

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: P456211

Luminaire Tested: **GLAN-SA7C-722-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456211  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7C-722-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36203 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 377  
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

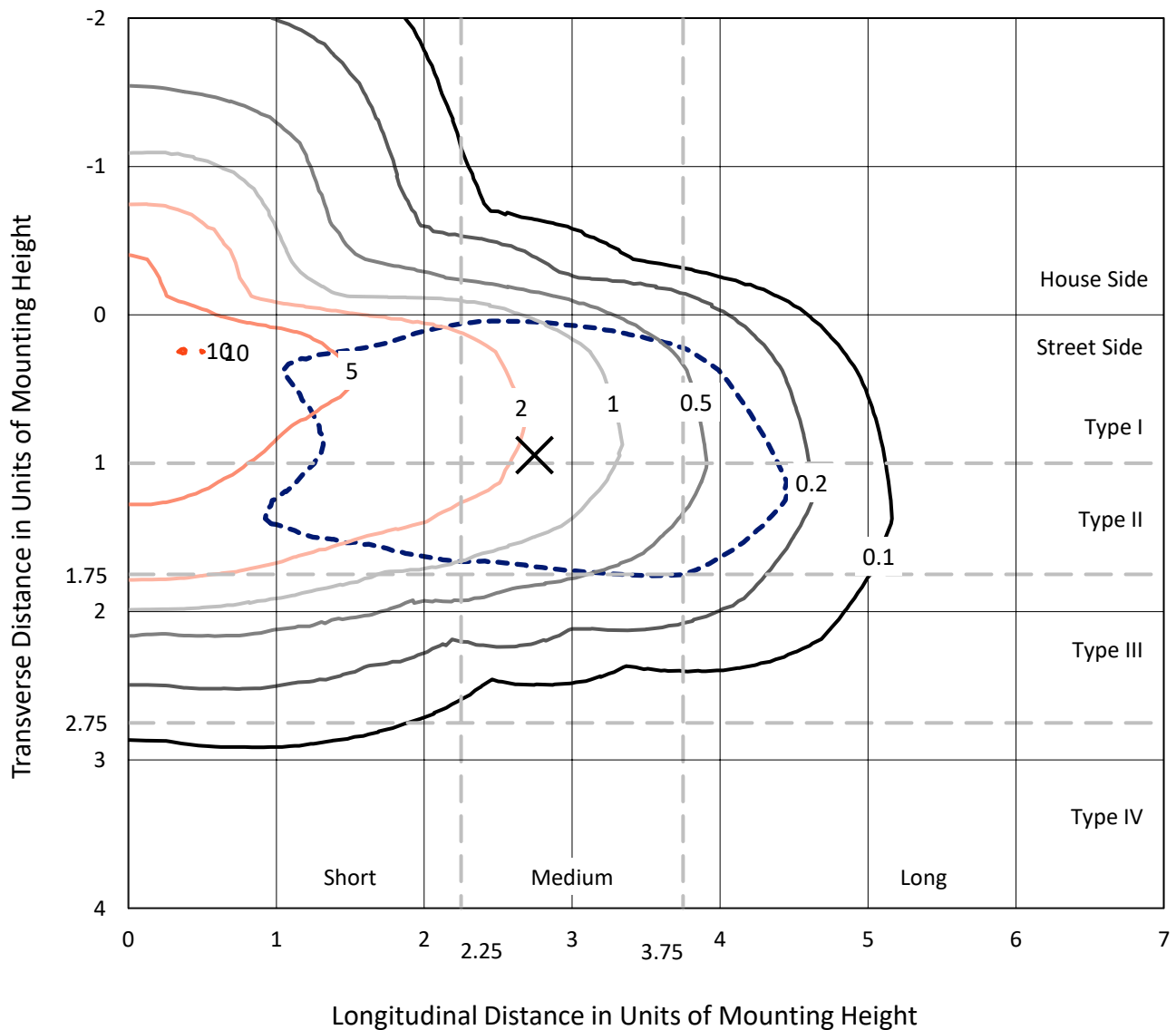


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

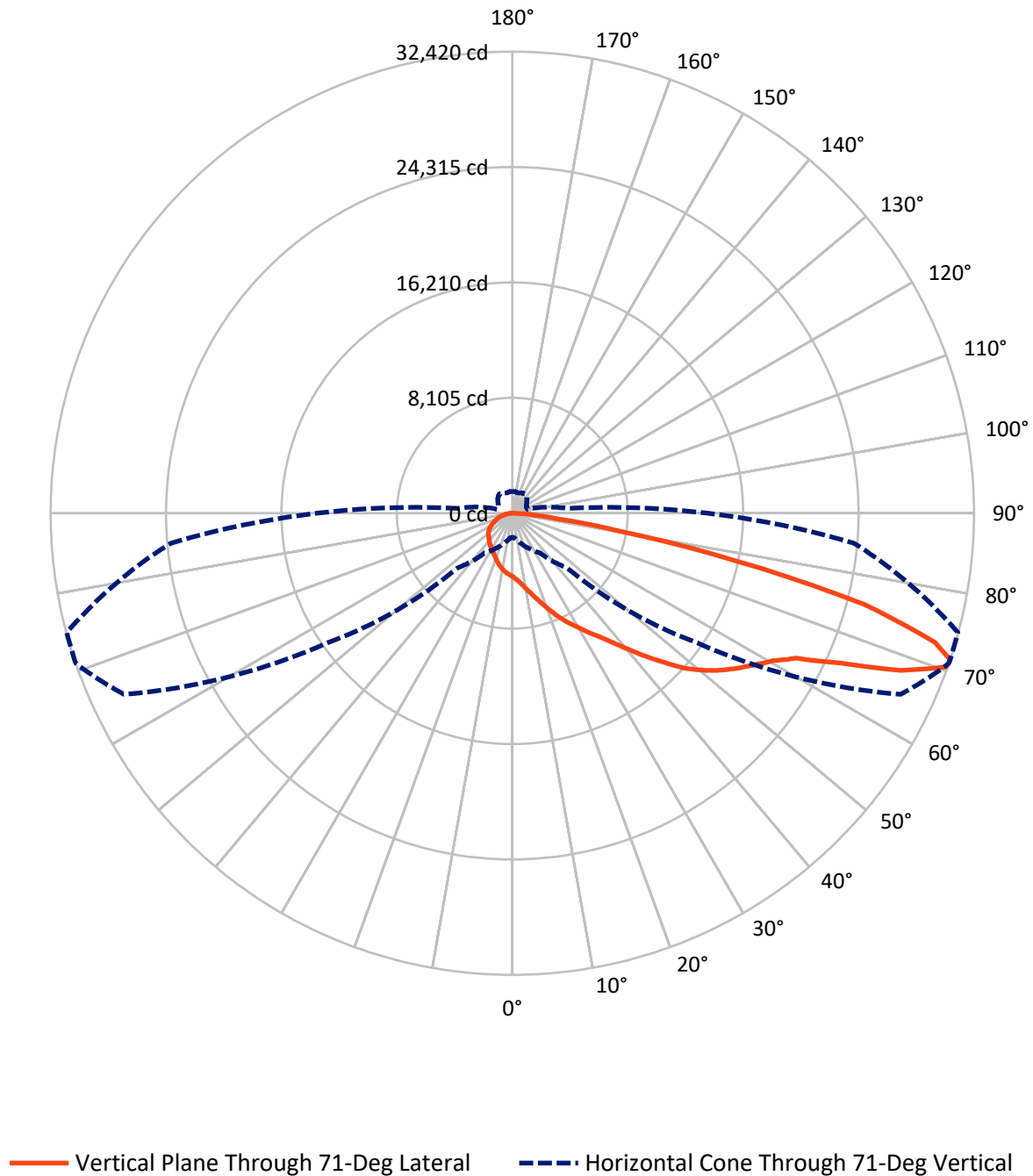


Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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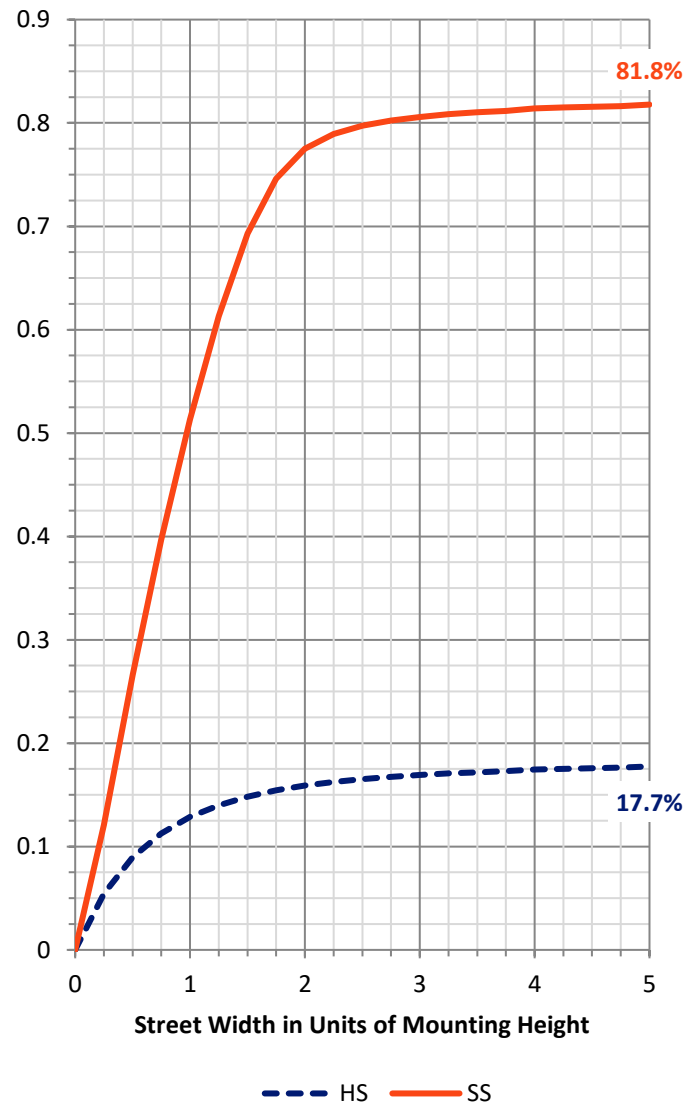
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6511.0   | 0.0    | 6511.0  |
|                    | % Fixture | 18.0     | 0.0    | 18.0    |
| <b>Street Side</b> | Lumens    | 29692.0  | 0.0    | 29692.0 |
|                    | % Fixture | 82.0     | 0.0    | 82.0    |
| <b>Total</b>       | Lumens    | 36203.0  | 0.0    | 36203.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 446.1   | 1.2       |
| 10°-20°   | 1449.4  | 4.0       |
| 20°-30°   | 2533.0  | 7.0       |
| 30°-40°   | 3767.5  | 10.4      |
| 40°-50°   | 5551.0  | 15.3      |
| 50°-60°   | 7771.4  | 21.5      |
| 60°-70°   | 8692.1  | 24.0      |
| 70°-80°   | 5309.5  | 14.7      |
| 80°-90°   | 683.0   | 1.9       |
| 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°    | 36203.0 | 100.0     |
| 0°-180°   | 36203.0 | 100.0     |

**Coefficient of Utilization**



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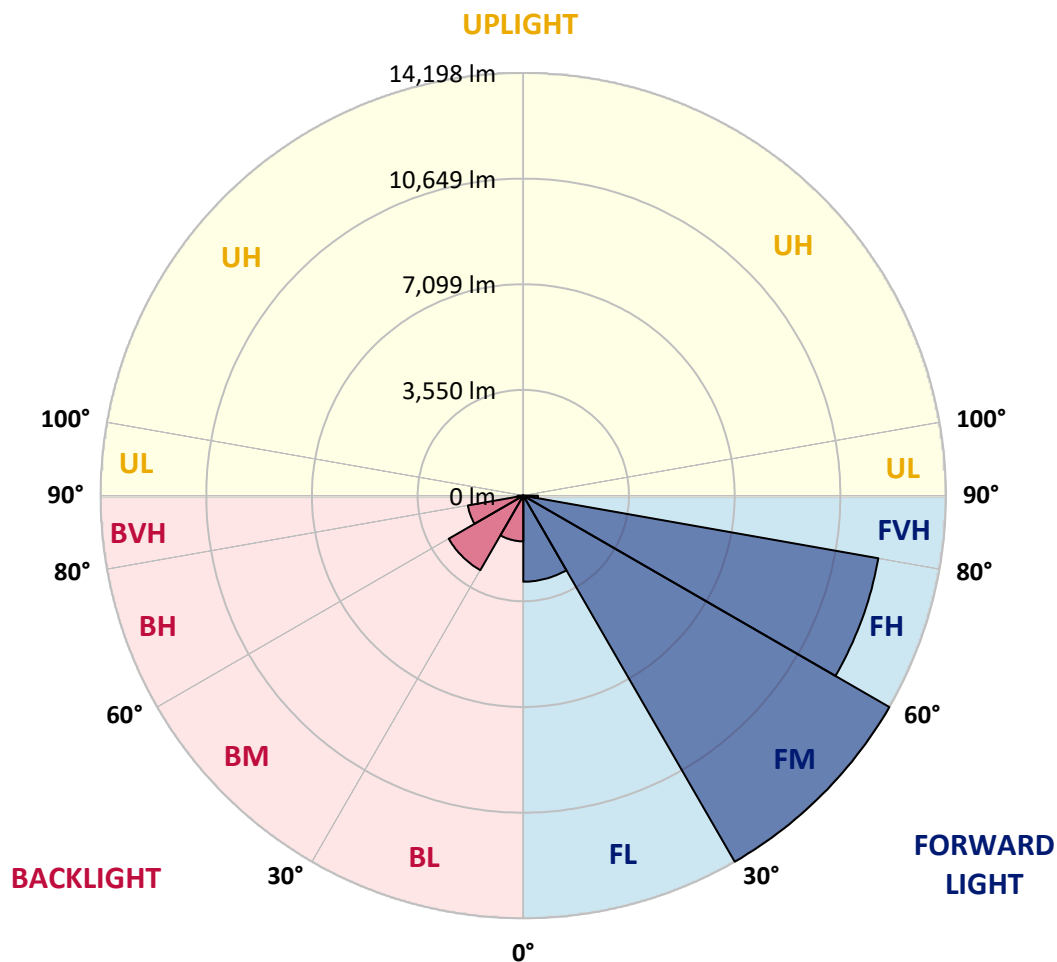
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2892.6  | 8.0       |                         |      |         |
| FM   | (30°-60°)   | 14198.1 | 39.2      |                         |      |         |
| FH   | (60°-80°)   | 12109.8 | 33.4      |                         |      | G5      |
| FVH  | (80°-90°)   | 491.4   | 1.4       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1535.9  | 4.2       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2891.8  | 8.0       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1891.7  | 5.2       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 191.6   | 0.5       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 71°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4443.2  | 4443.2  | 4443.2  | 4443.2  | 4443.2  | 4443.2  | 4443.2  | 4443.2  | 4443.2  | 4443.2  | 4443.2  |
| 2.5°  | 4932.7  | 4908.8  | 4910.8  | 4877.0  | 4833.2  | 4785.4  | 4717.8  | 4658.1  | 4610.3  | 4582.5  | 4500.9  |
| 5°    | 5466.0  | 5442.1  | 5412.2  | 5338.6  | 5306.8  | 5189.4  | 5040.1  | 4904.8  | 4801.4  | 4743.7  | 4580.5  |
| 7.5°  | 5897.7  | 5891.8  | 5883.8  | 5842.0  | 5760.4  | 5597.3  | 5469.9  | 5235.1  | 5081.9  | 4972.5  | 4693.9  |
| 10°   | 6164.4  | 6174.3  | 6180.3  | 6188.3  | 6154.4  | 6068.9  | 5893.8  | 5597.3  | 5402.3  | 5263.0  | 4841.2  |
| 12.5° | 6299.7  | 6309.6  | 6343.5  | 6417.1  | 6462.8  | 6452.9  | 6309.6  | 6019.1  | 5750.5  | 5567.4  | 4998.4  |
| 15°   | 6383.3  | 6399.2  | 6458.9  | 6556.4  | 6709.6  | 6807.1  | 6737.4  | 6468.8  | 6174.3  | 5957.4  | 5185.4  |
| 17.5° | 6474.8  | 6492.7  | 6558.4  | 6697.6  | 6898.6  | 7109.5  | 7185.1  | 6954.3  | 6634.0  | 6375.3  | 5394.3  |
| 20°   | 6526.5  | 6550.4  | 6643.9  | 6827.0  | 7061.8  | 7368.2  | 7618.9  | 7497.5  | 7147.3  | 6860.8  | 5635.1  |
| 22.5° | 6610.1  | 6630.0  | 6709.6  | 6904.6  | 7185.1  | 7569.2  | 8052.7  | 8026.8  | 7718.4  | 7348.3  | 5899.7  |
| 25°   | 6836.9  | 6868.8  | 6908.6  | 7026.0  | 7296.6  | 7774.1  | 8412.8  | 8591.9  | 8271.6  | 7857.7  | 6142.5  |
| 27.5° | 7264.7  | 7290.6  | 7288.6  | 7304.5  | 7457.7  | 7951.2  | 8725.2  | 9151.1  | 8820.7  | 8373.0  | 6377.3  |
| 30°   | 7752.2  | 7762.2  | 7770.1  | 7734.3  | 7768.1  | 8132.3  | 9011.8  | 9704.2  | 9373.9  | 8902.3  | 6582.2  |
| 32.5° | 8345.2  | 8365.1  | 8297.4  | 8205.9  | 8178.0  | 8400.9  | 9248.6  | 10257.4 | 10028.5 | 9439.6  | 6785.2  |
| 35°   | 9045.6  | 9097.3  | 8960.0  | 8798.9  | 8685.4  | 8786.9  | 9566.9  | 10822.5 | 10699.1 | 10126.0 | 7053.8  |
| 37.5° | 9845.5  | 9909.2  | 9781.8  | 9465.4  | 9304.3  | 9332.1  | 9982.8  | 11520.9 | 11546.8 | 10908.0 | 7453.8  |
| 40°   | 10500.1 | 10583.7 | 10587.7 | 10140.0 | 9895.2  | 9927.1  | 10510.1 | 12273.0 | 12569.5 | 11875.1 | 7925.3  |
| 42.5° | 10931.9 | 11013.5 | 11099.1 | 10836.4 | 10579.7 | 10760.8 | 11124.9 | 13088.8 | 13719.6 | 13049.1 | 8584.0  |
| 45°   | 11405.5 | 11479.1 | 11526.9 | 11407.5 | 11264.2 | 11733.8 | 11867.1 | 13956.4 | 14945.3 | 14360.3 | 9304.3  |
| 47.5° | 11954.7 | 12036.2 | 12082.0 | 11968.6 | 11914.9 | 12587.4 | 12667.0 | 14766.2 | 16254.6 | 15633.8 | 10100.2 |
| 50°   | 12686.9 | 12748.6 | 12724.7 | 12653.1 | 12641.1 | 13242.1 | 13435.1 | 15524.4 | 17335.1 | 17004.8 | 10925.9 |
| 52.5° | 13598.2 | 13671.9 | 13697.7 | 13596.2 | 13550.5 | 13709.7 | 14053.9 | 16214.8 | 18318.0 | 18182.7 | 11807.4 |
| 55°   | 14149.4 | 14266.8 | 14660.8 | 14820.0 | 14929.4 | 14314.6 | 14720.5 | 16976.9 | 19199.5 | 19424.3 | 12754.6 |
| 57.5° | 13443.0 | 13594.3 | 14475.7 | 15271.6 | 16300.4 | 15826.8 | 15665.6 | 17772.8 | 20081.0 | 20628.2 | 13888.7 |
| 60°   | 11719.9 | 11753.7 | 12889.9 | 14356.3 | 16425.7 | 17770.8 | 17637.5 | 19038.3 | 21036.1 | 21841.9 | 15383.1 |
| 62.5° | 8130.3  | 8201.9  | 9545.0  | 11885.0 | 14877.7 | 18471.2 | 20992.3 | 21223.1 | 22405.1 | 23658.6 | 17573.8 |
| 65°   | 4192.5  | 4099.0  | 5322.7  | 7469.7  | 11216.5 | 16807.8 | 23710.4 | 25240.5 | 25373.8 | 26500.0 | 20658.0 |
| 67.5° | 2580.8  | 2622.5  | 3195.6  | 4361.6  | 6632.0  | 12215.3 | 23425.8 | 30149.3 | 29446.9 | 29988.1 | 23521.3 |
| 70°   | 1938.1  | 1989.8  | 2383.8  | 2984.7  | 4043.3  | 6984.2  | 18839.3 | 31339.2 | 32320.2 | 32180.9 | 24392.9 |
| 71°   | 1685.4  | 1739.1  | 2149.0  | 2716.1  | 3396.6  | 5390.3  | 15872.6 | 30093.6 | 32419.7 | 32395.8 | 24064.5 |
| 72.5° | 1436.6  | 1470.5  | 1790.8  | 2300.2  | 2863.3  | 3778.6  | 11924.8 | 26989.5 | 31036.8 | 31830.7 | 22892.5 |
| 75°   | 1128.2  | 1154.1  | 1297.3  | 1755.0  | 2254.4  | 2320.1  | 6399.2  | 20234.2 | 25491.2 | 27003.5 | 19058.2 |
| 77.5° | 919.3   | 937.2   | 1010.8  | 1303.3  | 1739.1  | 1643.6  | 3356.8  | 13170.4 | 15970.1 | 17492.3 | 11226.4 |
| 80°   | 730.3   | 750.2   | 793.9   | 883.5   | 1303.3  | 1172.0  | 1601.8  | 6673.8  | 7714.4  | 7698.5  | 4481.0  |
| 82.5° | 567.1   | 573.1   | 624.8   | 648.7   | 891.4   | 831.7   | 867.5   | 2825.5  | 3129.9  | 3233.4  | 1617.7  |
| 85°   | 358.2   | 376.1   | 553.2   | 497.4   | 533.3   | 487.5   | 427.8   | 1122.2  | 1382.9  | 1363.0  | 646.7   |
| 87.5° | 109.4   | 115.4   | 187.0   | 210.9   | 236.8   | 212.9   | 157.2   | 330.3   | 403.9   | 437.8   | 161.2   |
| 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°    | 4443.2  | 4443.2 | 4443.2 | 4443.2 | 4443.2 | 4443.2 | 4443.2 | 4443.2 | 4443.2 | 4443.2 | 4443.2 |
| 2.5°  | 4469.1  | 4447.2 | 4369.6 | 4305.9 | 4246.2 | 4180.6 | 4124.8 | 4108.9 | 4095.0 | 4089.0 | 4087.0 |
| 5°    | 4510.9  | 4445.2 | 4292.0 | 4166.6 | 4067.1 | 3975.6 | 3917.9 | 3892.0 | 3866.2 | 3866.2 | 3874.1 |
| 7.5°  | 4570.6  | 4451.2 | 4214.4 | 4027.3 | 3902.0 | 3816.4 | 3774.6 | 3770.7 | 3776.6 | 3782.6 | 3784.6 |
| 10°   | 4636.2  | 4447.2 | 4101.0 | 3868.2 | 3756.7 | 3716.9 | 3718.9 | 3752.7 | 3784.6 | 3808.5 | 3812.4 |
| 12.5° | 4699.9  | 4423.3 | 3967.6 | 3718.9 | 3647.3 | 3655.2 | 3711.0 | 3786.6 | 3848.3 | 3882.1 | 3884.1 |
| 15°   | 4771.5  | 4385.5 | 3806.5 | 3577.6 | 3553.8 | 3615.5 | 3718.9 | 3834.3 | 3927.8 | 3983.6 | 3989.5 |
| 17.5° | 4831.2  | 4321.8 | 3637.3 | 3440.3 | 3470.2 | 3583.6 | 3726.9 | 3876.1 | 3989.5 | 4059.2 | 4071.1 |
| 20°   | 4898.9  | 4240.2 | 3462.2 | 3309.0 | 3394.6 | 3547.8 | 3711.0 | 3872.1 | 3989.5 | 4057.2 | 4073.1 |
| 22.5° | 4952.6  | 4124.8 | 3295.1 | 3201.6 | 3326.9 | 3504.0 | 3657.2 | 3786.6 | 3882.1 | 3917.9 | 3941.8 |
| 25°   | 4974.5  | 3979.6 | 3137.9 | 3114.0 | 3273.2 | 3432.4 | 3535.9 | 3609.5 | 3639.3 | 3635.3 | 3645.3 |
| 27.5° | 4962.5  | 3812.4 | 3002.6 | 3044.4 | 3205.6 | 3321.0 | 3372.7 | 3366.7 | 3313.0 | 3263.3 | 3287.1 |
| 30°   | 4912.8  | 3613.5 | 2889.2 | 2972.7 | 3118.0 | 3181.7 | 3173.7 | 3096.1 | 2994.6 | 2901.1 | 2907.1 |
| 32.5° | 4823.3  | 3398.6 | 2783.7 | 2891.2 | 2994.6 | 3022.5 | 2968.8 | 2867.3 | 2722.0 | 2600.7 | 2582.7 |
| 35°   | 4747.6  | 3193.6 | 2690.2 | 2797.6 | 2871.3 | 2857.3 | 2805.6 | 2674.3 | 2543.0 | 2435.5 | 2417.6 |
| 37.5° | 4735.7  | 3018.5 | 2600.7 | 2692.2 | 2734.0 | 2714.1 | 2650.4 | 2539.0 | 2491.2 | 2409.6 | 2399.7 |
| 40°   | 4799.4  | 2895.1 | 2509.1 | 2580.8 | 2600.7 | 2584.7 | 2515.1 | 2451.4 | 2495.2 | 2475.3 | 2475.3 |
| 42.5° | 4972.5  | 2829.5 | 2427.5 | 2469.3 | 2485.2 | 2497.2 | 2447.4 | 2393.7 | 2447.4 | 2355.9 | 2326.1 |
| 45°   | 5247.1  | 2831.5 | 2353.9 | 2359.9 | 2407.6 | 2449.4 | 2415.6 | 2336.0 | 2308.2 | 2125.1 | 2089.3 |
| 47.5° | 5651.0  | 2899.1 | 2294.2 | 2256.4 | 2342.0 | 2411.6 | 2363.9 | 2248.5 | 2125.1 | 2003.7 | 1981.8 |
| 50°   | 6122.6  | 3020.5 | 2240.5 | 2149.0 | 2254.4 | 2363.9 | 2328.1 | 2192.8 | 2065.4 | 1991.8 | 1977.9 |
| 52.5° | 6645.9  | 3173.7 | 2174.8 | 2029.6 | 2147.0 | 2342.0 | 2336.0 | 2184.8 | 2009.7 | 1959.9 | 1948.0 |
| 55°   | 7292.6  | 3324.9 | 2093.3 | 1890.3 | 2051.5 | 2324.1 | 2314.1 | 2119.1 | 1997.8 | 1961.9 | 1958.0 |
| 57.5° | 8044.7  | 3543.8 | 1975.9 | 1749.0 | 1942.0 | 2250.5 | 2228.6 | 2079.3 | 1958.0 | 1932.1 | 1930.1 |
| 60°   | 9256.5  | 3884.1 | 1808.7 | 1619.7 | 1830.6 | 2121.1 | 2149.0 | 2011.7 | 1894.3 | 1888.3 | 1886.3 |
| 62.5° | 10850.3 | 4361.6 | 1635.6 | 1486.4 | 1701.3 | 1954.0 | 2033.6 | 1920.1 | 1826.6 | 1856.5 | 1860.5 |
| 65°   | 13051.0 | 4763.6 | 1456.5 | 1373.0 | 1558.0 | 1792.8 | 1924.1 | 1834.6 | 1751.0 | 1808.7 | 1808.7 |
| 67.5° | 14485.7 | 4771.5 | 1293.4 | 1255.6 | 1412.8 | 1657.5 | 1808.7 | 1733.1 | 1653.5 | 1751.0 | 1755.0 |
| 70°   | 14187.2 | 4180.6 | 1158.1 | 1132.2 | 1271.5 | 1512.2 | 1681.4 | 1621.7 | 1530.1 | 1617.7 | 1585.9 |
| 71°   | 13705.7 | 3852.2 | 1104.3 | 1084.4 | 1215.8 | 1442.6 | 1621.7 | 1571.9 | 1480.4 | 1538.1 | 1520.2 |
| 72.5° | 12937.6 | 3344.8 | 1016.8 | 1020.8 | 1132.2 | 1355.0 | 1538.1 | 1486.4 | 1394.8 | 1426.7 | 1420.7 |
| 75°   | 10935.9 | 2921.0 | 869.5  | 887.4  | 973.0  | 1205.8 | 1371.0 | 1331.2 | 1237.7 | 1237.7 | 1231.7 |
| 77.5° | 6836.9  | 2041.5 | 722.3  | 732.2  | 825.8  | 1032.7 | 1178.0 | 1144.1 | 1054.6 | 1024.7 | 1016.8 |
| 80°   | 2550.9  | 1054.6 | 565.1  | 577.0  | 634.7  | 813.8  | 975.0  | 943.2  | 851.6  | 817.8  | 786.0  |
| 82.5° | 965.0   | 529.3  | 415.9  | 405.9  | 467.6  | 620.8  | 764.1  | 726.3  | 654.6  | 573.1  | 549.2  |
| 85°   | 364.1   | 262.7  | 254.7  | 246.7  | 274.6  | 368.1  | 473.6  | 465.6  | 390.0  | 332.3  | 326.3  |
| 87.5° | 95.5    | 85.6   | 99.5   | 73.6   | 77.6   | 69.6   | 71.6   | 29.8   | 13.9   | 6.0    | 4.0    |
| 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)