

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: P522159

Luminaire Tested: **CST-CA10-630-760-U-T5R-HSS-HM-EX120**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522159
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-CA10-630-760-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: 70853 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U2 - G5

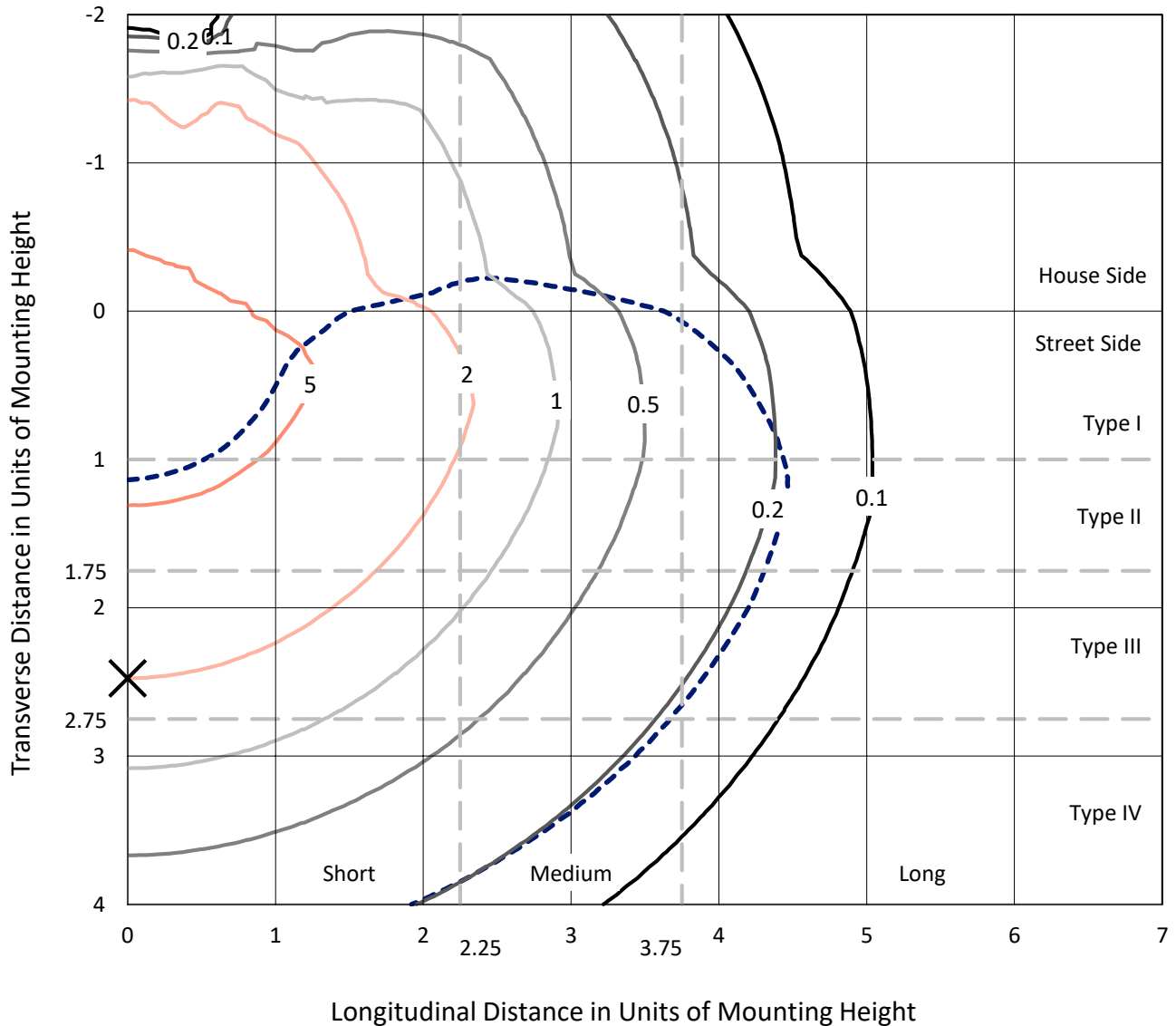
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522159
 CATALOG NUMBER: CST-CA10-630-760-U-T5R-HSS-HM-EX120

Iso-Footcandle Lines of Horizontal Illumination

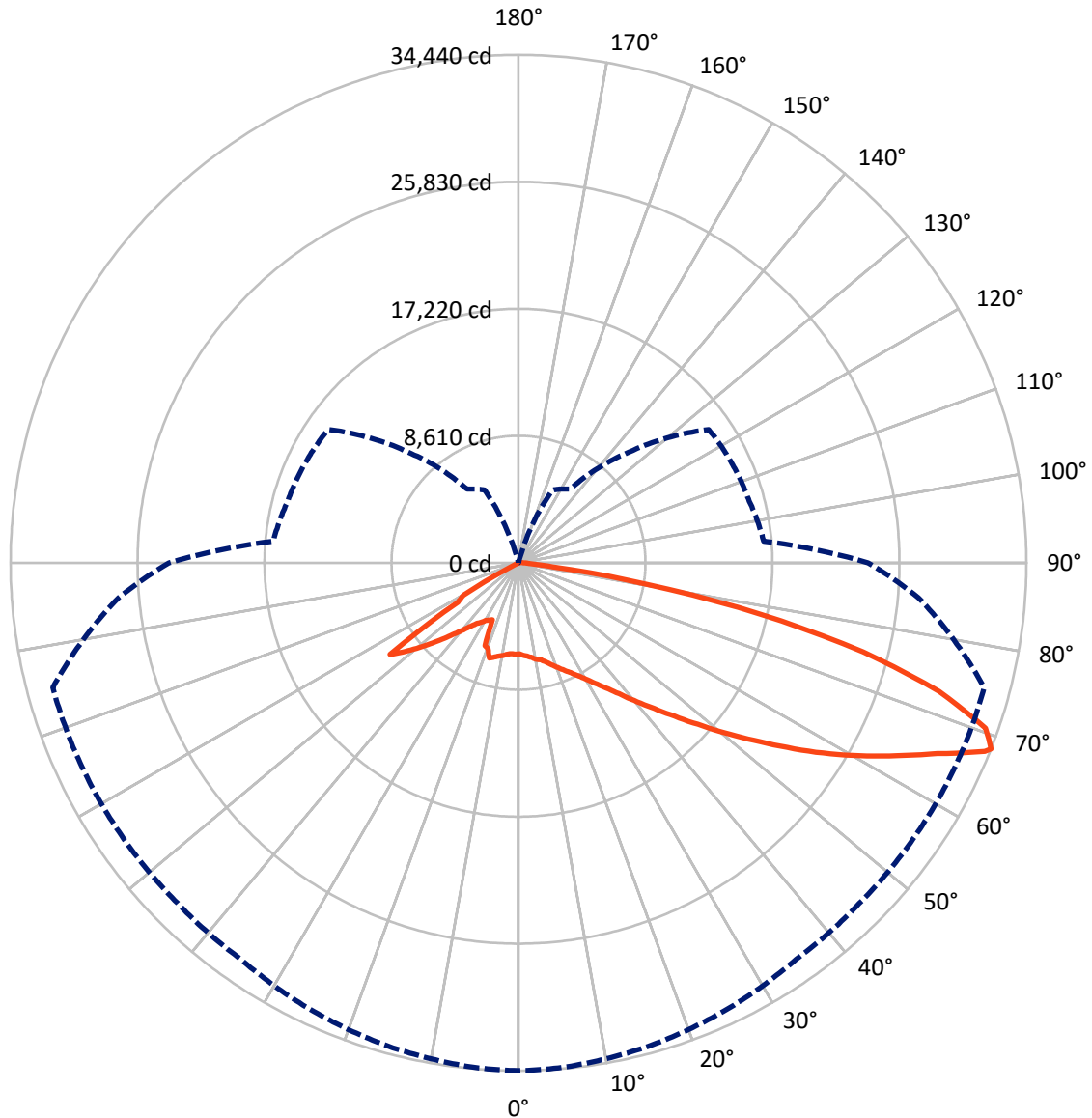
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

REPORT NUMBER: P522159
CATALOG NUMBER: CST-CA10-630-760-U-T5R-HSS-HM-EX120

Luminous Intensity Polar Plot



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

REPORT NUMBER: P522159
 CATALOG NUMBER: CST-CA10-630-760-U-T5R-HSS-HM-EX120

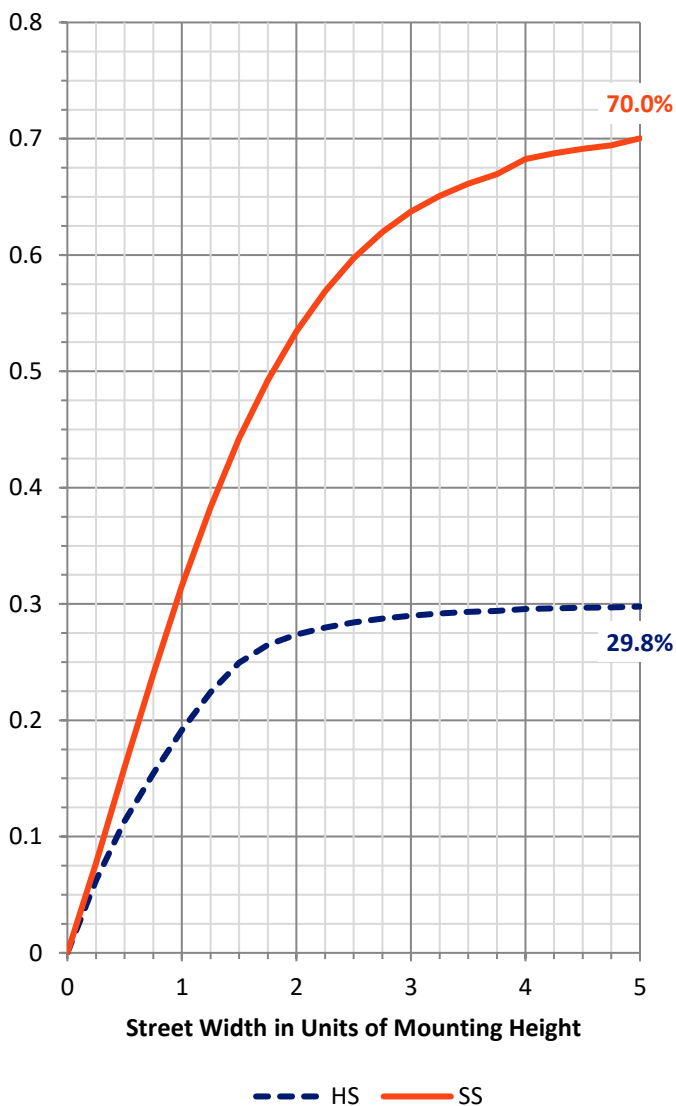
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21120.5	3.3	21123.7
	% Fixture	29.8	0.0	29.8
Street Side	Lumens	49700.2	29.0	49729.2
	% Fixture	70.1	0.0	70.2
Total	Lumens	70820.7	32.3	70853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.5	0.8
10°-20°	1908.1	2.7
20°-30°	3268.3	4.6
30°-40°	5302.0	7.5
40°-50°	8941.6	12.6
50°-60°	14575.0	20.6
60°-70°	19547.5	27.6
70°-80°	15183.3	21.4
80°-90°	1495.3	2.1
90°-100°	28.4	0.0
100°-110°	1.6	0.0
110°-120°	0.4	0.0
120°-130°	0.3	0.0
130°-140°	0.4	0.0
140°-150°	0.4	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-90°	70820.7	100.0
0°-180°	70853.0	100.0

Coefficient of Utilization

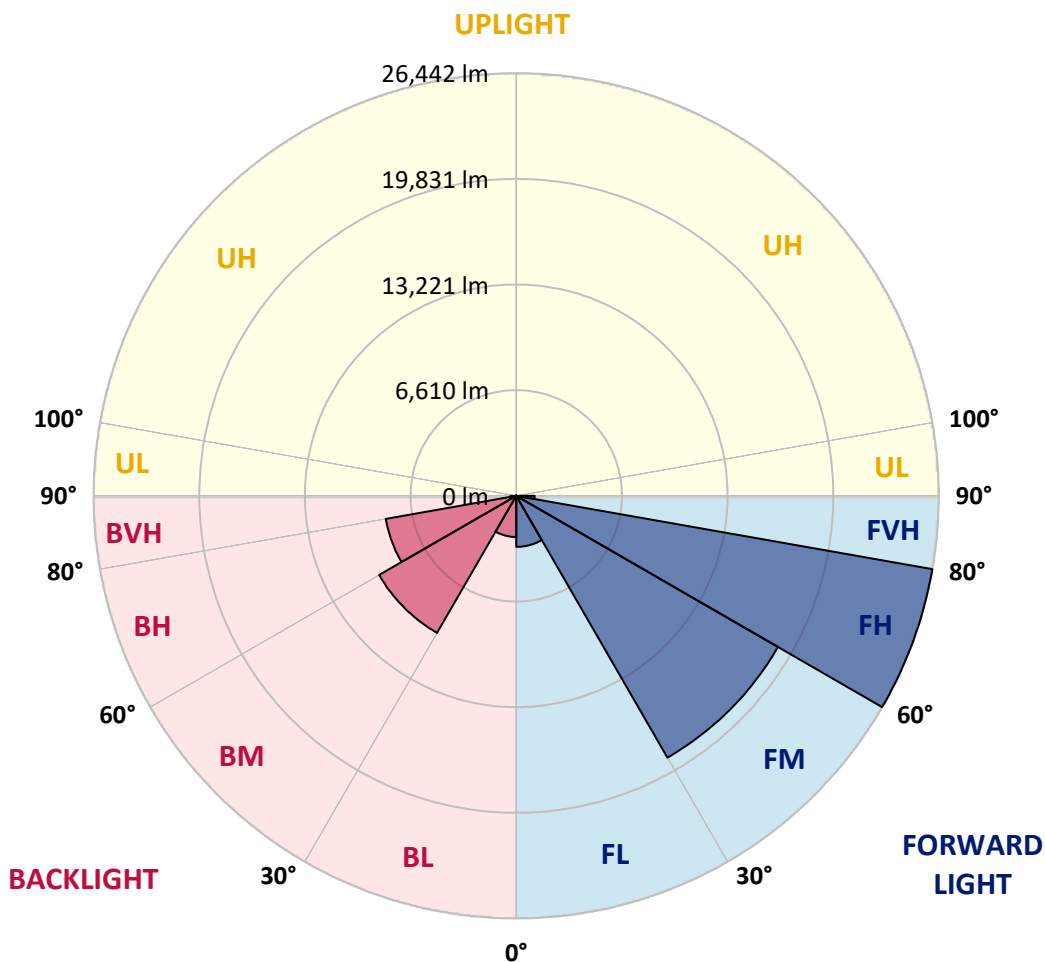


REPORT NUMBER: P522159
 CATALOG NUMBER: CST-CA10-630-760-U-T5R-HSS-HM-EX120

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3195.9	4.5			
FM (30°-60°)	18913.1	26.7			
FH (60°-80°)	26441.5	37.3			G5
FVH (80°-90°)	1149.7	1.6			G5
BL (0°-30°)	2580.1	3.6	B4/5000		
BM (30°-60°)	9905.5	14.0	B5		
BH (60°-80°)	8289.3	11.7	B5		G5
BVH (80°-90°)	345.6	0.5			G3/500
UL (90°-100°)	28.4	0.0		U2/50	
UH (100°-180°)	3.9	0.0		U1/10	

BUG Rating: B5-U2-G5
 Type IV Short





REPORT NUMBER: P522159

CATALOG NUMBER: CST-CA10-630-760-U-T5R-HSS-HM-EX120

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1
2.5°	6279.6	6262.1	6259.1	6294.3	6182.9	6238.6	6188.8	6229.8	6203.4	6224.0	6226.9
5°	6364.6	6332.4	6311.9	6352.9	6282.6	6308.9	6253.3	6270.8	6197.6	6238.6	6244.5
7.5°	6487.7	6434.9	6429.1	6440.8	6379.3	6399.8	6308.9	6329.4	6276.7	6253.3	6273.8
10°	6654.7	6604.9	6566.8	6593.2	6511.1	6522.8	6426.1	6429.1	6391.0	6347.0	6382.2
12.5°	6748.5	6754.3	6736.8	6757.3	6689.9	6651.8	6584.4	6560.9	6522.8	6470.1	6452.5
15°	6982.9	6971.2	6936.0	6968.3	6959.5	6924.3	6842.3	6789.5	6707.5	6678.2	6648.9
17.5°	7270.1	7232.0	7202.7	7243.7	7287.7	7214.4	7135.3	7062.0	6953.6	6895.0	6859.8
20°	7571.9	7545.5	7516.2	7580.7	7595.3	7539.7	7481.1	7372.6	7246.6	7170.4	7097.2
22.5°	7908.9	7856.1	7864.9	7949.9	7923.5	7897.2	7821.0	7733.1	7580.7	7484.0	7273.0
25°	8257.6	8228.3	8269.3	8307.4	8286.9	8231.2	8193.1	8128.7	7958.7	7841.5	7533.8
27.5°	8691.3	8644.4	8697.1	8711.8	8694.2	8679.5	8626.8	8577.0	8392.4	8260.5	7876.6
30°	9201.1	9145.5	9230.4	9209.9	9192.4	9204.1	9171.8	9063.4	8899.3	8720.6	8336.7
32.5°	9807.7	9734.5	9831.2	9787.2	9746.2	9828.2	9752.0	9649.5	9456.1	9248.0	8872.9
35°	10511.0	10513.9	10563.7	10490.5	10475.8	10563.7	10513.9	10387.9	10209.2	9992.3	9459.0
37.5°	11363.7	11340.3	11466.3	11431.1	11378.4	11495.6	11510.2	11352.0	11029.6	10815.7	10185.7
40°	12401.0	12395.2	12436.2	12442.1	12427.4	12483.1	12509.5	12298.5	12090.4	11768.1	9611.4
42.5°	13508.7	13532.1	13605.4	13552.6	13623.0	13696.2	13705.0	13529.2	13230.3	11290.4	10209.2
45°	14839.0	14912.3	14962.1	14950.4	14982.6	15088.1	15096.9	15003.1	14710.1	12231.1	11293.4
47.5°	16365.7	16436.1	16450.7	16544.5	16515.2	16664.6	16644.1	16647.0	16333.5	13540.9	12474.3
50°	18121.0	18153.2	18273.3	18326.1	18252.8	18455.0	18402.3	18466.7	18080.0	15041.2	13743.1
52.5°	19984.6	20040.3	20090.1	20289.4	20195.6	20371.4	20301.1	20450.6	20002.2	16567.9	15152.6
55°	22103.3	22112.0	22197.0	22399.2	22276.1	22487.1	22384.6	22440.2	22082.7	18255.8	16620.7
57.5°	24347.9	24318.6	24350.8	24512.0	24400.6	24558.8	24517.8	24570.6	24236.5	20031.5	17693.2
60°	26569.0	26525.1	26572.0	26680.4	26528.0	26800.5	26654.0	26703.8	26343.4	21845.4	19222.8
62.5°	28801.9	28769.7	28716.9	28825.4	28602.7	28743.3	28804.8	28722.8	28406.3	23486.4	20553.1
65°	31198.9	31166.7	30973.3	31040.7	30642.1	30574.7	30598.2	30624.6	30413.6	25112.7	22012.4
67.5°	34111.6	34064.7	33701.4	33244.3	32669.9	32543.9	32555.6	32626.0	32655.3	27204.9	23720.8
68°	34439.8	34354.8	33950.5	33420.1	32819.4	32672.8	32658.2	32672.8	32687.5	27222.5	23703.2
70°	33601.7	33569.5	33261.8	32620.1	32004.7	31653.1	31348.3	31336.6	31196.0	25830.6	22393.4
72.5°	29818.7	29777.7	29411.4	28957.2	28576.3	28025.4	27629.8	27653.2	27421.7	22830.0	19600.8
75°	24131.0	24128.1	23688.5	23307.6	23313.5	23272.4	23140.6	23372.1	23131.8	19363.4	16717.4
77.5°	16817.0	16875.6	16846.3	16623.6	16937.1	17370.8	17842.6	18288.0	18150.3	15296.2	13329.9
80°	8785.0	8949.1	9529.3	9555.7	9775.5	10197.4	10519.8	10818.7	10839.2	8679.5	7700.8
82.5°	2335.4	2385.3	2581.6	2525.9	2508.3	2593.3	2663.6	2672.4	2678.3	2262.2	2112.7
85°	726.7	747.2	723.8	691.6	641.7	586.1	571.4	465.9	369.2	304.8	266.7
87.5°	515.7	550.9	498.2	468.8	416.1	395.6	354.6	278.4	216.8	152.4	102.6
90°	266.7	272.5	243.2	208.1	193.4	181.7	155.3	111.4	55.7	29.3	26.4
92.5°	134.8	137.7	120.1	102.6	87.9	76.2	58.6	32.2	17.6	8.8	2.9
95°	52.7	55.7	49.8	44.0	35.2	26.4	23.4	17.6	11.7	5.9	2.9
97.5°	17.6	17.6	17.6	14.7	14.7	14.7	14.7	11.7	8.8	5.9	2.9
100°	0.0	0.0	0.0	2.9	5.9	8.8	8.8	8.8	5.9	2.9	2.9
102.5°	0.0	0.0	0.0	0.0	0.0	2.9	5.9	5.9	5.9	2.9	2.9
105°	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9	2.9
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9



REPORT NUMBER: P522159
 CATALOG NUMBER: CST-CA10-630-760-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	2.9	2.9	2.9
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9
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	2.9
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9
165°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9
170°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9
175°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9
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: P522159

CATALOG NUMBER: CST-CA10-630-760-U-T5R-HSS-HM-EX120

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1
2.5°	6212.2	6194.7	6203.4	6130.2	6147.8	6100.9	6200.5	6174.1	6162.4	6203.4
5°	6226.9	6162.4	6215.2	6165.4	6174.1	6106.7	6188.8	6156.6	6153.6	6177.1
7.5°	6232.7	6200.5	6250.3	6168.3	6194.7	6168.3	6229.8	6197.6	6226.9	6247.4
10°	6314.8	6297.2	6291.4	6262.1	6282.6	6224.0	6300.1	6300.1	6314.8	6370.5
12.5°	6434.9	6411.5	6396.8	6344.1	6364.6	6347.0	6408.6	6420.3	6446.7	6470.1
15°	6599.0	6558.0	6543.4	6496.5	6511.1	6508.2	6552.2	6555.1	6613.7	6610.8
17.5°	6810.0	6751.4	6769.0	6733.8	6736.8	6713.3	6689.9	6689.9	6742.6	6754.3
20°	7062.0	6728.0	6288.4	6042.3	5998.3	6030.6	6156.6	6364.6	6103.8	6177.1
22.5°	6607.8	6306.0	6285.5	6229.8	6194.7	5409.3	5207.1	5142.7	5479.7	6059.9
25°	6666.4	6537.5	6499.4	6429.1	5391.8	5383.0	5324.4	5227.7	4272.4	4251.9
27.5°	6977.0	6851.0	6789.5	5632.0	5608.6	5605.7	5517.8	4547.8	4328.1	4357.4
30°	7340.4	7193.9	6092.1	5916.3	5895.8	5848.9	5344.9	4492.1	4489.2	4492.1
32.5°	7759.4	7273.0	6267.9	6259.1	6270.8	6127.3	4735.4	4717.8	4714.9	4744.2
35°	8333.8	6748.5	6707.5	6751.4	6689.9	5298.0	5019.6	5010.8	5013.7	4999.1
37.5°	7952.8	7275.9	7267.1	7267.1	7123.6	5421.1	5365.4	5406.4	5400.5	5380.0
40°	8114.0	7914.7	7862.0	7844.4	6021.8	5848.9	5816.6	5869.4	5878.2	5892.8
42.5°	8896.4	8714.7	8688.3	8480.3	6552.2	6496.5	6396.8	6452.5	6446.7	6464.2
45°	9857.5	9734.5	9620.2	7352.1	7267.1	7196.8	7094.3	7158.7	7176.3	7164.6
47.5°	10976.9	10842.1	10015.8	8084.7	8081.8	8026.1	7911.8	7964.6	7955.8	7955.8
50°	12102.1	11955.6	9098.6	9016.5	8987.2	8899.3	8805.6	8814.3	8817.3	8846.6
52.5°	13359.2	10678.0	10071.4	9907.3	9930.8	9872.2	9781.3	7404.9	9737.4	9763.8
55°	12486.0	11176.2	11141.0	10924.2	10979.8	10903.6	10845.0	7305.2	9684.6	10701.5
57.5°	12345.4	12251.6	12222.3	11999.6	12069.9	11346.1	11888.2	7993.9	6698.7	4893.6
60°	13420.8	13321.1	13303.6	13107.2	13101.4	9016.5	10806.9	5482.6	4284.1	4313.4
62.5°	14464.0	14302.8	14346.7	14115.3	9951.3	5494.3	4843.8	123.1	196.3	208.1
65°	15627.3	15357.7	15401.7	15187.7	10264.8	5793.2	5236.4	64.5	55.7	52.7
67.5°	16746.7	16274.9	16049.3	15823.6	10660.4	6100.9	5456.2	17.6	0.0	0.0
68°	16691.0	16192.8	15961.3	15747.4	10619.4	6092.1	5444.5	17.6	0.0	0.0
70°	15750.4	15302.0	15082.3	14918.2	10138.8	5884.0	5224.7	17.6	0.0	0.0
72.5°	13769.5	13520.4	13379.7	13236.2	9007.7	5262.8	4685.5	17.6	0.0	0.0
75°	11700.7	11630.4	11542.5	11226.0	7507.4	4307.5	3850.4	17.6	0.0	0.0
77.5°	9271.5	9268.5	9054.6	8682.5	5652.5	3161.8	2839.5	14.7	0.0	0.0
80°	5013.7	5465.0	5300.9	5110.4	3205.7	1720.1	1638.0	11.7	0.0	0.0
82.5°	1409.5	1333.3	1280.5	1198.5	674.0	375.1	366.3	11.7	0.0	0.0
85°	196.3	216.8	240.3	272.5	155.3	99.6	87.9	5.9	0.0	0.0
87.5°	111.4	126.0	155.3	161.2	58.6	46.9	14.7	0.0	0.0	0.0
90°	23.4	26.4	29.3	29.3	11.7	11.7	0.0	0.0	0.0	0.0
92.5°	0.0	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P522159
 CATALOG NUMBER: CST-CA10-630-760-U-T5R-HSS-HM-EX120

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	2.9	2.9	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)