

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: P579537

Luminaire Tested: **CST-CA10-630-750-U-T5N-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-630-750-U-T5N-HSS-HM-EX90
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 77471 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U2 - G5

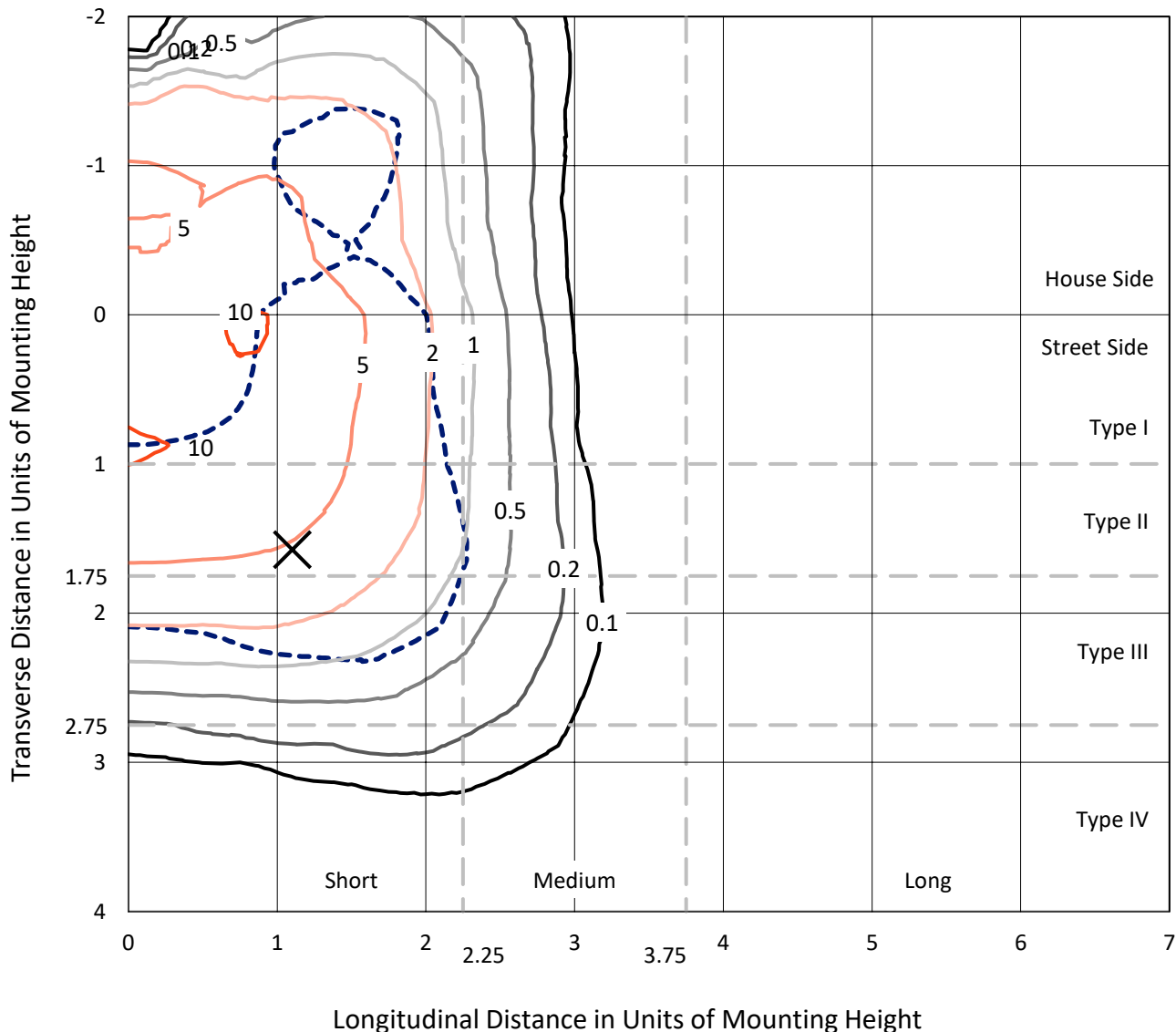
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

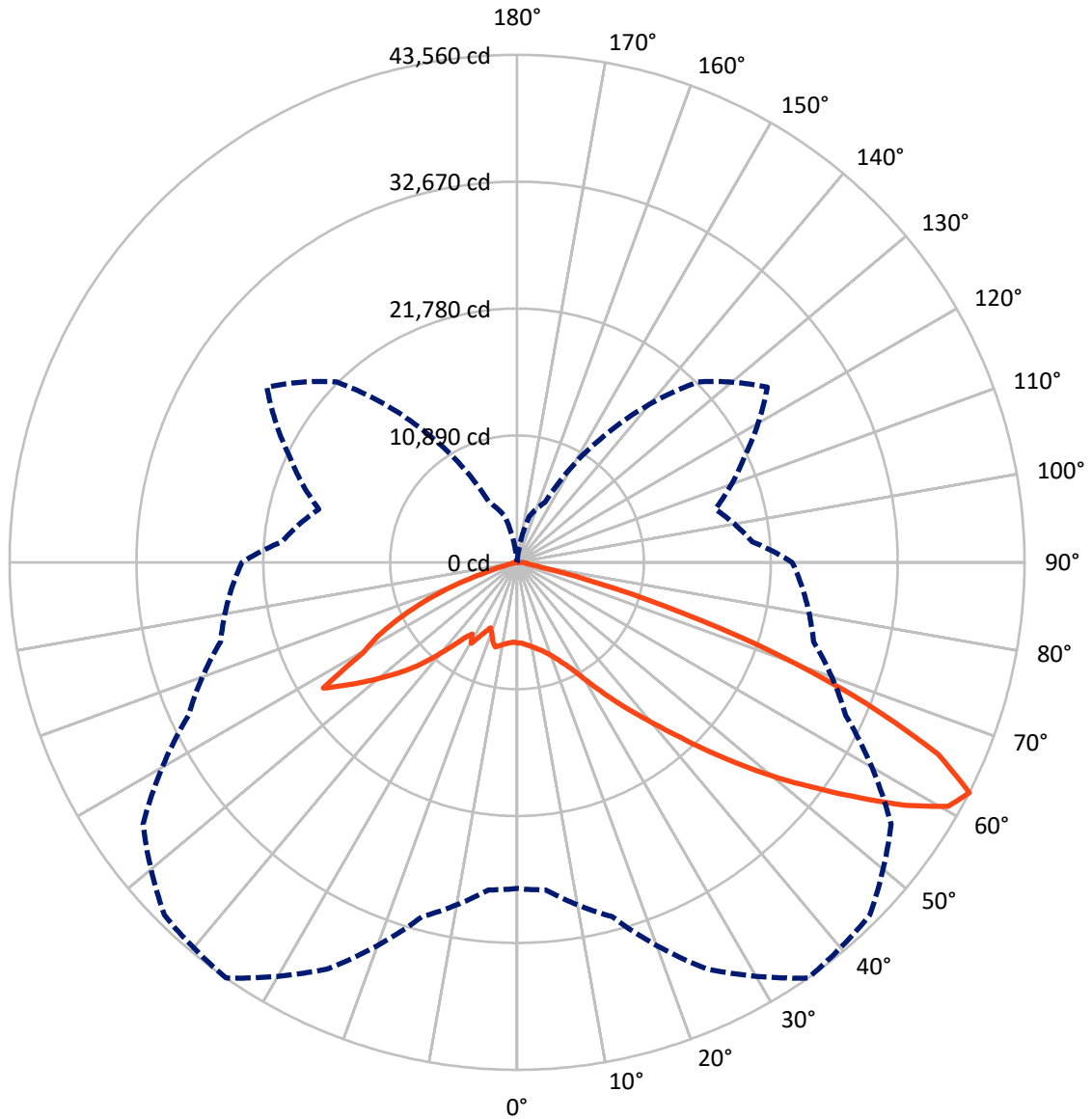
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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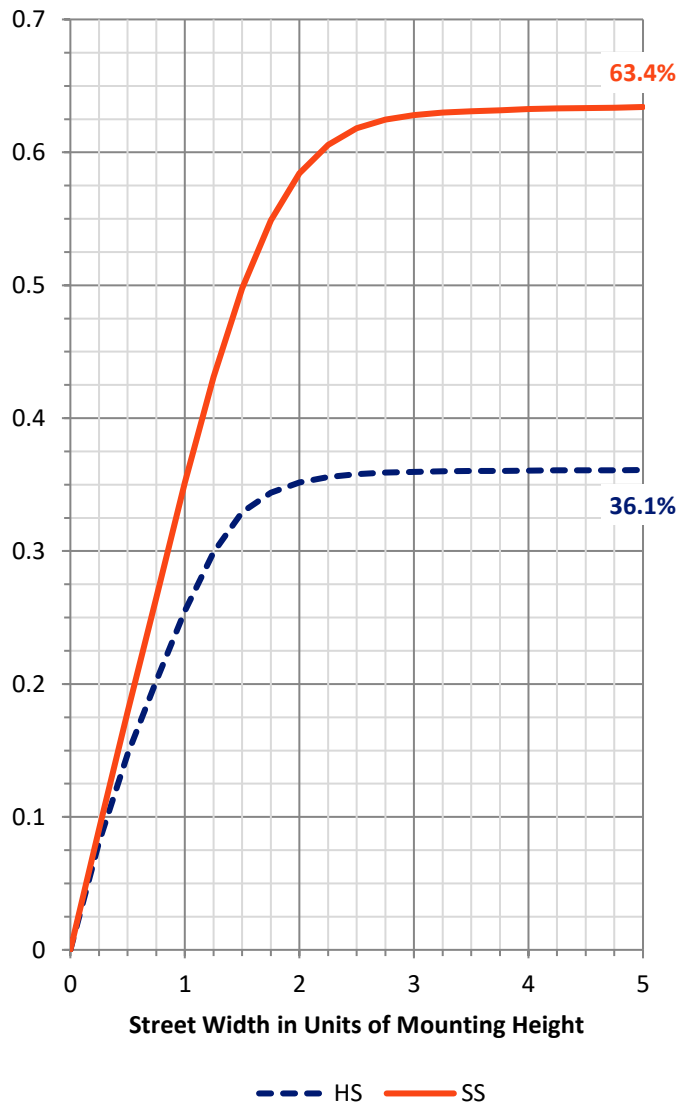
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28120.1	0.1	28120.2
	% Fixture	36.3	0.0	36.3
Street Side	Lumens	49314.1	36.7	49350.8
	% Fixture	63.7	0.0	63.7
Total	Lumens	77434.2	36.8	77471.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.5	0.9
10°-20°	2202.6	2.8
20°-30°	4237.4	5.5
30°-40°	8453.1	10.9
40°-50°	15434.9	19.9
50°-60°	23065.2	29.8
60°-70°	19326.5	24.9
70°-80°	3616.8	4.7
80°-90°	416.3	0.5
90°-100°	33.1	0.0
100°-110°	3.6	0.0
110°-120°	0.1	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°	77434.2	100.0
0°-180°	77471.0	100.0

Coefficient of Utilization

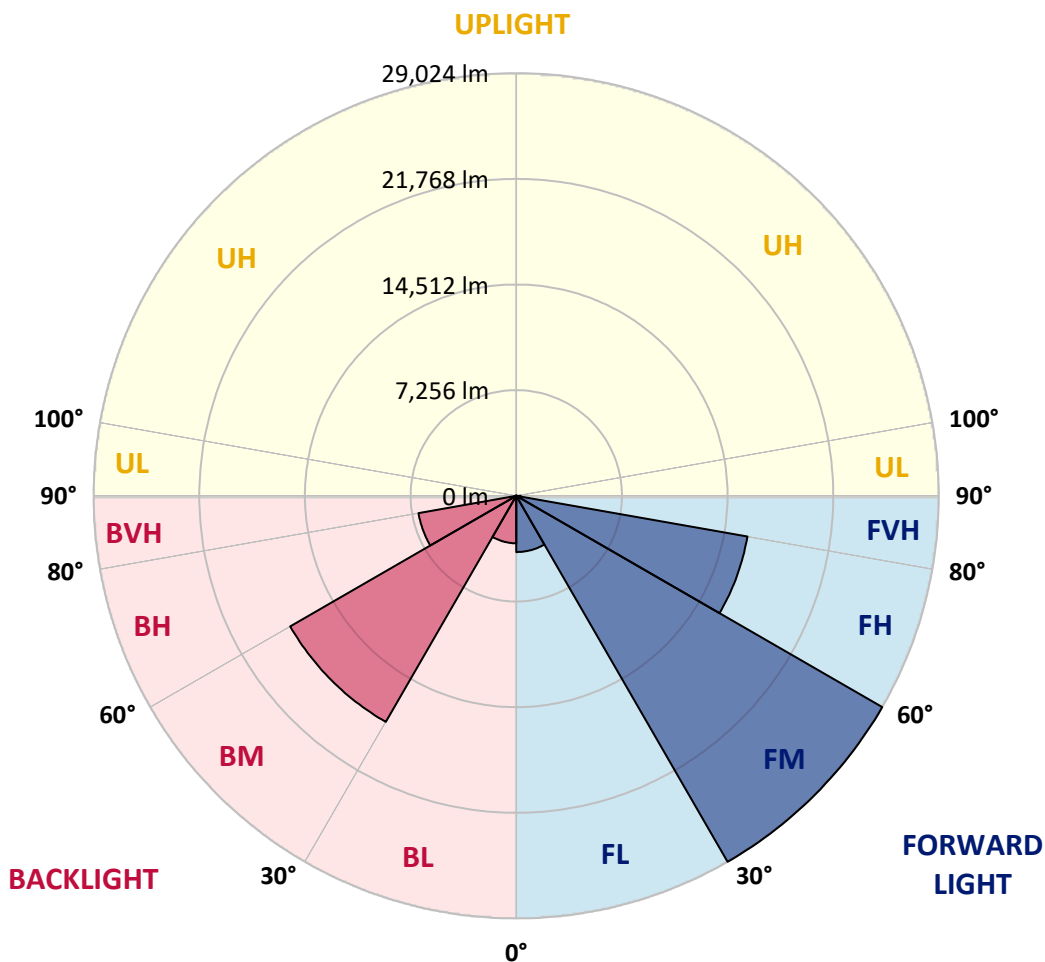


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3862.8	5.0			
FM (30°-60°)	29024.2	37.5			
FH (60°-80°)	16123.9	20.8			G5
FVH (80°-90°)	303.2	0.4			G3/500
BL (0°-30°)	3258.6	4.2	B4/5000		
BM (30°-60°)	17929.1	23.1	B5		
BH (60°-80°)	6819.3	8.8	B5		G5
BVH (80°-90°)	113.1	0.1			G2/225
UL (90°-100°)	33.1	0.0		U2/50	
UH (100°-180°)	3.6	0.0		U1/10	

BUG Rating: B5-U2-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6931.8	6931.8	6931.8	6931.8	6931.8	6931.8	6931.8	6931.8	6931.8	6931.8	6931.8
2.5°	7079.9	7021.9	7030.6	7071.2	6943.5	6995.7	6940.5	6992.8	6975.4	6998.6	7016.1
5°	7181.6	7109.0	7114.8	7161.3	7062.5	7106.1	7050.9	7085.7	7056.7	7088.7	7091.6
7.5°	7321.0	7260.0	7251.3	7297.7	7213.5	7251.3	7196.1	7213.5	7184.5	7222.2	7210.6
10°	7506.8	7451.7	7437.1	7469.1	7402.3	7422.6	7364.5	7387.8	7344.2	7387.8	7367.4
12.5°	7713.0	7640.4	7643.3	7678.2	7611.4	7625.9	7579.4	7605.6	7553.3	7599.8	7585.2
15°	7956.9	7852.4	7872.7	7910.5	7846.6	7890.2	7835.0	7872.7	7823.4	7872.7	7855.3
17.5°	8273.5	8154.4	8168.9	8229.9	8177.6	8247.3	8183.5	8229.9	8206.7	8238.6	8232.8
20°	8674.2	8595.8	8581.3	8656.8	8581.3	8668.4	8633.6	8714.9	8720.7	8752.6	8767.2
22.5°	9208.6	9156.3	9121.4	9173.7	9106.9	9167.9	9217.3	9356.7	9408.9	9493.2	9499.0
25°	9920.0	9917.1	9838.7	9841.6	9757.4	9838.7	9978.1	10195.9	10335.3	10442.8	10402.1
27.5°	10881.3	10898.7	10779.6	10733.2	10634.4	10756.4	11043.9	11314.0	11566.6	11717.6	11717.6
30°	12135.8	12153.2	11979.0	11886.1	11796.0	12008.0	12350.7	12702.1	13062.2	13280.0	13230.6
32.5°	13796.9	13741.7	13492.0	13323.5	13169.6	13413.6	13808.5	14206.3	14697.1	15010.7	14973.0
35°	15812.3	15611.9	15362.1	15048.5	14717.4	14909.1	15280.8	15780.3	16462.7	16933.2	16814.1
37.5°	18152.9	17955.4	17528.5	16988.4	16410.5	16433.7	16727.0	17592.4	18446.2	18829.5	18748.2
40°	20583.5	20429.6	20037.6	19343.5	18298.1	18057.0	18539.1	19581.6	20397.7	20879.7	20743.2
42.5°	23060.6	22903.8	22607.6	21910.6	20525.4	19944.6	20447.0	21582.5	22453.7	22927.0	22770.2
45°	25531.9	25351.9	25116.7	24501.0	23179.7	22328.8	22610.5	23653.0	24448.7	24986.0	24663.6
47.5°	27704.1	27585.0	27425.3	27175.6	26019.8	25078.9	25058.6	25746.8	26295.7	26650.0	26255.0
50°	29594.6	29510.4	29600.4	29548.1	29127.1	28270.4	27744.8	27698.3	27875.4	28133.9	27570.5
52.5°	31290.5	31142.4	31476.4	31891.7	32202.4	32028.2	30326.4	29371.0	29176.4	29263.6	28624.7
55°	32678.7	32609.0	33169.4	34212.0	35649.4	36032.8	32977.8	30997.2	30280.0	30233.5	29507.5
57.5°	33526.6	33625.4	34746.3	36732.6	39369.5	39491.4	36233.1	32736.7	31354.4	30854.9	30018.6
60°	32176.3	32556.7	34470.4	38568.0	42526.1	42601.6	38623.1	33056.2	30012.8	28894.7	27858.0
62.5°	28000.3	28226.8	31482.2	38507.0	43559.9	42822.3	39192.3	31127.9	26350.8	24567.8	23609.5
65°	19723.9	20147.9	23635.6	34644.7	39694.7	39787.6	35954.4	26914.2	21042.3	19070.5	18452.0
67.5°	11912.2	12318.7	16033.0	25009.2	32269.2	33311.7	29992.5	20377.3	15089.2	12597.5	11973.2
70°	3868.1	4309.5	7306.5	14740.7	23737.3	26237.6	22569.8	13262.5	7901.8	5535.0	4864.2
72.5°	1469.4	1603.0	2378.4	6438.2	14784.2	17516.9	13959.5	6653.1	2448.1	1457.8	1280.7
75°	955.4	975.7	1112.2	2256.4	7129.3	9644.2	6728.6	1948.6	981.6	871.2	807.3
77.5°	821.8	836.4	894.4	1123.8	2270.9	3688.1	1931.2	996.1	818.9	726.0	682.4
80°	775.4	781.2	818.9	952.5	1062.9	1231.3	929.3	833.4	714.4	682.4	650.5
82.5°	734.7	755.0	775.4	865.4	862.5	885.7	746.3	653.4	606.9	638.9	627.3
85°	685.3	697.0	711.5	772.5	702.8	595.3	575.0	450.1	438.5	467.5	438.5
87.5°	482.1	511.1	493.7	519.8	487.9	380.4	322.3	255.6	203.3	168.4	162.6
90°	197.5	200.4	188.8	174.2	153.9	127.8	101.6	63.9	29.0	14.5	5.8
92.5°	153.9	153.9	148.1	133.6	116.2	95.8	72.6	40.7	20.3	8.7	2.9
95°	95.8	98.7	92.9	84.2	72.6	58.1	43.6	23.2	14.5	5.8	2.9
97.5°	61.0	61.0	55.2	49.4	40.7	29.0	20.3	17.4	11.6	5.8	0.0
100°	34.8	34.8	31.9	26.1	20.3	14.5	14.5	11.6	8.7	2.9	0.0
102.5°	20.3	20.3	14.5	11.6	8.7	8.7	8.7	8.7	5.8	2.9	0.0
105°	8.7	8.7	5.8	5.8	2.9	2.9	5.8	5.8	5.8	2.9	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.8	5.8	2.9	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.8	2.9	2.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6931.8	6931.8	6931.8	6931.8	6931.8	6931.8	6931.8	6931.8	6931.8	6931.8
2.5°	7004.4	6952.2	6960.9	6911.5	6902.8	6853.4	6952.2	6963.8	6934.7	6960.9
5°	7085.7	7021.9	7042.2	6987.0	6978.3	6911.5	6998.6	6992.8	6969.6	6995.7
7.5°	7207.7	7140.9	7152.5	7091.6	7079.9	7007.3	7088.7	7062.5	7039.3	7071.2
10°	7379.1	7303.5	7309.4	7230.9	7239.7	7143.8	7242.6	7196.1	7167.1	7210.6
12.5°	7585.2	7501.0	7503.9	7422.6	7419.7	7326.8	7413.9	7387.8	7344.2	7411.0
15°	7852.4	7756.6	7747.9	7640.4	7611.4	7506.8	7588.1	7538.8	7509.7	7605.6
17.5°	8227.0	8119.6	8087.6	7956.9	7413.9	7100.3	7535.9	7684.0	7503.9	7474.9
20°	8726.5	8636.5	8563.9	8366.4	7454.6	6475.9	5752.8	5758.6	6519.5	6870.9
22.5°	9403.1	9295.7	9159.2	8877.5	6838.9	6066.4	6069.3	6060.6	5201.1	4838.1
25°	10329.5	10198.8	9920.0	8328.7	7260.0	6545.6	6528.2	5677.3	5204.0	5230.1
27.5°	11581.1	11314.0	9681.9	9022.7	8009.2	7167.1	6748.9	5715.1	5773.1	5813.8
30°	13172.5	12098.0	10463.1	10071.1	8909.5	7991.8	6240.7	6383.0	6499.1	6525.3
32.5°	14804.6	12132.9	11711.8	11296.5	10018.8	7271.6	7033.5	7303.5	7425.5	7440.0
35°	14790.0	13619.7	13076.7	12609.1	11046.8	7779.8	7930.8	8346.1	8656.8	8642.3
37.5°	15652.5	15260.5	14612.9	14020.5	9943.3	8764.3	9034.3	9504.8	9882.3	9870.7
40°	17455.9	17002.9	16317.5	15074.6	11009.0	9891.0	10268.5	10773.8	11041.0	11055.5
42.5°	19160.6	18785.9	18086.1	14084.4	12342.0	11247.2	11589.8	11929.6	12095.1	12147.4
45°	20856.5	20589.3	18260.3	15565.4	13953.7	12612.0	12838.6	12902.4	13076.7	13056.4
47.5°	22233.0	21936.8	17557.6	17424.0	15908.1	13907.2	13889.8	13805.6	13869.5	13884.0
50°	23490.4	19921.4	18968.9	19413.2	17958.3	15228.5	14897.5	14726.2	14639.0	14601.3
52.5°	24483.6	19927.2	20287.3	21469.2	20272.8	16663.1	15951.6	15469.6	13544.2	15051.4
55°	25328.6	20749.0	21536.0	23667.6	22267.8	18164.5	16904.2	16044.6	9040.1	7248.4
57.5°	25813.6	21373.4	22773.1	25726.5	24010.2	19834.3	15562.5	13457.1	5111.0	5105.2
60°	23940.5	20252.5	22738.3	26806.8	23507.8	15385.4	6336.5	5302.7	967.0	993.2
62.5°	20267.0	17618.5	21565.1	26214.4	21893.2	13535.5	5683.1	4083.0	31.9	26.1
65°	15701.9	14055.3	18158.7	23057.7	19918.5	11293.6	4236.9	2941.7	8.7	0.0
67.5°	10271.4	9905.5	13399.0	19119.9	16244.9	8749.7	2843.0	1408.4	5.8	0.0
70°	4379.2	5073.3	8488.4	13863.7	12434.9	6020.0	1370.7	508.2	2.9	0.0
72.5°	1225.5	1623.3	3778.1	8122.5	7820.5	3165.4	534.3	214.9	2.9	0.0
75°	726.0	624.4	1083.2	3240.9	3807.1	1112.2	246.8	165.5	2.9	0.0
77.5°	604.0	487.9	621.5	827.6	1152.9	400.8	209.1	148.1	0.0	0.0
80°	566.3	432.7	537.2	577.9	569.2	334.0	206.2	148.1	0.0	0.0
82.5°	537.2	377.5	444.3	444.3	476.3	307.8	194.6	145.2	0.0	0.0
85°	403.7	264.3	296.2	383.3	342.7	217.8	142.3	116.2	0.0	0.0
87.5°	153.9	95.8	116.2	122.0	98.7	49.4	11.6	11.6	0.0	0.0
90°	2.9	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
95°	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
100°	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
105°	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
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: CST-CA10-630-750-U-T5N-HSS-HM-EX90

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	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
117.5°	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
122.5°	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
127.5°	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
132.5°	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
137.5°	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
142.5°	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
147.5°	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
152.5°	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
157.5°	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
162.5°	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
167.5°	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
172.5°	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
177.5°	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

(END OF REPORT)