

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: P579541

Luminaire Tested: **CST-CA10-760-750-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579541  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-5)  
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-T5N-HSS-HM-EX120  
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: 85216 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U2 - G5

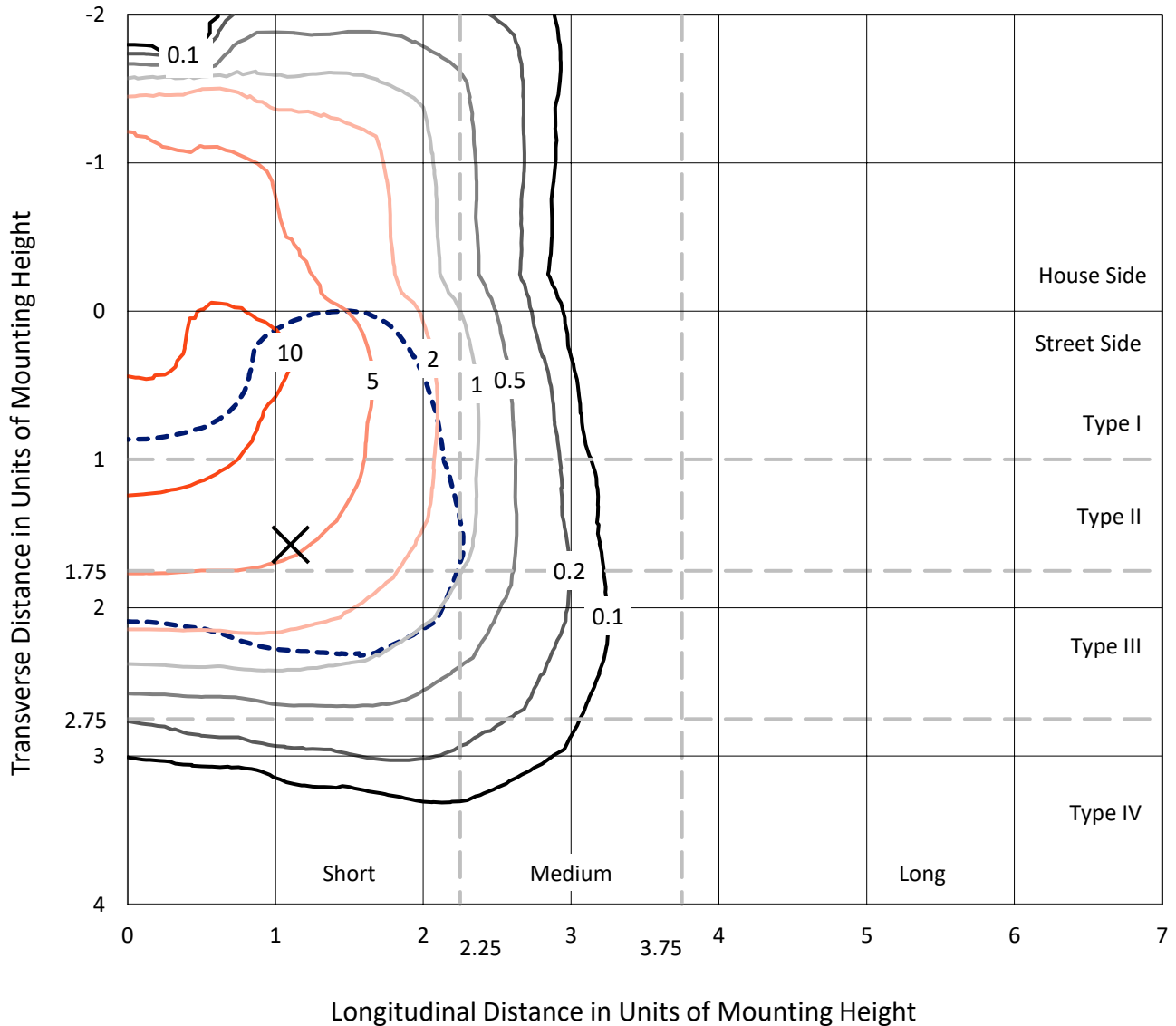
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

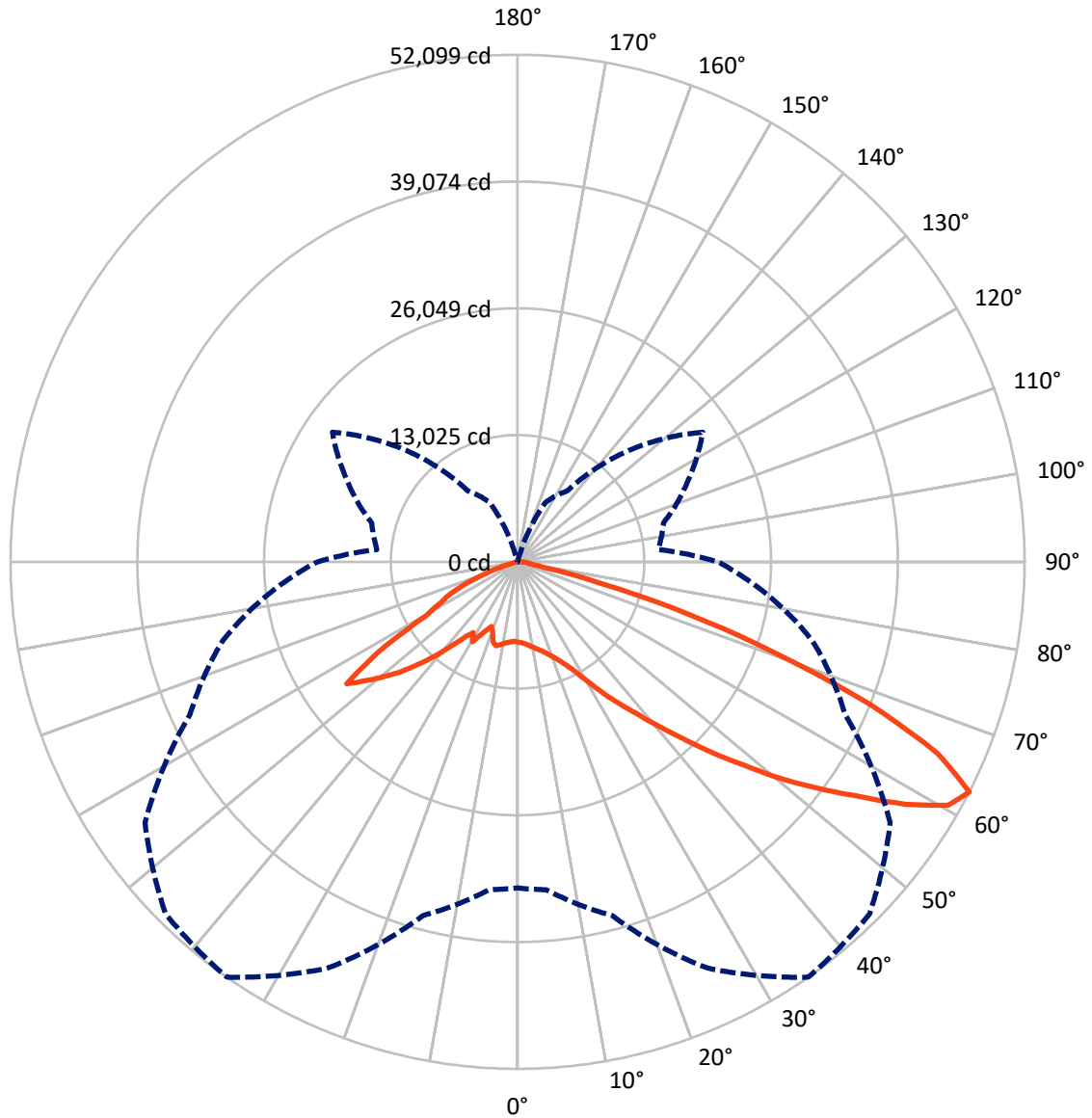
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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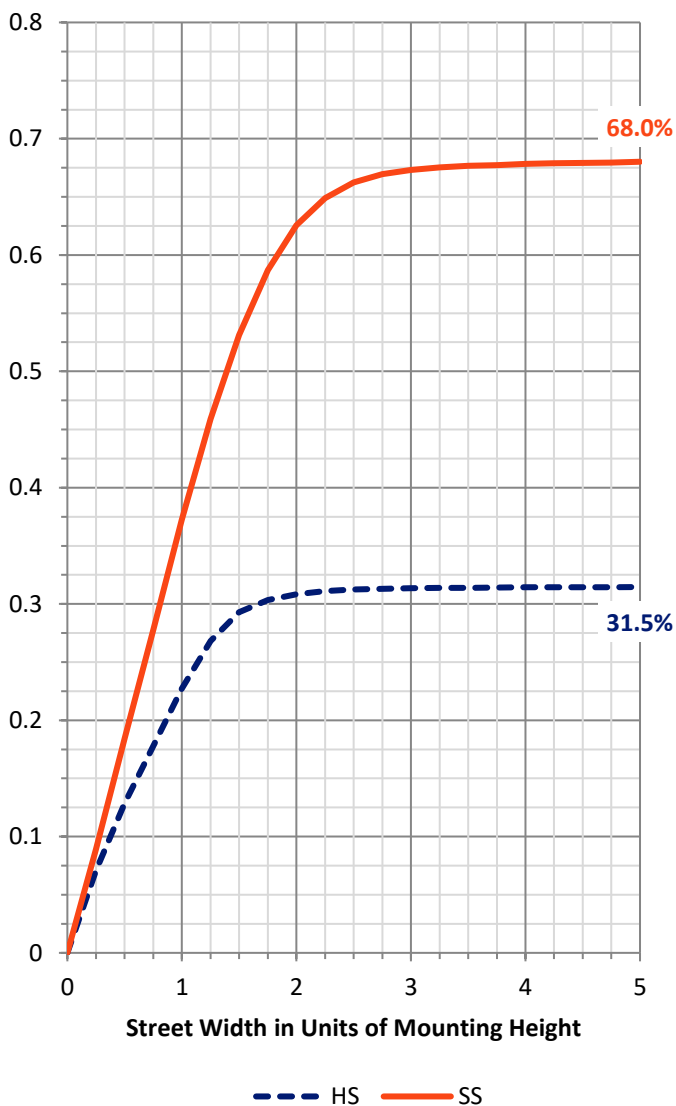
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26958.7	0.0	26958.7
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	58208.6	48.6	58257.3
	% Fixture	68.3	0.1	68.4
<b>Total</b>	Lumens	85167.3	48.7	85216.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	815.7	1.0
10°-20°	2622.5	3.1
20°-30°	4869.7	5.7
30°-40°	9600.9	11.3
40°-50°	17234.7	20.2
50°-60°	25052.6	29.4
60°-70°	20589.1	24.2
70°-80°	3913.7	4.6
80°-90°	468.5	0.5
90°-100°	44.3	0.1
100°-110°	4.3	0.0
110°-120°	0.1	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°	85167.3	99.9
0°-180°	85216.0	100.0

**Coefficient of Utilization**

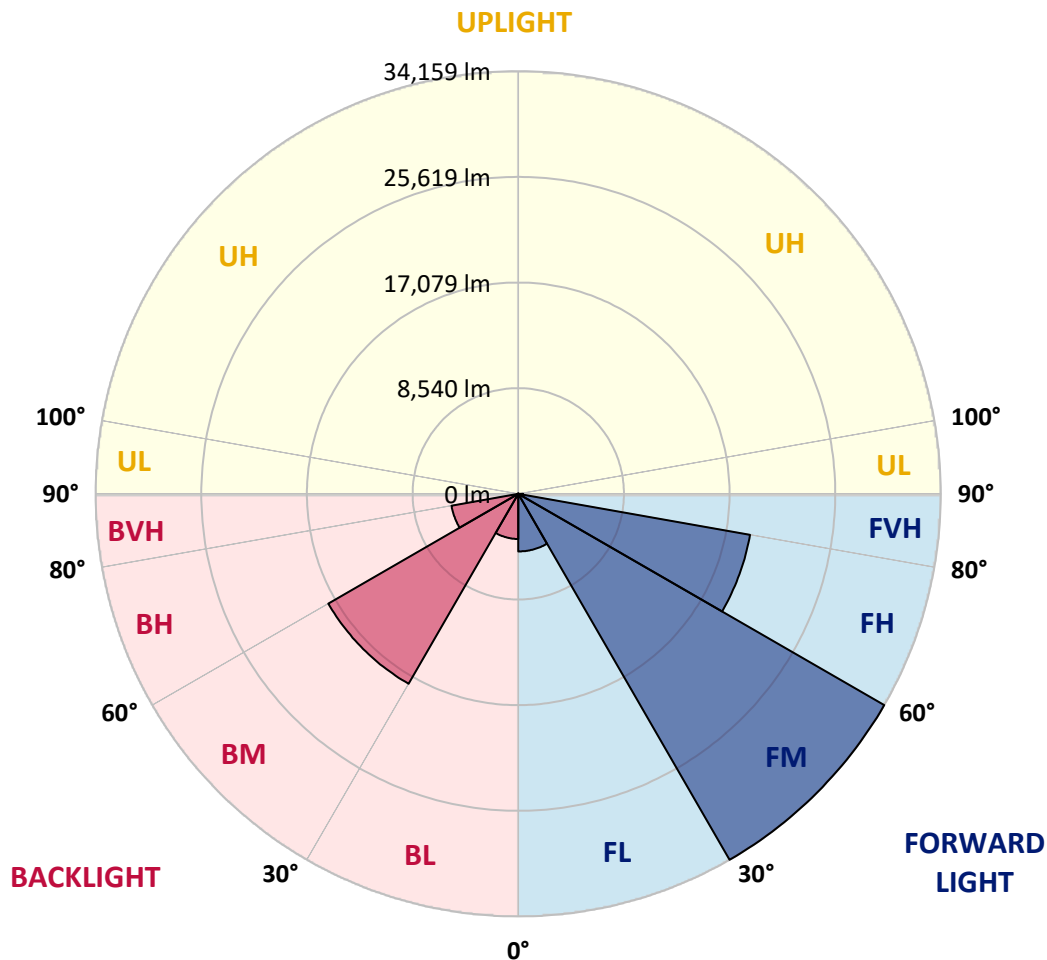


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4657.5	5.5			
FM (30°-60°)	34158.5	40.1			
FH (60°-80°)	19022.1	22.3			G5
FVH (80°-90°)	370.4	0.4			G3/500
BL (0°-30°)	3650.3	4.3	B4/5000		
BM (30°-60°)	17729.7	20.8	B5		
BH (60°-80°)	5480.7	6.4	B5		G5
BVH (80°-90°)	98.0	0.1			G1/100
UL (90°-100°)	44.3	0.1		U2/50	
UH (100°-180°)	4.3	0.0		U1/10	

**BUG Rating: B5-U2-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8271.5	8271.5	8271.5	8271.5	8271.5	8271.5	8271.5	8271.5	8271.5	8271.5	8271.5
2.5°	8482.8	8413.5	8420.5	8472.4	8316.6	8368.5	8295.8	8358.1	8330.4	8358.1	8375.4
5°	8652.5	8566.0	8562.5	8614.4	8489.7	8520.9	8437.8	8479.4	8441.3	8475.9	8475.9
7.5°	8860.4	8787.6	8770.3	8811.9	8701.0	8714.9	8631.8	8649.1	8604.1	8649.1	8614.4
10°	9120.2	9054.3	9026.6	9047.4	8947.0	8953.9	8863.8	8870.8	8805.0	8843.1	8815.3
12.5°	9393.8	9303.7	9289.9	9324.5	9220.6	9206.8	9130.5	9137.5	9064.7	9099.4	9078.6
15°	9677.8	9584.3	9587.8	9622.4	9518.5	9525.4	9445.8	9459.6	9386.9	9421.5	9393.8
17.5°	10055.4	9961.9	9954.9	10017.3	9930.7	9958.4	9875.3	9892.6	9840.6	9847.6	9816.4
20°	10595.7	10474.5	10450.3	10540.3	10426.0	10460.6	10415.6	10474.5	10453.7	10436.4	10412.2
22.5°	11240.0	11146.5	11098.0	11167.3	11032.2	11098.0	11122.2	11243.5	11274.6	11253.9	10872.8
25°	12102.5	12054.0	12005.5	11974.3	11811.5	11915.4	12040.1	12241.0	12372.7	12424.6	11894.7
27.5°	13266.3	13290.6	13079.3	13044.6	12861.1	13023.8	13249.0	13574.6	13841.3	13938.3	13224.7
30°	14762.7	14793.8	14506.4	14423.2	14312.4	14450.9	14870.0	15226.8	15621.7	15784.5	14831.9
32.5°	16750.9	16723.2	16300.6	16141.3	16040.8	16096.2	16536.1	17024.5	17467.9	17835.1	16664.3
35°	19179.0	19092.4	18642.1	18202.2	17803.9	17973.6	18295.7	18888.0	19560.0	20100.4	18472.4
37.5°	21998.5	21915.4	21229.6	20512.6	19726.3	19799.0	20086.5	21052.9	21918.9	22060.9	18164.1
40°	24911.6	24876.9	24229.2	23318.2	22095.5	21752.6	22133.6	23311.3	24225.7	21749.1	18881.1
42.5°	27821.2	27654.9	27291.2	26380.2	24752.2	23997.1	24509.8	25687.5	26671.2	22802.1	20543.7
45°	30755.0	30585.3	30277.0	29608.5	27914.7	26816.7	26965.6	28271.5	29161.6	24776.5	22275.6
47.5°	33359.8	33235.1	33013.4	32639.3	31129.1	30135.0	29847.5	30761.9	31368.1	26380.2	23605.7
50°	35604.3	35496.9	35583.5	35458.8	35015.4	33972.8	33023.8	32964.9	33255.8	27807.3	24828.4
52.5°	37578.7	37433.2	37803.8	38243.7	38652.4	38420.4	36123.9	35053.6	34790.3	28877.6	25649.4
55°	39210.1	39158.1	39795.5	40983.6	42538.8	43148.4	39438.7	36982.9	36162.0	29785.1	25725.6
57.5°	40186.9	40311.6	41659.0	43959.0	47000.2	47287.7	43318.2	39033.4	37370.8	30335.9	26089.3
60°	38517.3	38939.9	41364.6	46189.6	50796.5	50921.2	46106.5	39442.2	35787.9	28354.6	24146.1
62.5°	33515.6	33820.4	37634.1	46047.6	52098.9	51149.8	46730.0	37135.3	31364.6	24052.6	20536.8
65°	23681.9	24035.2	28631.7	41523.9	47398.5	47433.1	42805.5	32112.8	25070.9	18621.3	15857.2
67.5°	14284.7	14856.2	19210.2	30145.4	39026.5	39736.6	35711.7	24312.3	17942.4	12157.9	10263.2
70°	4686.5	5209.5	8770.3	17842.0	28132.9	31174.1	26820.1	15798.3	9369.6	5140.3	4139.2
72.5°	1856.6	2095.6	3089.7	7890.5	18129.5	20813.9	16525.7	7634.2	3145.1	1364.7	1188.1
75°	1240.0	1264.3	1427.1	2687.9	8870.8	11382.0	7966.7	2220.3	1167.3	852.1	748.2
77.5°	1080.7	1084.2	1156.9	1416.7	2888.8	4364.4	2293.0	1191.5	966.4	699.7	620.0
80°	990.6	1004.5	1049.5	1208.9	1323.2	1482.5	1132.7	994.1	838.2	644.3	585.4
82.5°	949.1	959.5	987.2	1094.6	1070.3	1111.9	914.4	789.7	706.6	592.3	561.1
85°	865.9	883.3	900.6	966.4	879.8	762.0	706.6	530.0	505.7	446.8	412.2
87.5°	654.7	651.2	633.9	644.3	588.8	481.5	398.3	297.9	242.5	200.9	166.3
90°	273.6	277.1	266.7	252.9	221.7	183.6	138.6	83.1	41.6	13.9	6.9
92.5°	207.8	211.3	204.4	183.6	159.3	128.2	93.5	48.5	27.7	10.4	3.5
95°	128.2	131.6	124.7	110.8	97.0	72.7	48.5	31.2	17.3	6.9	0.0
97.5°	76.2	79.7	72.7	65.8	52.0	34.6	27.7	20.8	13.9	6.9	0.0
100°	45.0	45.0	41.6	34.6	24.2	20.8	17.3	13.9	10.4	3.5	0.0
102.5°	20.8	20.8	20.8	13.9	10.4	10.4	10.4	10.4	10.4	3.5	0.0
105°	6.9	6.9	3.5	3.5	3.5	6.9	6.9	6.9	6.9	3.5	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	6.9	6.9	3.5	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	0.0



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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°	8271.5	8271.5	8271.5	8271.5	8271.5	8271.5	8271.5	8271.5	8271.5	8271.5
2.5°	8358.1	8292.3	8302.7	8243.8	8230.0	8167.6	8278.5	8288.8	8257.7	8288.8
5°	8462.0	8382.4	8403.2	8337.3	8320.0	8233.4	8323.5	8316.6	8292.3	8323.5
7.5°	8614.4	8524.4	8534.8	8458.6	8441.3	8344.3	8427.4	8403.2	8375.4	8413.5
10°	8808.4	8721.8	8725.3	8621.4	8611.0	8500.1	8607.5	8562.5	8520.9	8576.3
12.5°	9078.6	8957.4	8947.0	8832.7	8829.2	8714.9	8825.7	8787.6	8732.2	8818.8
15°	9390.3	9227.5	9186.0	9040.5	9037.0	8915.8	9026.6	8967.8	8940.0	9044.0
17.5°	9795.6	9591.2	9276.0	8780.7	8555.6	8593.7	8985.1	9127.1	8756.5	8811.9
20°	10041.5	9050.9	8590.2	8385.8	8278.5	7661.9	6827.1	6896.4	7717.3	8108.7
22.5°	9625.9	9331.4	9161.7	8874.2	7377.9	7166.6	7215.1	7201.2	6141.3	5826.1
25°	10491.8	10214.7	9906.4	8133.0	7824.7	7734.6	7758.9	6764.8	6186.3	6210.6
27.5°	11738.8	11382.0	9428.4	8659.5	8597.1	8465.5	7987.5	6792.5	6865.2	6913.7
30°	13314.8	12047.1	10041.5	9705.5	9580.8	9438.8	7412.5	7589.2	7724.3	7873.2
32.5°	14838.9	11718.0	11215.8	10865.9	10671.9	8569.4	8361.6	8687.2	8822.3	8950.4
35°	14700.3	13127.8	12476.6	12033.2	11669.5	9248.3	9431.9	9927.2	10284.0	10280.5
37.5°	15081.3	14662.2	13910.6	13349.4	10128.1	10360.2	10744.7	11309.3	11742.2	11738.8
40°	16671.2	16217.5	15510.8	14305.5	11222.7	11763.0	12289.5	12819.5	13131.2	13155.5
42.5°	18250.7	17900.9	17263.5	12635.9	12563.2	13311.3	13862.1	14198.1	14388.6	14454.4
45°	19823.3	19494.2	16962.2	13976.4	14198.1	14939.3	15275.3	15341.1	15545.5	15538.6
47.5°	21073.7	20793.1	15604.4	15569.7	16120.5	16633.1	16525.7	16442.6	16494.6	16522.3
50°	22227.1	18101.8	16823.6	17329.3	18167.6	18229.9	17783.1	14087.2	17440.2	17381.3
52.5°	20647.6	17665.3	17959.7	19144.4	20571.4	19847.5	18974.6	12348.4	16356.0	17911.3
55°	18067.1	18365.0	19030.1	21018.3	22428.0	21569.0	20110.8	12715.6	10855.5	8836.1
57.5°	18427.4	18898.4	20162.7	22909.5	24139.1	17083.4	18770.3	8964.3	6068.6	6065.1
60°	17159.6	17873.2	20138.5	23758.1	19539.2	10945.6	7519.9	204.4	1177.7	1167.3
62.5°	14506.4	15521.2	19213.6	23221.2	16186.3	8895.0	6699.0	17.3	6.9	6.9
65°	11219.2	12414.2	16020.0	20107.3	14340.1	7661.9	4974.0	0.0	0.0	0.0
67.5°	7357.1	8465.5	12029.7	16702.4	11905.0	5791.5	3342.6	0.0	0.0	0.0
70°	3065.5	4433.7	7474.9	12071.3	8756.5	3792.8	1586.4	0.0	0.0	0.0
72.5°	886.7	1350.9	3366.8	7208.1	5434.7	1984.8	588.8	0.0	0.0	0.0
75°	585.4	616.6	1018.4	2899.2	2642.9	727.4	239.0	0.0	0.0	0.0
77.5°	491.9	505.7	647.7	810.5	848.6	287.5	194.0	0.0	0.0	0.0
80°	453.8	457.2	581.9	602.7	453.8	239.0	190.5	0.0	0.0	0.0
82.5°	422.6	412.2	495.3	478.0	377.6	207.8	176.7	0.0	0.0	0.0
85°	291.0	297.9	336.0	426.0	228.6	103.9	124.7	0.0	0.0	0.0
87.5°	90.1	103.9	131.6	135.1	41.6	13.9	0.0	0.0	0.0	0.0
90°	3.5	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
95°	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
100°	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
105°	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
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P579541  
 CATALOG NUMBER: CST-CA10-760-750-U-T5N-HSS-HM-EX120

**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)