

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: P579534

Luminaire Tested: **CST-CA10-630-750-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-1)
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-T5-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: 75857 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U2 - G5

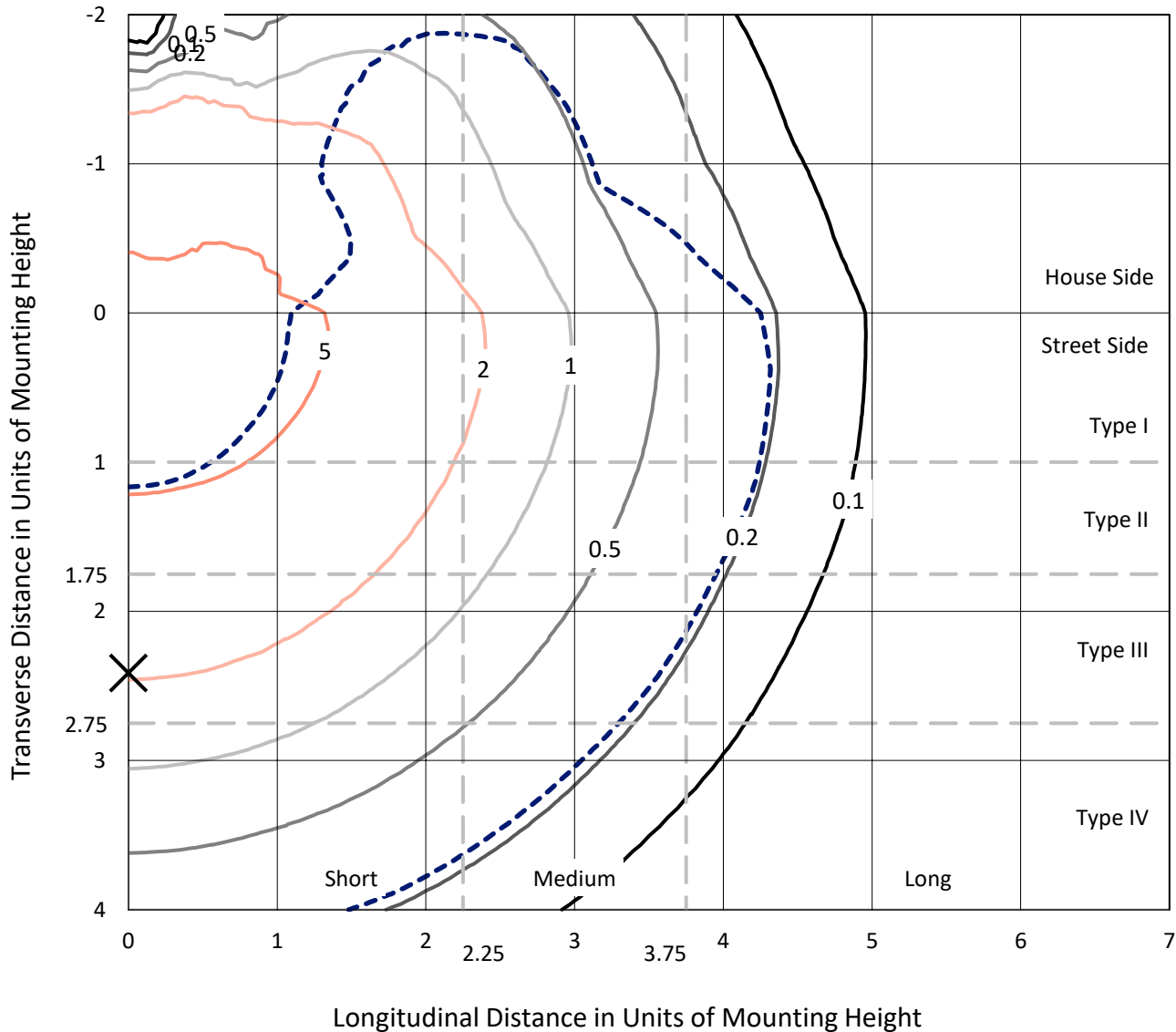
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

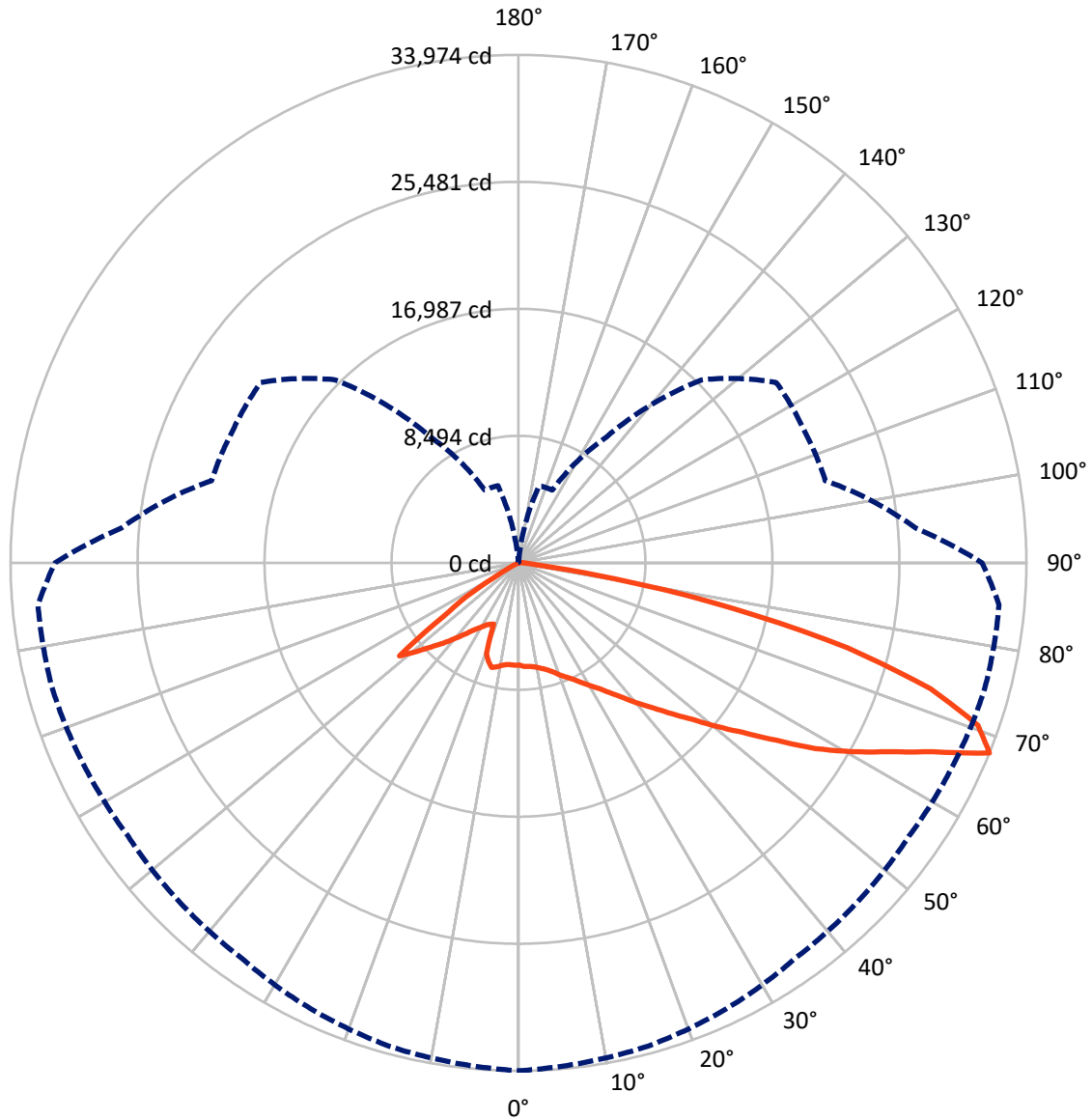
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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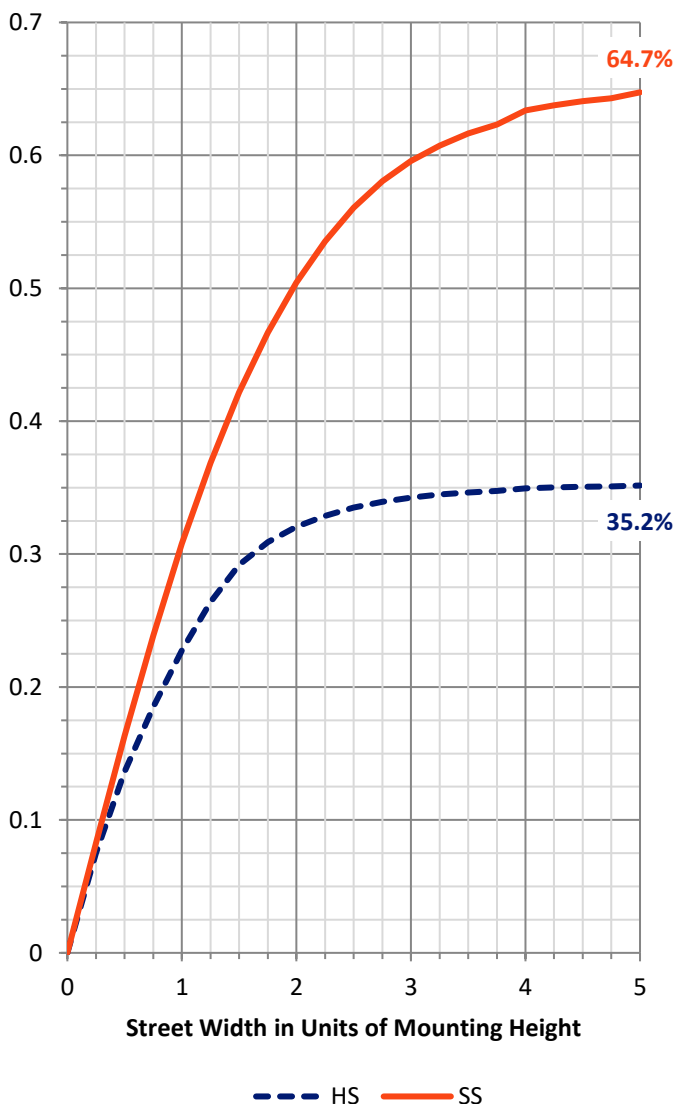
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26701.5	1.6	26703.1
	% Fixture	35.2	0.0	35.2
Street Side	Lumens	49100.4	53.5	49153.9
	% Fixture	64.7	0.1	64.8
Total	Lumens	75801.9	55.1	75857.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.6	0.9
10°-20°	2043.0	2.7
20°-30°	3542.1	4.7
30°-40°	5812.0	7.7
40°-50°	9694.5	12.8
50°-60°	15689.3	20.7
60°-70°	21656.3	28.5
70°-80°	15624.1	20.6
80°-90°	1082.9	1.4
90°-100°	46.9	0.1
100°-110°	7.8	0.0
110°-120°	0.3	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°	75801.9	99.9
0°-180°	75857.0	100.0

Coefficient of Utilization

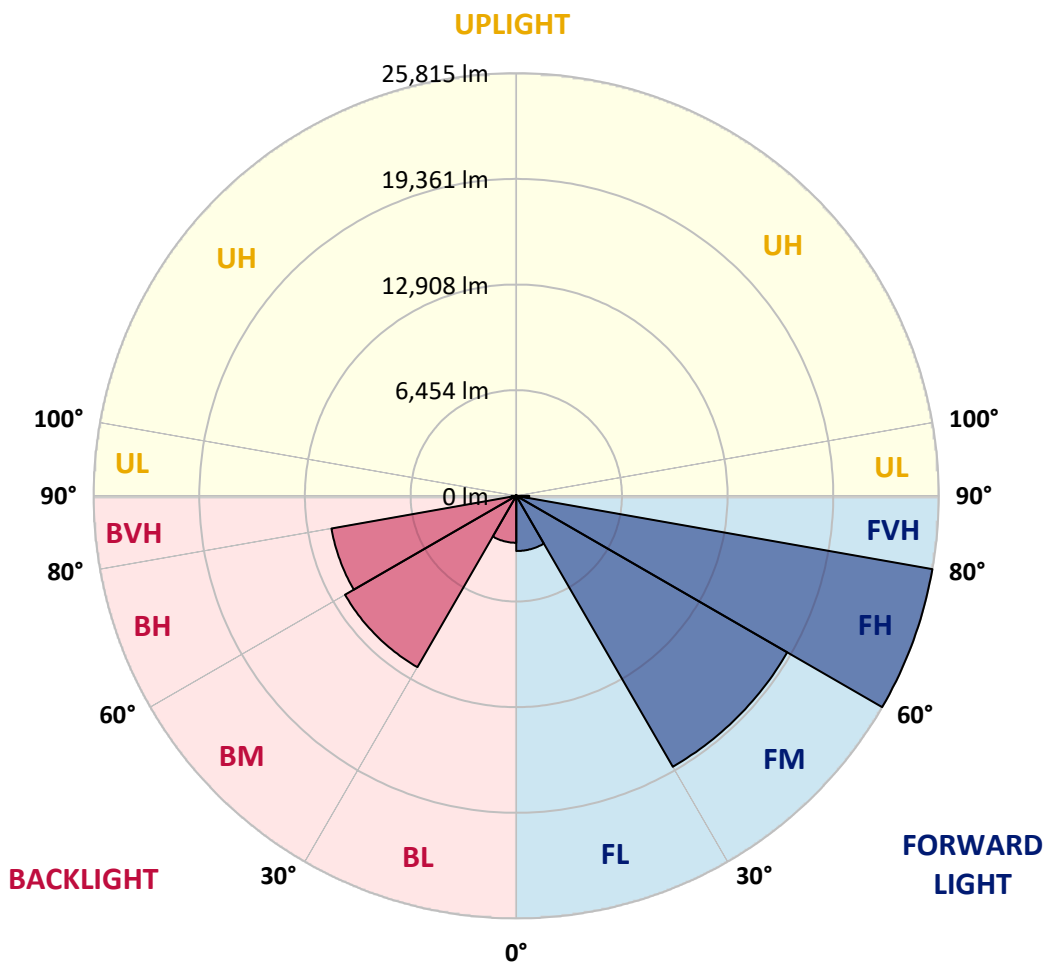


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3373.3	4.4			
FM (30°-60°)	19114.0	25.2			
FH (60°-80°)	25815.1	34.0			G5
FVH (80°-90°)	797.9	1.1			G5
BL (0°-30°)	2869.4	3.8	B4/5000		
BM (30°-60°)	12081.8	15.9	B5		
BH (60°-80°)	11465.3	15.1	B5		G5
BVH (80°-90°)	285.0	0.4			G3/500
UL (90°-100°)	46.9	0.1		U2/50	
UH (100°-180°)	8.1	0.0		U1/10	

BUG Rating: B5-U2-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6836.0	6836.0	6836.0	6836.0	6836.0	6836.0	6836.0	6836.0	6836.0	6836.0	6836.0
2.5°	6940.6	6899.9	6902.8	6943.5	6833.1	6873.8	6827.3	6868.0	6847.7	6862.2	6879.6
5°	6960.9	6911.5	6917.4	6966.7	6879.6	6911.5	6856.4	6879.6	6862.2	6879.6	6882.5
7.5°	7013.2	6963.8	6966.7	7004.5	6914.5	6937.7	6885.4	6897.0	6868.0	6899.9	6891.2
10°	7123.5	7077.1	7059.7	7091.6	7013.2	7016.1	6955.1	6966.7	6923.2	6966.7	6949.3
12.5°	7271.6	7207.8	7213.6	7231.0	7135.2	7141.0	7068.4	7085.8	7013.2	7074.2	7053.8
15°	7451.7	7373.3	7382.0	7411.0	7318.1	7309.4	7242.6	7242.6	7178.7	7225.2	7204.9
17.5°	7701.4	7614.3	7608.5	7628.8	7553.3	7553.3	7477.8	7469.1	7405.2	7443.0	7437.2
20°	8026.7	7928.0	7910.5	7948.3	7852.4	7864.1	7768.2	7759.5	7689.8	7713.1	7716.0
22.5°	8320.0	8241.6	8238.7	8296.8	8183.5	8198.0	8110.9	8087.7	8029.6	8061.5	8070.2
25°	8656.9	8645.2	8636.5	8656.9	8543.6	8543.6	8482.6	8462.3	8424.5	8447.8	8471.0
27.5°	9080.8	9075.0	9051.8	9054.7	8958.9	8973.4	8906.6	8895.0	8877.6	8874.7	8863.0
30°	9548.4	9522.3	9490.3	9510.6	9467.1	9481.6	9423.5	9385.8	9380.0	9382.9	9365.4
32.5°	10068.2	10033.4	10013.0	10047.9	10065.3	10106.0	10103.1	9998.5	9998.5	10042.1	9963.7
35°	10712.9	10657.7	10675.1	10721.6	10756.5	10861.0	10843.6	10771.0	10794.2	10814.5	10721.6
37.5°	11470.8	11433.1	11511.5	11598.6	11601.5	11749.6	11714.8	11732.2	11729.3	11703.2	11642.2
40°	12379.8	12318.8	12400.1	12466.9	12426.3	12603.4	12597.6	12676.0	12728.3	12818.3	12783.5
42.5°	13282.9	13236.5	13314.9	13460.1	13436.9	13640.1	13669.2	13791.1	13863.7	14003.1	13921.8
45°	14395.2	14369.0	14441.6	14554.9	14633.3	14903.4	15010.8	15063.1	15246.1	15414.5	15225.7
47.5°	15641.0	15675.9	15664.2	15870.4	16044.7	16372.8	16416.4	16584.8	16744.5	16930.4	16747.4
50°	17191.7	17133.7	17185.9	17383.4	17668.0	17906.1	18129.7	18370.8	18527.6	18719.3	18382.4
52.5°	18861.6	18910.9	19027.1	19332.0	19541.1	19822.8	20026.1	20313.6	20467.5	20633.0	20194.5
55°	20967.0	21007.6	21135.4	21449.0	21597.1	21916.6	22056.0	22343.5	22491.6	22564.2	22003.7
57.5°	23435.4	23298.9	23403.4	23566.1	23795.5	24141.0	24178.8	24448.9	24448.9	24541.8	23827.4
60°	25639.5	25546.6	25656.9	25889.3	25979.3	26292.9	26261.0	26481.7	26539.8	26470.1	25616.3
62.5°	27811.7	27829.1	27971.4	28046.9	28012.1	28197.9	28273.5	28505.8	28409.9	28433.2	27448.7
65°	30448.6	30489.2	30474.7	30335.3	30021.7	30387.6	30367.2	30736.1	30759.3	30968.4	29824.2
67.5°	33974.0	33794.0	33465.8	32905.4	32283.9	32069.0	31880.2	32063.2	32298.4	32260.7	31006.1
70°	32603.3	32310.0	32138.7	31650.8	30820.3	30390.5	29998.4	30030.4	30373.1	30405.0	29121.4
72.5°	28822.3	28674.2	28015.0	27588.1	27018.9	26687.9	26214.5	26322.0	26769.2	26844.7	25822.5
75°	22735.5	22599.0	22003.7	21864.3	21582.6	21745.2	21629.1	21672.6	22032.7	21701.7	21088.9
77.5°	14714.6	14746.6	14653.6	14970.2	14958.6	14967.3	15391.3	15434.8	15786.2	15582.9	14990.5
80°	6597.9	6693.7	6920.3	7379.1	7100.3	7251.3	7413.9	7364.6	7718.9	6917.4	7204.9
82.5°	1335.8	1382.3	1303.9	1362.0	1272.0	1318.4	1385.2	1283.6	1272.0	1179.0	1094.8
85°	688.3	697.0	694.1	679.5	598.2	551.8	531.4	447.2	403.7	394.9	365.9
87.5°	447.2	453.0	438.5	435.6	383.3	351.4	313.6	264.3	220.7	153.9	127.8
90°	273.0	273.0	258.5	243.9	217.8	194.6	156.8	113.3	66.8	26.1	14.5
92.5°	183.0	183.0	177.1	168.4	151.0	130.7	101.6	66.8	31.9	11.6	5.8
95°	116.2	116.2	113.3	110.4	98.7	84.2	63.9	40.7	20.3	8.7	2.9
97.5°	75.5	75.5	75.5	72.6	66.8	58.1	43.6	26.1	14.5	5.8	2.9
100°	46.5	49.4	46.5	46.5	43.6	37.8	29.0	17.4	11.6	5.8	2.9
102.5°	26.1	26.1	29.0	29.0	26.1	23.2	17.4	14.5	8.7	5.8	2.9
105°	11.6	11.6	14.5	14.5	14.5	11.6	11.6	8.7	5.8	5.8	2.9
107.5°	2.9	2.9	2.9	5.8	8.7	8.7	8.7	8.7	5.8	2.9	2.9
110°	0.0	0.0	0.0	2.9	2.9	5.8	5.8	5.8	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°	6836.0	6836.0	6836.0	6836.0	6836.0	6836.0	6836.0	6836.0	6836.0	6836.0
2.5°	6862.2	6827.3	6853.5	6809.9	6798.3	6760.5	6833.1	6844.8	6838.9	6850.6
5°	6868.0	6824.4	6856.4	6812.8	6809.9	6769.3	6844.8	6847.7	6827.3	6836.0
7.5°	6885.4	6844.8	6868.0	6818.6	6824.4	6775.1	6862.2	6859.3	6847.7	6868.0
10°	6949.3	6902.8	6911.5	6859.3	6873.8	6821.5	6929.0	6934.8	6923.2	6960.9
12.5°	7059.7	6995.8	7016.1	6955.1	6966.7	6914.5	7045.1	7053.8	7053.8	7114.8
15°	7210.7	7143.9	7187.4	7109.0	7111.9	7033.5	7132.3	7132.3	7143.9	7228.1
17.5°	7431.4	7350.1	7408.1	7335.5	6882.5	6711.2	7048.0	7254.2	6911.5	6882.5
20°	7704.3	7666.6	7698.5	7579.5	6844.8	6060.7	5450.8	5418.9	6095.5	6432.4
22.5°	8038.3	8000.6	8015.1	7864.1	6110.0	5558.3	5549.6	5491.5	4646.4	4414.1
25°	8430.3	8410.0	8378.1	7111.9	6316.2	5787.7	5718.0	4960.1	4475.1	4518.6
27.5°	8851.4	8790.4	7713.1	7387.8	6632.8	6017.1	5622.2	4631.9	4614.5	4655.1
30°	9321.9	8999.5	7896.0	7785.7	7001.6	6301.7	4893.3	4835.2	4835.2	4899.1
32.5°	9920.1	8404.2	8404.2	8346.1	7457.5	5532.1	5151.7	5116.9	5157.5	5183.7
35°	9830.1	9040.2	9133.1	9107.0	8076.1	5633.8	5567.0	5508.9	5517.6	5517.6
37.5°	9859.1	9891.1	10001.4	9888.2	7045.1	6075.2	5967.7	5956.1	5964.8	5985.2
40°	10771.0	10788.4	10829.1	10579.3	7570.8	6589.2	6441.1	6412.1	6441.1	6484.7
42.5°	11752.5	11801.9	11848.4	9621.0	8305.5	7172.9	7024.8	6969.6	7021.9	7068.4
45°	12914.1	12989.6	12278.2	10471.9	9136.0	7837.9	7681.1	7614.3	7646.3	7686.9
47.5°	14220.9	14340.0	11578.3	11555.1	10111.8	8624.9	8444.9	8317.1	8366.5	8363.6
50°	15696.2	13704.0	12792.2	12777.6	11200.8	9501.9	9316.1	9199.9	9237.7	9208.6
52.5°	17290.5	14078.6	14107.7	14104.8	12339.1	10445.7	10274.4	10129.2	9830.1	10106.0
55°	18922.5	15373.8	15484.2	15466.8	13532.7	11421.5	11238.5	11102.0	7254.2	6127.5
57.5°	20545.9	16727.1	16762.0	16802.6	14769.8	12362.4	11558.0	10617.1	4138.2	4117.9
60°	22148.9	18016.5	18086.2	18109.4	15437.7	10233.7	4724.8	4811.9	1251.6	1495.6
62.5°	23810.0	19288.4	19352.3	19332.0	16102.7	9516.4	4963.0	4864.2	116.2	107.4
65°	25929.9	20882.7	20792.7	20725.9	17151.1	10155.3	5331.8	5305.6	37.8	26.1
67.5°	26673.3	21245.7	21062.8	21039.6	17302.1	10291.8	5360.8	5340.5	37.8	26.1
70°	24989.0	19866.3	19552.7	19561.4	16099.8	9626.8	5000.7	4971.7	34.8	26.1
72.5°	21884.6	17546.0	17415.4	16724.2	13942.2	8468.1	4434.4	4324.1	34.8	23.2
75°	17967.1	14174.5	13884.1	13108.7	11096.2	6731.5	3481.9	3339.6	31.9	20.3
77.5°	12472.7	9940.4	9385.8	8595.9	7422.7	4463.5	2340.6	2157.7	29.0	20.3
80°	5654.1	4080.1	4100.5	3142.1	2517.8	1513.0	743.4	673.7	26.1	17.4
82.5°	984.5	726.0	682.4	659.2	548.9	371.7	226.5	194.6	23.2	11.6
85°	342.7	275.9	304.9	360.1	319.4	223.6	139.4	133.6	14.5	5.8
87.5°	116.2	122.0	142.3	171.3	151.0	87.1	52.3	37.8	2.9	0.0
90°	11.6	14.5	14.5	14.5	8.7	0.0	0.0	0.0	0.0	0.0
92.5°	2.9	2.9	0.0	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	2.9	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	2.9	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
110°	2.9	2.9	2.9	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-T5-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)