

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: P522123

Luminaire Tested: **CST-CA10-210-760-U-T5R-HSS-HM-EX120**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522123
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-CA10-210-760-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: 26801 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U2 - G4

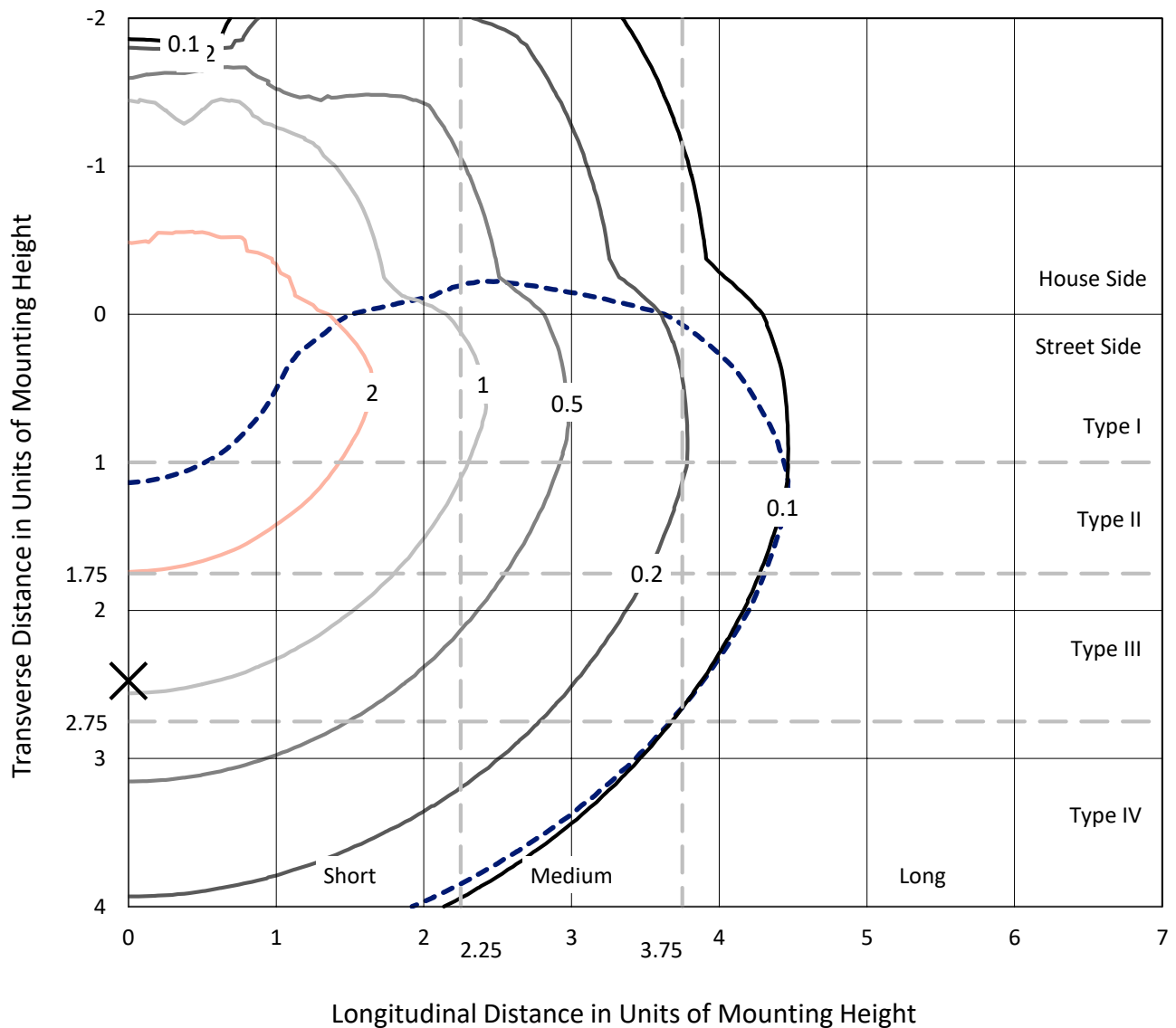
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522123
 CATALOG NUMBER: CST-CA10-210-760-U-T5R-HSS-HM-EX120

Iso-Footcandle Lines of Horizontal Illumination

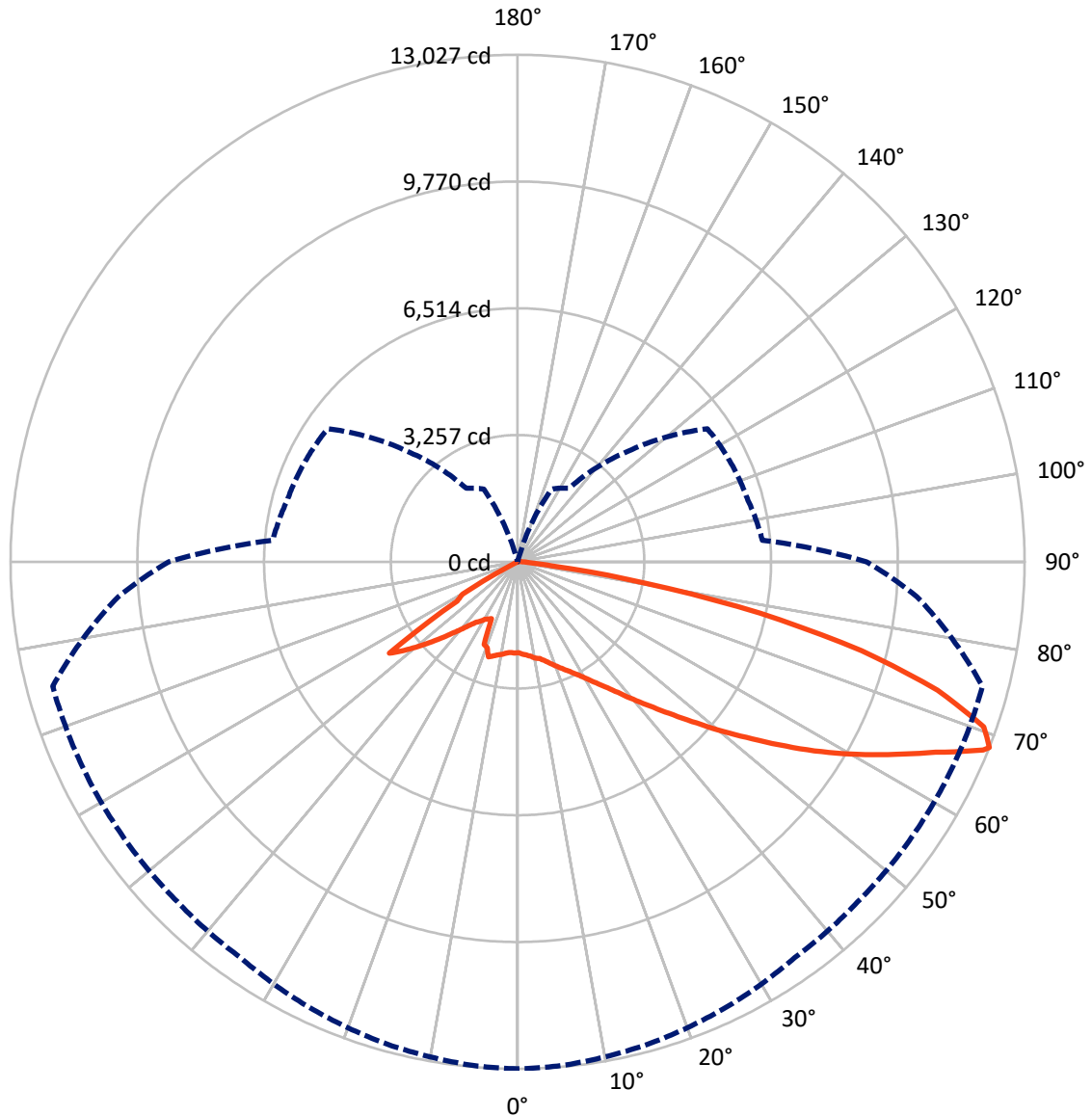
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P522123
CATALOG NUMBER: CST-CA10-210-760-U-T5R-HSS-HM-EX120

Luminous Intensity Polar Plot



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



REPORT NUMBER: P522123
 CATALOG NUMBER: CST-CA10-210-760-U-T5R-HSS-HM-EX120

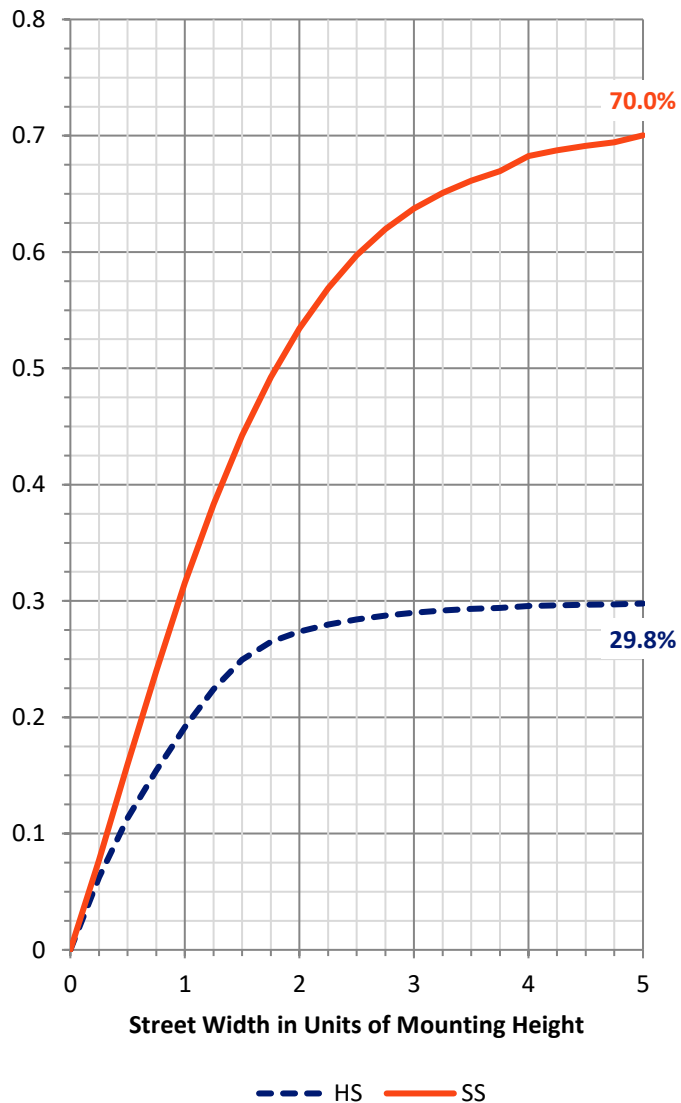
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7989.1	1.2	7990.3
	% Fixture	29.8	0.0	29.8
Street Side	Lumens	18799.7	11.0	18810.7
	% Fixture	70.1	0.0	70.2
Total	Lumens	26788.8	12.2	26801.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.8	0.8
10°-20°	721.8	2.7
20°-30°	1236.3	4.6
30°-40°	2005.5	7.5
40°-50°	3382.3	12.6
50°-60°	5513.2	20.6
60°-70°	7394.1	27.6
70°-80°	5743.3	21.4
80°-90°	565.6	2.1
90°-100°	10.7	0.0
100°-110°	0.6	0.0
110°-120°	0.2	0.0
120°-130°	0.1	0.0
130°-140°	0.2	0.0
140°-150°	0.2	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	26788.8	100.0
0°-180°	26801.0	100.0

Coefficient of Utilization

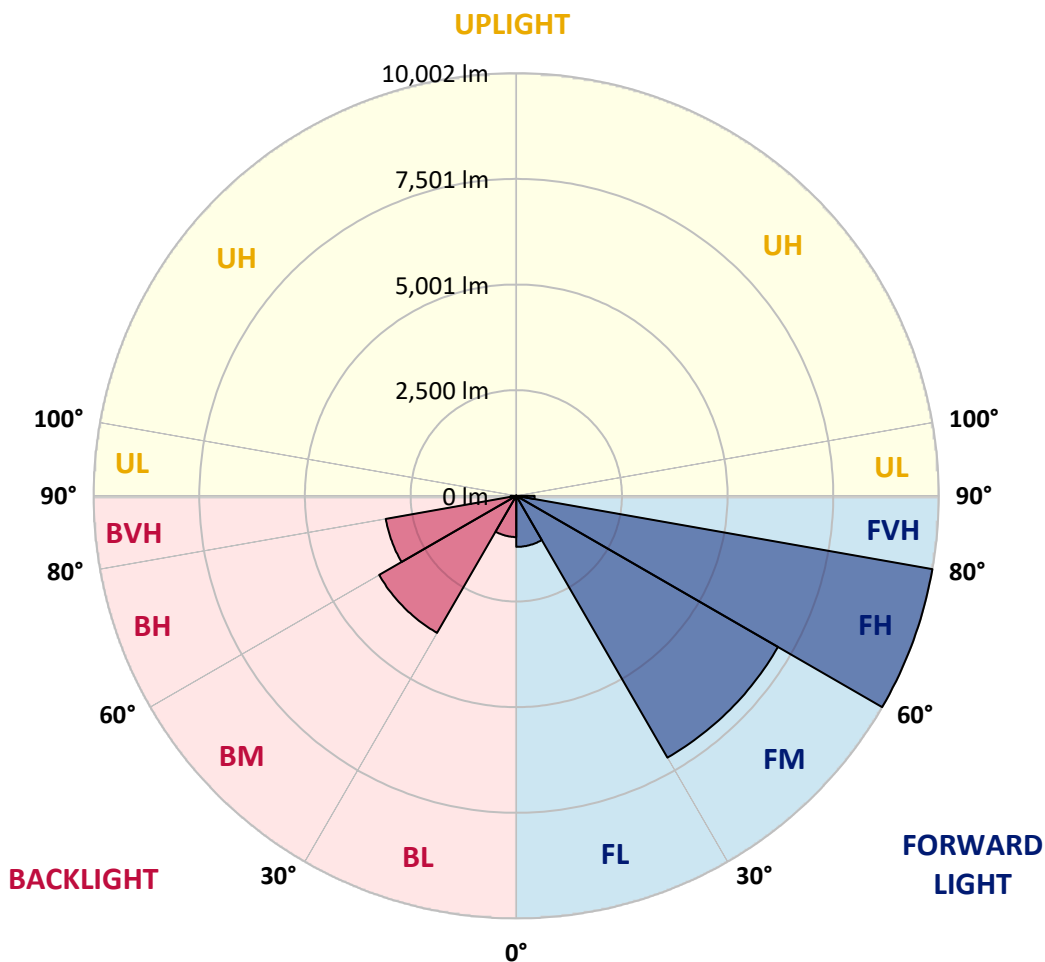


REPORT NUMBER: P522123
 CATALOG NUMBER: CST-CA10-210-760-U-T5R-HSS-HM-EX120

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1208.9	4.5			
FM (30°-60°)	7154.1	26.7			
FH (60°-80°)	10001.8	37.3			G4/12000
FVH (80°-90°)	434.9	1.6			G3/500
BL (0°-30°)	976.0	3.6	B2/1000		
BM (30°-60°)	3746.9	14.0	B3/5000		
BH (60°-80°)	3135.5	11.7	B4/5000		G4/5000
BVH (80°-90°)	130.7	0.5			G2/225
UL (90°-100°)	10.7	0.0		U2/50	
UH (100°-180°)	1.5	0.0		U1/10	

BUG Rating: B4-U2-G4
 Type IV Short





REPORT NUMBER: P522123

CATALOG NUMBER: CST-CA10-210-760-U-T5R-HSS-HM-EX120

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6
2.5°	2375.3	2368.7	2367.6	2380.9	2338.8	2359.8	2341.0	2356.5	2346.5	2354.3	2355.4
5°	2407.5	2395.3	2387.5	2403.1	2376.5	2386.4	2365.4	2372.0	2344.3	2359.8	2362.0
7.5°	2454.0	2434.1	2431.9	2436.3	2413.0	2420.8	2386.4	2394.2	2374.2	2365.4	2373.1
10°	2517.2	2498.4	2484.0	2493.9	2462.9	2467.3	2430.8	2431.9	2417.5	2400.8	2414.1
12.5°	2552.7	2554.9	2548.3	2556.0	2530.5	2516.1	2490.6	2481.8	2467.3	2447.4	2440.7
15°	2641.4	2636.9	2623.6	2635.8	2632.5	2619.2	2588.2	2568.2	2537.2	2526.1	2515.0
17.5°	2750.0	2735.6	2724.5	2740.0	2756.6	2728.9	2699.0	2671.3	2630.3	2608.1	2594.8
20°	2864.2	2854.2	2843.1	2867.5	2873.0	2852.0	2829.8	2788.8	2741.1	2712.3	2684.6
22.5°	2991.6	2971.7	2975.0	3007.1	2997.2	2987.2	2958.4	2925.1	2867.5	2830.9	2751.1
25°	3123.5	3112.4	3128.0	3142.4	3134.6	3113.6	3099.1	3074.8	3010.5	2966.1	2849.8
27.5°	3287.6	3269.8	3289.8	3295.3	3288.7	3283.1	3263.2	3244.3	3174.5	3124.6	2979.4
30°	3480.4	3459.4	3491.5	3483.8	3477.1	3481.6	3469.4	3428.3	3366.3	3298.7	3153.5
32.5°	3709.9	3682.2	3718.8	3702.1	3686.6	3717.6	3688.8	3650.0	3576.9	3498.2	3356.3
35°	3975.9	3977.0	3995.9	3968.1	3962.6	3995.9	3977.0	3929.4	3861.7	3779.7	3578.0
37.5°	4298.5	4289.6	4337.3	4324.0	4304.0	4348.3	4353.9	4294.0	4172.1	4091.2	3852.9
40°	4690.8	4688.6	4704.1	4706.4	4700.8	4721.9	4731.9	4652.0	4573.3	4451.4	3635.6
42.5°	5109.8	5118.7	5146.4	5126.4	5153.1	5180.8	5184.1	5117.6	5004.5	4270.7	3861.7
45°	5613.0	5640.8	5659.6	5655.2	5667.4	5707.3	5710.6	5675.1	5564.3	4626.6	4271.9
47.5°	6190.5	6217.1	6222.7	6258.1	6247.1	6303.6	6295.8	6296.9	6178.3	5122.0	4718.5
50°	6854.5	6866.7	6912.1	6932.1	6904.4	6980.8	6960.9	6985.3	6839.0	5689.5	5198.5
52.5°	7559.4	7580.5	7599.3	7674.7	7639.2	7705.7	7679.1	7735.7	7566.1	6267.0	5731.6
55°	8360.8	8364.1	8396.3	8472.8	8426.2	8506.0	8467.2	8488.3	8353.1	6905.5	6287.0
57.5°	9209.9	9198.8	9211.0	9271.9	9229.8	9289.7	9274.2	9294.1	9167.8	7577.2	6692.6
60°	10050.1	10033.4	10051.2	10092.2	10034.5	10137.6	10082.2	10101.0	9964.7	8263.3	7271.2
62.5°	10894.7	10882.5	10862.5	10903.5	10819.3	10872.5	10895.8	10864.7	10745.0	8884.0	7774.5
65°	11801.4	11789.2	11716.0	11741.5	11590.8	11565.3	11574.1	11584.1	11504.3	9499.2	8326.5
67.5°	12903.1	12885.4	12748.0	12575.0	12357.8	12310.1	12314.6	12341.2	12352.2	10290.6	8972.7
68°	13027.3	12995.1	12842.2	12641.5	12414.3	12358.9	12353.4	12358.9	12364.4	10297.2	8966.0
70°	12710.3	12698.1	12581.7	12338.9	12106.2	11973.2	11857.9	11853.5	11800.3	9770.7	8470.6
72.5°	11279.3	11263.8	11125.2	10953.4	10809.3	10600.9	10451.3	10460.2	10372.6	8635.7	7414.2
75°	9127.8	9126.7	8960.5	8816.4	8818.6	8803.1	8753.2	8840.8	8749.9	7324.4	6323.5
77.5°	6361.2	6383.4	6372.3	6288.1	6406.7	6570.7	6749.2	6917.7	6865.6	5786.0	5042.2
80°	3323.0	3385.1	3604.6	3614.6	3697.7	3857.3	3979.2	4092.3	4100.0	3283.1	2912.9
82.5°	883.4	902.3	976.5	955.5	948.8	981.0	1007.6	1010.9	1013.1	855.7	799.2
85°	274.9	282.6	273.8	261.6	242.7	221.7	216.1	176.2	139.7	115.3	100.9
87.5°	195.1	208.4	188.4	177.3	157.4	149.6	134.1	105.3	82.0	57.6	38.8
90°	100.9	103.1	92.0	78.7	73.2	68.7	58.7	42.1	21.1	11.1	10.0
92.5°	51.0	52.1	45.4	38.8	33.3	28.8	22.2	12.2	6.7	3.3	1.1
95°	20.0	21.1	18.8	16.6	13.3	10.0	8.9	6.7	4.4	2.2	1.1
97.5°	6.7	6.7	6.7	5.5	5.5	5.5	5.5	4.4	3.3	2.2	1.1
100°	0.0	0.0	0.0	1.1	2.2	3.3	3.3	3.3	2.2	1.1	1.1
102.5°	0.0	0.0	0.0	0.0	0.0	1.1	2.2	2.2	2.2	1.1	1.1
105°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1



REPORT NUMBER: P522123
 CATALOG NUMBER: CST-CA10-210-760-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	1.1	1.1	1.1
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
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	1.1
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
165°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
170°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
175°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
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: P522123

CATALOG NUMBER: CST-CA10-210-760-U-T5R-HSS-HM-EX120

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6
2.5°	2349.9	2343.2	2346.5	2318.8	2325.5	2307.7	2345.4	2335.4	2331.0	2346.5
5°	2355.4	2331.0	2351.0	2332.1	2335.4	2309.9	2341.0	2328.8	2327.7	2336.6
7.5°	2357.6	2345.4	2364.3	2333.2	2343.2	2333.2	2356.5	2344.3	2355.4	2363.2
10°	2388.6	2382.0	2379.8	2368.7	2376.5	2354.3	2383.1	2383.1	2388.6	2409.7
12.5°	2434.1	2425.2	2419.7	2399.7	2407.5	2400.8	2424.1	2428.6	2438.5	2447.4
15°	2496.2	2480.6	2475.1	2457.4	2462.9	2461.8	2478.4	2479.5	2501.7	2500.6
17.5°	2576.0	2553.8	2560.5	2547.2	2548.3	2539.4	2530.5	2530.5	2550.5	2554.9
20°	2671.3	2544.9	2378.7	2285.6	2268.9	2281.1	2328.8	2407.5	2308.8	2336.6
22.5°	2499.5	2385.3	2377.6	2356.5	2343.2	2046.1	1969.7	1945.3	2072.7	2292.2
25°	2521.7	2472.9	2458.5	2431.9	2039.5	2036.2	2014.0	1977.4	1616.1	1608.3
27.5°	2639.2	2591.5	2568.2	2130.4	2121.5	2120.4	2087.2	1720.3	1637.1	1648.2
30°	2776.6	2721.2	2304.4	2237.9	2230.1	2212.4	2021.8	1699.2	1698.1	1699.2
32.5°	2935.1	2751.1	2370.9	2367.6	2372.0	2317.7	1791.2	1784.6	1783.4	1794.5
35°	3152.3	2552.7	2537.2	2553.8	2530.5	2004.0	1898.7	1895.4	1896.5	1891.0
37.5°	3008.3	2752.2	2748.9	2748.9	2694.6	2050.6	2029.5	2045.0	2042.8	2035.1
40°	3069.2	2993.8	2973.9	2967.2	2277.8	2212.4	2200.2	2220.2	2223.5	2229.0
42.5°	3365.2	3296.4	3286.5	3207.8	2478.4	2457.4	2419.7	2440.7	2438.5	2445.2
45°	3728.7	3682.2	3638.9	2781.0	2748.9	2722.3	2683.5	2707.9	2714.5	2710.1
47.5°	4152.1	4101.2	3788.6	3058.1	3057.0	3036.0	2992.7	3012.7	3009.4	3009.4
50°	4577.8	4522.4	3441.6	3410.6	3399.5	3366.3	3330.8	3334.1	3335.2	3346.3
52.5°	5053.3	4039.1	3809.6	3747.6	3756.4	3734.3	3699.9	2801.0	3683.3	3693.3
55°	4723.0	4227.5	4214.2	4132.2	4153.3	4124.4	4102.3	2763.3	3663.3	4048.0
57.5°	4669.8	4634.3	4623.2	4539.0	4565.6	4291.8	4496.9	3023.8	2533.9	1851.1
60°	5076.6	5038.9	5032.2	4958.0	4955.8	3410.6	4087.9	2073.9	1620.5	1631.6
62.5°	5471.2	5410.2	5426.8	5339.3	3764.2	2078.3	1832.2	46.6	74.3	78.7
65°	5911.2	5809.2	5825.9	5744.9	3882.8	2191.3	1980.7	24.4	21.1	20.0
67.5°	6334.6	6156.2	6070.8	5985.5	4032.4	2307.7	2063.9	6.7	0.0	0.0
68°	6313.6	6125.1	6037.6	5956.7	4016.9	2304.4	2059.4	6.7	0.0	0.0
70°	5957.8	5788.2	5705.0	5643.0	3835.1	2225.7	1976.3	6.7	0.0	0.0
72.5°	5208.5	5114.3	5061.1	5006.7	3407.3	1990.7	1772.4	6.7	0.0	0.0
75°	4425.9	4399.3	4366.1	4246.4	2839.8	1629.4	1456.5	6.7	0.0	0.0
77.5°	3507.0	3505.9	3425.0	3284.3	2138.1	1196.0	1074.1	5.5	0.0	0.0
80°	1896.5	2067.2	2005.1	1933.1	1212.6	650.6	619.6	4.4	0.0	0.0
82.5°	533.2	504.3	484.4	453.3	254.9	141.9	138.6	4.4	0.0	0.0
85°	74.3	82.0	90.9	103.1	58.7	37.7	33.3	2.2	0.0	0.0
87.5°	42.1	47.7	58.7	61.0	22.2	17.7	5.5	0.0	0.0	0.0
90°	8.9	10.0	11.1	11.1	4.4	4.4	0.0	0.0	0.0	0.0
92.5°	0.0	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P522123
 CATALOG NUMBER: CST-CA10-210-760-U-T5R-HSS-HM-EX120

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	1.1	1.1	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)