

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: P193295

Luminaire Tested: **GAN-AF-07-LED-U-T4W-7030-600**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P193295  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-07-LED-U-T4W-7030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 26641.8 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 226  
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

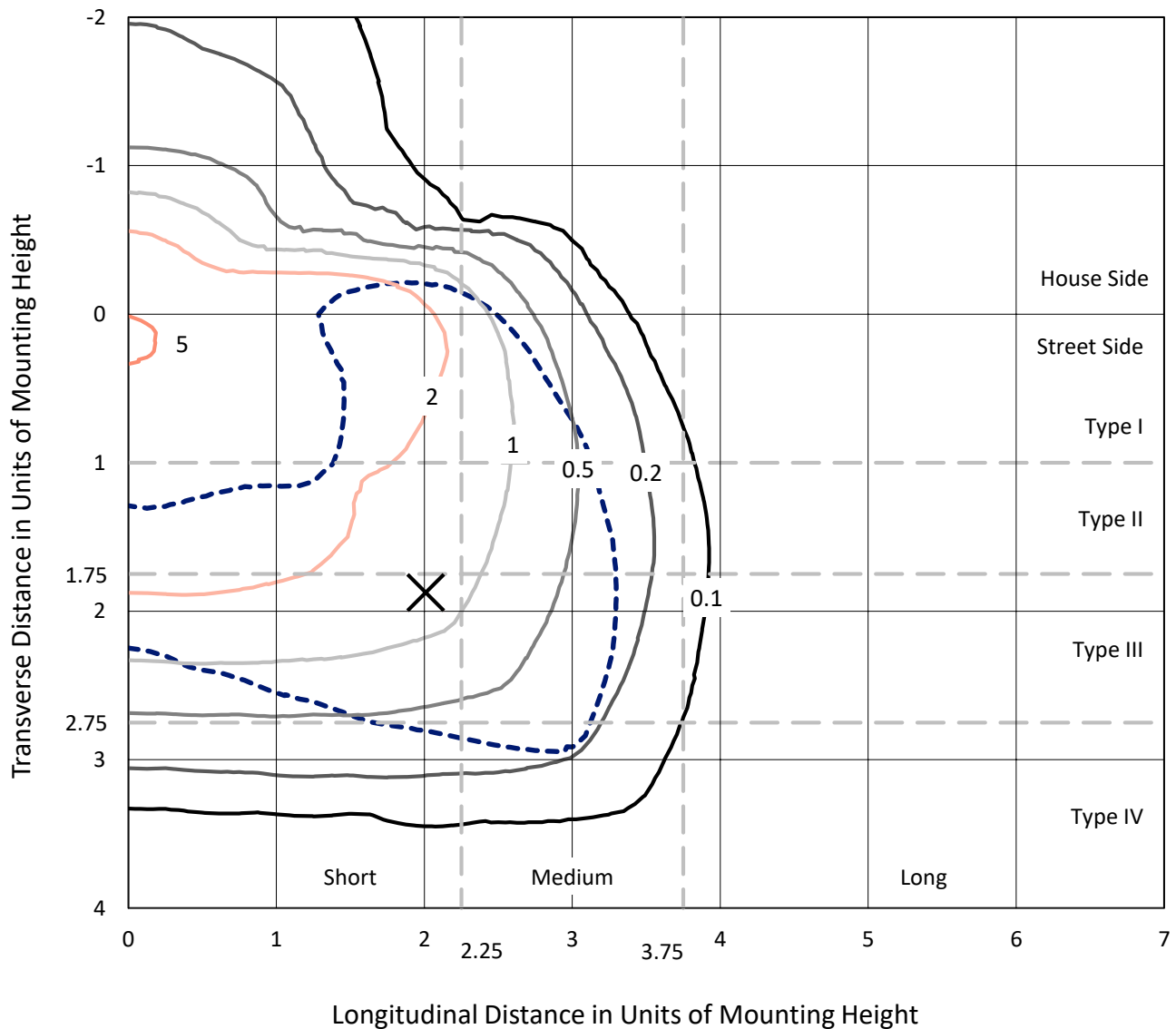


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

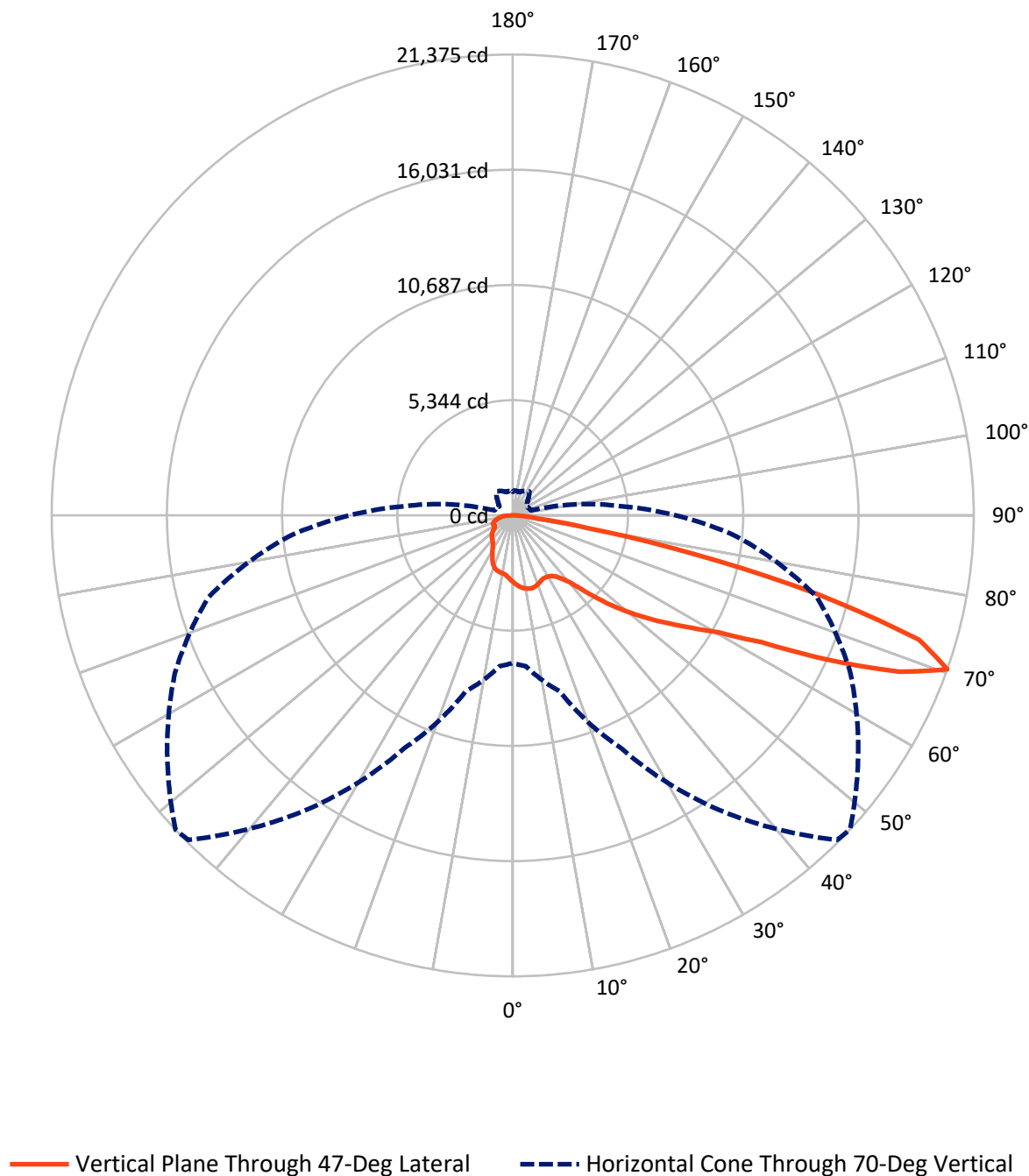


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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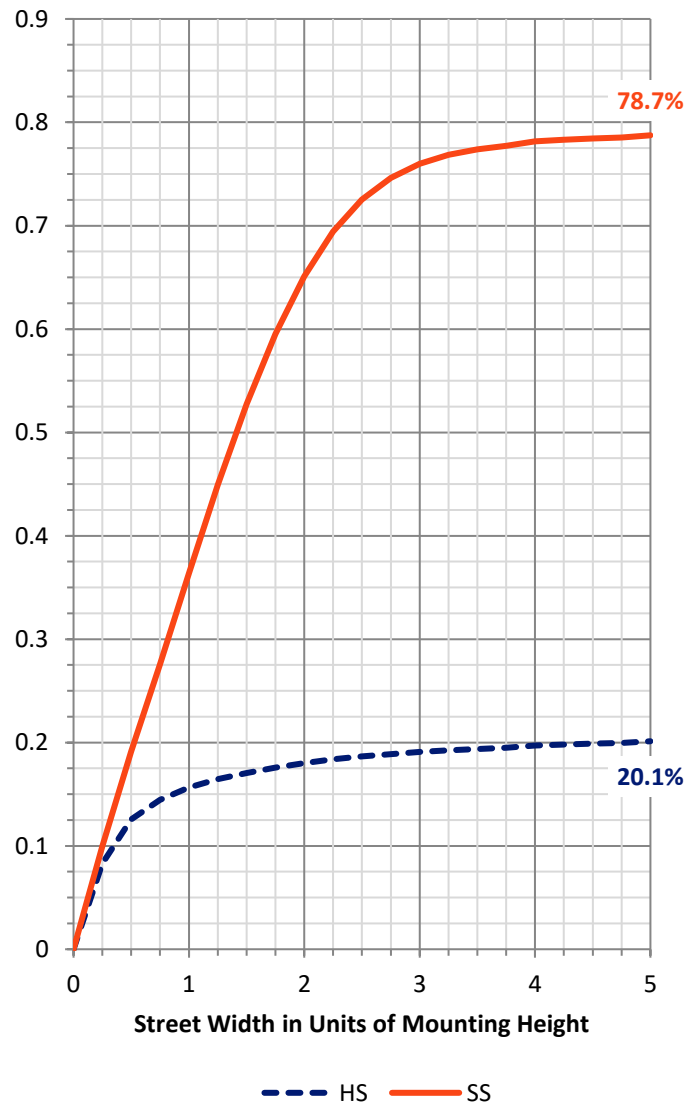
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5558.0   | 0.0    | 5558.0  |
|                    | % Fixture | 20.9     | 0.0    | 20.9    |
| <b>Street Side</b> | Lumens    | 21083.8  | 0.0    | 21083.8 |
|                    | % Fixture | 79.1     | 0.0    | 79.1    |
| <b>Total</b>       | Lumens    | 26641.8  | 0.0    | 26641.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 296.2   | 1.1       |
| 10°-20°   | 869.0   | 3.3       |
| 20°-30°   | 1283.2  | 4.8       |
| 30°-40°   | 1865.1  | 7.0       |
| 40°-50°   | 3356.6  | 12.6      |
| 50°-60°   | 5815.0  | 21.8      |
| 60°-70°   | 8299.6  | 31.2      |
| 70°-80°   | 4260.6  | 16.0      |
| 80°-90°   | 596.5   | 2.2       |
| 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°    | 26641.8 | 100.0     |
| 0°-180°   | 26641.8 | 100.0     |

**Coefficient of Utilization**



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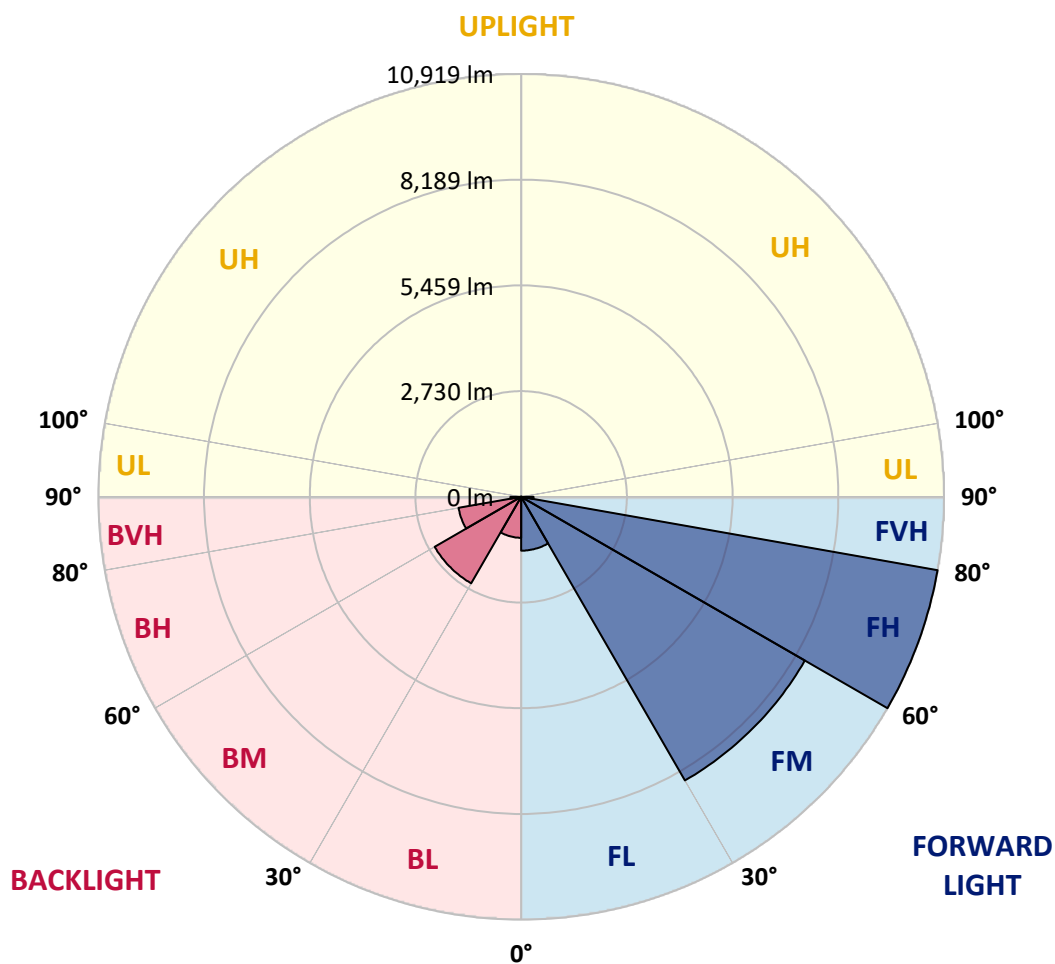
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1390.1  | 5.2       |                         |      |          |
| FM   | (30°-60°)   | 8456.8  | 31.7      |                         |      |          |
| FH   | (60°-80°)   | 10918.5 | 41.0      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 318.3   | 1.2       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1058.3  | 4.0       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2579.8  | 9.7       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1641.7  | 6.2       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 278.2   | 1.0       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 47°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3091.3  | 3091.3  | 3091.3  | 3091.3  | 3091.3  | 3091.3  | 3091.3  | 3091.3  | 3091.3  | 3091.3  | 3091.3  |
| 2.5°  | 3272.8  | 3266.3  | 3263.7  | 3258.4  | 3252.0  | 3219.6  | 3213.1  | 3189.9  | 3157.4  | 3123.7  | 3088.6  |
| 5°    | 3487.9  | 3486.6  | 3472.4  | 3446.4  | 3404.9  | 3333.6  | 3316.8  | 3259.7  | 3183.3  | 3109.4  | 3035.5  |
| 7.5°  | 3677.1  | 3665.4  | 3638.3  | 3586.4  | 3513.8  | 3416.6  | 3393.3  | 3314.2  | 3209.3  | 3108.1  | 3008.4  |
| 10°   | 3815.8  | 3809.4  | 3749.7  | 3678.4  | 3583.8  | 3476.2  | 3449.0  | 3361.0  | 3245.5  | 3117.1  | 2992.7  |
| 12.5° | 3894.9  | 3881.9  | 3813.2  | 3727.7  | 3615.0  | 3510.0  | 3482.7  | 3393.3  | 3263.7  | 3117.1  | 2970.8  |
| 15°   | 3889.7  | 3880.7  | 3811.9  | 3718.6  | 3604.6  | 3512.4  | 3487.9  | 3398.5  | 3259.7  | 3104.3  | 2942.3  |
| 17.5° | 3786.1  | 3789.8  | 3731.5  | 3639.5  | 3546.2  | 3476.2  | 3454.2  | 3371.2  | 3233.8  | 3078.3  | 2908.5  |
| 20°   | 3604.6  | 3622.7  | 3583.8  | 3502.2  | 3450.3  | 3402.4  | 3388.1  | 3318.1  | 3193.6  | 3040.6  | 2872.2  |
| 22.5° | 3423.1  | 3439.9  | 3424.4  | 3355.7  | 3347.9  | 3319.4  | 3311.6  | 3261.1  | 3158.6  | 3017.4  | 2850.2  |
| 25°   | 3289.6  | 3305.1  | 3302.6  | 3243.0  | 3266.3  | 3265.0  | 3258.4  | 3233.8  | 3150.9  | 3017.4  | 2854.1  |
| 27.5° | 3253.3  | 3258.4  | 3253.3  | 3198.9  | 3231.3  | 3257.1  | 3252.0  | 3248.1  | 3174.2  | 3055.0  | 2903.3  |
| 30°   | 3377.7  | 3370.0  | 3329.7  | 3219.6  | 3249.4  | 3285.7  | 3280.5  | 3283.1  | 3244.2  | 3153.4  | 3013.5  |
| 32.5° | 3874.2  | 3839.2  | 3712.1  | 3402.4  | 3323.2  | 3342.7  | 3345.3  | 3388.1  | 3394.5  | 3305.1  | 3184.6  |
| 35°   | 4616.9  | 4578.0  | 4413.3  | 3892.3  | 3552.7  | 3485.3  | 3485.3  | 3550.1  | 3588.9  | 3522.8  | 3450.3  |
| 37.5° | 5403.5  | 5360.8  | 5272.7  | 4571.4  | 4034.8  | 3732.9  | 3726.4  | 3771.7  | 3827.5  | 3843.0  | 3861.2  |
| 40°   | 6297.9  | 6252.6  | 6277.2  | 5333.6  | 4707.6  | 4161.9  | 4069.9  | 4037.4  | 4187.8  | 4287.6  | 4432.7  |
| 42.5° | 7276.4  | 7255.8  | 7264.8  | 6182.6  | 5473.6  | 4803.5  | 4672.6  | 4505.3  | 4686.7  | 4864.3  | 5168.9  |
| 45°   | 8182.5  | 8200.7  | 8191.6  | 7091.2  | 6326.4  | 5586.3  | 5447.6  | 5123.6  | 5301.2  | 5605.8  | 6102.2  |
| 47.5° | 8975.7  | 8900.6  | 9017.1  | 8084.0  | 7281.7  | 6462.4  | 6291.4  | 5857.2  | 6037.3  | 6413.3  | 7253.1  |
| 50°   | 9938.8  | 9928.4  | 9757.3  | 9408.7  | 8436.6  | 7342.6  | 7118.4  | 6615.4  | 6895.5  | 7417.7  | 8703.5  |
| 52.5° | 10951.0 | 10763.1 | 10606.3 | 10439.0 | 9661.4  | 8244.7  | 7969.9  | 7371.0  | 7903.9  | 8560.9  | 10471.4 |
| 55°   | 11158.4 | 11074.2 | 11268.6 | 11549.8 | 10842.2 | 9181.8  | 8861.7  | 8318.6  | 9039.2  | 9867.4  | 12510.3 |
| 57.5° | 11601.7 | 11600.4 | 12002.2 | 12503.7 | 12058.0 | 10176.0 | 9853.2  | 9463.1  | 10315.9 | 11364.5 | 14674.8 |
| 60°   | 11901.1 | 11985.3 | 12731.9 | 13705.3 | 13251.6 | 11324.2 | 11027.5 | 10783.8 | 11767.6 | 13037.8 | 16691.6 |
| 62.5° | 12058.0 | 12172.0 | 13190.8 | 14192.7 | 14939.2 | 13236.1 | 12939.2 | 12588.1 | 13688.4 | 14873.1 | 17871.1 |
| 65°   | 11406.0 | 11630.2 | 13119.5 | 14613.9 | 16416.9 | 16335.2 | 16201.6 | 15584.7 | 16090.2 | 16323.5 | 17444.7 |
| 67.5° | 9601.7  | 9831.1  | 11565.4 | 14221.1 | 17471.8 | 19324.0 | 19352.5 | 18298.8 | 17567.8 | 16447.9 | 14667.1 |
| 70°   | 6840.9  | 7021.1  | 8456.0  | 11923.1 | 16668.3 | 21277.2 | 21374.5 | 19549.5 | 17273.6 | 14586.6 | 10247.2 |
| 72.5° | 3248.1  | 3358.3  | 4716.6  | 7759.9  | 13227.0 | 19495.1 | 19683.0 | 17952.7 | 14687.7 | 10799.4 | 5590.2  |
| 75°   | 1193.7  | 1227.4  | 1594.2  | 3301.3  | 7671.8  | 14376.7 | 14598.3 | 12869.3 | 9736.5  | 5376.3  | 2129.6  |
| 77.5° | 715.4   | 737.5   | 894.3   | 1393.4  | 3017.4  | 8217.5  | 8545.3  | 6999.1  | 4255.2  | 2001.2  | 1047.2  |
| 80°   | 500.3   | 515.8   | 641.6   | 867.1   | 1425.8  | 3131.5  | 3423.1  | 2856.7  | 1695.3  | 1266.4  | 762.1   |
| 82.5° | 338.2   | 346.1   | 451.0   | 585.8   | 947.5   | 1118.6  | 1206.7  | 1270.2  | 1143.2  | 942.3   | 483.5   |
| 85°   | 221.7   | 229.5   | 305.9   | 386.2   | 602.7   | 578.1   | 591.0   | 747.9   | 834.7   | 640.3   | 268.3   |
| 87.5° | 127.1   | 132.2   | 184.1   | 206.1   | 295.5   | 245.0   | 247.6   | 394.0   | 534.1   | 431.6   | 163.4   |
| 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°    | 3091.3  | 3091.3  | 3091.3 | 3091.3 | 3091.3 | 3091.3 | 3091.3 | 3091.3 | 3091.3 | 3091.3 | 3091.3 |
| 2.5°  | 3079.6  | 3062.7  | 3025.2 | 3001.8 | 2979.8 | 2974.6 | 2965.6 | 2964.2 | 2963.0 | 2963.0 | 2959.1 |
| 5°    | 3010.9  | 2982.4  | 2924.1 | 2891.6 | 2864.4 | 2861.8 | 2860.5 | 2867.1 | 2869.5 | 2872.2 | 2868.4 |
| 7.5°  | 2966.8  | 2927.9  | 2855.4 | 2808.7 | 2776.3 | 2768.5 | 2781.5 | 2811.3 | 2830.8 | 2838.5 | 2834.6 |
| 10°   | 2939.6  | 2891.6  | 2807.4 | 2756.8 | 2729.7 | 2725.8 | 2742.6 | 2777.6 | 2817.8 | 2833.3 | 2832.0 |
| 12.5° | 2908.5  | 2854.1  | 2764.7 | 2711.5 | 2696.0 | 2703.7 | 2725.8 | 2758.1 | 2799.7 | 2824.3 | 2825.6 |
| 15°   | 2877.5  | 2813.9  | 2721.8 | 2675.2 | 2668.7 | 2679.1 | 2699.8 | 2724.5 | 2756.8 | 2781.5 | 2784.2 |
| 17.5° | 2839.8  | 2773.8  | 2681.7 | 2633.7 | 2628.6 | 2633.7 | 2635.0 | 2648.0 | 2668.7 | 2692.0 | 2698.6 |
| 20°   | 2799.7  | 2732.2  | 2636.3 | 2588.4 | 2565.1 | 2544.3 | 2520.9 | 2523.6 | 2530.0 | 2553.4 | 2558.6 |
| 22.5° | 2771.2  | 2703.7  | 2601.4 | 2535.3 | 2473.0 | 2410.8 | 2364.2 | 2357.7 | 2360.2 | 2379.6 | 2386.2 |
| 25°   | 2773.8  | 2702.4  | 2592.2 | 2478.2 | 2342.1 | 2242.3 | 2180.0 | 2169.8 | 2168.5 | 2182.7 | 2191.7 |
| 27.5° | 2824.3  | 2753.0  | 2625.9 | 2419.9 | 2199.5 | 2051.8 | 1985.7 | 1977.9 | 1967.5 | 1971.4 | 1981.8 |
| 30°   | 2937.0  | 2870.9  | 2707.7 | 2360.2 | 2045.4 | 1865.2 | 1796.4 | 1788.7 | 1774.4 | 1768.0 | 1775.7 |
| 32.5° | 3121.1  | 3066.7  | 2826.9 | 2303.1 | 1891.1 | 1705.7 | 1635.7 | 1618.9 | 1609.8 | 1602.1 | 1608.6 |
| 35°   | 3427.0  | 3403.7  | 2986.3 | 2241.0 | 1754.9 | 1582.6 | 1519.0 | 1493.1 | 1480.1 | 1494.4 | 1504.8 |
| 37.5° | 3906.6  | 3919.4  | 3195.0 | 2143.7 | 1650.0 | 1500.9 | 1447.8 | 1417.9 | 1398.5 | 1410.2 | 1421.9 |
| 40°   | 4585.7  | 4594.8  | 3425.8 | 2006.4 | 1559.2 | 1452.9 | 1395.9 | 1368.7 | 1341.4 | 1320.7 | 1319.5 |
| 42.5° | 5477.5  | 5385.4  | 3652.5 | 1857.4 | 1454.2 | 1423.1 | 1359.6 | 1326.0 | 1284.5 | 1227.4 | 1215.7 |
| 45°   | 6535.2  | 6212.4  | 3824.8 | 1686.3 | 1336.4 | 1386.8 | 1319.5 | 1272.8 | 1208.0 | 1145.8 | 1139.2 |
| 47.5° | 7753.5  | 7100.2  | 3909.2 | 1508.7 | 1226.1 | 1333.7 | 1270.2 | 1196.3 | 1114.7 | 1083.6 | 1079.7 |
| 50°   | 9241.4  | 8154.0  | 3949.2 | 1336.4 | 1130.2 | 1263.7 | 1198.9 | 1112.0 | 1043.4 | 1036.9 | 1033.0 |
| 52.5° | 10935.4 | 9421.5  | 3962.3 | 1195.1 | 1051.2 | 1173.0 | 1140.5 | 1056.3 | 1001.9 | 1007.1 | 1007.1 |
| 55°   | 12708.6 | 10730.7 | 3786.1 | 1092.6 | 978.5  | 1079.7 | 1101.7 | 1034.3 | 988.9  | 1009.7 | 1017.4 |
| 57.5° | 14336.6 | 11890.6 | 3231.3 | 1013.6 | 909.9  | 1008.4 | 1087.4 | 1055.0 | 1024.0 | 1108.2 | 1113.4 |
| 60°   | 15586.0 | 12576.4 | 2413.4 | 942.3  | 859.4  | 983.8  | 1125.1 | 1134.1 | 1141.9 | 1342.8 | 1370.0 |
| 62.5° | 15847.8 | 12348.3 | 1659.1 | 886.5  | 836.1  | 1004.5 | 1193.7 | 1195.1 | 1186.0 | 1326.0 | 1342.8 |
| 65°   | 14646.3 | 10905.6 | 1206.7 | 855.5  | 816.6  | 1042.2 | 1252.1 | 1224.8 | 1165.2 | 1271.6 | 1240.4 |
| 67.5° | 11631.5 | 8216.2  | 1004.5 | 832.1  | 788.1  | 1039.5 | 1314.3 | 1252.1 | 1153.6 | 1245.5 | 1195.1 |
| 70°   | 7550.0  | 4968.1  | 894.3  | 812.7  | 754.3  | 990.2  | 1350.6 | 1249.5 | 1119.9 | 1158.7 | 1099.1 |
| 72.5° | 3683.5  | 2221.6  | 820.4  | 784.2  | 719.4  | 921.6  | 1349.3 | 1226.1 | 1084.8 | 1082.3 | 1049.9 |
| 75°   | 1441.3  | 1017.4  | 753.1  | 741.5  | 659.7  | 843.8  | 1313.0 | 1192.4 | 1043.4 | 1001.9 | 990.2  |
| 77.5° | 843.8   | 725.8   | 667.5  | 677.9  | 588.5  | 766.0  | 1259.9 | 1134.1 | 986.4  | 937.1  | 924.2  |
| 80°   | 614.4   | 543.1   | 569.0  | 585.8  | 502.9  | 688.3  | 1188.5 | 1062.9 | 922.8  | 947.5  | 929.4  |
| 82.5° | 394.0   | 349.9   | 461.4  | 478.2  | 418.7  | 609.2  | 1110.8 | 987.7  | 833.4  | 756.9  | 738.8  |
| 85°   | 200.9   | 221.7   | 343.5  | 364.2  | 322.8  | 500.3  | 1016.2 | 887.8  | 732.4  | 629.9  | 640.3  |
| 87.5° | 112.7   | 151.7   | 219.1  | 245.0  | 228.2  | 384.9  | 824.4  | 732.4  | 597.5  | 486.1  | 427.7  |
| 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)