

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: P579583

Luminaire Tested: **CST-CA10-630-760-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579583  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/18/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA10-630-760-U-T5N-HSS-HM-EX120  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (10) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 72244 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U2 - G5

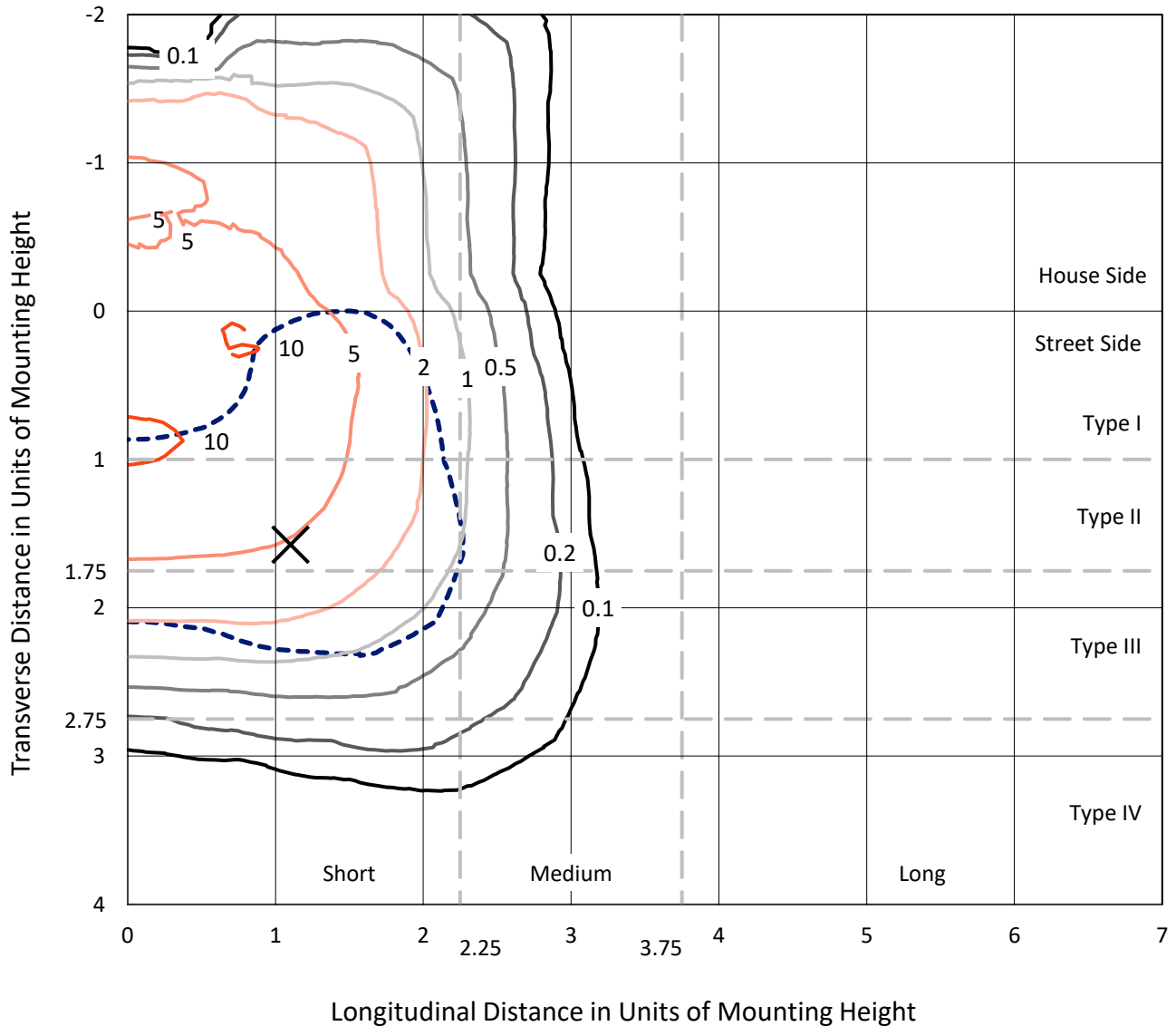
Input Watts (W): 631.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

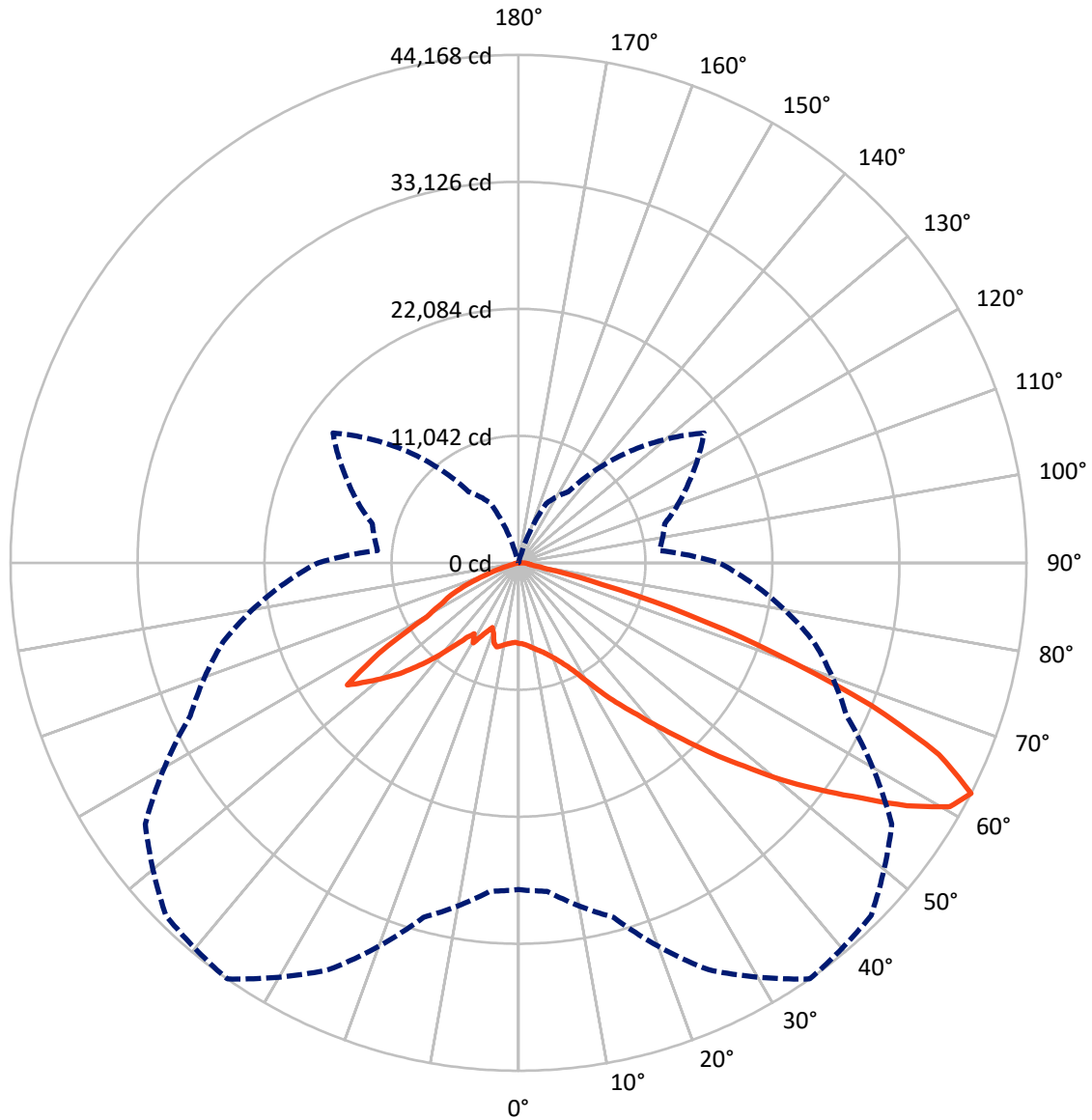
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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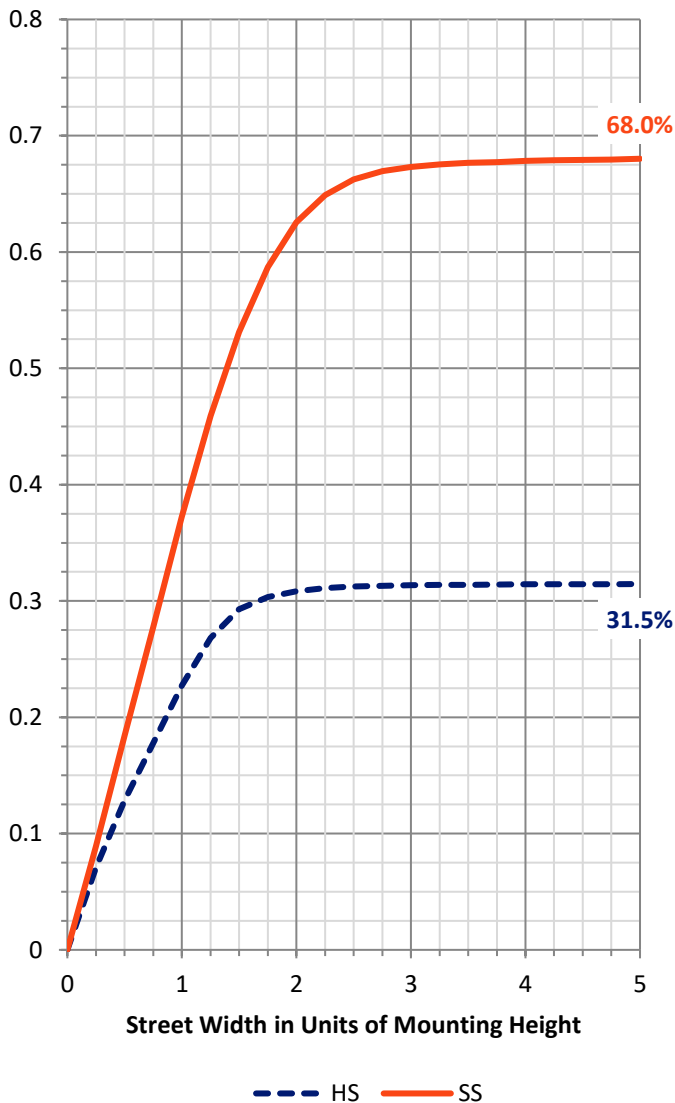
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22854.9	0.0	22854.9
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	49347.8	41.2	49389.0
	% Fixture	68.3	0.1	68.4
<b>Total</b>	Lumens	72202.7	41.3	72244.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	691.5	1.0
10°-20°	2223.3	3.1
20°-30°	4128.4	5.7
30°-40°	8139.4	11.3
40°-50°	14611.2	20.2
50°-60°	21238.9	29.4
60°-70°	17455.0	24.2
70°-80°	3317.9	4.6
80°-90°	397.2	0.5
90°-100°	37.6	0.1
100°-110°	3.6	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°	72202.7	99.9
0°-180°	72244.0	100.0

**Coefficient of Utilization**

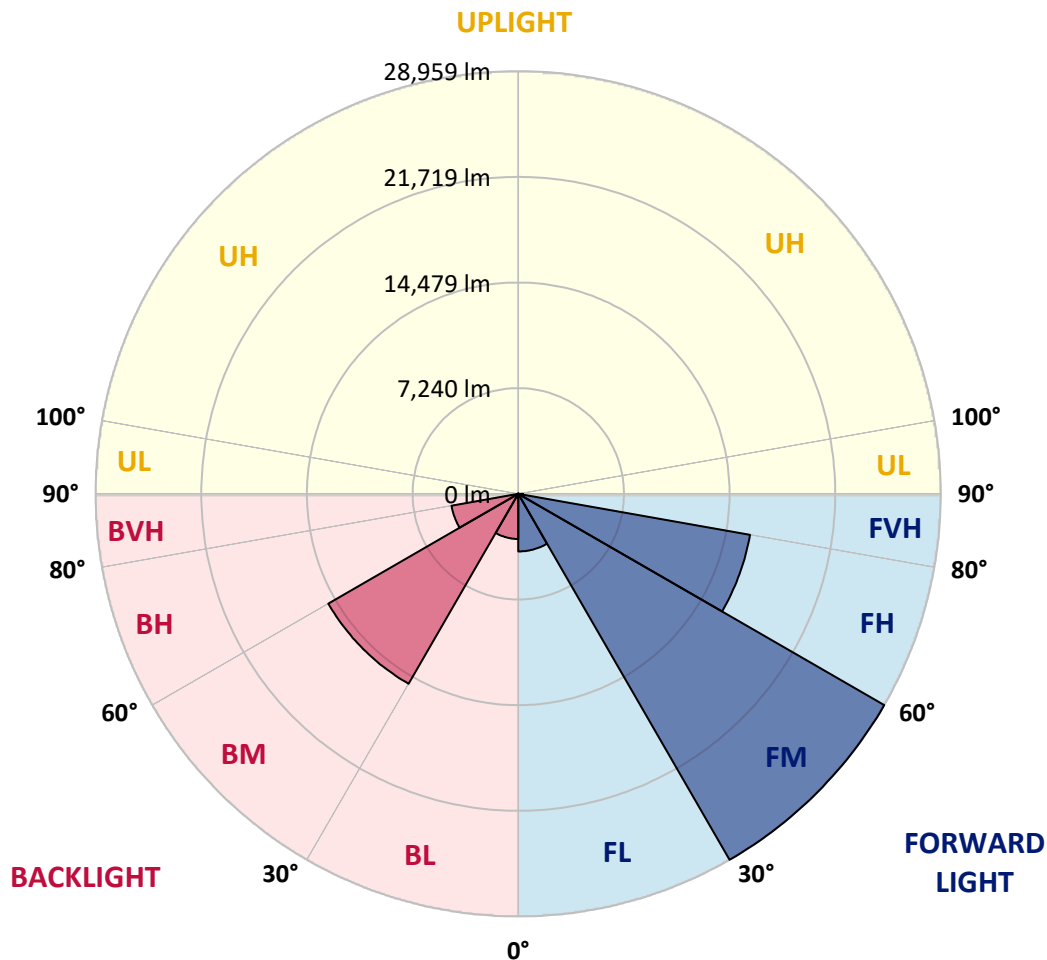


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3948.5	5.5			
FM (30°-60°)	28958.7	40.1			
FH (60°-80°)	16126.5	22.3			G5
FVH (80°-90°)	314.0	0.4			G3/500
BL (0°-30°)	3094.6	4.3	B4/5000		
BM (30°-60°)	15030.8	20.8	B5		
BH (60°-80°)	4646.4	6.4	B4/5000		G4/5000
BVH (80°-90°)	83.1	0.1			G1/100
UL (90°-100°)	37.6	0.1		U2/50	
UH (100°-180°)	3.7	0.0		U1/10	

**BUG Rating: B5-U2-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7012.4	7012.4	7012.4	7012.4	7012.4	7012.4	7012.4	7012.4	7012.4	7012.4	7012.4
2.5°	7191.5	7132.8	7138.7	7182.7	7050.6	7094.6	7033.0	7085.8	7062.3	7085.8	7100.5
5°	7335.4	7262.0	7259.1	7303.1	7197.4	7223.8	7153.3	7188.6	7156.3	7185.7	7185.7
7.5°	7511.6	7449.9	7435.3	7470.5	7376.5	7388.3	7317.8	7332.5	7294.3	7332.5	7303.1
10°	7731.8	7676.0	7652.6	7670.2	7585.0	7590.9	7514.5	7520.4	7464.6	7496.9	7473.4
12.5°	7963.8	7887.5	7875.7	7905.1	7817.0	7805.3	7740.7	7746.5	7684.9	7714.2	7696.6
15°	8204.6	8125.3	8128.3	8157.6	8069.5	8075.4	8007.9	8019.6	7958.0	7987.3	7963.8
17.5°	8524.7	8445.4	8439.5	8492.4	8419.0	8442.5	8372.0	8386.7	8342.6	8348.5	8322.1
20°	8982.8	8880.0	8859.5	8935.8	8838.9	8868.3	8830.1	8880.0	8862.4	8847.7	8827.2
22.5°	9529.0	9449.7	9408.6	9467.3	9352.8	9408.6	9429.1	9531.9	9558.4	9540.7	9217.7
25°	10260.2	10219.1	10178.0	10151.5	10013.5	10101.6	10207.3	10377.6	10489.2	10533.3	10084.0
27.5°	11246.9	11267.4	11088.3	11058.9	10903.3	11041.3	11232.2	11508.2	11734.3	11816.5	11211.6
30°	12515.4	12541.9	12298.1	12227.6	12133.7	12251.1	12606.5	12908.9	13243.7	13381.7	12574.2
32.5°	14201.0	14177.5	13819.2	13684.2	13599.0	13646.0	14018.9	14433.0	14808.8	15120.1	14127.6
35°	16259.5	16186.1	15804.3	15431.4	15093.7	15237.6	15510.7	16012.8	16582.5	17040.6	15660.4
37.5°	18649.8	18579.3	17997.9	17390.0	16723.4	16785.1	17028.8	17848.1	18582.3	18702.7	15399.1
40°	21119.4	21090.0	20540.9	19768.6	18732.0	18441.3	18764.3	19762.7	20538.0	18438.4	16006.9
42.5°	23586.1	23445.1	23136.8	22364.5	20984.3	20344.2	20778.8	21777.2	22611.2	19331.1	17416.5
45°	26073.3	25929.4	25668.1	25101.3	23665.4	22734.5	22860.8	23967.8	24722.5	21004.9	18884.7
47.5°	28281.6	28175.9	27987.9	27670.8	26390.5	25547.7	25303.9	26079.2	26593.1	22364.5	20012.3
50°	30184.4	30093.4	30166.8	30061.1	29685.2	28801.3	27996.7	27946.8	28193.5	23574.3	21048.9
52.5°	31858.2	31734.9	32049.1	32422.1	32768.6	32571.8	30624.9	29717.5	29494.4	24481.7	21744.9
55°	33241.3	33197.3	33737.6	34744.8	36063.3	36580.2	33435.2	31353.2	30657.2	25251.1	21809.5
57.5°	34069.4	34175.2	35317.5	37267.3	39845.6	40089.3	36724.0	33091.6	31682.1	25718.0	22117.8
60°	32654.0	33012.3	35067.9	39158.4	43064.0	43169.7	39087.9	33438.1	30340.1	24038.3	20470.4
62.5°	28413.7	28672.1	31905.2	39038.0	44168.1	43363.5	39616.5	31482.4	26590.1	20391.2	17410.6
65°	20076.9	20376.5	24273.2	35202.9	40183.3	40212.6	36289.4	27224.4	21254.5	15786.7	13443.4
67.5°	12110.2	12594.7	16285.9	25556.5	33085.7	33687.7	30275.5	20611.4	15211.1	10307.2	8700.9
70°	3973.1	4416.5	7435.3	15126.0	23850.4	26428.6	22737.4	13393.4	7943.3	4357.8	3509.1
72.5°	1574.0	1776.6	2619.4	6689.4	15369.7	17645.5	14010.1	6472.1	2666.4	1157.0	1007.2
75°	1051.3	1071.8	1209.8	2278.7	7520.4	9649.4	6754.0	1882.3	989.6	722.4	634.3
77.5°	916.2	919.1	980.8	1201.0	2449.1	3700.0	1944.0	1010.2	819.3	593.2	525.6
80°	839.8	851.6	889.8	1024.8	1121.7	1256.8	960.2	842.8	710.6	546.2	496.3
82.5°	804.6	813.4	836.9	927.9	907.4	942.6	775.2	669.5	599.0	502.1	475.7
85°	734.1	748.8	763.5	819.3	745.9	646.0	599.0	449.3	428.7	378.8	349.4
87.5°	555.0	552.1	537.4	546.2	499.2	408.2	337.7	252.5	205.6	170.3	141.0
90°	232.0	234.9	226.1	214.4	187.9	155.6	117.5	70.5	35.2	11.7	5.9
92.5°	176.2	179.1	173.3	155.6	135.1	108.7	79.3	41.1	23.5	8.8	2.9
95°	108.7	111.6	105.7	94.0	82.2	61.7	41.1	26.4	14.7	5.9	0.0
97.5°	64.6	67.5	61.7	55.8	44.0	29.4	23.5	17.6	11.7	5.9	0.0
100°	38.2	38.2	35.2	29.4	20.6	17.6	14.7	11.7	8.8	2.9	0.0
102.5°	17.6	17.6	17.6	11.7	8.8	8.8	8.8	8.8	8.8	2.9	0.0
105°	5.9	5.9	2.9	2.9	2.9	5.9	5.9	5.9	5.9	2.9	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.9	5.9	2.9	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	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





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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7012.4	7012.4	7012.4	7012.4	7012.4	7012.4	7012.4	7012.4	7012.4	7012.4
2.5°	7085.8	7030.0	7038.8	6988.9	6977.2	6924.3	7018.3	7027.1	7000.7	7027.1
5°	7173.9	7106.4	7124.0	7068.2	7053.5	6980.1	7056.4	7050.6	7030.0	7056.4
7.5°	7303.1	7226.8	7235.6	7171.0	7156.3	7074.1	7144.5	7124.0	7100.5	7132.8
10°	7467.6	7394.1	7397.1	7309.0	7300.2	7206.2	7297.2	7259.1	7223.8	7270.8
12.5°	7696.6	7593.8	7585.0	7488.1	7485.2	7388.3	7482.2	7449.9	7403.0	7476.4
15°	7960.9	7822.9	7787.6	7664.3	7661.4	7558.6	7652.6	7602.6	7579.1	7667.2
17.5°	8304.5	8131.2	7864.0	7444.1	7253.2	7285.5	7617.3	7737.7	7423.5	7470.5
20°	8513.0	7673.1	7282.6	7109.3	7018.3	6495.6	5787.9	5846.6	6542.6	6874.4
22.5°	8160.6	7911.0	7767.1	7523.3	6254.8	6075.6	6116.8	6105.0	5206.4	4939.2
25°	8894.7	8659.8	8398.4	6894.9	6633.6	6557.2	6577.8	5735.0	5244.6	5265.2
27.5°	9951.8	9649.4	7993.2	7341.3	7288.4	7176.8	6771.6	5758.5	5820.2	5861.3
30°	11288.0	10213.2	8513.0	8228.1	8122.4	8002.0	6284.1	6433.9	6548.4	6674.7
32.5°	12580.0	9934.2	9508.4	9211.8	9047.4	7264.9	7088.7	7364.8	7479.3	7588.0
35°	12462.6	11129.4	10577.3	10201.5	9893.1	7840.5	7996.1	8416.1	8718.5	8715.6
37.5°	12785.6	12430.3	11793.0	11317.3	8586.4	8783.1	9109.1	9587.7	9954.8	9951.8
40°	14133.4	13748.8	13149.7	12127.8	9514.3	9972.4	10418.8	10868.0	11132.3	11152.9
42.5°	15472.5	15175.9	14635.6	10712.4	10650.7	11285.0	11751.9	12036.8	12198.3	12254.1
45°	16805.7	16526.7	14380.1	11848.8	12036.8	12665.2	12950.0	13005.8	13179.1	13173.2
47.5°	17865.8	17627.9	13229.0	13199.6	13666.5	14101.1	14010.1	13939.6	13983.7	14007.2
50°	18843.6	15346.2	14262.7	14691.4	15402.0	15454.9	15076.1	11942.8	14785.3	14735.4
52.5°	17504.6	14976.2	15225.8	16230.1	17440.0	16826.2	16086.2	10468.7	13866.2	15184.7
55°	15316.9	15569.4	16133.2	17818.8	19013.9	18285.7	17049.4	10779.9	9203.0	7491.0
57.5°	15622.3	16021.6	17093.5	19422.1	20464.6	14482.9	15913.0	7599.7	5144.8	5141.8
60°	14547.5	15152.4	17072.9	20141.6	16564.9	9279.4	6375.2	173.3	998.4	989.6
62.5°	12298.1	13158.5	16288.8	19686.4	13722.3	7541.0	5679.2	14.7	5.9	5.9
65°	9511.4	10524.5	13581.4	17046.5	12157.2	6495.6	4216.8	0.0	0.0	0.0
67.5°	6237.2	7176.8	10198.5	14159.9	10092.8	4909.9	2833.7	0.0	0.0	0.0
70°	2598.8	3758.7	6337.0	10233.8	7423.5	3215.5	1344.9	0.0	0.0	0.0
72.5°	751.7	1145.2	2854.3	6110.9	4607.4	1682.6	499.2	0.0	0.0	0.0
75°	496.3	522.7	863.3	2457.9	2240.6	616.7	202.6	0.0	0.0	0.0
77.5°	417.0	428.7	549.1	687.1	719.4	243.7	164.4	0.0	0.0	0.0
80°	384.7	387.6	493.3	511.0	384.7	202.6	161.5	0.0	0.0	0.0
82.5°	358.3	349.4	419.9	405.2	320.1	176.2	149.8	0.0	0.0	0.0
85°	246.7	252.5	284.8	361.2	193.8	88.1	105.7	0.0	0.0	0.0
87.5°	76.3	88.1	111.6	114.5	35.2	11.7	0.0	0.0	0.0	0.0
90°	2.9	0.0	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



REPORT NUMBER: P579583  
 CATALOG NUMBER: CST-CA10-630-760-U-T5N-HSS-HM-EX120

**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)