

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: P510685

Luminaire Tested: **CST-CA6-230-760-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA6-230-760-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35685 lumens
Efficiency: N/A
Efficacy: 156.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

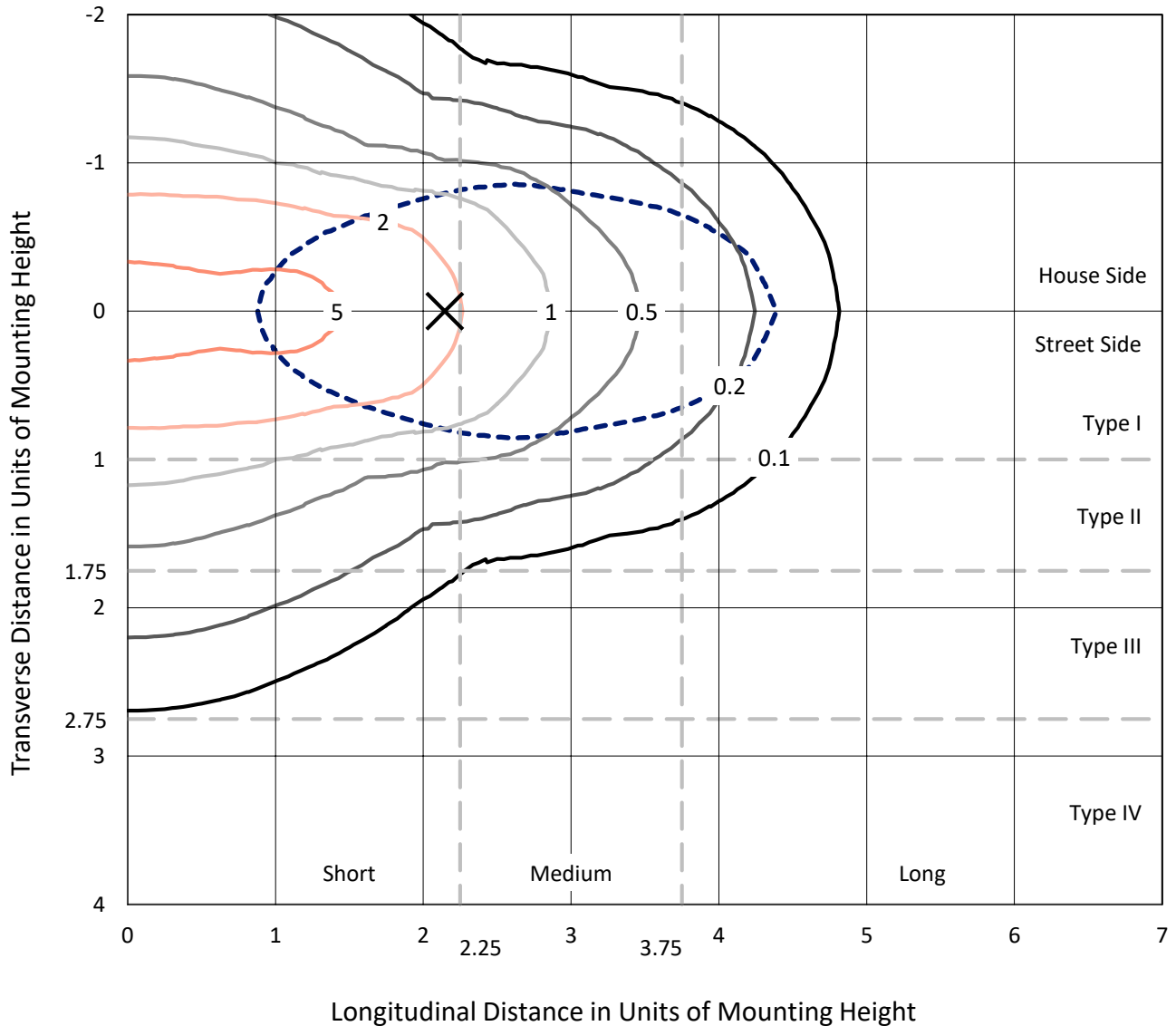
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

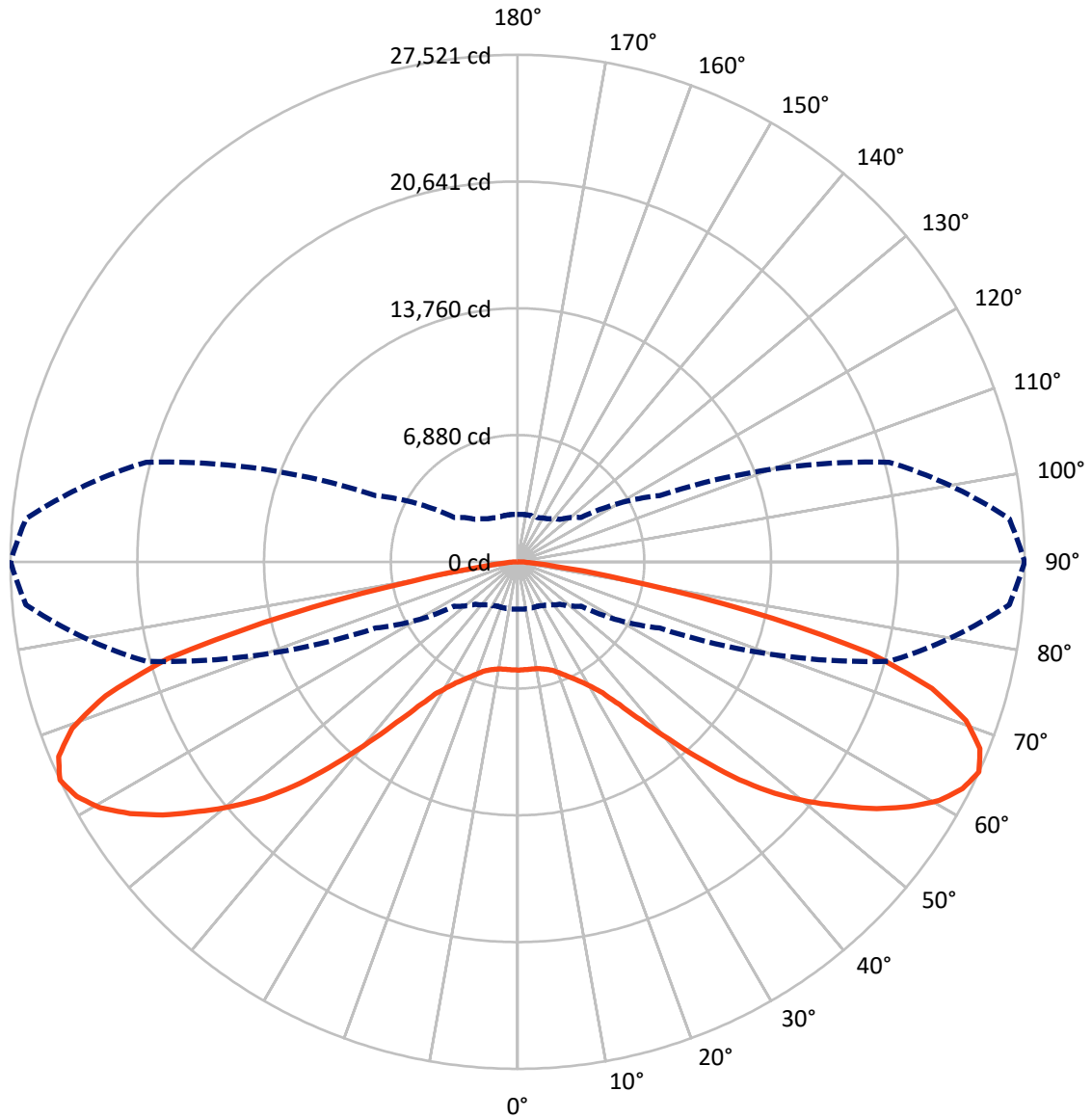
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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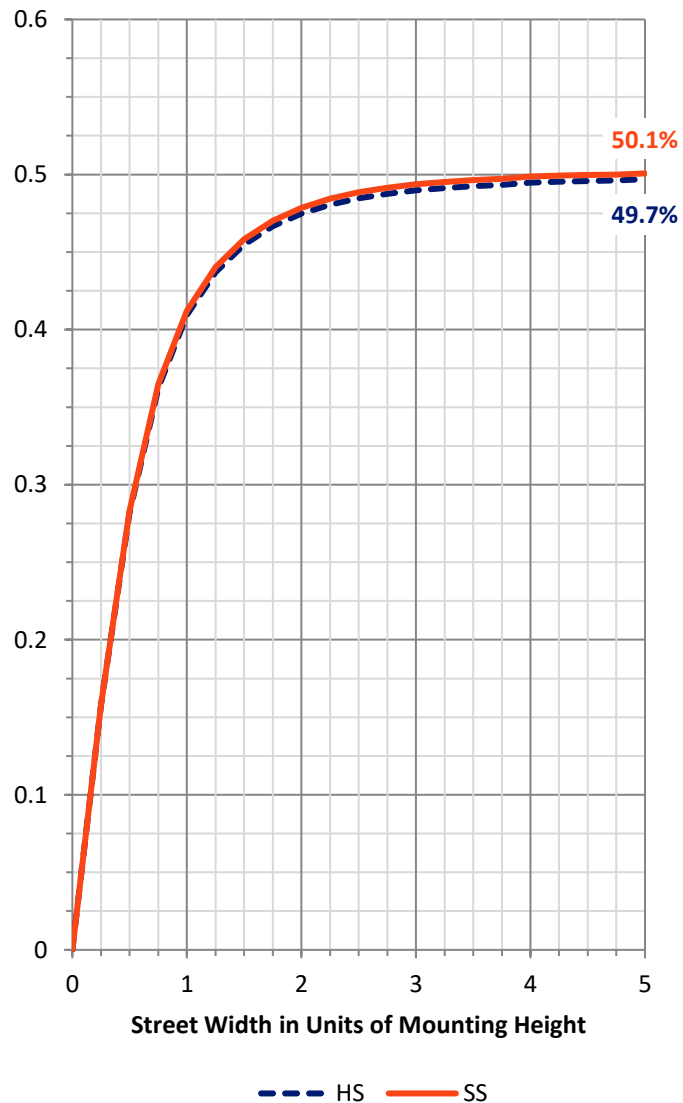
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17842.5	0.0	17842.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17842.5	0.0	17842.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35685.0	0.0	35685.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.9	1.6
10°-20°	1646.4	4.6
20°-30°	2712.0	7.6
30°-40°	3973.4	11.1
40°-50°	5875.1	16.5
50°-60°	7706.6	21.6
60°-70°	8040.1	22.5
70°-80°	4622.6	13.0
80°-90°	551.1	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	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°	35685.0	100.0
0°-180°	35685.0	100.0

Coefficient of Utilization

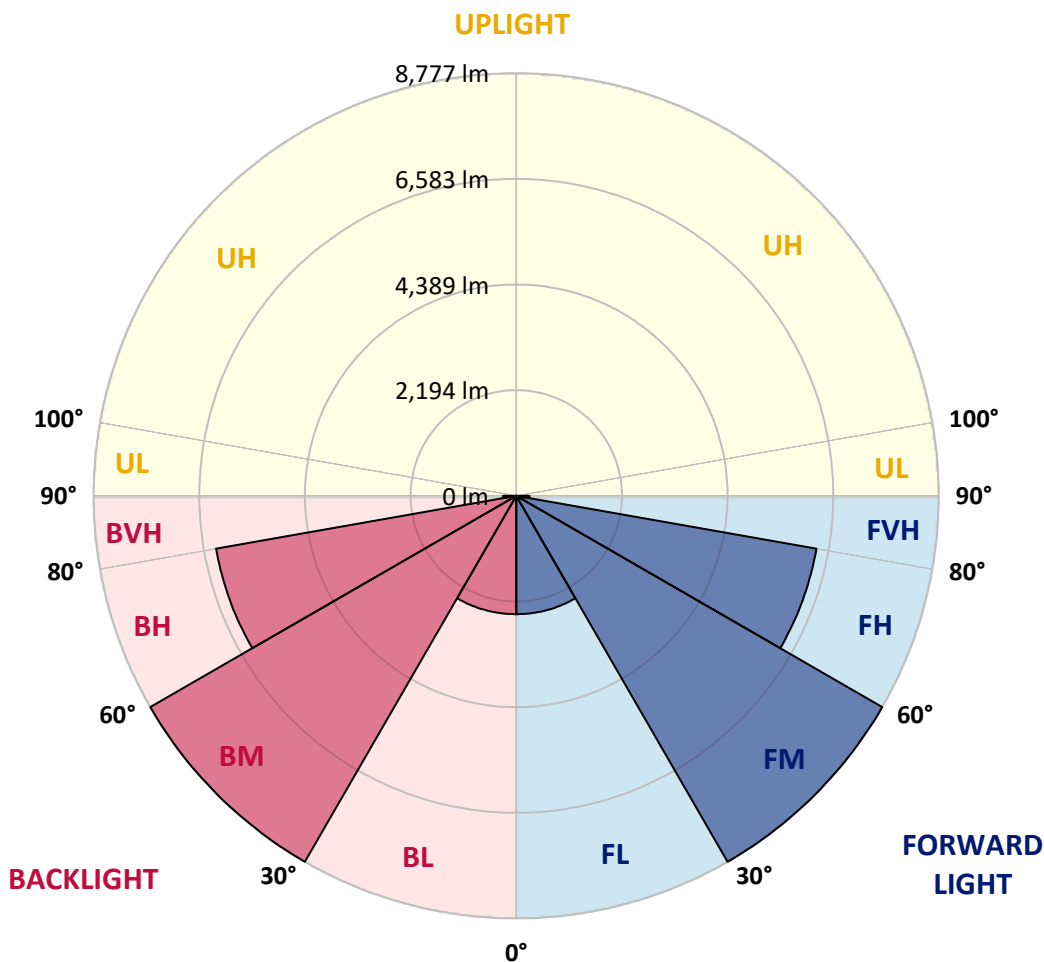


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2458.1	6.9			
FM (30°-60°)	8777.5	24.6			
FH (60°-80°)	6331.4	17.7			G3/7500
FVH (80°-90°)	275.5	0.8			G3/500
BL (0°-30°)	2458.1	6.9	B3/2500		
BM (30°-60°)	8777.5	24.6	B5		
BH (60°-80°)	6331.4	17.7	B5		G5
BVH (80°-90°)	275.5	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5879.0	5879.0	5879.0	5879.0	5879.0	5879.0	5879.0	5879.0	5879.0	5879.0	5879.0
2.5°	5877.6	5873.4	5872.0	5869.9	5873.4	5876.2	5883.2	5889.5	5888.1	5886.7	5888.1
5°	5844.8	5846.9	5847.6	5848.3	5851.1	5853.2	5863.0	5872.7	5871.3	5869.9	5876.9
7.5°	5798.8	5798.8	5797.4	5796.0	5801.6	5806.5	5816.2	5826.0	5833.7	5840.6	5851.8
10°	5731.8	5729.0	5728.3	5727.6	5733.9	5739.5	5757.6	5775.8	5791.1	5805.8	5824.6
12.5°	5650.2	5649.5	5650.9	5652.3	5665.6	5678.8	5709.5	5740.2	5770.9	5801.6	5828.8
15°	5553.3	5544.9	5551.9	5558.2	5579.8	5600.7	5660.0	5719.3	5766.0	5812.0	5865.0
17.5°	5405.4	5397.0	5407.5	5417.3	5460.5	5503.8	5587.5	5670.5	5758.3	5846.2	5922.2
20°	5181.5	5181.5	5208.0	5234.5	5307.8	5381.0	5496.1	5610.5	5729.0	5847.6	5957.8
22.5°	4943.0	4936.0	4992.5	5049.0	5136.9	5224.1	5369.1	5514.2	5671.2	5827.4	5978.7
25°	4673.8	4685.6	4756.8	4827.2	4950.7	5073.4	5252.0	5429.8	5627.2	5824.6	6034.5
27.5°	4446.4	4448.5	4534.3	4620.1	4774.9	4929.0	5146.0	5362.9	5603.5	5844.1	6108.5
30°	4211.3	4249.7	4340.4	4430.3	4603.3	4776.3	5038.5	5300.1	5585.4	5870.6	6192.9
32.5°	4030.7	4039.8	4142.3	4244.1	4424.8	4605.4	4910.2	5215.0	5557.5	5899.9	6291.9
35°	3860.5	3875.2	3970.7	4066.3	4254.6	4442.2	4776.3	5109.7	5519.1	5927.8	6399.3
37.5°	3709.2	3727.3	3818.0	3908.6	4090.0	4271.3	4625.6	4980.0	5459.8	5939.7	6517.2
40°	3598.3	3613.6	3690.3	3767.1	3931.0	4094.2	4465.2	4835.6	5376.8	5918.1	6609.9
42.5°	3518.1	3525.0	3587.1	3649.2	3795.6	3942.1	4309.7	4676.6	5268.7	5860.9	6681.8
45°	3409.2	3424.6	3486.0	3546.6	3678.5	3809.6	4145.8	4482.0	5108.3	5733.9	6682.5
47.5°	3328.3	3338.1	3396.0	3453.2	3575.9	3698.7	4000.7	4302.7	4926.9	5550.5	6607.2
50°	3269.1	3264.2	3317.9	3370.9	3474.8	3578.0	3847.3	4115.8	4702.4	5288.9	6418.8
52.5°	3184.7	3190.2	3233.5	3276.7	3366.7	3456.0	3697.3	3937.9	4453.4	4968.1	6113.3
55°	3071.7	3097.5	3133.7	3169.3	3248.1	3326.9	3543.9	3760.8	4204.4	4647.3	5720.0
57.5°	2960.8	2979.6	3010.3	3041.0	3103.1	3164.4	3368.8	3573.2	3942.1	4311.1	5223.4
60°	2870.1	2875.0	2894.5	2913.3	2960.8	3008.2	3177.0	3345.8	3668.0	3989.5	4728.2
62.5°	2752.9	2754.3	2767.6	2780.8	2810.1	2838.7	2971.2	3103.1	3377.9	3652.7	4235.8
65°	2569.5	2580.6	2593.2	2605.1	2624.6	2643.4	2744.6	2845.7	3051.4	3257.2	3727.3
67.5°	2384.0	2374.2	2388.8	2403.5	2406.3	2409.1	2485.8	2562.5	2731.3	2900.1	3278.1
70°	2082.0	2089.6	2088.2	2086.1	2074.3	2061.7	2115.4	2169.1	2258.4	2347.0	2620.4
72.5°	1596.5	1586.1	1559.5	1532.3	1519.8	1507.2	1570.0	1632.1	1697.6	1763.2	1960.6
75°	975.8	1005.8	1060.9	1115.3	1136.2	1157.1	1153.6	1149.4	1143.9	1138.3	1384.5
77.5°	661.2	677.2	689.8	701.7	732.3	762.3	797.2	832.1	831.4	830.7	985.5
80°	420.6	408.0	413.6	419.2	436.6	454.1	507.1	559.4	574.0	588.0	694.7
82.5°	263.6	265.7	272.7	279.0	259.5	239.9	281.1	321.5	356.4	390.6	440.1
85°	170.9	193.9	190.4	186.9	163.9	140.9	177.2	213.4	230.2	246.2	265.0
87.5°	55.1	64.2	66.3	67.7	67.7	67.0	74.6	82.3	85.1	87.2	94.2
90°	0.0	0.0	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	0.0
95°	0.0	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	0.0
100°	0.0	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	0.0
105°	0.0	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	0.0
110°	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):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	5879.0	5879.0	5879.0	5879.0	5879.0	5879.0	5879.0	5879.0
2.5°	5888.8	5881.8	5874.8	5872.7	5870.6	5869.2	5867.8	5866.4
5°	5883.2	5881.8	5880.4	5874.8	5869.2	5868.5	5867.8	5869.9
7.5°	5863.0	5863.0	5863.0	5869.2	5875.5	5872.7	5869.2	5873.4
10°	5842.7	5859.5	5876.2	5881.1	5886.0	5889.5	5892.9	5896.4
12.5°	5856.0	5884.6	5912.5	5928.5	5944.6	5952.9	5960.6	5962.7
15°	5918.1	5954.3	5990.6	6012.2	6033.1	6047.1	6061.0	6064.5
17.5°	5998.3	6054.1	6109.2	6140.6	6171.9	6188.0	6203.3	6198.4
20°	6067.3	6144.0	6220.8	6287.7	6354.7	6391.6	6427.9	6432.1
22.5°	6129.4	6258.4	6387.5	6473.9	6559.7	6625.3	6690.9	6697.8
25°	6243.8	6412.6	6581.4	6719.5	6857.6	6917.5	6976.8	7011.7
27.5°	6372.1	6598.1	6824.1	7008.9	7193.7	7285.1	7375.8	7380.7
30°	6514.4	6801.1	7087.0	7335.3	7582.9	7694.5	7805.4	7864.0
32.5°	6683.2	7047.3	7410.6	7737.1	8063.5	8233.0	8402.5	8461.7
35°	6870.1	7342.3	7813.8	8263.7	8712.8	9037.2	9361.5	9517.7
37.5°	7094.7	7695.9	8297.1	8973.0	9648.8	10201.9	10754.3	10912.0
40°	7301.8	8075.3	8848.1	9786.9	10725.7	11603.2	12479.9	12650.8
42.5°	7502.7	8438.7	9374.7	10655.3	11935.9	13110.4	14284.9	14729.2
45°	7630.4	8762.4	9893.7	11582.2	13270.8	14883.4	16495.2	16868.4
47.5°	7663.1	8993.2	10323.3	12415.0	14506.7	16404.6	18301.7	18780.8
50°	7548.7	9113.2	10677.6	13438.2	16198.1	18130.8	20062.8	20456.2
52.5°	7258.6	9074.8	10891.0	14231.2	17571.4	19617.1	21662.8	22019.9
55°	6792.7	8841.9	10891.0	14884.1	18876.4	20998.1	23119.1	23661.8
57.5°	6135.7	8396.9	10658.1	15320.0	19981.9	22286.3	24590.8	25078.3
60°	5466.8	7867.5	10267.5	15560.6	20853.7	23294.9	25736.0	26305.2
62.5°	4818.1	7148.4	9478.0	15308.1	21138.3	23715.5	26291.9	27110.8
65°	4197.4	6349.8	8502.2	14692.3	20881.6	23834.7	26787.1	27520.9
67.5°	3656.2	5682.3	7708.5	13660.0	19611.5	22879.9	26147.6	27061.9
70°	2893.8	4758.2	6622.5	11829.8	17037.2	20864.9	24692.6	25821.1
72.5°	2158.0	3739.2	5319.6	9305.7	13291.7	17693.5	22094.5	23514.6
75°	1630.0	2986.6	4343.2	7355.5	10367.9	14094.5	17821.1	19721.7
77.5°	1140.4	2158.0	3174.9	5422.2	7669.4	9732.5	11795.7	12808.4
80°	800.7	1365.0	1928.5	3009.6	4090.0	5005.1	5919.5	5846.9
82.5°	488.9	726.1	962.5	1305.7	1648.8	1869.9	2091.0	2081.3
85°	283.9	345.2	405.9	502.9	599.8	709.3	818.8	728.2
87.5°	100.4	100.4	100.4	115.1	129.7	178.6	227.4	239.9
90°	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
95°	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
100°	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
105°	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
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: CST-CA6-230-760-U-T1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	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
117.5°	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
122.5°	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
127.5°	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
132.5°	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
137.5°	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
142.5°	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
147.5°	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
152.5°	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
157.5°	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
162.5°	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
167.5°	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
172.5°	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
177.5°	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

(END OF REPORT)