

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: P510555

Luminaire Tested: **CST-CA10-630-750-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510555
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-CA10-630-750-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 97635 lumens
Efficiency: N/A
Efficacy: 154.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

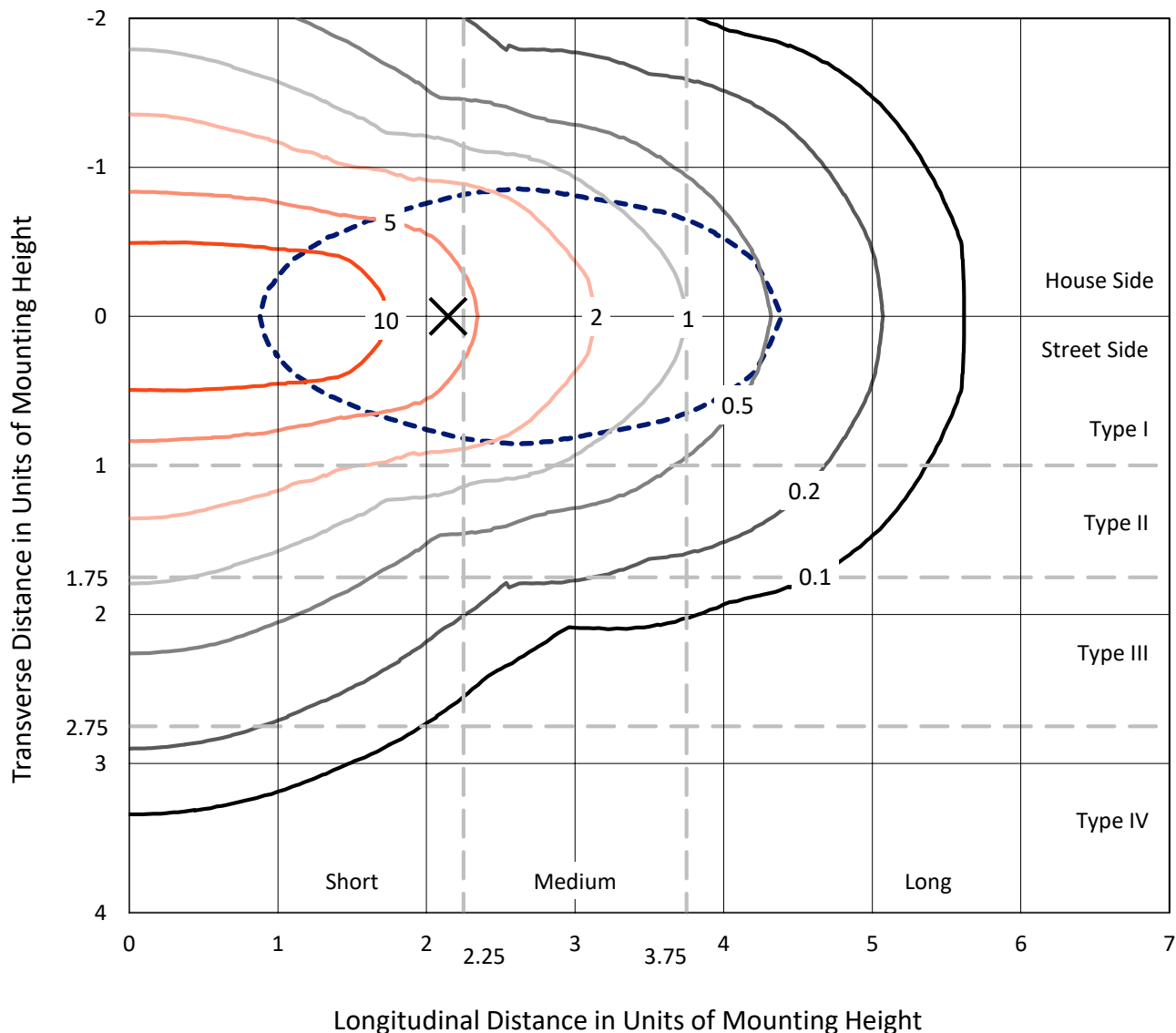
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

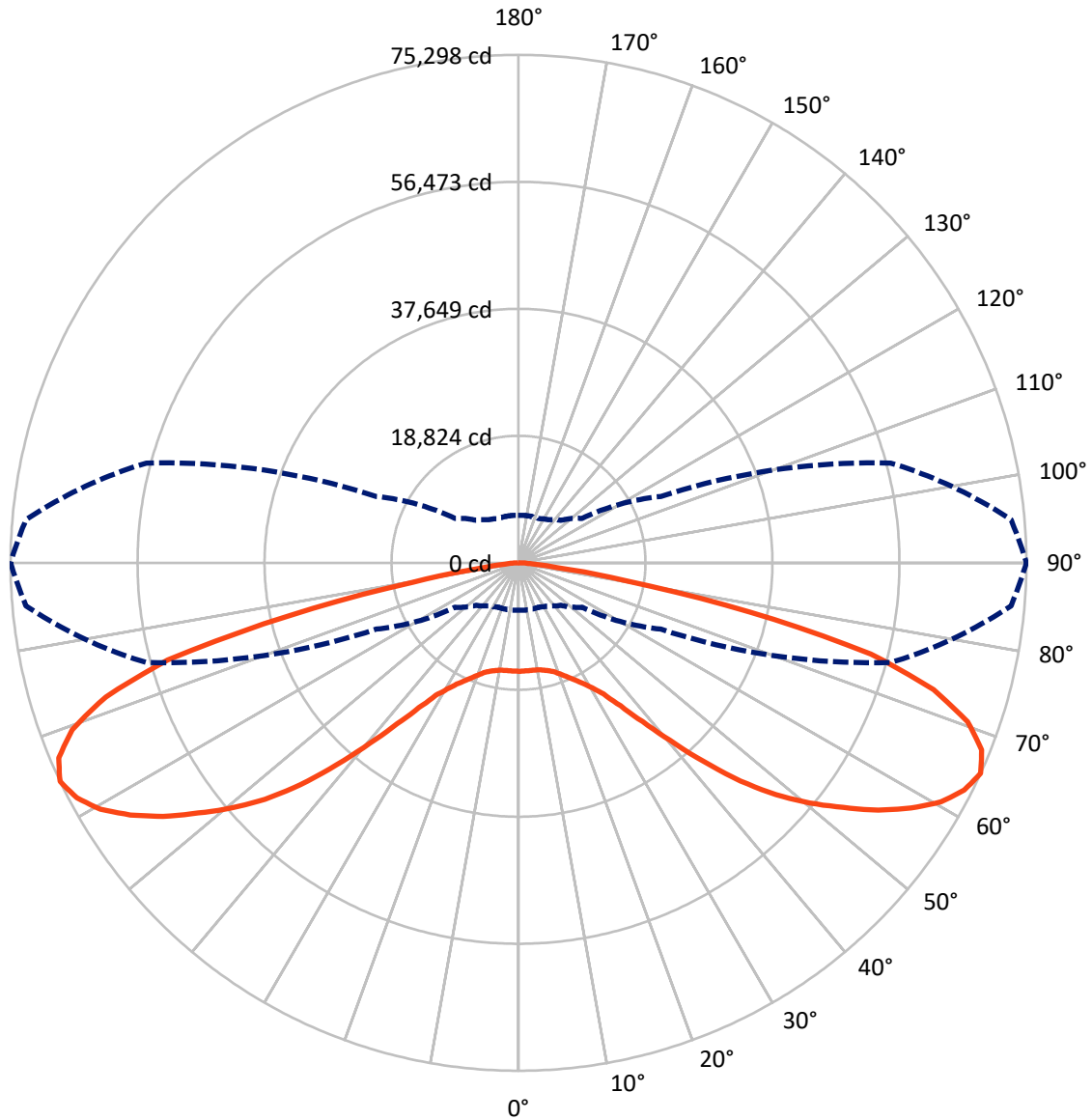
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 18.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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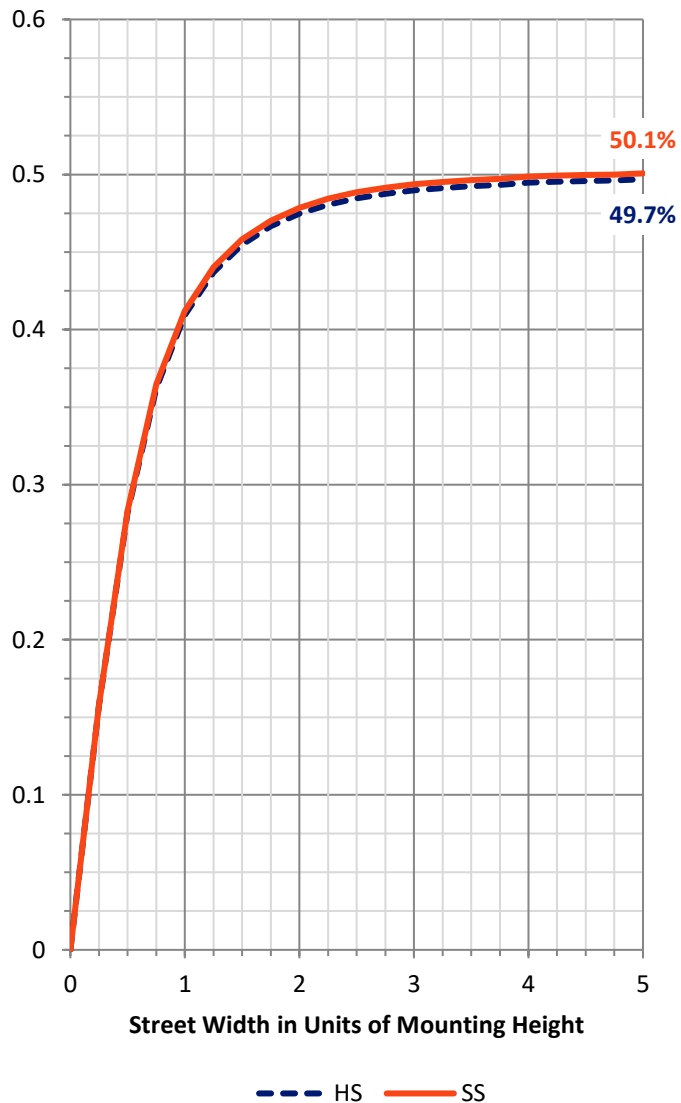
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	48817.5	0.0	48817.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	48817.5	0.0	48817.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	97635.0	0.0	97635.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1526.5	1.6
10°-20°	4504.5	4.6
20°-30°	7420.0	7.6
30°-40°	10871.2	11.1
40°-50°	16074.3	16.5
50°-60°	21085.3	21.6
60°-70°	21998.0	22.5
70°-80°	12647.6	13.0
80°-90°	1507.7	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°	97635.0	100.0
0°-180°	97635.0	100.0

Coefficient of Utilization

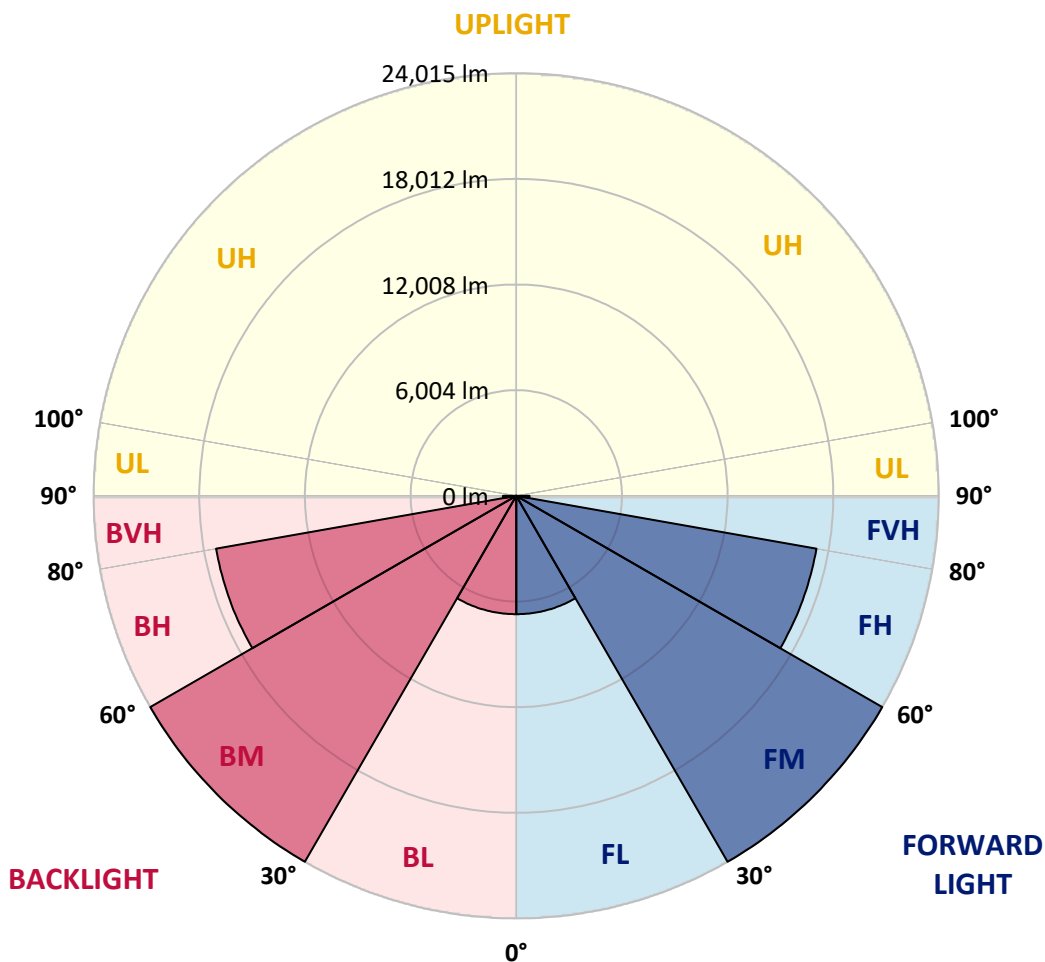


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6725.5	6.9			
FM (30°-60°)	24015.4	24.6			
FH (60°-80°)	17322.8	17.7			G5
FVH (80°-90°)	753.9	0.8			G5
BL (0°-30°)	6725.5	6.9	B5		
BM (30°-60°)	24015.4	24.6	B5		
BH (60°-80°)	17322.8	17.7	B5		G5
BVH (80°-90°)	753.9	0.8			G5
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	16085.1	16085.1	16085.1	16085.1	16085.1	16085.1	16085.1	16085.1	16085.1	16085.1	16085.1
2.5°	16081.3	16069.8	16066.0	16060.3	16069.8	16077.4	16096.5	16113.7	16109.9	16106.1	16109.9
5°	15991.6	15997.3	15999.2	16001.1	16008.7	16014.5	16041.2	16067.9	16064.1	16060.3	16079.4
7.5°	15865.6	15865.6	15861.8	15858.0	15873.3	15886.6	15913.3	15940.0	15961.0	15980.1	16010.7
10°	15682.4	15674.8	15672.9	15671.0	15688.1	15703.4	15753.0	15802.6	15844.6	15884.7	15936.2
12.5°	15459.2	15457.2	15461.1	15464.9	15501.1	15537.4	15621.4	15705.3	15789.3	15873.3	15947.7
15°	15193.9	15171.0	15190.1	15207.3	15266.4	15323.7	15485.9	15648.1	15775.9	15901.9	16046.9
17.5°	14789.3	14766.4	14795.1	14821.8	14940.1	15058.4	15287.4	15514.5	15754.9	15995.4	16203.4
20°	14176.8	14176.8	14249.3	14321.8	14522.2	14722.5	15037.4	15350.4	15674.8	15999.2	16300.7
22.5°	13524.1	13505.1	13659.6	13814.2	14054.6	14293.2	14690.1	15087.0	15516.4	15943.9	16358.0
25°	12787.5	12820.0	13014.6	13207.4	13545.1	13881.0	14369.5	14856.1	15396.2	15936.2	16510.6
27.5°	12165.4	12171.1	12405.9	12640.6	13064.2	13486.0	14079.5	14672.9	15331.3	15989.7	16712.9
30°	11522.3	11627.3	11875.4	12121.5	12594.8	13068.1	13785.6	14501.2	15281.7	16062.2	16943.8
32.5°	11028.1	11052.9	11333.4	11612.0	12106.3	12600.5	13434.4	14268.4	15205.3	16142.3	17214.8
35°	10562.5	10602.5	10864.0	11125.4	11640.6	12154.0	13068.1	13980.2	15100.4	16218.7	17508.7
37.5°	10148.3	10198.0	10446.0	10694.1	11190.3	11686.4	12655.9	13625.3	14938.2	16251.1	17831.2
40°	9844.9	9886.9	10096.8	10306.7	10755.2	11201.7	12216.9	13230.3	14711.1	16191.9	18085.0
42.5°	9625.5	9644.6	9814.4	9984.2	10385.0	10785.7	11791.4	12795.2	14415.3	16035.5	18281.5
45°	9327.8	9369.8	9537.7	9703.7	10064.4	10423.1	11342.9	12262.7	13976.4	15688.1	18283.4
47.5°	9106.4	9133.1	9291.5	9448.0	9783.9	10119.7	10946.0	11772.3	13480.2	15186.3	18077.3
50°	8944.2	8930.9	9077.8	9222.8	9507.2	9789.6	10526.2	11260.9	12865.8	14470.7	17562.1
52.5°	8713.3	8728.6	8846.9	8965.2	9211.4	9455.6	10115.9	10774.3	12184.5	13592.8	16726.3
55°	8404.2	8474.8	8574.0	8671.3	8887.0	9102.6	9696.1	10289.6	11503.2	12715.0	15650.0
57.5°	8100.7	8152.3	8236.2	8320.2	8490.0	8658.0	9217.1	9776.2	10785.7	11795.2	14291.3
60°	7852.7	7866.0	7919.5	7971.0	8100.7	8230.5	8692.3	9154.1	10035.8	10915.5	12936.4
62.5°	7532.1	7535.9	7572.1	7608.4	7688.5	7766.8	8129.4	8490.0	9241.9	9993.8	11589.1
65°	7030.2	7060.7	7095.1	7127.5	7180.9	7232.5	7509.2	7785.9	8348.8	8911.8	10198.0
67.5°	6522.6	6495.9	6535.9	6576.0	6583.6	6591.3	6801.2	7011.1	7472.9	7934.7	8969.0
70°	5696.3	5717.3	5713.5	5707.7	5675.3	5640.9	5787.9	5934.8	6179.1	6421.4	7169.5
72.5°	4368.1	4339.5	4267.0	4192.5	4158.2	4123.8	4295.6	4465.4	4644.8	4824.2	5364.2
75°	2669.7	2751.8	2902.5	3051.4	3108.6	3165.9	3156.3	3144.9	3129.6	3114.3	3788.0
77.5°	1809.1	1853.0	1887.3	1919.8	2003.7	2085.8	2181.2	2276.6	2274.7	2272.8	2696.4
80°	1150.7	1116.4	1131.6	1146.9	1194.6	1242.3	1387.3	1530.5	1570.5	1608.7	1900.7
82.5°	721.3	727.1	746.1	763.3	709.9	656.5	769.0	879.7	975.1	1068.6	1204.1
85°	467.5	530.5	521.0	511.4	448.5	385.5	484.7	583.9	629.7	673.6	725.2
87.5°	150.8	175.6	181.3	185.1	185.1	183.2	204.2	225.2	232.8	238.5	257.6
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



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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°	16085.1	16085.1	16085.1	16085.1	16085.1	16085.1	16085.1	16085.1
2.5°	16111.8	16092.7	16073.6	16067.9	16062.2	16058.4	16054.5	16050.7
5°	16096.5	16092.7	16088.9	16073.6	16058.4	16056.5	16054.5	16060.3
7.5°	16041.2	16041.2	16041.2	16058.4	16075.5	16067.9	16058.4	16069.8
10°	15985.8	16031.6	16077.4	16090.8	16104.2	16113.7	16123.2	16132.8
12.5°	16022.1	16100.3	16176.7	16220.6	16264.5	16287.4	16308.3	16314.1
15°	16191.9	16291.2	16390.4	16449.6	16506.8	16545.0	16583.1	16592.7
17.5°	16411.4	16564.1	16714.8	16800.7	16886.6	16930.5	16972.4	16959.1
20°	16600.3	16810.2	17020.1	17203.3	17386.5	17487.7	17586.9	17598.4
22.5°	16770.2	17123.2	17476.2	17712.9	17947.6	18127.0	18306.3	18325.4
25°	17083.1	17544.9	18006.7	18384.6	18762.4	18926.5	19088.7	19184.2
27.5°	17434.2	18052.5	18670.8	19176.5	19682.2	19932.2	20180.3	20193.7
30°	17823.5	18607.9	19390.3	20069.6	20747.1	21052.4	21355.8	21516.1
32.5°	18285.3	19281.5	20275.7	21168.8	22061.9	22525.6	22989.3	23151.5
35°	18796.8	20088.7	21378.7	22609.6	23838.5	24725.9	25613.2	26040.7
37.5°	19411.2	21056.2	22701.2	24550.3	26399.4	27912.7	29424.1	29855.4
40°	19978.0	22094.3	24208.7	26777.3	29345.9	31746.5	34145.2	34612.8
42.5°	20527.6	23088.5	25649.5	29153.1	32656.8	35870.3	39083.9	40299.5
45°	20876.8	23974.0	27069.3	31689.3	36309.3	40721.3	45131.3	46152.3
47.5°	20966.5	24605.6	28244.8	33967.8	39690.8	44883.3	50073.8	51384.8
50°	20653.6	24933.9	29214.2	36767.3	44318.4	49606.3	54892.3	55968.6
52.5°	19859.7	24828.9	29798.1	38937.0	48075.8	53672.9	59269.9	60247.0
55°	18585.0	24191.5	29798.1	40723.2	51646.3	57451.3	63254.5	64739.1
57.5°	16787.3	22974.0	29160.8	41915.9	54670.9	60976.0	67281.0	68614.9
60°	14957.3	21525.6	28092.1	42574.2	57056.3	63735.4	70414.4	71971.6
62.5°	13182.5	19558.2	25931.9	41883.4	57834.9	64886.1	71935.3	74175.7
65°	11484.2	17373.2	23262.2	40198.4	57132.6	65212.4	73290.2	75297.8
67.5°	10003.3	15546.9	21090.6	37374.1	53657.6	62599.9	71540.3	74042.1
70°	7917.5	13018.4	18119.3	32366.7	46614.1	57086.8	67559.6	70647.2
72.5°	5904.3	10230.4	14554.6	25460.6	36366.5	48409.8	60451.2	64336.5
75°	4459.7	8171.3	11883.0	20125.0	28366.9	38563.0	48759.0	53959.1
77.5°	3120.1	5904.3	8686.6	14835.1	20983.7	26628.4	32273.2	35044.1
80°	2190.7	3734.5	5276.5	8234.3	11190.3	13694.0	16195.8	15997.3
82.5°	1337.7	1986.5	2633.5	3572.3	4511.2	5116.2	5721.1	5694.4
85°	776.7	944.6	1110.6	1375.9	1641.1	1940.7	2240.3	1992.3
87.5°	274.8	274.8	274.8	314.9	354.9	488.5	622.1	656.5
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: P510555
 CATALOG NUMBER: CST-CA10-630-750-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)