

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: P510505

Luminaire Tested: **CST-CA10-310-760-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510505
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-CA10-310-760-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: 50183 lumens
Efficiency: N/A
Efficacy: 160.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

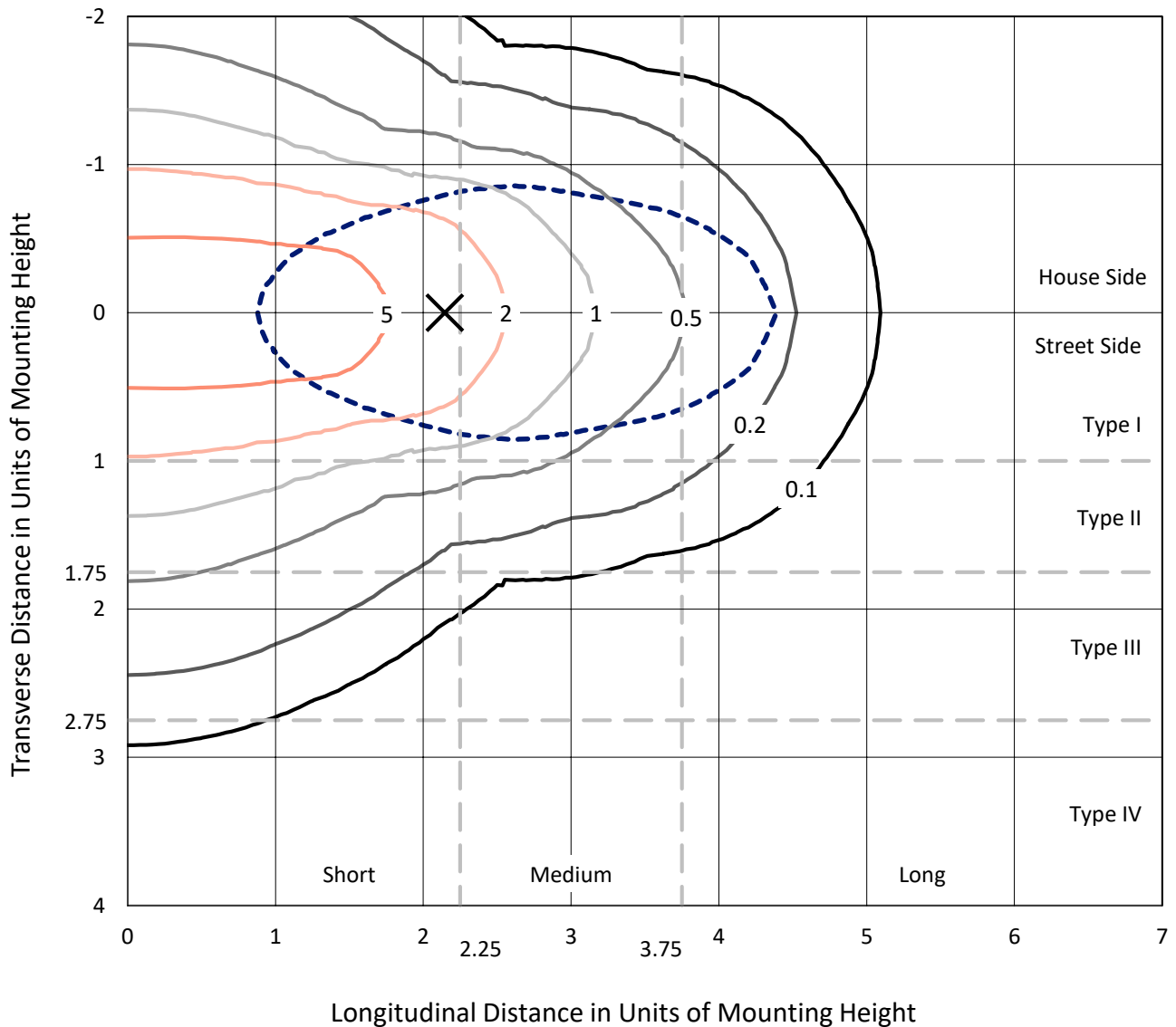
Input Watts (W): 312.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

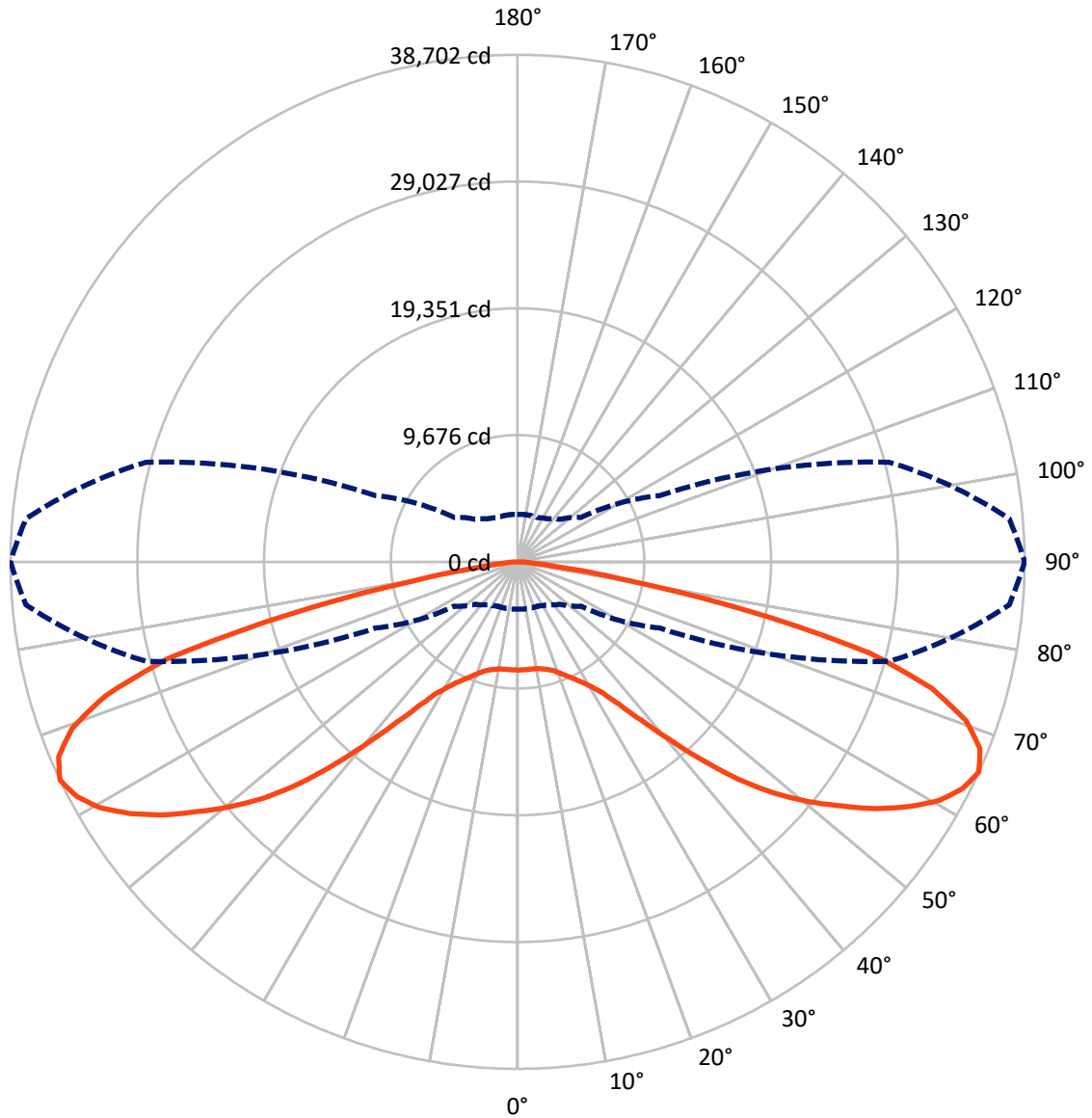
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 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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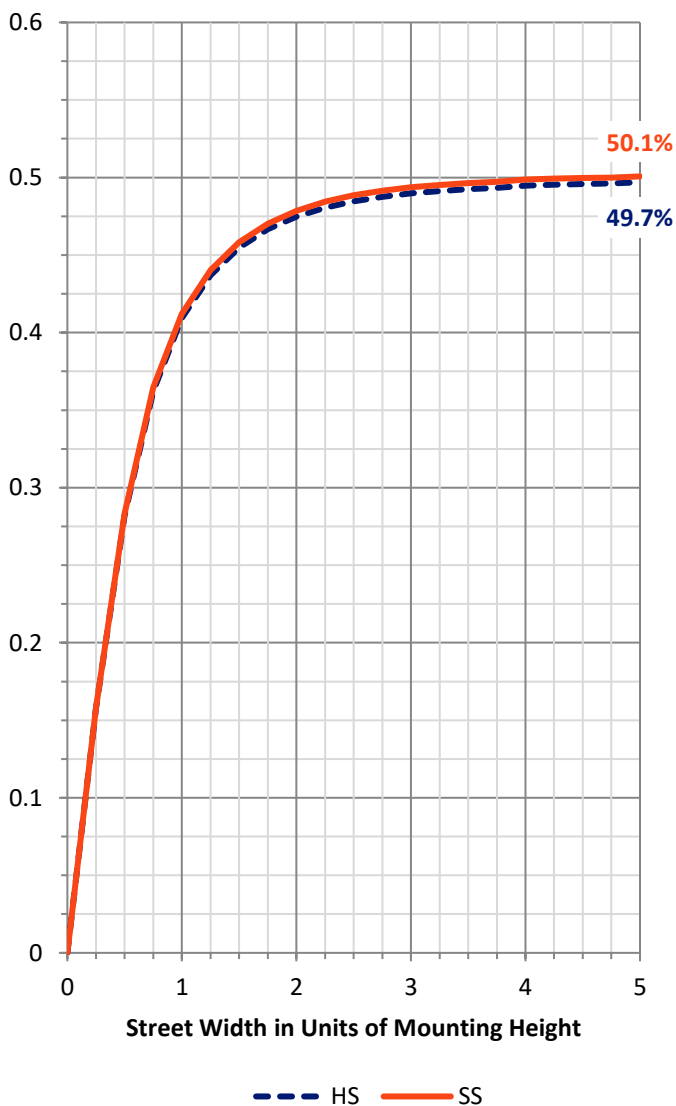
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25091.5	0.0	25091.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25091.5	0.0	25091.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	50183.0	0.0	50183.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.6	1.6
10°-20°	2315.2	4.6
20°-30°	3813.8	7.6
30°-40°	5587.6	11.1
40°-50°	8261.9	16.5
50°-60°	10837.6	21.6
60°-70°	11306.6	22.5
70°-80°	6500.7	13.0
80°-90°	774.9	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°	50183.0	100.0
0°-180°	50183.0	100.0

Coefficient of Utilization

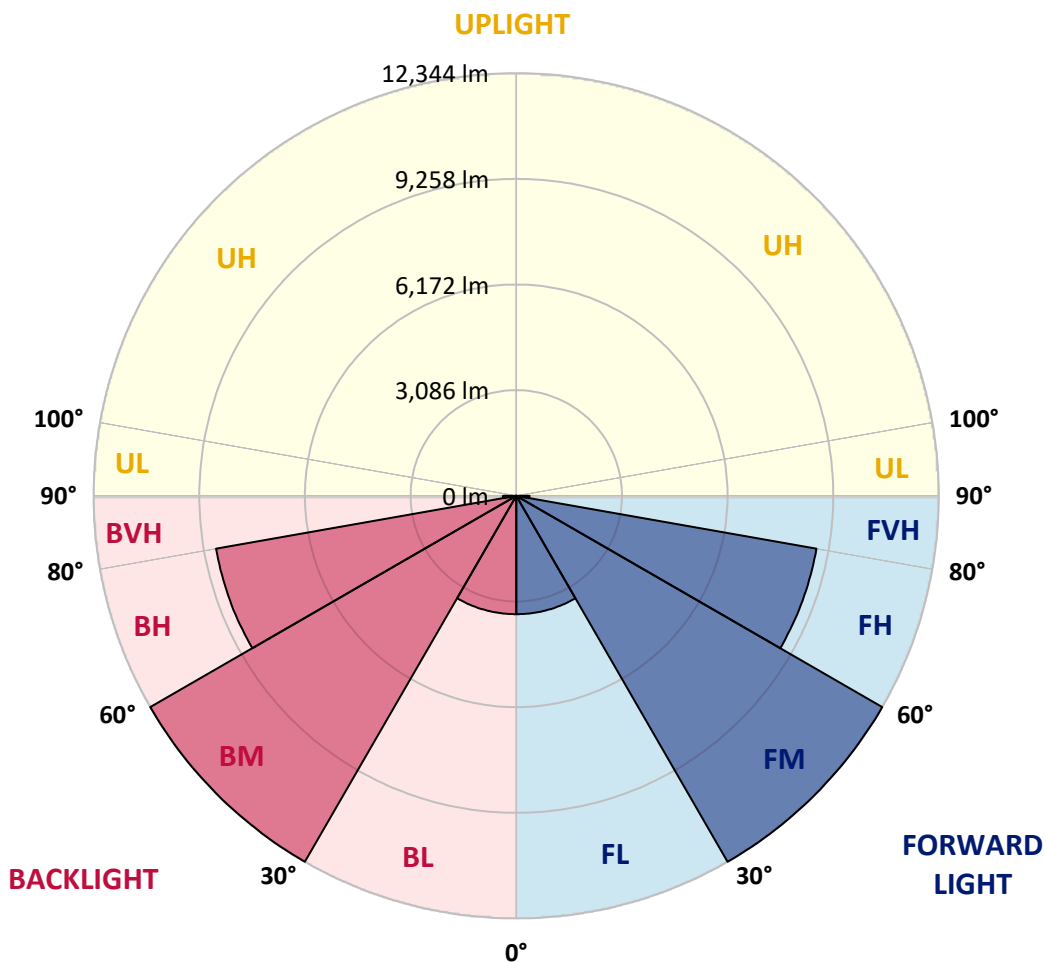


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3456.8	6.9			
FM (30°-60°)	12343.6	24.6			
FH (60°-80°)	8903.7	17.7			G4/12000
FVH (80°-90°)	387.5	0.8			G3/500
BL (0°-30°)	3456.8	6.9	B4/5000		
BM (30°-60°)	12343.6	24.6	B5		
BH (60°-80°)	8903.7	17.7	B5		G5
BVH (80°-90°)	387.5	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°	8267.5	8267.5	8267.5	8267.5	8267.5	8267.5	8267.5	8267.5	8267.5	8267.5	8267.5
2.5°	8265.5	8259.7	8257.7	8254.7	8259.7	8263.6	8273.4	8282.2	8280.3	8278.3	8280.3
5°	8219.4	8222.4	8223.4	8224.3	8228.3	8231.2	8244.9	8258.7	8256.7	8254.7	8264.6
7.5°	8154.7	8154.7	8152.7	8150.8	8158.6	8165.5	8179.2	8193.0	8203.7	8213.6	8229.2
10°	8060.5	8056.6	8055.6	8054.7	8063.5	8071.3	8096.8	8122.3	8143.9	8164.5	8191.0
12.5°	7945.8	7944.8	7946.8	7948.7	7967.4	7986.0	8029.2	8072.3	8115.5	8158.6	8196.9
15°	7809.4	7797.7	7807.5	7816.3	7846.7	7876.1	7959.5	8042.9	8108.6	8173.3	8247.9
17.5°	7601.5	7589.7	7604.5	7618.2	7679.0	7739.8	7857.5	7974.2	8097.8	8221.4	8328.3
20°	7286.7	7286.7	7323.9	7361.2	7464.2	7567.2	7729.0	7889.9	8056.6	8223.4	8378.3
22.5°	6951.2	6941.4	7020.9	7100.3	7223.9	7346.5	7550.5	7754.5	7975.2	8194.9	8407.8
25°	6572.6	6589.3	6689.3	6788.4	6962.0	7134.6	7385.7	7635.8	7913.4	8191.0	8486.2
27.5°	6252.9	6255.8	6376.4	6497.1	6714.8	6931.6	7236.6	7541.7	7880.1	8218.5	8590.2
30°	5922.3	5976.3	6103.8	6230.3	6473.5	6716.8	7085.6	7453.4	7854.6	8255.7	8708.9
32.5°	5668.3	5681.0	5825.2	5968.4	6222.4	6476.5	6905.1	7333.7	7815.3	8296.9	8848.2
35°	5428.9	5449.5	5583.9	5718.3	5983.1	6247.0	6716.8	7185.6	7761.4	8336.2	8999.2
37.5°	5216.1	5241.6	5369.1	5496.6	5751.6	6006.7	6504.9	7003.2	7678.0	8352.8	9165.0
40°	5060.2	5081.7	5189.6	5297.5	5528.0	5757.5	6279.3	6800.2	7561.3	8322.4	9295.4
42.5°	4947.4	4957.2	5044.5	5131.8	5337.7	5543.7	6060.6	6576.5	7409.3	8242.0	9396.4
45°	4794.3	4815.9	4902.2	4987.6	5173.0	5357.3	5830.1	6302.9	7183.7	8063.5	9397.4
47.5°	4680.6	4694.3	4775.7	4856.1	5028.8	5201.4	5626.1	6050.8	6928.7	7805.5	9291.5
50°	4597.2	4590.3	4665.9	4740.4	4886.5	5031.7	5410.3	5787.9	6612.8	7437.7	9026.7
52.5°	4478.5	4486.4	4547.2	4608.0	4734.5	4860.1	5199.4	5537.8	6262.7	6986.5	8597.1
55°	4319.6	4355.9	4406.9	4456.9	4567.8	4678.6	4983.6	5288.7	5912.5	6535.3	8043.9
57.5°	4163.7	4190.1	4233.3	4276.5	4363.8	4450.1	4737.5	5024.8	5543.7	6062.6	7345.5
60°	4036.2	4043.0	4070.5	4097.0	4163.7	4230.4	4467.7	4705.1	5158.2	5610.4	6649.1
62.5°	3871.4	3873.3	3892.0	3910.6	3951.8	3992.0	4178.4	4363.8	4750.2	5136.7	5956.6
65°	3613.4	3629.1	3646.8	3663.4	3690.9	3717.4	3859.6	4001.8	4291.2	4580.5	5241.6
67.5°	3352.5	3338.8	3359.4	3380.0	3383.9	3387.8	3495.7	3603.6	3841.0	4078.3	4609.9
70°	2927.8	2938.6	2936.6	2933.7	2917.0	2899.4	2974.9	3050.4	3176.0	3300.5	3685.0
72.5°	2245.1	2230.4	2193.2	2154.9	2137.3	2119.6	2207.9	2295.2	2387.4	2479.6	2757.1
75°	1372.2	1414.4	1491.9	1568.4	1597.8	1627.2	1622.3	1616.4	1608.6	1600.7	1947.0
77.5°	929.8	952.4	970.1	986.7	1029.9	1072.1	1121.1	1170.1	1169.2	1168.2	1385.9
80°	591.4	573.8	581.6	589.5	614.0	638.5	713.1	786.6	807.2	826.8	976.9
82.5°	370.8	373.7	383.5	392.3	364.9	337.4	395.3	452.2	501.2	549.3	618.9
85°	240.3	272.7	267.8	262.9	230.5	198.1	249.1	300.1	323.7	346.2	372.7
87.5°	77.5	90.2	93.2	95.1	95.1	94.2	104.9	115.7	119.7	122.6	132.4
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°	8267.5	8267.5	8267.5	8267.5	8267.5	8267.5	8267.5	8267.5
2.5°	8281.2	8271.4	8261.6	8258.7	8255.7	8253.8	8251.8	8249.8
5°	8273.4	8271.4	8269.5	8261.6	8253.8	8252.8	8251.8	8254.7
7.5°	8244.9	8244.9	8244.9	8253.8	8262.6	8258.7	8253.8	8259.7
10°	8216.5	8240.0	8263.6	8270.4	8277.3	8282.2	8287.1	8292.0
12.5°	8235.1	8275.3	8314.6	8337.1	8359.7	8371.5	8382.3	8385.2
15°	8322.4	8373.4	8424.4	8454.8	8484.3	8503.9	8523.5	8528.4
17.5°	8435.2	8513.7	8591.2	8635.3	8679.5	8702.0	8723.6	8716.7
20°	8532.3	8640.2	8748.1	8842.3	8936.4	8988.4	9039.4	9045.3
22.5°	8619.6	8801.1	8982.5	9104.2	9224.8	9317.0	9409.2	9419.0
25°	8780.5	9017.8	9255.2	9449.4	9643.6	9728.0	9811.3	9860.4
27.5°	8961.0	9278.7	9596.5	9856.5	10116.4	10244.9	10372.4	10379.2
30°	9161.0	9564.2	9966.3	10315.5	10663.7	10820.6	10976.6	11059.0
32.5°	9398.4	9910.4	10421.4	10880.5	11339.5	11577.8	11816.2	11899.6
35°	9661.3	10325.3	10988.4	11621.0	12252.7	12708.7	13164.8	13384.5
37.5°	9977.1	10822.6	11668.1	12618.5	13568.9	14346.7	15123.6	15345.2
40°	10268.4	11356.2	12442.9	13763.1	15083.4	16317.3	17550.2	17790.5
42.5°	10550.9	11867.2	13183.5	14984.3	16785.1	18436.8	20088.6	20713.4
45°	10730.4	12322.3	13913.2	16287.8	18662.4	20930.1	23196.9	23721.6
47.5°	10776.5	12647.0	14517.4	17459.0	20400.5	23069.4	25737.2	26411.1
50°	10615.6	12815.7	15015.7	18897.8	22779.0	25496.9	28213.9	28767.1
52.5°	10207.6	12761.7	15315.8	20013.1	24710.3	27587.1	30463.9	30966.1
55°	9552.4	12434.1	15315.8	20931.1	26545.5	29529.2	32511.9	33275.0
57.5°	8628.4	11808.3	14988.2	21544.2	28100.1	31340.8	34581.5	35267.1
60°	7687.8	11063.9	14438.9	21882.5	29326.1	32759.1	36192.0	36992.4
62.5°	6775.6	10052.6	13328.6	21527.5	29726.3	33350.5	36973.7	38125.3
65°	5902.7	8929.6	11956.4	20661.4	29365.4	33518.2	37670.1	38702.0
67.5°	5141.6	7990.9	10840.2	19209.8	27579.3	32175.5	36770.7	38056.6
70°	4069.5	6691.3	9313.1	16636.0	23959.0	29341.8	34724.7	36311.7
72.5°	3034.7	5258.3	7480.9	13086.4	18691.9	24881.9	31071.0	33068.0
75°	2292.2	4200.0	6107.7	10343.9	14580.2	19820.8	25061.4	27734.2
77.5°	1603.7	3034.7	4464.8	7625.1	10785.3	13686.6	16588.0	18012.1
80°	1126.0	1919.5	2712.0	4232.3	5751.6	7038.5	8324.4	8222.4
82.5°	687.6	1021.1	1353.6	1836.1	2318.7	2629.6	2940.6	2926.8
85°	399.2	485.5	570.8	707.2	843.5	997.5	1151.5	1024.0
87.5°	141.2	141.2	141.2	161.8	182.4	251.1	319.8	337.4
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-CA10-310-760-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)