

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: P531594

Luminaire Tested: **GLAN-SA6D-827-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531594  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA6D-827-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28286 lumens  
Efficiency: N/A  
Efficacy: 76.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

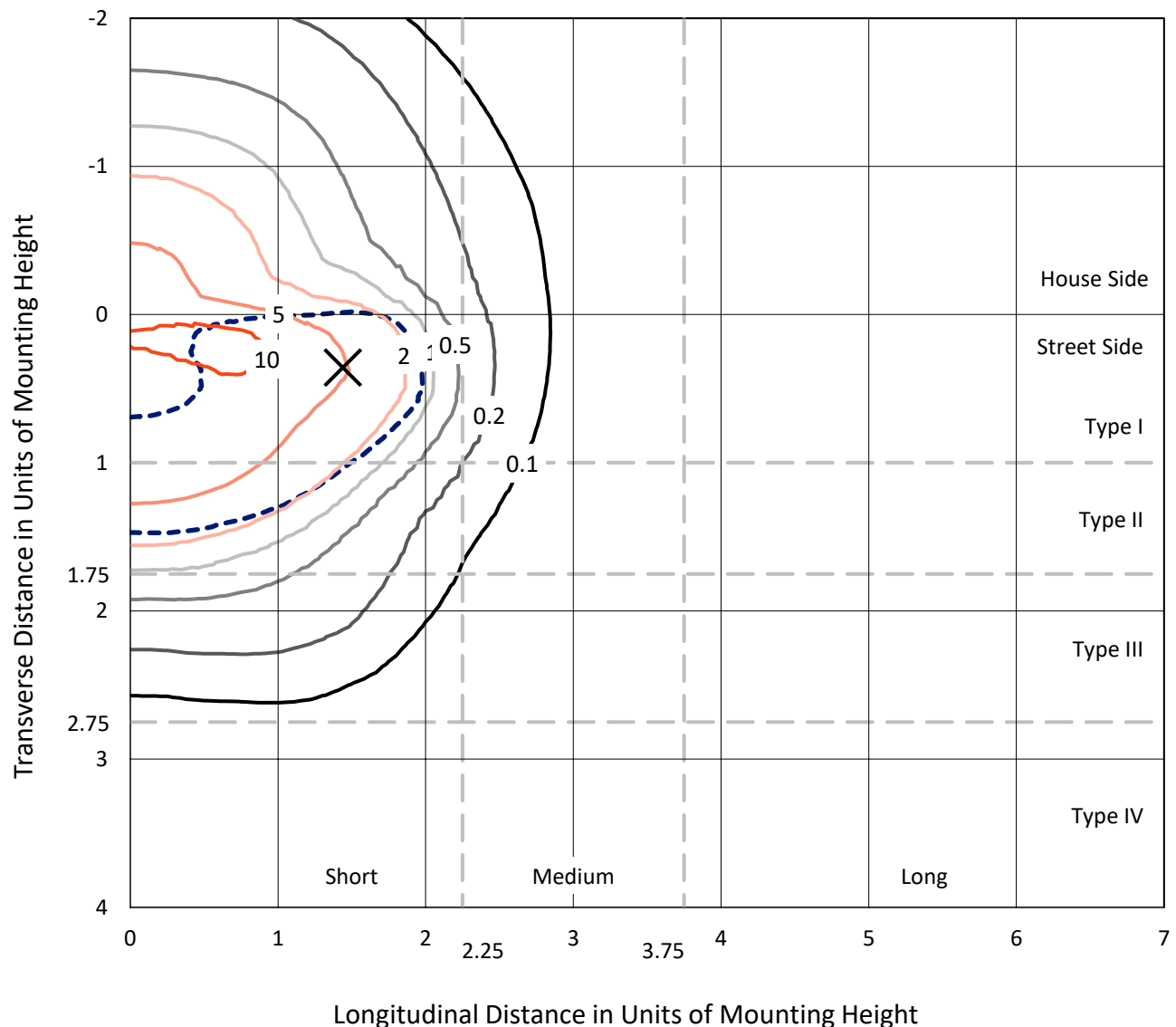
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

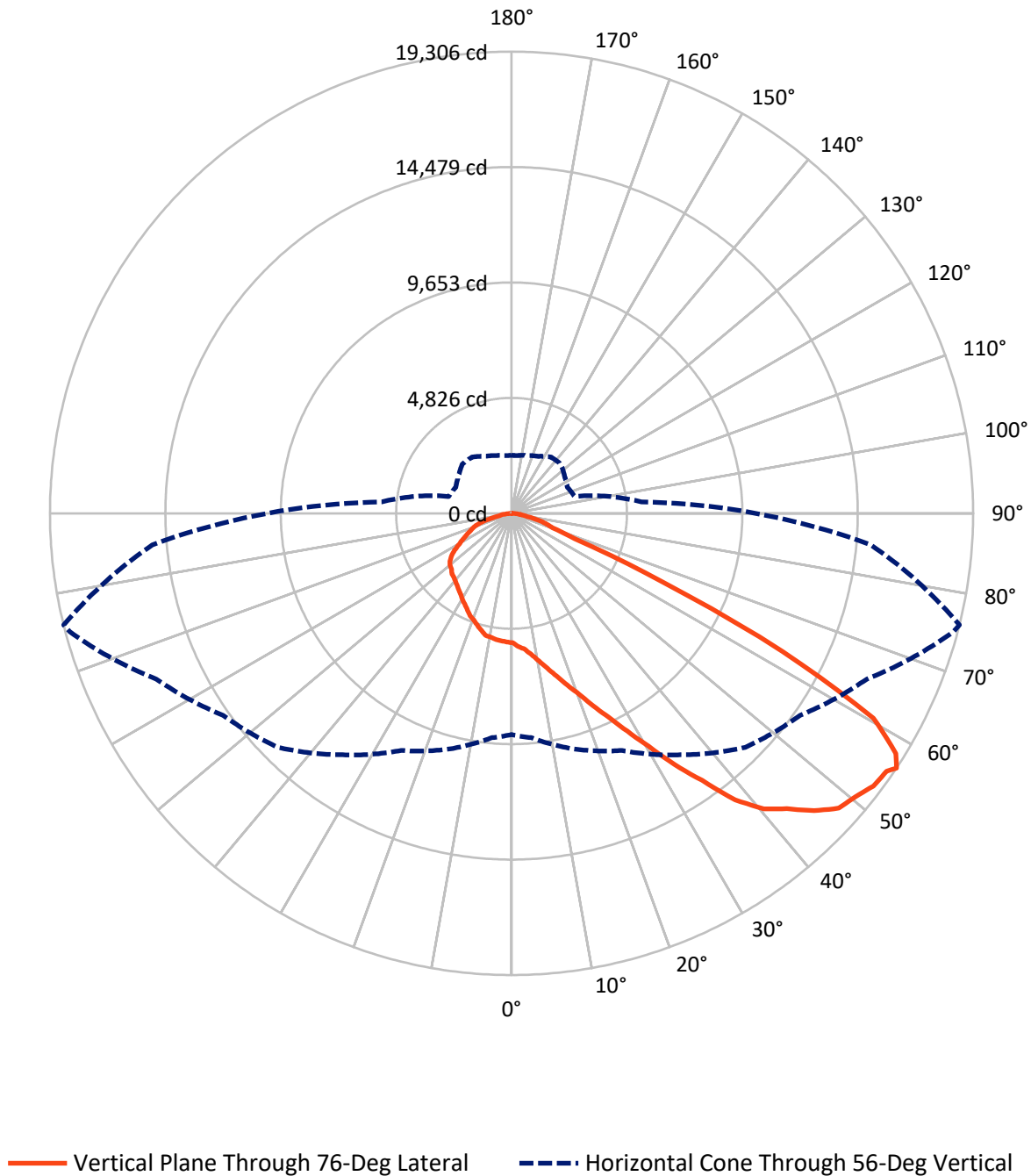
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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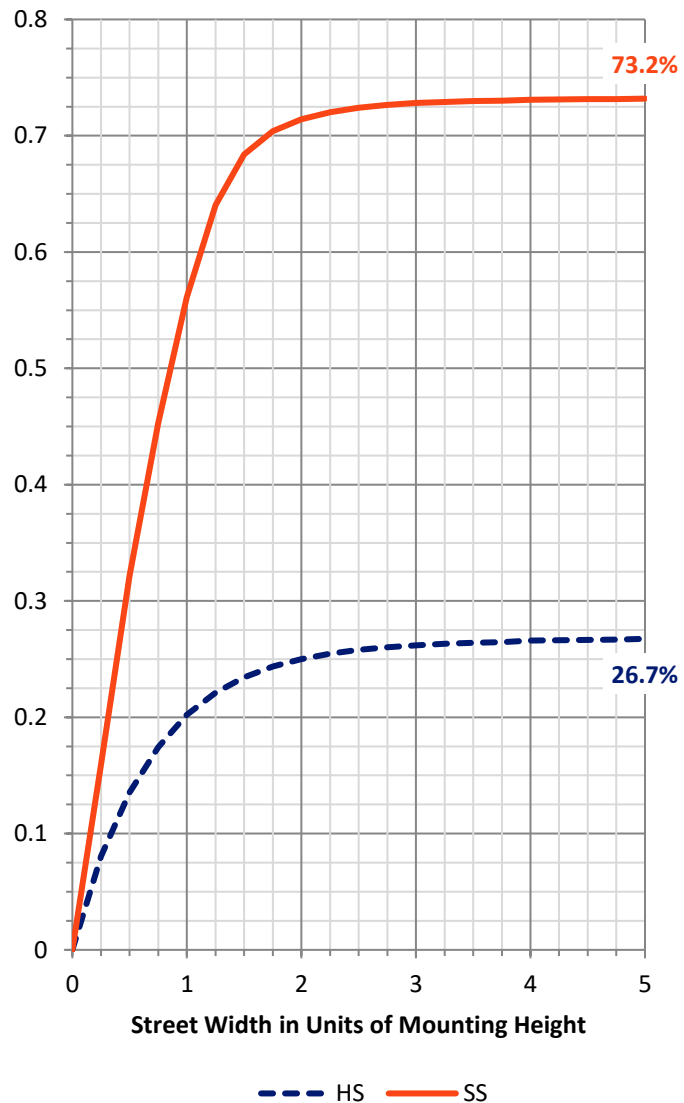
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7605.3   | 0.0    | 7605.3  |
|                    | % Fixture | 26.9     | 0.0    | 26.9    |
| <b>Street Side</b> | Lumens    | 20680.7  | 0.0    | 20680.7 |
|                    | % Fixture | 73.1     | 0.0    | 73.1    |
| <b>Total</b>       | Lumens    | 28286.0  | 0.0    | 28286.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 536.7   | 1.9       |
| 10°-20°   | 1686.0  | 6.0       |
| 20°-30°   | 2948.6  | 10.4      |
| 30°-40°   | 4616.7  | 16.3      |
| 40°-50°   | 6716.0  | 23.7      |
| 50°-60°   | 7381.3  | 26.1      |
| 60°-70°   | 3294.7  | 11.6      |
| 70°-80°   | 951.6   | 3.4       |
| 80°-90°   | 154.4   | 0.5       |
| 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°    | 28286.0 | 100.0     |
| 0°-180°   | 28286.0 | 100.0     |

**Coefficient of Utilization**



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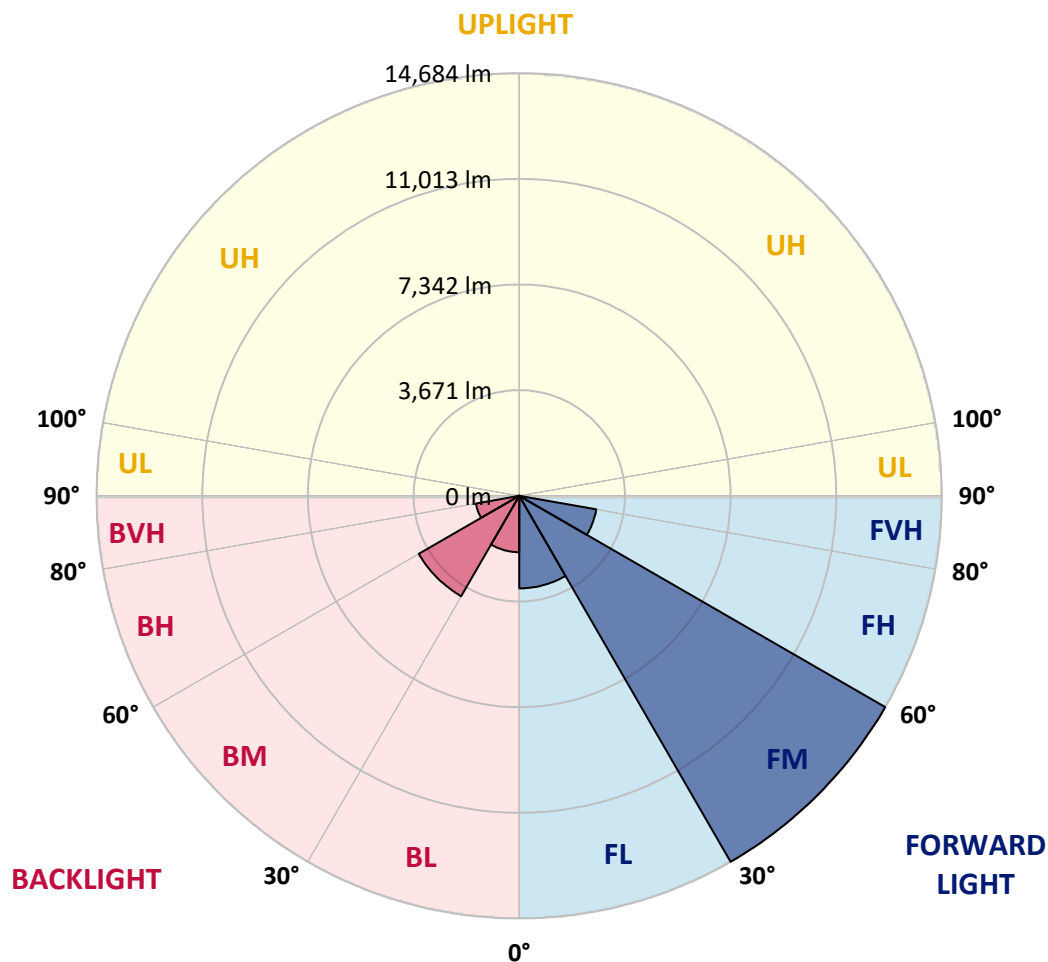
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3214.4  | 11.4      |                         |      |         |
| FM   | (30°-60°)   | 14683.8 | 51.9      |                         |      |         |
| FH   | (60°-80°)   | 2716.1  | 9.6       |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 66.4    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1957.0  | 6.9       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4030.2  | 14.2      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1530.2  | 5.4       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 87.9    | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5412.2  | 5412.2  | 5412.2  | 5412.2  | 5412.2  | 5412.2  | 5412.2  | 5412.2  | 5412.2  | 5412.2  | 5412.2  |
| 2.5°  | 5962.2  | 5866.8  | 5859.5  | 5833.8  | 5848.5  | 5782.5  | 5712.8  | 5621.2  | 5525.8  | 5584.5  | 5445.2  |
| 5°    | 6380.2  | 6251.9  | 6303.2  | 6215.2  | 6226.2  | 6138.2  | 5995.2  | 5888.8  | 5771.5  | 5701.8  | 5602.8  |
| 7.5°  | 6526.9  | 6537.9  | 6574.5  | 6559.9  | 6486.5  | 6486.5  | 6391.2  | 6204.2  | 5998.8  | 5958.5  | 5793.5  |
| 10°   | 6724.9  | 6728.5  | 6688.2  | 6699.2  | 6801.9  | 6754.2  | 6669.9  | 6589.2  | 6325.2  | 6277.5  | 5984.2  |
| 12.5° | 6794.5  | 6728.5  | 6794.5  | 6853.2  | 6974.2  | 7040.2  | 7021.9  | 6963.2  | 6680.9  | 6647.9  | 6218.9  |
| 15°   | 6805.5  | 6765.2  | 6820.2  | 6952.2  | 7058.5  | 7337.2  | 7476.6  | 7436.2  | 7062.2  | 7065.9  | 6482.9  |
| 17.5° | 6754.2  | 6809.2  | 6831.2  | 6944.9  | 7190.5  | 7450.9  | 7854.2  | 7909.2  | 7601.2  | 7553.6  | 6816.5  |
| 20°   | 6823.9  | 6783.5  | 6812.9  | 6915.5  | 7241.9  | 7648.9  | 8176.9  | 8539.9  | 8107.2  | 8074.2  | 7161.2  |
| 22.5° | 7091.5  | 7036.5  | 7029.2  | 7095.2  | 7329.9  | 7751.6  | 8517.9  | 9170.6  | 8723.3  | 8741.6  | 7590.2  |
| 25°   | 7300.6  | 7329.9  | 7304.2  | 7300.6  | 7447.2  | 7905.6  | 8968.9  | 9922.3  | 9559.3  | 9453.0  | 8096.2  |
| 27.5° | 7659.9  | 7729.6  | 7678.2  | 7747.9  | 7714.9  | 8136.6  | 9291.6  | 10754.7 | 10461.3 | 10318.3 | 8554.6  |
| 30°   | 8158.6  | 8195.2  | 8147.6  | 8147.6  | 8048.6  | 8459.3  | 9585.0  | 11623.7 | 11502.7 | 11308.3 | 9093.6  |
| 32.5° | 8814.9  | 8869.9  | 8774.6  | 8719.6  | 8704.9  | 8939.6  | 10113.0 | 12481.7 | 12687.0 | 12522.0 | 9808.6  |
| 35°   | 9684.0  | 9651.0  | 9537.3  | 9486.0  | 9287.9  | 9676.6  | 10897.7 | 13468.1 | 14007.1 | 13713.7 | 10674.0 |
| 37.5° | 10450.3 | 10399.0 | 10391.6 | 10105.6 | 10153.3 | 10472.3 | 11565.0 | 14216.1 | 15286.8 | 15202.5 | 11587.0 |
| 40°   | 11165.3 | 11213.0 | 11290.0 | 11128.7 | 11055.3 | 11407.3 | 12342.4 | 14788.1 | 16280.5 | 16247.5 | 12291.0 |
| 42.5° | 11931.7 | 11887.7 | 12023.4 | 11887.7 | 11777.7 | 12276.4 | 13185.7 | 15184.1 | 17153.2 | 16881.8 | 13028.1 |
| 45°   | 13042.7 | 12903.4 | 12951.1 | 12962.1 | 12881.4 | 13064.7 | 13534.1 | 15470.1 | 17765.5 | 17736.2 | 13567.1 |
| 47.5° | 13970.4 | 13974.1 | 13893.4 | 13831.1 | 13585.4 | 13768.7 | 13922.8 | 15649.8 | 18469.6 | 18421.9 | 13776.1 |
| 50°   | 14315.1 | 14267.4 | 14502.1 | 14637.8 | 14652.4 | 14278.4 | 14227.1 | 15748.8 | 18839.9 | 18630.9 | 13985.1 |
| 52.5° | 13075.7 | 13119.7 | 13490.1 | 14296.8 | 14762.4 | 14802.8 | 14582.8 | 15954.1 | 18990.2 | 18946.2 | 14153.8 |
| 55°   | 10523.7 | 10736.3 | 11345.0 | 12276.4 | 13380.1 | 14593.8 | 14967.8 | 16166.8 | 19070.9 | 19034.2 | 14901.8 |
| 56°   | 9251.3  | 9416.3  | 10208.3 | 10938.0 | 12324.0 | 13834.7 | 14725.8 | 16394.2 | 19133.2 | 19305.6 | 15077.8 |
| 57.5° | 7447.2  | 7637.9  | 8206.2  | 9034.9  | 10670.3 | 12390.0 | 14058.4 | 16115.5 | 18891.2 | 18957.2 | 15206.1 |
| 60°   | 4656.8  | 4675.1  | 5357.2  | 5903.5  | 7054.9  | 8734.3  | 10729.0 | 14021.8 | 17483.2 | 17387.9 | 13658.7 |
| 62.5° | 3054.4  | 3058.1  | 3677.8  | 4125.1  | 4649.5  | 5034.5  | 6314.2  | 9298.9  | 12899.7 | 12731.0 | 9724.3  |
| 65°   | 2145.1  | 2192.7  | 2673.1  | 3270.8  | 3483.4  | 3281.8  | 3241.4  | 4902.5  | 7205.2  | 6963.2  | 5225.2  |
| 67.5° | 1569.4  | 1573.0  | 1998.4  | 2640.1  | 2948.1  | 2497.1  | 2027.7  | 2394.4  | 2852.8  | 2845.4  | 2420.1  |
| 70°   | 1037.7  | 1081.7  | 1408.0  | 1972.7  | 2324.7  | 2005.7  | 1657.4  | 1712.4  | 1815.1  | 1815.1  | 1800.4  |
| 72.5° | 605.0   | 645.4   | 861.7   | 1250.4  | 1305.4  | 1254.0  | 1312.7  | 1466.7  | 1532.7  | 1529.0  | 1510.7  |
| 75°   | 344.7   | 363.0   | 410.7   | 520.7   | 649.0   | 766.4   | 964.4   | 1111.0  | 1177.0  | 1217.4  | 1169.7  |
| 77.5° | 201.7   | 212.7   | 242.0   | 297.0   | 337.3   | 414.3   | 524.3   | 627.0   | 715.0   | 704.0   | 711.4   |
| 80°   | 106.3   | 106.3   | 135.7   | 176.0   | 234.7   | 293.3   | 348.3   | 407.0   | 454.7   | 465.7   | 476.7   |
| 82.5° | 62.3    | 66.0    | 88.0    | 128.3   | 168.7   | 209.0   | 267.7   | 308.0   | 352.0   | 355.7   | 363.0   |
| 85°   | 33.0    | 36.7    | 55.0    | 84.3    | 113.7   | 128.3   | 132.0   | 124.7   | 135.7   | 128.3   | 146.7   |
| 87.5° | 11.0    | 11.0    | 18.3    | 14.7    | 14.7    | 18.3    | 22.0    | 22.0    | 29.3    | 29.3    | 29.3    |
| 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°    | 5412.2  | 5412.2 | 5412.2 | 5412.2 | 5412.2 | 5412.2 | 5412.2 | 5412.2 | 5412.2 | 5412.2 | 5412.2 |
| 2.5°  | 5441.5  | 5441.5 | 5379.2 | 5261.8 | 5243.5 | 5195.8 | 5151.8 | 5148.2 | 5115.2 | 5085.8 | 5071.2 |
| 5°    | 5544.2  | 5430.5 | 5338.8 | 5232.5 | 5107.8 | 5049.2 | 4983.1 | 4909.8 | 4880.5 | 4909.8 | 4906.1 |
| 7.5°  | 5661.5  | 5566.2 | 5291.2 | 5093.2 | 4950.1 | 4891.5 | 4818.1 | 4741.1 | 4748.5 | 4748.5 | 4697.1 |
| 10°   | 5775.2  | 5646.8 | 5206.8 | 4953.8 | 4744.8 | 4700.8 | 4660.5 | 4689.8 | 4726.5 | 4733.8 | 4700.8 |
| 12.5° | 5965.8  | 5676.2 | 5166.5 | 4814.5 | 4682.5 | 4587.1 | 4612.8 | 4693.5 | 4770.5 | 4748.5 | 4774.1 |
| 15°   | 6108.9  | 5701.8 | 4983.1 | 4671.5 | 4506.5 | 4550.5 | 4642.1 | 4697.1 | 4825.5 | 4810.8 | 4836.5 |
| 17.5° | 6248.2  | 5716.5 | 4803.5 | 4480.8 | 4411.1 | 4532.1 | 4601.8 | 4759.5 | 4799.8 | 4887.8 | 4920.8 |
| 20°   | 6534.2  | 5745.8 | 4620.1 | 4363.5 | 4341.5 | 4480.8 | 4601.8 | 4675.1 | 4763.1 | 4840.1 | 4840.1 |
| 22.5° | 6680.9  | 5731.2 | 4499.1 | 4209.5 | 4279.1 | 4367.1 | 4477.1 | 4601.8 | 4601.8 | 4675.1 | 4678.8 |
| 25°   | 6864.2  | 5672.5 | 4308.5 | 4136.1 | 4187.5 | 4271.8 | 4396.5 | 4352.5 | 4400.1 | 4400.1 | 4458.8 |
| 27.5° | 7073.2  | 5547.8 | 4143.5 | 4004.1 | 4106.8 | 4198.5 | 4216.8 | 4187.5 | 4132.5 | 4125.1 | 4103.1 |
| 30°   | 7241.9  | 5393.8 | 4022.5 | 3960.1 | 4044.5 | 4095.8 | 4037.1 | 3974.8 | 3879.5 | 3872.1 | 3820.8 |
| 32.5° | 7472.9  | 5203.2 | 3872.1 | 3850.1 | 3945.5 | 3949.1 | 3930.8 | 3835.4 | 3696.1 | 3637.4 | 3578.8 |
| 35°   | 7861.6  | 5093.2 | 3758.4 | 3791.4 | 3820.8 | 3809.8 | 3776.8 | 3674.1 | 3534.8 | 3509.1 | 3487.1 |
| 37.5° | 8147.6  | 5012.5 | 3641.1 | 3681.4 | 3707.1 | 3721.8 | 3622.8 | 3509.1 | 3512.8 | 3461.4 | 3446.8 |
| 40°   | 8470.3  | 4961.1 | 3545.8 | 3564.1 | 3567.8 | 3615.4 | 3494.4 | 3439.4 | 3465.1 | 3432.1 | 3454.1 |
| 42.5° | 8884.6  | 4975.8 | 3446.8 | 3432.1 | 3501.8 | 3483.4 | 3424.8 | 3351.4 | 3366.1 | 3267.1 | 3281.8 |
| 45°   | 9104.6  | 5074.8 | 3388.1 | 3322.1 | 3399.1 | 3395.4 | 3318.4 | 3248.8 | 3160.8 | 2970.1 | 2977.4 |
| 47.5° | 9251.3  | 5100.5 | 3248.8 | 3204.8 | 3285.4 | 3333.1 | 3245.1 | 3083.8 | 2959.1 | 2823.4 | 2790.4 |
| 50°   | 9401.6  | 5148.2 | 3182.8 | 3091.1 | 3124.1 | 3237.8 | 3127.8 | 2973.8 | 2852.8 | 2731.7 | 2750.1 |
| 52.5° | 9533.6  | 5239.8 | 3054.4 | 2918.8 | 2977.4 | 3102.1 | 3043.4 | 2856.4 | 2724.4 | 2625.4 | 2596.1 |
| 55°   | 10120.3 | 5445.2 | 2838.1 | 2662.1 | 2801.4 | 2959.1 | 2926.1 | 2698.7 | 2555.7 | 2504.4 | 2497.1 |
| 56°   | 10212.0 | 5452.5 | 2724.4 | 2574.1 | 2702.4 | 2911.4 | 2871.1 | 2629.1 | 2500.7 | 2420.1 | 2423.7 |
| 57.5° | 10226.6 | 5364.5 | 2563.1 | 2493.4 | 2603.4 | 2841.8 | 2790.4 | 2574.1 | 2398.1 | 2324.7 | 2302.7 |
| 60°   | 8998.3  | 4187.5 | 2361.4 | 2317.4 | 2445.7 | 2629.1 | 2610.7 | 2423.7 | 2225.7 | 2141.4 | 2181.7 |
| 62.5° | 6134.5  | 3069.1 | 2203.7 | 2196.4 | 2262.4 | 2442.1 | 2394.4 | 2225.7 | 2060.7 | 2005.7 | 1980.1 |
| 65°   | 3571.4  | 2328.4 | 2049.7 | 2020.4 | 2075.4 | 2170.7 | 2203.7 | 2027.7 | 1855.4 | 1818.7 | 1807.7 |
| 67.5° | 2108.4  | 1925.1 | 1851.7 | 1804.1 | 1785.7 | 1844.4 | 1870.1 | 1767.4 | 1595.0 | 1543.7 | 1587.7 |
| 70°   | 1763.7  | 1712.4 | 1716.1 | 1635.4 | 1591.4 | 1551.0 | 1529.0 | 1437.4 | 1294.4 | 1228.4 | 1210.0 |
| 72.5° | 1521.7  | 1499.7 | 1485.0 | 1411.7 | 1371.4 | 1279.7 | 1184.4 | 1092.7 | 986.4  | 931.4  | 935.0  |
| 75°   | 1162.4  | 1155.0 | 1162.4 | 1125.7 | 1056.0 | 982.7  | 894.7  | 777.4  | 696.7  | 627.0  | 641.7  |
| 77.5° | 693.0   | 715.0  | 726.0  | 711.4  | 682.0  | 616.0  | 561.0  | 484.0  | 407.0  | 352.0  | 344.7  |
| 80°   | 476.7   | 495.0  | 513.3  | 495.0  | 465.7  | 418.0  | 359.3  | 300.7  | 245.7  | 216.3  | 209.0  |
| 82.5° | 363.0   | 381.3  | 392.3  | 374.0  | 337.3  | 286.0  | 245.7  | 205.3  | 161.3  | 132.0  | 124.7  |
| 85°   | 132.0   | 150.3  | 146.7  | 176.0  | 190.7  | 183.3  | 157.7  | 121.0  | 91.7   | 66.0   | 62.3   |
| 87.5° | 36.7    | 33.0   | 36.7   | 36.7   | 36.7   | 33.0   | 29.3   | 29.3   | 29.3   | 18.3   | 14.7   |
| 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)