

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: P324924

Luminaire Tested: **GAN-SA0B-827-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324924  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0B-827-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34038 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 419  
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

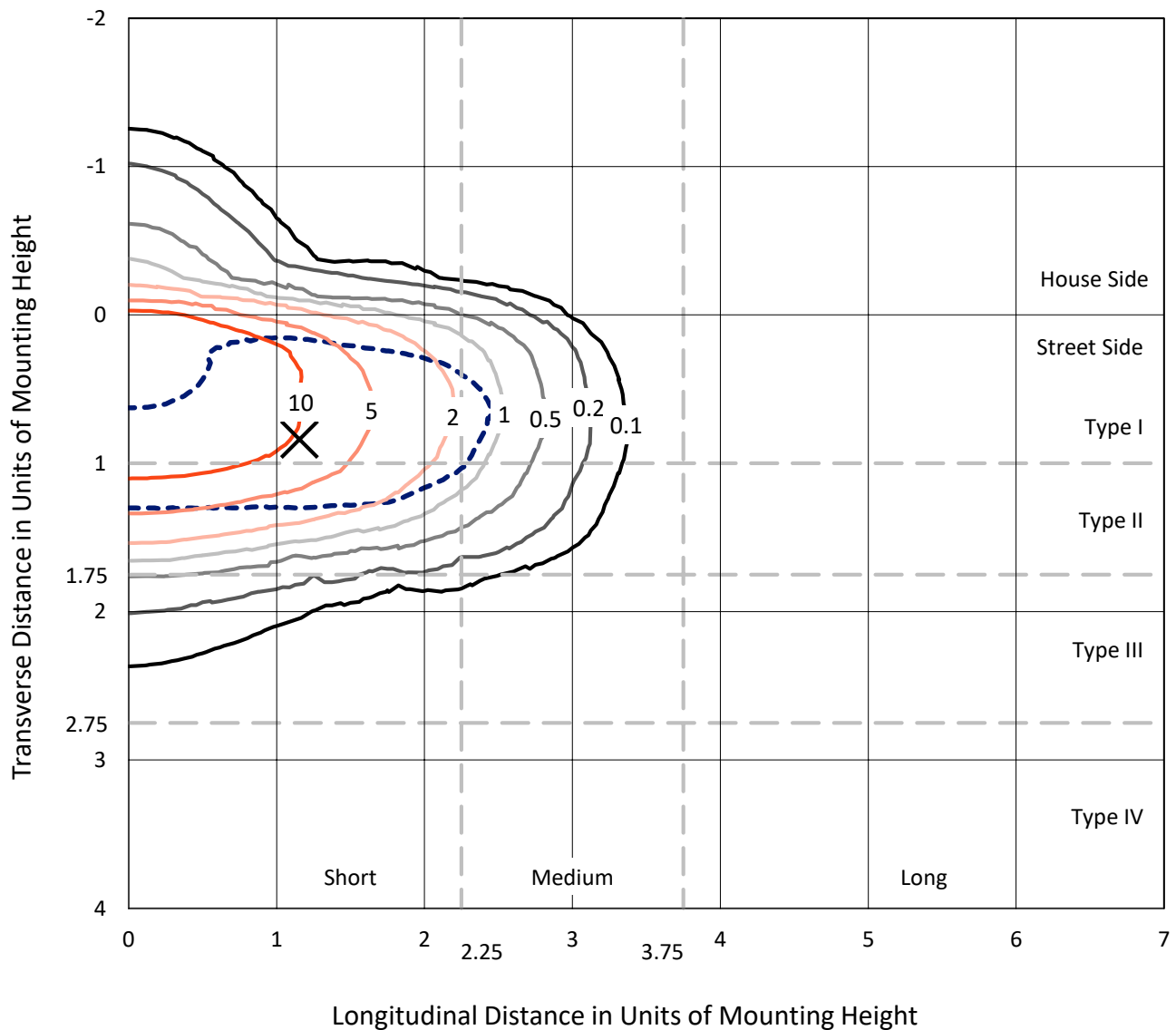


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## Iso-Footcandle Lines of Horizontal Illumination

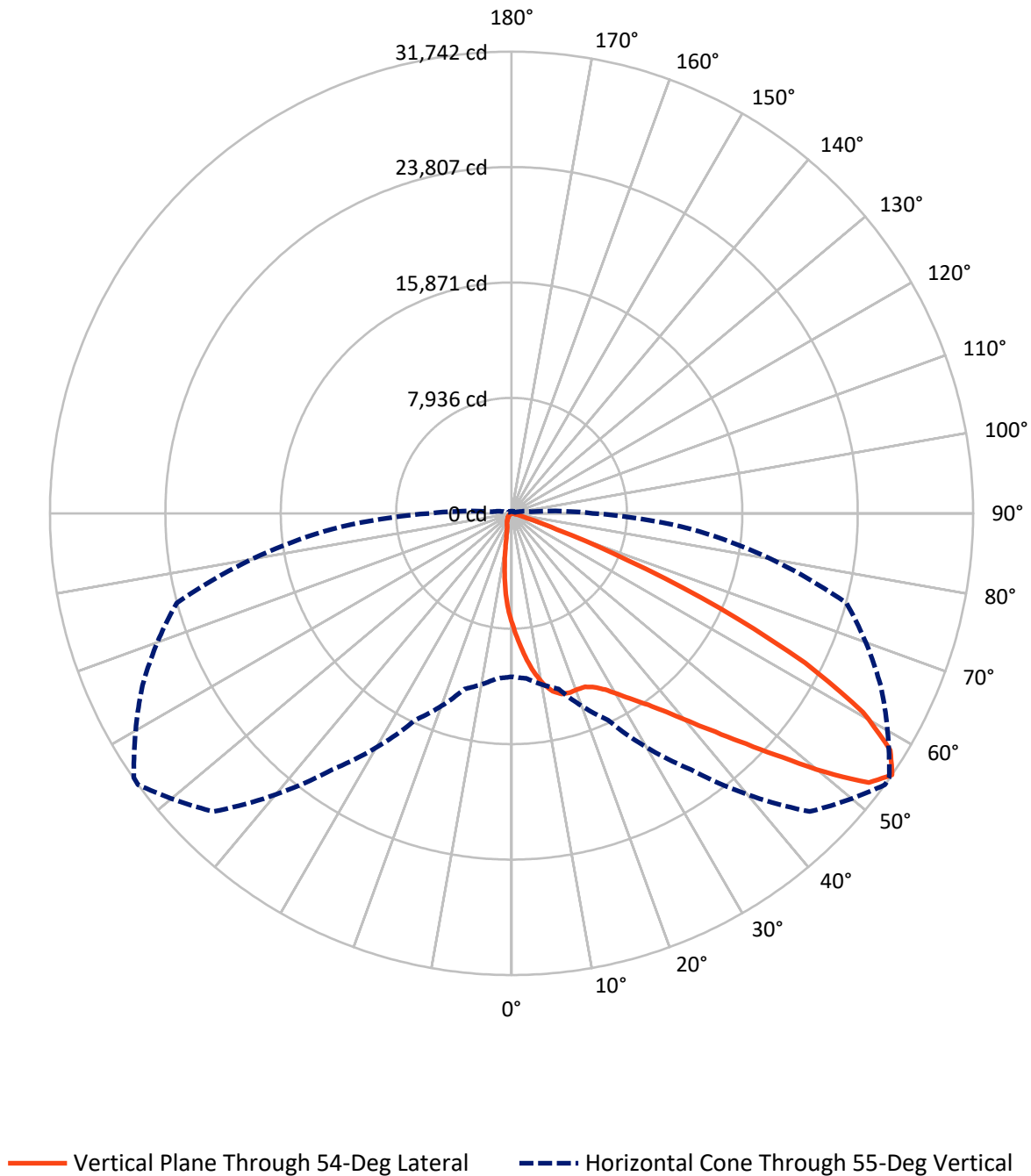
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 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    | 1698.2   | 0.0    | 1698.2  |
|                    | % Fixture | 5.0      | 0.0    | 5.0     |
| <b>Street Side</b> | Lumens    | 32339.8  | 0.0    | 32339.8 |
|                    | % Fixture | 95.0     | 0.0    | 95.0    |
| <b>Total</b>       | Lumens    | 34038.0  | 0.0    | 34038.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 702.0   | 2.1       |
| 10°-20°   | 1925.3  | 5.7       |
| 20°-30°   | 3287.1  | 9.7       |
| 30°-40°   | 5275.2  | 15.5      |
| 40°-50°   | 8429.8  | 24.8      |
| 50°-60°   | 9032.7  | 26.5      |
| 60°-70°   | 4637.7  | 13.6      |
| 70°-80°   | 702.5   | 2.1       |
| 80°-90°   | 45.7    | 0.1       |
| 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°    | 34038.0 | 100.0     |
| 0°-180°   | 34038.0 | 100.0     |

**Coefficient of Utilization**



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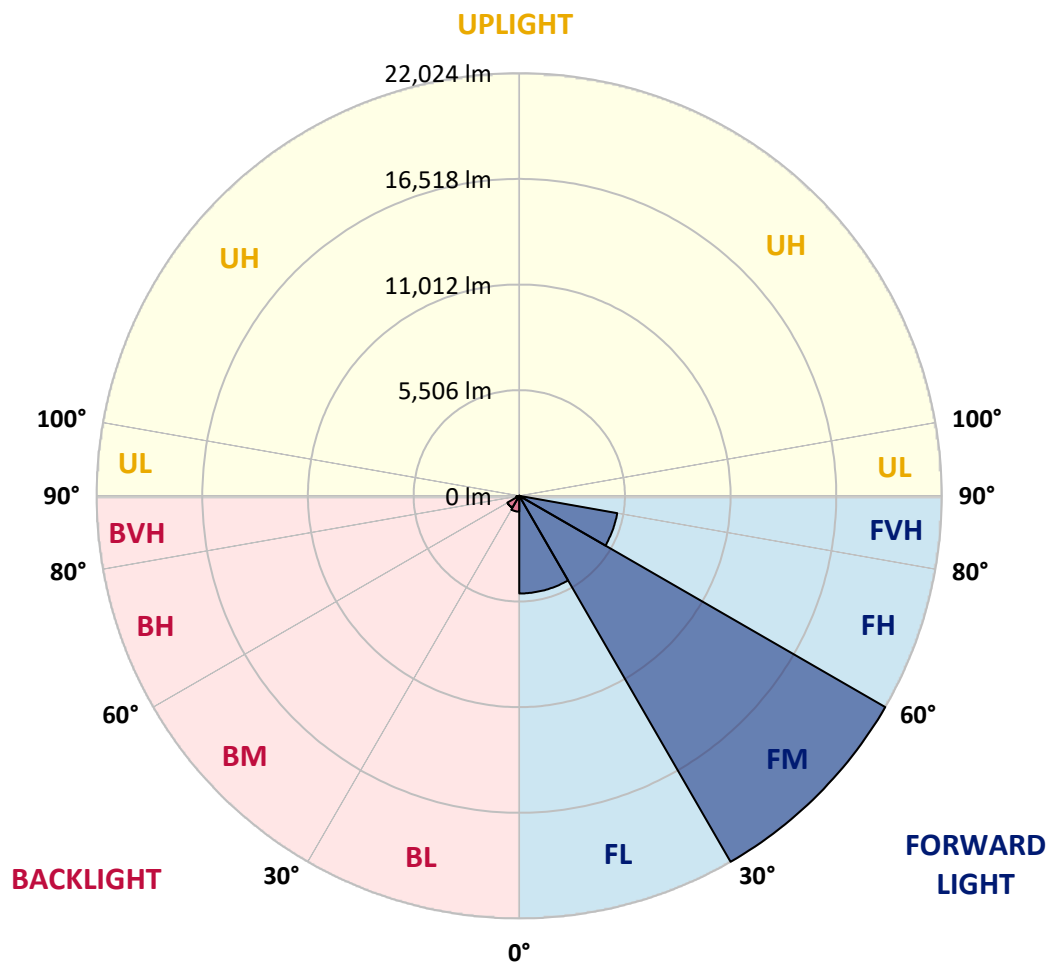
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 5088.1  | 14.9      |                         |      |         |
| FM   | (30°-60°)   | 22024.1 | 64.7      |                         |      |         |
| FH   | (60°-80°)   | 5183.7  | 15.2      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 43.9    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 826.3   | 2.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 713.6   | 2.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 156.5   | 0.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.8     | 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°     | 54°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7623.1  | 7623.1  | 7623.1  | 7623.1  | 7623.1  | 7623.1  | 7623.1  | 7623.1  | 7623.1  | 7623.1  | 7623.1  |
| 2.5°  | 9566.4  | 9423.8  | 9428.2  | 9363.6  | 9126.9  | 8941.7  | 8749.1  | 8703.6  | 8403.7  | 8089.1  | 7786.3  |
| 5°    | 11220.1 | 11115.7 | 11090.8 | 10965.8 | 10636.5 | 10288.2 | 9914.8  | 9828.1  | 9241.6  | 8597.7  | 7964.2  |
| 7.5°  | 12069.7 | 12071.2 | 12050.6 | 12005.1 | 11799.3 | 11461.2 | 11005.5 | 10914.4 | 10116.2 | 9150.4  | 8149.4  |
| 10°   | 11822.8 | 11878.6 | 11993.3 | 12144.7 | 12302.0 | 12259.4 | 11916.9 | 11834.5 | 10967.3 | 9735.5  | 8355.2  |
| 12.5° | 11246.6 | 11253.9 | 11381.8 | 11630.2 | 12083.0 | 12547.5 | 12553.3 | 12525.4 | 11780.2 | 10347.0 | 8581.6  |
| 15°   | 10959.9 | 10987.9 | 11034.9 | 11195.1 | 11624.3 | 12368.1 | 12900.3 | 12939.9 | 12525.4 | 10996.7 | 8822.6  |
| 17.5° | 11148.1 | 11187.8 | 11148.1 | 11167.2 | 11415.6 | 12084.4 | 12960.5 | 13062.0 | 13176.6 | 11639.0 | 9050.5  |
| 20°   | 11658.2 | 11694.9 | 11624.3 | 11546.4 | 11594.9 | 12002.1 | 12917.9 | 13054.6 | 13686.7 | 12209.4 | 9241.6  |
| 22.5° | 12346.1 | 12360.8 | 12253.5 | 12125.6 | 12090.3 | 12281.4 | 12953.2 | 13094.3 | 14095.3 | 12725.3 | 9362.1  |
| 25°   | 13103.1 | 13116.3 | 12982.6 | 12835.6 | 12751.8 | 12829.7 | 13242.8 | 13348.6 | 14455.5 | 13217.8 | 9431.2  |
| 27.5° | 13927.7 | 13939.5 | 13771.9 | 13591.1 | 13494.1 | 13497.1 | 13720.5 | 13833.7 | 14839.1 | 13779.3 | 9487.0  |
| 30°   | 14799.4 | 14793.5 | 14639.2 | 14387.8 | 14264.4 | 14261.4 | 14408.4 | 14523.1 | 15394.8 | 14499.6 | 9563.5  |
| 32.5° | 15778.4 | 15766.7 | 15547.6 | 15236.0 | 15096.4 | 15116.9 | 15247.8 | 15313.9 | 16084.2 | 15266.9 | 9700.2  |
| 35°   | 17067.6 | 17033.7 | 16703.0 | 16316.4 | 16059.2 | 16051.8 | 16162.1 | 16215.0 | 16963.2 | 16195.9 | 9928.0  |
| 37.5° | 18740.4 | 18709.5 | 18261.2 | 17699.6 | 17338.0 | 17202.8 | 17333.6 | 17401.2 | 18217.1 | 17388.0 | 10294.0 |
| 40°   | 20389.6 | 20358.8 | 20092.7 | 19578.2 | 19021.1 | 18696.3 | 18799.2 | 18871.2 | 19782.5 | 18834.4 | 10755.6 |
| 42.5° | 21527.4 | 21553.8 | 21646.4 | 21689.1 | 21167.2 | 20485.2 | 20532.2 | 20607.2 | 21427.4 | 20380.8 | 11283.3 |
| 45°   | 21827.2 | 21884.6 | 22407.9 | 23435.4 | 23630.9 | 23098.7 | 22606.3 | 22647.5 | 23098.7 | 21927.2 | 11811.0 |
| 47.5° | 20926.2 | 21032.0 | 22041.9 | 23952.8 | 25607.9 | 25984.3 | 25052.3 | 24997.9 | 24702.5 | 23178.1 | 12185.9 |
| 50°   | 18878.5 | 18975.5 | 20283.8 | 23110.5 | 26207.7 | 28738.9 | 27983.4 | 27823.2 | 26109.2 | 23926.3 | 12318.2 |
| 52.5° | 15915.1 | 16032.7 | 17095.5 | 20458.7 | 25077.3 | 29967.8 | 30758.6 | 30624.9 | 27141.1 | 23985.1 | 12340.2 |
| 55°   | 11239.2 | 11381.8 | 12506.3 | 15679.9 | 21495.0 | 28990.3 | 31742.0 | 31702.4 | 27998.1 | 23829.3 | 12387.2 |
| 57.5° | 6316.4  | 6419.3  | 7632.0  | 10051.5 | 15743.1 | 25250.8 | 30714.5 | 30977.7 | 28515.5 | 23558.8 | 12457.8 |
| 60°   | 2804.7  | 2832.6  | 3460.3  | 5003.7  | 9216.6  | 19297.5 | 27773.2 | 28217.1 | 28071.6 | 23197.2 | 12576.9 |
| 62.5° | 1555.2  | 1531.7  | 1531.7  | 2080.0  | 4005.6  | 11946.3 | 22647.5 | 23381.0 | 26176.8 | 22769.5 | 12582.7 |
| 65°   | 1218.6  | 1196.5  | 1133.3  | 1142.1  | 1525.8  | 5302.1  | 15682.9 | 16986.7 | 22578.4 | 21515.6 | 12159.4 |
| 67.5° | 1033.4  | 1014.3  | 951.1   | 926.1   | 948.1   | 1749.2  | 8616.8  | 9970.7  | 17132.2 | 18256.7 | 10532.2 |
| 70°   | 873.1   | 859.9   | 827.6   | 796.7   | 740.9   | 864.3   | 3297.1  | 4217.3  | 10557.2 | 12144.7 | 7189.5  |
| 72.5° | 702.6   | 696.8   | 708.5   | 682.1   | 614.4   | 576.2   | 1127.4  | 1365.6  | 4742.0  | 5419.7  | 2961.9  |
| 75°   | 605.6   | 602.7   | 608.6   | 582.1   | 505.7   | 401.3   | 573.3   | 626.2   | 1337.7  | 1325.9  | 599.7   |
| 77.5° | 393.9   | 398.4   | 504.2   | 492.4   | 435.1   | 267.5   | 296.9   | 320.4   | 405.7   | 304.3   | 182.3   |
| 80°   | 251.4   | 248.4   | 255.8   | 408.6   | 391.0   | 204.3   | 148.5   | 155.8   | 195.5   | 149.9   | 88.2    |
| 82.5° | 152.9   | 149.9   | 167.6   | 191.1   | 197.0   | 142.6   | 91.1    | 92.6    | 122.0   | 97.0    | 47.0    |
| 85°   | 13.2    | 17.6    | 101.4   | 94.1    | 67.6    | 44.1    | 44.1    | 47.0    | 64.7    | 57.3    | 26.5    |
| 87.5° | 0.0     | 0.0     | 17.6    | 26.5    | 14.7    | 16.2    | 16.2    | 17.6    | 25.0    | 25.0    | 13.2    |
| 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°    | 7623.1 | 7623.1 | 7623.1 | 7623.1 | 7623.1 | 7623.1 | 7623.1 | 7623.1 | 7623.1 | 7623.1 | 7623.1 |
| 2.5°  | 7629.0 | 7476.2 | 7167.5 | 6870.5 | 6619.2 | 6376.6 | 6100.3 | 5826.9 | 5699.0 | 5647.5 | 5594.6 |
| 5°    | 7642.3 | 7327.7 | 6691.2 | 6050.3 | 5385.9 | 4787.6 | 4277.5 | 3754.2 | 3492.6 | 3377.9 | 3325.0 |
| 7.5°  | 7659.9 | 7180.7 | 6151.7 | 5075.7 | 4005.6 | 3194.2 | 2485.7 | 2030.0 | 1833.0 | 1802.2 | 1725.7 |
| 10°   | 7662.8 | 7002.8 | 5525.5 | 3999.7 | 2685.6 | 1925.6 | 1481.7 | 1246.5 | 1159.8 | 1145.1 | 1120.1 |
| 12.5° | 7668.7 | 6792.6 | 4830.2 | 2961.9 | 1790.4 | 1287.7 | 1071.6 | 993.7  | 970.2  | 968.7  | 968.7  |
| 15°   | 7686.4 | 6572.1 | 4108.5 | 2134.4 | 1286.2 | 1020.1 | 940.8  | 909.9  | 901.1  | 905.5  | 904.0  |
| 17.5° | 7686.4 | 6312.0 | 3400.0 | 1590.5 | 1039.3 | 917.2  | 873.1  | 852.6  | 849.6  | 854.0  | 855.5  |
| 20°   | 7630.5 | 5995.9 | 2750.3 | 1237.7 | 921.7  | 851.1  | 811.4  | 792.3  | 785.0  | 787.9  | 789.4  |
| 22.5° | 7496.7 | 5607.8 | 2221.1 | 1024.6 | 843.7  | 790.8  | 748.2  | 718.8  | 707.0  | 708.5  | 708.5  |
| 25°   | 7288.0 | 5147.8 | 1737.5 | 886.4  | 780.5  | 726.2  | 676.2  | 642.4  | 635.0  | 633.5  | 636.5  |
| 27.5° | 7020.5 | 4639.2 | 1383.2 | 780.5  | 705.6  | 654.1  | 604.1  | 576.2  | 570.3  | 571.8  | 573.3  |
| 30°   | 6757.3 | 4111.4 | 1090.7 | 690.9  | 621.8  | 573.3  | 535.1  | 521.8  | 521.8  | 526.2  | 527.7  |
| 32.5° | 6516.3 | 3604.3 | 862.9  | 613.0  | 546.8  | 502.7  | 480.7  | 479.2  | 486.6  | 489.5  | 491.0  |
| 35°   | 6309.0 | 3135.4 | 714.4  | 552.7  | 488.0  | 449.8  | 442.5  | 448.3  | 457.2  | 463.0  | 464.5  |
| 37.5° | 6162.0 | 2716.5 | 624.7  | 502.7  | 442.5  | 411.6  | 410.1  | 421.9  | 433.6  | 446.9  | 449.8  |
| 40°   | 6100.3 | 2362.2 | 563.0  | 458.6  | 405.7  | 382.2  | 377.8  | 393.9  | 416.0  | 435.1  | 438.0  |
| 42.5° | 6048.8 | 2072.6 | 510.1  | 416.0  | 376.3  | 342.5  | 341.0  | 361.6  | 388.1  | 407.2  | 411.6  |
| 45°   | 6004.7 | 1840.4 | 461.6  | 370.4  | 338.1  | 294.0  | 298.4  | 324.9  | 345.4  | 366.0  | 370.4  |
| 47.5° | 5913.6 | 1649.3 | 408.6  | 321.9  | 279.3  | 251.4  | 260.2  | 283.7  | 299.9  | 330.7  | 335.1  |
| 50°   | 5750.4 | 1493.5 | 354.3  | 263.1  | 227.8  | 217.6  | 230.8  | 247.0  | 267.5  | 294.0  | 296.9  |
| 52.5° | 5640.2 | 1375.9 | 307.2  | 220.5  | 188.2  | 191.1  | 204.3  | 210.2  | 222.0  | 232.3  | 229.3  |
| 55°   | 5577.0 | 1311.2 | 269.0  | 191.1  | 160.2  | 169.0  | 172.0  | 164.6  | 158.8  | 148.5  | 144.1  |
| 57.5° | 5569.6 | 1252.4 | 239.6  | 166.1  | 141.1  | 145.5  | 135.2  | 110.2  | 89.7   | 77.9   | 75.0   |
| 60°   | 5557.9 | 1180.4 | 216.1  | 139.6  | 124.9  | 119.1  | 97.0   | 60.3   | 42.6   | 39.7   | 39.7   |
| 62.5° | 5430.0 | 1068.7 | 198.4  | 117.6  | 105.8  | 89.7   | 55.9   | 27.9   | 23.5   | 25.0   | 25.0   |
| 65°   | 5022.8 | 912.8  | 180.8  | 95.5   | 83.8   | 64.7   | 27.9   | 16.2   | 8.8    | 10.3   | 10.3   |
| 67.5° | 4270.2 | 727.6  | 161.7  | 73.5   | 63.2   | 41.2   | 16.2   | 7.3    | 0.0    | 0.0    | 0.0    |
| 70°   | 2859.0 | 451.3  | 136.7  | 51.4   | 41.2   | 25.0   | 11.8   | 1.5    | 0.0    | 0.0    | 0.0    |
| 72.5° | 1096.6 | 244.0  | 110.2  | 30.9   | 26.5   | 17.6   | 7.3    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 247.0  | 160.2  | 76.4   | 22.0   | 19.1   | 11.8   | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 94.1   | 116.1  | 44.1   | 14.7   | 13.2   | 7.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 45.6   | 69.1   | 20.6   | 8.8    | 7.3    | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 23.5   | 26.5   | 8.8    | 4.4    | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 13.2   | 13.2   | 4.4    | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 7.3    | 4.4    | 1.5    | 1.5    | 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)