

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: P510525

Luminaire Tested: **CST-CA10-630-727-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-630-727-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 81188 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

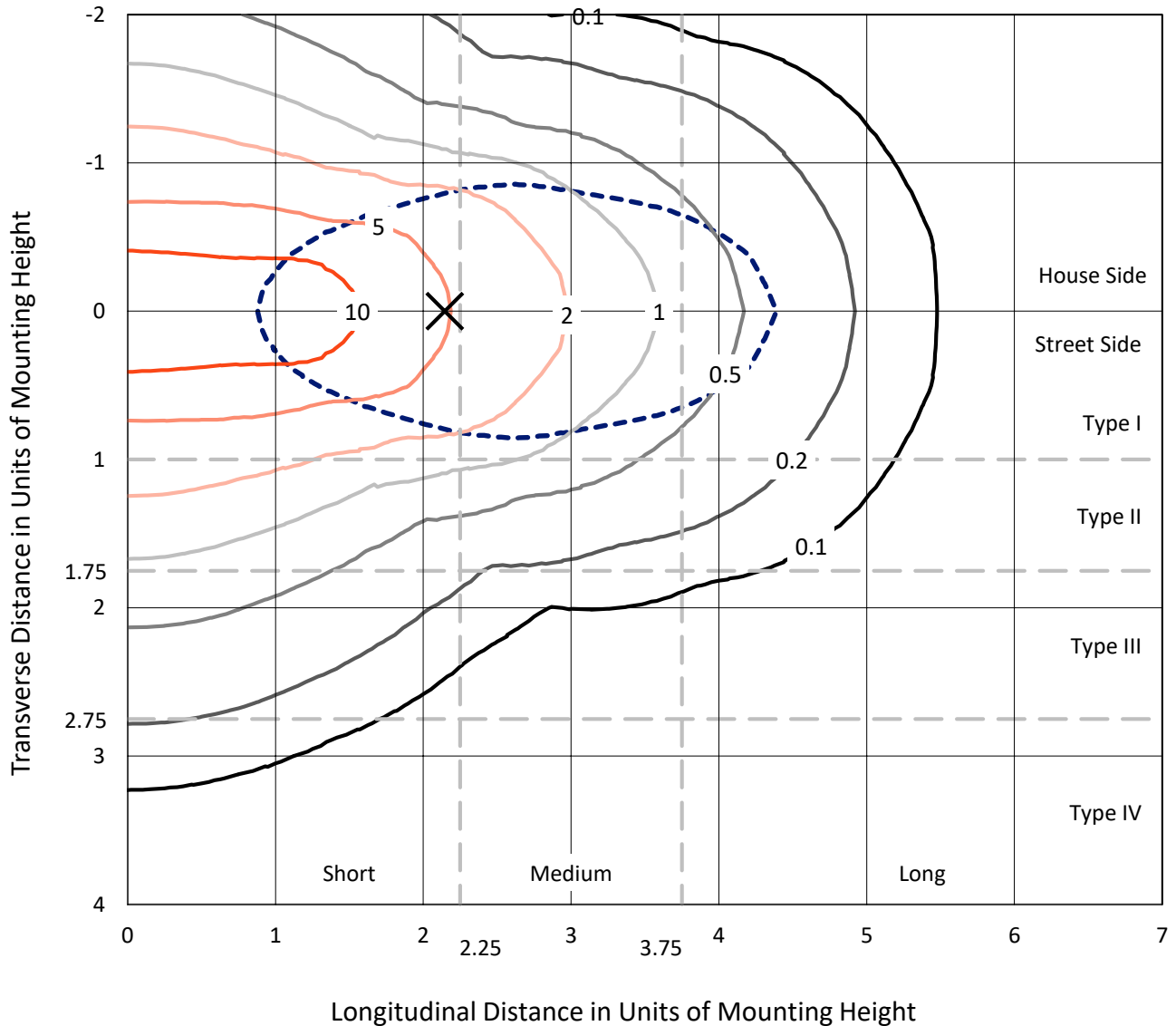
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510525
 CATALOG NUMBER: CST-CA10-630-727-U-T1

Iso-Footcandle Lines of Horizontal Illumination

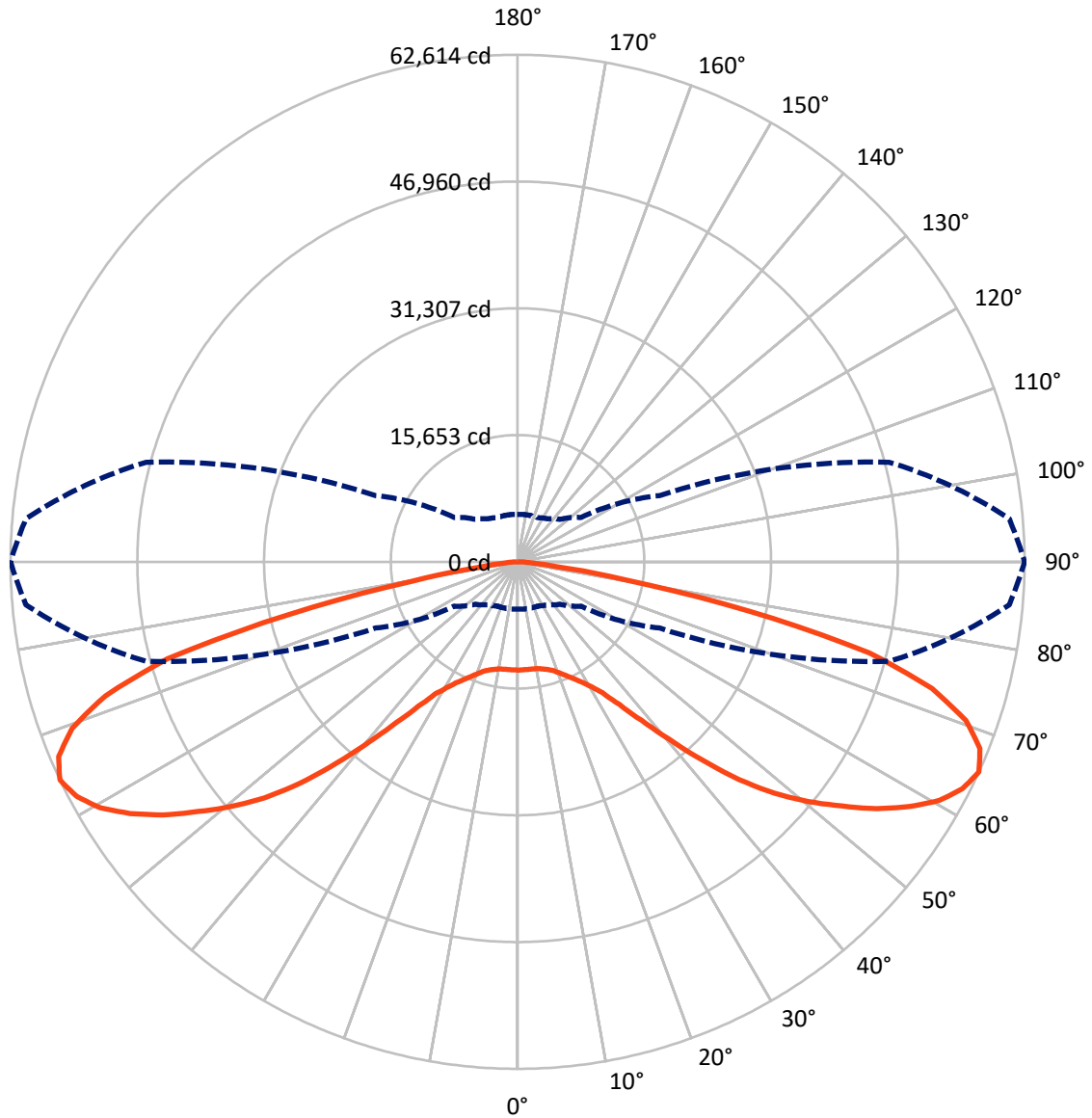
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.1 fc
 Type I - Short - N/A

REPORT NUMBER: P510525
CATALOG NUMBER: CST-CA10-630-727-U-T1

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P510525
 CATALOG NUMBER: CST-CA10-630-727-U-T1

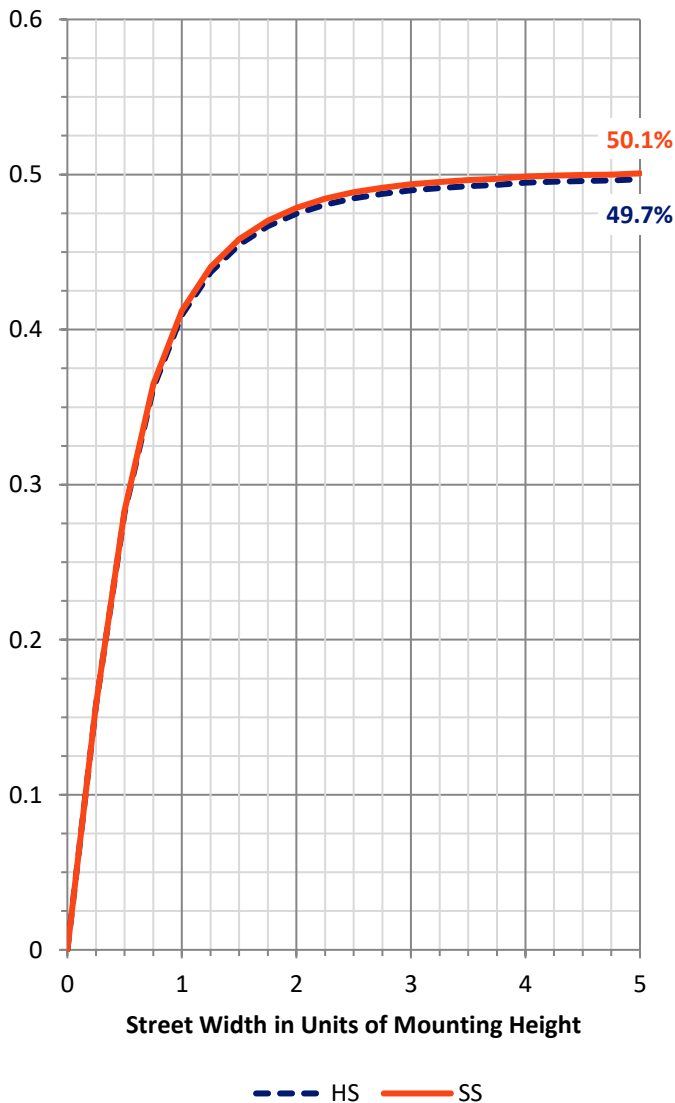
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	40594.0	0.0	40594.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	40594.0	0.0	40594.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	81188.0	0.0	81188.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1269.3	1.6
10°-20°	3745.7	4.6
20°-30°	6170.1	7.6
30°-40°	9039.9	11.1
40°-50°	13366.5	16.5
50°-60°	17533.4	21.6
60°-70°	18292.3	22.5
70°-80°	10517.1	13.0
80°-90°	1253.7	1.5
90°-100°	0.0	0.0
100°-110°	0.0	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°	81188.0	100.0
0°-180°	81188.0	100.0

Coefficient of Utilization

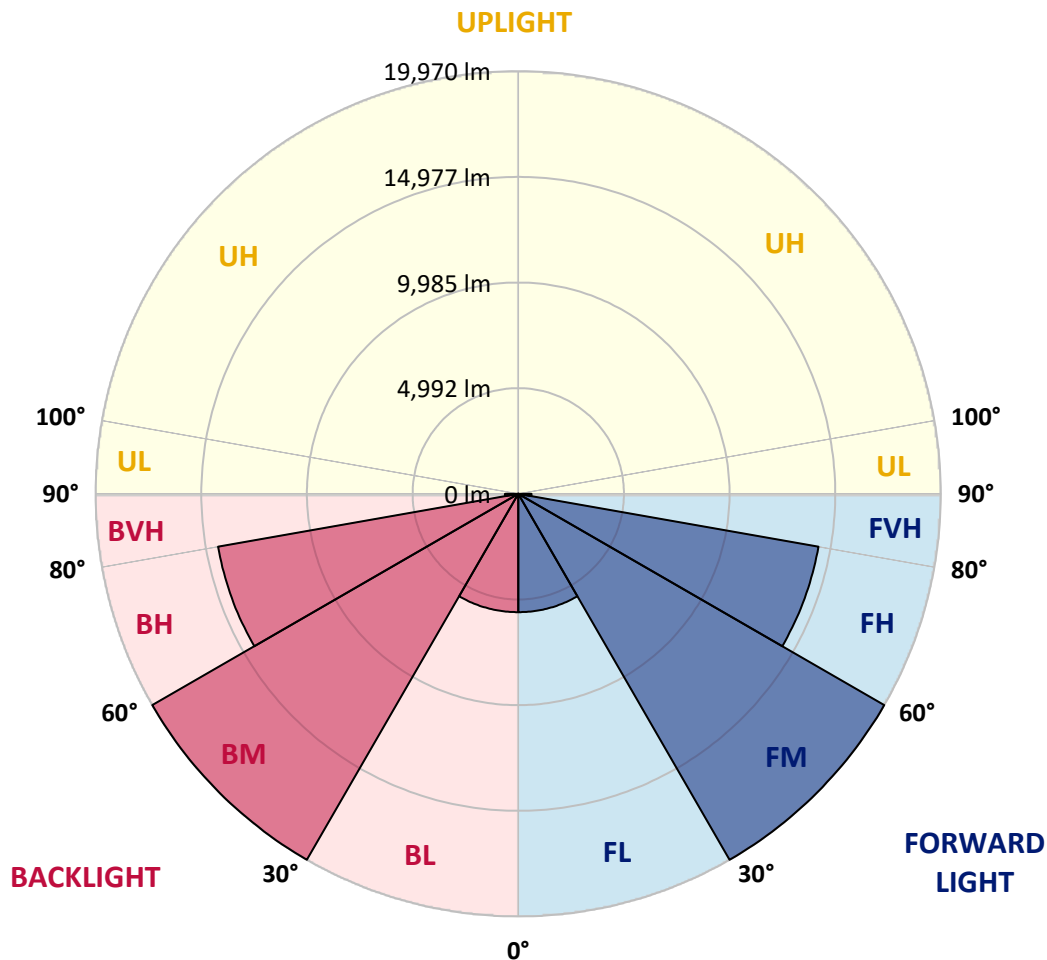


REPORT NUMBER: P510525
 CATALOG NUMBER: CST-CA10-630-727-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5592.5	6.9			
FM (30°-60°)	19969.9	24.6			
FH (60°-80°)	14404.7	17.7			G5
FVH (80°-90°)	626.9	0.8			G4/750
BL (0°-30°)	5592.5	6.9	B5		
BM (30°-60°)	19969.9	24.6	B5		
BH (60°-80°)	14404.7	17.7	B5		G5
BVH (80°-90°)	626.9	0.8			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type I Short





REPORT NUMBER: P510525

CATALOG NUMBER: CST-CA10-630-727-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	13375.5	13375.5	13375.5	13375.5	13375.5	13375.5	13375.5	13375.5	13375.5	13375.5	13375.5
2.5°	13372.3	13362.8	13359.6	13354.9	13362.8	13369.1	13385.0	13399.3	13396.1	13392.9	13396.1
5°	13297.7	13302.5	13304.1	13305.7	13312.0	13316.8	13339.0	13361.2	13358.0	13354.9	13370.7
7.5°	13193.0	13193.0	13189.8	13186.6	13199.3	13210.5	13232.7	13254.9	13272.3	13288.2	13313.6
10°	13040.7	13034.3	13032.7	13031.1	13045.4	13058.1	13099.4	13140.6	13175.5	13208.9	13251.7
12.5°	12855.0	12853.4	12856.6	12859.8	12889.9	12920.1	12989.9	13059.7	13129.5	13199.3	13261.2
15°	12634.4	12615.4	12631.3	12645.5	12694.7	12742.3	12877.2	13012.1	13118.4	13223.1	13343.7
17.5°	12298.0	12279.0	12302.8	12325.0	12423.4	12521.8	12712.2	12901.0	13101.0	13300.9	13473.9
20°	11788.6	11788.6	11848.9	11909.2	12075.9	12242.5	12504.3	12764.5	13034.3	13304.1	13554.8
22.5°	11245.9	11230.1	11358.6	11487.1	11687.1	11885.4	12215.5	12545.6	12902.6	13258.1	13602.4
25°	10633.4	10660.4	10822.3	10982.5	11263.4	11542.7	11948.9	12353.6	12802.6	13251.7	13729.3
27.5°	10116.1	10120.9	10316.1	10511.2	10863.5	11214.2	11707.7	12201.2	12748.7	13296.1	13897.6
30°	9581.3	9668.6	9874.9	10079.6	10473.1	10866.7	11463.3	12058.4	12707.4	13356.4	14089.6
32.5°	9170.4	9191.0	9424.2	9655.9	10066.9	10477.9	11171.4	11864.8	12643.9	13423.1	14314.9
35°	8783.2	8816.5	9033.9	9251.3	9679.7	10106.6	10866.7	11625.2	12556.7	13486.6	14559.3
37.5°	8438.8	8480.1	8686.4	8892.7	9305.2	9717.8	10523.9	11330.0	12421.8	13513.5	14827.4
40°	8186.5	8221.4	8396.0	8570.5	8943.4	9314.8	10159.0	11001.6	12233.0	13464.3	15038.5
42.5°	8004.0	8019.9	8161.1	8302.4	8635.6	8968.8	9805.1	10639.8	11987.0	13334.2	15201.9
45°	7756.5	7791.4	7931.0	8069.1	8369.0	8667.3	9432.2	10197.0	11622.0	13045.4	15203.5
47.5°	7572.4	7594.6	7726.3	7856.4	8135.7	8415.0	9102.1	9789.2	11209.4	12628.1	15032.1
50°	7437.5	7426.4	7548.6	7669.2	7905.6	8140.5	8753.0	9363.9	10698.5	12033.0	14603.7
52.5°	7245.5	7258.2	7356.6	7455.0	7659.7	7862.8	8411.8	8959.3	10132.0	11303.1	13908.7
55°	6988.4	7047.2	7129.7	7210.6	7389.9	7569.2	8062.7	8556.2	9565.5	10573.1	13013.7
57.5°	6736.1	6779.0	6848.8	6918.6	7059.9	7199.5	7664.4	8129.4	8968.8	9808.3	11883.9
60°	6529.9	6541.0	6585.4	6628.2	6736.1	6844.0	7228.1	7612.1	8345.2	9076.7	10757.2
62.5°	6263.3	6266.4	6296.6	6326.7	6393.4	6458.4	6759.9	7059.9	7685.1	8310.3	9636.9
65°	5845.9	5871.3	5899.9	5926.9	5971.3	6014.1	6244.2	6474.3	6942.4	7410.5	8480.1
67.5°	5423.8	5401.6	5434.9	5468.3	5474.6	5480.9	5655.5	5830.1	6214.1	6598.1	7458.2
70°	4736.7	4754.2	4751.0	4746.2	4719.3	4690.7	4812.9	4935.1	5138.2	5339.7	5961.8
72.5°	3632.3	3608.5	3548.2	3486.3	3457.7	3429.2	3572.0	3713.2	3862.4	4011.5	4460.6
75°	2220.0	2288.2	2413.6	2537.4	2585.0	2632.6	2624.6	2615.1	2602.4	2589.7	3149.9
77.5°	1504.3	1540.8	1569.4	1596.4	1666.2	1734.4	1813.8	1893.1	1891.5	1889.9	2242.2
80°	956.9	928.3	941.0	953.7	993.4	1033.0	1153.6	1272.6	1306.0	1337.7	1580.5
82.5°	599.8	604.6	620.5	634.7	590.3	545.9	639.5	731.5	810.9	888.6	1001.3
85°	388.8	441.1	433.2	425.3	372.9	320.5	403.1	485.6	523.7	560.2	603.0
87.5°	125.4	146.0	150.7	153.9	153.9	152.3	169.8	187.2	193.6	198.4	214.2
90°	0.0	0.0	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	0.0
95°	0.0	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	0.0
100°	0.0	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	0.0
105°	0.0	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	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P510525
 CATALOG NUMBER: CST-CA10-630-727-U-T1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
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



REPORT NUMBER: P510525
 CATALOG NUMBER: CST-CA10-630-727-U-T1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	13375.5	13375.5	13375.5	13375.5	13375.5	13375.5	13375.5	13375.5
2.5°	13397.7	13381.8	13366.0	13361.2	13356.4	13353.3	13350.1	13346.9
5°	13385.0	13381.8	13378.7	13366.0	13353.3	13351.7	13350.1	13354.9
7.5°	13339.0	13339.0	13339.0	13353.3	13367.5	13361.2	13353.3	13362.8
10°	13293.0	13331.1	13369.1	13380.2	13391.4	13399.3	13407.2	13415.2
12.5°	13323.1	13388.2	13451.7	13488.1	13524.6	13543.7	13561.1	13565.9
15°	13464.3	13546.9	13629.4	13678.6	13726.2	13757.9	13789.6	13797.6
17.5°	13646.8	13773.8	13899.1	13970.5	14042.0	14078.5	14113.4	14102.3
20°	13803.9	13978.5	14153.0	14305.4	14457.7	14541.8	14624.3	14633.8
22.5°	13945.2	14238.7	14532.3	14729.1	14924.2	15073.4	15222.6	15238.4
25°	14205.4	14589.4	14973.4	15287.6	15601.8	15738.3	15873.2	15952.5
27.5°	14497.4	15011.5	15525.7	15946.2	16366.7	16574.6	16780.8	16792.0
30°	14821.1	15473.3	16123.9	16688.8	17252.1	17506.0	17758.3	17891.6
32.5°	15205.1	16033.4	16860.2	17602.8	18345.5	18731.1	19116.7	19251.6
35°	15630.4	16704.7	17777.4	18800.9	19822.8	20560.7	21298.6	21654.0
37.5°	16141.3	17509.2	18877.1	20414.7	21952.4	23210.7	24467.5	24826.1
40°	16612.6	18372.4	20130.7	22266.6	24402.4	26398.7	28393.3	28782.1
42.5°	17069.6	19199.2	21328.7	24242.2	27155.6	29827.8	32500.1	33510.9
45°	17360.0	19935.5	22509.3	26351.1	30192.8	33861.6	37528.8	38377.7
47.5°	17434.6	20460.7	23486.8	28245.8	33004.7	37322.5	41638.7	42728.9
50°	17174.4	20733.7	24292.9	30573.7	36852.8	41249.9	45645.5	46540.5
52.5°	16514.3	20646.4	24778.5	32377.9	39977.3	44631.5	49285.7	50098.2
55°	15454.2	20116.4	24778.5	33863.2	42946.3	47773.4	52599.0	53833.6
57.5°	13959.4	19104.0	24248.5	34855.0	45461.4	50704.3	55947.2	57056.5
60°	12437.7	17899.6	23359.9	35402.4	47445.0	52998.9	58552.8	59847.7
62.5°	10961.9	16263.5	21563.6	34828.0	48092.4	53955.8	59817.6	61680.5
65°	9549.6	14446.6	19343.6	33426.8	47508.4	54227.1	60944.2	62613.6
67.5°	8318.2	12928.0	17537.8	31078.3	44618.8	52054.7	59489.1	61569.4
70°	6583.8	10825.4	15067.1	26914.4	38761.8	47470.3	56178.9	58746.4
72.5°	4909.7	8507.1	12102.8	21171.6	30240.4	40255.0	50267.9	53498.8
75°	3708.4	6794.9	9881.3	16734.8	23588.4	32066.9	40545.4	44869.5
77.5°	2594.5	4909.7	7223.3	12336.1	17448.9	22142.8	26836.7	29140.7
80°	1821.7	3105.4	4387.6	6847.2	9305.2	11387.2	13467.5	13302.5
82.5°	1112.4	1651.9	2189.8	2970.6	3751.3	4254.3	4757.3	4735.1
85°	645.8	785.5	923.5	1144.1	1364.7	1613.8	1863.0	1656.7
87.5°	228.5	228.5	228.5	261.8	295.2	406.2	517.3	545.9
90°	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
95°	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
100°	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
105°	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
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P510525
 CATALOG NUMBER: CST-CA10-630-727-U-T1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	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
117.5°	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
122.5°	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
127.5°	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
132.5°	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
137.5°	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
142.5°	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
147.5°	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
152.5°	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
157.5°	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
162.5°	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
167.5°	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
172.5°	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
177.5°	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

(END OF REPORT)