

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: P579539

Luminaire Tested: **CST-CA10-760-750-U-T5-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-3)
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-T5-HSS-HM-EX180
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: 66900 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U3 - G5

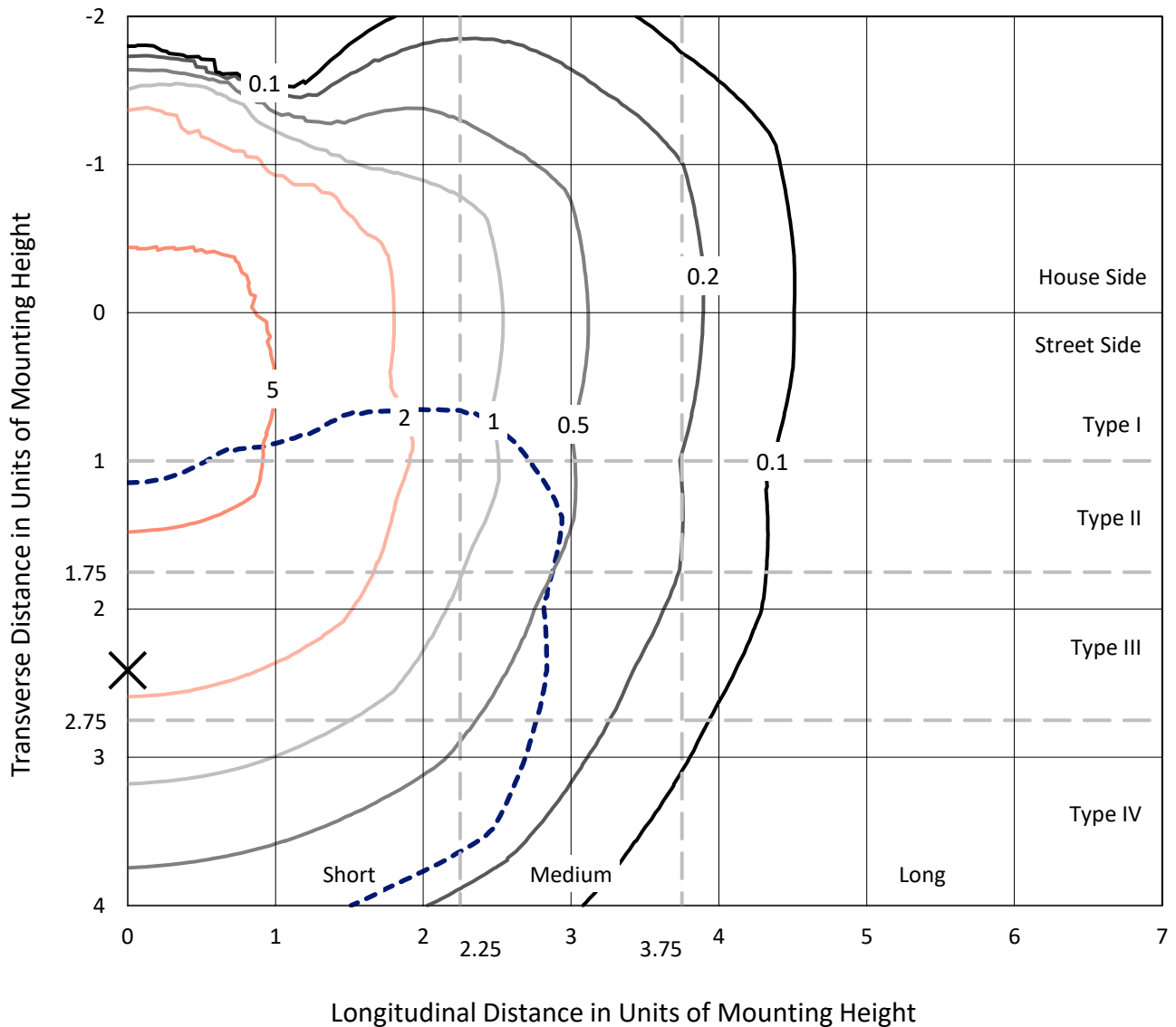
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

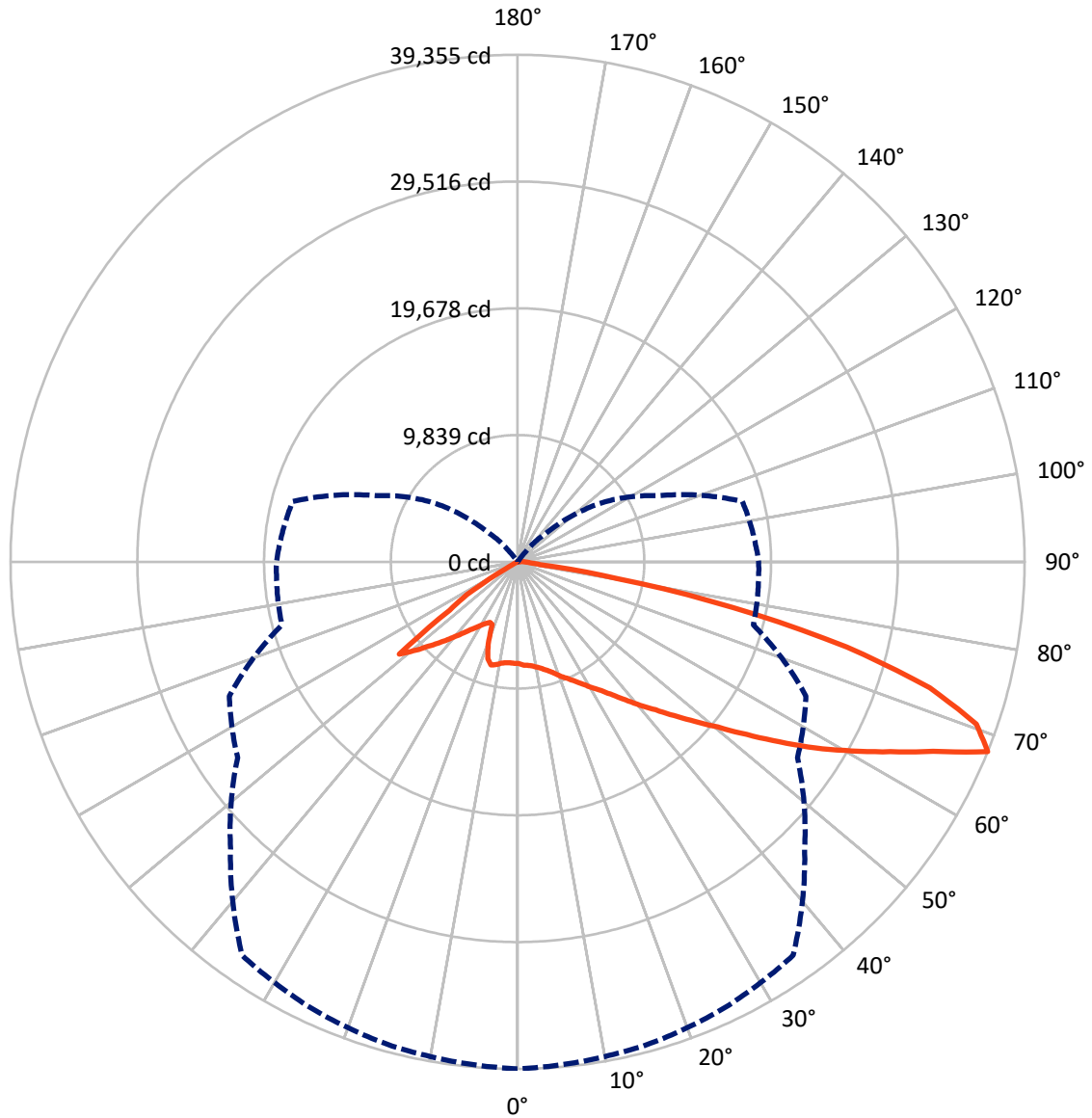
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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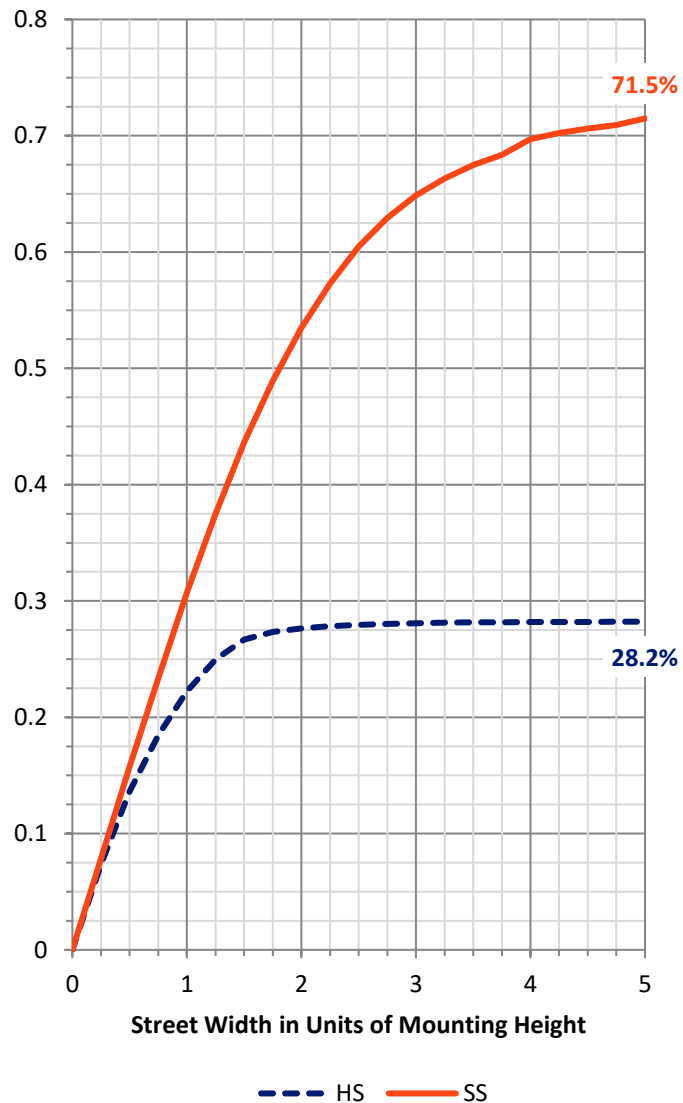
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18960.7	0.3	18961.0
	% Fixture	28.3	0.0	28.3
Street Side	Lumens	47853.8	85.2	47939.0
	% Fixture	71.5	0.1	71.7
Total	Lumens	66814.5	85.5	66900.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	759.8	1.1
10°-20°	2339.1	3.5
20°-30°	3873.2	5.8
30°-40°	6097.1	9.1
40°-50°	9542.1	14.3
50°-60°	13777.2	20.6
60°-70°	17067.5	25.5
70°-80°	12429.9	18.6
80°-90°	928.6	1.4
90°-100°	72.9	0.1
100°-110°	12.2	0.0
110°-120°	0.4	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°	66814.5	99.9
0°-180°	66900.0	100.0

Coefficient of Utilization



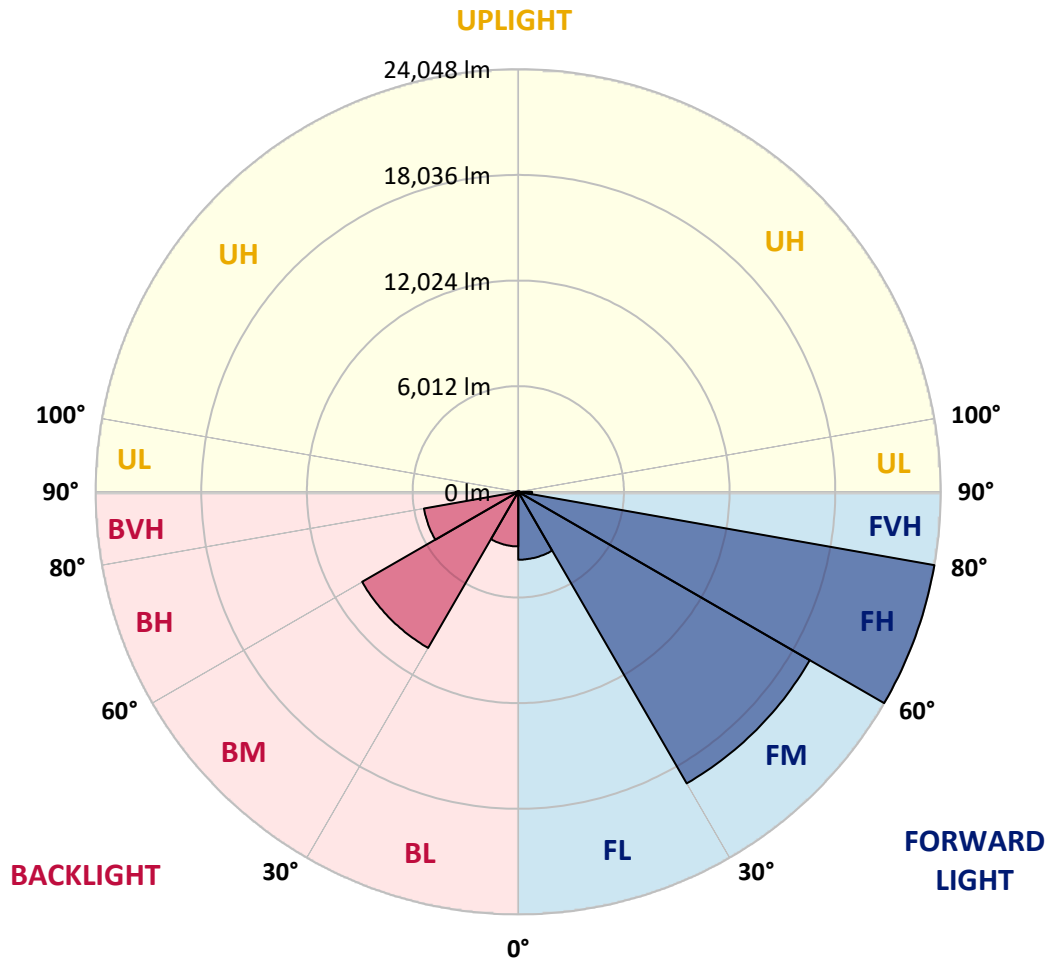
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3864.0	5.8			
FM (30°-60°)	19158.2	28.6			
FH (60°-80°)	24048.3	35.9			G5
FVH (80°-90°)	783.2	1.2			G5
BL (0°-30°)	3108.2	4.6	B4/5000		
BM (30°-60°)	10258.1	15.3	B5		
BH (60°-80°)	5449.0	8.1	B5		G5
BVH (80°-90°)	145.3	0.2			G2/225
UL (90°-100°)	72.9	0.1		U3/500	
UH (100°-180°)	12.6	0.0		U2/50	

BUG Rating: B5-U3-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7879.1	7879.1	7879.1	7879.1	7879.1	7879.1	7879.1	7879.1	7879.1	7879.1	7879.1
2.5°	8023.3	7979.7	7979.7	8026.6	7895.9	7936.1	7882.5	7929.4	7902.6	7916.0	7932.7
5°	8070.2	8019.9	8023.3	8080.3	7962.9	7996.4	7932.7	7956.2	7932.7	7942.8	7942.8
7.5°	8157.4	8113.8	8113.8	8147.3	8030.0	8040.0	7983.0	7983.0	7952.9	7976.3	7956.2
10°	8321.7	8274.7	8251.3	8268.0	8164.1	8150.7	8073.6	8073.6	8026.6	8063.5	8033.3
12.5°	8519.5	8452.4	8445.7	8449.1	8331.7	8308.3	8221.1	8224.4	8137.3	8187.6	8150.7
15°	8757.5	8673.7	8667.0	8680.4	8556.4	8512.8	8415.5	8415.5	8318.3	8345.1	8294.8
17.5°	9062.6	8965.4	8948.6	8972.1	8848.1	8807.8	8693.8	8673.7	8566.4	8546.3	8502.7
20°	9465.0	9354.3	9320.8	9371.1	9213.5	9176.6	9039.2	8995.6	8851.4	8613.4	8301.6
22.5°	9827.1	9739.9	9719.8	9753.3	9609.1	9572.3	9438.2	9347.6	8998.9	8519.5	8231.1
25°	10239.5	10205.9	10195.9	10175.8	10045.0	9981.3	9853.9	9726.5	8935.2	8278.1	8271.4
27.5°	10749.1	10732.3	10685.4	10668.6	10524.5	10484.2	10316.6	9495.2	8707.2	8660.3	8633.5
30°	11305.7	11272.1	11225.2	11228.6	11131.3	11057.6	10658.6	9290.6	9146.5	9146.5	9076.1
32.5°	11922.6	11885.7	11838.8	11848.8	11808.6	11744.9	10544.6	9830.4	9719.8	9750.0	9662.8
35°	12687.0	12626.7	12609.9	12650.1	12653.5	12241.1	10745.7	10564.7	10477.5	10457.4	10128.8
37.5°	13578.9	13528.6	13588.9	13682.8	13575.5	12368.5	11547.1	11490.1	11402.9	10916.7	10138.9
40°	14648.4	14557.9	14631.7	14692.0	14621.6	13126.2	12388.6	12408.7	12331.6	10889.9	10028.2
42.5°	15707.9	15620.7	15684.4	15835.3	15808.5	14065.0	13414.6	13458.2	12680.3	10953.6	10886.6
45°	17018.9	16988.7	16968.6	17092.6	17196.6	15188.2	14631.7	14628.3	12432.2	11966.2	11905.8
47.5°	18504.1	18463.9	18474.0	18631.6	18789.1	16529.3	16070.0	14722.2	13072.6	13119.5	13065.9
50°	20160.4	20116.8	20247.6	20475.6	20556.1	18034.8	17471.5	14467.4	14407.0	14457.3	14366.8
52.5°	22262.6	22165.4	22366.6	22611.3	22715.3	19815.1	17548.6	15972.8	15872.2	15882.2	15593.9
55°	24653.2	24576.1	24757.1	25032.1	25186.3	21803.3	19151.2	17438.0	17377.6	15667.7	14108.6
57.5°	27251.6	27164.4	27405.8	27486.3	27526.6	23858.6	20763.9	19027.2	16234.3	14306.4	14219.3
60°	29799.8	29705.9	30011.0	30024.4	30141.7	25910.5	22296.2	20559.4	15640.8	15386.0	15312.3
62.5°	32475.3	32357.9	32626.2	32616.1	32384.8	27788.1	23815.0	22031.3	16700.3	16499.2	16385.2
65°	35445.9	35358.7	35546.5	35244.7	34785.4	29729.3	25390.8	23633.9	17934.2	17897.3	17870.5
67.5°	39355.3	39184.3	38805.4	38161.7	37283.2	31509.7	26517.4	24690.1	18936.7	18765.7	18712.0
70°	37782.8	37581.6	37293.3	36585.8	35690.6	29836.6	24706.8	23094.1	17706.2	17712.9	17585.5
72.5°	33454.3	33105.6	32834.0	31841.6	31348.8	26058.0	21528.4	20043.1	15315.6	15600.6	15540.3
75°	26389.9	26034.6	25588.6	25199.7	25146.1	21136.1	17357.5	16287.9	12210.9	12418.8	12569.7
77.5°	17106.0	16975.3	17538.5	17169.7	17501.7	14554.5	12398.7	11480.0	8415.5	8941.9	8871.5
80°	7828.8	7677.9	8583.2	8328.4	8452.4	7148.2	6058.5	5820.5	3808.8	3835.6	3916.1
82.5°	1770.3	1709.9	1773.6	1629.5	1589.2	1344.5	1183.5	1072.9	673.9	714.1	751.0
85°	969.0	969.0	955.6	888.5	761.1	627.0	496.2	382.2	207.9	228.0	224.6
87.5°	680.6	663.9	660.5	590.1	506.3	429.2	342.0	244.8	117.3	80.5	73.8
90°	466.0	459.3	435.9	392.3	338.6	278.3	207.9	120.7	50.3	23.5	16.8
92.5°	338.6	331.9	315.2	278.3	231.3	187.8	137.5	80.5	40.2	16.8	3.4
95°	224.6	221.3	211.2	181.1	150.9	120.7	87.2	50.3	33.5	13.4	3.4
97.5°	154.2	150.9	140.8	120.7	97.2	77.1	53.6	36.9	26.8	10.1	3.4
100°	103.9	100.6	93.9	77.1	60.4	46.9	33.5	26.8	20.1	10.1	3.4
102.5°	67.1	63.7	57.0	46.9	33.5	26.8	23.5	20.1	13.4	6.7	3.4
105°	40.2	36.9	30.2	23.5	20.1	16.8	16.8	13.4	10.1	3.4	3.4
107.5°	20.1	16.8	13.4	13.4	13.4	10.1	10.1	10.1	6.7	3.4	0.0
110°	3.4	3.4	6.7	6.7	6.7	6.7	6.7	6.7	6.7	3.4	0.0



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 CATALOG NUMBER: CST-CA10-760-750-U-T5-HSS-HM-EX180

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°	7879.1	7879.1	7879.1	7879.1	7879.1	7879.1	7879.1	7879.1	7879.1	7879.1
2.5°	7916.0	7862.3	7892.5	7845.6	7835.5	7785.2	7865.7	7875.7	7869.0	7882.5
5°	7926.0	7869.0	7902.6	7845.6	7845.6	7791.9	7869.0	7869.0	7848.9	7855.6
7.5°	7952.9	7895.9	7919.3	7855.6	7859.0	7795.3	7889.2	7879.1	7862.3	7885.8
10°	8030.0	7966.3	7962.9	7902.6	7916.0	7848.9	7966.3	7966.3	7949.5	7993.1
12.5°	8154.0	8060.1	8043.4	7969.6	7996.4	7939.4	8083.6	8090.3	8093.7	8164.1
15°	8284.8	8170.8	8187.6	8100.4	8090.3	8060.1	8190.9	8184.2	8180.9	8278.1
17.5°	8469.2	7932.7	7845.6	7785.2	7771.8	7698.0	7818.7	8050.1	7929.4	7862.3
20°	8177.5	7895.9	7550.5	7433.2	7409.7	6769.3	6263.0	6491.0	6799.5	6826.3
22.5°	7912.6	7812.0	7785.2	7600.8	6578.2	6363.6	6383.7	6299.9	5569.0	5250.5
25°	8241.2	8154.0	8040.0	6913.5	6672.1	6595.0	6571.5	5713.2	5136.5	5173.4
27.5°	8606.7	8509.4	7517.0	6930.3	6983.9	6876.6	6346.9	5331.0	5297.4	5361.1
30°	9062.6	8284.8	7335.9	7302.4	7352.7	7215.2	5639.4	5565.7	5555.6	5622.7
32.5°	9582.3	7989.7	7818.7	7818.7	7795.3	6310.0	5941.2	5890.9	5917.7	5988.1
35°	9387.9	8452.4	8432.3	8516.1	7952.9	6474.3	6424.0	6336.8	6356.9	6380.4
37.5°	9173.3	9213.5	9223.6	9180.0	5800.4	6943.7	6903.4	6886.7	6866.5	6873.3
40°	9971.2	9998.1	9988.0	9589.0	6259.7	7034.2	7446.6	7416.4	7413.1	7453.3
42.5°	10903.3	10977.1	10920.1	8459.1	6873.3	5914.4	8073.6	8056.8	8050.1	8133.9
45°	11952.8	12023.2	10826.2	9059.3	7527.1	6122.2	8117.1	8740.8	8791.1	8864.8
47.5°	13089.4	13075.9	9991.4	9981.3	8294.8	6698.9	6749.2	9558.9	9642.7	9669.5
50°	14397.0	12247.8	10940.2	10571.4	9163.2	7346.0	7154.9	8770.9	10621.7	10648.5
52.5°	14118.7	12117.0	12029.9	9273.9	9941.1	8060.1	7872.4	7822.1	11010.6	11657.7
55°	13159.8	13260.4	13136.3	10175.8	7289.0	8697.2	8579.8	8529.5	8190.9	6484.3
57.5°	14226.0	14256.1	14148.8	11003.9	7413.1	5421.5	8445.7	7245.4	4707.3	4683.9
60°	15332.4	15382.7	10537.9	8083.6	4750.9	1813.9	432.5	456.0	1300.9	1143.3
62.5°	16388.5	16438.8	11154.8	7386.2	3000.8	134.1	87.2	60.4	67.1	67.1
65°	17766.5	17786.6	11939.3	7818.7	3118.1	33.5	10.1	0.0	0.0	0.0
67.5°	18480.7	18068.3	12137.2	8016.6	3201.9	20.1	6.7	0.0	0.0	0.0
70°	17401.1	16958.5	11299.0	7513.6	2984.0	16.8	3.4	0.0	0.0	0.0
72.5°	15332.4	15117.8	10142.2	6662.0	2642.0	10.1	3.4	0.0	0.0	0.0
75°	12707.1	12422.2	8408.8	5552.2	2186.0	6.7	0.0	0.0	0.0	0.0
77.5°	9039.2	9072.7	5860.7	4046.8	1488.6	6.7	0.0	0.0	0.0	0.0
80°	3956.3	4046.8	2568.3	1857.5	526.4	3.4	0.0	0.0	0.0	0.0
82.5°	754.4	694.0	335.3	264.9	67.1	0.0	0.0	0.0	0.0	0.0
85°	248.1	271.6	124.1	100.6	30.2	0.0	0.0	0.0	0.0	0.0
87.5°	87.2	110.6	36.9	30.2	6.7	0.0	0.0	0.0	0.0	0.0
90°	13.4	13.4	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: P579539
 CATALOG NUMBER: CST-CA10-760-750-U-T5-HSS-HM-EX180

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)