

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: P321202

Luminaire Tested: **GAN-SA8B-727-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321202  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8B-727-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 800mA 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: 30915 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

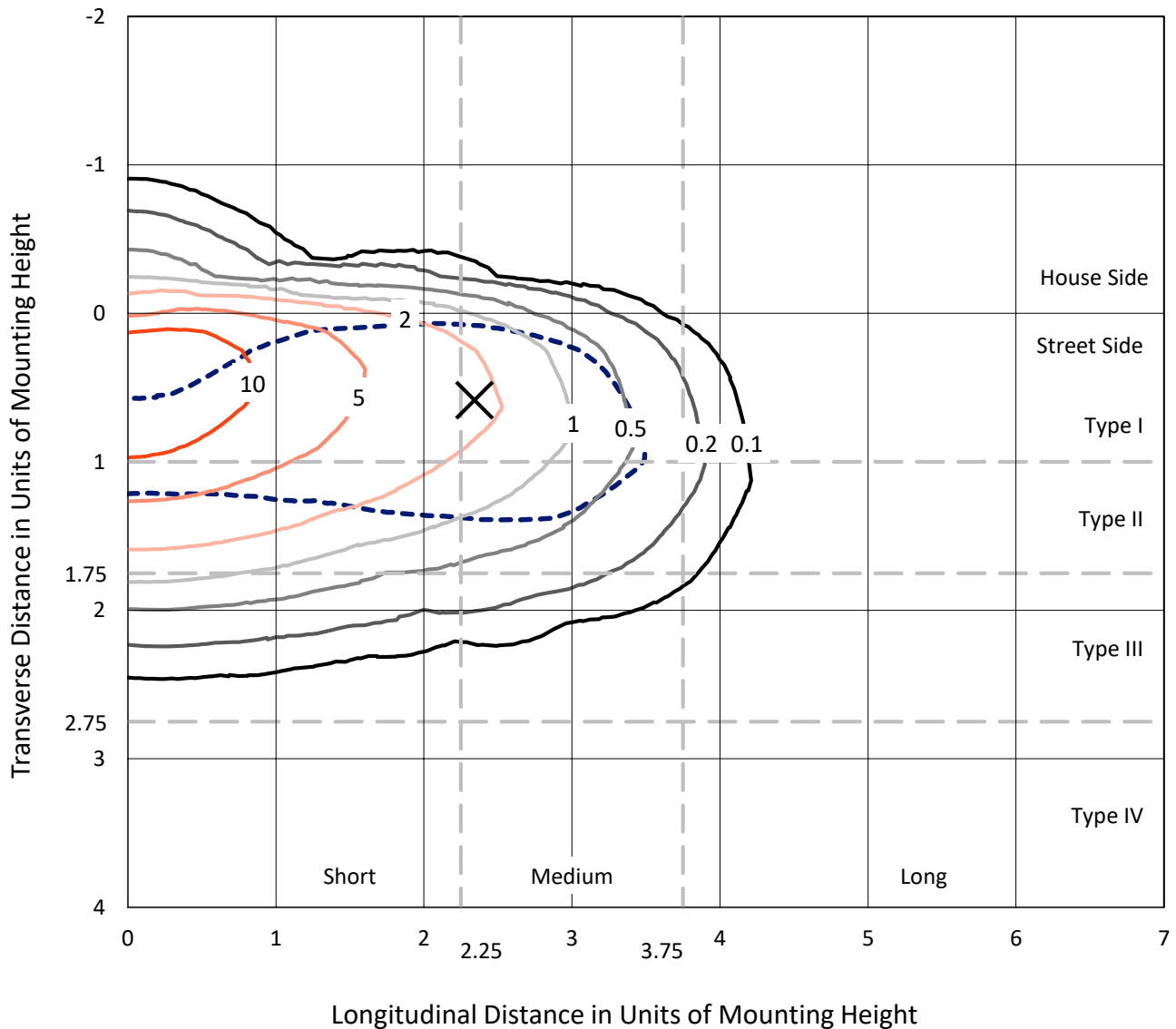
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

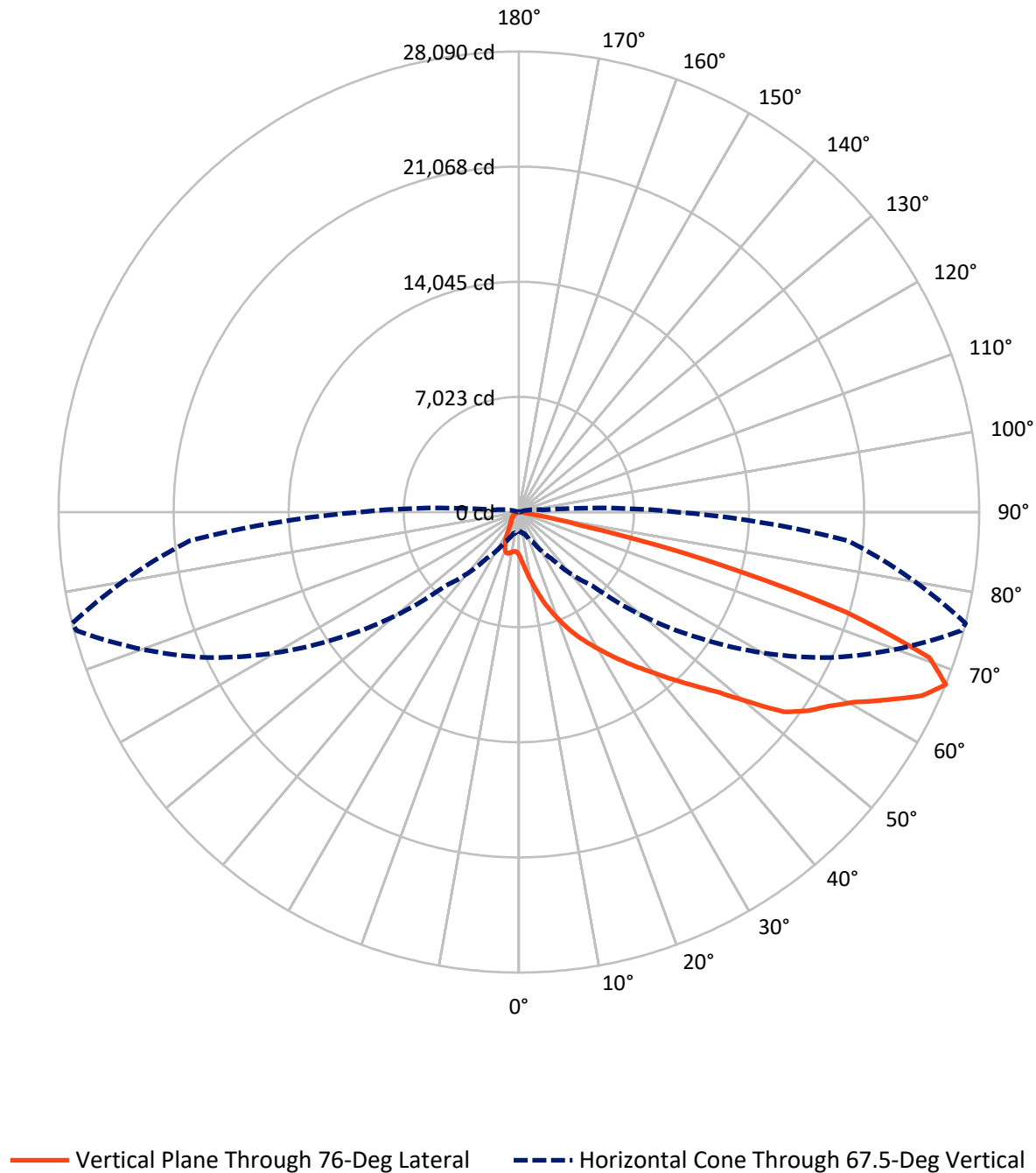
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc  
 Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1535.2   | 0.0    | 1535.2  |
|                    | % Fixture | 5.0      | 0.0    | 5.0     |
| <b>Street Side</b> | Lumens    | 29379.8  | 0.0    | 29379.8 |
|                    | % Fixture | 95.0     | 0.0    | 95.0    |
| <b>Total</b>       | Lumens    | 30915.0  | 0.0    | 30915.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 326.1   | 1.1       |
| 10°-20°   | 1292.7  | 4.2       |
| 20°-30°   | 2630.3  | 8.5       |
| 30°-40°   | 4565.3  | 14.8      |
| 40°-50°   | 6450.1  | 20.9      |
| 50°-60°   | 7314.8  | 23.7      |
| 60°-70°   | 6066.9  | 19.6      |
| 70°-80°   | 2197.6  | 7.1       |
| 80°-90°   | 71.3    | 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°    | 30915.0 | 100.0     |
| 0°-180°   | 30915.0 | 100.0     |

**Coefficient of Utilization**



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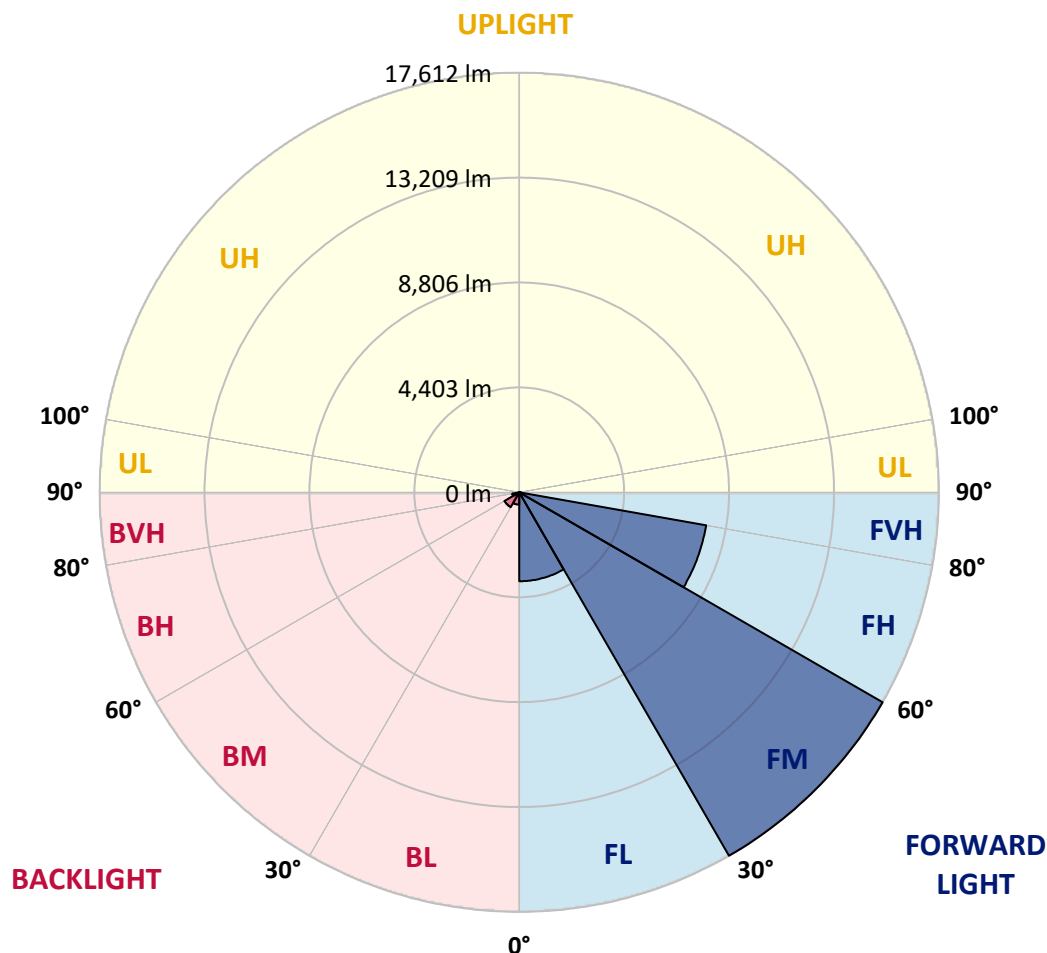
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3731.3  | 12.1      |                         |      |          |
| FM   | (30°-60°)   | 17611.7 | 57.0      |                         |      |          |
| FH   | (60°-80°)   | 7967.8  | 25.8      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 69.0    | 0.2       |                         |      | G1/100   |
| BL   | (0°-30°)    | 517.7   | 1.7       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 718.5   | 2.3       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 296.7   | 1.0       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 2.2     | 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 Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2622.5  | 2622.5  | 2622.5  | 2622.5  | 2622.5  | 2622.5  | 2622.5  | 2622.5  | 2622.5  | 2622.5  | 2622.5  |
| 2.5°  | 3914.8  | 3826.7  | 3847.0  | 3790.1  | 3687.2  | 3475.9  | 3295.7  | 3125.0  | 2925.9  | 2919.1  | 2755.2  |
| 5°    | 5278.8  | 5204.3  | 5194.9  | 5079.7  | 4892.8  | 4533.8  | 4184.3  | 3786.1  | 3341.8  | 3309.3  | 2961.1  |
| 7.5°  | 6516.9  | 6457.3  | 6435.7  | 6298.8  | 5950.7  | 5601.2  | 5146.1  | 4560.9  | 3866.0  | 3806.4  | 3238.8  |
| 10°   | 7467.9  | 7439.4  | 7444.8  | 7347.3  | 7049.3  | 6724.2  | 6126.8  | 5380.4  | 4460.7  | 4368.6  | 3572.1  |
| 12.5° | 8188.5  | 8195.3  | 8244.0  | 8184.4  | 8017.8  | 7776.7  | 7138.7  | 6254.1  | 5119.0  | 4993.0  | 3952.7  |
| 15°   | 8718.1  | 8752.0  | 8841.4  | 8915.9  | 8903.7  | 8695.1  | 8109.9  | 7141.4  | 5818.0  | 5678.4  | 4376.7  |
| 17.5° | 9060.9  | 9098.8  | 9228.8  | 9394.1  | 9545.8  | 9497.0  | 9047.3  | 7997.5  | 6525.1  | 6363.9  | 4830.5  |
| 20°   | 9361.6  | 9406.3  | 9545.8  | 9763.9  | 10047.0 | 10108.0 | 9812.7  | 8827.9  | 7230.8  | 7034.4  | 5299.2  |
| 22.5° | 10013.1 | 10011.8 | 10097.1 | 10224.4 | 10494.0 | 10651.1 | 10464.2 | 9598.6  | 7928.4  | 7723.9  | 5777.3  |
| 25°   | 11191.6 | 11146.9 | 11117.1 | 11016.9 | 11076.5 | 11174.0 | 11069.7 | 10319.3 | 8630.1  | 8422.8  | 6262.3  |
| 27.5° | 12592.3 | 12619.4 | 12378.2 | 12108.7 | 11900.1 | 11799.8 | 11629.2 | 10987.1 | 9304.7  | 9077.1  | 6736.4  |
| 30°   | 14070.1 | 14078.3 | 13793.8 | 13449.7 | 12990.5 | 12609.9 | 12314.6 | 11625.1 | 9998.2  | 9750.3  | 7196.9  |
| 32.5° | 15403.0 | 15350.2 | 15068.5 | 14599.8 | 14020.0 | 13592.0 | 12978.3 | 12337.6 | 10732.4 | 10492.7 | 7709.0  |
| 35°   | 16459.6 | 16397.3 | 16054.6 | 15627.9 | 15026.5 | 14595.7 | 13857.5 | 13048.8 | 11504.5 | 11270.2 | 8222.4  |
| 37.5° | 17231.7 | 17158.6 | 16806.4 | 16367.5 | 15848.7 | 15598.1 | 14877.5 | 13822.2 | 12347.1 | 12095.1 | 8762.8  |
| 40°   | 17500.0 | 17436.3 | 17215.5 | 16894.5 | 16477.2 | 16420.3 | 15959.8 | 14712.2 | 13264.2 | 12995.9 | 9375.1  |
| 42.5° | 17340.1 | 17277.8 | 17199.2 | 17090.9 | 16917.5 | 16971.7 | 16981.1 | 15726.8 | 14282.8 | 14018.7 | 10051.1 |
| 45°   | 16706.2 | 16650.6 | 16731.9 | 16890.4 | 17105.8 | 17374.0 | 17913.1 | 16817.2 | 15420.7 | 15138.9 | 10832.7 |
| 47.5° | 15772.9 | 15732.2 | 15957.1 | 16352.6 | 16982.5 | 17722.1 | 18765.1 | 17963.2 | 16698.0 | 16436.6 | 11808.0 |
| 50°   | 14445.4 | 14438.6 | 14888.3 | 15610.3 | 16578.8 | 17890.1 | 19645.6 | 19266.3 | 18472.6 | 18197.6 | 13163.9 |
| 52.5° | 12378.2 | 12391.8 | 13276.3 | 14431.8 | 15870.4 | 17776.3 | 20211.8 | 20940.6 | 20536.9 | 20251.1 | 14338.3 |
| 55°   | 10410.0 | 10491.3 | 11118.5 | 12784.6 | 14784.0 | 17353.7 | 20406.9 | 21722.2 | 21676.2 | 21405.2 | 14991.3 |
| 57.5° | 8482.4  | 8630.1  | 9234.2  | 10790.7 | 13197.8 | 16379.7 | 20299.9 | 22060.9 | 22524.1 | 22316.9 | 15852.8 |
| 60°   | 6393.7  | 6461.4  | 7157.7  | 8612.5  | 11161.8 | 14602.5 | 19523.7 | 22245.1 | 23683.7 | 23540.1 | 17103.1 |
| 62.5° | 4067.8  | 4237.2  | 4854.9  | 6258.2  | 8691.1  | 12134.4 | 18215.2 | 22242.4 | 25134.4 | 25213.0 | 18716.4 |
| 65°   | 2143.0  | 2340.7  | 2668.5  | 3878.2  | 5972.4  | 9377.8  | 16247.0 | 22033.8 | 26914.4 | 27024.1 | 19977.5 |
| 67.5° | 1155.5  | 1212.4  | 1385.7  | 2012.9  | 3463.7  | 6353.0  | 13354.9 | 21004.3 | 27945.2 | 28090.1 | 20153.6 |
| 70°   | 845.3   | 876.4   | 941.4   | 1113.5  | 1743.4  | 3689.9  | 9744.9  | 18670.3 | 26616.4 | 26562.2 | 17906.3 |
| 72.5° | 648.8   | 697.6   | 746.4   | 815.5   | 1002.4  | 1969.6  | 6067.2  | 14620.1 | 21237.3 | 20879.7 | 13384.7 |
| 75°   | 512.0   | 520.2   | 589.2   | 651.6   | 751.8   | 1121.6  | 2694.3  | 8515.0  | 12962.1 | 12115.5 | 6940.9  |
| 77.5° | 409.1   | 414.5   | 455.1   | 509.3   | 604.1   | 736.9   | 834.4   | 3349.9  | 4138.3  | 3692.6  | 1506.3  |
| 80°   | 242.5   | 256.0   | 338.6   | 392.8   | 501.2   | 464.6   | 304.8   | 727.4   | 646.1   | 585.2   | 253.3   |
| 82.5° | 135.5   | 146.3   | 191.0   | 310.2   | 349.5   | 222.2   | 151.7   | 196.4   | 151.7   | 147.7   | 71.8    |
| 85°   | 0.0     | 6.8     | 123.3   | 192.4   | 142.2   | 48.8    | 63.7    | 65.0    | 44.7    | 42.0    | 28.4    |
| 87.5° | 0.0     | 0.0     | 37.9    | 36.6    | 5.4     | 8.1     | 14.9    | 21.7    | 17.6    | 17.6    | 14.9    |
| 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°    | 2622.5  | 2622.5 | 2622.5 | 2622.5 | 2622.5 | 2622.5 | 2622.5 | 2622.5 | 2622.5 | 2622.5 | 2622.5 |
| 2.5°  | 2674.0  | 2600.8 | 2462.6 | 2327.2 | 2213.4 | 2119.9 | 2035.9 | 2002.1 | 1975.0 | 1970.9 | 1949.3 |
| 5°    | 2793.2  | 2645.5 | 2381.4 | 2164.6 | 2019.7 | 1916.7 | 1828.7 | 1774.5 | 1732.5 | 1716.3 | 1701.4 |
| 7.5°  | 2973.3  | 2749.8 | 2370.5 | 2121.3 | 1947.9 | 1774.5 | 1612.0 | 1435.9 | 1326.1 | 1284.2 | 1259.8 |
| 10°   | 3192.8  | 2888.0 | 2411.2 | 2109.1 | 1805.7 | 1439.9 | 1170.4 | 946.9  | 856.1  | 826.3  | 818.2  |
| 12.5° | 3448.8  | 3060.0 | 2481.6 | 2033.2 | 1502.2 | 1022.7 | 807.3  | 731.5  | 711.2  | 701.7  | 701.7  |
| 15°   | 3742.7  | 3248.3 | 2531.7 | 1813.8 | 1110.8 | 773.5  | 699.0  | 663.7  | 642.1  | 629.9  | 631.2  |
| 17.5° | 4043.5  | 3432.5 | 2507.3 | 1495.5 | 819.5  | 688.1  | 632.6  | 594.7  | 564.9  | 552.7  | 550.0  |
| 20°   | 4346.9  | 3603.2 | 2371.9 | 1113.5 | 693.6  | 624.5  | 562.2  | 520.2  | 490.4  | 478.2  | 475.5  |
| 22.5° | 4661.1  | 3748.2 | 2133.5 | 816.8  | 623.1  | 554.0  | 493.1  | 451.1  | 422.6  | 411.8  | 406.4  |
| 25°   | 4967.3  | 3866.0 | 1800.3 | 661.0  | 556.7  | 487.7  | 429.4  | 390.1  | 364.4  | 353.5  | 352.2  |
| 27.5° | 5253.1  | 3940.5 | 1414.2 | 583.8  | 498.5  | 428.1  | 375.2  | 340.0  | 318.3  | 310.2  | 308.8  |
| 30°   | 5510.5  | 3947.3 | 1045.7 | 526.9  | 447.0  | 376.6  | 327.8  | 296.7  | 277.7  | 269.6  | 266.9  |
| 32.5° | 5770.6  | 3890.4 | 761.3  | 475.5  | 399.6  | 331.9  | 284.5  | 260.1  | 246.5  | 239.8  | 239.8  |
| 35°   | 6015.7  | 3759.0 | 593.3  | 430.8  | 353.5  | 288.5  | 250.6  | 233.0  | 224.9  | 218.1  | 218.1  |
| 37.5° | 6255.5  | 3570.7 | 503.9  | 391.5  | 310.2  | 252.0  | 220.8  | 210.0  | 203.2  | 196.4  | 196.4  |
| 40°   | 6499.3  | 3333.6 | 457.9  | 354.9  | 275.0  | 223.5  | 196.4  | 186.9  | 180.2  | 174.7  | 173.4  |
| 42.5° | 6798.7  | 3060.0 | 428.1  | 321.0  | 243.8  | 197.8  | 173.4  | 162.6  | 157.1  | 151.7  | 149.0  |
| 45°   | 7145.5  | 2824.3 | 403.7  | 287.2  | 218.1  | 176.1  | 150.4  | 139.5  | 131.4  | 124.6  | 123.3  |
| 47.5° | 7645.3  | 2653.6 | 371.2  | 250.6  | 193.7  | 153.1  | 130.0  | 117.8  | 105.7  | 98.9   | 97.5   |
| 50°   | 8283.3  | 2512.8 | 329.2  | 218.1  | 169.3  | 130.0  | 108.4  | 93.5   | 82.6   | 75.9   | 75.9   |
| 52.5° | 8600.3  | 2328.5 | 291.2  | 189.6  | 142.2  | 109.7  | 88.0   | 70.4   | 65.0   | 58.2   | 58.2   |
| 55°   | 8727.6  | 2187.7 | 253.3  | 161.2  | 117.8  | 90.8   | 69.1   | 54.2   | 50.1   | 46.1   | 44.7   |
| 57.5° | 9085.2  | 2147.0 | 220.8  | 136.8  | 97.5   | 71.8   | 52.8   | 40.6   | 37.9   | 32.5   | 32.5   |
| 60°   | 9660.9  | 2167.3 | 191.0  | 116.5  | 78.6   | 55.5   | 39.3   | 31.2   | 28.4   | 23.0   | 23.0   |
| 62.5° | 10282.7 | 2141.6 | 161.2  | 100.2  | 61.0   | 40.6   | 27.1   | 23.0   | 23.0   | 13.5   | 12.2   |
| 65°   | 10401.9 | 1907.3 | 138.2  | 82.6   | 47.4   | 29.8   | 17.6   | 14.9   | 20.3   | 2.7    | 0.0    |
| 67.5° | 9654.2  | 1479.2 | 119.2  | 63.7   | 35.2   | 23.0   | 13.5   | 6.8    | 17.6   | 0.0    | 0.0    |
| 70°   | 7719.8  | 940.1  | 96.2   | 46.1   | 27.1   | 19.0   | 10.8   | 2.7    | 13.5   | 0.0    | 0.0    |
| 72.5° | 5459.0  | 545.9  | 75.9   | 32.5   | 23.0   | 14.9   | 8.1    | 0.0    | 8.1    | 0.0    | 0.0    |
| 75°   | 2760.7  | 291.2  | 47.4   | 24.4   | 17.6   | 10.8   | 5.4    | 0.0    | 1.4    | 0.0    | 0.0    |
| 77.5° | 597.4   | 135.5  | 29.8   | 17.6   | 12.2   | 6.8    | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 130.0   | 59.6   | 19.0   | 10.8   | 6.8    | 4.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 47.4    | 31.2   | 9.5    | 5.4    | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 25.7    | 16.3   | 5.4    | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 13.5    | 5.4    | 1.4    | 1.4    | 0.0    | 0.0    | 0.0    | 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)