

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: P256743

Luminaire Tested: **CST-10-9-D-U-T5R-7030-HSS-HM-EX180**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256743  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-894-7)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-10-9-D-U-T5R-7030-HSS-HM-EX180  
Description: CELESTEON HIGH MAST LUMINAIRE  
(10) 70 CRI, 3000K LEDS AND TYPE V ROUND WITH EXTERNAL FIELD INSTALLED  
180 DEGREE SHIELD - BLACK  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 59974 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B5 - U2 - G5

Input Watts (W): 760  
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

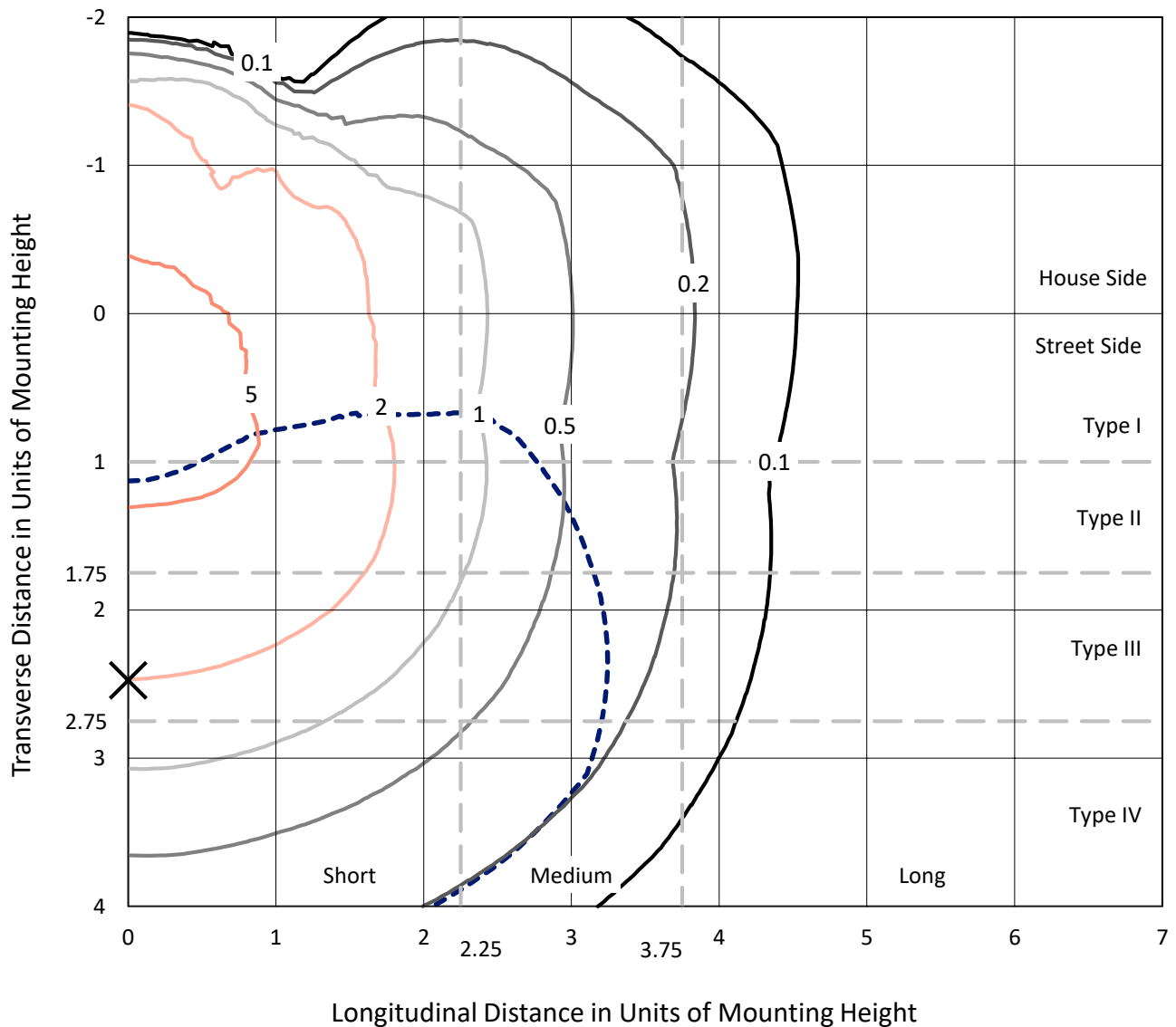


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

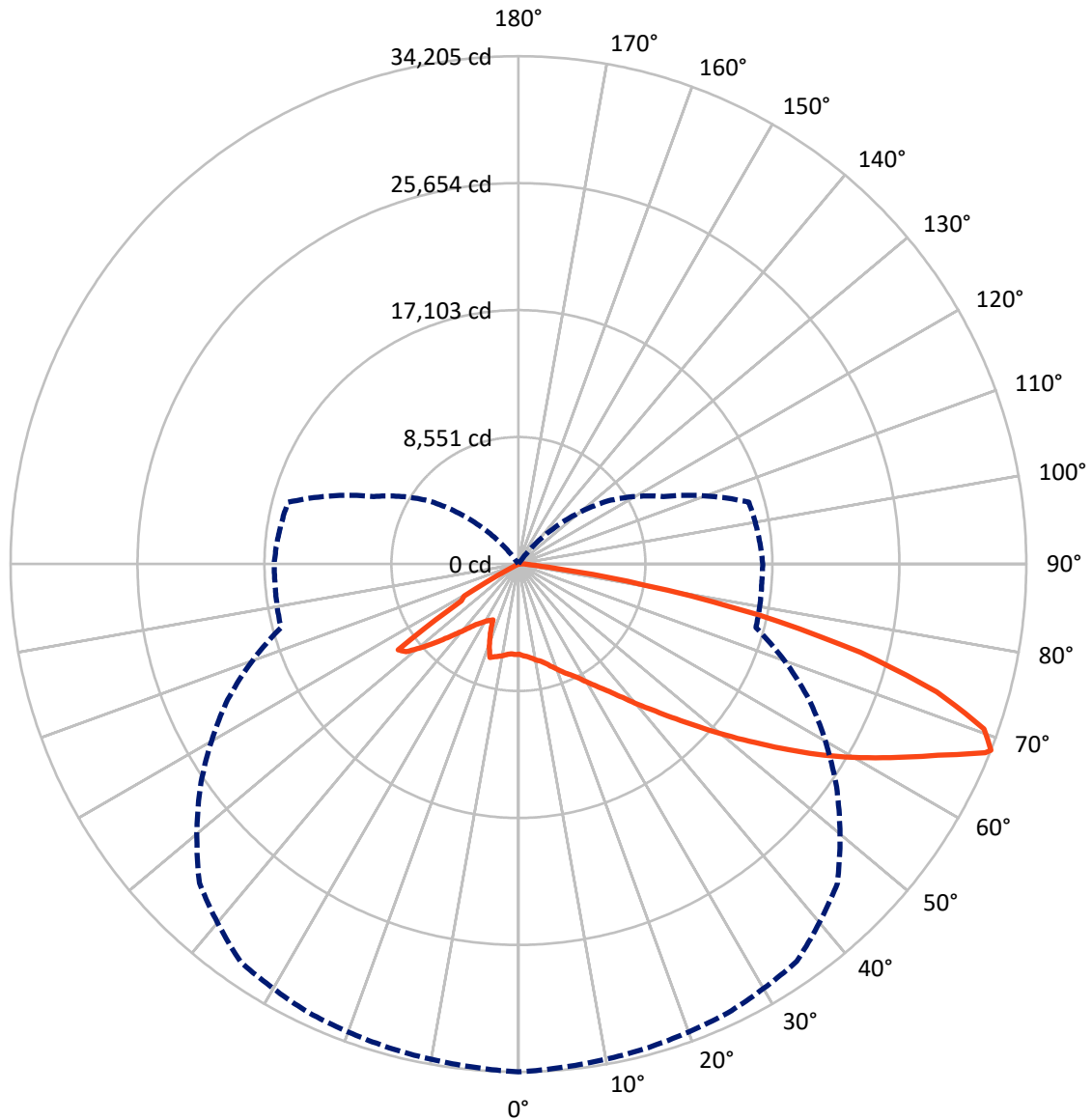


Based on 30 foot mounting height. Maximum calculated value = 7 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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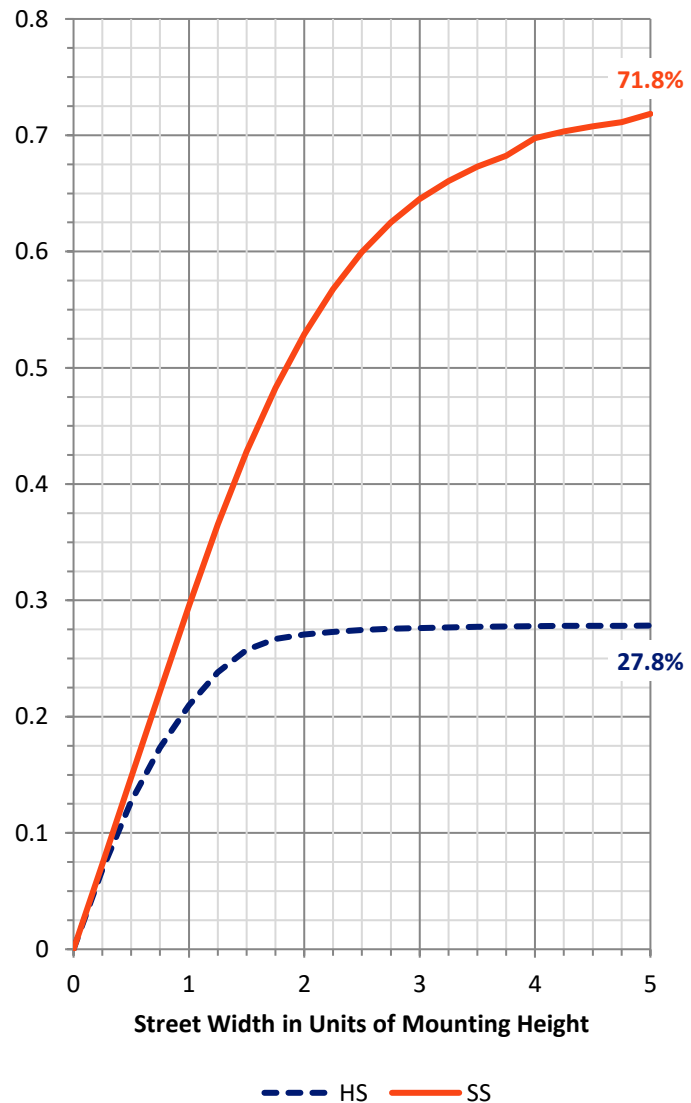
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 16750.8  | 0.4    | 16751.2 |
|                    | % Fixture | 27.9     | 0.0    | 27.9    |
| <b>Street Side</b> | Lumens    | 43188.5  | 34.4   | 43222.8 |
|                    | % Fixture | 72.0     | 0.1    | 72.1    |
| <b>Total</b>       | Lumens    | 59939.3  | 34.7   | 59974.0 |
|                    | % Fixture | 99.9     | 0.1    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 589.7   | 1.0       |
| 10°-20°   | 1868.6  | 3.1       |
| 20°-30°   | 3163.6  | 5.3       |
| 30°-40°   | 5011.8  | 8.4       |
| 40°-50°   | 8194.0  | 13.7      |
| 50°-60°   | 12551.1 | 20.9      |
| 60°-70°   | 15432.6 | 25.7      |
| 70°-80°   | 11924.6 | 19.9      |
| 80°-90°   | 1203.2  | 2.0       |
| 90°-100°  | 34.2    | 0.1       |
| 100°-110° | 0.6     | 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°    | 59939.3 | 99.9      |
| 0°-180°   | 59974.0 | 100.0     |



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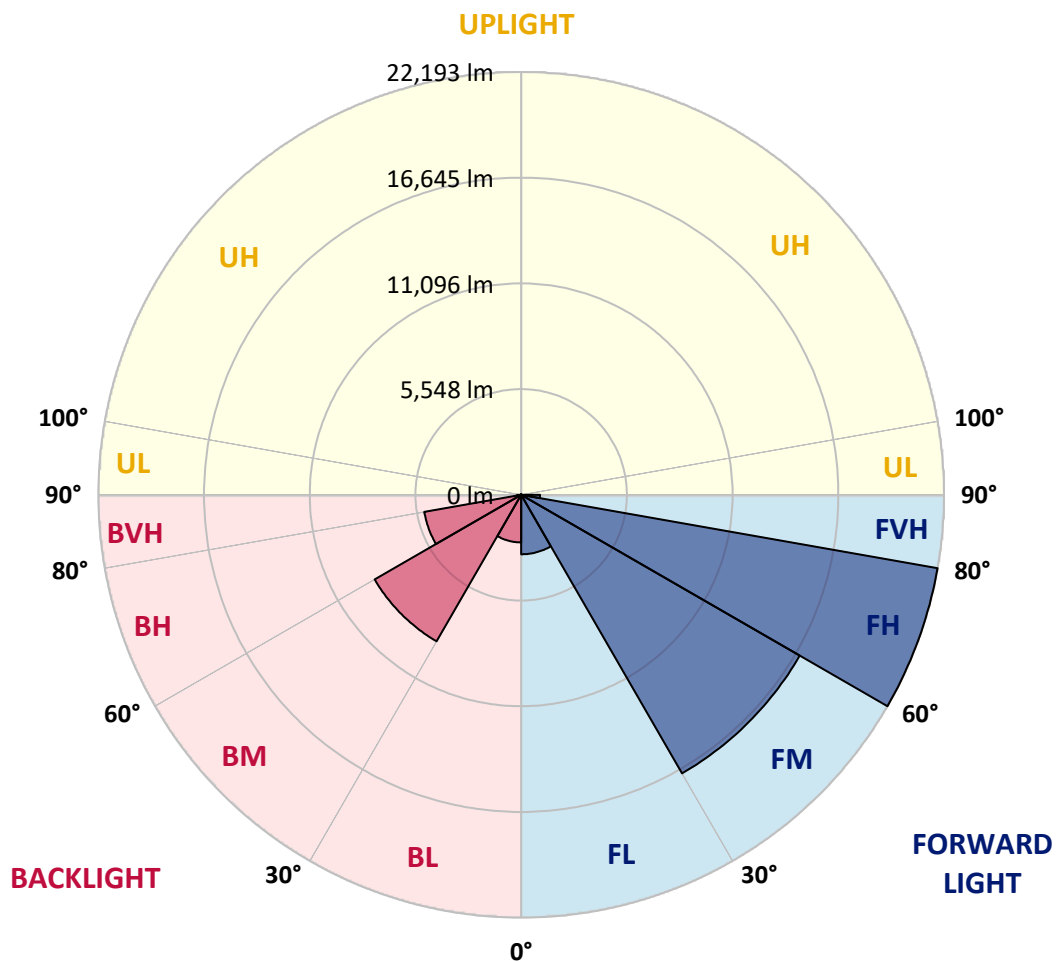
CATALOG NUMBER: CST-10-9-D-U-T5R-7030-HSS-HM-EX180

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |       |        |
|------|-------------|---------|-----------|-------------------------|-------|--------|
|      |             |         |           | B                       | U     | G      |
| FL   | (0°-30°)    | 3121.7  | 5.2       |                         |       |        |
| FM   | (30°-60°)   | 16881.7 | 28.1      |                         |       |        |
| FH   | (60°-80°)   | 22192.9 | 37.0      |                         |       | G5     |
| FVH  | (80°-90°)   | 992.2   | 1.7       |                         |       | G5     |
| BL   | (0°-30°)    | 2500.2  | 4.2       | B4/5000                 |       |        |
| BM   | (30°-60°)   | 8875.3  | 14.8      | B5                      |       |        |
| BH   | (60°-80°)   | 5164.3  | 8.6       | B5                      |       | G5     |
| BVH  | (80°-90°)   | 210.9   | 0.4       |                         |       | G2/225 |
| UL   | (90°-100°)  | 34.2    | 0.1       |                         | U2/50 |        |
| UH   | (100°-180°) | 0.4     | 0.0       |                         | U1/10 |        |

**BUG Rating: B5-U2-G5**

Type IV Short





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CATALOG NUMBER: CST-10-9-D-U-T5R-7030-HSS-HM-EX180

**CANDELA DISTRIBUTION (FULL):**

|        | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°     | 6076.0  | 6076.0  | 6076.0  | 6076.0  | 6076.0  | 6076.0  | 6076.0  | 6076.0  | 6076.0  | 6076.0  | 6076.0  |
| 2.5°   | 6185.8  | 6174.2  | 6162.7  | 6188.7  | 6087.6  | 6130.9  | 6096.2  | 6128.0  | 6104.9  | 6130.9  | 6122.2  |
| 5°     | 6266.7  | 6255.1  | 6220.5  | 6249.4  | 6182.9  | 6200.2  | 6156.9  | 6168.5  | 6090.5  | 6136.7  | 6133.8  |
| 7.5°   | 6399.6  | 6367.8  | 6344.7  | 6344.7  | 6286.9  | 6284.0  | 6214.7  | 6217.6  | 6156.9  | 6151.1  | 6162.7  |
| 10°    | 6578.7  | 6555.6  | 6492.1  | 6497.8  | 6416.9  | 6405.4  | 6318.7  | 6315.8  | 6266.7  | 6237.8  | 6263.8  |
| 12.5°  | 6711.6  | 6734.7  | 6677.0  | 6677.0  | 6596.1  | 6538.3  | 6477.6  | 6437.2  | 6399.6  | 6356.3  | 6336.0  |
| 15°    | 6954.3  | 6977.4  | 6899.4  | 6896.5  | 6864.8  | 6795.4  | 6729.0  | 6642.3  | 6575.8  | 6555.6  | 6523.8  |
| 17.5°  | 7269.2  | 7254.8  | 7188.4  | 7191.2  | 7197.0  | 7084.3  | 7017.9  | 6905.2  | 6809.9  | 6740.5  | 6723.2  |
| 20°    | 7590.0  | 7590.0  | 7517.7  | 7540.8  | 7511.9  | 7407.9  | 7364.6  | 7208.6  | 7075.7  | 7000.6  | 6939.9  |
| 22.5°  | 7948.2  | 7933.8  | 7884.7  | 7933.8  | 7876.0  | 7772.0  | 7699.7  | 7543.7  | 7373.3  | 6948.5  | 6775.2  |
| 25°    | 8289.1  | 8280.5  | 8300.7  | 8315.1  | 8242.9  | 8112.9  | 8063.8  | 7899.1  | 7425.3  | 6867.6  | 6518.1  |
| 27.5°  | 8719.6  | 8690.7  | 8737.0  | 8765.9  | 8693.6  | 8580.9  | 8476.9  | 8292.0  | 7289.5  | 6850.3  | 6812.8  |
| 30°    | 9271.5  | 9207.9  | 9274.4  | 9288.8  | 9213.7  | 9144.3  | 8988.3  | 8063.8  | 7335.7  | 7208.6  | 7197.0  |
| 32.5°  | 9860.9  | 9785.7  | 9872.4  | 9884.0  | 9785.7  | 9728.0  | 9335.0  | 7945.3  | 7789.3  | 7642.0  | 7656.4  |
| 35°    | 10560.1 | 10560.1 | 10603.4 | 10609.2 | 10536.9 | 10438.7 | 8942.1  | 8523.2  | 8384.5  | 8248.7  | 8245.8  |
| 37.5°  | 11412.4 | 11386.4 | 11501.9 | 11571.3 | 11493.3 | 11213.0 | 9514.2  | 9317.7  | 9103.9  | 8930.5  | 8572.3  |
| 40°    | 12440.9 | 12487.2 | 12518.9 | 12588.3 | 12513.2 | 11883.3 | 10349.1 | 10126.7 | 9959.1  | 9378.4  | 8474.0  |
| 42.5°  | 13550.4 | 13561.9 | 13631.3 | 13718.0 | 13718.0 | 13053.4 | 11325.7 | 11135.0 | 10918.3 | 9170.3  | 8763.0  |
| 45°    | 14876.5 | 14850.5 | 14983.4 | 15122.1 | 15084.6 | 14396.9 | 12461.2 | 12319.6 | 11305.5 | 9774.2  | 9777.1  |
| 47.5°  | 16381.8 | 16350.0 | 16540.7 | 16722.7 | 16534.9 | 15887.8 | 13709.3 | 13599.5 | 10912.5 | 10797.0 | 10773.9 |
| 50°    | 18121.1 | 18043.1 | 18262.7 | 18505.4 | 18352.3 | 17551.9 | 15226.1 | 13117.0 | 12007.6 | 11915.1 | 11900.6 |
| 52.5°  | 19978.9 | 19918.2 | 20051.1 | 20464.3 | 20262.0 | 19294.1 | 16662.1 | 13533.1 | 13275.9 | 13171.9 | 13145.9 |
| 55°    | 22076.4 | 21958.0 | 22244.0 | 22558.9 | 22324.9 | 21221.2 | 18077.8 | 14914.1 | 14648.3 | 14469.2 | 14209.1 |
| 57.5°  | 24280.9 | 24110.4 | 24257.8 | 24653.6 | 24428.3 | 23194.6 | 19903.8 | 16335.6 | 16020.7 | 13258.6 | 12204.0 |
| 60°    | 26476.7 | 26398.7 | 26456.5 | 26806.1 | 26528.7 | 25113.0 | 21614.2 | 17760.0 | 13559.1 | 13114.1 | 13166.1 |
| 62.5°  | 28684.1 | 28513.6 | 28565.6 | 28923.9 | 28568.5 | 26939.0 | 23235.0 | 19054.3 | 14269.8 | 14113.8 | 14168.7 |
| 65°    | 31050.3 | 30848.1 | 30894.3 | 30998.3 | 30559.2 | 28577.2 | 24668.1 | 20276.5 | 15338.8 | 15174.1 | 15234.8 |
| 67.5°  | 33902.0 | 33717.1 | 33465.7 | 33156.6 | 32549.8 | 30316.5 | 26092.4 | 21562.2 | 16540.7 | 16448.3 | 16468.5 |
| 68°    | 34205.3 | 34026.2 | 33722.8 | 33355.9 | 32674.1 | 30388.7 | 26153.1 | 21599.7 | 16558.1 | 16442.5 | 16448.3 |
| 70°    | 33260.6 | 33367.5 | 33023.7 | 32408.3 | 31839.1 | 29331.2 | 25162.1 | 20767.6 | 15821.3 | 15650.8 | 15607.5 |
| 72.5°  | 29455.5 | 29689.5 | 29215.7 | 29111.7 | 28412.5 | 26130.0 | 22018.7 | 18020.0 | 13761.3 | 13816.2 | 13660.2 |
| 75°    | 23781.1 | 24124.9 | 23549.9 | 23581.7 | 23183.0 | 21796.2 | 18453.4 | 15003.7 | 11299.7 | 11551.1 | 11597.3 |
| 77.5°  | 16537.8 | 17031.9 | 16780.5 | 17031.9 | 16835.4 | 16335.6 | 14281.4 | 11553.9 | 8621.4  | 8910.3  | 9023.0  |
| 80°    | 8624.3  | 9210.8  | 9543.1  | 9647.1  | 9710.6  | 9690.4  | 8696.5  | 6934.1  | 4983.9  | 5090.8  | 5085.0  |
| 82.5°  | 2727.4  | 2585.8  | 2669.6  | 2646.5  | 2574.3  | 2603.2  | 2346.0  | 1834.6  | 1271.3  | 1401.3  | 1340.6  |
| 85°    | 823.4   | 829.2   | 806.1   | 800.3   | 739.6   | 650.1   | 531.6   | 306.3   | 150.2   | 176.2   | 164.7   |
| 87.5°  | 606.7   | 612.5   | 566.3   | 537.4   | 502.7   | 436.3   | 338.0   | 190.7   | 72.2    | 69.3    | 54.9    |
| 90°    | 335.1   | 323.6   | 300.5   | 277.4   | 262.9   | 225.4   | 170.5   | 72.2    | 26.0    | 20.2    | 17.3    |
| 92.5°  | 182.0   | 173.4   | 161.8   | 153.1   | 132.9   | 106.9   | 69.3    | 23.1    | 11.6    | 2.9     | 0.0     |
| 95°    | 83.8    | 78.0    | 75.1    | 66.5    | 57.8    | 40.4    | 23.1    | 14.4    | 8.7     | 2.9     | 0.0     |
| 97.5°  | 37.6    | 34.7    | 31.8    | 26.0    | 20.2    | 11.6    | 11.6    | 8.7     | 5.8     | 2.9     | 0.0     |
| 100°   | 8.7     | 8.7     | 5.8     | 5.8     | 5.8     | 5.8     | 5.8     | 5.8     | 5.8     | 2.9     | 0.0     |
| 102.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 2.9     | 2.9     | 0.0     | 0.0     |
| 105°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 2.9     | 0.0     | 0.0     |
| 107.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 2.9     | 0.0     | 0.0     |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 110°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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 |





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**CANDELA DISTRIBUTION (continued):**

|        | 95°     | 105°    | 115°    | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 6076.0  | 6076.0  | 6076.0  | 6076.0 | 6076.0 | 6076.0 | 6076.0 | 6076.0 | 6076.0 | 6076.0 |
| 2.5°   | 6113.6  | 6096.2  | 6087.6  | 6032.7 | 6050.0 | 6000.9 | 6096.2 | 6073.1 | 6058.7 | 6099.1 |
| 5°     | 6119.3  | 6058.7  | 6096.2  | 6064.4 | 6076.0 | 6006.7 | 6081.8 | 6050.0 | 6047.1 | 6064.4 |
| 7.5°   | 6133.8  | 6093.3  | 6130.9  | 6067.3 | 6096.2 | 6067.3 | 6122.2 | 6090.5 | 6116.5 | 6133.8 |
| 10°    | 6211.8  | 6188.7  | 6171.3  | 6156.9 | 6177.1 | 6119.3 | 6188.7 | 6191.6 | 6200.2 | 6252.2 |
| 12.5°  | 6321.6  | 6298.5  | 6269.6  | 6232.0 | 6252.2 | 6229.1 | 6281.1 | 6295.6 | 6327.4 | 6353.4 |
| 15°    | 6474.7  | 6431.4  | 6419.8  | 6385.2 | 6405.4 | 6393.8 | 6405.4 | 6396.7 | 6457.4 | 6448.7 |
| 17.5°  | 6685.6  | 6636.5  | 6471.8  | 6304.3 | 6197.4 | 6229.1 | 6362.0 | 6535.4 | 6578.7 | 6584.5 |
| 20°    | 6763.6  | 6416.9  | 6399.6  | 6208.9 | 6122.2 | 6116.5 | 5842.0 | 5431.7 | 5555.9 | 5847.8 |
| 22.5°  | 6671.2  | 6197.4  | 6148.2  | 6110.7 | 5740.9 | 5134.1 | 5076.3 | 5015.7 | 5001.2 | 5044.6 |
| 25°    | 6463.2  | 6408.3  | 6364.9  | 5873.8 | 5290.1 | 5293.0 | 5209.2 | 4810.5 | 4189.4 | 4137.3 |
| 27.5°  | 6781.0  | 6705.9  | 6286.9  | 5529.9 | 5518.4 | 5512.6 | 5388.4 | 4365.6 | 4232.7 | 4264.5 |
| 30°    | 7142.1  | 7017.9  | 5922.9  | 5824.6 | 5821.8 | 5769.7 | 4830.8 | 4403.2 | 4403.2 | 4408.9 |
| 32.5°  | 7558.2  | 6786.8  | 6130.9  | 6177.1 | 6174.2 | 5928.7 | 4666.1 | 4637.2 | 4625.6 | 4654.5 |
| 35°    | 7876.0  | 6601.8  | 6578.7  | 6662.5 | 6604.7 | 5030.1 | 4957.9 | 4931.9 | 4920.3 | 4905.9 |
| 37.5°  | 7777.7  | 7133.5  | 7133.5  | 7185.5 | 6720.3 | 5356.6 | 5321.9 | 5321.9 | 5298.8 | 5287.3 |
| 40°    | 7928.0  | 7795.1  | 7728.6  | 7748.9 | 4882.8 | 5752.4 | 5778.4 | 5772.6 | 5769.7 | 5790.0 |
| 42.5°  | 8719.6  | 8601.2  | 8540.5  | 7824.0 | 5466.4 | 5717.7 | 6353.4 | 6350.5 | 6359.1 | 6350.5 |
| 45°    | 9728.0  | 9618.2  | 9459.3  | 7321.3 | 6206.0 | 5012.8 | 7003.4 | 7035.2 | 7038.1 | 7035.2 |
| 47.5°  | 10785.4 | 10716.1 | 9089.4  | 8104.2 | 7009.2 | 5379.7 | 6694.3 | 7818.2 | 7803.8 | 7821.1 |
| 50°    | 11903.5 | 11591.5 | 9043.2  | 9031.7 | 7864.4 | 5986.4 | 5989.3 | 8502.9 | 8650.3 | 8696.5 |
| 52.5°  | 13148.8 | 10508.1 | 10022.7 | 9144.3 | 8731.2 | 6610.5 | 6546.9 | 7535.1 | 9545.9 | 9592.2 |
| 55°    | 12212.7 | 11100.3 | 11091.7 | 8138.9 | 9083.7 | 7211.5 | 7220.1 | 7150.8 | 8754.3 | 9950.4 |
| 57.5°  | 12152.0 | 12178.0 | 12157.8 | 9080.8 | 6627.8 | 6760.7 | 7867.3 | 7806.6 | 5668.6 | 4593.8 |
| 60°    | 13200.8 | 13238.4 | 11811.1 | 9806.0 | 7165.2 | 4157.6 | 4845.2 | 4117.1 | 4172.0 | 4215.4 |
| 62.5°  | 14203.3 | 14214.9 | 9606.6  | 6428.5 | 3550.8 | 167.6  | 80.9   | 66.5   | 63.6   | 63.6   |
| 65°    | 15312.8 | 15312.8 | 10297.1 | 7012.1 | 3429.5 | 63.6   | 11.6   | 8.7    | 31.8   | 31.8   |
| 67.5°  | 16384.7 | 16147.8 | 10802.8 | 7445.5 | 3490.2 | 8.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 68°    | 16324.0 | 16064.0 | 10756.5 | 7433.9 | 3481.5 | 5.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°    | 15416.8 | 15165.5 | 10204.7 | 7095.9 | 3351.5 | 5.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5°  | 13608.2 | 13377.0 | 9037.4  | 6255.1 | 3022.1 | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°    | 11519.3 | 11487.5 | 7806.6  | 5278.6 | 2591.6 | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5°  | 9268.6  | 9124.1  | 6102.0  | 4137.3 | 2088.9 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°    | 5163.0  | 5376.8  | 3571.1  | 2432.7 | 1314.6 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5°  | 1395.5  | 1305.9  | 780.1   | 528.7  | 251.4  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°    | 179.1   | 196.5   | 89.6    | 72.2   | 17.3   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5°  | 92.5    | 109.8   | 28.9    | 23.1   | 5.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°    | 17.3    | 20.2    | 8.7     | 2.9    | 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    |



REPORT NUMBER: P256743

CATALOG NUMBER: CST-10-9-D-U-T5R-7030-HSS-HM-EX180

**CANDELA DISTRIBUTION (continued):**

|        | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|------|------|------|------|------|------|------|------|------|
| 110°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 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)