

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: P522176

Luminaire Tested: **CST-CA10-760-750-U-T5R-HSS-HM-EX90**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-894-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-760-750-U-T5R-HSS-HM-EX90
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: 91858.1 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U2 - G5

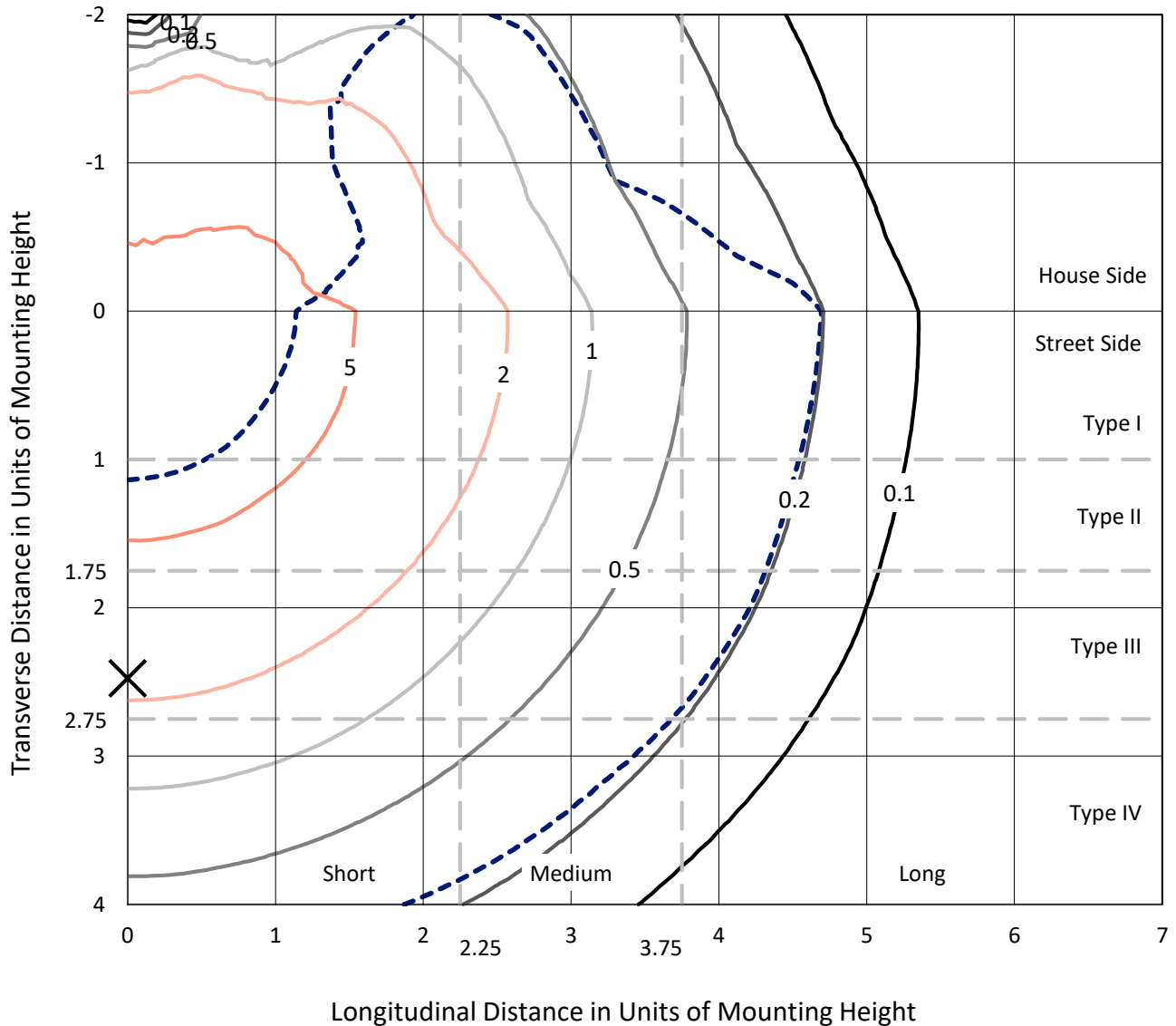
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522176
 CATALOG NUMBER: CST-CA10-760-750-U-T5R-HSS-HM-EX90

Iso-Footcandle Lines of Horizontal Illumination

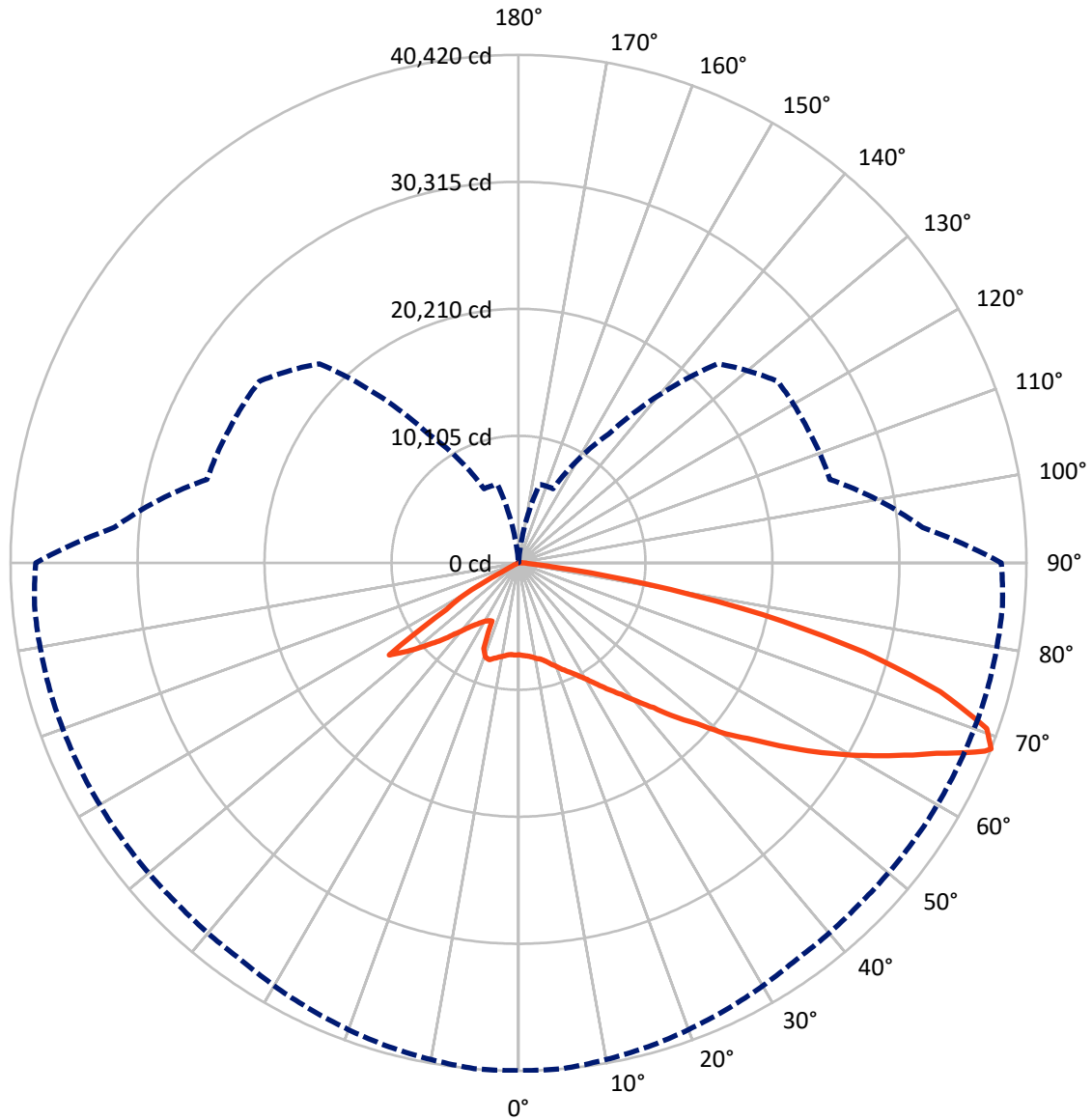
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P522176
CATALOG NUMBER: CST-CA10-760-750-U-T5R-HSS-HM-EX90

Luminous Intensity Polar Plot



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

REPORT NUMBER: P522176
 CATALOG NUMBER: CST-CA10-760-750-U-T5R-HSS-HM-EX90

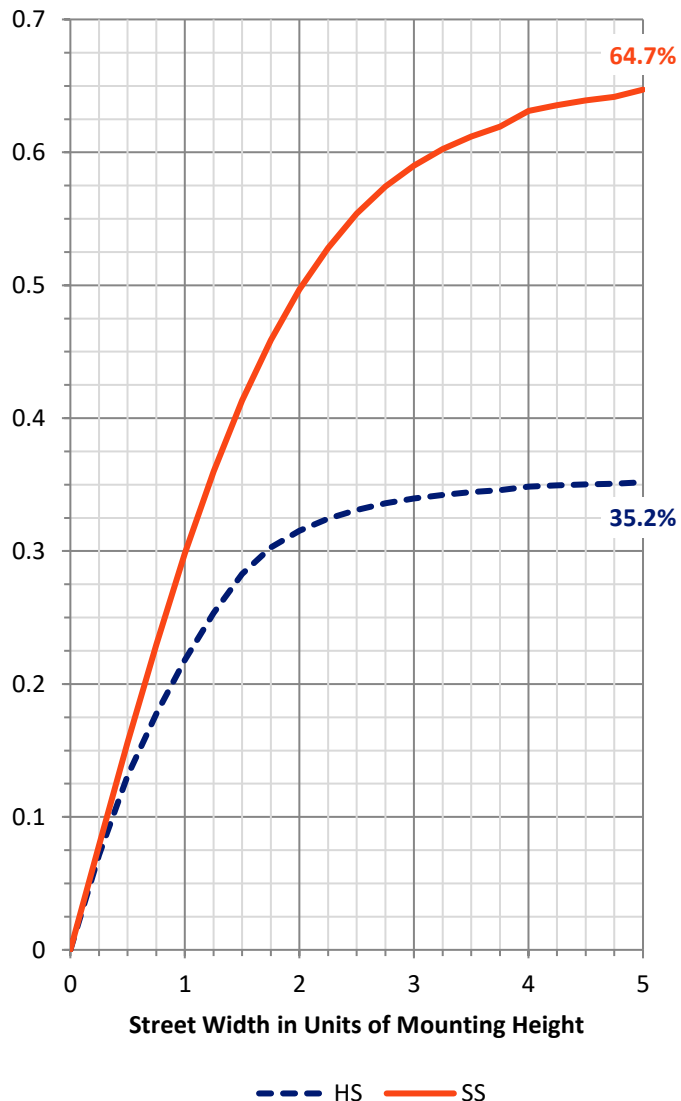
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32327.7	5.6	32333.4
	% Fixture	35.2	0.0	35.2
Street Side	Lumens	59500.5	24.3	59524.7
	% Fixture	64.8	0.0	64.8
Total	Lumens	91828.2	29.9	91858.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.2	0.8
10°-20°	2265.9	2.5
20°-30°	4045.0	4.4
30°-40°	6580.3	7.2
40°-50°	11237.3	12.2
50°-60°	18750.0	20.4
60°-70°	26085.0	28.4
70°-80°	20219.9	22.0
80°-90°	1937.6	2.1
90°-100°	23.4	0.0
100°-110°	2.0	0.0
110°-120°	1.0	0.0
120°-130°	0.7	0.0
130°-140°	0.7	0.0
140°-150°	0.8	0.0
150°-160°	0.6	0.0
160°-170°	0.4	0.0
170°-180°	0.2	0.0
0°-90°	91828.2	100.0
0°-180°	91858.1	100.0

Coefficient of Utilization

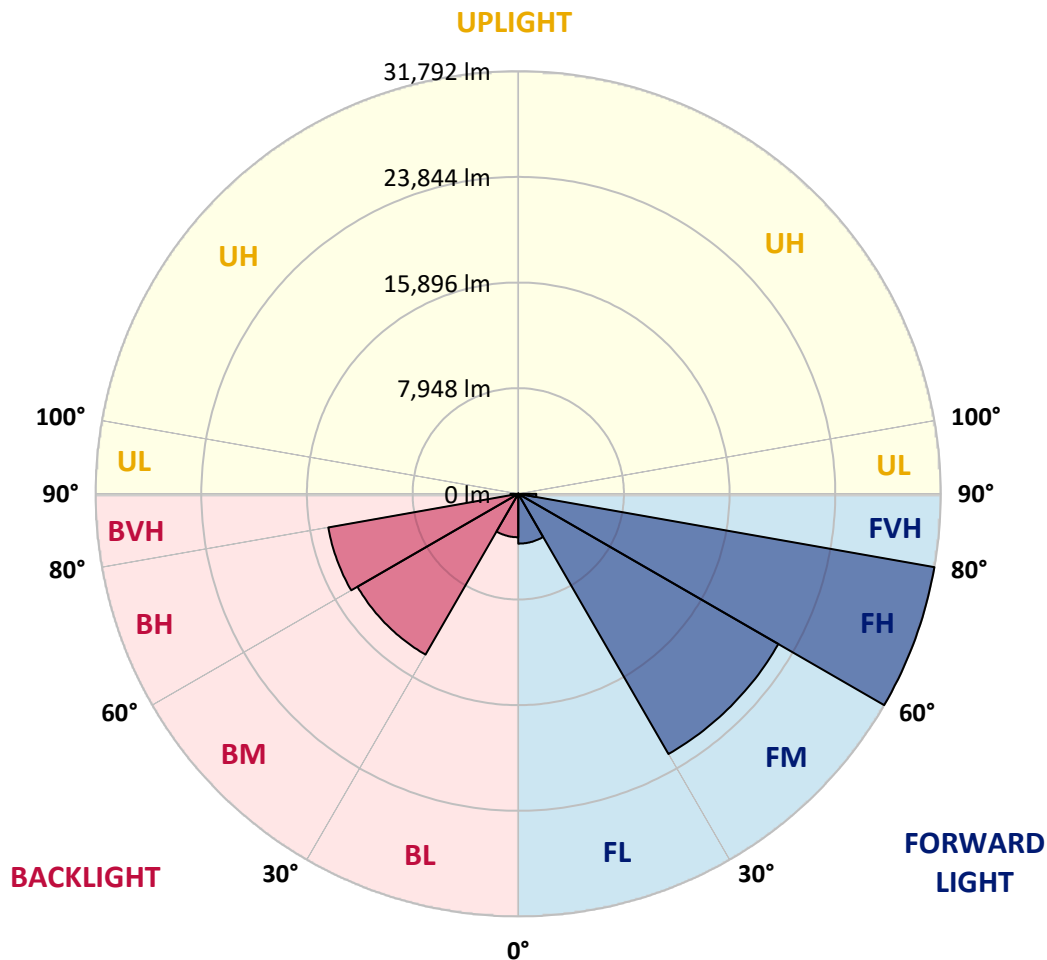


REPORT NUMBER: P522176
 CATALOG NUMBER: CST-CA10-760-750-U-T5R-HSS-HM-EX90

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3749.1	4.1			
FM (30°-60°)	22603.5	24.6			
FH (60°-80°)	31792.4	34.6			G5
FVH (80°-90°)	1355.5	1.5			G5
BL (0°-30°)	3269.0	3.6	B4/5000		
BM (30°-60°)	13964.1	15.2	B5		
BH (60°-80°)	14512.6	15.8	B5		G5
BVH (80°-90°)	582.1	0.6			G4/750
UL (90°-100°)	23.4	0.0		U2/50	
UH (100°-180°)	6.4	0.0		U1/10	

BUG Rating: B5-U2-G5
 Type IV Short





REPORT NUMBER: P522176

CATALOG NUMBER: CST-CA10-760-750-U-T5R-HSS-HM-EX90

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7310.3	7310.3	7310.3	7310.3	7310.3	7310.3	7310.3	7310.3	7310.3	7310.3	7310.3
2.5°	7393.3	7382.9	7376.0	7421.0	7293.1	7344.9	7310.3	7355.3	7344.9	7365.7	7369.1
5°	7445.2	7427.9	7403.7	7452.1	7376.0	7410.6	7372.6	7393.3	7327.6	7382.9	7389.8
7.5°	7562.7	7514.3	7510.8	7524.6	7472.8	7497.0	7431.3	7455.5	7421.0	7400.2	7421.0
10°	7738.9	7697.5	7652.5	7680.2	7593.8	7624.9	7555.8	7576.5	7559.2	7514.3	7555.8
12.5°	7859.9	7873.7	7842.6	7863.4	7787.3	7759.7	7735.5	7732.0	7721.7	7656.0	7645.6
15°	8129.5	8136.4	8081.1	8095.0	8077.7	8063.9	8029.3	8001.6	7946.3	7904.9	7877.2
17.5°	8482.1	8444.1	8392.2	8406.0	8454.4	8392.2	8371.5	8319.6	8240.1	8171.0	8157.2
20°	8851.9	8827.7	8779.3	8807.0	8803.5	8762.1	8772.4	8686.0	8571.9	8513.2	8468.3
22.5°	9263.2	9228.7	9194.1	9246.0	9204.5	9176.8	9166.5	9107.7	8966.0	8900.3	8889.9
25°	9674.5	9657.3	9681.5	9664.2	9605.4	9584.7	9598.5	9577.8	9411.9	9332.4	9284.0
27.5°	10189.6	10148.1	10186.1	10165.4	10103.1	10106.6	10110.1	10113.5	9926.9	9823.2	9754.0
30°	10777.1	10763.3	10811.7	10746.0	10687.3	10725.3	10756.4	10687.3	10524.8	10372.7	10348.6
32.5°	11541.0	11454.6	11509.9	11427.0	11337.1	11427.0	11482.3	11344.0	11212.7	11019.1	11053.7
35°	12387.8	12360.2	12360.2	12253.0	12204.7	12346.4	12401.7	12266.9	12062.9	11893.6	11852.1
37.5°	13286.5	13314.2	13400.6	13355.6	13310.7	13397.1	13521.6	13341.8	13079.1	12899.4	12851.0
40°	14479.0	14548.1	14606.9	14548.1	14496.3	14551.6	14693.3	14458.2	14275.1	14178.3	14074.6
42.5°	15761.3	15878.8	15840.8	15847.7	15892.7	15972.2	16113.9	15899.6	15688.7	15685.3	15533.2
45°	17496.4	17496.4	17417.0	17493.0	17486.1	17683.1	17745.3	17627.8	17451.5	17399.7	17268.3
47.5°	19117.5	19286.9	19255.8	19366.4	19280.0	19445.9	19656.7	19556.5	19352.6	19169.4	19141.7
50°	21378.0	21336.5	21295.1	21461.0	21447.1	21561.2	21754.8	21692.6	21409.1	21201.7	21163.7
52.5°	23365.5	23583.2	23531.4	23780.2	23642.0	23804.4	24036.0	24025.6	23680.0	23476.1	23417.3
55°	25874.8	26020.0	26009.6	26265.4	26075.3	26289.6	26483.2	26503.9	26127.2	25836.8	25926.7
57.5°	28487.9	28608.9	28539.7	28750.6	28563.9	28857.7	28975.3	28899.2	28678.0	28311.6	28446.4
60°	31104.4	31208.1	31287.6	31304.9	31197.7	31370.6	31481.2	31546.8	31197.7	30779.5	30942.0
62.5°	33762.4	33879.9	33810.8	33838.5	33541.2	33776.2	33914.5	33931.8	33530.8	33161.0	33275.1
65°	36562.1	36724.6	36475.7	36309.8	35943.4	35940.0	36123.2	36154.3	35870.8	35608.1	35563.2
67.5°	40028.9	40101.5	39569.2	39012.7	38394.0	38259.2	38387.1	38459.7	38622.2	38615.2	38411.3
68°	40419.5	40405.7	39866.5	39202.8	38539.2	38383.7	38445.9	38539.2	38646.3	38667.1	38421.7
70°	39531.2	39361.8	39054.2	38217.7	37561.0	37153.2	36935.4	37108.2	36817.9	36821.4	36361.6
72.5°	35113.9	35093.1	34526.3	34111.5	33527.4	32849.9	32538.8	32535.4	32563.0	32362.6	31889.0
75°	28443.0	28470.6	27810.4	27523.6	27343.8	27215.9	27281.6	27485.5	27506.3	27502.8	27336.9
77.5°	19836.5	19950.5	19774.2	19307.6	19808.8	20237.4	21063.5	21485.2	21350.4	21754.8	22010.5
80°	10396.9	10625.1	10632.0	10960.3	11364.7	11755.3	12467.3	13106.8	12636.7	12429.3	12215.0
82.5°	2734.0	2817.0	2941.4	2751.3	2810.1	2868.8	3421.9	3370.0	3110.8	3249.0	3456.4
85°	781.2	805.3	770.8	698.2	639.4	587.6	601.4	508.1	442.4	439.0	425.1
87.5°	549.6	591.0	521.9	449.3	404.4	376.8	362.9	307.6	248.9	217.8	172.8
90°	255.8	252.3	217.8	169.4	148.6	141.7	141.7	110.6	62.2	38.0	34.6
92.5°	107.1	110.6	89.9	72.6	62.2	48.4	38.0	24.2	13.8	6.9	3.5
95°	38.0	41.5	34.6	27.7	24.2	20.7	17.3	13.8	6.9	3.5	3.5
97.5°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	6.9	6.9	3.5	3.5
100°	0.0	0.0	0.0	3.5	6.9	6.9	6.9	6.9	3.5	3.5	3.5
102.5°	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5
105°	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5	3.5
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5



REPORT NUMBER: P522176
 CATALOG NUMBER: CST-CA10-760-750-U-T5R-HSS-HM-EX90

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	3.5	3.5	3.5	3.5
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5
145°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5
150°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5
160°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5
165°	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5	3.5
167.5°	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5	3.5
170°	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5
172.5°	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5
175°	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5
177.5°	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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: P522176

CATALOG NUMBER: CST-CA10-760-750-U-T5R-HSS-HM-EX90

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7310.3	7310.3	7310.3	7310.3	7310.3	7310.3	7310.3	7310.3	7310.3	7310.3
2.5°	7362.2	7344.9	7338.0	7251.6	7275.8	7223.9	7344.9	7310.3	7303.4	7351.8
5°	7379.5	7300.0	7348.4	7293.1	7306.9	7230.9	7327.6	7286.2	7289.6	7313.8
7.5°	7389.8	7344.9	7393.3	7296.5	7334.5	7306.9	7376.0	7334.5	7376.0	7396.8
10°	7493.5	7472.8	7438.2	7410.6	7438.2	7372.6	7459.0	7452.1	7476.3	7538.5
12.5°	7635.3	7611.1	7576.5	7528.1	7548.8	7524.6	7590.3	7597.2	7642.2	7673.3
15°	7846.1	7815.0	7797.7	7749.3	7756.2	7738.9	7777.0	7783.9	7873.7	7863.4
17.5°	8143.3	8108.8	8122.6	8077.7	8060.4	8018.9	7949.8	7925.6	8032.7	8063.9
20°	8468.3	8430.2	8447.5	8409.5	8088.0	7434.8	7873.7	8174.5	7946.3	7929.1
22.5°	8838.1	8796.6	8810.4	8751.7	8354.2	7130.6	6204.3	6128.3	6999.3	7351.8
25°	9246.0	9190.6	9183.7	9107.7	7801.2	6456.6	6352.9	6218.1	5582.1	5077.5
27.5°	9750.6	9667.6	9626.2	8478.6	7745.9	6708.9	6553.4	6072.9	5150.1	5181.2
30°	10296.7	10175.7	9398.0	8641.1	8150.3	7006.2	6798.8	5322.9	5329.8	5316.0
32.5°	10918.9	10649.3	9207.9	9138.8	8634.2	7324.2	5644.4	5582.1	5589.0	5609.8
35°	11734.6	9885.4	9847.4	9850.8	9225.2	7085.7	5979.6	5920.9	5927.8	5941.6
37.5°	11907.4	10656.2	10663.1	10583.6	9854.3	6473.9	6387.5	6384.0	6370.2	6356.4
40°	12045.7	11627.4	11527.2	11399.3	9135.3	6971.6	6944.0	6923.2	6933.6	6961.3
42.5°	13127.5	12813.0	12716.2	12564.1	9370.4	7725.1	7635.3	7611.1	7638.7	7624.9
45°	14565.4	14302.7	14112.6	11617.1	10352.0	8544.3	8471.7	8440.6	8451.0	8537.4
47.5°	16086.2	15930.7	15350.0	12550.3	11496.1	9512.1	9439.5	9391.1	9408.4	9387.7
50°	17741.9	17600.1	14209.4	13957.1	12761.1	10555.9	10448.8	10431.5	10438.4	10435.0
52.5°	19539.2	16577.0	15747.5	15484.8	14095.3	11648.2	11610.1	11516.8	11537.6	11516.8
55°	21647.6	17461.9	17441.1	17133.5	15595.4	12916.7	12871.7	12740.4	11914.3	12636.7
57.5°	23648.9	19152.1	19152.1	18854.8	17130.1	14178.3	14105.7	14008.9	8468.3	6829.9
60°	25840.3	20845.7	20797.3	20551.9	18609.4	15381.1	12501.9	12474.3	5115.5	5132.8
62.5°	27734.4	22356.2	22442.6	22214.5	20033.5	11516.8	5793.0	5675.5	504.6	777.7
65°	29856.6	24025.6	24129.3	23894.3	21575.0	12215.0	6287.2	6228.5	114.1	103.7
67.5°	32262.3	25691.6	25456.6	25197.4	22477.2	12577.9	6532.7	6480.8	31.1	20.7
68°	32283.1	25657.1	25352.9	25176.6	22390.8	12508.8	6511.9	6463.5	31.1	20.7
70°	30624.0	24364.4	24060.2	24105.1	21319.3	11962.7	6242.3	6152.4	31.1	20.7
72.5°	26866.8	21682.2	21340.0	21098.0	18906.7	10635.4	5596.0	5426.6	31.1	20.7
75°	22988.7	18374.4	17807.5	17275.2	15211.7	8703.3	4590.1	4400.0	31.1	20.7
77.5°	18118.6	14005.5	13200.1	12851.0	11430.4	6429.0	3411.5	3204.1	31.1	17.3
80°	10013.3	8036.2	7351.8	7137.5	6536.1	3777.9	1956.3	1831.9	27.7	17.3
82.5°	2588.9	1942.5	1693.7	1634.9	1534.7	895.2	477.0	452.8	24.2	13.8
85°	369.8	273.1	300.7	356.0	342.2	231.6	165.9	141.7	20.7	10.4
87.5°	193.6	162.5	190.1	214.3	217.8	134.8	69.1	38.0	10.4	0.0
90°	31.1	31.1	34.6	38.0	38.0	17.3	13.8	0.0	0.0	0.0
92.5°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
100°	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
105°	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	3.5	6.9	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P522176
 CATALOG NUMBER: CST-CA10-760-750-U-T5R-HSS-HM-EX90

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
115°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	3.5	3.5	3.5	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)