

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: P579540

Luminaire Tested: **CST-CA10-760-750-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579540
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-CA10-760-750-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: 87581 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U3 - G5

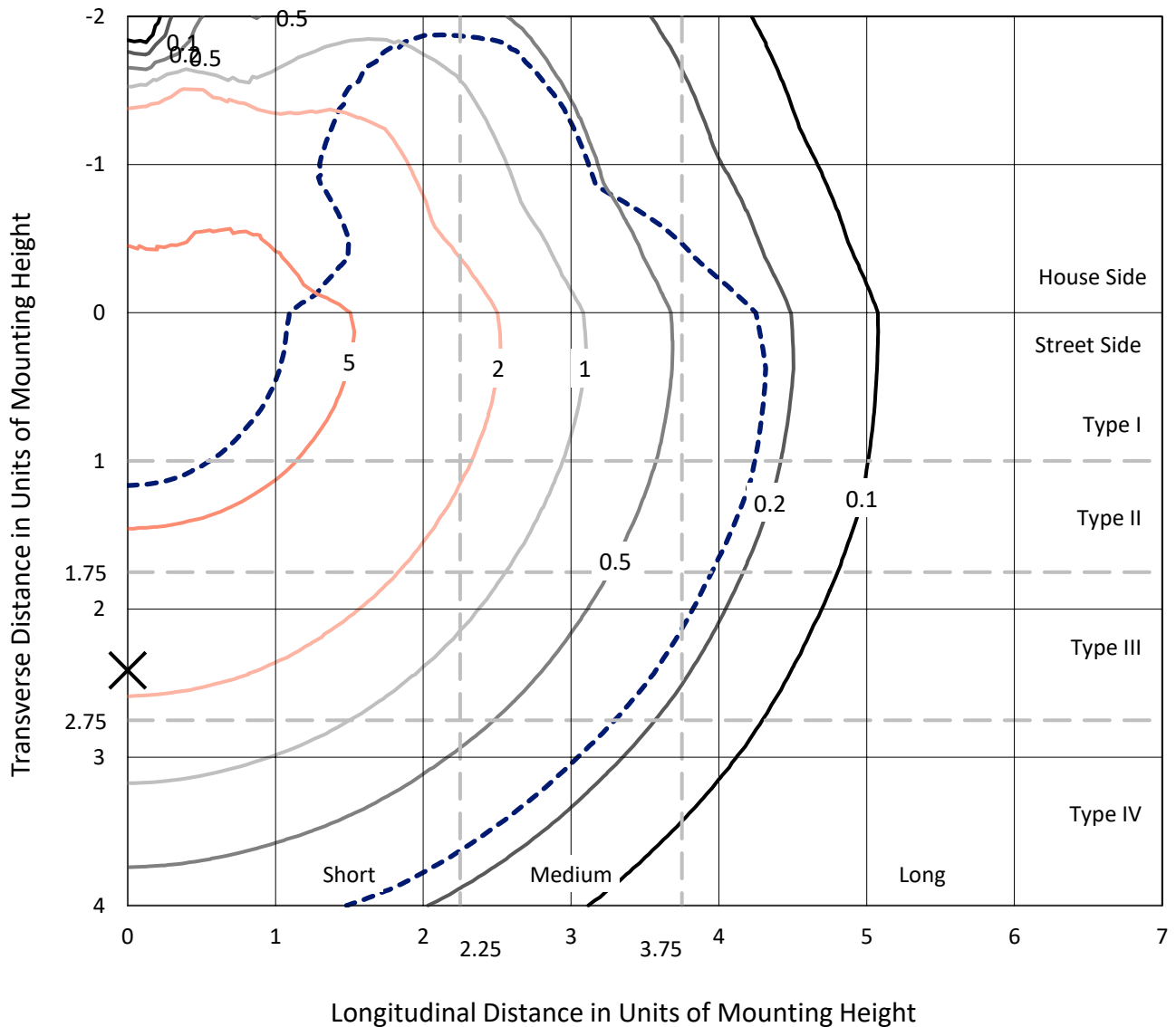
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

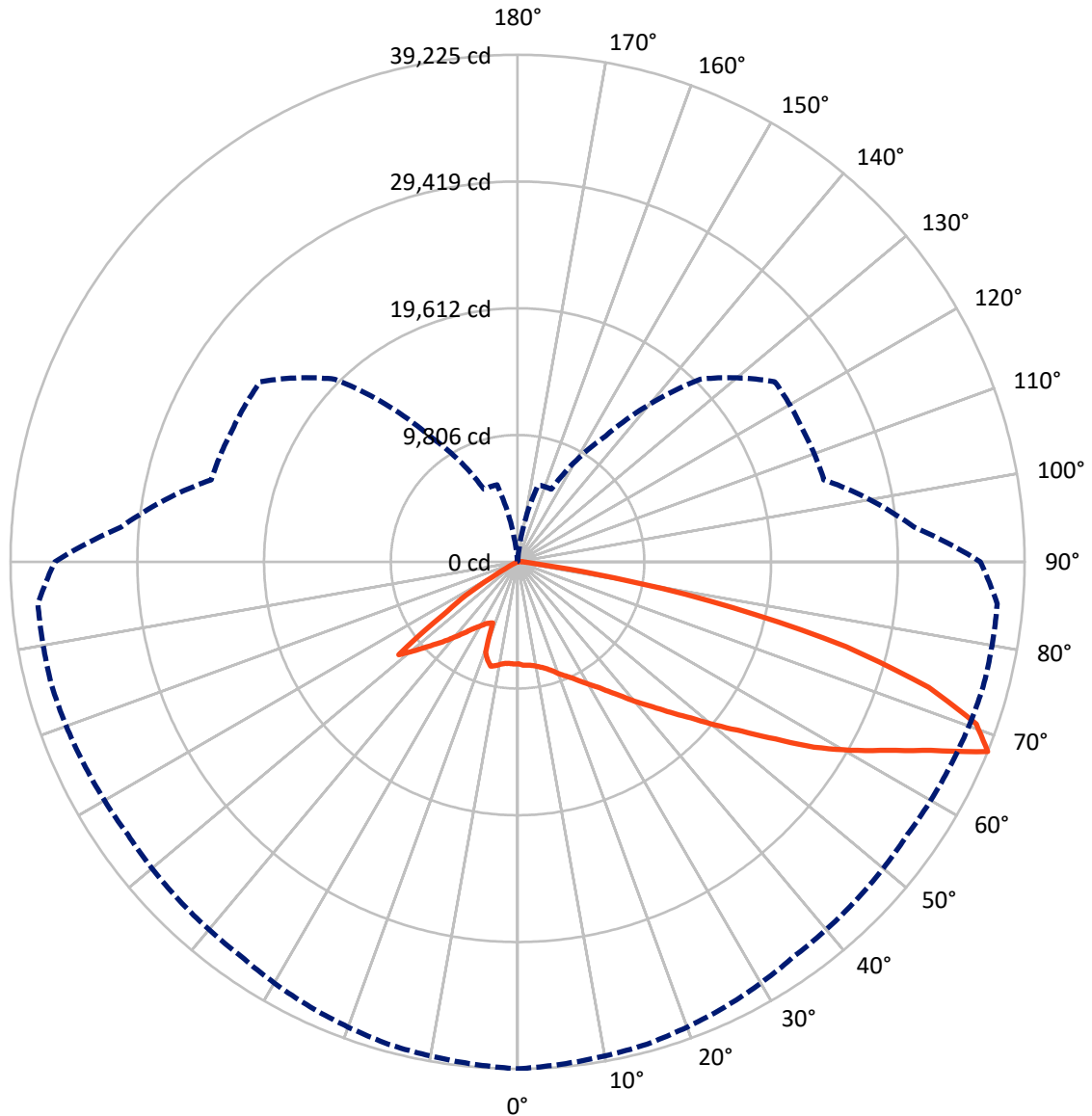
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 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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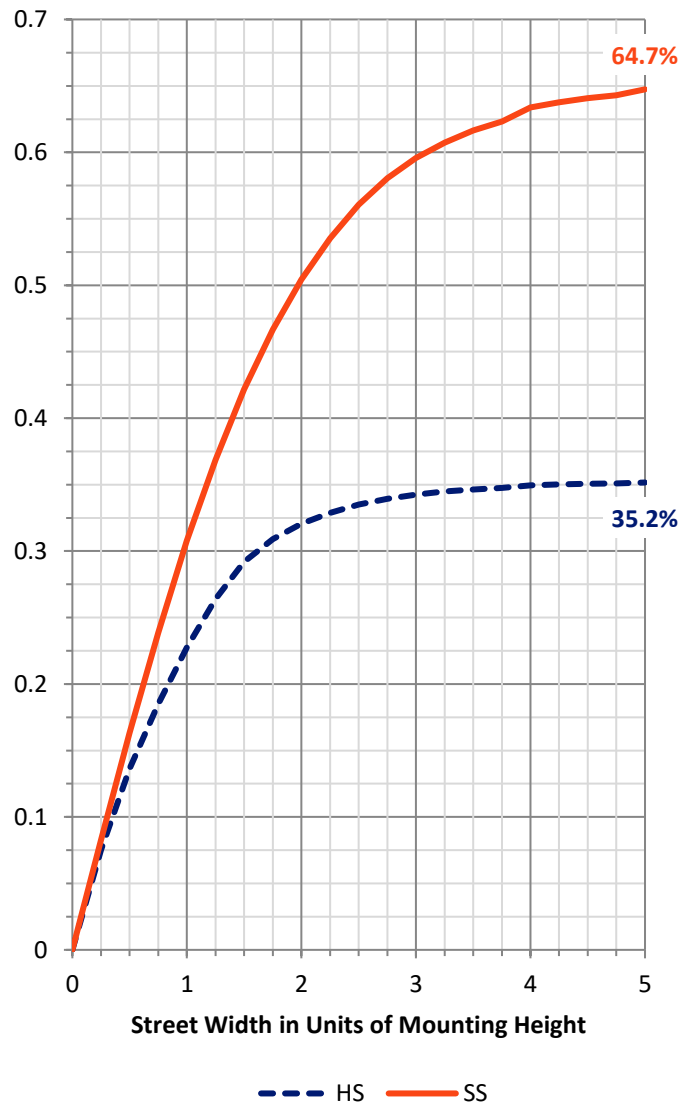
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30828.4	1.8	30830.2
	% Fixture	35.2	0.0	35.2
Street Side	Lumens	56689.0	61.8	56750.8
	% Fixture	64.7	0.1	64.8
Total	Lumens	87517.4	63.6	87581.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	759.3	0.9
10°-20°	2358.7	2.7
20°-30°	4089.5	4.7
30°-40°	6710.3	7.7
40°-50°	11192.8	12.8
50°-60°	18114.2	20.7
60°-70°	25003.4	28.5
70°-80°	18038.9	20.6
80°-90°	1250.3	1.4
90°-100°	54.2	0.1
100°-110°	9.1	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°	87517.4	99.9
0°-180°	87581.0	100.0

Coefficient of Utilization

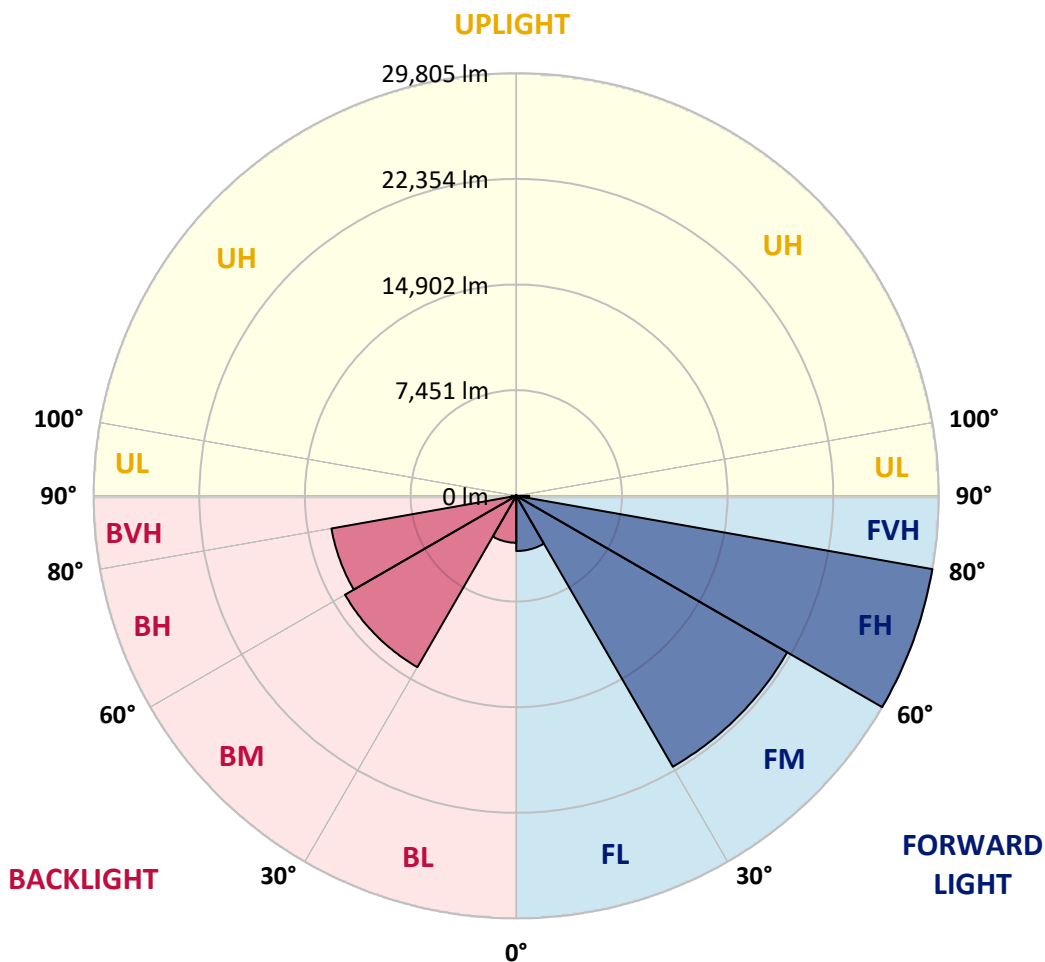


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3894.6	4.4			
FM (30°-60°)	22068.2	25.2			
FH (60°-80°)	29805.0	34.0			G5
FVH (80°-90°)	921.3	1.1			G5
BL (0°-30°)	3312.9	3.8	B4/5000		
BM (30°-60°)	13949.1	15.9	B5		
BH (60°-80°)	13237.3	15.1	B5		G5
BVH (80°-90°)	329.0	0.4			G3/500
UL (90°-100°)	54.2	0.1		U3/500	
UH (100°-180°)	9.4	0.0		U1/10	

BUG Rating: B5-U3-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7892.6	7892.6	7892.6	7892.6	7892.6	7892.6	7892.6	7892.6	7892.6	7892.6	7892.6
2.5°	8013.3	7966.3	7969.7	8016.6	7889.2	7936.2	7882.5	7929.5	7906.0	7922.8	7942.9
5°	8036.8	7979.8	7986.5	8043.5	7942.9	7979.8	7916.0	7942.9	7922.8	7942.9	7946.2
7.5°	8097.1	8040.1	8043.5	8087.0	7983.1	8009.9	7949.6	7963.0	7929.5	7966.3	7956.3
10°	8224.5	8170.9	8150.7	8187.6	8097.1	8100.5	8030.0	8043.5	7993.2	8043.5	8023.3
12.5°	8395.5	8321.7	8328.4	8348.6	8237.9	8244.6	8160.8	8180.9	8097.1	8167.5	8144.0
15°	8603.4	8512.9	8522.9	8556.4	8449.2	8439.1	8362.0	8362.0	8288.2	8341.9	8318.4
17.5°	8891.7	8791.1	8784.4	8807.9	8720.7	8720.7	8633.6	8623.5	8549.7	8593.3	8586.6
20°	9267.2	9153.2	9133.1	9176.7	9066.1	9079.5	8968.8	8958.8	8878.3	8905.1	8908.5
22.5°	9605.9	9515.4	9512.0	9579.1	9448.3	9465.1	9364.5	9337.7	9270.6	9307.5	9317.5
25°	9994.8	9981.4	9971.3	9994.8	9864.0	9864.0	9793.6	9770.2	9726.6	9753.4	9780.2
27.5°	10484.3	10477.6	10450.8	10454.1	10343.5	10360.3	10283.2	10269.7	10249.6	10246.3	10232.9
30°	11024.1	10994.0	10957.1	10980.5	10930.3	10947.0	10880.0	10836.4	10829.7	10833.0	10812.9
32.5°	11624.3	11584.1	11560.6	11600.8	11620.9	11667.9	11664.5	11543.8	11543.8	11594.1	11503.6
35°	12368.6	12304.9	12325.0	12378.7	12418.9	12539.6	12519.5	12435.7	12462.5	12486.0	12378.7
37.5°	13243.7	13200.1	13290.6	13391.2	13394.6	13565.6	13525.3	13545.5	13542.1	13511.9	13441.5
40°	14293.1	14222.7	14316.6	14393.7	14346.8	14551.3	14544.6	14635.1	14695.5	14799.4	14759.2
42.5°	15335.9	15282.2	15372.8	15540.4	15513.6	15748.3	15781.8	15922.6	16006.4	16167.4	16073.5
45°	16620.0	16589.8	16673.7	16804.4	16894.9	17206.8	17330.8	17391.2	17602.4	17796.9	17578.9
47.5°	18058.4	18098.6	18085.2	18323.3	18524.4	18903.3	18953.6	19148.1	19332.5	19547.0	19335.8
50°	19848.8	19781.7	19842.1	20070.1	20398.7	20673.6	20931.8	21210.1	21391.1	21612.4	21223.5
52.5°	21776.7	21833.7	21967.8	22319.8	22561.2	22886.5	23121.2	23453.1	23630.8	23821.9	23315.6
55°	24207.5	24254.4	24402.0	24764.1	24935.1	25303.9	25464.8	25796.7	25967.7	26051.5	25404.5
57.5°	27057.4	26899.8	27020.5	27208.3	27473.2	27872.1	27915.7	28227.5	28227.5	28334.8	27510.0
60°	29602.2	29494.9	29622.3	29890.5	29994.5	30356.6	30319.7	30574.5	30641.6	30561.1	29575.4
62.5°	32110.1	32130.2	32294.5	32381.7	32341.5	32556.1	32643.2	32911.5	32800.8	32827.6	31691.0
65°	35154.5	35201.4	35184.7	35023.7	34661.6	35084.1	35060.6	35486.4	35513.3	35754.7	34433.6
67.5°	39224.8	39017.0	38638.1	37991.0	37273.5	37025.4	36807.5	37018.7	37290.3	37246.7	35798.2
70°	37642.3	37303.7	37105.9	36542.6	35583.7	35087.4	34634.8	34671.7	35067.3	35104.2	33622.3
72.5°	33276.9	33105.9	32344.8	31852.0	31194.8	30812.6	30266.1	30390.1	30906.5	30993.6	29813.4
75°	26249.4	26091.8	25404.5	25243.5	24918.3	25106.0	24971.9	25022.2	25438.0	25055.8	24348.3
77.5°	16988.8	17025.7	16918.4	17283.9	17270.5	17280.5	17770.0	17820.3	18226.0	17991.3	17307.3
80°	7617.6	7728.3	7989.8	8519.6	8197.7	8372.0	8559.8	8502.8	8911.8	7986.5	8318.4
82.5°	1542.3	1596.0	1505.4	1572.5	1468.5	1522.2	1599.3	1482.0	1468.5	1361.3	1264.0
85°	794.6	804.7	801.3	784.6	690.7	637.0	613.6	516.3	466.0	456.0	422.5
87.5°	516.3	523.0	506.3	502.9	442.6	405.7	362.1	305.1	254.8	177.7	147.5
90°	315.2	315.2	298.4	281.6	251.5	224.6	181.1	130.8	77.1	30.2	16.8
92.5°	211.2	211.2	204.5	194.5	174.3	150.9	117.3	77.1	36.9	13.4	6.7
95°	134.1	134.1	130.8	127.4	114.0	97.2	73.8	46.9	23.5	10.1	3.4
97.5°	87.2	87.2	87.2	83.8	77.1	67.1	50.3	30.2	16.8	6.7	3.4
100°	53.6	57.0	53.6	53.6	50.3	43.6	33.5	20.1	13.4	6.7	3.4
102.5°	30.2	30.2	33.5	33.5	30.2	26.8	20.1	16.8	10.1	6.7	3.4
105°	13.4	13.4	16.8	16.8	16.8	13.4	13.4	10.1	6.7	6.7	3.4
107.5°	3.4	3.4	3.4	6.7	10.1	10.1	10.1	10.1	6.7	3.4	3.4
110°	0.0	0.0	0.0	3.4	3.4	6.7	6.7	6.7	6.7	3.4	3.4



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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°	7892.6	7892.6	7892.6	7892.6	7892.6	7892.6	7892.6	7892.6	7892.6	7892.6
2.5°	7922.8	7882.5	7912.7	7862.4	7849.0	7805.4	7889.2	7902.6	7895.9	7909.3
5°	7929.5	7879.2	7916.0	7865.8	7862.4	7815.5	7902.6	7906.0	7882.5	7892.6
7.5°	7949.6	7902.6	7929.5	7872.5	7879.2	7822.2	7922.8	7919.4	7906.0	7929.5
10°	8023.3	7969.7	7979.8	7919.4	7936.2	7875.8	7999.9	8006.6	7993.2	8036.8
12.5°	8150.7	8077.0	8100.5	8030.0	8043.5	7983.1	8134.0	8144.0	8144.0	8214.5
15°	8325.1	8248.0	8298.3	8207.7	8211.1	8120.6	8234.6	8234.6	8248.0	8345.2
17.5°	8579.9	8486.0	8553.1	8469.3	7946.2	7748.4	8137.3	8375.4	7979.8	7946.2
20°	8895.1	8851.5	8888.4	8750.9	7902.6	6997.4	6293.3	6256.4	7037.6	7426.5
22.5°	9280.7	9237.1	9253.8	9079.5	7054.4	6417.3	6407.3	6340.2	5364.5	5096.3
25°	9733.3	9709.8	9672.9	8211.1	7292.4	6682.2	6601.7	5726.6	5166.7	5217.0
27.5°	10219.4	10149.0	8905.1	8529.6	7657.9	6947.1	6491.1	5347.8	5327.7	5374.6
30°	10762.6	10390.4	9116.4	8989.0	8083.7	7275.7	5649.5	5582.5	5582.5	5656.2
32.5°	11453.3	9703.1	9703.1	9636.1	8610.1	6387.2	5947.9	5907.7	5954.6	5984.8
35°	11349.4	10437.4	10544.7	10514.5	9324.2	6504.5	6427.4	6360.3	6370.4	6370.4
37.5°	11382.9	11419.8	11547.2	11416.4	8134.0	7014.1	6890.1	6876.7	6886.7	6910.2
40°	12435.7	12455.8	12502.7	12214.4	8740.8	7607.6	7436.6	7403.1	7436.6	7486.9
42.5°	13568.9	13625.9	13679.6	11108.0	9589.1	8281.5	8110.5	8046.8	8107.2	8160.8
45°	14910.1	14997.2	14175.8	12090.3	10548.0	9049.3	8868.3	8791.1	8828.0	8875.0
47.5°	16418.8	16556.3	13367.8	13340.9	11674.6	9957.9	9750.1	9602.5	9659.5	9656.2
50°	18122.1	15822.0	14769.2	14752.5	12931.9	10970.5	10755.9	10621.8	10665.4	10631.8
52.5°	19962.8	16254.6	16288.1	16284.7	14246.2	12060.2	11862.3	11694.7	11349.4	11667.9
55°	21847.1	17749.9	17877.3	17857.2	15624.2	13186.7	12975.5	12817.9	8375.4	7074.5
57.5°	23721.3	19312.3	19352.6	19399.5	17052.5	14273.0	13344.3	12258.0	4777.8	4754.3
60°	25572.1	20801.0	20881.5	20908.3	17823.7	11815.4	5455.1	5555.7	1445.1	1726.7
62.5°	27489.9	22269.5	22343.3	22319.8	18591.5	10987.2	5730.0	5616.0	134.1	124.1
65°	29937.5	24110.3	24006.3	23929.2	19801.9	11724.9	6155.8	6125.6	43.6	30.2
67.5°	30795.8	24529.4	24318.1	24291.3	19976.2	11882.5	6189.3	6165.9	43.6	30.2
70°	28851.2	22936.8	22574.7	22584.7	18588.1	11114.7	5773.6	5740.1	40.2	30.2
72.5°	25267.0	20257.8	20107.0	19309.0	16097.0	9776.9	5119.8	4992.4	40.2	26.8
75°	20744.0	16365.2	16029.9	15134.7	12811.2	7771.9	4020.1	3855.8	36.9	23.5
77.5°	14400.4	11476.8	10836.4	9924.4	8569.9	5153.3	2702.4	2491.2	33.5	23.5
80°	6528.0	4710.7	4734.2	3627.8	2906.9	1746.8	858.3	777.9	30.2	20.1
82.5°	1136.6	838.2	787.9	761.1	633.7	429.2	261.5	224.6	26.8	13.4
85°	395.6	318.5	352.0	415.8	368.8	258.2	160.9	154.2	16.8	6.7
87.5°	134.1	140.8	164.3	197.8	174.3	100.6	60.4	43.6	3.4	0.0
90°	13.4	16.8	16.8	16.8	10.1	0.0	0.0	0.0	0.0	0.0
92.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	3.4	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	3.4	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: CST-CA10-760-750-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)