

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: P510585

Luminaire Tested: **CST-CA10-760-727-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510585
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-CA10-760-727-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: 93736 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

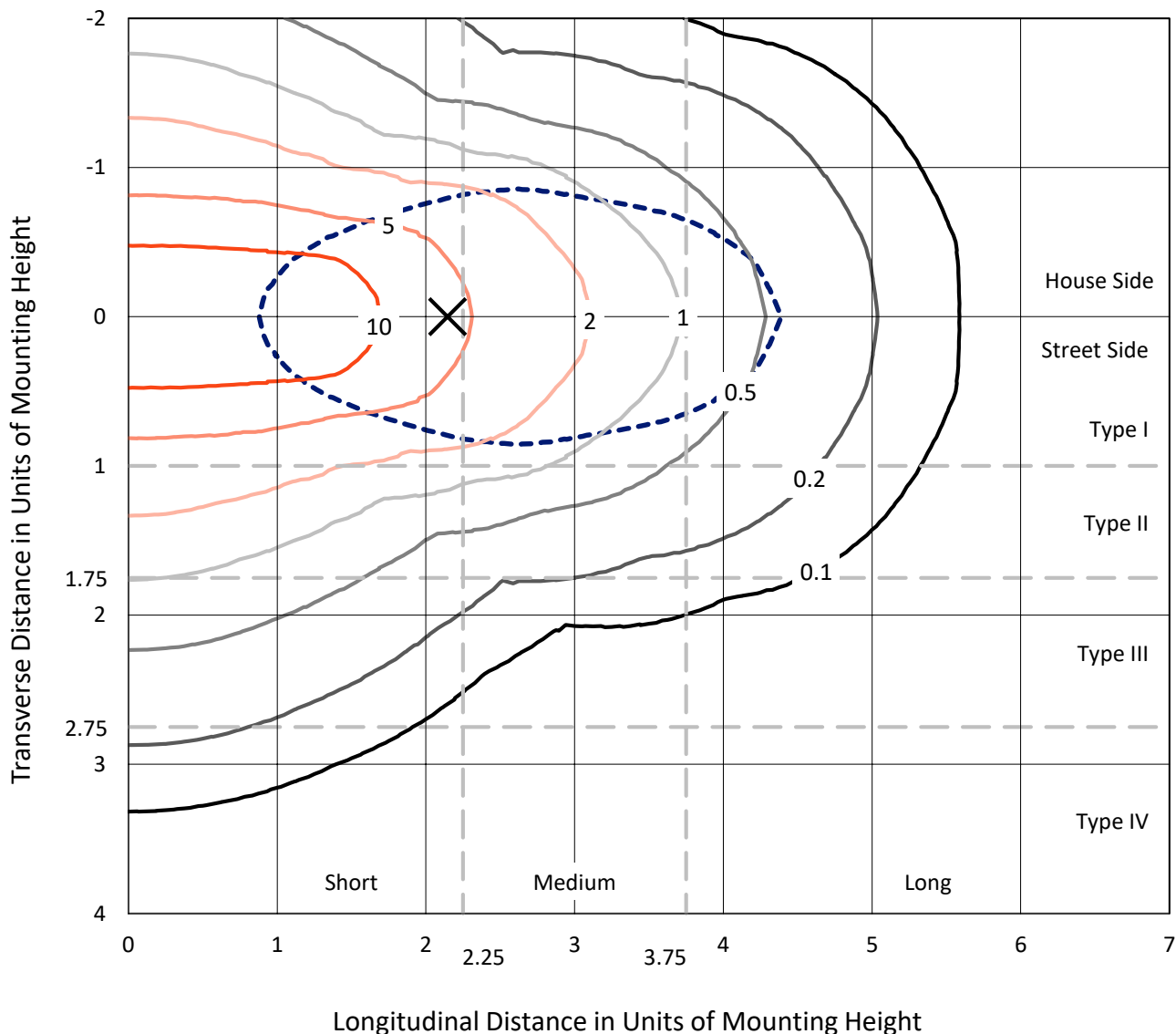
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510585
 CATALOG NUMBER: CST-CA10-760-727-U-T1

Iso-Footcandle Lines of Horizontal Illumination

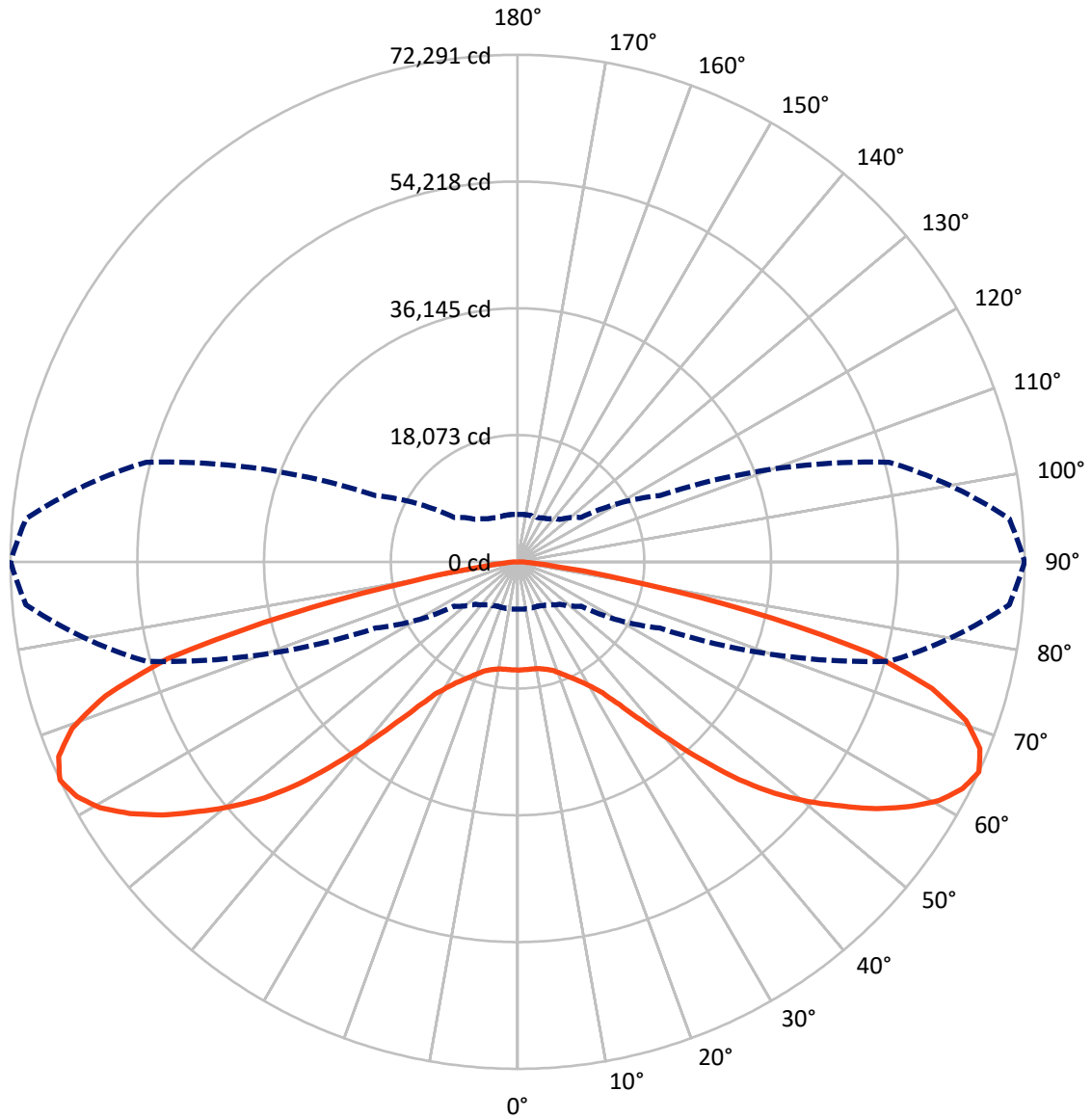
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.4 fc
 Type I - Short - N/A

REPORT NUMBER: P510585
CATALOG NUMBER: CST-CA10-760-727-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P510585
 CATALOG NUMBER: CST-CA10-760-727-U-T1

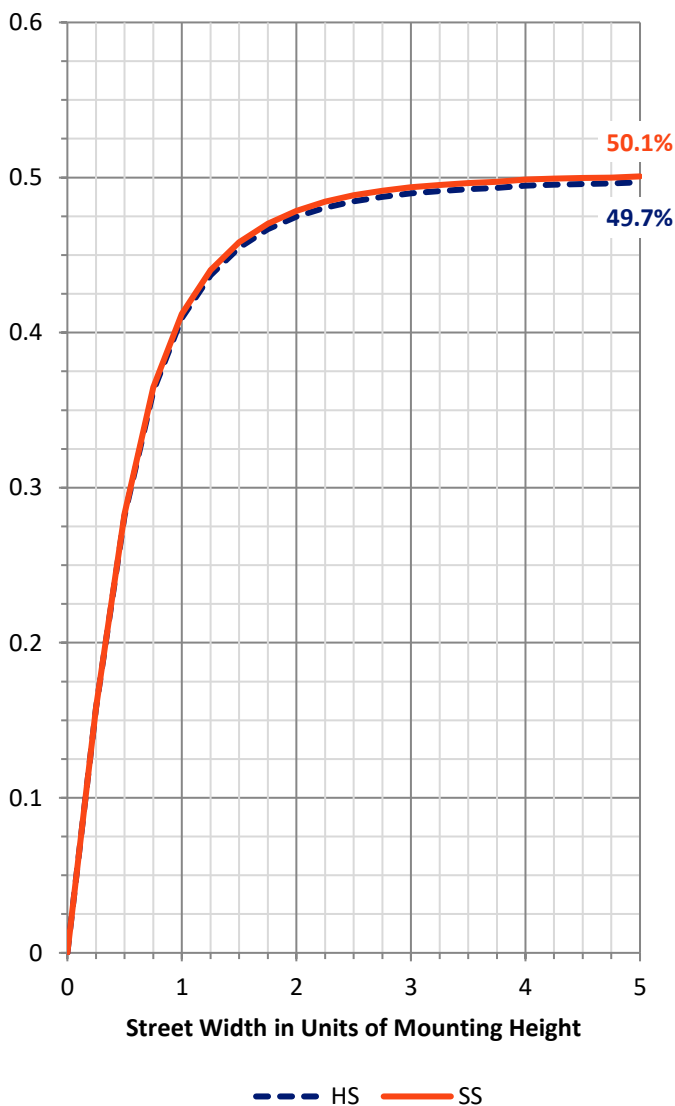
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	46868.0	0.0	46868.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	46868.0	0.0	46868.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	93736.0	0.0	93736.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1465.5	1.6
10°-20°	4324.6	4.6
20°-30°	7123.7	7.6
30°-40°	10437.1	11.1
40°-50°	15432.4	16.5
50°-60°	20243.3	21.6
60°-70°	21119.5	22.5
70°-80°	12142.5	13.0
80°-90°	1447.5	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°	93736.0	100.0
0°-180°	93736.0	100.0

Coefficient of Utilization

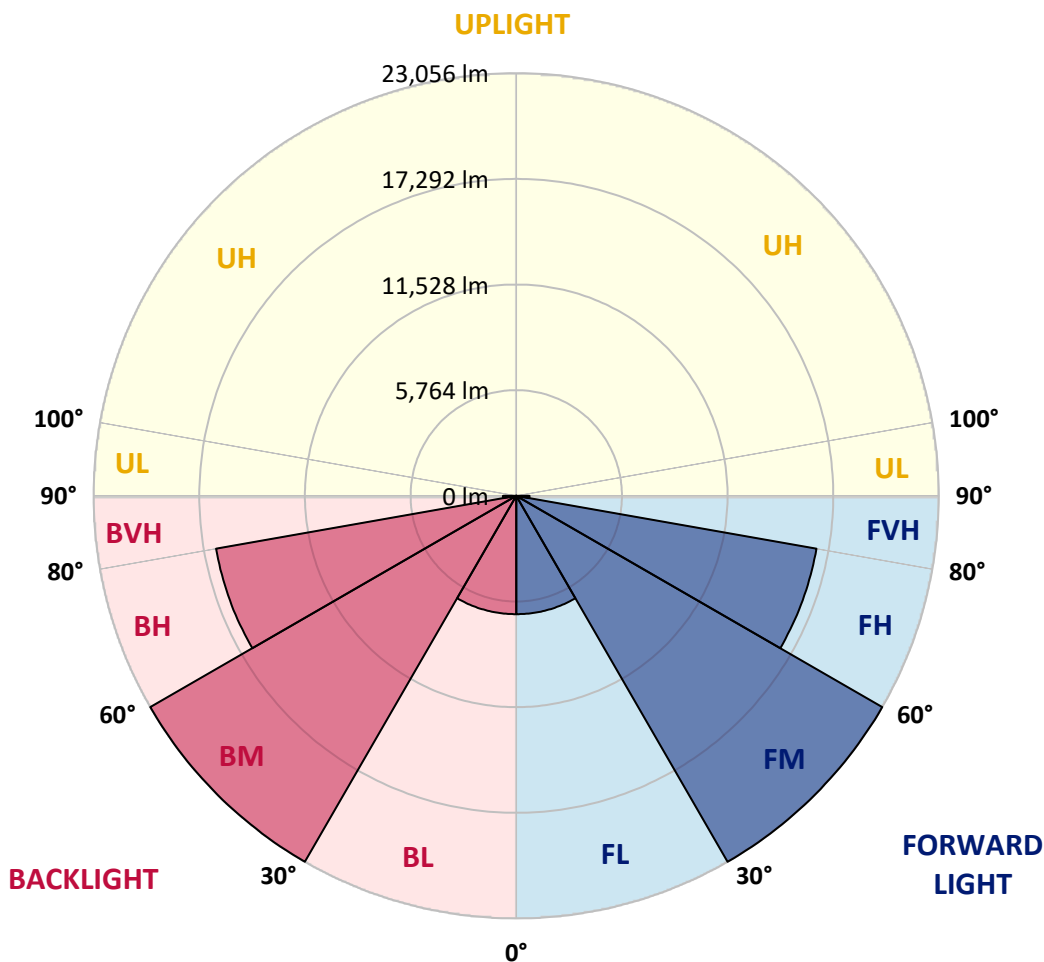


REPORT NUMBER: P510585
 CATALOG NUMBER: CST-CA10-760-727-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6456.9	6.9			
FM (30°-60°)	23056.4	24.6			
FH (60°-80°)	16631.0	17.7			G5
FVH (80°-90°)	723.8	0.8			G4/750
BL (0°-30°)	6456.9	6.9	B5		
BM (30°-60°)	23056.4	24.6	B5		
BH (60°-80°)	16631.0	17.7	B5		G5
BVH (80°-90°)	723.8	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: P510585
 CATALOG NUMBER: CST-CA10-760-727-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	15442.7	15442.7	15442.7	15442.7	15442.7	15442.7	15442.7	15442.7	15442.7	15442.7	15442.7
2.5°	15439.1	15428.1	15424.4	15418.9	15428.1	15435.4	15453.7	15470.2	15466.5	15462.9	15466.5
5°	15353.0	15358.5	15360.3	15362.1	15369.4	15374.9	15400.6	15426.2	15422.6	15418.9	15437.2
7.5°	15232.0	15232.0	15228.4	15224.7	15239.4	15252.2	15277.8	15303.5	15323.6	15342.0	15371.3
10°	15056.2	15048.8	15047.0	15045.2	15061.7	15076.3	15123.9	15171.6	15211.9	15250.4	15299.8
12.5°	14841.8	14840.0	14843.6	14847.3	14882.1	14916.9	14997.5	15078.1	15158.8	15239.4	15310.8
15°	14587.1	14565.2	14583.5	14600.0	14656.8	14711.7	14867.4	15023.2	15145.9	15266.8	15406.1
17.5°	14198.7	14176.8	14204.2	14229.9	14343.5	14457.1	14676.9	14894.9	15125.8	15356.6	15556.3
20°	13610.6	13610.6	13680.3	13749.9	13942.2	14134.6	14436.9	14737.4	15048.8	15360.3	15649.8
22.5°	12984.1	12965.7	13114.1	13262.5	13493.4	13722.4	14103.5	14484.5	14896.8	15307.2	15704.7
25°	12276.9	12308.0	12494.9	12679.9	13004.2	13326.7	13795.7	14262.9	14781.3	15299.8	15851.3
27.5°	11679.6	11685.1	11910.4	12135.8	12542.5	12947.4	13517.2	14087.0	14719.1	15351.1	16045.5
30°	11062.2	11163.0	11401.1	11637.5	12091.8	12546.2	13235.1	13922.1	14671.4	15420.7	16267.2
32.5°	10587.7	10611.5	10880.8	11148.3	11622.8	12097.3	12897.9	13698.6	14598.1	15497.7	16527.3
35°	10140.6	10179.1	10430.1	10681.1	11175.8	11668.6	12546.2	13421.9	14497.4	15571.0	16809.5
37.5°	9743.1	9790.7	10028.9	10267.1	10743.4	11219.7	12150.5	13081.2	14341.6	15602.1	17119.1
40°	9451.8	9492.1	9693.6	9895.1	10325.7	10754.4	11729.1	12701.9	14123.6	15545.3	17362.8
42.5°	9241.1	9259.4	9422.5	9585.5	9970.3	10355.0	11320.5	12284.2	13839.6	15395.1	17551.5
45°	8955.3	8995.6	9156.8	9316.2	9662.5	10006.9	10890.0	11773.0	13418.3	15061.7	17553.3
47.5°	8742.8	8768.4	8920.5	9070.7	9393.2	9715.6	10508.9	11302.2	12941.9	14579.8	17355.4
50°	8587.0	8574.2	8715.3	8854.5	9127.5	9398.6	10105.8	10811.2	12352.0	13892.8	16860.8
52.5°	8365.3	8380.0	8493.6	8607.2	8843.5	9078.0	9711.9	10344.0	11697.9	13050.0	16058.3
55°	8068.5	8136.3	8231.6	8325.0	8532.1	8739.1	9308.9	9878.7	11043.9	12207.2	15025.0
57.5°	7777.2	7826.7	7907.3	7987.9	8151.0	8312.2	8849.0	9385.8	10355.0	11324.2	13720.6
60°	7539.1	7551.9	7603.2	7652.7	7777.2	7901.8	8345.2	8788.6	9635.0	10479.6	12419.8
62.5°	7231.3	7234.9	7269.8	7304.6	7381.5	7456.6	7804.7	8151.0	8872.8	9594.7	11126.3
65°	6749.4	6778.8	6811.7	6842.9	6894.2	6943.6	7209.3	7474.9	8015.4	8555.9	9790.7
67.5°	6262.1	6236.5	6274.9	6313.4	6320.7	6328.1	6529.6	6731.1	7174.5	7617.9	8610.8
70°	5468.8	5489.0	5485.3	5479.8	5448.7	5415.7	5556.7	5697.8	5932.3	6165.0	6883.2
72.5°	4193.7	4166.2	4096.6	4025.1	3992.1	3959.2	4124.0	4287.1	4459.3	4631.5	5150.0
75°	2563.1	2641.9	2786.6	2929.5	2984.5	3039.4	3030.3	3019.3	3004.6	2990.0	3636.7
77.5°	1736.8	1779.0	1811.9	1843.1	1923.7	2002.5	2094.1	2185.7	2183.9	2182.0	2588.8
80°	1104.8	1071.8	1086.4	1101.1	1146.9	1192.7	1331.9	1469.3	1507.8	1544.5	1824.8
82.5°	692.5	698.0	716.3	732.8	681.5	630.2	738.3	844.6	936.2	1026.0	1156.1
85°	448.9	509.3	500.2	491.0	430.5	370.1	465.4	560.6	604.6	646.7	696.2
87.5°	144.7	168.6	174.0	177.7	177.7	175.9	196.0	216.2	223.5	229.0	247.3
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: P510585
 CATALOG NUMBER: CST-CA10-760-727-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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	15442.7	15442.7	15442.7	15442.7	15442.7	15442.7	15442.7	15442.7
2.5°	15468.4	15450.1	15431.7	15426.2	15420.7	15417.1	15413.4	15409.7
5°	15453.7	15450.1	15446.4	15431.7	15417.1	15415.2	15413.4	15418.9
7.5°	15400.6	15400.6	15400.6	15417.1	15433.6	15426.2	15417.1	15428.1
10°	15347.5	15391.4	15435.4	15448.2	15461.0	15470.2	15479.4	15488.5
12.5°	15382.3	15457.4	15530.7	15572.8	15614.9	15636.9	15657.1	15662.6
15°	15545.3	15640.6	15735.9	15792.7	15847.6	15884.3	15920.9	15930.1
17.5°	15756.0	15902.6	16047.3	16129.8	16212.2	16254.3	16294.7	16281.8
20°	15937.4	16138.9	16340.5	16516.3	16692.2	16789.3	16884.6	16895.6
22.5°	16100.4	16439.4	16778.3	17005.5	17230.9	17403.1	17575.3	17593.6
25°	16400.9	16844.3	17287.6	17650.4	18013.2	18170.7	18326.4	18418.0
27.5°	16738.0	17331.6	17925.2	18410.7	18896.2	19136.2	19374.4	19387.2
30°	17111.8	17864.8	18615.9	19268.1	19918.5	20211.7	20503.0	20656.9
32.5°	17555.1	18511.5	19466.0	20323.4	21180.8	21626.0	22071.2	22227.0
35°	18046.1	19286.5	20525.0	21706.7	22886.5	23738.5	24590.4	25000.8
37.5°	18636.1	20215.3	21794.6	23569.9	25345.2	26798.1	28249.1	28663.1
40°	19180.2	21212.0	23242.0	25708.0	28174.0	30478.7	32781.7	33230.5
42.5°	19707.8	22166.5	24625.2	27988.9	31352.6	34437.9	37523.1	38690.2
45°	20043.1	23016.6	25988.3	30423.8	34859.3	39095.1	43329.0	44309.2
47.5°	20129.2	23623.0	27116.8	32611.3	38105.7	43090.9	48074.2	49332.8
50°	19828.8	23938.2	28047.5	35299.0	42548.6	47625.3	52700.2	53733.5
52.5°	19066.6	23837.4	28608.2	37382.1	46156.0	51529.5	56903.0	57841.1
55°	17842.8	23225.5	28608.2	39096.9	49583.8	55157.0	60728.4	62153.8
57.5°	16116.9	22056.6	27996.2	40242.0	52487.7	58540.9	64594.2	65874.8
60°	14360.0	20666.0	26970.3	40874.0	54777.8	61190.1	67602.5	69097.5
62.5°	12656.1	18777.1	24896.3	40210.8	55525.3	62294.9	69062.6	71213.5
65°	11025.5	16679.4	22333.2	38593.1	54851.1	62608.2	70363.4	72290.8
67.5°	9603.8	14926.1	20248.3	35881.6	51514.8	60100.0	68683.4	71085.3
70°	7601.4	12498.6	17395.7	31074.2	44752.6	54807.1	64861.7	67826.0
72.5°	5668.5	9821.9	13973.4	24443.8	34914.2	46476.6	58037.1	61767.2
75°	4281.6	7845.0	11408.5	19321.3	27234.1	37023.0	46811.9	51804.3
77.5°	2995.5	5668.5	8339.7	14242.7	20145.7	25565.1	30984.4	33644.6
80°	2103.2	3585.4	5065.7	7905.5	10743.4	13147.1	15549.0	15358.5
82.5°	1284.3	1907.2	2528.3	3429.7	4331.1	4911.8	5492.6	5467.0
85°	745.7	906.9	1066.3	1320.9	1575.6	1863.2	2150.9	1912.7
87.5°	263.8	263.8	263.8	302.3	340.8	469.0	597.3	630.2
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



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 CATALOG NUMBER: CST-CA10-760-727-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)