 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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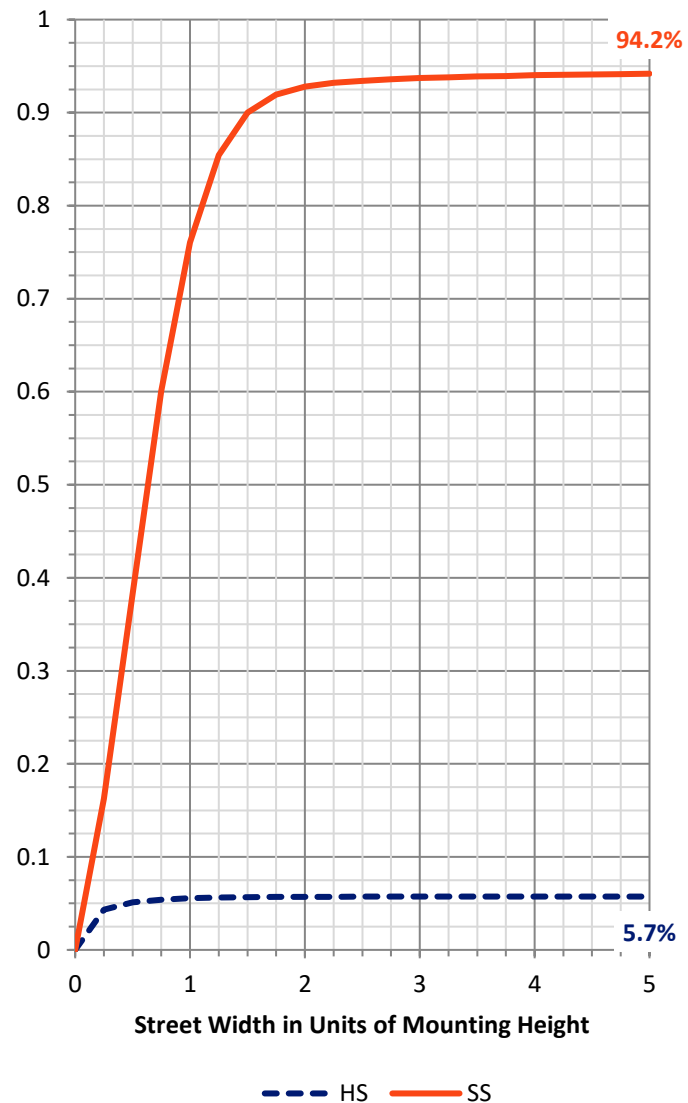
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1914.4   | 0.0    | 1914.4  |
|                    | % Fixture | 5.8      | 0.0    | 5.8     |
| <b>Street Side</b> | Lumens    | 31277.6  | 0.0    | 31277.6 |
|                    | % Fixture | 94.2     | 0.0    | 94.2    |
| <b>Total</b>       | Lumens    | 33192.0  | 0.0    | 33192.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 335.5   | 1.0       |
| 10°-20°   | 1322.5  | 4.0       |
| 20°-30°   | 2829.8  | 8.5       |
| 30°-40°   | 5201.2  | 15.7      |
| 40°-50°   | 7973.6  | 24.0      |
| 50°-60°   | 8435.0  | 25.4      |
| 60°-70°   | 5508.3  | 16.6      |
| 70°-80°   | 1505.1  | 4.5       |
| 80°-90°   | 81.0    | 0.2       |
| 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°    | 33192.0 | 100.0     |
| 0°-180°   | 33192.0 | 100.0     |

**Coefficient of Utilization**



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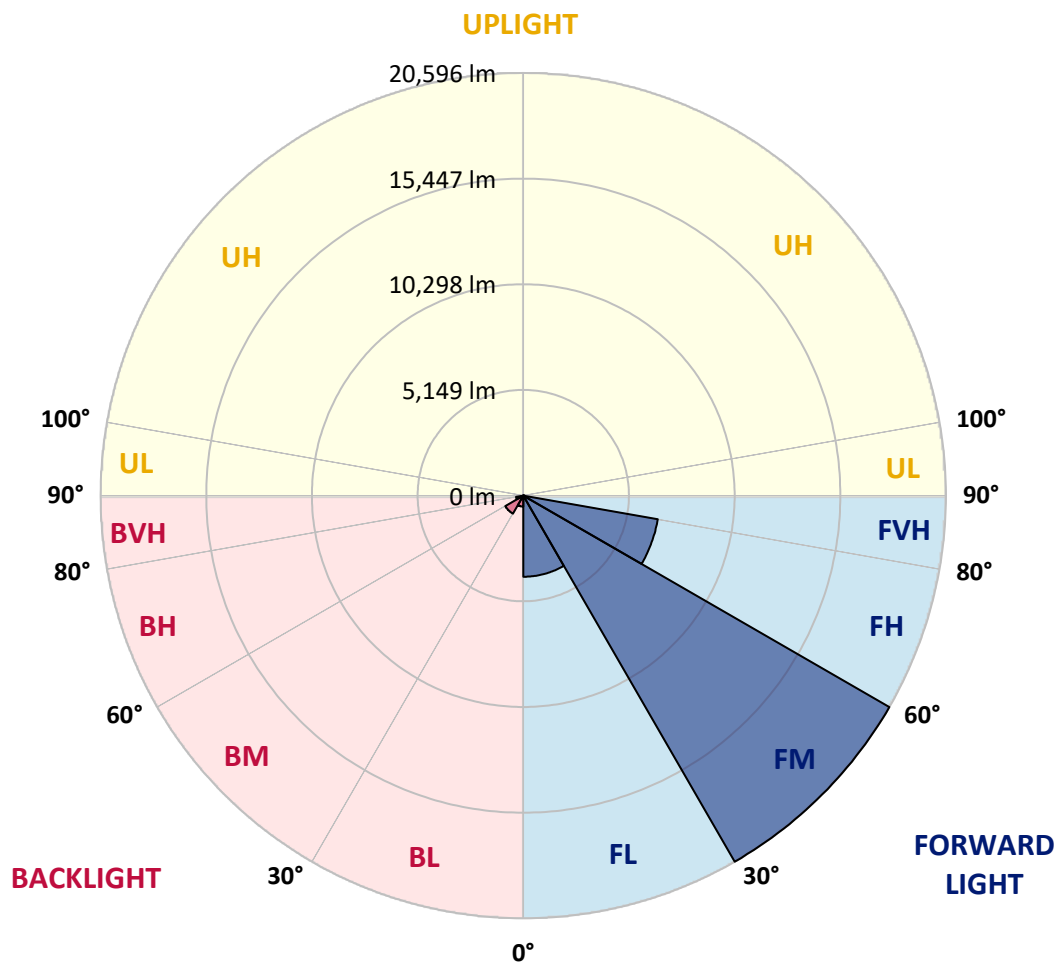
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3953.1  | 11.9      |                         |      |         |
| FM   | (30°-60°)   | 20596.2 | 62.1      |                         |      |         |
| FH   | (60°-80°)   | 6653.9  | 20.0      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 74.3    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 534.8   | 1.6       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1013.5  | 3.1       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 359.4   | 1.1       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 6.7     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 74°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2779.8  | 2779.8  | 2779.8  | 2779.8  | 2779.8  | 2779.8  | 2779.8  | 2779.8  | 2779.8  | 2779.8  | 2779.8  |
| 2.5°  | 4067.7  | 4031.0  | 3957.7  | 3932.5  | 3824.8  | 3657.5  | 3510.8  | 3313.7  | 3157.9  | 3141.9  | 2954.0  |
| 5°    | 5447.3  | 5364.8  | 5330.4  | 5165.4  | 4906.4  | 4663.5  | 4246.5  | 3930.2  | 3565.8  | 3538.3  | 3160.2  |
| 7.5°  | 6776.4  | 6661.9  | 6627.5  | 6471.7  | 6169.2  | 5786.4  | 5245.6  | 4670.4  | 4092.9  | 4040.2  | 3437.5  |
| 10°   | 7738.9  | 7755.0  | 7693.1  | 7590.0  | 7344.8  | 6955.2  | 6288.3  | 5502.3  | 4679.6  | 4613.1  | 3749.2  |
| 12.5° | 8428.7  | 8426.4  | 8437.9  | 8435.6  | 8305.0  | 8009.4  | 7308.1  | 6402.9  | 5325.8  | 5195.2  | 4106.7  |
| 15°   | 8877.9  | 8884.8  | 8919.2  | 9038.3  | 9052.1  | 8868.7  | 8284.4  | 7264.6  | 6075.2  | 5912.5  | 4494.0  |
| 17.5° | 9331.7  | 9379.8  | 9434.8  | 9547.1  | 9647.9  | 9574.6  | 9162.1  | 8162.9  | 6753.5  | 6632.1  | 4908.7  |
| 20°   | 10081.0 | 10147.5 | 10115.4 | 10184.1 | 10236.9 | 10243.7 | 9925.2  | 8992.5  | 7576.2  | 7372.3  | 5383.1  |
| 22.5° | 11279.6 | 11277.3 | 11194.8 | 11071.0 | 10967.9 | 10963.3 | 10674.6 | 9845.0  | 8323.3  | 8126.2  | 5859.8  |
| 25°   | 12794.4 | 12801.2 | 12640.8 | 12287.9 | 12031.2 | 11717.3 | 11385.0 | 10592.1 | 9123.1  | 8880.2  | 6361.7  |
| 27.5° | 14531.4 | 14487.9 | 14245.0 | 13759.1 | 13250.4 | 12714.1 | 12235.2 | 11460.6 | 9971.0  | 9769.4  | 6936.9  |
| 30°   | 16092.1 | 16076.0 | 15791.8 | 15198.3 | 14529.1 | 13990.6 | 13296.2 | 12549.1 | 11068.7 | 10821.2 | 7580.8  |
| 32.5° | 17545.0 | 17567.9 | 17173.7 | 16559.6 | 15913.3 | 15292.3 | 14558.9 | 13589.6 | 12145.8 | 11795.2 | 8282.1  |
| 35°   | 18679.3 | 18702.3 | 18294.3 | 17783.3 | 17118.7 | 16603.1 | 15904.1 | 14698.7 | 13209.1 | 12913.5 | 9088.7  |
| 37.5° | 19284.3 | 19314.1 | 19078.1 | 18693.1 | 18278.3 | 18019.3 | 17368.5 | 16126.4 | 14501.6 | 14322.9 | 10042.1 |
| 40°   | 19398.9 | 19433.3 | 19330.2 | 19227.0 | 19204.1 | 19389.8 | 19199.5 | 17808.5 | 16293.7 | 16014.1 | 11462.9 |
| 42.5° | 19055.2 | 19101.0 | 19146.8 | 19376.0 | 19843.5 | 20524.1 | 21186.4 | 20091.0 | 18601.4 | 18225.6 | 13200.0 |
| 45°   | 18152.3 | 18147.7 | 18328.7 | 18922.3 | 19969.5 | 21422.5 | 23262.7 | 22948.7 | 21745.6 | 21298.7 | 15654.3 |
| 47.5° | 16607.7 | 16584.8 | 16976.6 | 17822.3 | 19453.9 | 21587.5 | 24956.2 | 26418.3 | 25758.3 | 25345.8 | 18292.1 |
| 50°   | 14254.1 | 14366.4 | 14982.9 | 16163.1 | 18172.9 | 21087.9 | 25478.7 | 28693.9 | 29051.4 | 28613.7 | 20423.3 |
| 52.5° | 11497.3 | 11492.7 | 12459.8 | 14061.6 | 16275.4 | 19987.9 | 25114.3 | 29106.4 | 30121.6 | 29787.0 | 21472.9 |
| 55°   | 8508.9  | 8568.5  | 9574.6  | 11190.2 | 13811.9 | 17980.4 | 23925.0 | 28682.4 | 30529.5 | 30293.5 | 22165.0 |
| 57°   | 6329.6  | 6435.0  | 7241.7  | 8951.2  | 11666.9 | 15993.5 | 22341.4 | 27923.9 | 30689.9 | 30561.6 | 22740.2 |
| 57.5° | 5907.9  | 5912.5  | 6698.5  | 8252.3  | 11038.9 | 15230.4 | 21887.7 | 27607.7 | 30685.4 | 30614.3 | 22834.1 |
| 60°   | 3636.9  | 3751.5  | 4294.6  | 5577.9  | 8080.4  | 11886.9 | 18846.6 | 25790.4 | 30447.0 | 30550.2 | 23235.2 |
| 62.5° | 2177.1  | 2225.2  | 2578.1  | 3361.9  | 5208.9  | 8676.2  | 15422.9 | 23464.3 | 29826.0 | 30139.9 | 23207.7 |
| 65°   | 1400.2  | 1411.7  | 1572.1  | 2035.0  | 3256.5  | 5864.4  | 11884.6 | 20391.2 | 28219.5 | 28797.0 | 22300.2 |
| 67.5° | 1081.7  | 1100.0  | 1164.2  | 1336.0  | 1888.3  | 3652.9  | 8405.8  | 17111.8 | 25620.8 | 26365.6 | 20100.2 |
| 70°   | 960.2   | 969.4   | 992.3   | 1047.3  | 1249.0  | 2062.5  | 5229.6  | 13367.3 | 21246.0 | 21456.8 | 15730.0 |
| 72.5° | 783.7   | 809.0   | 880.0   | 898.3   | 990.0   | 1287.9  | 2910.4  | 8971.9  | 14274.8 | 14327.5 | 8800.0  |
| 75°   | 607.3   | 611.9   | 717.3   | 770.0   | 834.2   | 886.9   | 1299.4  | 4523.7  | 6856.7  | 6490.0  | 3391.7  |
| 77.5° | 453.7   | 474.4   | 522.5   | 589.0   | 680.6   | 634.8   | 582.1   | 1705.0  | 2129.0  | 2090.0  | 985.4   |
| 80°   | 291.0   | 302.5   | 364.4   | 442.3   | 529.4   | 414.8   | 327.7   | 499.6   | 467.5   | 481.2   | 236.0   |
| 82.5° | 146.7   | 149.0   | 233.7   | 359.8   | 336.9   | 208.5   | 206.2   | 204.0   | 174.2   | 171.9   | 110.0   |
| 85°   | 16.0    | 34.4    | 151.2   | 206.2   | 151.2   | 68.7    | 96.2    | 94.0    | 91.7    | 94.0    | 64.2    |
| 87.5° | 2.3     | 2.3     | 25.2    | 29.8    | 20.6    | 22.9    | 27.5    | 29.8    | 36.7    | 34.4    | 27.5    |
| 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°    | 2779.8  | 2779.8 | 2779.8 | 2779.8 | 2779.8 | 2779.8 | 2779.8 | 2779.8 | 2779.8 | 2779.8 | 2779.8 |
| 2.5°  | 2862.3  | 2770.6 | 2601.0 | 2438.3 | 2316.9 | 2239.0 | 2138.1 | 2101.5 | 2048.7 | 2041.9 | 2016.7 |
| 5°    | 2986.0  | 2811.9 | 2516.2 | 2282.5 | 2094.6 | 1952.5 | 1828.7 | 1725.6 | 1643.1 | 1624.8 | 1634.0 |
| 7.5°  | 3162.5  | 2903.5 | 2491.0 | 2172.5 | 1911.2 | 1668.3 | 1471.2 | 1349.8 | 1262.7 | 1230.6 | 1235.2 |
| 10°   | 3361.9  | 3025.0 | 2486.5 | 2055.6 | 1656.9 | 1359.0 | 1143.5 | 1035.8 | 985.4  | 967.1  | 946.5  |
| 12.5° | 3597.9  | 3164.8 | 2475.0 | 1874.6 | 1377.3 | 1084.0 | 930.4  | 866.2  | 818.1  | 804.4  | 804.4  |
| 15°   | 3863.7  | 3313.7 | 2420.0 | 1650.0 | 1118.3 | 896.0  | 792.9  | 742.5  | 726.5  | 712.7  | 712.7  |
| 17.5° | 4141.0  | 3460.4 | 2305.4 | 1372.7 | 928.1  | 767.7  | 703.5  | 673.7  | 650.8  | 634.8  | 634.8  |
| 20°   | 4457.3  | 3604.8 | 2122.1 | 1127.5 | 783.7  | 685.2  | 634.8  | 600.4  | 582.1  | 568.3  | 563.7  |
| 22.5° | 4757.5  | 3721.7 | 1888.3 | 925.8  | 682.9  | 616.5  | 570.6  | 534.0  | 515.6  | 508.7  | 508.7  |
| 25°   | 5069.2  | 3792.7 | 1606.5 | 765.4  | 623.3  | 559.2  | 508.7  | 479.0  | 462.9  | 458.3  | 456.0  |
| 27.5° | 5371.7  | 3834.0 | 1359.0 | 669.2  | 568.3  | 506.5  | 458.3  | 435.4  | 419.4  | 414.8  | 417.1  |
| 30°   | 5738.3  | 3840.8 | 1118.3 | 600.4  | 520.2  | 456.0  | 412.5  | 391.9  | 382.7  | 378.1  | 375.8  |
| 32.5° | 6109.6  | 3831.7 | 939.6  | 559.2  | 474.4  | 412.5  | 375.8  | 359.8  | 352.9  | 346.0  | 346.0  |
| 35°   | 6526.7  | 3783.5 | 799.8  | 517.9  | 430.8  | 375.8  | 343.7  | 330.0  | 320.8  | 314.0  | 311.7  |
| 37.5° | 7044.6  | 3758.3 | 719.6  | 472.1  | 391.9  | 341.5  | 311.7  | 297.9  | 291.0  | 281.9  | 279.6  |
| 40°   | 7860.4  | 3870.6 | 694.4  | 430.8  | 352.9  | 309.4  | 281.9  | 265.8  | 256.7  | 247.5  | 245.2  |
| 42.5° | 8877.9  | 4067.7 | 653.1  | 389.6  | 318.5  | 279.6  | 252.1  | 233.7  | 217.7  | 206.2  | 201.7  |
| 45°   | 10195.6 | 4326.7 | 589.0  | 346.0  | 288.7  | 247.5  | 222.3  | 199.4  | 178.7  | 169.6  | 167.3  |
| 47.5° | 11577.5 | 4576.5 | 531.7  | 311.7  | 256.7  | 220.0  | 192.5  | 167.3  | 149.0  | 142.1  | 139.8  |
| 50°   | 12425.4 | 4626.9 | 495.0  | 272.7  | 224.6  | 190.2  | 162.7  | 139.8  | 128.3  | 121.5  | 121.5  |
| 52.5° | 12812.7 | 4546.7 | 444.6  | 238.3  | 194.8  | 167.3  | 139.8  | 121.5  | 114.6  | 110.0  | 107.7  |
| 55°   | 13083.1 | 4422.9 | 378.1  | 206.2  | 167.3  | 142.1  | 123.7  | 110.0  | 100.8  | 96.2   | 94.0   |
| 57°   | 13241.2 | 4255.6 | 327.7  | 181.0  | 144.4  | 123.7  | 110.0  | 98.5   | 89.4   | 80.2   | 80.2   |
| 57.5° | 13248.1 | 4191.5 | 314.0  | 178.7  | 137.5  | 119.2  | 107.7  | 96.2   | 84.8   | 75.6   | 73.3   |
| 60°   | 13044.1 | 3751.5 | 252.1  | 151.2  | 110.0  | 100.8  | 89.4   | 75.6   | 59.6   | 50.4   | 48.1   |
| 62.5° | 12388.7 | 3192.3 | 208.5  | 128.3  | 89.4   | 77.9   | 64.2   | 57.3   | 41.2   | 29.8   | 29.8   |
| 65°   | 11396.4 | 2589.6 | 178.7  | 103.1  | 73.3   | 57.3   | 43.5   | 41.2   | 25.2   | 13.7   | 11.5   |
| 67.5° | 9961.9  | 2016.7 | 151.2  | 84.8   | 61.9   | 41.2   | 29.8   | 27.5   | 13.7   | 4.6    | 0.0    |
| 70°   | 7590.0  | 1375.0 | 126.0  | 68.7   | 45.8   | 29.8   | 20.6   | 16.0   | 9.2    | 2.3    | 0.0    |
| 72.5° | 4374.8  | 756.2  | 105.4  | 52.7   | 34.4   | 22.9   | 16.0   | 9.2    | 9.2    | 0.0    | 0.0    |
| 75°   | 1562.9  | 325.4  | 80.2   | 39.0   | 27.5   | 18.3   | 11.5   | 4.6    | 6.9    | 2.3    | 0.0    |
| 77.5° | 497.3   | 174.2  | 52.7   | 29.8   | 22.9   | 13.7   | 9.2    | 4.6    | 4.6    | 2.3    | 0.0    |
| 80°   | 146.7   | 91.7   | 32.1   | 25.2   | 16.0   | 11.5   | 6.9    | 2.3    | 4.6    | 2.3    | 0.0    |
| 82.5° | 80.2    | 45.8   | 25.2   | 18.3   | 16.0   | 9.2    | 6.9    | 2.3    | 2.3    | 2.3    | 0.0    |
| 85°   | 41.2    | 27.5   | 20.6   | 18.3   | 16.0   | 9.2    | 6.9    | 2.3    | 0.0    | 2.3    | 2.3    |
| 87.5° | 22.9    | 20.6   | 20.6   | 18.3   | 16.0   | 11.5   | 6.9    | 2.3    | 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)