

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: P510445

Luminaire Tested: **CST-CA10-210-760-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510445
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-CA10-210-760-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36148 lumens
Efficiency: N/A
Efficacy: 169.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

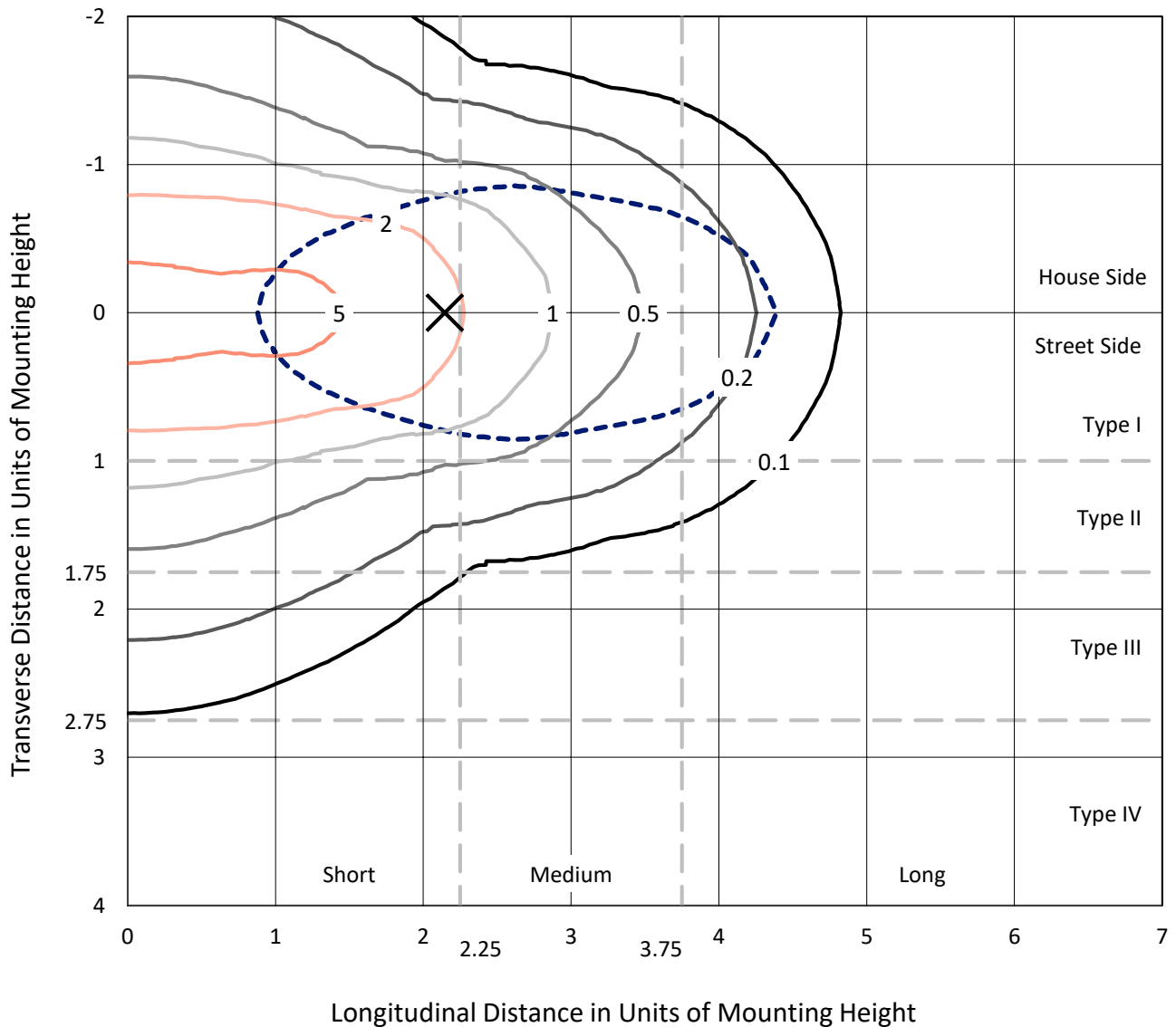
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

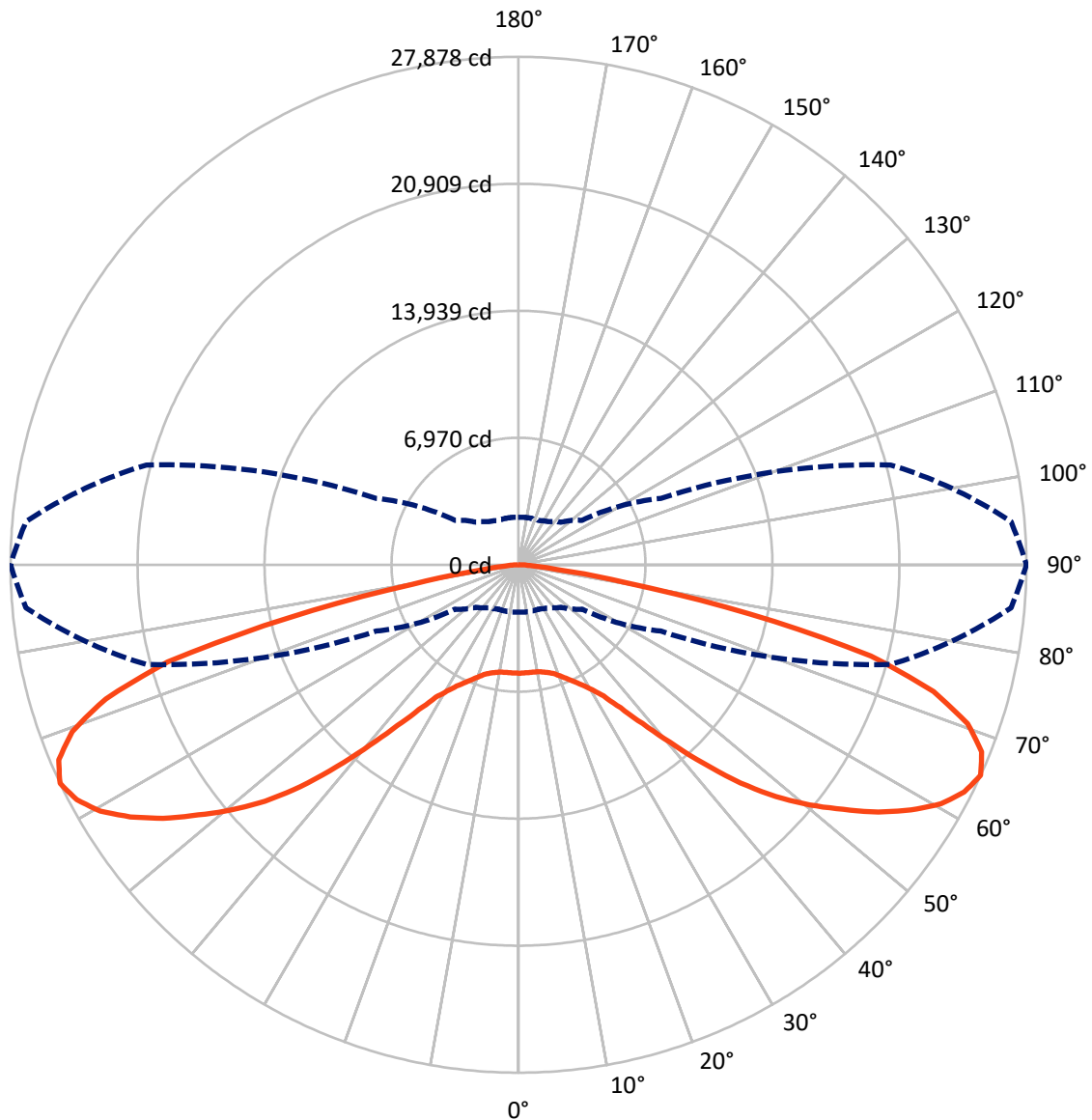
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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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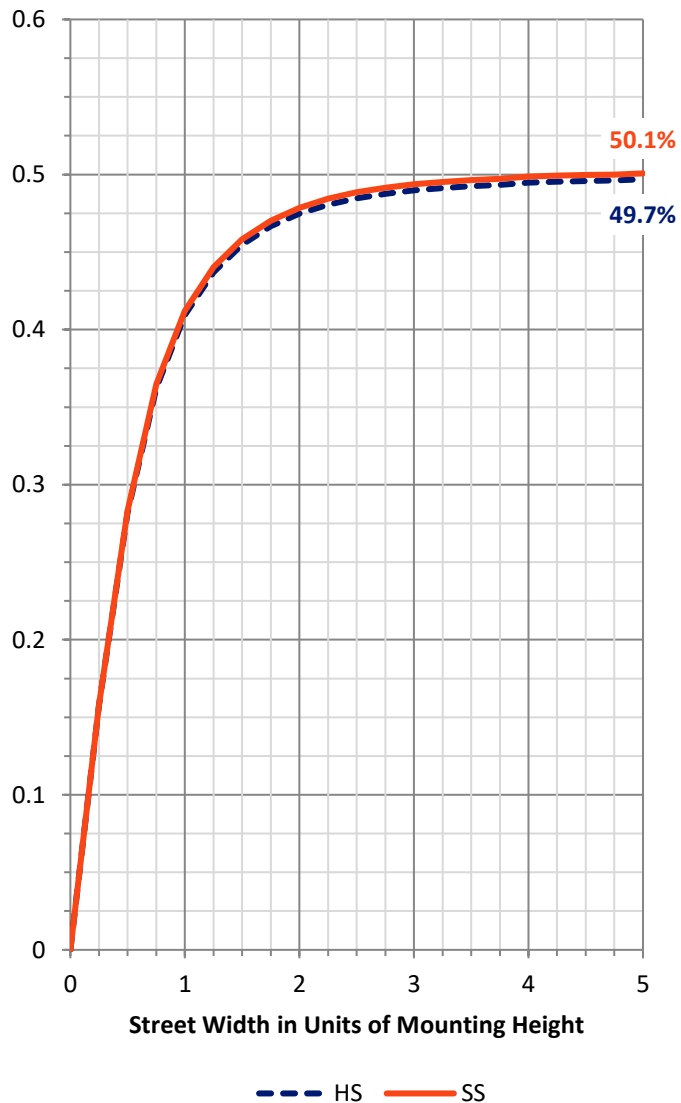
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18074.0	0.0	18074.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18074.0	0.0	18074.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36148.0	0.0	36148.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.1	1.6
10°-20°	1667.7	4.6
20°-30°	2747.1	7.6
30°-40°	4024.9	11.1
40°-50°	5951.3	16.5
50°-60°	7806.5	21.6
60°-70°	8144.4	22.5
70°-80°	4682.6	13.0
80°-90°	558.2	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°	36148.0	100.0
0°-180°	36148.0	100.0

Coefficient of Utilization

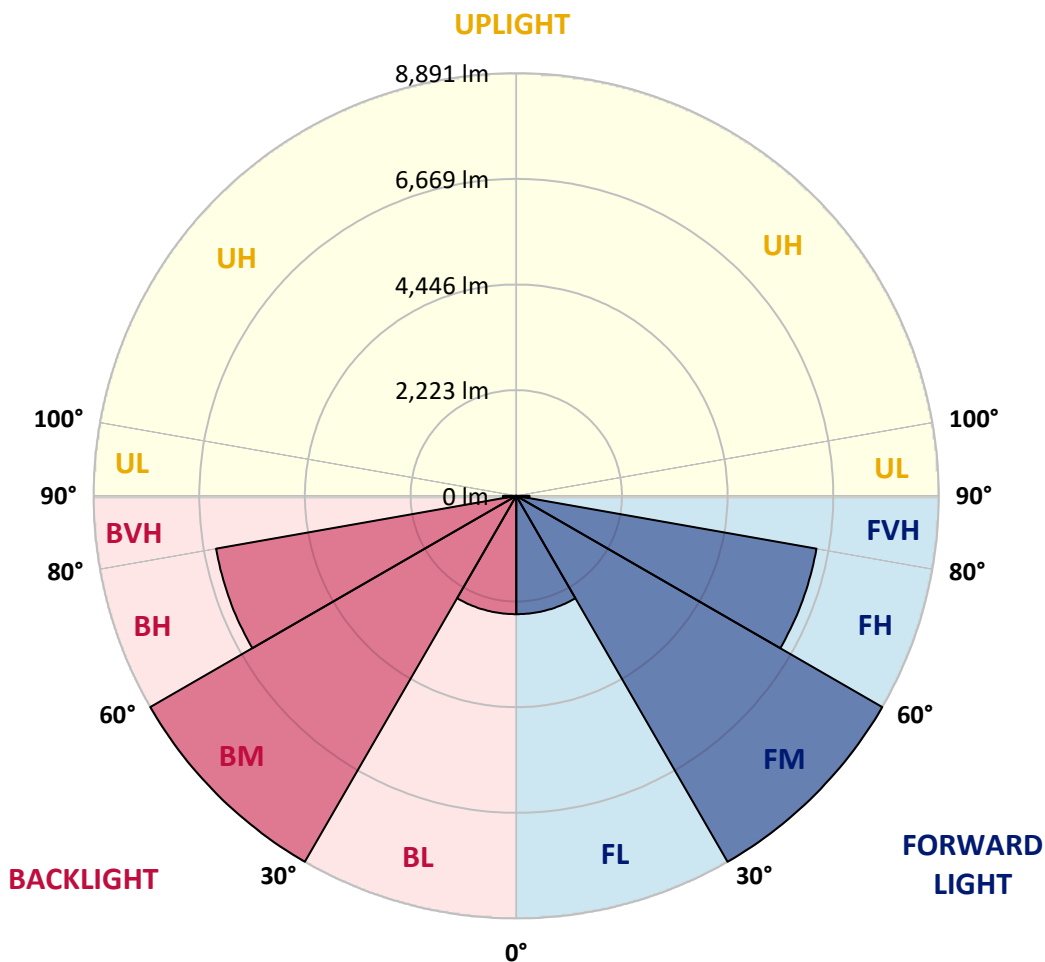


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2490.0	6.9			
FM (30°-60°)	8891.4	24.6			
FH (60°-80°)	6413.5	17.7			G3/7500
FVH (80°-90°)	279.1	0.8			G3/500
BL (0°-30°)	2490.0	6.9	B3/2500		
BM (30°-60°)	8891.4	24.6	B5		
BH (60°-80°)	6413.5	17.7	B5		G5
BVH (80°-90°)	279.1	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°	5955.3	5955.3	5955.3	5955.3	5955.3	5955.3	5955.3	5955.3	5955.3	5955.3	5955.3
2.5°	5953.9	5949.6	5948.2	5946.1	5949.6	5952.4	5959.5	5965.9	5964.5	5963.0	5964.5
5°	5920.7	5922.8	5923.5	5924.2	5927.0	5929.1	5939.0	5948.9	5947.5	5946.1	5953.2
7.5°	5874.0	5874.0	5872.6	5871.2	5876.9	5881.8	5891.7	5901.6	5909.4	5916.4	5927.7
10°	5806.2	5803.4	5802.7	5802.0	5808.3	5814.0	5832.3	5850.7	5866.3	5881.1	5900.2
12.5°	5723.5	5722.8	5724.2	5725.7	5739.1	5752.5	5783.6	5814.7	5845.8	5876.9	5904.4
15°	5625.3	5616.9	5623.9	5630.3	5652.2	5673.4	5733.4	5793.5	5840.8	5887.4	5941.1
17.5°	5475.5	5467.1	5477.7	5487.6	5531.4	5575.2	5659.9	5744.0	5833.0	5922.1	5999.1
20°	5248.8	5248.8	5275.6	5302.4	5376.6	5450.8	5567.4	5683.3	5803.4	5923.5	6035.1
22.5°	5007.1	5000.1	5057.3	5114.5	5203.5	5291.9	5438.8	5585.8	5744.7	5903.0	6056.3
25°	4734.4	4746.4	4818.5	4889.8	5014.9	5139.2	5320.1	5500.3	5700.2	5900.2	6112.8
27.5°	4504.1	4506.2	4593.1	4680.0	4836.9	4993.0	5212.7	5432.4	5676.2	5919.9	6187.7
30°	4266.0	4304.8	4396.7	4487.8	4663.0	4838.3	5103.9	5368.9	5657.8	5946.8	6273.2
32.5°	4083.0	4092.2	4196.0	4299.2	4482.2	4665.2	4973.9	5282.7	5629.6	5976.5	6373.5
35°	3910.6	3925.4	4022.2	4119.0	4309.8	4499.8	4838.3	5176.0	5590.7	6004.7	6482.3
37.5°	3757.3	3775.7	3867.5	3959.4	4143.0	4326.7	4685.7	5044.6	5530.7	6016.7	6601.7
40°	3644.9	3660.5	3738.2	3815.9	3982.0	4147.3	4523.2	4898.3	5446.6	5994.8	6695.7
42.5°	3563.7	3570.8	3633.6	3696.5	3844.9	3993.3	4365.6	4737.2	5337.1	5936.9	6768.5
45°	3453.5	3469.0	3531.2	3592.7	3726.2	3859.0	4199.6	4540.1	5174.6	5808.3	6769.2
47.5°	3371.5	3381.4	3440.1	3498.0	3622.3	3746.7	4052.6	4358.5	4990.9	5622.5	6692.9
50°	3311.5	3306.5	3360.9	3414.6	3519.9	3624.5	3897.2	4169.2	4763.4	5357.6	6502.1
52.5°	3226.0	3231.6	3275.4	3319.2	3410.4	3500.8	3745.3	3989.0	4511.1	5032.6	6192.7
55°	3111.5	3137.7	3174.4	3210.4	3290.3	3370.1	3589.8	3809.6	4258.9	4707.6	5794.2
57.5°	2999.2	3018.3	3049.3	3080.4	3143.3	3205.5	3412.5	3619.5	3993.3	4367.0	5291.1
60°	2907.3	2912.3	2932.1	2951.1	2999.2	3047.2	3218.2	3389.2	3715.6	4041.3	4789.5
62.5°	2788.6	2790.1	2803.5	2816.9	2846.6	2875.5	3009.8	3143.3	3421.7	3700.1	4290.7
65°	2602.8	2614.1	2626.8	2638.9	2658.6	2677.7	2780.2	2882.6	3091.0	3299.5	3775.7
67.5°	2414.9	2405.0	2419.8	2434.7	2437.5	2440.3	2518.0	2595.8	2766.7	2937.7	3320.7
70°	2109.0	2116.7	2115.3	2113.2	2101.2	2088.5	2142.9	2197.3	2287.7	2377.4	2654.4
72.5°	1617.2	1606.6	1579.8	1552.2	1539.5	1526.8	1590.4	1653.3	1719.7	1786.1	1986.0
75°	988.4	1018.8	1074.6	1129.7	1150.9	1172.1	1168.6	1164.3	1158.7	1153.0	1402.4
77.5°	669.8	686.0	698.8	710.8	741.8	772.2	807.6	842.9	842.2	841.5	998.3
80°	426.0	413.3	419.0	424.6	442.3	459.9	513.6	566.6	581.5	595.6	703.7
82.5°	267.1	269.2	276.3	282.6	262.8	243.0	284.7	325.7	361.0	395.7	445.8
85°	173.1	196.4	192.9	189.3	166.0	142.7	179.5	216.2	233.2	249.4	268.5
87.5°	55.8	65.0	67.1	68.5	68.5	67.8	75.6	83.4	86.2	88.3	95.4
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°	5955.3	5955.3	5955.3	5955.3	5955.3	5955.3	5955.3	5955.3
2.5°	5965.2	5958.1	5951.0	5948.9	5946.8	5945.4	5944.0	5942.6
5°	5959.5	5958.1	5956.7	5951.0	5945.4	5944.7	5944.0	5946.1
7.5°	5939.0	5939.0	5939.0	5945.4	5951.7	5948.9	5945.4	5949.6
10°	5918.5	5935.5	5952.4	5957.4	5962.3	5965.9	5969.4	5972.9
12.5°	5932.0	5960.9	5989.2	6005.4	6021.7	6030.2	6037.9	6040.1
15°	5994.8	6031.6	6068.3	6090.2	6111.4	6125.5	6139.7	6143.2
17.5°	6076.1	6132.6	6188.4	6220.2	6252.0	6268.3	6283.8	6278.9
20°	6146.0	6223.8	6301.5	6369.3	6437.1	6474.6	6511.3	6515.5
22.5°	6208.9	6339.6	6470.3	6557.9	6644.8	6711.3	6777.7	6784.7
25°	6324.8	6495.8	6666.7	6806.6	6946.5	7007.3	7067.3	7102.7
27.5°	6454.8	6683.7	6912.6	7099.8	7287.1	7379.6	7471.5	7476.4
30°	6598.9	6889.3	7179.0	7430.5	7681.3	7794.4	7906.7	7966.0
32.5°	6769.9	7138.7	7506.8	7837.5	8168.1	8339.8	8511.5	8571.5
35°	6959.2	7437.6	7915.2	8370.9	8825.9	9154.4	9482.9	9641.2
37.5°	7186.7	7795.8	8404.8	9089.4	9774.0	10334.3	10893.9	11053.5
40°	7396.6	8180.1	8962.9	9913.9	10864.9	11753.7	12641.8	12814.9
42.5°	7600.1	8548.2	9496.4	10793.5	12090.7	13280.5	14470.3	14920.3
45°	7729.4	8876.0	10022.0	11732.5	13443.0	15076.5	16709.3	17087.2
47.5°	7762.6	9109.9	10457.2	12576.1	14695.0	16617.4	18539.1	19024.5
50°	7646.7	9231.4	10816.1	13612.6	16408.3	18366.0	20323.1	20721.6
52.5°	7352.8	9192.6	11032.3	14415.9	17799.4	19871.6	21943.9	22305.6
55°	6880.8	8956.6	11032.3	15077.2	19121.3	21270.6	23419.1	23968.8
57.5°	6215.3	8505.8	10796.4	15518.8	20241.2	22575.5	24909.9	25403.7
60°	5537.7	7969.6	10400.7	15762.5	21124.3	23597.1	26070.0	26646.5
62.5°	4880.7	7241.1	9600.9	15506.7	21412.6	24023.2	26633.1	27462.5
65°	4251.9	6432.2	8612.5	14882.9	21152.6	24144.0	27134.7	27878.0
67.5°	3703.6	5756.0	7808.5	13837.2	19866.0	23176.8	26486.8	27413.1
70°	2931.4	4819.9	6708.4	11983.3	17258.2	21135.6	25013.0	26156.2
72.5°	2186.0	3787.7	5388.6	9426.4	13464.2	17923.1	22381.2	23819.7
75°	1651.1	3025.3	4399.5	7451.0	10502.5	14277.4	18052.3	19977.6
77.5°	1155.2	2186.0	3216.1	5492.5	7768.9	9858.8	11948.7	12974.6
80°	811.1	1382.7	1953.5	3048.6	4143.0	5070.0	5996.3	5922.8
82.5°	495.3	735.5	975.0	1322.6	1670.2	1894.2	2118.2	2108.3
85°	287.6	349.7	411.2	509.4	607.6	718.5	829.5	737.6
87.5°	101.7	101.7	101.7	116.6	131.4	180.9	230.3	243.0
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-CA10-210-760-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)