

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: P457429

Luminaire Tested: **GLAN-SA8D-730-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457429  
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-SA8D-730-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 57215 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

Input Watts (W): 493  
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

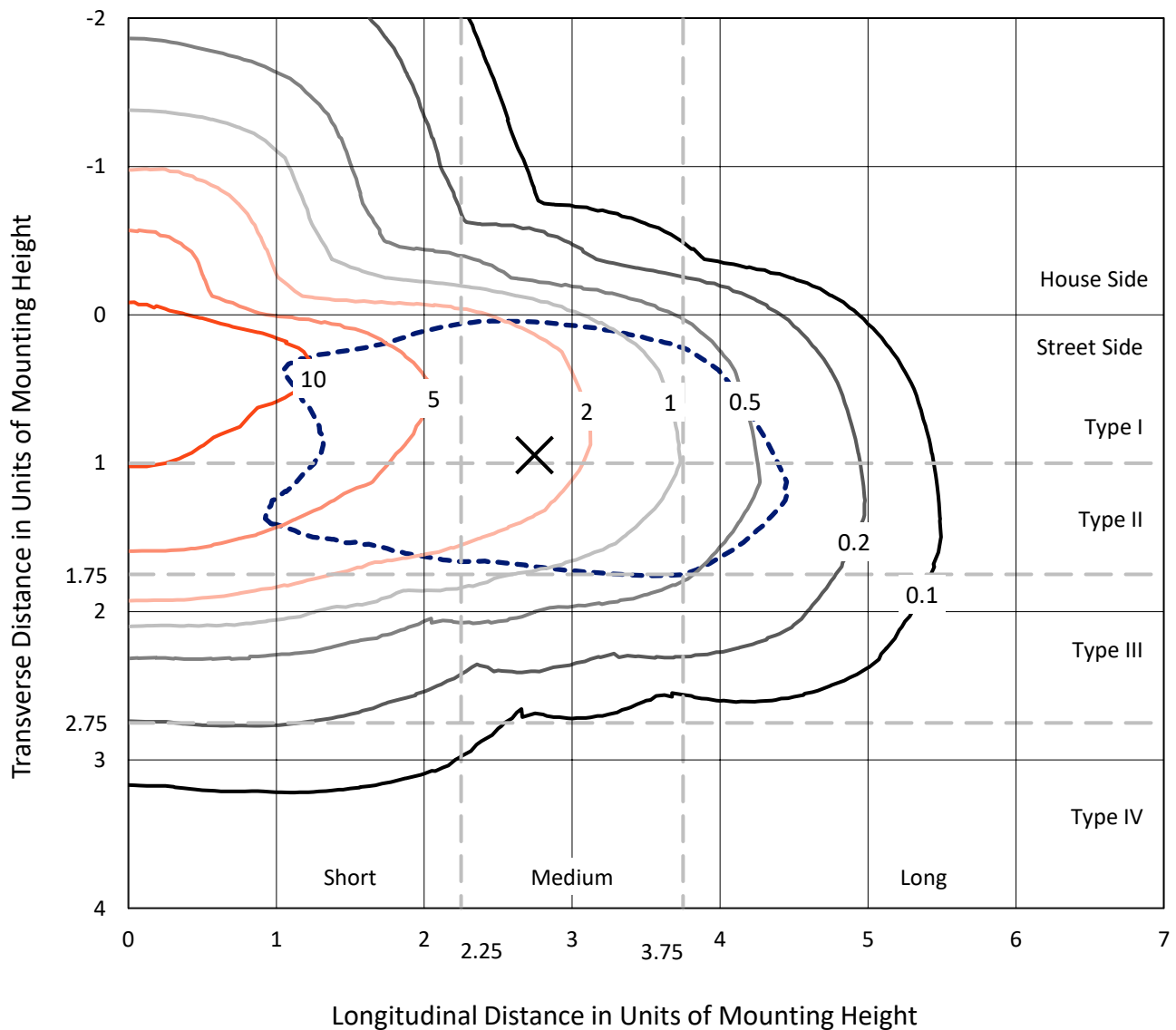


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

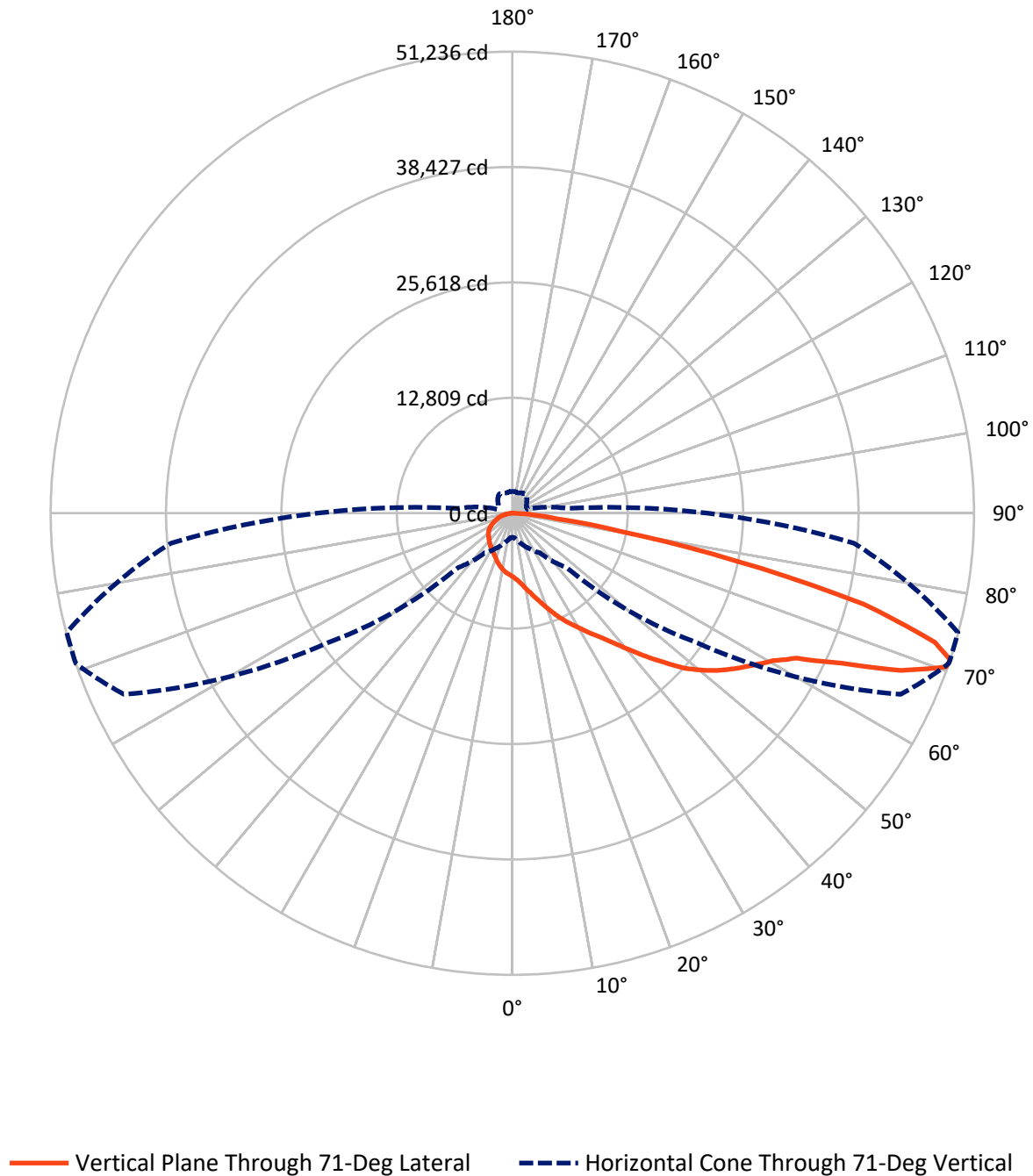


Based on 25 foot mounting height. Maximum calculated value = 15.9 fc  
 Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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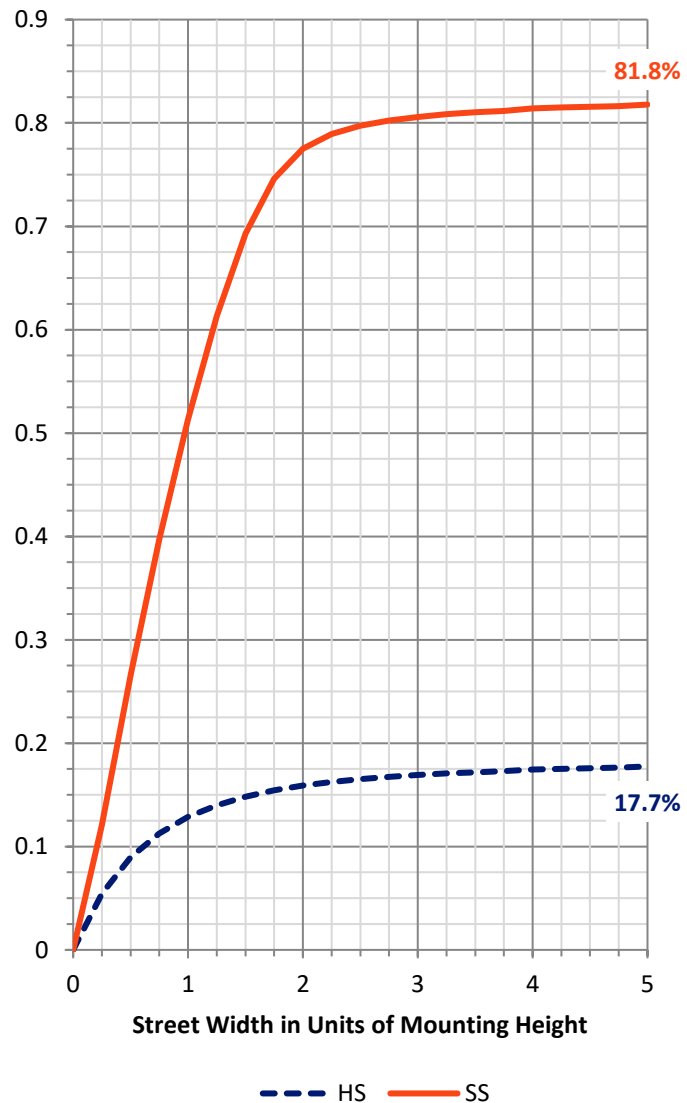
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10290.0  | 0.0    | 10290.0 |
|                    | % Fixture | 18.0     | 0.0    | 18.0    |
| <b>Street Side</b> | Lumens    | 46925.0  | 0.0    | 46925.0 |
|                    | % Fixture | 82.0     | 0.0    | 82.0    |
| <b>Total</b>       | Lumens    | 57215.0  | 0.0    | 57215.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 705.1   | 1.2       |
| 10°-20°   | 2290.7  | 4.0       |
| 20°-30°   | 4003.1  | 7.0       |
| 30°-40°   | 5954.2  | 10.4      |
| 40°-50°   | 8772.7  | 15.3      |
| 50°-60°   | 12281.9 | 21.5      |
| 60°-70°   | 13736.9 | 24.0      |
| 70°-80°   | 8391.0  | 14.7      |
| 80°-90°   | 1079.4  | 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°    | 57215.0 | 100.0     |
| 0°-180°   | 57215.0 | 100.0     |

**Coefficient of Utilization**



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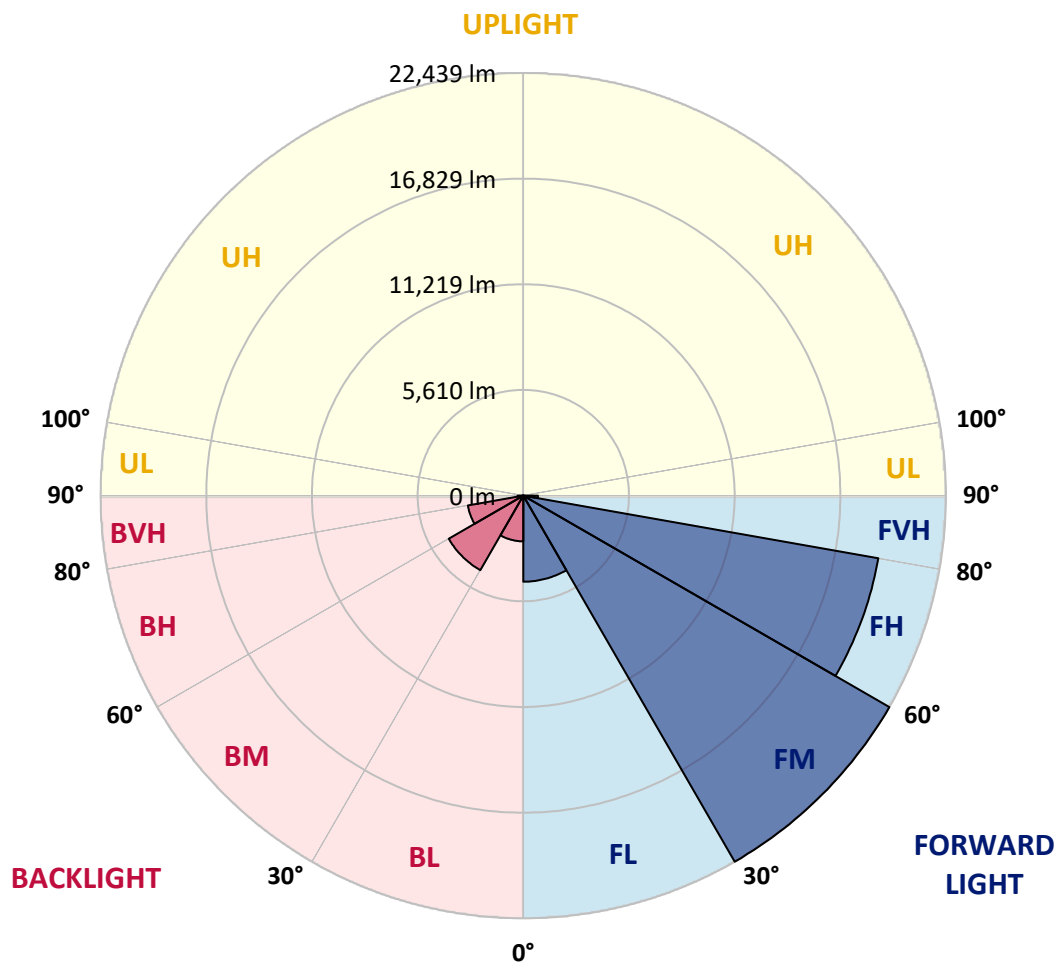
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4571.5  | 8.0       |                         |      |         |
| FM   | (30°-60°)   | 22438.6 | 39.2      |                         |      |         |
| FH   | (60°-80°)   | 19138.2 | 33.4      |                         |      | G5      |
| FVH  | (80°-90°)   | 776.7   | 1.4       |                         |      | G5      |
| BL   | (0°-30°)    | 2427.4  | 4.2       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4570.2  | 8.0       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2989.7  | 5.2       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 302.7   | 0.5       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 71°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7022.0  | 7022.0  | 7022.0  | 7022.0  | 7022.0  | 7022.0  | 7022.0  | 7022.0  | 7022.0  | 7022.0  | 7022.0  |
| 2.5°  | 7795.6  | 7757.9  | 7761.0  | 7707.5  | 7638.4  | 7562.9  | 7456.0  | 7361.6  | 7286.2  | 7242.1  | 7113.2  |
| 5°    | 8638.4  | 8600.6  | 8553.5  | 8437.1  | 8386.8  | 8201.3  | 7965.4  | 7751.6  | 7588.1  | 7496.9  | 7239.0  |
| 7.5°  | 9320.8  | 9311.3  | 9298.7  | 9232.7  | 9103.8  | 8845.9  | 8644.7  | 8273.6  | 8031.4  | 7858.5  | 7418.2  |
| 10°   | 9742.1  | 9757.9  | 9767.3  | 9779.9  | 9726.4  | 9591.2  | 9314.5  | 8845.9  | 8537.7  | 8317.6  | 7650.9  |
| 12.5° | 9956.0  | 9971.7  | 10025.2 | 10141.5 | 10213.8 | 10198.1 | 9971.7  | 9512.6  | 9088.1  | 8798.7  | 7899.4  |
| 15°   | 10088.1 | 10113.2 | 10207.5 | 10361.6 | 10603.8 | 10757.9 | 10647.8 | 10223.3 | 9757.9  | 9415.1  | 8195.0  |
| 17.5° | 10232.7 | 10261.0 | 10364.8 | 10584.9 | 10902.5 | 11235.8 | 11355.3 | 10990.6 | 10484.3 | 10075.5 | 8525.2  |
| 20°   | 10314.5 | 10352.2 | 10500.0 | 10789.3 | 11160.4 | 11644.7 | 12040.9 | 11849.1 | 11295.6 | 10842.8 | 8905.7  |
| 22.5° | 10446.5 | 10478.0 | 10603.8 | 10911.9 | 11355.3 | 11962.3 | 12726.4 | 12685.5 | 12198.1 | 11613.2 | 9323.9  |
| 25°   | 10805.0 | 10855.3 | 10918.2 | 11103.8 | 11531.4 | 12286.2 | 13295.6 | 13578.6 | 13072.3 | 12418.2 | 9707.5  |
| 27.5° | 11481.1 | 11522.0 | 11518.9 | 11544.0 | 11786.2 | 12566.0 | 13789.3 | 14462.3 | 13940.3 | 13232.7 | 10078.6 |
| 30°   | 12251.6 | 12267.3 | 12279.9 | 12223.3 | 12276.7 | 12852.2 | 14242.1 | 15336.5 | 14814.5 | 14069.2 | 10402.5 |
| 32.5° | 13188.7 | 13220.1 | 13113.2 | 12968.6 | 12924.5 | 13276.7 | 14616.4 | 16210.7 | 15849.1 | 14918.2 | 10723.3 |
| 35°   | 14295.6 | 14377.4 | 14160.4 | 13905.7 | 13726.4 | 13886.8 | 15119.5 | 17103.8 | 16908.8 | 16003.1 | 11147.8 |
| 37.5° | 15559.7 | 15660.4 | 15459.1 | 14959.1 | 14704.4 | 14748.4 | 15776.7 | 18207.5 | 18248.4 | 17239.0 | 11779.9 |
| 40°   | 16594.3 | 16726.4 | 16732.7 | 16025.2 | 15638.4 | 15688.7 | 16610.1 | 19396.2 | 19864.8 | 18767.3 | 12525.2 |
| 42.5° | 17276.7 | 17405.7 | 17540.9 | 17125.8 | 16720.1 | 17006.3 | 17581.8 | 20685.5 | 21682.4 | 20622.6 | 13566.0 |
| 45°   | 18025.2 | 18141.5 | 18217.0 | 18028.3 | 17801.9 | 18544.0 | 18754.7 | 22056.6 | 23619.5 | 22695.0 | 14704.4 |
| 47.5° | 18893.1 | 19022.0 | 19094.3 | 18915.1 | 18830.2 | 19893.1 | 20018.9 | 23336.5 | 25688.7 | 24707.5 | 15962.3 |
| 50°   | 20050.3 | 20147.8 | 20110.1 | 19996.9 | 19978.0 | 20927.7 | 21232.7 | 24534.6 | 27396.2 | 26874.2 | 17267.3 |
| 52.5° | 21490.6 | 21606.9 | 21647.8 | 21487.4 | 21415.1 | 21666.7 | 22210.7 | 25625.8 | 28949.7 | 28735.8 | 18660.4 |
| 55°   | 22361.6 | 22547.2 | 23169.8 | 23421.4 | 23594.3 | 22622.6 | 23264.2 | 26830.2 | 30342.8 | 30698.1 | 20157.2 |
| 57.5° | 21245.3 | 21484.3 | 22877.4 | 24135.2 | 25761.0 | 25012.6 | 24757.9 | 28088.1 | 31735.8 | 32600.6 | 21949.7 |
| 60°   | 18522.0 | 18575.5 | 20371.1 | 22688.7 | 25959.1 | 28084.9 | 27874.2 | 30088.1 | 33245.3 | 34518.9 | 24311.3 |
| 62.5° | 12849.1 | 12962.3 | 15084.9 | 18783.0 | 23512.6 | 29191.8 | 33176.1 | 33540.9 | 35408.8 | 37389.9 | 27773.6 |
| 65°   | 6625.8  | 6478.0  | 8411.9  | 11805.0 | 17726.4 | 26562.9 | 37471.7 | 39889.9 | 40100.6 | 41880.5 | 32647.8 |
| 67.5° | 4078.6  | 4144.7  | 5050.3  | 6893.1  | 10481.1 | 19305.0 | 37022.0 | 47647.8 | 46537.7 | 47393.1 | 37173.0 |
| 70°   | 3062.9  | 3144.7  | 3767.3  | 4717.0  | 6389.9  | 11037.7 | 29773.6 | 49528.3 | 51078.6 | 50858.5 | 38550.3 |
| 71°   | 2663.5  | 2748.4  | 3396.2  | 4292.5  | 5367.9  | 8518.9  | 25084.9 | 47559.7 | 51235.8 | 51198.1 | 38031.4 |
| 72.5° | 2270.4  | 2323.9  | 2830.2  | 3635.2  | 4525.2  | 5971.7  | 18845.9 | 42654.1 | 49050.3 | 50305.0 | 36179.2 |
| 75°   | 1783.0  | 1823.9  | 2050.3  | 2773.6  | 3562.9  | 3666.7  | 10113.2 | 31978.0 | 40286.2 | 42676.1 | 30119.5 |
| 77.5° | 1452.8  | 1481.1  | 1597.5  | 2059.7  | 2748.4  | 2597.5  | 5305.0  | 20814.5 | 25239.0 | 27644.7 | 17742.1 |
| 80°   | 1154.1  | 1185.5  | 1254.7  | 1396.2  | 2059.7  | 1852.2  | 2531.4  | 10547.2 | 12191.8 | 12166.7 | 7081.8  |
| 82.5° | 896.2   | 905.7   | 987.4   | 1025.2  | 1408.8  | 1314.5  | 1371.1  | 4465.4  | 4946.5  | 5110.1  | 2556.6  |
| 85°   | 566.0   | 594.3   | 874.2   | 786.2   | 842.8   | 770.4   | 676.1   | 1773.6  | 2185.5  | 2154.1  | 1022.0  |
| 87.5° | 173.0   | 182.4   | 295.6   | 333.3   | 374.2   | 336.5   | 248.4   | 522.0   | 638.4   | 691.8   | 254.7   |
| 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°    | 7022.0  | 7022.0 | 7022.0 | 7022.0 | 7022.0 | 7022.0 | 7022.0 | 7022.0 | 7022.0 | 7022.0 | 7022.0 |
| 2.5°  | 7062.9  | 7028.3 | 6905.7 | 6805.0 | 6710.7 | 6606.9 | 6518.9 | 6493.7 | 6471.7 | 6462.3 | 6459.1 |
| 5°    | 7128.9  | 7025.2 | 6783.0 | 6584.9 | 6427.7 | 6283.0 | 6191.8 | 6150.9 | 6110.1 | 6110.1 | 6122.6 |
| 7.5°  | 7223.3  | 7034.6 | 6660.4 | 6364.8 | 6166.7 | 6031.4 | 5965.4 | 5959.1 | 5968.6 | 5978.0 | 5981.1 |
| 10°   | 7327.0  | 7028.3 | 6481.1 | 6113.2 | 5937.1 | 5874.2 | 5877.4 | 5930.8 | 5981.1 | 6018.9 | 6025.2 |
| 12.5° | 7427.7  | 6990.6 | 6270.4 | 5877.4 | 5764.2 | 5776.7 | 5864.8 | 5984.3 | 6081.8 | 6135.2 | 6138.4 |
| 15°   | 7540.9  | 6930.8 | 6015.7 | 5654.1 | 5616.4 | 5713.8 | 5877.4 | 6059.7 | 6207.5 | 6295.6 | 6305.0 |
| 17.5° | 7635.2  | 6830.2 | 5748.4 | 5437.1 | 5484.3 | 5663.5 | 5889.9 | 6125.8 | 6305.0 | 6415.1 | 6434.0 |
| 20°   | 7742.1  | 6701.3 | 5471.7 | 5229.6 | 5364.8 | 5606.9 | 5864.8 | 6119.5 | 6305.0 | 6411.9 | 6437.1 |
| 22.5° | 7827.0  | 6518.9 | 5207.5 | 5059.7 | 5257.9 | 5537.7 | 5779.9 | 5984.3 | 6135.2 | 6191.8 | 6229.6 |
| 25°   | 7861.6  | 6289.3 | 4959.1 | 4921.4 | 5173.0 | 5424.5 | 5588.1 | 5704.4 | 5751.6 | 5745.3 | 5761.0 |
| 27.5° | 7842.8  | 6025.2 | 4745.3 | 4811.3 | 5066.0 | 5248.4 | 5330.2 | 5320.8 | 5235.8 | 5157.2 | 5195.0 |
| 30°   | 7764.2  | 5710.7 | 4566.0 | 4698.1 | 4927.7 | 5028.3 | 5015.7 | 4893.1 | 4732.7 | 4584.9 | 4594.3 |
| 32.5° | 7622.6  | 5371.1 | 4399.4 | 4569.2 | 4732.7 | 4776.7 | 4691.8 | 4531.4 | 4301.9 | 4110.1 | 4081.8 |
| 35°   | 7503.1  | 5047.2 | 4251.6 | 4421.4 | 4537.7 | 4515.7 | 4434.0 | 4226.4 | 4018.9 | 3849.1 | 3820.8 |
| 37.5° | 7484.3  | 4770.4 | 4110.1 | 4254.7 | 4320.8 | 4289.3 | 4188.7 | 4012.6 | 3937.1 | 3808.2 | 3792.5 |
| 40°   | 7584.9  | 4575.5 | 3965.4 | 4078.6 | 4110.1 | 4084.9 | 3974.8 | 3874.2 | 3943.4 | 3911.9 | 3911.9 |
| 42.5° | 7858.5  | 4471.7 | 3836.5 | 3902.5 | 3927.7 | 3946.5 | 3867.9 | 3783.0 | 3867.9 | 3723.3 | 3676.1 |
| 45°   | 8292.5  | 4474.8 | 3720.1 | 3729.6 | 3805.0 | 3871.1 | 3817.6 | 3691.8 | 3647.8 | 3358.5 | 3301.9 |
| 47.5° | 8930.8  | 4581.8 | 3625.8 | 3566.0 | 3701.3 | 3811.3 | 3735.8 | 3553.5 | 3358.5 | 3166.7 | 3132.1 |
| 50°   | 9676.1  | 4773.6 | 3540.9 | 3396.2 | 3562.9 | 3735.8 | 3679.2 | 3465.4 | 3264.2 | 3147.8 | 3125.8 |
| 52.5° | 10503.1 | 5015.7 | 3437.1 | 3207.5 | 3393.1 | 3701.3 | 3691.8 | 3452.8 | 3176.1 | 3097.5 | 3078.6 |
| 55°   | 11525.2 | 5254.7 | 3308.2 | 2987.4 | 3242.1 | 3673.0 | 3657.2 | 3349.1 | 3157.2 | 3100.6 | 3094.3 |
| 57.5° | 12713.8 | 5600.6 | 3122.6 | 2764.2 | 3069.2 | 3556.6 | 3522.0 | 3286.2 | 3094.3 | 3053.5 | 3050.3 |
| 60°   | 14628.9 | 6138.4 | 2858.5 | 2559.7 | 2893.1 | 3352.2 | 3396.2 | 3179.2 | 2993.7 | 2984.3 | 2981.1 |
| 62.5° | 17147.8 | 6893.1 | 2584.9 | 2349.1 | 2688.7 | 3088.1 | 3213.8 | 3034.6 | 2886.8 | 2934.0 | 2940.3 |
| 65°   | 20625.8 | 7528.3 | 2301.9 | 2169.8 | 2462.3 | 2833.3 | 3040.9 | 2899.4 | 2767.3 | 2858.5 | 2858.5 |
| 67.5° | 22893.1 | 7540.9 | 2044.0 | 1984.3 | 2232.7 | 2619.5 | 2858.5 | 2739.0 | 2613.2 | 2767.3 | 2773.6 |
| 70°   | 22421.4 | 6606.9 | 1830.2 | 1789.3 | 2009.4 | 2389.9 | 2657.2 | 2562.9 | 2418.2 | 2556.6 | 2506.3 |
| 71°   | 21660.4 | 6088.1 | 1745.3 | 1713.8 | 1921.4 | 2279.9 | 2562.9 | 2484.3 | 2339.6 | 2430.8 | 2402.5 |
| 72.5° | 20446.5 | 5286.2 | 1606.9 | 1613.2 | 1789.3 | 2141.5 | 2430.8 | 2349.1 | 2204.4 | 2254.7 | 2245.3 |
| 75°   | 17283.0 | 4616.4 | 1374.2 | 1402.5 | 1537.7 | 1905.7 | 2166.7 | 2103.8 | 1956.0 | 1956.0 | 1946.5 |
| 77.5° | 10805.0 | 3226.4 | 1141.5 | 1157.2 | 1305.0 | 1632.1 | 1861.6 | 1808.2 | 1666.7 | 1619.5 | 1606.9 |
| 80°   | 4031.4  | 1666.7 | 893.1  | 911.9  | 1003.1 | 1286.2 | 1540.9 | 1490.6 | 1345.9 | 1292.5 | 1242.1 |
| 82.5° | 1525.2  | 836.5  | 657.2  | 641.5  | 739.0  | 981.1  | 1207.5 | 1147.8 | 1034.6 | 905.7  | 867.9  |
| 85°   | 575.5   | 415.1  | 402.5  | 389.9  | 434.0  | 581.8  | 748.4  | 735.8  | 616.4  | 525.2  | 515.7  |
| 87.5° | 150.9   | 135.2  | 157.2  | 116.4  | 122.6  | 110.1  | 113.2  | 47.2   | 22.0   | 9.4    | 6.3    |
| 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)