

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: P193658

Luminaire Tested: **GAN-AF-10-LED-U-SL3-8030-600-HSS**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P193658  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-10-LED-U-SL3-8030-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 27061 lumens  
Efficiency: N/A  
Efficacy: 83.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4

Input Watts (W): 323  
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: 28.75 FT

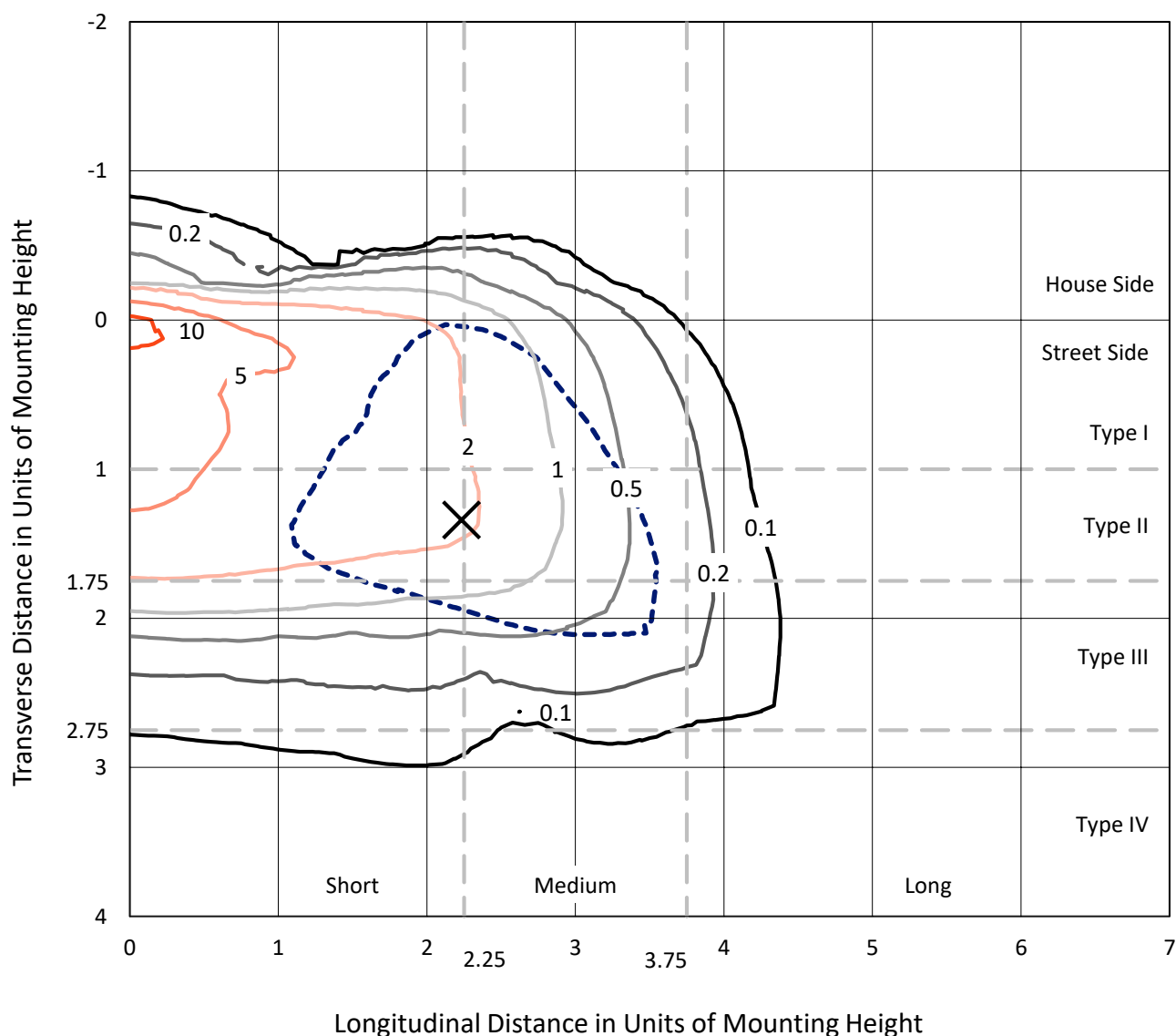


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

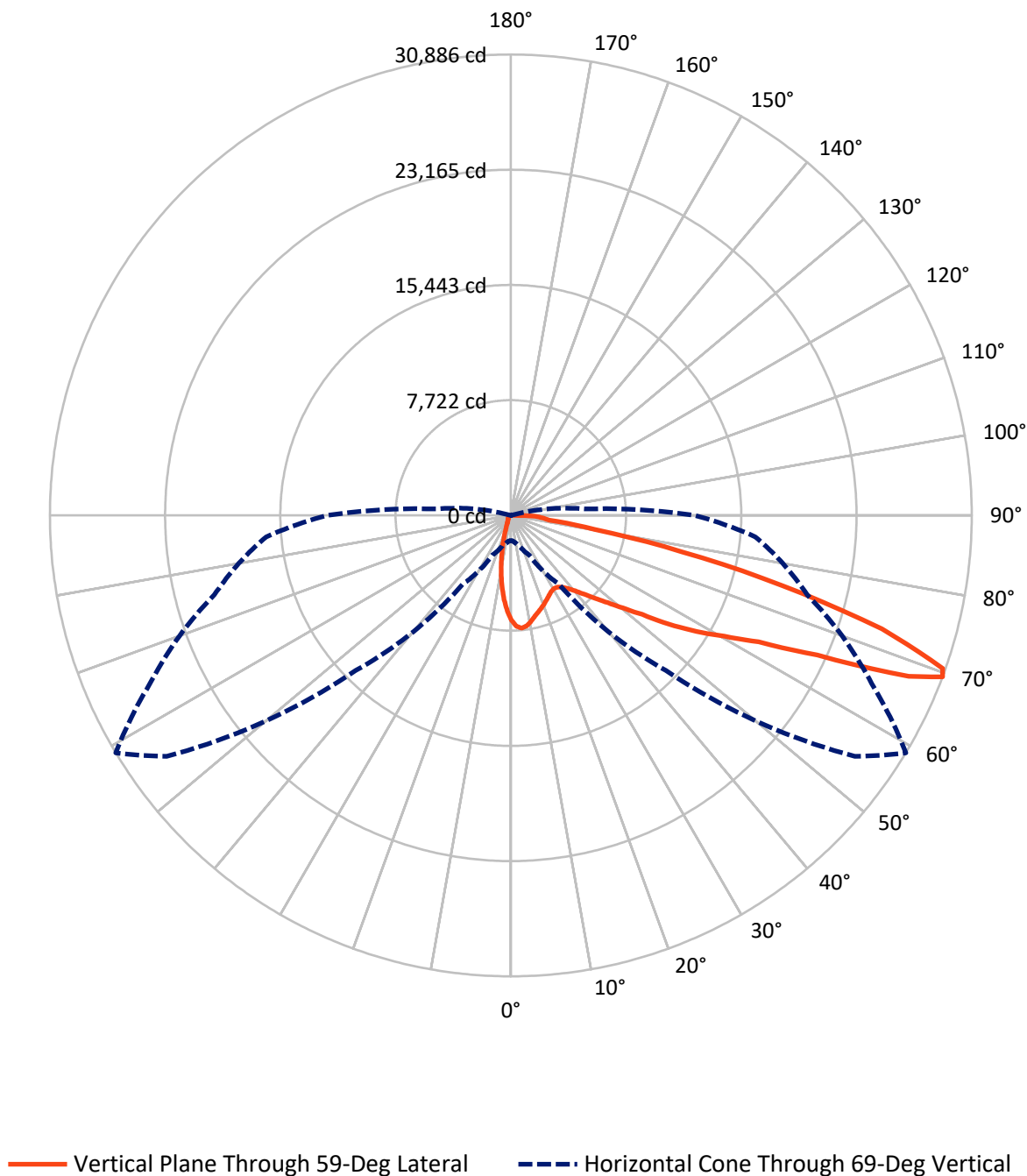


Based on 25 foot mounting height. Maximum calculated value = 11.3 fc  
 Type III - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2203.8   | 0.0    | 2203.8  |
|                    | % Fixture | 8.1      | 0.0    | 8.1     |
| <b>Street Side</b> | Lumens    | 24857.2  | 0.0    | 24857.2 |
|                    | % Fixture | 91.9     | 0.0    | 91.9    |
| <b>Total</b>       | Lumens    | 27061.0  | 0.0    | 27061.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 571.7   | 2.1       |
| 10°-20°   | 1181.4  | 4.4       |
| 20°-30°   | 1589.7  | 5.9       |
| 30°-40°   | 2308.1  | 8.5       |
| 40°-50°   | 3843.1  | 14.2      |
| 50°-60°   | 5995.2  | 22.2      |
| 60°-70°   | 7418.7  | 27.4      |
| 70°-80°   | 3759.7  | 13.9      |
| 80°-90°   | 393.4   | 1.5       |
| 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°    | 27061.0 | 100.0     |
| 0°-180°   | 27061.0 | 100.0     |

**Coefficient of Utilization**



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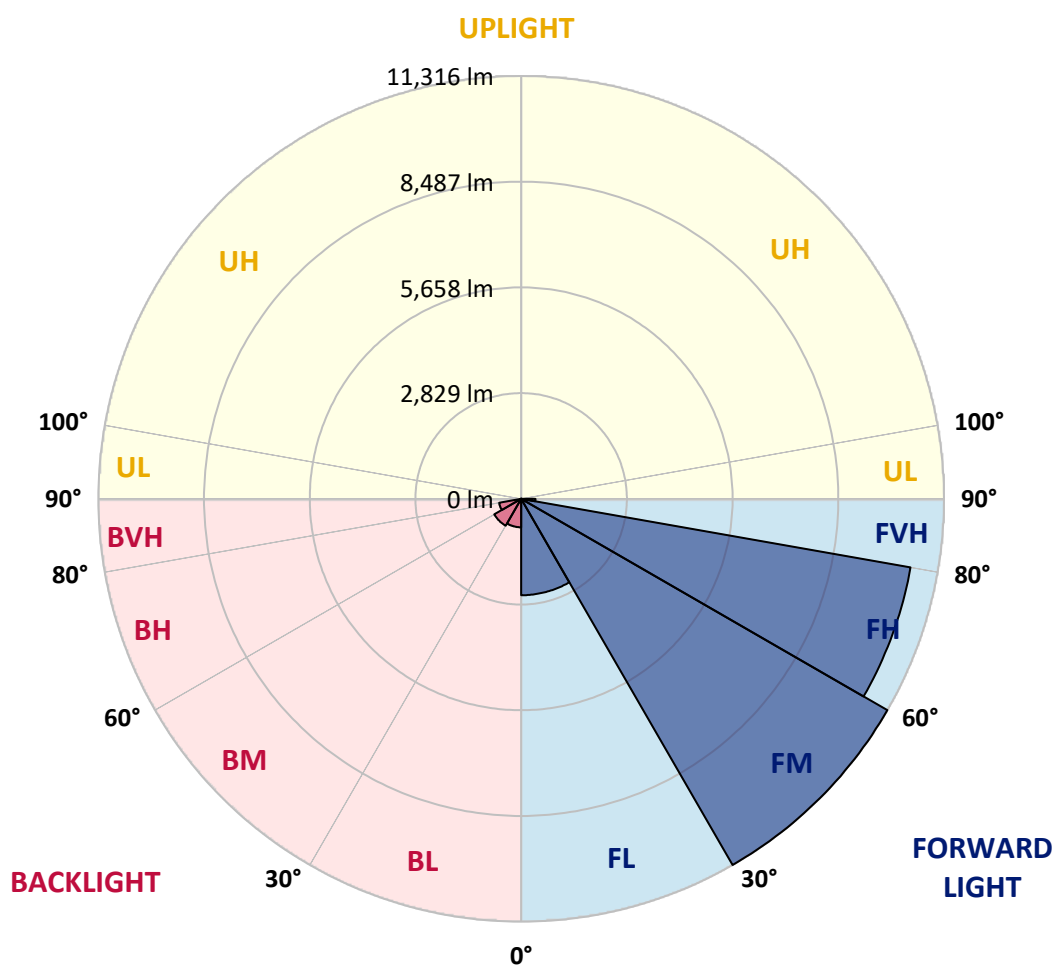
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2580.0  | 9.5       |                         |      |          |
| FM   | (30°-60°)   | 11316.1 | 41.8      |                         |      |          |
| FH   | (60°-80°)   | 10579.9 | 39.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 381.3   | 1.4       |                         |      | G3/500   |
| BL   | (0°-30°)    | 762.8   | 2.8       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 830.4   | 3.1       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 598.5   | 2.2       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 12.1    | 0.0       |                         |      | G1/100   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7043.6  | 7043.6  | 7043.6  | 7043.6  | 7043.6  | 7043.6  | 7043.6  | 7043.6  | 7043.6  | 7043.6  | 7043.6  |
| 2.5°  | 7720.0  | 7716.9  | 7683.2  | 7667.9  | 7640.4  | 7582.2  | 7492.0  | 7444.5  | 7368.0  | 7234.9  | 7055.8  |
| 5°    | 7649.6  | 7686.3  | 7706.2  | 7707.7  | 7727.6  | 7706.2  | 7625.1  | 7585.3  | 7479.7  | 7265.5  | 6944.1  |
| 7.5°  | 7172.1  | 7185.9  | 7242.5  | 7291.5  | 7386.4  | 7476.7  | 7505.7  | 7488.9  | 7426.2  | 7196.6  | 6769.7  |
| 10°   | 6661.0  | 6674.8  | 6742.2  | 6806.4  | 6935.0  | 7074.2  | 7221.1  | 7251.7  | 7277.7  | 7098.7  | 6601.4  |
| 12.5° | 6220.3  | 6234.1  | 6303.0  | 6387.1  | 6537.1  | 6708.5  | 6936.5  | 6987.0  | 7101.8  | 7005.3  | 6466.7  |
| 15°   | 5840.9  | 5847.0  | 5914.3  | 6018.4  | 6197.4  | 6417.7  | 6676.4  | 6757.5  | 6933.4  | 6939.5  | 6348.9  |
| 17.5° | 5518.0  | 5533.3  | 5574.6  | 5674.1  | 5869.9  | 6142.3  | 6443.8  | 6560.1  | 6766.6  | 6884.5  | 6234.1  |
| 20°   | 5320.6  | 5335.9  | 5334.3  | 5389.4  | 5565.4  | 5856.2  | 6211.2  | 6350.4  | 6601.4  | 6827.8  | 6131.6  |
| 22.5° | 5282.3  | 5282.3  | 5242.5  | 5234.9  | 5338.9  | 5582.2  | 5969.4  | 6139.2  | 6452.9  | 6803.4  | 6059.7  |
| 25°   | 5418.5  | 5412.4  | 5312.9  | 5231.8  | 5236.4  | 5381.8  | 5735.3  | 5937.3  | 6327.5  | 6820.2  | 6021.4  |
| 27.5° | 5706.2  | 5698.5  | 5573.1  | 5418.5  | 5294.6  | 5293.0  | 5557.8  | 5775.1  | 6228.0  | 6899.8  | 6036.7  |
| 30°   | 6104.0  | 6101.0  | 5964.8  | 5770.5  | 5545.5  | 5338.9  | 5496.6  | 5693.9  | 6163.7  | 7043.6  | 6071.9  |
| 32.5° | 6538.6  | 6534.0  | 6431.5  | 6226.5  | 5941.8  | 5545.5  | 5560.8  | 5726.1  | 6182.1  | 7234.9  | 6157.6  |
| 35°   | 6999.2  | 6991.6  | 6947.2  | 6768.2  | 6454.5  | 5926.5  | 5772.0  | 5900.5  | 6298.4  | 7521.0  | 6325.9  |
| 37.5° | 7498.1  | 7505.7  | 7537.9  | 7366.5  | 7037.5  | 6460.6  | 6125.5  | 6212.7  | 6532.5  | 7909.7  | 6599.8  |
| 40°   | 8234.1  | 8232.6  | 8243.3  | 8018.4  | 7701.6  | 7114.0  | 6619.7  | 6647.3  | 6924.2  | 8425.4  | 7016.1  |
| 42.5° | 9570.0  | 9476.7  | 9193.6  | 8734.5  | 8416.2  | 7860.7  | 7242.5  | 7213.5  | 7403.2  | 9063.5  | 7599.1  |
| 45°   | 11364.9 | 11166.0 | 10431.5 | 9551.6  | 9144.6  | 8702.4  | 8009.2  | 7915.8  | 8036.7  | 9830.1  | 8318.3  |
| 47.5° | 12908.9 | 12702.4 | 11663.3 | 10402.4 | 9917.4  | 9501.1  | 8907.4  | 8739.1  | 8778.9  | 10688.6 | 9230.3  |
| 50°   | 13433.8 | 13332.8 | 12425.4 | 11143.1 | 10665.6 | 10506.5 | 9949.5  | 9744.4  | 9687.8  | 11681.7 | 10287.7 |
| 52.5° | 13251.7 | 13244.1 | 12639.6 | 11623.6 | 11351.2 | 11547.0 | 11260.9 | 11023.7 | 10815.6 | 12728.4 | 11363.4 |
| 55°   | 12959.4 | 12997.7 | 12726.8 | 12044.4 | 12035.2 | 12497.3 | 13054.3 | 12856.9 | 12254.0 | 13865.3 | 12290.7 |
| 57.5° | 12153.0 | 12316.7 | 12677.9 | 12840.1 | 13216.5 | 13689.4 | 14547.8 | 14664.1 | 13951.0 | 14736.0 | 13060.4 |
| 60°   | 9860.7  | 10220.3 | 11401.7 | 12954.8 | 14739.1 | 15917.4 | 16350.4 | 16449.9 | 15343.5 | 15459.8 | 14099.5 |
| 62.5° | 6999.2  | 7366.5  | 8864.6  | 11492.0 | 14762.0 | 18844.7 | 19035.9 | 18645.7 | 16876.8 | 16532.5 | 15891.3 |
| 65°   | 3715.4  | 3998.5  | 5222.6  | 8295.3  | 12798.8 | 19524.1 | 23732.2 | 22569.2 | 19582.2 | 18642.7 | 18206.6 |
| 67.5° | 1900.5  | 1986.2  | 2472.8  | 4059.7  | 8798.8  | 17342.0 | 27941.8 | 28760.5 | 24244.8 | 20736.0 | 18094.9 |
| 69°   | 1681.7  | 1732.2  | 2055.1  | 2935.0  | 5634.3  | 14688.6 | 28146.9 | 30886.0 | 26685.5 | 20561.6 | 16443.7 |
| 70°   | 1628.2  | 1672.5  | 1966.3  | 2656.5  | 4404.0  | 12318.3 | 27361.9 | 30699.3 | 27309.8 | 19897.5 | 15210.4 |
| 72.5° | 1381.8  | 1420.0  | 1750.6  | 2347.4  | 3579.2  | 6114.8  | 22226.5 | 26013.7 | 24506.5 | 16575.3 | 11009.9 |
| 75°   | 924.3   | 1049.7  | 1680.2  | 2200.5  | 3329.8  | 3473.6  | 14653.4 | 18798.8 | 17462.9 | 11179.8 | 5735.3  |
| 77.5° | 221.9   | 238.7   | 474.4   | 1750.6  | 3045.1  | 3057.4  | 7536.3  | 11686.3 | 9531.7  | 3984.7  | 1355.8  |
| 80°   | 119.4   | 114.8   | 133.1   | 347.4   | 2835.5  | 2869.2  | 3392.5  | 5672.5  | 3403.2  | 661.1   | 446.8   |
| 82.5° | 84.2    | 79.6    | 85.7    | 145.4   | 892.1   | 2613.6  | 2454.5  | 2567.7  | 1410.9  | 254.0   | 200.5   |
| 85°   | 30.6    | 29.1    | 47.4    | 131.6   | 280.0   | 1502.7  | 2521.8  | 2117.8  | 1143.1  | 116.3   | 146.9   |
| 87.5° | 10.7    | 9.2     | 18.4    | 71.9    | 85.7    | 639.6   | 1556.2  | 1600.6  | 449.9   | 70.4    | 68.9    |
| 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°    | 7043.6  | 7043.6 | 7043.6 | 7043.6 | 7043.6 | 7043.6 | 7043.6 | 7043.6 | 7043.6 | 7043.6 | 7043.6 |
| 2.5°  | 6980.9  | 6886.0 | 6711.5 | 6532.5 | 6367.2 | 6168.3 | 6068.9 | 5970.9 | 5929.6 | 5914.3 | 5842.4 |
| 5°    | 6778.9  | 6618.2 | 6247.9 | 5876.0 | 5533.3 | 5169.1 | 4928.8 | 4736.0 | 4622.8 | 4567.7 | 4480.5 |
| 7.5°  | 6520.3  | 6257.1 | 5695.5 | 5121.6 | 4587.6 | 4061.2 | 3671.0 | 3371.1 | 3164.5 | 3065.0 | 2974.7 |
| 10°   | 6269.3  | 5918.9 | 5120.1 | 4338.2 | 3612.9 | 2915.1 | 2376.4 | 1986.2 | 1736.8 | 1622.0 | 1548.6 |
| 12.5° | 6044.4  | 5589.9 | 4564.6 | 3574.6 | 2664.1 | 1847.0 | 1299.2 | 988.5  | 834.0  | 780.4  | 754.4  |
| 15°   | 5843.9  | 5286.9 | 4039.8 | 2849.3 | 1804.1 | 1055.9 | 710.0  | 604.4  | 580.0  | 580.0  | 576.9  |
| 17.5° | 5654.2  | 4990.0 | 3533.3 | 2168.3 | 1132.4 | 645.8  | 540.2  | 526.4  | 526.4  | 532.5  | 532.5  |
| 20°   | 5472.1  | 4707.0 | 3043.6 | 1556.2 | 713.1  | 512.6  | 488.1  | 485.1  | 488.1  | 495.8  | 495.8  |
| 22.5° | 5316.0  | 4449.9 | 2586.1 | 1068.1 | 529.5  | 462.1  | 449.9  | 445.3  | 446.8  | 451.4  | 454.5  |
| 25°   | 5199.7  | 4232.6 | 2154.6 | 723.8  | 456.0  | 420.8  | 407.0  | 399.4  | 393.3  | 393.3  | 396.3  |
| 27.5° | 5126.2  | 4049.0 | 1736.8 | 526.4  | 410.1  | 382.6  | 361.1  | 348.9  | 335.1  | 327.5  | 330.5  |
| 30°   | 5072.7  | 3874.5 | 1345.1 | 430.0  | 367.3  | 339.7  | 312.2  | 292.3  | 272.4  | 263.2  | 266.3  |
| 32.5° | 5052.8  | 3733.7 | 1005.4 | 379.5  | 329.0  | 298.4  | 264.7  | 238.7  | 217.3  | 209.6  | 211.2  |
| 35°   | 5106.3  | 3622.0 | 736.0  | 342.8  | 298.4  | 260.1  | 221.9  | 192.8  | 176.0  | 171.4  | 172.9  |
| 37.5° | 5247.1  | 3562.4 | 550.9  | 312.2  | 270.8  | 228.0  | 185.2  | 157.6  | 146.9  | 146.9  | 148.4  |
| 40°   | 5513.4  | 3560.8 | 442.2  | 290.7  | 246.4  | 197.4  | 153.0  | 133.1  | 127.0  | 130.1  | 131.6  |
| 42.5° | 5902.1  | 3641.9 | 385.6  | 270.8  | 224.9  | 168.3  | 127.0  | 113.2  | 111.7  | 114.8  | 116.3  |
| 45°   | 6433.0  | 3790.4 | 355.0  | 254.0  | 202.0  | 140.8  | 107.1  | 97.9   | 97.9   | 102.5  | 104.1  |
| 47.5° | 7083.4  | 4007.6 | 329.0  | 237.2  | 179.0  | 117.8  | 91.8   | 85.7   | 87.2   | 91.8   | 93.3   |
| 50°   | 7866.9  | 4281.6 | 303.0  | 218.8  | 162.2  | 97.9   | 79.6   | 75.0   | 76.5   | 82.6   | 84.2   |
| 52.5° | 8759.0  | 4650.3 | 281.6  | 202.0  | 140.8  | 81.1   | 67.3   | 64.3   | 67.3   | 73.5   | 75.0   |
| 55°   | 9524.1  | 4980.9 | 255.5  | 188.2  | 113.2  | 67.3   | 55.1   | 55.1   | 58.1   | 65.8   | 67.3   |
| 57.5° | 10260.1 | 5326.7 | 232.6  | 162.2  | 88.8   | 53.6   | 45.9   | 47.4   | 52.0   | 59.7   | 61.2   |
| 60°   | 11340.5 | 5912.8 | 205.0  | 136.2  | 67.3   | 42.8   | 38.3   | 39.8   | 45.9   | 53.6   | 55.1   |
| 62.5° | 13175.2 | 6804.9 | 177.5  | 113.2  | 52.0   | 33.7   | 30.6   | 33.7   | 41.3   | 50.5   | 52.0   |
| 65°   | 14830.9 | 7167.6 | 145.4  | 94.9   | 39.8   | 26.0   | 26.0   | 30.6   | 39.8   | 49.0   | 50.5   |
| 67.5° | 13908.2 | 6033.7 | 113.2  | 75.0   | 30.6   | 19.9   | 21.4   | 29.1   | 38.3   | 49.0   | 50.5   |
| 69°   | 12299.9 | 4933.4 | 96.4   | 59.7   | 26.0   | 18.4   | 19.9   | 29.1   | 38.3   | 47.4   | 49.0   |
| 70°   | 11046.7 | 4165.3 | 85.7   | 50.5   | 23.0   | 18.4   | 19.9   | 27.5   | 38.3   | 47.4   | 49.0   |
| 72.5° | 7398.6  | 2249.4 | 68.9   | 36.7   | 21.4   | 16.8   | 16.8   | 27.5   | 36.7   | 45.9   | 47.4   |
| 75°   | 3179.8  | 621.3  | 55.1   | 26.0   | 18.4   | 15.3   | 15.3   | 26.0   | 35.2   | 44.4   | 47.4   |
| 77.5° | 581.5   | 157.6  | 44.4   | 23.0   | 18.4   | 15.3   | 13.8   | 24.5   | 33.7   | 42.8   | 44.4   |
| 80°   | 231.1   | 78.0   | 35.2   | 19.9   | 16.8   | 13.8   | 12.2   | 23.0   | 32.1   | 41.3   | 42.8   |
| 82.5° | 139.3   | 44.4   | 29.1   | 18.4   | 16.8   | 12.2   | 10.7   | 19.9   | 30.6   | 39.8   | 41.3   |
| 85°   | 113.2   | 30.6   | 23.0   | 18.4   | 15.3   | 12.2   | 9.2    | 18.4   | 27.5   | 38.3   | 39.8   |
| 87.5° | 55.1    | 21.4   | 21.4   | 16.8   | 15.3   | 12.2   | 9.2    | 16.8   | 26.0   | 36.7   | 38.3   |
| 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)