

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: P458008

Luminaire Tested: **GLAN-SA9B-827-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458008  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9B-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28348 lumens  
Efficiency: N/A  
Efficacy: 77.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 364  
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

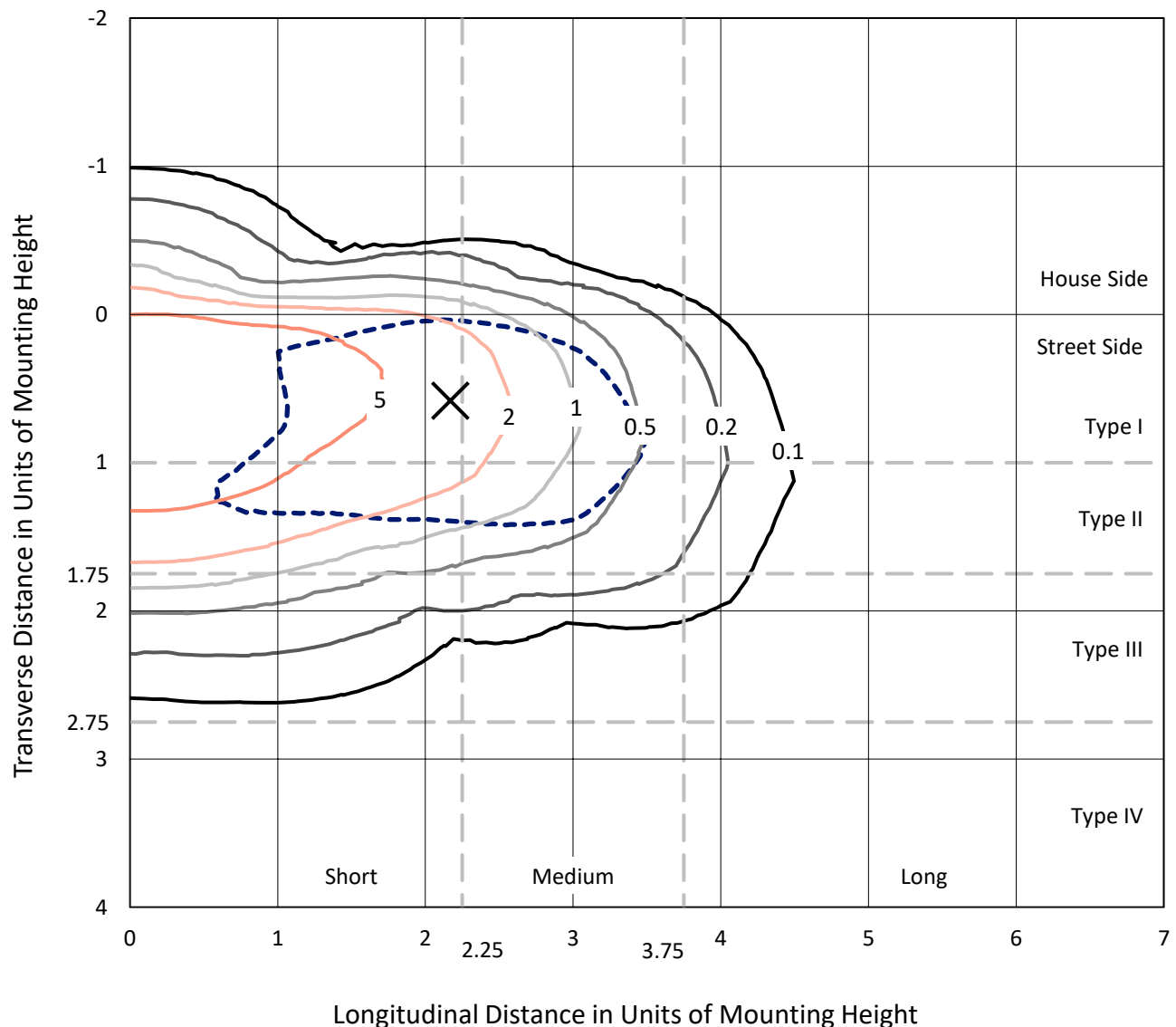


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## Iso-Footcandle Lines of Horizontal Illumination

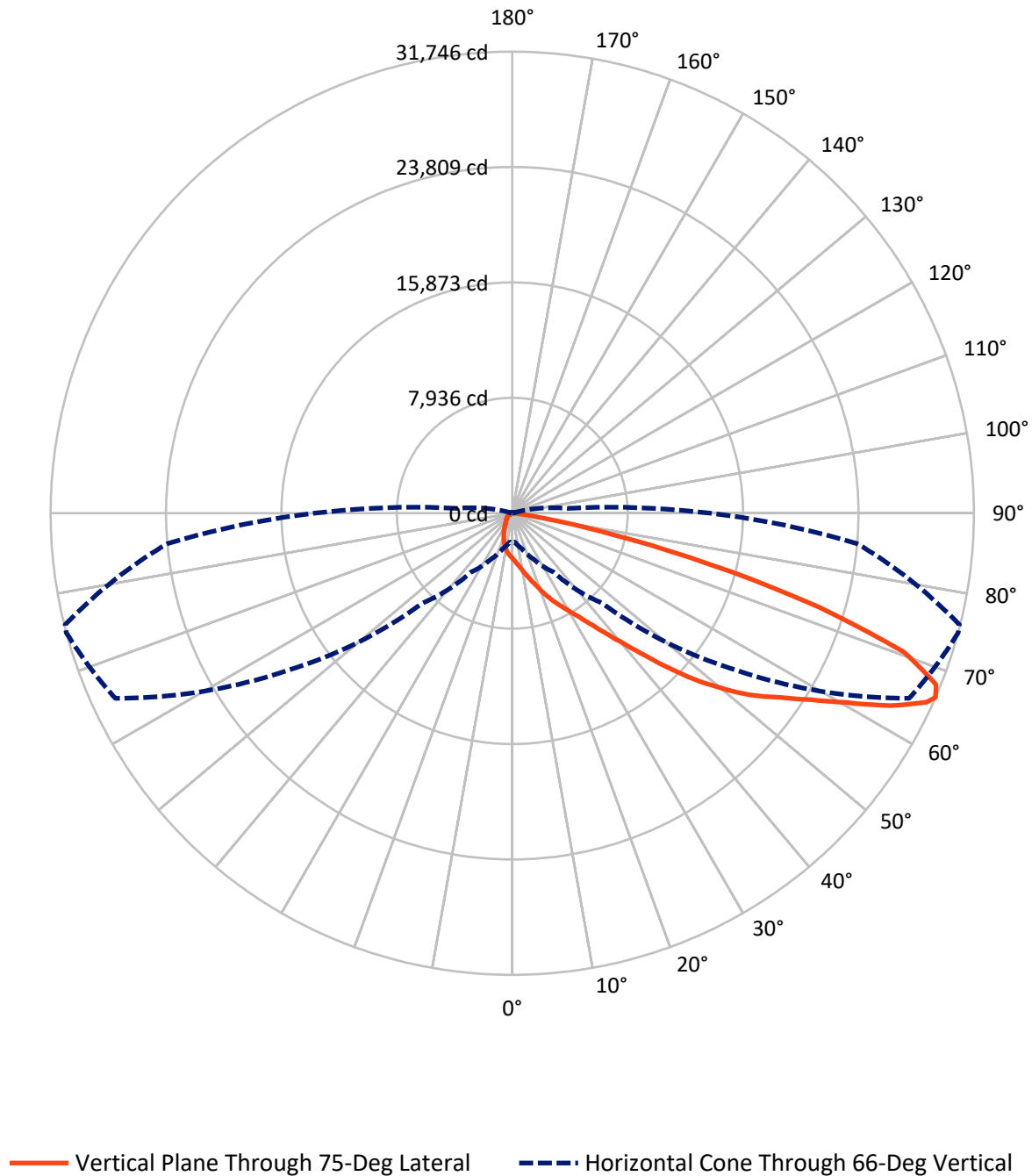
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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    | 1750.1   | 0.0    | 1750.1  |
|                    | % Fixture | 6.2      | 0.0    | 6.2     |
| <b>Street Side</b> | Lumens    | 26597.9  | 0.0    | 26597.9 |
|                    | % Fixture | 93.8     | 0.0    | 93.8    |
| <b>Total</b>       | Lumens    | 28348.0  | 0.0    | 28348.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 299.0   | 1.1       |
| 10°-20°   | 880.0   | 3.1       |
| 20°-30°   | 1519.6  | 5.4       |
| 30°-40°   | 2741.0  | 9.7       |
| 40°-50°   | 4951.7  | 17.5      |
| 50°-60°   | 7719.8  | 27.2      |
| 60°-70°   | 7333.5  | 25.9      |
| 70°-80°   | 2748.4  | 9.7       |
| 80°-90°   | 155.1   | 0.5       |
| 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°    | 28348.0 | 100.0     |
| 0°-180°   | 28348.0 | 100.0     |

**Coefficient of Utilization**



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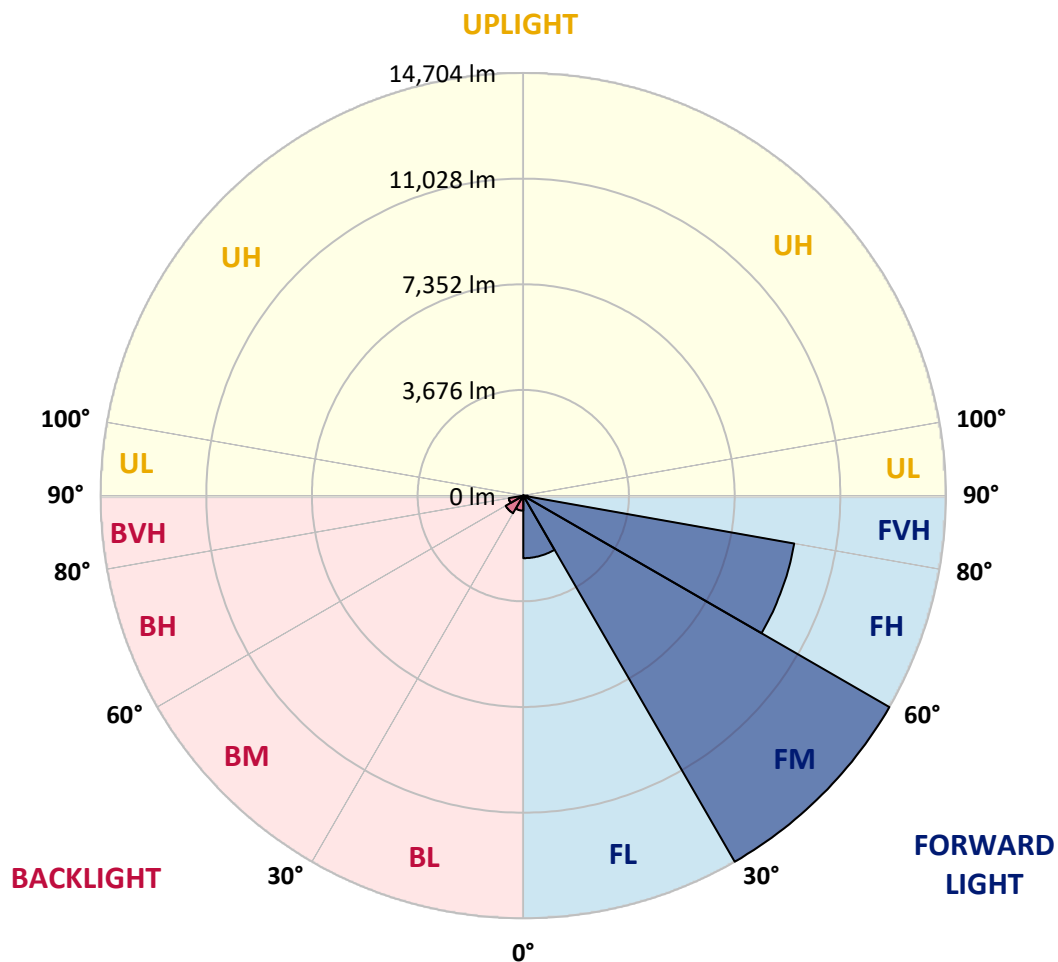
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2176.0  | 7.7       |                         |      |          |
| FM   | (30°-60°)   | 14704.1 | 51.9      |                         |      |          |
| FH   | (60°-80°)   | 9570.8  | 33.8      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 147.1   | 0.5       |                         |      | G2/225   |
| BL   | (0°-30°)    | 522.7   | 1.8       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 708.4   | 2.5       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 511.0   | 1.8       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 8.0     | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3100.1  | 3100.1  | 3100.1  | 3100.1  | 3100.1  | 3100.1  | 3100.1  | 3100.1  | 3100.1  | 3100.1  | 3100.1  |
| 2.5°  | 3703.8  | 3657.7  | 3672.4  | 3651.4  | 3603.2  | 3531.9  | 3469.0  | 3378.9  | 3288.8  | 3274.1  | 3173.5  |
| 5°    | 4192.2  | 4179.6  | 4162.9  | 4102.1  | 4068.5  | 3959.5  | 3829.6  | 3674.5  | 3487.9  | 3454.4  | 3272.0  |
| 7.5°  | 4525.5  | 4519.2  | 4527.6  | 4496.1  | 4466.8  | 4368.3  | 4229.9  | 4018.2  | 3729.0  | 3710.1  | 3406.2  |
| 10°   | 4634.5  | 4651.2  | 4682.7  | 4733.0  | 4779.1  | 4747.7  | 4642.9  | 4378.8  | 4041.3  | 3986.8  | 3559.2  |
| 12.5° | 4571.6  | 4590.5  | 4665.9  | 4800.1  | 4948.9  | 5034.8  | 4992.9  | 4800.1  | 4372.5  | 4328.4  | 3731.1  |
| 15°   | 4410.2  | 4433.3  | 4540.2  | 4747.7  | 5013.9  | 5257.0  | 5361.8  | 5223.5  | 4758.2  | 4686.9  | 3938.6  |
| 17.5° | 4171.2  | 4204.8  | 4357.8  | 4632.4  | 4997.1  | 5416.3  | 5711.9  | 5665.8  | 5169.0  | 5101.9  | 4165.0  |
| 20°   | 3991.0  | 4016.1  | 4146.1  | 4460.5  | 4925.8  | 5504.4  | 6045.2  | 6175.1  | 5676.2  | 5561.0  | 4431.2  |
| 22.5° | 4110.5  | 4118.8  | 4162.9  | 4351.5  | 4798.0  | 5527.4  | 6338.6  | 6705.4  | 6214.9  | 6112.2  | 4707.8  |
| 25°   | 4695.3  | 4611.4  | 4567.4  | 4525.5  | 4770.7  | 5506.5  | 6604.8  | 7258.8  | 6751.5  | 6642.5  | 4982.4  |
| 27.5° | 5617.6  | 5579.8  | 5357.6  | 5060.0  | 5003.4  | 5533.7  | 6780.9  | 7782.8  | 7256.7  | 7139.3  | 5250.7  |
| 30°   | 6621.6  | 6556.6  | 6420.4  | 5984.4  | 5546.3  | 5726.5  | 6908.8  | 8292.2  | 7854.1  | 7699.0  | 5496.0  |
| 32.5° | 7543.9  | 7585.8  | 7382.5  | 6933.9  | 6426.6  | 6137.4  | 7074.3  | 8847.6  | 8539.5  | 8346.7  | 5781.0  |
| 35°   | 8619.2  | 8703.0  | 8390.7  | 7961.0  | 7367.8  | 6879.4  | 7397.1  | 9474.4  | 9409.4  | 9166.3  | 6221.2  |
| 37.5° | 9711.2  | 9761.5  | 9570.8  | 8967.1  | 8432.6  | 7822.7  | 8005.0  | 10247.8 | 10480.5 | 10273.0 | 6747.4  |
| 40°   | 10629.3 | 10698.5 | 10558.1 | 10021.5 | 9451.3  | 8914.7  | 8887.5  | 11090.5 | 11754.9 | 11541.1 | 7531.3  |
| 42.5° | 11331.5 | 11383.9 | 11388.1 | 11008.7 | 10495.2 | 10252.0 | 10013.1 | 12165.8 | 13352.2 | 13104.8 | 8441.0  |
| 45°   | 12218.2 | 12293.6 | 12249.6 | 11991.8 | 11608.2 | 11564.2 | 11440.5 | 13465.4 | 15263.8 | 14951.5 | 9621.1  |
| 47.5° | 13589.0 | 13639.3 | 13530.3 | 13226.4 | 12836.5 | 12905.7 | 12832.3 | 14922.1 | 17213.2 | 16944.9 | 10843.1 |
| 50°   | 14540.7 | 14624.5 | 14779.6 | 14901.2 | 14618.2 | 14362.5 | 14144.5 | 16282.5 | 19064.0 | 18823.0 | 12092.4 |
| 52.5° | 14530.2 | 14668.5 | 15159.0 | 15771.1 | 16389.4 | 16311.9 | 15685.1 | 17785.4 | 20831.1 | 20533.4 | 13266.2 |
| 55°   | 13551.3 | 13819.6 | 14540.7 | 15626.4 | 17339.0 | 18192.1 | 17907.0 | 19525.2 | 22357.0 | 22155.8 | 14626.6 |
| 57.5° | 11530.7 | 11694.1 | 12696.1 | 14213.7 | 16808.6 | 19076.6 | 20481.0 | 21883.3 | 24186.9 | 24092.6 | 16739.5 |
| 60°   | 7755.6  | 7828.9  | 9118.0  | 10994.1 | 14310.1 | 18194.2 | 22367.5 | 24736.1 | 26440.2 | 26394.1 | 19206.6 |
| 62.5° | 4443.7  | 4475.2  | 5410.0  | 6992.6  | 10182.9 | 15418.9 | 22526.8 | 28255.4 | 29142.1 | 29167.3 | 22061.5 |
| 65°   | 2391.7  | 2408.4  | 3163.0  | 4104.2  | 6196.1  | 10989.9 | 20256.7 | 30183.9 | 31326.2 | 31374.4 | 23830.6 |
| 66°   | 2064.7  | 1985.0  | 2517.4  | 3498.4  | 4930.0  | 8747.0  | 18820.9 | 30114.7 | 31745.5 | 31693.1 | 23767.7 |
| 67.5° | 1570.0  | 1641.2  | 2010.2  | 2689.3  | 3653.5  | 6219.1  | 15538.4 | 28775.3 | 31426.8 | 31263.4 | 22801.4 |
| 70°   | 1123.5  | 1152.9  | 1431.6  | 1917.9  | 2488.1  | 3412.5  | 9929.2  | 23899.7 | 28563.6 | 28343.5 | 19864.8 |
| 72.5° | 725.3   | 756.7   | 1014.5  | 1387.6  | 1798.5  | 1863.4  | 5558.9  | 17267.7 | 22021.6 | 21990.2 | 14959.9 |
| 75°   | 517.7   | 547.1   | 670.8   | 993.6   | 1352.0  | 1152.9  | 2676.7  | 11637.6 | 13999.9 | 13905.5 | 9254.3  |
| 77.5° | 375.2   | 389.9   | 448.6   | 649.8   | 966.3   | 825.9   | 1240.9  | 6214.9  | 6969.5  | 7298.6  | 4089.5  |
| 80°   | 215.9   | 228.5   | 312.3   | 396.2   | 654.0   | 563.9   | 593.2   | 2494.4  | 2571.9  | 2448.2  | 1278.6  |
| 82.5° | 106.9   | 121.6   | 186.6   | 270.4   | 408.7   | 379.4   | 272.5   | 750.4   | 792.3   | 771.4   | 322.8   |
| 85°   | 25.2    | 31.4    | 104.8   | 178.2   | 199.1   | 169.8   | 132.1   | 220.1   | 272.5   | 266.2   | 123.7   |
| 87.5° | 2.1     | 4.2     | 37.7    | 31.4    | 33.5    | 56.6    | 46.1    | 56.6    | 88.0    | 81.7    | 44.0    |
| 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°    | 3100.1  | 3100.1 | 3100.1 | 3100.1 | 3100.1 | 3100.1 | 3100.1 | 3100.1 | 3100.1 | 3100.1 | 3100.1 |
| 2.5°  | 3127.4  | 3087.6 | 2972.3 | 2859.1 | 2764.8 | 2666.2 | 2576.1 | 2523.7 | 2502.7 | 2479.7 | 2490.2 |
| 5°    | 3171.4  | 3075.0 | 2842.3 | 2641.1 | 2444.1 | 2276.4 | 2142.2 | 2056.3 | 2014.4 | 2008.1 | 1997.6 |
| 7.5°  | 3230.1  | 3064.5 | 2704.0 | 2389.6 | 2131.7 | 1945.2 | 1792.2 | 1668.5 | 1630.8 | 1597.2 | 1570.0 |
| 10°   | 3301.4  | 3045.6 | 2532.1 | 2125.4 | 1850.9 | 1616.1 | 1414.9 | 1268.1 | 1192.7 | 1171.7 | 1186.4 |
| 12.5° | 3376.8  | 3010.0 | 2351.8 | 1882.3 | 1565.8 | 1266.0 | 1079.5 | 1006.1 | 985.2  | 976.8  | 978.9  |
| 15°   | 3452.3  | 2966.0 | 2163.2 | 1647.5 | 1247.2 | 1010.3 | 924.4  | 905.5  | 897.1  | 892.9  | 888.7  |
| 17.5° | 3521.5  | 2894.7 | 1951.5 | 1419.1 | 1010.3 | 863.6  | 832.2  | 815.4  | 798.6  | 792.3  | 781.8  |
| 20°   | 3603.2  | 2813.0 | 1760.7 | 1163.3 | 855.2  | 781.8  | 744.1  | 712.7  | 687.5  | 670.8  | 668.7  |
| 22.5° | 3680.8  | 2708.2 | 1561.6 | 964.2  | 779.7  | 702.2  | 641.4  | 607.9  | 578.5  | 557.6  | 563.9  |
| 25°   | 3722.7  | 2580.3 | 1383.4 | 840.5  | 710.6  | 622.5  | 555.5  | 513.5  | 482.1  | 471.6  | 469.5  |
| 27.5° | 3722.7  | 2423.1 | 1209.5 | 769.3  | 647.7  | 551.3  | 482.1  | 442.3  | 421.3  | 406.6  | 408.7  |
| 30°   | 3693.3  | 2249.1 | 1048.1 | 714.8  | 593.2  | 488.4  | 423.4  | 387.8  | 371.0  | 360.5  | 358.4  |
| 32.5° | 3670.3  | 2083.5 | 909.7  | 662.4  | 536.6  | 433.9  | 377.3  | 350.0  | 333.3  | 322.8  | 322.8  |
| 35°   | 3705.9  | 1941.0 | 802.8  | 610.0  | 484.2  | 392.0  | 341.7  | 316.5  | 299.7  | 291.4  | 289.3  |
| 37.5° | 3800.2  | 1811.0 | 721.1  | 553.4  | 436.0  | 356.3  | 316.5  | 287.2  | 270.4  | 259.9  | 255.7  |
| 40°   | 4032.9  | 1737.7 | 660.3  | 501.0  | 389.9  | 327.0  | 287.2  | 259.9  | 239.0  | 228.5  | 226.4  |
| 42.5° | 4406.0  | 1739.8 | 601.6  | 452.8  | 354.2  | 301.8  | 262.0  | 230.6  | 207.5  | 197.0  | 194.9  |
| 45°   | 4967.8  | 1819.4 | 555.5  | 406.6  | 322.8  | 274.6  | 234.8  | 201.2  | 180.3  | 169.8  | 169.8  |
| 47.5° | 5640.6  | 1974.5 | 515.6  | 366.8  | 293.5  | 249.4  | 207.5  | 174.0  | 153.0  | 144.6  | 144.6  |
| 50°   | 6370.1  | 2175.8 | 475.8  | 324.9  | 268.3  | 222.2  | 178.2  | 150.9  | 134.2  | 127.9  | 127.9  |
| 52.5° | 7114.2  | 2418.9 | 436.0  | 291.4  | 241.1  | 192.8  | 153.0  | 134.2  | 119.5  | 115.3  | 113.2  |
| 55°   | 8091.0  | 2729.1 | 394.1  | 255.7  | 211.7  | 165.6  | 136.2  | 117.4  | 100.6  | 94.3   | 92.2   |
| 57.5° | 9593.9  | 3196.6 | 348.0  | 224.3  | 174.0  | 138.3  | 117.4  | 98.5   | 79.7   | 69.2   | 67.1   |
| 60°   | 11407.0 | 3766.7 | 299.7  | 197.0  | 140.4  | 113.2  | 94.3   | 75.5   | 58.7   | 46.1   | 44.0   |
| 62.5° | 13104.8 | 4129.3 | 253.6  | 165.6  | 111.1  | 85.9   | 67.1   | 56.6   | 41.9   | 29.3   | 27.2   |
| 65°   | 13855.2 | 4007.7 | 209.6  | 134.2  | 88.0   | 60.8   | 44.0   | 39.8   | 25.2   | 12.6   | 10.5   |
| 66°   | 13605.8 | 3827.5 | 192.8  | 121.6  | 79.7   | 52.4   | 37.7   | 33.5   | 18.9   | 6.3    | 6.3    |
| 67.5° | 12870.1 | 3402.0 | 167.7  | 104.8  | 69.2   | 41.9   | 29.3   | 25.2   | 10.5   | 2.1    | 0.0    |
| 70°   | 11027.6 | 2752.2 | 132.1  | 77.6   | 50.3   | 29.3   | 16.8   | 12.6   | 6.3    | 0.0    | 0.0    |
| 72.5° | 8470.3  | 2050.0 | 104.8  | 58.7   | 35.6   | 16.8   | 8.4    | 4.2    | 6.3    | 0.0    | 0.0    |
| 75°   | 5189.9  | 1171.7 | 81.7   | 44.0   | 23.1   | 10.5   | 6.3    | 0.0    | 6.3    | 2.1    | 0.0    |
| 77.5° | 2303.6  | 526.1  | 54.5   | 29.3   | 16.8   | 8.4    | 4.2    | 0.0    | 4.2    | 2.1    | 0.0    |
| 80°   | 582.7   | 171.9  | 31.4   | 21.0   | 12.6   | 6.3    | 2.1    | 0.0    | 4.2    | 4.2    | 2.1    |
| 82.5° | 159.3   | 62.9   | 23.1   | 16.8   | 10.5   | 6.3    | 2.1    | 0.0    | 4.2    | 4.2    | 4.2    |
| 85°   | 62.9    | 29.3   | 21.0   | 16.8   | 12.6   | 6.3    | 2.1    | 0.0    | 4.2    | 4.2    | 4.2    |
| 87.5° | 29.3    | 21.0   | 21.0   | 18.9   | 14.7   | 6.3    | 2.1    | 0.0    | 4.2    | 2.1    | 4.2    |
| 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)