

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: P579607

Luminaire Tested: **CST-CA8-330-760-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579607  
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-CA8-330-760-U-T5N-HSS-HM-EX120  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (8) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38325 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U2 - G4

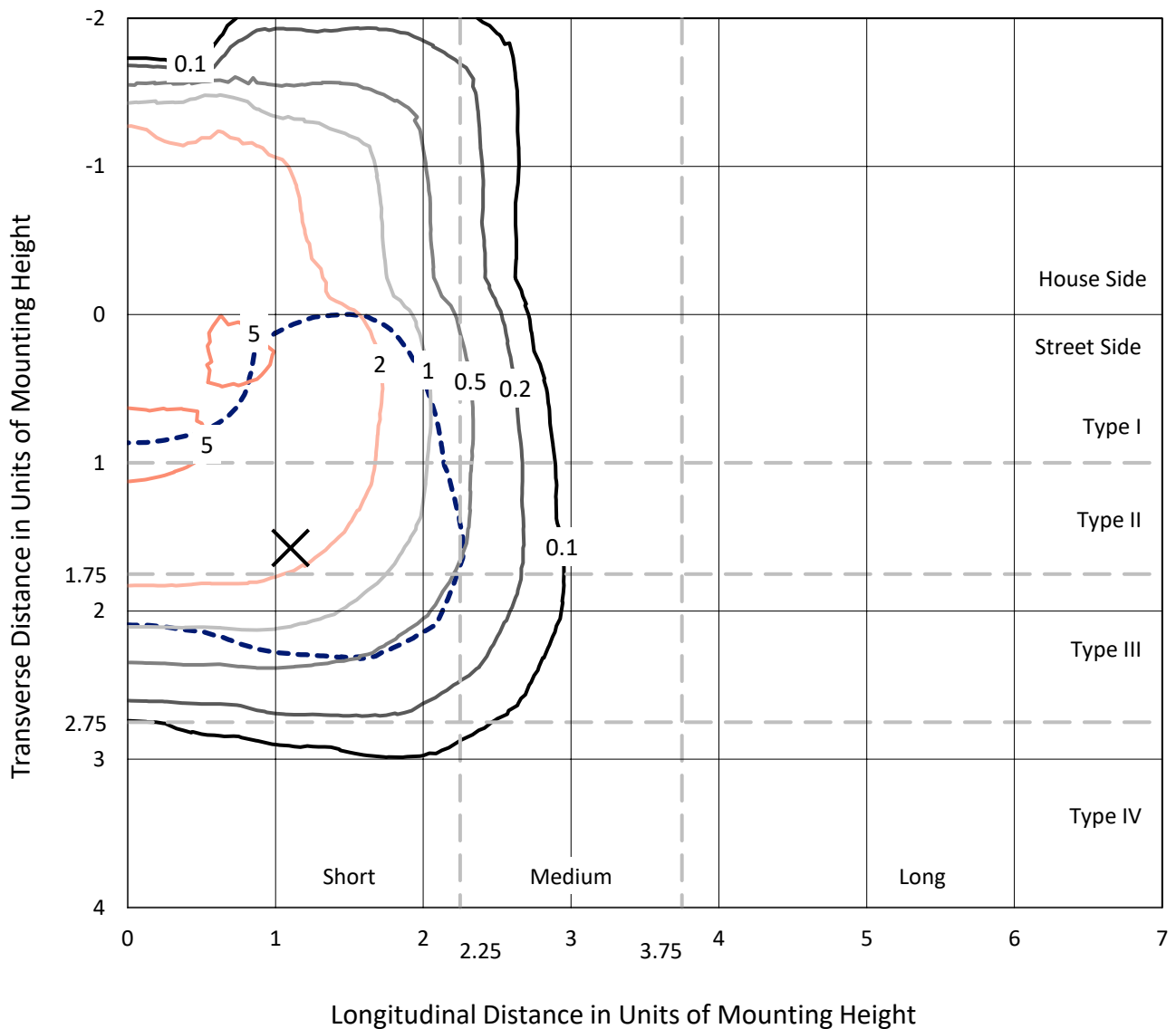
Input Watts (W): 331.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

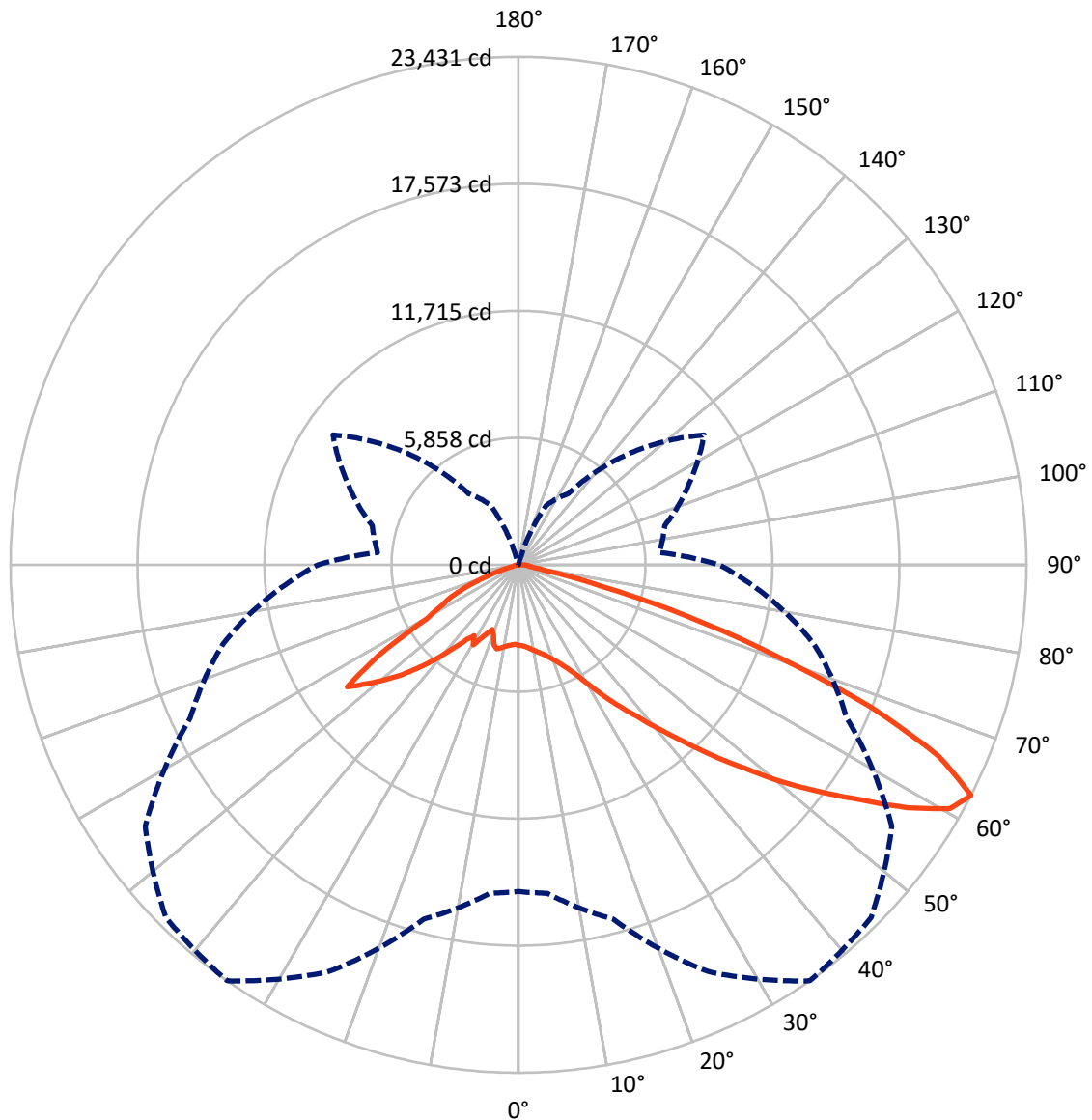
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 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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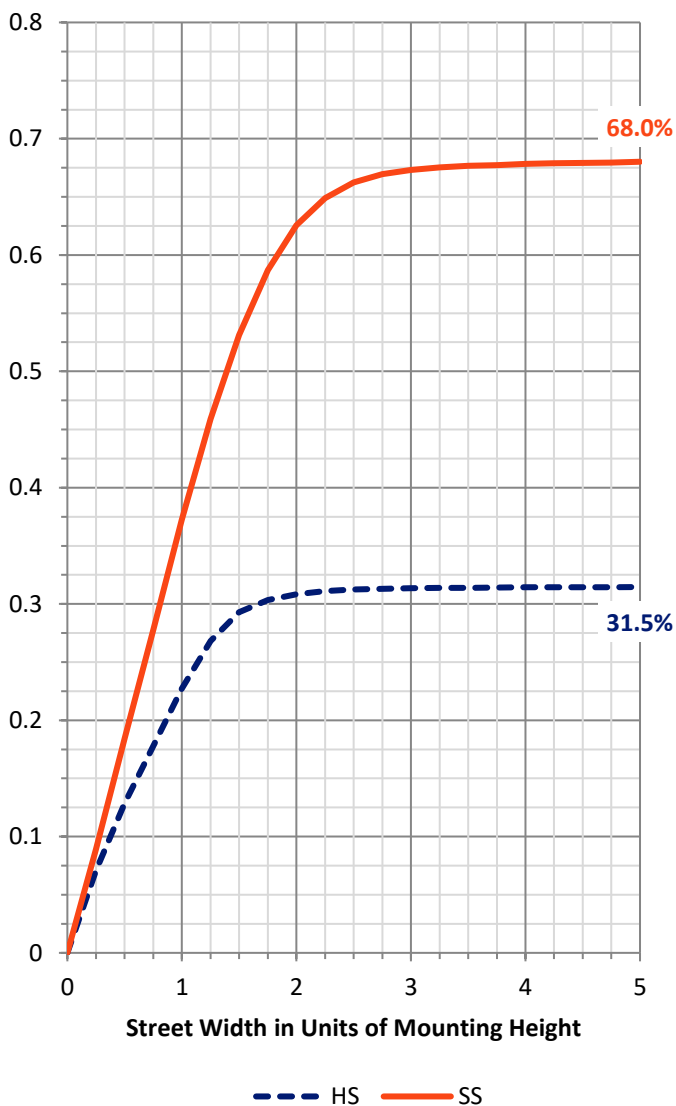
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12124.4	0.0	12124.4
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	26178.7	21.9	26200.6
	% Fixture	68.3	0.1	68.4
<b>Total</b>	Lumens	38303.1	21.9	38325.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.8	1.0
10°-20°	1179.4	3.1
20°-30°	2190.1	5.7
30°-40°	4317.9	11.3
40°-50°	7751.1	20.2
50°-60°	11267.1	29.4
60°-70°	9259.8	24.2
70°-80°	1760.1	4.6
80°-90°	210.7	0.5
90°-100°	19.9	0.1
100°-110°	1.9	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°	38303.1	99.9
0°-180°	38325.0	100.0

**Coefficient of Utilization**



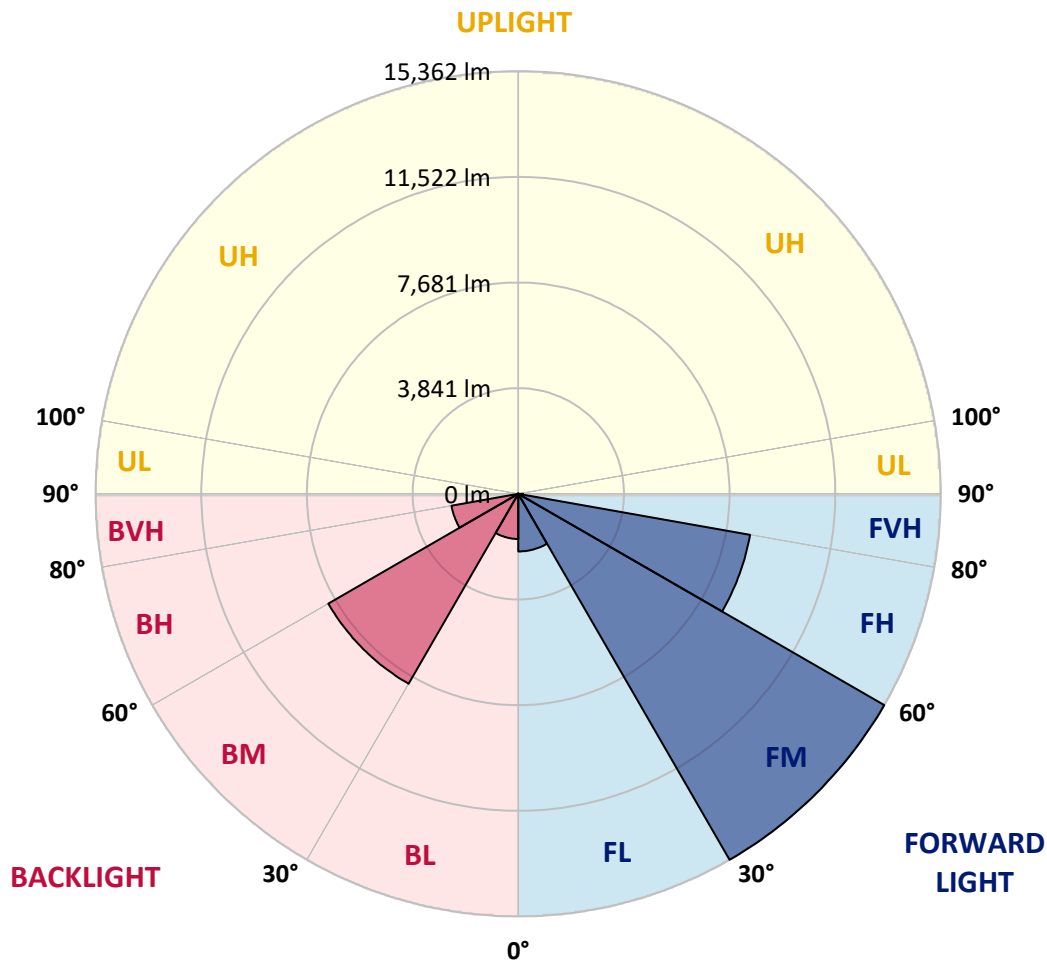
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2094.7	5.5			
FM	(30°-60°)	15362.4	40.1			
FH	(60°-80°)	8555.0	22.3			G4/12000
FVH	(80°-90°)	166.6	0.4			G2/225
BL	(0°-30°)	1641.7	4.3	B3/2500		
BM	(30°-60°)	7973.7	20.8	B4/8500		
BH	(60°-80°)	2464.9	6.4	B3/2500		G3/2500
BVH	(80°-90°)	44.1	0.1			G1/100
UL	(90°-100°)	19.9	0.1		U2/50	
UH	(100°-180°)	2.0	0.0		U1/10	

**BUG Rating: B4-U2-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3720.0	3720.0	3720.0	3720.0	3720.0	3720.0	3720.0	3720.0	3720.0	3720.0	3720.0
2.5°	3815.1	3783.9	3787.0	3810.4	3740.3	3763.7	3730.9	3759.0	3746.5	3759.0	3766.8
5°	3891.4	3852.4	3850.9	3874.3	3818.2	3832.2	3794.8	3813.5	3796.4	3811.9	3811.9
7.5°	3984.9	3952.1	3944.4	3963.1	3913.2	3919.4	3882.0	3889.8	3869.6	3889.8	3874.3
10°	4101.7	4072.1	4059.6	4069.0	4023.8	4026.9	3986.4	3989.5	3959.9	3977.1	3964.6
12.5°	4224.8	4184.3	4178.0	4193.6	4146.9	4140.6	4106.4	4109.5	4076.8	4092.3	4083.0
15°	4352.5	4310.4	4312.0	4327.6	4280.8	4284.0	4248.1	4254.4	4221.6	4237.2	4224.8
17.5°	4522.3	4480.2	4477.1	4505.2	4466.2	4478.7	4441.3	4449.1	4425.7	4428.8	4414.8
20°	4765.3	4710.8	4699.9	4740.4	4689.0	4704.6	4684.3	4710.8	4701.4	4693.7	4682.8
22.5°	5055.1	5013.0	4991.2	5022.4	4961.6	4991.2	5002.1	5056.6	5070.6	5061.3	4889.9
25°	5443.0	5421.2	5399.3	5385.3	5312.1	5358.8	5414.9	5505.3	5564.5	5587.8	5349.5
27.5°	5966.4	5977.3	5882.3	5866.7	5784.1	5857.3	5958.6	6105.0	6225.0	6268.6	5947.7
30°	6639.4	6653.4	6524.1	6486.7	6436.8	6499.2	6687.6	6848.1	7025.7	7098.9	6670.5
32.5°	7533.5	7521.1	7331.0	7259.4	7214.2	7239.1	7437.0	7656.6	7856.0	8021.1	7494.6
35°	8625.6	8586.6	8384.1	8186.3	8007.1	8083.4	8228.3	8494.7	8796.9	9039.9	8307.8
37.5°	9893.6	9856.2	9547.8	9225.3	8871.7	8904.4	9033.7	9468.3	9857.8	9921.6	8169.1
40°	11203.7	11188.1	10896.8	10487.1	9937.2	9783.0	9954.4	10484.0	10895.3	9781.4	8491.6
42.5°	12512.3	12437.5	12273.9	11864.2	11132.1	10792.5	11023.0	11552.7	11995.1	10255.0	9239.3
45°	13831.7	13755.4	13616.8	13316.1	12554.3	12060.5	12127.5	12714.8	13115.1	11143.0	10018.2
47.5°	15003.2	14947.1	14847.4	14679.2	14000.0	13552.9	13423.6	13834.8	14107.5	11864.2	10616.4
50°	16012.7	15964.4	16003.3	15947.2	15747.8	15278.9	14852.1	14825.6	14956.5	12506.0	11166.3
52.5°	16900.6	16835.2	17001.9	17199.7	17383.5	17279.2	16246.3	15765.0	15646.6	12987.4	11535.5
55°	17634.3	17611.0	17897.6	18431.9	19131.4	19405.6	17737.1	16632.7	16263.5	13395.5	11569.8
57.5°	18073.6	18129.7	18735.7	19770.1	21137.8	21267.1	19481.9	17554.9	16807.1	13643.2	11733.4
60°	17322.8	17512.8	18603.3	20773.3	22845.2	22901.3	20735.9	17738.7	16095.2	12752.2	10859.4
62.5°	15073.3	15210.4	16925.5	20709.4	23430.9	23004.1	21016.3	16701.2	14105.9	10817.4	9236.2
65°	10650.7	10809.6	12876.8	18674.9	21317.0	21332.6	19251.3	14442.4	11275.4	8374.7	7131.6
67.5°	6424.4	6681.4	8639.6	13557.6	17551.8	17871.1	16060.9	10934.2	8069.4	5467.9	4615.8
70°	2107.7	2342.9	3944.4	8024.2	12652.5	14020.2	12062.1	7105.1	4213.9	2311.8	1861.6
72.5°	835.0	942.5	1389.6	3548.7	8153.5	9360.8	7432.3	3433.4	1414.5	613.8	534.3
75°	557.7	568.6	641.8	1208.9	3989.5	5118.9	3582.9	998.6	525.0	383.2	336.5
77.5°	486.0	487.6	520.3	637.1	1299.2	1962.8	1031.3	535.9	434.6	314.7	278.8
80°	445.5	451.8	472.0	543.7	595.1	666.7	509.4	447.1	377.0	289.8	263.3
82.5°	426.8	431.5	444.0	492.3	481.4	500.1	411.3	355.2	317.8	266.4	252.4
85°	389.5	397.2	405.0	434.6	395.7	342.7	317.8	238.3	227.4	201.0	185.4
87.5°	294.4	292.9	285.1	289.8	264.8	216.5	179.1	134.0	109.0	90.4	74.8
90°	123.1	124.6	120.0	113.7	99.7	82.6	62.3	37.4	18.7	6.2	3.1
92.5°	93.5	95.0	91.9	82.6	71.7	57.6	42.1	21.8	12.5	4.7	1.6
95°	57.6	59.2	56.1	49.8	43.6	32.7	21.8	14.0	7.8	3.1	0.0
97.5°	34.3	35.8	32.7	29.6	23.4	15.6	12.5	9.3	6.2	3.1	0.0
100°	20.3	20.3	18.7	15.6	10.9	9.3	7.8	6.2	4.7	1.6	0.0
102.5°	9.3	9.3	9.3	6.2	4.7	4.7	4.7	4.7	4.7	1.6	0.0
105°	3.1	3.1	1.6	1.6	1.6	3.1	3.1	3.1	3.1	1.6	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1	3.1	1.6	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	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°	3720.0	3720.0	3720.0	3720.0	3720.0	3720.0	3720.0	3720.0	3720.0	3720.0
2.5°	3759.0	3729.4	3734.1	3707.6	3701.3	3673.3	3723.1	3727.8	3713.8	3727.8
5°	3805.7	3769.9	3779.2	3749.6	3741.8	3702.9	3743.4	3740.3	3729.4	3743.4
7.5°	3874.3	3833.8	3838.4	3804.2	3796.4	3752.7	3790.1	3779.2	3766.8	3783.9
10°	3961.5	3922.5	3924.1	3877.4	3872.7	3822.8	3871.1	3850.9	3832.2	3857.1
12.5°	4083.0	4028.5	4023.8	3972.4	3970.8	3919.4	3969.3	3952.1	3927.2	3966.2
15°	4223.2	4150.0	4131.3	4065.9	4064.3	4009.8	4059.6	4033.2	4020.7	4067.4
17.5°	4405.5	4313.6	4171.8	3949.0	3847.8	3864.9	4040.9	4104.8	3938.1	3963.1
20°	4516.1	4070.5	3863.4	3771.4	3723.1	3445.9	3070.4	3101.6	3470.8	3646.8
22.5°	4329.1	4196.7	4120.4	3991.1	3318.1	3223.1	3244.9	3238.7	2762.0	2620.2
25°	4718.6	4594.0	4455.3	3657.7	3519.1	3478.6	3489.5	3042.4	2782.2	2793.1
27.5°	5279.4	5118.9	4240.3	3894.5	3866.5	3807.3	3592.3	3054.9	3087.6	3109.4
30°	5988.2	5418.0	4516.1	4365.0	4308.9	4245.0	3333.7	3413.1	3473.9	3540.9
32.5°	6673.6	5270.0	5044.2	4886.8	4799.6	3854.0	3760.5	3907.0	3967.7	4025.4
35°	6611.3	5904.1	5611.2	5411.8	5248.2	4159.3	4241.9	4464.7	4625.1	4623.6
37.5°	6782.7	6594.2	6256.1	6003.8	4555.0	4659.4	4832.3	5086.2	5281.0	5279.4
40°	7497.7	7293.6	6975.8	6433.7	5047.3	5290.3	5527.1	5765.4	5905.6	5916.5
42.5°	8208.1	8050.7	7764.1	5682.9	5650.2	5986.6	6234.3	6385.4	6471.1	6500.7
45°	8915.3	8767.3	7628.6	6285.7	6385.4	6718.8	6869.9	6899.5	6991.4	6988.3
47.5°	9477.7	9351.5	7017.9	7002.3	7250.0	7480.6	7432.3	7394.9	7418.3	7430.7
50°	9996.4	8141.1	7566.2	7793.7	8170.7	8198.7	7997.8	6335.6	7843.5	7817.1
52.5°	9286.1	7944.8	8077.2	8610.0	9251.8	8926.2	8533.6	5553.6	7355.9	8055.4
55°	8125.5	8259.5	8558.6	9452.7	10086.8	9700.4	9044.6	5718.7	4882.2	3974.0
57.5°	8287.5	8499.4	9068.0	10303.3	10856.3	7683.1	8441.7	4031.6	2729.3	2727.7
60°	7717.4	8038.3	9057.1	10685.0	8787.6	4922.7	3382.0	91.9	529.7	525.0
62.5°	6524.1	6980.5	8641.1	10443.5	7279.6	4000.4	3012.8	7.8	3.1	3.1
65°	5045.7	5583.2	7204.8	9043.0	6449.3	3445.9	2237.0	0.0	0.0	0.0
67.5°	3308.8	3807.3	5410.2	7511.7	5354.2	2604.6	1503.3	0.0	0.0	0.0
70°	1378.7	1994.0	3361.7	5428.9	3938.1	1705.8	713.5	0.0	0.0	0.0
72.5°	398.8	607.5	1514.2	3241.8	2444.2	892.6	264.8	0.0	0.0	0.0
75°	263.3	277.3	458.0	1303.9	1188.6	327.1	107.5	0.0	0.0	0.0
77.5°	221.2	227.4	291.3	364.5	381.7	129.3	87.2	0.0	0.0	0.0
80°	204.1	205.6	261.7	271.1	204.1	107.5	85.7	0.0	0.0	0.0
82.5°	190.1	185.4	222.8	215.0	169.8	93.5	79.4	0.0	0.0	0.0
85°	130.9	134.0	151.1	191.6	102.8	46.7	56.1	0.0	0.0	0.0
87.5°	40.5	46.7	59.2	60.8	18.7	6.2	0.0	0.0	0.0	0.0
90°	1.6	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: P579607  
 CATALOG NUMBER: CST-CA8-330-760-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)