

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: P579377

Luminaire Tested: **CST-CA10-210-722-U-T5-HSS-HM-EX180**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579377  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/18/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA10-210-722-U-T5-HSS-HM-EX180  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (10) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17541 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U2 - G3

Input Watts (W): 212.9  
Input Voltage (V): 120  
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

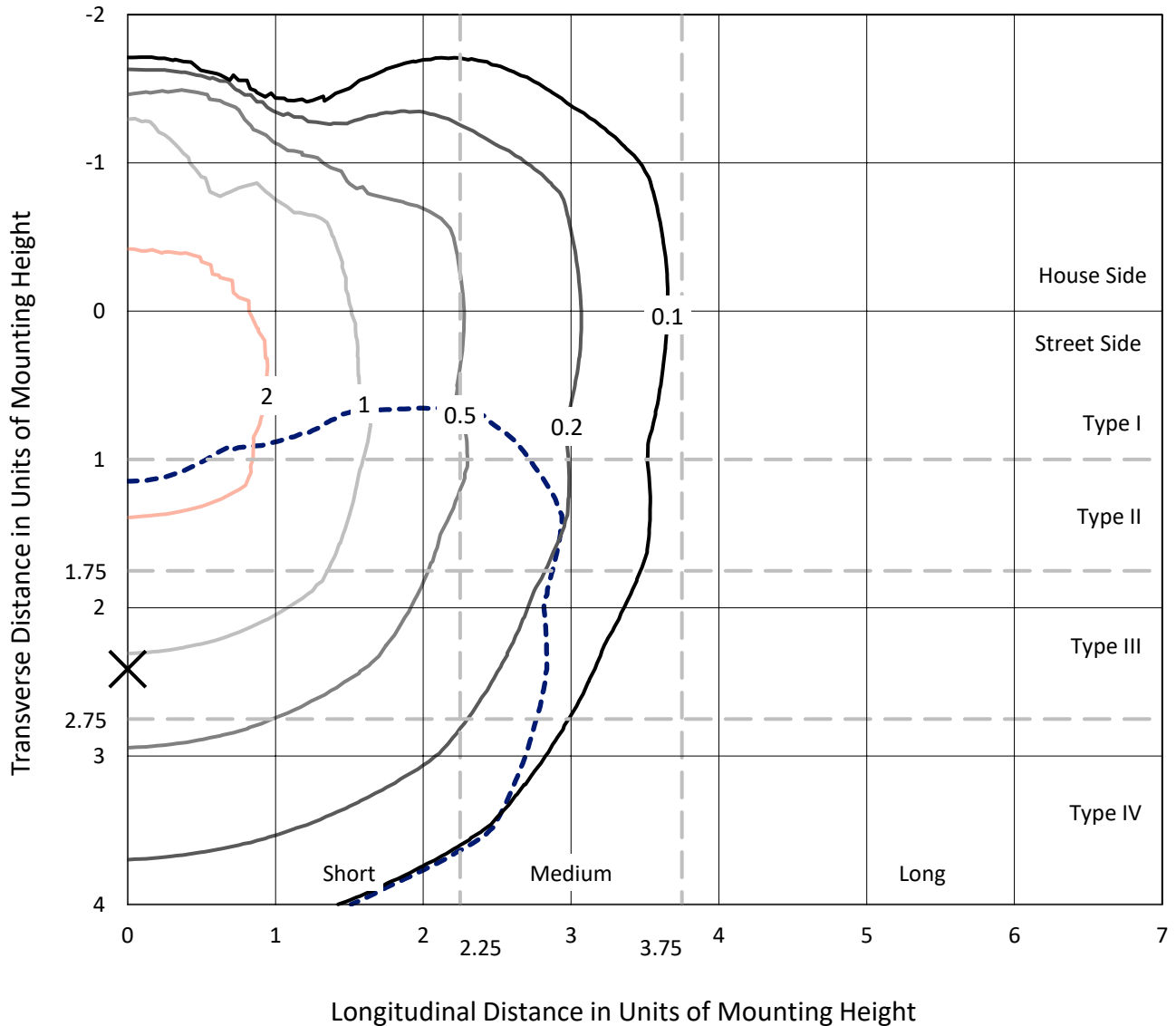




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 CATALOG NUMBER: CST-CA10-210-722-U-T5-HSS-HM-EX180

### Iso-Footcandle Lines of Horizontal Illumination

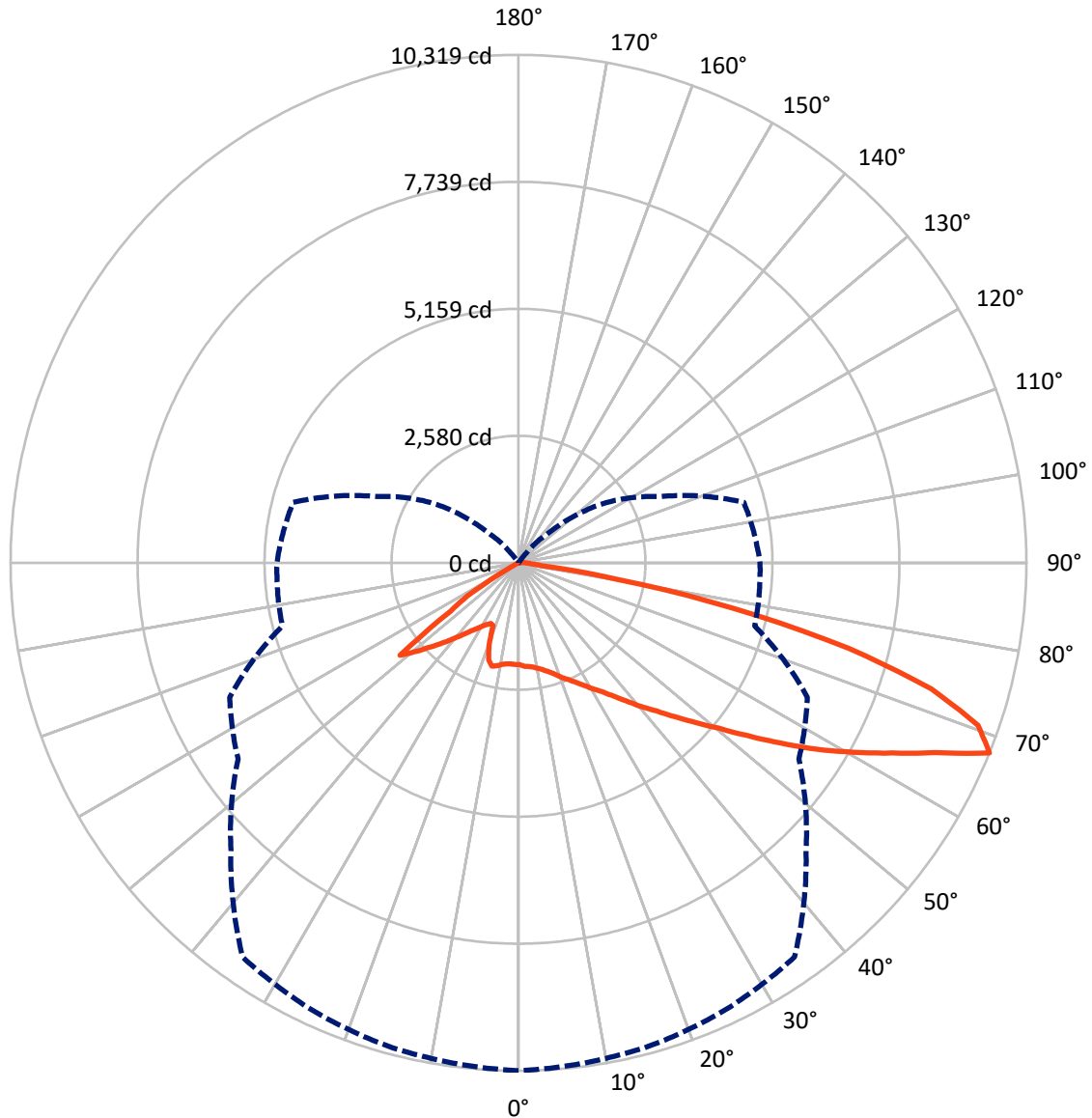
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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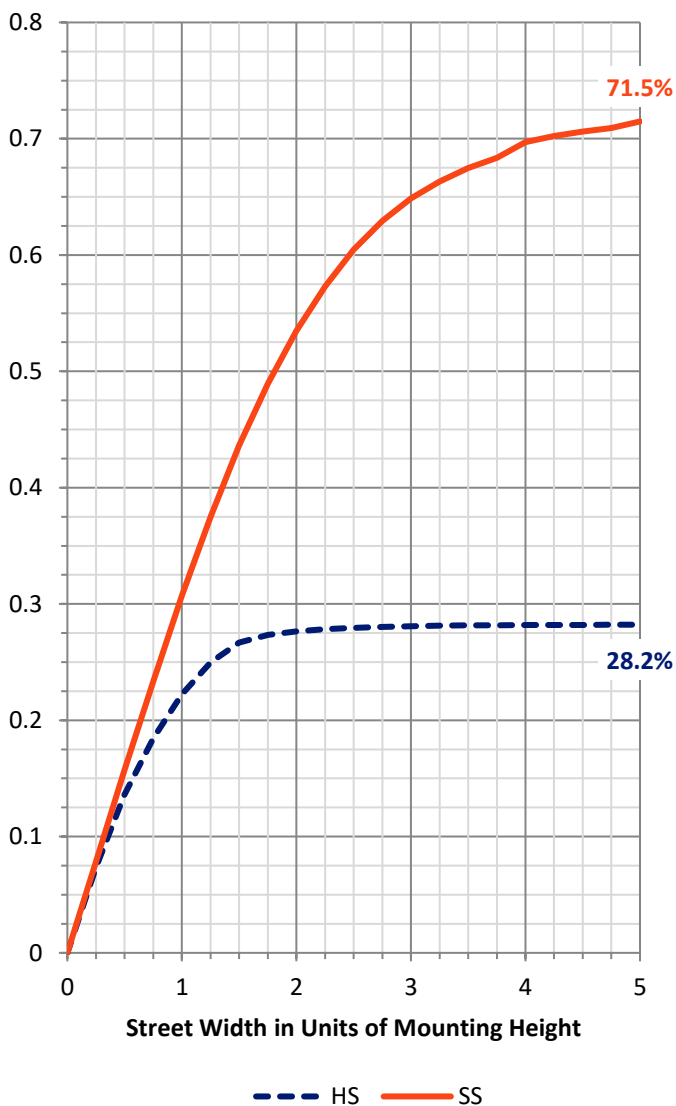
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4971.5   | 0.1    | 4971.5  |
|                    | % Fixture | 28.3     | 0.0    | 28.3    |
| <b>Street Side</b> | Lumens    | 12547.1  | 22.3   | 12569.5 |
|                    | % Fixture | 71.5     | 0.1    | 71.7    |
| <b>Total</b>       | Lumens    | 17518.6  | 22.4   | 17541.0 |
|                    | % Fixture | 99.9     | 0.1    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 199.2   | 1.1       |
| 10°-20°   | 613.3   | 3.5       |
| 20°-30°   | 1015.6  | 5.8       |
| 30°-40°   | 1598.7  | 9.1       |
| 40°-50°   | 2501.9  | 14.3      |
| 50°-60°   | 3612.3  | 20.6      |
| 60°-70°   | 4475.1  | 25.5      |
| 70°-80°   | 3259.1  | 18.6      |
| 80°-90°   | 243.5   | 1.4       |
| 90°-100°  | 19.1    | 0.1       |
| 100°-110° | 3.2     | 0.0       |
| 110°-120° | 0.1     | 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°    | 17518.6 | 99.9      |
| 0°-180°   | 17541.0 | 100.0     |

**Coefficient of Utilization**



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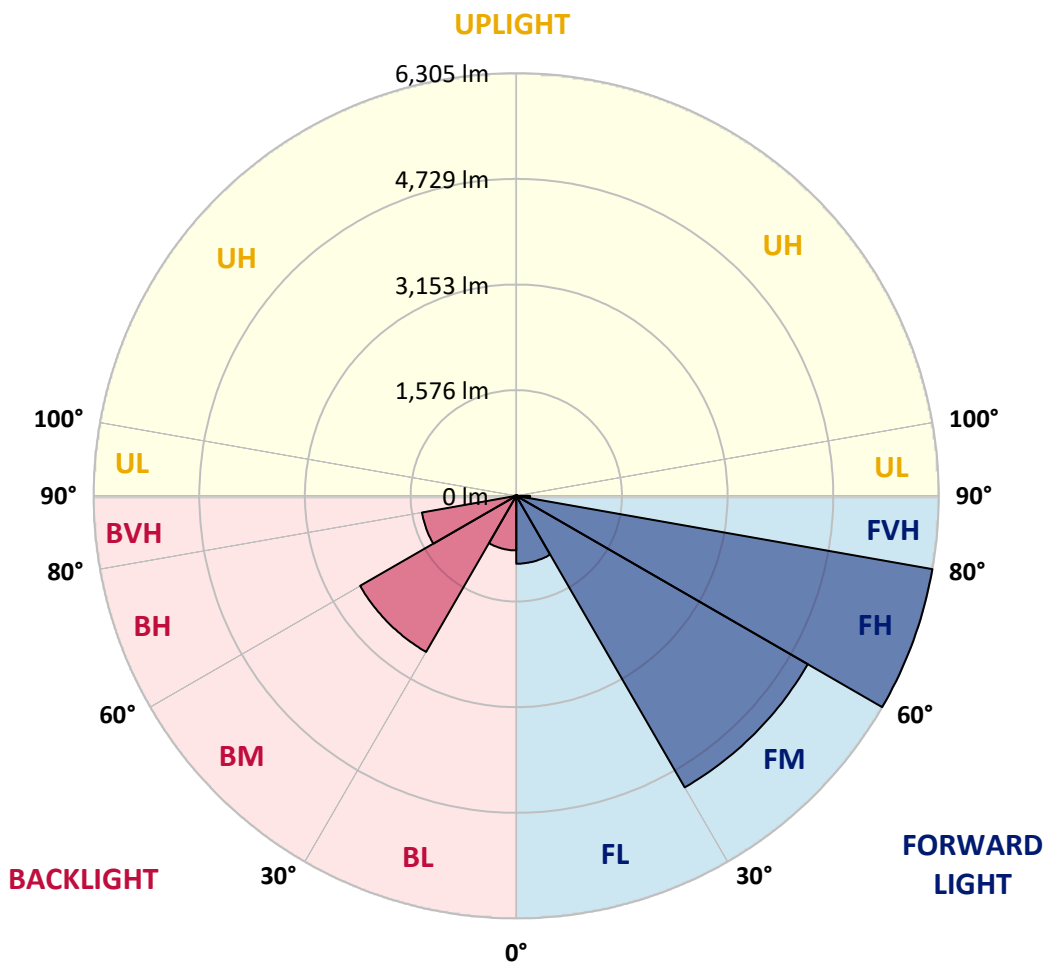
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |       |         |
|----------------|--------|-----------|-------------------------|-------|---------|
|                |        |           | B                       | U     | G       |
| FL (0°-30°)    | 1013.1 | 5.8       |                         |       |         |
| FM (30°-60°)   | 5023.2 | 28.6      |                         |       |         |
| FH (60°-80°)   | 6305.4 | 35.9      |                         |       | G3/7500 |
| FVH (80°-90°)  | 205.4  | 1.2       |                         |       | G2/225  |
| BL (0°-30°)    | 815.0  | 4.6       | B2/1000                 |       |         |
| BM (30°-60°)   | 2689.7 | 15.3      | B3/5000                 |       |         |
| BH (60°-80°)   | 1428.7 | 8.1       | B3/2500                 |       | G3/2500 |
| BVH (80°-90°)  | 38.1   | 0.2       |                         |       | G1/100  |
| UL (90°-100°)  | 19.1   | 0.1       |                         | U2/50 |         |
| UH (100°-180°) | 3.3    | 0.0       |                         | U1/10 |         |

**BUG Rating: B3-U2-G3**

Type IV Short





REPORT NUMBER: P579377

CATALOG NUMBER: CST-CA10-210-722-U-T5-HSS-HM-EX180

**CANDELA DISTRIBUTION (FULL):**

|        | 0°      | 5°      | 15°     | 25°     | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|--------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2065.9  | 2065.9  | 2065.9  | 2065.9  | 2065.9 | 2065.9 | 2065.9 | 2065.9 | 2065.9 | 2065.9 | 2065.9 |
| 2.5°   | 2103.7  | 2092.3  | 2092.3  | 2104.6  | 2070.3 | 2080.8 | 2066.8 | 2079.1 | 2072.0 | 2075.5 | 2079.9 |
| 5°     | 2116.0  | 2102.8  | 2103.7  | 2118.6  | 2087.9 | 2096.6 | 2079.9 | 2086.1 | 2079.9 | 2082.6 | 2082.6 |
| 7.5°   | 2138.8  | 2127.4  | 2127.4  | 2136.2  | 2105.4 | 2108.1 | 2093.1 | 2093.1 | 2085.2 | 2091.4 | 2086.1 |
| 10°    | 2181.9  | 2169.6  | 2163.5  | 2167.9  | 2140.6 | 2137.1 | 2116.9 | 2116.9 | 2104.6 | 2114.2 | 2106.3 |
| 12.5°  | 2233.8  | 2216.2  | 2214.4  | 2215.3  | 2184.6 | 2178.4 | 2155.5 | 2156.4 | 2133.6 | 2146.8 | 2137.1 |
| 15°    | 2296.2  | 2274.2  | 2272.5  | 2276.0  | 2243.5 | 2232.0 | 2206.5 | 2206.5 | 2181.0 | 2188.1 | 2174.9 |
| 17.5°  | 2376.2  | 2350.7  | 2346.3  | 2352.5  | 2319.9 | 2309.4 | 2279.5 | 2274.2 | 2246.1 | 2240.8 | 2229.4 |
| 20°    | 2481.7  | 2452.7  | 2443.9  | 2457.1  | 2415.8 | 2406.1 | 2370.0 | 2358.6 | 2320.8 | 2258.4 | 2176.6 |
| 22.5°  | 2576.6  | 2553.8  | 2548.5  | 2557.3  | 2519.5 | 2509.8 | 2474.7 | 2450.9 | 2359.5 | 2233.8 | 2158.2 |
| 25°    | 2684.8  | 2676.0  | 2673.3  | 2668.1  | 2633.8 | 2617.1 | 2583.7 | 2550.3 | 2342.8 | 2170.5 | 2168.7 |
| 27.5°  | 2818.4  | 2814.0  | 2801.7  | 2797.3  | 2759.5 | 2748.9 | 2705.0 | 2489.6 | 2283.0 | 2270.7 | 2263.7 |
| 30°    | 2964.3  | 2955.5  | 2943.2  | 2944.1  | 2918.6 | 2899.3 | 2794.6 | 2436.0 | 2398.2 | 2398.2 | 2379.7 |
| 32.5°  | 3126.1  | 3116.4  | 3104.1  | 3106.7  | 3096.2 | 3079.5 | 2764.8 | 2577.5 | 2548.5 | 2556.4 | 2533.6 |
| 35°    | 3326.5  | 3310.7  | 3306.3  | 3316.8  | 3317.7 | 3209.6 | 2817.5 | 2770.0 | 2747.2 | 2741.9 | 2655.8 |
| 37.5°  | 3560.3  | 3547.2  | 3563.0  | 3587.6  | 3559.5 | 3243.0 | 3027.6 | 3012.7 | 2989.8 | 2862.3 | 2658.4 |
| 40°    | 3840.8  | 3817.0  | 3836.4  | 3852.2  | 3833.7 | 3441.7 | 3248.3 | 3253.5 | 3233.3 | 2855.3 | 2629.4 |
| 42.5°  | 4118.6  | 4095.7  | 4112.4  | 4152.0  | 4144.9 | 3687.8 | 3517.3 | 3528.7 | 3324.7 | 2872.0 | 2854.4 |
| 45°    | 4462.3  | 4454.4  | 4449.1  | 4481.6  | 4508.9 | 3982.3 | 3836.4 | 3835.5 | 3259.7 | 3137.5 | 3121.7 |
| 47.5°  | 4851.7  | 4841.2  | 4843.8  | 4885.1  | 4926.5 | 4333.9 | 4213.5 | 3860.1 | 3427.6 | 3439.9 | 3425.8 |
| 50°    | 5286.0  | 5274.6  | 5308.9  | 5368.6  | 5389.7 | 4728.7 | 4581.0 | 3793.3 | 3777.5 | 3790.7 | 3766.9 |
| 52.5°  | 5837.2  | 5811.7  | 5864.5  | 5928.6  | 5955.9 | 5195.5 | 4601.2 | 4188.0 | 4161.6 | 4164.3 | 4088.7 |
| 55°    | 6464.0  | 6443.8  | 6491.3  | 6563.3  | 6603.8 | 5716.8 | 5021.4 | 4572.2 | 4556.4 | 4108.0 | 3699.2 |
| 57.5°  | 7145.3  | 7122.4  | 7185.7  | 7206.8  | 7217.4 | 6255.7 | 5444.2 | 4988.9 | 4256.6 | 3751.1 | 3728.3 |
| 60°    | 7813.4  | 7788.8  | 7868.8  | 7872.3  | 7903.1 | 6793.7 | 5846.0 | 5390.6 | 4101.0 | 4034.2 | 4014.8 |
| 62.5°  | 8514.9  | 8484.2  | 8554.5  | 8551.9  | 8491.2 | 7286.0 | 6244.2 | 5776.5 | 4378.8 | 4326.0 | 4296.1 |
| 65°    | 9293.8  | 9271.0  | 9320.2  | 9241.1  | 9120.6 | 7795.0 | 6657.4 | 6196.8 | 4702.3 | 4692.6 | 4685.6 |
| 67.5°  | 10318.8 | 10274.0 | 10174.7 | 10005.9 | 9775.6 | 8261.8 | 6952.8 | 6473.7 | 4965.1 | 4920.3 | 4906.2 |
| 70°    | 9906.5  | 9853.8  | 9778.2  | 9592.7  | 9358.0 | 7823.1 | 6478.1 | 6055.2 | 4642.5 | 4644.3 | 4610.9 |
| 72.5°  | 8771.6  | 8680.2  | 8609.0  | 8348.8  | 8219.6 | 6832.3 | 5644.7 | 5255.2 | 4015.7 | 4090.4 | 4074.6 |
| 75°    | 6919.4  | 6826.2  | 6709.3  | 6607.3  | 6593.2 | 5541.8 | 4551.1 | 4270.7 | 3201.7 | 3256.2 | 3295.7 |
| 77.5°  | 4485.2  | 4450.9  | 4598.6  | 4501.9  | 4588.9 | 3816.2 | 3250.9 | 3010.0 | 2206.5 | 2344.6 | 2326.1 |
| 80°    | 2052.7  | 2013.1  | 2250.5  | 2183.7  | 2216.2 | 1874.2 | 1588.5 | 1526.1 | 998.7  | 1005.7 | 1026.8 |
| 82.5°  | 464.2   | 448.3   | 465.0   | 427.2   | 416.7  | 352.5  | 310.3  | 281.3  | 176.7  | 187.2  | 196.9  |
| 85°    | 254.1   | 254.1   | 250.5   | 233.0   | 199.6  | 164.4  | 130.1  | 100.2  | 54.5   | 59.8   | 58.9   |
| 87.5°  | 178.5   | 174.1   | 173.2   | 154.7   | 132.7  | 112.5  | 89.7   | 64.2   | 30.8   | 21.1   | 19.3   |
| 90°    | 122.2   | 120.4   | 114.3   | 102.9   | 88.8   | 73.0   | 54.5   | 31.6   | 13.2   | 6.2    | 4.4    |
| 92.5°  | 88.8    | 87.0    | 82.6    | 73.0    | 60.7   | 49.2   | 36.0   | 21.1   | 10.5   | 4.4    | 0.9    |
| 95°    | 58.9    | 58.0    | 55.4    | 47.5    | 39.6   | 31.6   | 22.9   | 13.2   | 8.8    | 3.5    | 0.9    |
| 97.5°  | 40.4    | 39.6    | 36.9    | 31.6    | 25.5   | 20.2   | 14.1   | 9.7    | 7.0    | 2.6    | 0.9    |
| 100°   | 27.3    | 26.4    | 24.6    | 20.2    | 15.8   | 12.3   | 8.8    | 7.0    | 5.3    | 2.6    | 0.9    |
| 102.5° | 17.6    | 16.7    | 14.9    | 12.3    | 8.8    | 7.0    | 6.2    | 5.3    | 3.5    | 1.8    | 0.9    |
| 105°   | 10.5    | 9.7     | 7.9     | 6.2     | 5.3    | 4.4    | 4.4    | 3.5    | 2.6    | 0.9    | 0.9    |
| 107.5° | 5.3     | 4.4     | 3.5     | 3.5     | 3.5    | 2.6    | 2.6    | 2.6    | 1.8    | 0.9    | 0.0    |
| 110°   | 0.9     | 0.9     | 1.8     | 1.8     | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 0.9    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |





REPORT NUMBER: P579377

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**CANDELA DISTRIBUTION (continued):**

|        | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2065.9 | 2065.9 | 2065.9 | 2065.9 | 2065.9 | 2065.9 | 2065.9 | 2065.9 | 2065.9 | 2065.9 |
| 2.5°   | 2075.5 | 2061.5 | 2069.4 | 2057.1 | 2054.4 | 2041.3 | 2062.4 | 2065.0 | 2063.2 | 2066.8 |
| 5°     | 2078.2 | 2063.2 | 2072.0 | 2057.1 | 2057.1 | 2043.0 | 2063.2 | 2063.2 | 2058.0 | 2059.7 |
| 7.5°   | 2085.2 | 2070.3 | 2076.4 | 2059.7 | 2060.6 | 2043.9 | 2068.5 | 2065.9 | 2061.5 | 2067.6 |
| 10°    | 2105.4 | 2088.7 | 2087.9 | 2072.0 | 2075.5 | 2058.0 | 2088.7 | 2088.7 | 2084.3 | 2095.8 |
| 12.5°  | 2138.0 | 2113.3 | 2109.0 | 2089.6 | 2096.6 | 2081.7 | 2119.5 | 2121.3 | 2122.1 | 2140.6 |
| 15°    | 2172.2 | 2142.4 | 2146.8 | 2123.9 | 2121.3 | 2113.3 | 2147.6 | 2145.9 | 2145.0 | 2170.5 |
| 17.5°  | 2220.6 | 2079.9 | 2057.1 | 2041.3 | 2037.7 | 2018.4 | 2050.1 | 2110.7 | 2079.1 | 2061.5 |
| 20°    | 2144.1 | 2070.3 | 1979.7 | 1949.0 | 1942.8 | 1774.9 | 1642.2 | 1701.9 | 1782.8 | 1789.8 |
| 22.5°  | 2074.7 | 2048.3 | 2041.3 | 1992.9 | 1724.8 | 1668.5 | 1673.8 | 1651.8 | 1460.2 | 1376.7 |
| 25°    | 2160.8 | 2138.0 | 2108.1 | 1812.7 | 1749.4 | 1729.2 | 1723.0 | 1498.0 | 1346.8 | 1356.4 |
| 27.5°  | 2256.6 | 2231.1 | 1970.9 | 1817.1 | 1831.2 | 1803.0 | 1664.1 | 1397.8 | 1389.0 | 1405.7 |
| 30°    | 2376.2 | 2172.2 | 1923.5 | 1914.7 | 1927.9 | 1891.8 | 1478.6 | 1459.3 | 1456.7 | 1474.2 |
| 32.5°  | 2512.5 | 2094.9 | 2050.1 | 2050.1 | 2043.9 | 1654.5 | 1557.8 | 1544.6 | 1551.6 | 1570.1 |
| 35°    | 2461.5 | 2216.2 | 2210.9 | 2232.9 | 2085.2 | 1697.5 | 1684.4 | 1661.5 | 1666.8 | 1672.9 |
| 37.5°  | 2405.2 | 2415.8 | 2418.4 | 2407.0 | 1520.8 | 1820.6 | 1810.1 | 1805.7 | 1800.4 | 1802.1 |
| 40°    | 2614.4 | 2621.5 | 2618.8 | 2514.2 | 1641.3 | 1844.3 | 1952.5 | 1944.6 | 1943.7 | 1954.2 |
| 42.5°  | 2858.8 | 2878.2 | 2863.2 | 2218.0 | 1802.1 | 1550.7 | 2116.9 | 2112.5 | 2110.7 | 2132.7 |
| 45°    | 3134.0 | 3152.4 | 2838.6 | 2375.3 | 1973.6 | 1605.2 | 2128.3 | 2291.8 | 2305.0 | 2324.3 |
| 47.5°  | 3432.0 | 3428.5 | 2619.7 | 2617.1 | 2174.9 | 1756.4 | 1769.6 | 2506.3 | 2528.3 | 2535.3 |
| 50°    | 3774.8 | 3211.3 | 2868.5 | 2771.8 | 2402.6 | 1926.1 | 1876.0 | 2299.7 | 2785.0 | 2792.0 |
| 52.5°  | 3701.9 | 3177.1 | 3154.2 | 2431.6 | 2606.5 | 2113.3 | 2064.1 | 2050.9 | 2887.0 | 3056.6 |
| 55°    | 3450.5 | 3476.8 | 3444.3 | 2668.1 | 1911.2 | 2280.4 | 2249.6 | 2236.4 | 2147.6 | 1700.2 |
| 57.5°  | 3730.0 | 3737.9 | 3709.8 | 2885.2 | 1943.7 | 1421.5 | 2214.4 | 1899.7 | 1234.3 | 1228.1 |
| 60°    | 4020.1 | 4033.3 | 2763.0 | 2119.5 | 1245.7 | 475.6  | 113.4  | 119.6  | 341.1  | 299.8  |
| 62.5°  | 4297.0 | 4310.2 | 2924.8 | 1936.7 | 786.8  | 35.2   | 22.9   | 15.8   | 17.6   | 17.6   |
| 65°    | 4658.3 | 4663.6 | 3130.5 | 2050.1 | 817.6  | 8.8    | 2.6    | 0.0    | 0.0    | 0.0    |
| 67.5°  | 4845.6 | 4737.5 | 3182.3 | 2101.9 | 839.5  | 5.3    | 1.8    | 0.0    | 0.0    | 0.0    |
| 70°    | 4562.5 | 4446.5 | 2962.6 | 1970.1 | 782.4  | 4.4    | 0.9    | 0.0    | 0.0    | 0.0    |
| 72.5°  | 4020.1 | 3963.8 | 2659.3 | 1746.8 | 692.7  | 2.6    | 0.9    | 0.0    | 0.0    | 0.0    |
| 75°    | 3331.8 | 3257.1 | 2204.8 | 1455.8 | 573.2  | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5°  | 2370.0 | 2378.8 | 1536.7 | 1061.1 | 390.3  | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°    | 1037.3 | 1061.1 | 673.4  | 487.0  | 138.0  | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5°  | 197.8  | 182.0  | 87.9   | 69.4   | 17.6   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°    | 65.1   | 71.2   | 32.5   | 26.4   | 7.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5°  | 22.9   | 29.0   | 9.7    | 7.9    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°    | 3.5    | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 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):**

|        | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

(END OF REPORT)