

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: P510785

Luminaire Tested: **CST-CA8-330-740-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510785
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-CA8-330-740-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50862 lumens
Efficiency: N/A
Efficacy: 153.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

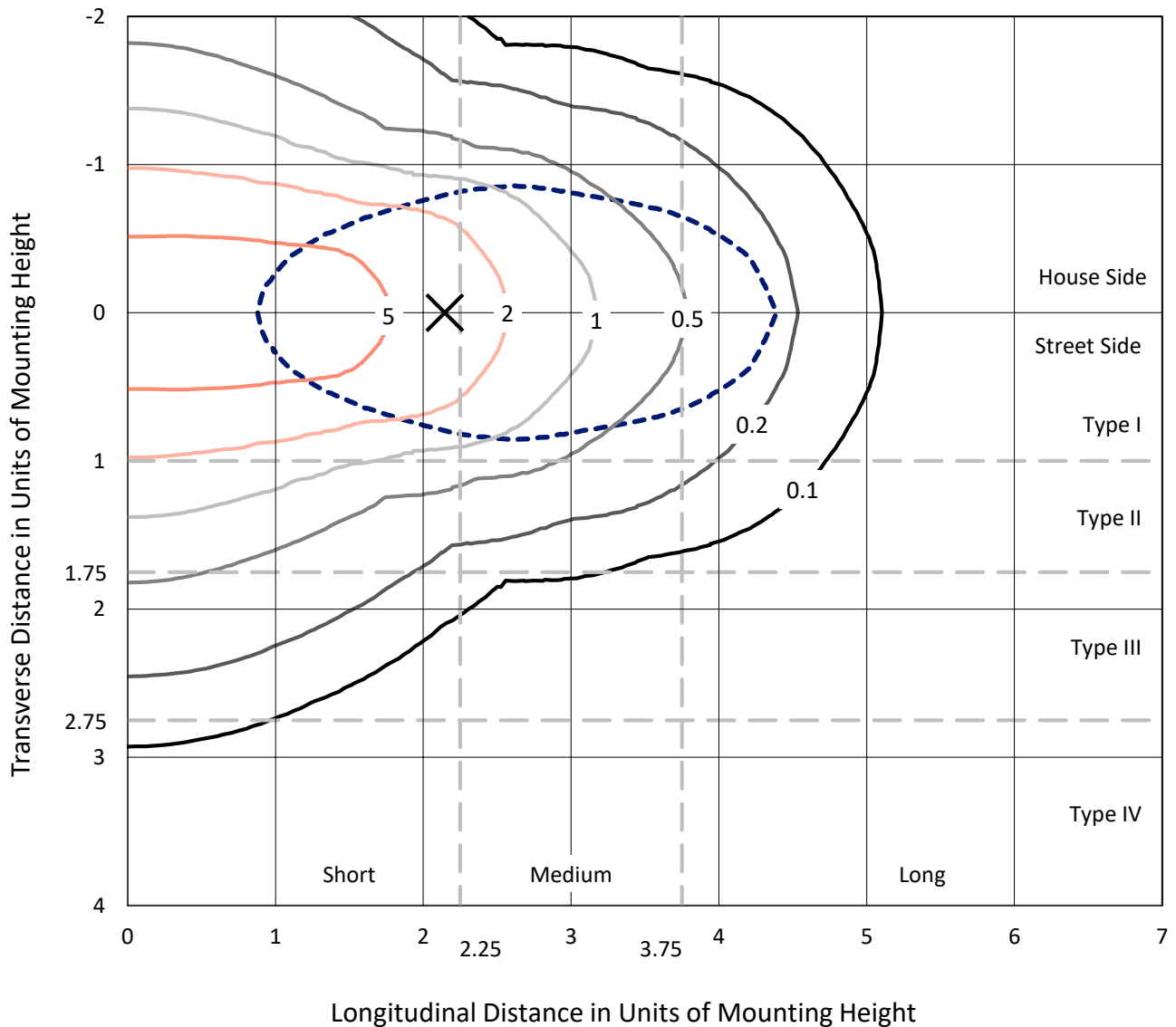
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

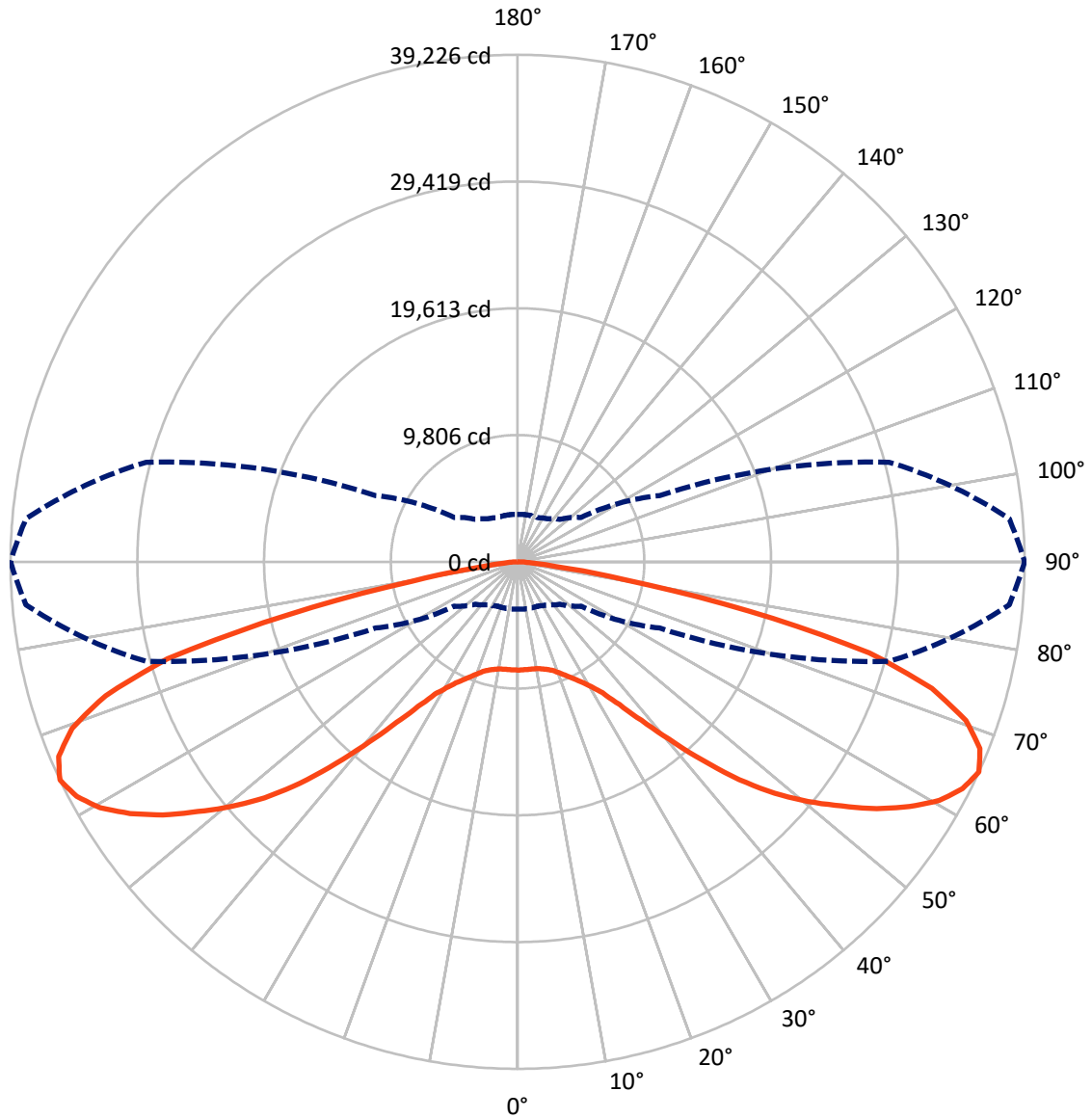
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 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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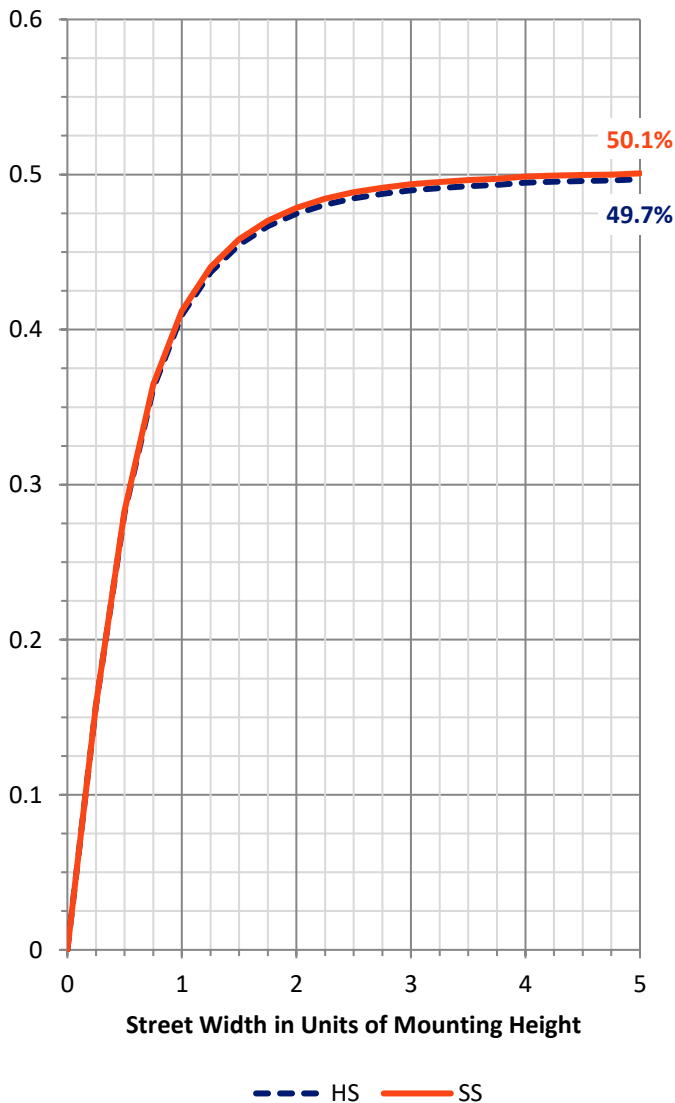
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25431.0	0.0	25431.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25431.0	0.0	25431.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	50862.0	0.0	50862.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	795.2	1.6
10°-20°	2346.6	4.6
20°-30°	3865.4	7.6
30°-40°	5663.3	11.1
40°-50°	8373.7	16.5
50°-60°	10984.2	21.6
60°-70°	11459.6	22.5
70°-80°	6588.6	13.0
80°-90°	785.4	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°	50862.0	100.0
0°-180°	50862.0	100.0

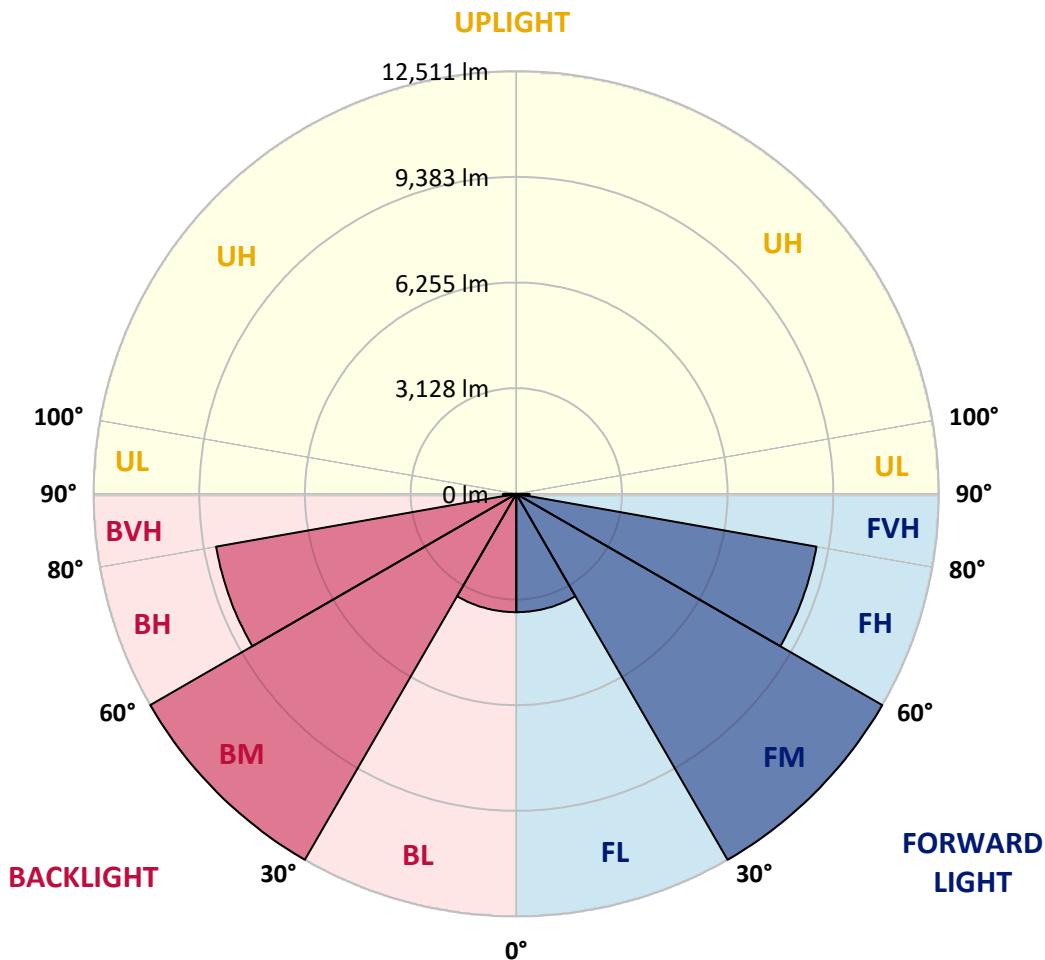


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3503.6	6.9			
FM (30°-60°)	12510.6	24.6			
FH (60°-80°)	9024.1	17.7			G4/12000
FVH (80°-90°)	392.7	0.8			G3/500
BL (0°-30°)	3503.6	6.9	B4/5000		
BM (30°-60°)	12510.6	24.6	B5		
BH (60°-80°)	9024.1	17.7	B5		G5
BVH (80°-90°)	392.7	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°	8379.4	8379.4	8379.4	8379.4	8379.4	8379.4	8379.4	8379.4	8379.4	8379.4	8379.4
2.5°	8377.4	8371.4	8369.4	8366.4	8371.4	8375.4	8385.3	8394.3	8392.3	8390.3	8392.3
5°	8330.7	8333.6	8334.6	8335.6	8339.6	8342.6	8356.5	8370.4	8368.4	8366.4	8376.4
7.5°	8265.0	8265.0	8263.1	8261.1	8269.0	8276.0	8289.9	8303.8	8314.7	8324.7	8340.6
10°	8169.6	8165.6	8164.6	8163.6	8172.6	8180.5	8206.4	8232.2	8254.1	8275.0	8301.8
12.5°	8053.3	8052.3	8054.3	8056.3	8075.2	8094.1	8137.8	8181.5	8225.3	8269.0	8307.8
15°	7915.1	7903.2	7913.1	7922.1	7952.9	7982.7	8067.2	8151.7	8218.3	8283.9	8359.5
17.5°	7704.4	7692.4	7707.3	7721.3	7782.9	7844.5	7963.8	8082.1	8207.4	8332.6	8441.0
20°	7385.3	7385.3	7423.0	7460.8	7565.2	7669.6	7833.6	7996.6	8165.6	8334.6	8491.7
22.5°	7045.3	7035.3	7115.8	7196.4	7321.6	7445.9	7652.7	7859.4	8083.1	8305.8	8521.5
25°	6661.5	6678.4	6779.8	6880.2	7056.2	7231.2	7485.7	7739.2	8020.5	8301.8	8601.1
27.5°	6337.5	6340.4	6462.7	6585.0	6805.7	7025.4	7334.6	7643.7	7986.7	8329.7	8706.4
30°	6002.4	6057.1	6186.4	6314.6	6561.1	6807.7	7181.5	7554.3	7960.8	8367.4	8826.7
32.5°	5745.0	5757.9	5904.0	6049.2	6306.6	6564.1	6998.5	7433.0	7921.1	8409.2	8967.9
35°	5502.4	5523.3	5659.5	5795.7	6064.1	6331.5	6807.7	7282.9	7866.4	8449.0	9121.0
37.5°	5286.7	5312.5	5441.8	5571.0	5829.5	6087.9	6592.9	7098.0	7781.9	8465.9	9289.0
40°	5128.6	5150.5	5259.8	5369.2	5602.8	5835.4	6364.3	6892.2	7663.6	8435.0	9421.2
42.5°	5014.3	5024.2	5112.7	5201.2	5410.0	5618.7	6142.6	6665.5	7509.5	8353.5	9523.6
45°	4859.2	4881.1	4968.6	5055.1	5242.9	5429.8	5909.0	6388.2	7280.9	8172.6	9524.6
47.5°	4743.9	4757.8	4840.3	4921.8	5096.8	5271.8	5702.2	6132.7	7022.4	7911.1	9417.2
50°	4659.4	4652.4	4729.0	4804.5	4952.7	5099.8	5483.5	5866.3	6702.3	7538.3	9148.8
52.5°	4539.1	4547.1	4608.7	4670.3	4798.6	4925.8	5269.8	5612.8	6347.4	7081.1	8713.4
55°	4378.1	4414.8	4466.5	4517.2	4629.6	4741.9	5051.1	5360.2	5992.5	6623.8	8152.7
57.5°	4220.0	4246.8	4290.6	4334.3	4422.8	4510.3	4801.6	5092.8	5618.7	6144.6	7444.9
60°	4090.8	4097.7	4125.6	4152.4	4220.0	4287.6	4528.2	4768.8	5228.0	5686.3	6739.1
62.5°	3923.8	3925.7	3944.6	3963.5	4005.3	4046.0	4234.9	4422.8	4814.5	5206.2	6037.2
65°	3662.3	3678.2	3696.1	3713.0	3740.8	3767.7	3911.8	4056.0	4349.2	4642.5	5312.5
67.5°	3397.9	3384.0	3404.8	3425.7	3429.7	3433.7	3543.0	3652.4	3892.9	4133.5	4672.3
70°	2967.4	2978.4	2976.4	2973.4	2956.5	2938.6	3015.1	3091.7	3218.9	3345.2	3734.9
72.5°	2275.5	2260.6	2222.8	2184.1	2166.2	2148.3	2237.7	2326.2	2419.7	2513.1	2794.4
75°	1390.8	1433.5	1512.0	1589.6	1619.4	1649.2	1644.3	1638.3	1630.3	1622.4	1973.3
77.5°	942.4	965.3	983.2	1000.1	1043.8	1086.6	1136.3	1186.0	1185.0	1184.0	1404.7
80°	599.4	581.6	589.5	597.5	622.3	647.2	722.7	797.3	818.2	838.0	990.1
82.5°	375.8	378.8	388.7	397.6	369.8	342.0	400.6	458.3	508.0	556.7	627.3
85°	243.6	276.4	271.4	266.4	233.6	200.8	252.5	304.2	328.1	350.9	377.8
87.5°	78.5	91.5	94.4	96.4	96.4	95.4	106.4	117.3	121.3	124.3	134.2
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°	8379.4	8379.4	8379.4	8379.4	8379.4	8379.4	8379.4	8379.4
2.5°	8393.3	8383.3	8373.4	8370.4	8367.4	8365.4	8363.5	8361.5
5°	8385.3	8383.3	8381.4	8373.4	8365.4	8364.5	8363.5	8366.4
7.5°	8356.5	8356.5	8356.5	8365.4	8374.4	8370.4	8365.4	8371.4
10°	8327.7	8351.5	8375.4	8382.3	8389.3	8394.3	8399.2	8404.2
12.5°	8346.6	8387.3	8427.1	8449.9	8472.8	8484.7	8495.7	8498.7
15°	8435.0	8486.7	8538.4	8569.2	8599.1	8618.9	8638.8	8643.8
17.5°	8549.4	8628.9	8707.4	8752.2	8796.9	8819.8	8841.6	8834.7
20°	8647.8	8757.1	8866.5	8961.9	9057.3	9110.0	9161.7	9167.7
22.5°	8736.2	8920.2	9104.1	9227.3	9349.6	9443.1	9536.5	9546.5
25°	8899.3	9139.9	9380.4	9577.3	9774.1	9859.6	9944.1	9993.8
27.5°	9082.2	9404.3	9726.4	9989.8	10253.3	10383.5	10512.7	10519.7
30°	9285.0	9693.6	10101.2	10455.1	10808.0	10967.0	11125.1	11208.6
32.5°	9525.6	10044.5	10562.4	11027.7	11492.9	11734.5	11976.1	12060.6
35°	9792.0	10465.0	11137.0	11778.2	12418.4	12880.7	13343.0	13565.6
37.5°	10112.1	10969.0	11825.9	12789.2	13752.5	14540.9	15328.2	15552.9
40°	10407.4	11509.8	12611.3	13949.4	15287.4	16538.0	17787.6	18031.2
42.5°	10693.7	12027.8	13361.8	15187.0	17012.2	18686.3	20360.4	20993.6
45°	10875.6	12489.0	14101.5	16508.2	18915.0	21213.3	23510.7	24042.6
47.5°	10922.3	12818.1	14713.8	17695.2	20676.5	23381.5	26085.5	26768.4
50°	10759.3	12989.1	15218.8	19153.5	23087.2	25841.9	28595.6	29156.3
52.5°	10345.7	12934.4	15523.0	20283.8	25044.6	27960.4	30876.1	31385.1
55°	9681.6	12602.3	15523.0	21214.3	26904.6	29928.7	32951.8	33725.2
57.5°	8745.2	11968.1	15191.0	21835.7	28480.3	31764.8	35049.4	35744.3
60°	7791.8	11213.6	14634.3	22178.6	29722.9	33202.3	36681.7	37492.9
62.5°	6867.3	10188.6	13509.0	21818.8	30128.5	33801.8	37474.0	38641.1
65°	5982.6	9050.4	12118.2	20941.0	29762.7	33971.8	38179.8	39225.6
67.5°	5211.1	8099.0	10986.9	19469.7	27952.4	32610.8	37268.2	38571.5
70°	4124.6	6781.8	9439.1	16861.1	24283.2	29738.8	35194.5	36803.0
72.5°	3075.8	5329.4	7582.1	13263.4	18944.8	25218.6	31491.5	33515.5
75°	2323.2	4256.8	6190.3	10483.9	14777.5	20089.0	25400.5	28109.5
77.5°	1625.4	3075.8	4525.2	7728.2	10931.2	13871.8	16812.4	18255.9
80°	1141.2	1945.5	2748.7	4289.6	5829.5	7133.7	8437.0	8333.6
82.5°	696.9	1034.9	1371.9	1861.0	2350.1	2665.2	2980.3	2966.4
85°	404.6	492.1	578.6	716.8	854.9	1011.0	1167.1	1037.9
87.5°	143.2	143.2	143.2	164.0	184.9	254.5	324.1	342.0
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-CA8-330-740-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)