

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: P522177

Luminaire Tested: **CST-CA10-760-760-U-T5R-HSS-HM-EX120**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-894-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-760-760-U-T5R-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 81803 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U2 - G5

Input Watts (W): 761.9
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

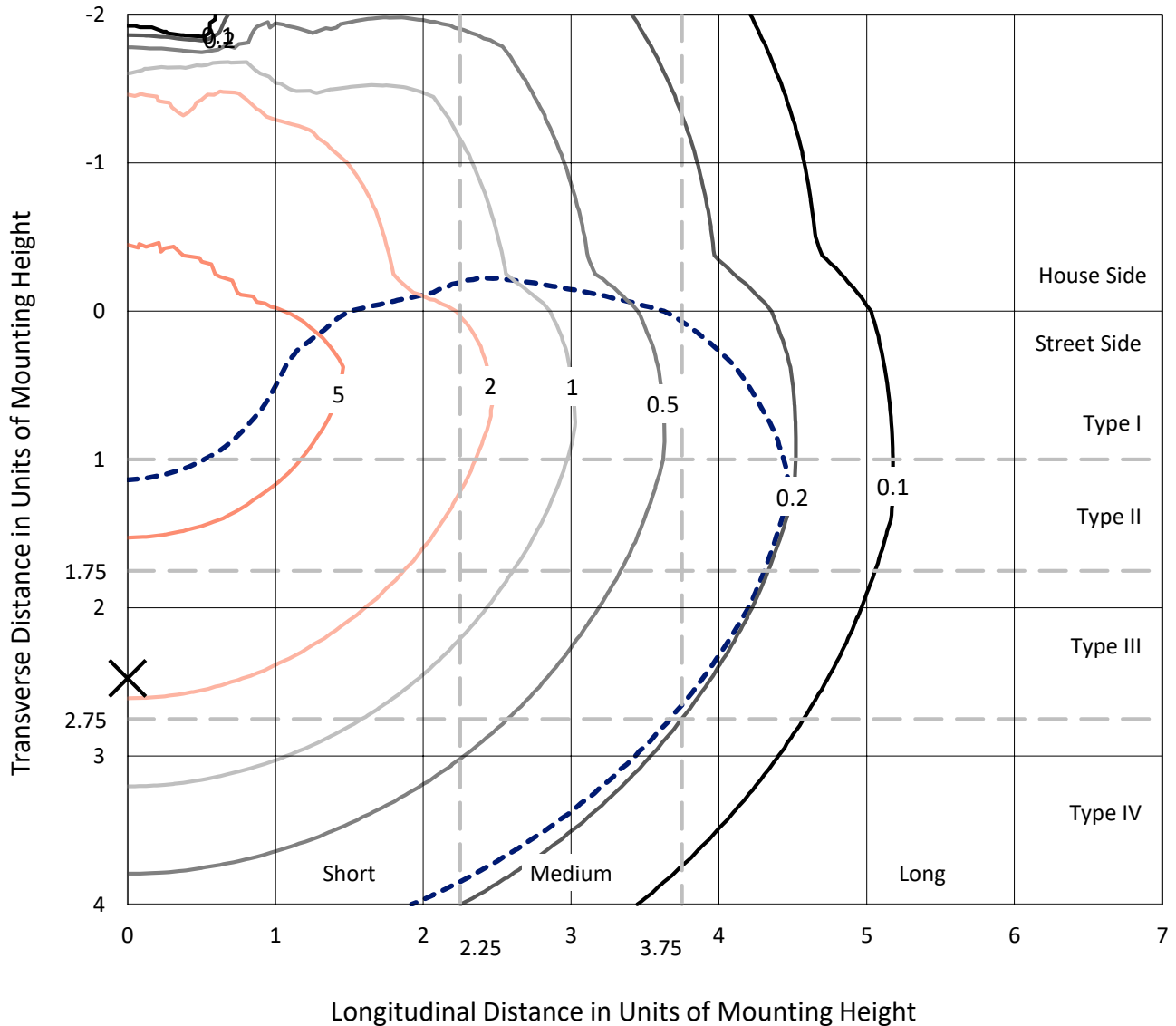




REPORT NUMBER: P522177
 CATALOG NUMBER: CST-CA10-760-760-U-T5R-HSS-HM-EX120

Iso-Footcandle Lines of Horizontal Illumination

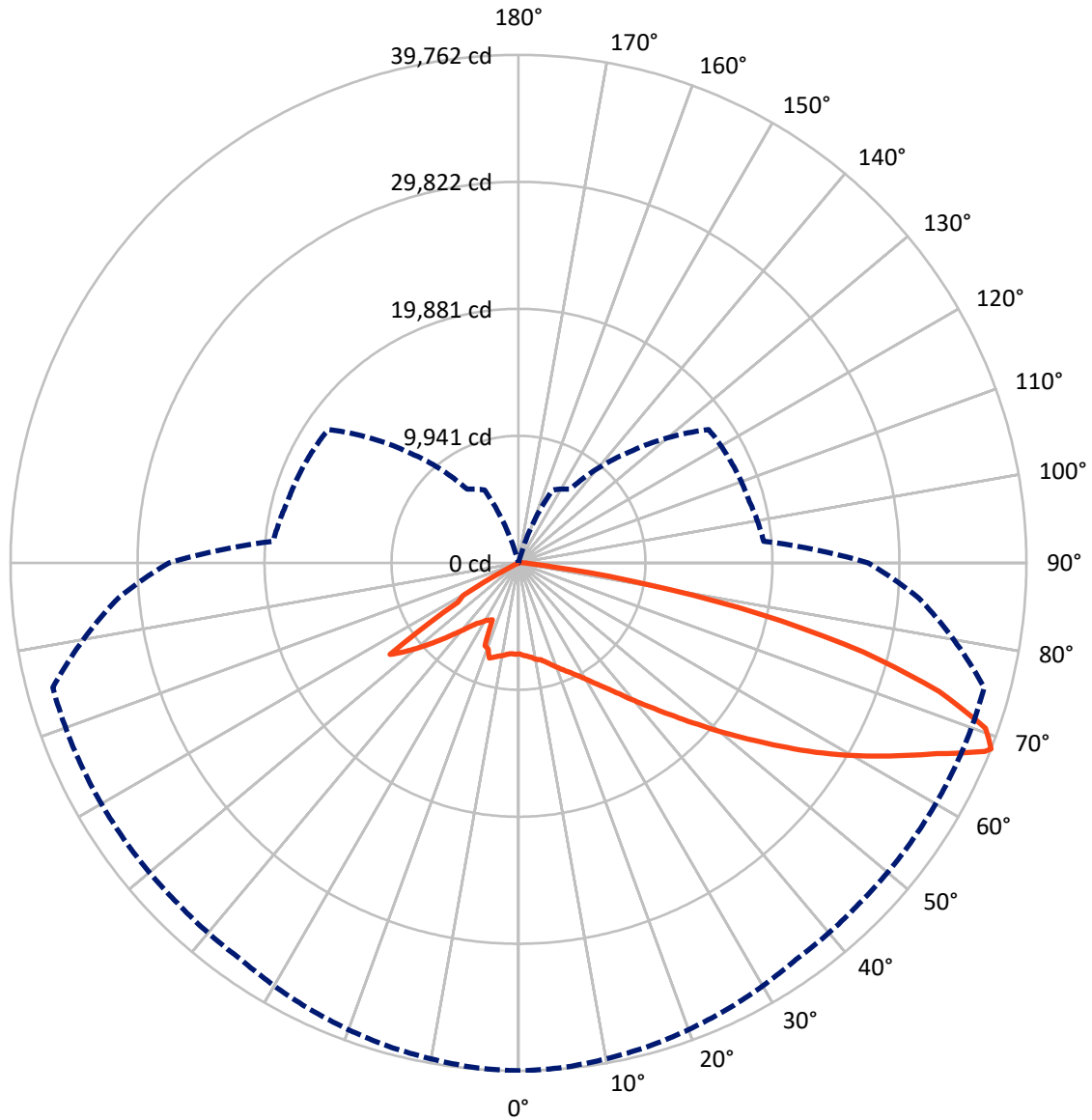
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P522177
CATALOG NUMBER: CST-CA10-760-760-U-T5R-HSS-HM-EX120

Luminous Intensity Polar Plot



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

REPORT NUMBER: P522177
 CATALOG NUMBER: CST-CA10-760-760-U-T5R-HSS-HM-EX120

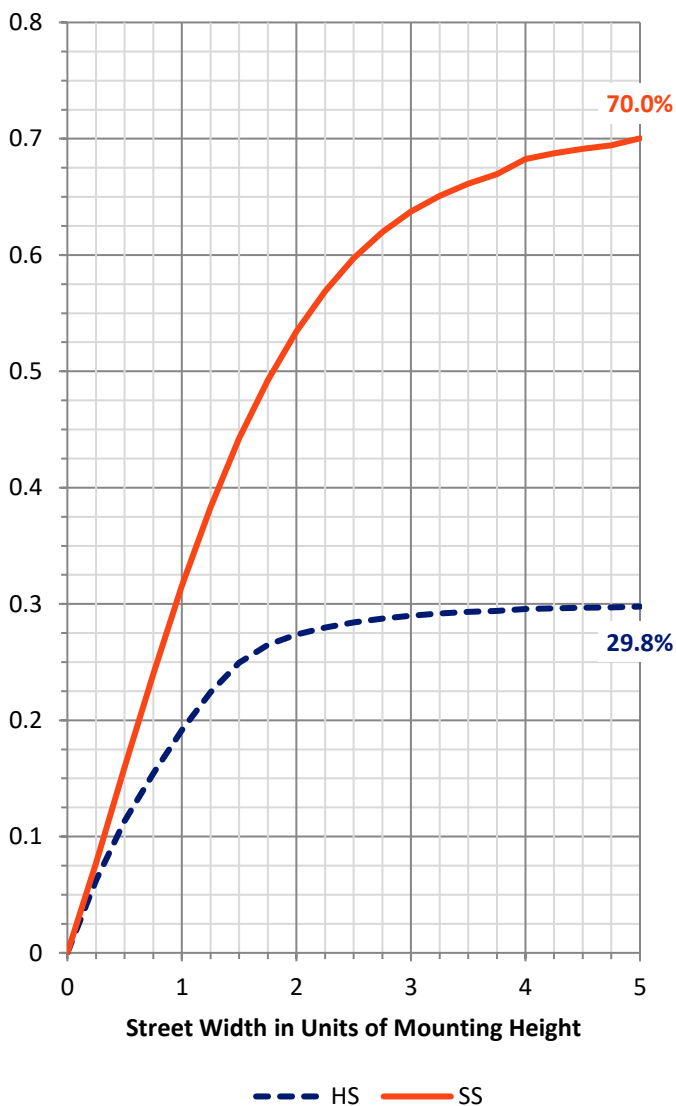
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24384.6	3.8	24388.4
	% Fixture	29.8	0.0	29.8
Street Side	Lumens	57381.2	33.5	57414.7
	% Fixture	70.1	0.0	70.2
Total	Lumens	81765.7	37.3	81803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	692.2	0.8
10°-20°	2203.0	2.7
20°-30°	3773.4	4.6
30°-40°	6121.4	7.5
40°-50°	10323.5	12.6
50°-60°	16827.5	20.6
60°-70°	22568.5	27.6
70°-80°	17529.8	21.4
80°-90°	1726.4	2.1
90°-100°	32.8	0.0
100°-110°	1.9	0.0
110°-120°	0.5	0.0
120°-130°	0.3	0.0
130°-140°	0.5	0.0
140°-150°	0.5	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-90°	81765.7	100.0
0°-180°	81803.0	100.0

Coefficient of Utilization

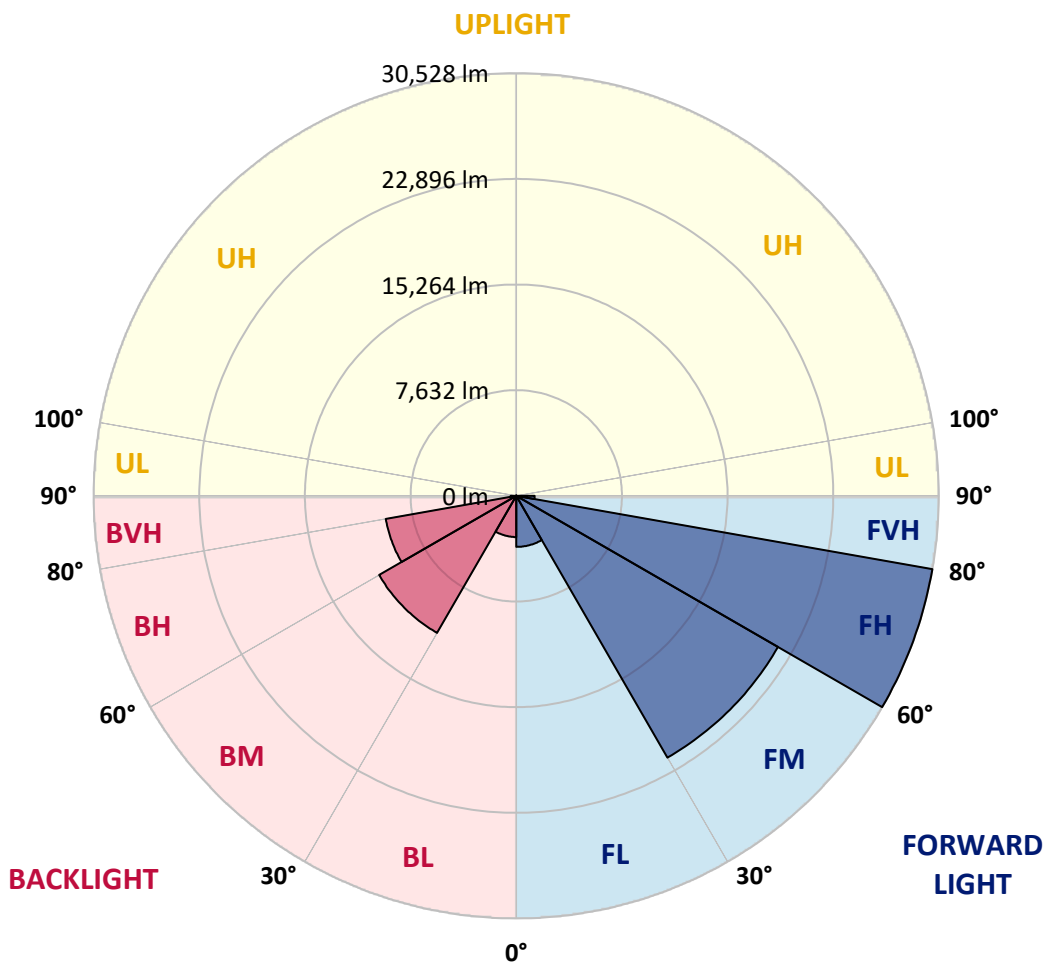


REPORT NUMBER: P522177
 CATALOG NUMBER: CST-CA10-760-760-U-T5R-HSS-HM-EX120

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3689.8	4.5			
FM (30°-60°)	21836.1	26.7			
FH (60°-80°)	30527.9	37.3			G5
FVH (80°-90°)	1327.4	1.6			G5
BL (0°-30°)	2978.9	3.6	B4/5000		
BM (30°-60°)	11436.3	14.0	B5		
BH (60°-80°)	9570.4	11.7	B5		G5
BVH (80°-90°)	399.0	0.5			G3/500
UL (90°-100°)	32.8	0.0		U2/50	
UH (100°-180°)	4.5	0.0		U1/10	

BUG Rating: B5-U2-G5
 Type IV Short





REPORT NUMBER: P522177

CATALOG NUMBER: CST-CA10-760-760-U-T5R-HSS-HM-EX120

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7131.7	7131.7	7131.7	7131.7	7131.7	7131.7	7131.7	7131.7	7131.7	7131.7	7131.7
2.5°	7250.1	7229.8	7226.4	7267.0	7138.5	7202.8	7145.2	7192.6	7162.2	7185.8	7189.2
5°	7348.2	7311.0	7287.3	7334.7	7253.5	7284.0	7219.7	7240.0	7155.4	7202.8	7209.5
7.5°	7490.3	7429.4	7422.7	7436.2	7365.1	7388.8	7284.0	7307.6	7246.7	7219.7	7243.4
10°	7683.2	7625.7	7581.7	7612.1	7517.4	7530.9	7419.3	7422.7	7378.7	7327.9	7368.5
12.5°	7791.4	7798.2	7777.9	7801.6	7723.8	7679.8	7602.0	7574.9	7530.9	7470.0	7449.7
15°	8062.1	8048.5	8007.9	8045.2	8035.0	7994.4	7899.7	7838.8	7744.1	7710.2	7676.4
17.5°	8393.6	8349.6	8315.8	8363.2	8413.9	8329.3	8238.0	8153.4	8028.2	7960.6	7920.0
20°	8742.1	8711.6	8677.8	8752.2	8769.2	8704.9	8637.2	8512.0	8366.6	8278.6	8194.0
22.5°	9131.2	9070.3	9080.4	9178.5	9148.1	9117.6	9029.7	8928.2	8752.2	8640.6	8397.0
25°	9533.8	9499.9	9547.3	9591.3	9567.6	9503.3	9459.3	9384.9	9188.7	9053.3	8698.1
27.5°	10034.5	9980.3	10041.2	10058.1	10037.8	10020.9	9960.0	9902.5	9689.4	9537.1	9093.9
30°	10623.1	10558.9	10657.0	10633.3	10613.0	10626.5	10589.3	10464.1	10274.7	10068.3	9625.1
32.5°	11323.4	11238.9	11350.5	11299.8	11252.4	11347.1	11259.2	11140.8	10917.5	10677.3	10244.2
35°	12135.4	12138.8	12196.3	12111.7	12094.8	12196.3	12138.8	11993.3	11786.9	11536.6	10920.9
37.5°	13119.9	13092.8	13238.3	13197.7	13136.8	13272.2	13289.1	13106.4	12734.2	12487.3	11759.9
40°	14317.6	14310.8	14358.1	14364.9	14348.0	14412.3	14442.7	14199.1	13958.9	13586.8	11096.8
42.5°	15596.4	15623.5	15708.0	15647.1	15728.3	15812.9	15823.1	15620.1	15275.0	13035.3	11786.9
45°	17132.3	17216.9	17274.4	17260.9	17298.1	17419.9	17430.1	17321.8	16983.5	14121.3	13038.7
47.5°	18895.0	18976.2	18993.1	19101.3	19067.5	19240.1	19216.4	19219.8	18857.8	15633.6	14402.1
50°	20921.5	20958.7	21097.4	21158.3	21073.7	21307.2	21246.3	21320.7	20874.1	17365.8	15867.0
52.5°	23073.2	23137.5	23195.0	23425.0	23316.8	23519.8	23438.6	23611.1	23093.5	19128.4	17494.3
55°	25519.2	25529.4	25627.5	25860.9	25718.8	25962.4	25844.0	25908.3	25495.5	21077.1	19189.3
57.5°	28110.7	28076.9	28114.1	28300.2	28171.6	28354.3	28306.9	28367.8	27982.1	23127.3	20427.5
60°	30675.1	30624.4	30678.5	30803.7	30627.8	30942.4	30773.3	30830.8	30414.6	25221.5	22193.6
62.5°	33253.1	33215.9	33155.0	33280.2	33023.1	33185.5	33256.5	33161.8	32796.4	27116.1	23729.5
65°	36020.5	35983.3	35760.0	35837.9	35377.7	35299.9	35327.0	35357.4	35113.9	28993.7	25414.3
67.5°	39383.4	39329.3	38909.8	38382.0	37718.9	37573.4	37587.0	37668.1	37702.0	31409.3	27386.7
68°	39762.3	39664.2	39197.3	38585.0	37891.4	37722.3	37705.4	37722.3	37739.2	31429.6	27366.4
70°	38794.7	38757.5	38402.3	37661.4	36950.9	36544.9	36193.1	36179.6	36017.2	29822.6	25854.1
72.5°	34427.1	34379.7	33956.8	33432.4	32992.6	32356.6	31899.9	31926.9	31659.6	26358.2	22630.0
75°	27860.4	27857.0	27349.5	26909.7	26916.5	26869.1	26716.8	26984.1	26706.7	22355.9	19301.0
77.5°	19416.0	19483.6	19449.8	19192.7	19554.7	20055.4	20600.1	21114.3	20955.3	17660.1	15390.0
80°	10142.7	10332.2	11002.0	11032.5	11286.2	11773.4	12145.6	12490.6	12514.3	10020.9	8891.0
82.5°	2696.4	2753.9	2980.6	2916.3	2896.0	2994.1	3075.3	3085.4	3092.2	2611.8	2439.3
85°	839.0	862.7	835.6	798.4	740.9	676.6	659.7	537.9	426.3	351.8	307.9
87.5°	595.4	636.0	575.1	541.3	480.4	456.7	409.4	321.4	250.4	175.9	118.4
90°	307.9	314.6	280.8	240.2	223.3	209.8	179.3	128.6	64.3	33.8	30.4
92.5°	155.6	159.0	138.7	118.4	101.5	88.0	67.7	37.2	20.3	10.1	3.4
95°	60.9	64.3	57.5	50.7	40.6	30.4	27.1	20.3	13.5	6.8	3.4
97.5°	20.3	20.3	20.3	16.9	16.9	16.9	16.9	13.5	10.1	6.8	3.4
100°	0.0	0.0	0.0	3.4	6.8	10.1	10.1	10.1	6.8	3.4	3.4
102.5°	0.0	0.0	0.0	0.0	0.0	3.4	6.8	6.8	6.8	3.4	3.4
105°	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4	3.4
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4



REPORT NUMBER: P522177
 CATALOG NUMBER: CST-CA10-760-760-U-T5R-HSS-HM-EX120

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	3.4	3.4	3.4
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4
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	3.4
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4
165°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4
170°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4
175°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4
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: P522177

CATALOG NUMBER: CST-CA10-760-760-U-T5R-HSS-HM-EX120

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7131.7	7131.7	7131.7	7131.7	7131.7	7131.7	7131.7	7131.7	7131.7	7131.7
2.5°	7172.3	7152.0	7162.2	7077.6	7097.9	7043.7	7158.8	7128.3	7114.8	7162.2
5°	7189.2	7114.8	7175.7	7118.2	7128.3	7050.5	7145.2	7108.0	7104.6	7131.7
7.5°	7196.0	7158.8	7216.3	7121.6	7152.0	7121.6	7192.6	7155.4	7189.2	7212.9
10°	7290.7	7270.4	7263.7	7229.8	7253.5	7185.8	7273.8	7273.8	7290.7	7355.0
12.5°	7429.4	7402.4	7385.4	7324.6	7348.2	7327.9	7399.0	7412.5	7443.0	7470.0
15°	7618.9	7571.5	7554.6	7500.5	7517.4	7514.0	7564.8	7568.1	7635.8	7632.4
17.5°	7862.5	7794.8	7815.1	7774.5	7777.9	7750.8	7723.8	7723.8	7784.7	7798.2
20°	8153.4	7767.7	7260.3	6976.1	6925.3	6962.6	7108.0	7348.2	7047.1	7131.7
22.5°	7629.0	7280.6	7256.9	7192.6	7152.0	6245.3	6011.9	5937.5	6326.5	6996.4
25°	7696.7	7547.8	7503.9	7422.7	6225.0	6214.9	6147.2	6035.6	4932.7	4909.0
27.5°	8055.3	7909.8	7838.8	6502.4	6475.4	6472.0	6370.5	5250.7	4996.9	5030.8
30°	8474.8	8305.7	7033.6	6830.6	6806.9	6752.8	6170.9	5186.4	5183.0	5186.4
32.5°	8958.6	8397.0	7236.6	7226.4	7240.0	7074.2	5467.2	5446.9	5443.5	5477.3
35°	9621.7	7791.4	7744.1	7794.8	7723.8	6116.8	5795.4	5785.2	5788.6	5771.7
37.5°	9181.9	8400.4	8390.2	8390.2	8224.5	6258.9	6194.6	6241.9	6235.2	6211.5
40°	9368.0	9137.9	9077.0	9056.7	6952.4	6752.8	6715.6	6776.5	6786.6	6803.5
42.5°	10271.3	10061.5	10031.1	9790.9	7564.8	7500.5	7385.4	7449.7	7443.0	7463.3
45°	11381.0	11238.9	11106.9	8488.4	8390.2	8309.1	8190.6	8265.1	8285.4	8271.8
47.5°	12673.3	12517.7	11563.7	9334.1	9330.8	9266.5	9134.5	9195.4	9185.3	9185.3
50°	13972.5	13803.3	10504.7	10410.0	10376.2	10274.7	10166.4	10176.6	10179.9	10213.8
52.5°	15423.8	12328.2	11627.9	11438.5	11465.5	11397.9	11293.0	8549.3	11242.3	11272.7
55°	14415.7	12903.4	12862.8	12612.4	12676.7	12588.8	12521.1	8434.2	11181.4	12355.3
57.5°	14253.3	14145.0	14111.2	13854.1	13935.3	13099.6	13725.5	9229.3	7733.9	5649.9
60°	15494.9	15379.9	15359.6	15132.9	15126.1	10410.0	12477.1	6329.9	4946.2	4980.0
62.5°	16699.3	16513.2	16564.0	16296.7	11489.2	6343.4	5592.4	142.1	226.7	240.2
65°	18042.4	17731.2	17781.9	17534.9	11851.2	6688.5	6045.7	74.4	64.3	60.9
67.5°	19334.8	18790.1	18529.6	18269.1	12308.0	7043.7	6299.5	20.3	0.0	0.0
68°	19270.5	18695.4	18428.1	18181.1	12260.6	7033.6	6285.9	20.3	0.0	0.0
70°	18184.5	17666.9	17413.1	17223.7	11705.7	6793.4	6032.2	20.3	0.0	0.0
72.5°	15897.5	15609.9	15447.5	15281.8	10399.8	6076.2	5409.7	20.3	0.0	0.0
75°	13509.0	13427.8	13326.3	12960.9	8667.7	4973.3	4445.5	20.3	0.0	0.0
77.5°	10704.3	10700.9	10454.0	10024.3	6526.1	3650.4	3278.3	16.9	0.0	0.0
80°	5788.6	6309.6	6120.1	5900.2	3701.2	1985.9	1891.2	13.5	0.0	0.0
82.5°	1627.3	1539.3	1478.4	1383.7	778.1	433.0	422.9	13.5	0.0	0.0
85°	226.7	250.4	277.4	314.6	179.3	115.0	101.5	6.8	0.0	0.0
87.5°	128.6	145.5	179.3	186.1	67.7	54.1	16.9	0.0	0.0	0.0
90°	27.1	30.4	33.8	33.8	13.5	13.5	0.0	0.0	0.0	0.0
92.5°	0.0	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P522177
 CATALOG NUMBER: CST-CA10-760-760-U-T5R-HSS-HM-EX120

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	3.4	3.4	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)