

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: P579587

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

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579587
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-CA10-760-760-U-T5-HSS-HM-EX180
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65482 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U3 - G5

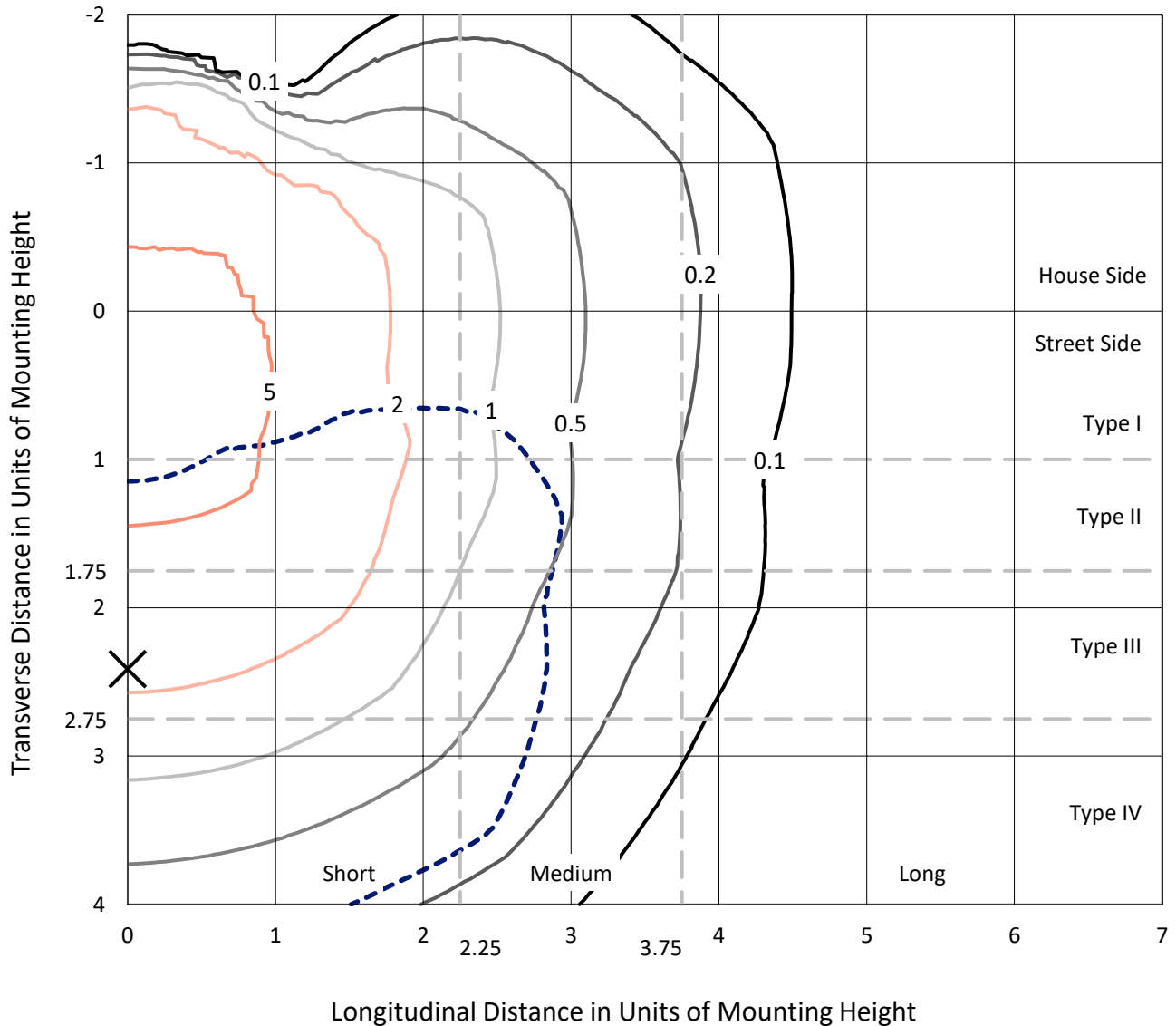
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

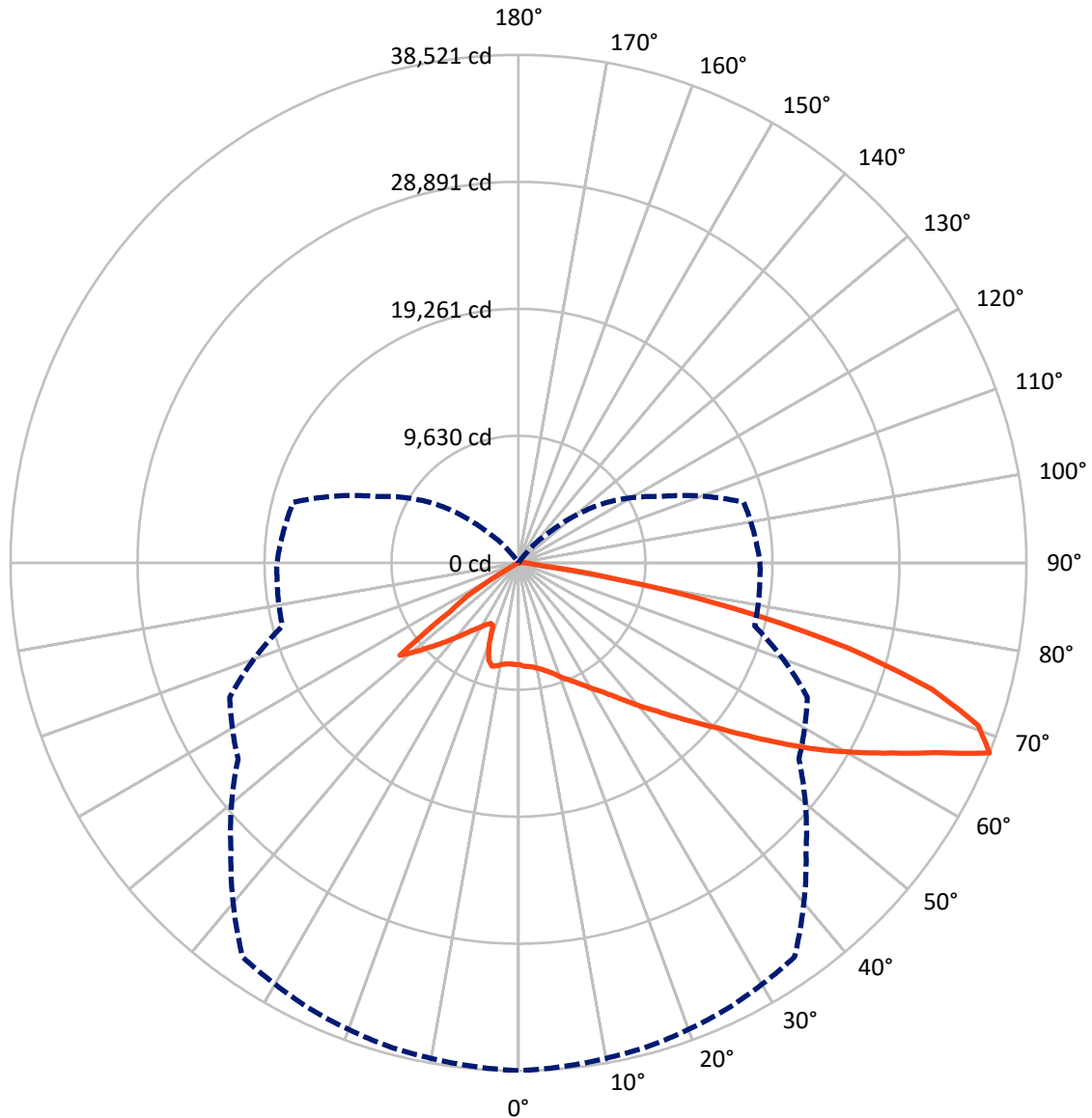
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 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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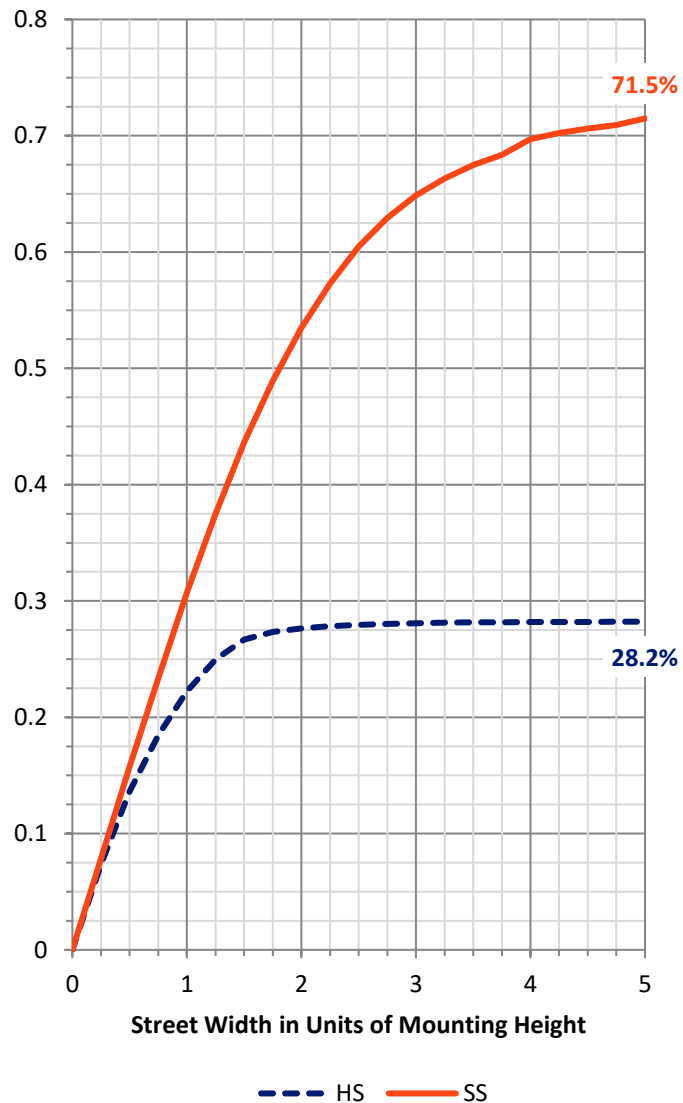
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18558.8	0.3	18559.1
	% Fixture	28.3	0.0	28.3
Street Side	Lumens	46839.5	83.4	46922.9
	% Fixture	71.5	0.1	71.7
Total	Lumens	65398.3	83.7	65482.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	743.7	1.1
10°-20°	2289.6	3.5
20°-30°	3791.1	5.8
30°-40°	5967.9	9.1
40°-50°	9339.8	14.3
50°-60°	13485.2	20.6
60°-70°	16705.8	25.5
70°-80°	12166.4	18.6
80°-90°	908.9	1.4
90°-100°	71.4	0.1
100°-110°	11.9	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°	65398.3	99.9
0°-180°	65482.0	100.0

Coefficient of Utilization

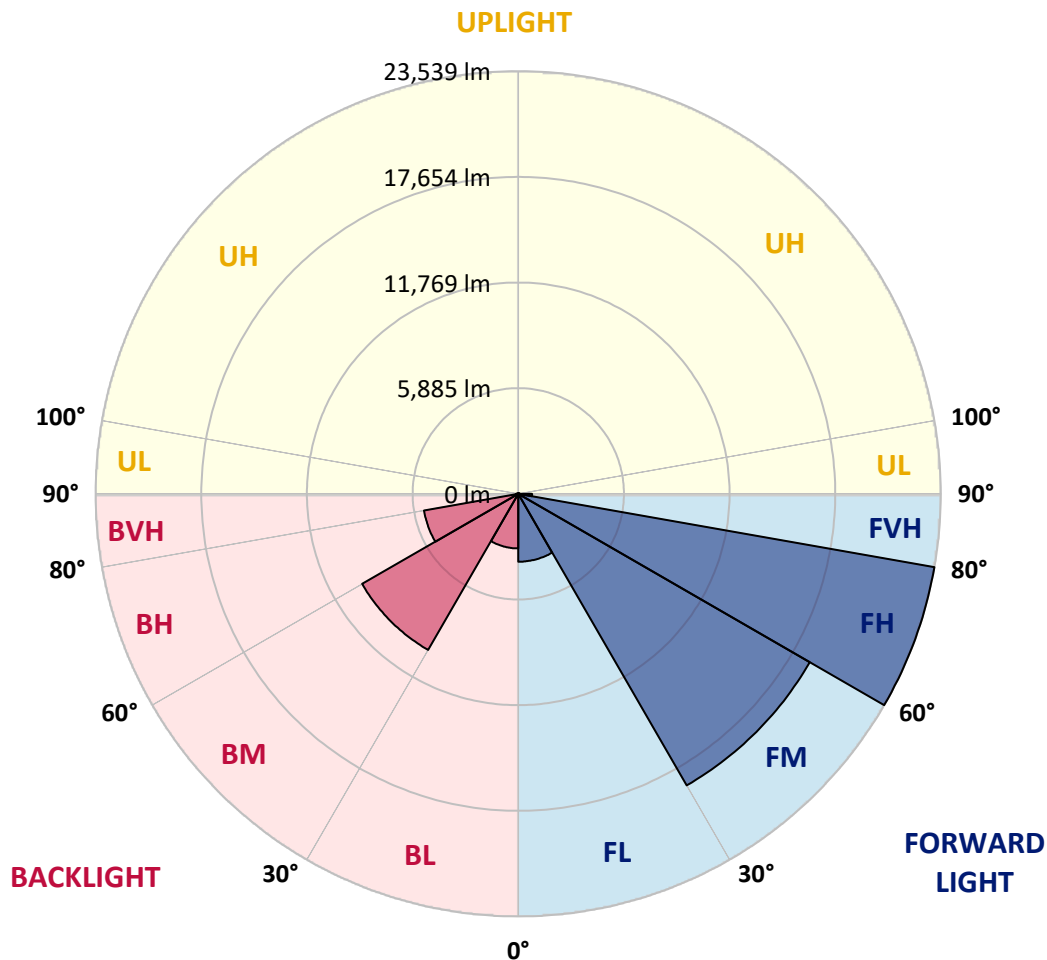


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3782.1	5.8			
FM (30°-60°)	18752.2	28.6			
FH (60°-80°)	23538.6	35.9			G5
FVH (80°-90°)	766.6	1.2			G5
BL (0°-30°)	3042.3	4.6	B4/5000		
BM (30°-60°)	10040.7	15.3	B5		
BH (60°-80°)	5333.6	8.1	B5		G5
BVH (80°-90°)	142.2	0.2			G2/225
UL (90°-100°)	71.4	0.1		U3/500	
UH (100°-180°)	12.3	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°	7712.1	7712.1	7712.1	7712.1	7712.1	7712.1	7712.1	7712.1	7712.1	7712.1	7712.1
2.5°	7853.2	7810.5	7810.5	7856.5	7728.5	7767.9	7715.4	7761.3	7735.1	7748.2	7764.6
5°	7899.2	7849.9	7853.2	7909.0	7794.1	7827.0	7764.6	7787.6	7764.6	7774.4	7774.4
7.5°	7984.5	7941.8	7941.8	7974.6	7859.8	7869.6	7813.8	7813.8	7784.3	7807.3	7787.6
10°	8145.3	8099.3	8076.4	8092.8	7991.0	7977.9	7902.4	7902.4	7856.5	7892.6	7863.1
12.5°	8338.9	8273.3	8266.7	8270.0	8155.1	8132.2	8046.8	8050.1	7964.8	8014.0	7977.9
15°	8571.9	8489.9	8483.3	8496.4	8375.0	8332.3	8237.2	8237.2	8142.0	8168.3	8119.0
17.5°	8870.5	8775.4	8759.0	8781.9	8660.5	8621.1	8509.6	8489.9	8384.9	8365.2	8322.5
20°	9264.4	9156.1	9123.2	9172.5	9018.2	8982.1	8847.6	8804.9	8663.8	8430.8	8125.6
22.5°	9618.8	9533.5	9513.8	9546.6	9405.5	9369.4	9238.1	9149.5	8808.2	8338.9	8056.7
25°	10022.4	9989.6	9979.8	9960.1	9832.1	9769.7	9645.0	9520.3	8745.8	8102.6	8096.1
27.5°	10521.3	10504.9	10458.9	10442.5	10301.4	10262.0	10097.9	9293.9	8522.7	8476.7	8450.5
30°	11066.0	11033.2	10987.3	10990.6	10895.4	10823.2	10432.7	9093.7	8952.6	8952.6	8883.7
32.5°	11669.9	11633.8	11587.8	11597.7	11558.3	11495.9	10321.1	9622.1	9513.8	9543.3	9458.0
35°	12418.1	12359.0	12342.6	12382.0	12385.3	11981.6	10518.0	10340.8	10255.4	10235.8	9914.1
37.5°	13291.1	13241.8	13300.9	13392.8	13287.8	12106.3	11302.3	11246.5	11161.2	10685.4	9924.0
40°	14337.9	14249.3	14321.5	14380.6	14311.7	12848.0	12126.0	12145.7	12070.2	10659.1	9815.7
42.5°	15375.0	15289.6	15352.0	15499.7	15473.4	13766.9	13130.3	13172.9	12411.5	10721.5	10655.8
45°	16658.1	16628.6	16608.9	16730.3	16832.1	14866.3	14321.5	14318.2	12168.7	11712.5	11653.5
47.5°	18111.9	18072.6	18082.4	18236.6	18390.9	16179.0	15729.4	14410.1	12795.5	12841.5	12788.9
50°	19733.1	19690.5	19818.4	20041.6	20120.4	17652.5	17101.2	14160.7	14101.6	14150.9	14062.3
52.5°	21790.8	21695.6	21892.5	22132.1	22233.8	19395.1	17176.6	15634.2	15535.8	15545.6	15263.4
55°	24130.6	24055.2	24232.4	24501.5	24652.4	21341.2	18745.3	17068.3	17009.3	15335.6	13809.6
57.5°	26674.0	26588.7	26825.0	26903.7	26943.1	23352.9	20323.8	18623.9	15890.2	14003.2	13917.9
60°	29168.1	29076.2	29374.9	29388.0	29502.9	25361.3	21823.6	20123.6	15309.3	15059.9	14987.7
62.5°	31787.0	31672.1	31934.6	31924.8	31698.3	27199.1	23310.2	21564.3	16346.4	16149.5	16037.9
65°	34694.6	34609.3	34793.0	34497.7	34048.1	29099.2	24852.6	23133.0	17554.0	17517.9	17491.7
67.5°	38521.1	38353.7	37982.9	37352.8	36493.0	30841.8	25955.3	24166.7	18535.3	18367.9	18315.4
70°	36982.0	36785.0	36502.8	35810.4	34934.1	29204.2	24183.2	22604.6	17330.9	17337.4	17212.7
72.5°	32745.2	32403.9	32138.1	31166.7	30684.3	25505.7	21072.1	19618.3	14991.0	15269.9	15210.9
75°	25830.6	25482.7	25046.3	24665.6	24613.1	20688.1	16989.6	15942.7	11952.1	12155.6	12303.3
77.5°	16743.4	16615.5	17166.8	16805.8	17130.7	14246.0	12135.9	11236.7	8237.2	8752.4	8683.5
80°	7662.9	7515.2	8401.3	8151.8	8273.3	6996.7	5930.1	5697.1	3728.1	3754.3	3833.1
82.5°	1732.8	1673.7	1736.0	1594.9	1555.5	1316.0	1158.5	1050.2	659.6	699.0	735.1
85°	948.4	948.4	935.3	869.7	745.0	613.7	485.7	374.1	203.5	223.2	219.9
87.5°	666.2	649.8	646.5	577.6	495.5	420.1	334.7	239.6	114.9	78.8	72.2
90°	456.2	449.6	426.6	384.0	331.5	272.4	203.5	118.1	49.2	23.0	16.4
92.5°	331.5	324.9	308.5	272.4	226.4	183.8	134.6	78.8	39.4	16.4	3.3
95°	219.9	216.6	206.7	177.2	147.7	118.1	85.3	49.2	32.8	13.1	3.3
97.5°	151.0	147.7	137.8	118.1	95.2	75.5	52.5	36.1	26.3	9.8	3.3
100°	101.7	98.5	91.9	75.5	59.1	45.9	32.8	26.3	19.7	9.8	3.3
102.5°	65.6	62.4	55.8	45.9	32.8	26.3	23.0	19.7	13.1	6.6	3.3
105°	39.4	36.1	29.5	23.0	19.7	16.4	16.4	13.1	9.8	3.3	3.3
107.5°	19.7	16.4	13.1	13.1	13.1	9.8	9.8	9.8	6.6	3.3	0.0
110°	3.3	3.3	6.6	6.6	6.6	6.6	6.6	6.6	6.6	3.3	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°	7712.1	7712.1	7712.1	7712.1	7712.1	7712.1	7712.1	7712.1	7712.1	7712.1
2.5°	7748.2	7695.7	7725.2	7679.3	7669.4	7620.2	7699.0	7708.8	7702.2	7715.4
5°	7758.0	7702.2	7735.1	7679.3	7679.3	7626.8	7702.2	7702.2	7682.6	7689.1
7.5°	7784.3	7728.5	7751.5	7689.1	7692.4	7630.1	7721.9	7712.1	7695.7	7718.7
10°	7859.8	7797.4	7794.1	7735.1	7748.2	7682.6	7797.4	7797.4	7781.0	7823.7
12.5°	7981.2	7889.3	7872.9	7800.7	7827.0	7771.2	7912.3	7918.8	7922.1	7991.0
15°	8109.2	7997.6	8014.0	7928.7	7918.8	7889.3	8017.3	8010.7	8007.5	8102.6
17.5°	8289.7	7764.6	7679.3	7620.2	7607.1	7534.9	7653.0	7879.5	7761.3	7695.7
20°	8004.2	7728.5	7390.5	7275.6	7252.7	6625.8	6130.3	6353.5	6655.4	6681.6
22.5°	7744.9	7646.5	7620.2	7439.7	6438.8	6228.7	6248.4	6166.4	5451.0	5139.2
25°	8066.5	7981.2	7869.6	6767.0	6530.7	6455.2	6432.2	5592.1	5027.6	5063.7
27.5°	8424.2	8329.1	7357.7	6783.4	6835.9	6730.9	6212.3	5218.0	5185.2	5247.5
30°	8870.5	8109.2	7180.5	7147.6	7196.9	7062.3	5519.9	5447.7	5437.8	5503.5
32.5°	9379.2	7820.4	7653.0	7653.0	7630.1	6176.2	5815.2	5766.0	5792.3	5861.2
35°	9188.9	8273.3	8253.6	8335.6	7784.3	6337.0	6287.8	6202.5	6222.2	6245.2
37.5°	8978.8	9018.2	9028.1	8985.4	5677.4	6796.5	6757.1	6740.7	6721.0	6727.6
40°	9759.9	9786.2	9776.3	9385.8	6127.0	6885.1	7288.7	7259.2	7255.9	7295.3
42.5°	10672.2	10744.4	10688.6	8279.8	6727.6	5789.0	7902.4	7886.0	7879.5	7961.5
45°	11699.4	11768.3	10596.7	8867.3	7367.5	5992.5	7945.1	8555.5	8604.7	8676.9
47.5°	12811.9	12798.8	9779.6	9769.7	8119.0	6556.9	6606.1	9356.2	9438.3	9464.5
50°	14091.8	11988.2	10708.3	10347.3	8969.0	7190.3	7003.2	8585.0	10396.6	10422.8
52.5°	13819.4	11860.2	11774.9	9077.3	9730.4	7889.3	7705.5	7656.3	10777.2	11410.6
55°	12880.8	12979.3	12857.9	9960.1	7134.5	8512.8	8398.0	8348.8	8017.3	6346.9
57.5°	13924.4	13954.0	13849.0	10770.7	7255.9	5306.6	8266.7	7091.8	4607.6	4584.6
60°	15007.4	15056.6	10314.5	7912.3	4650.2	1775.4	423.3	446.3	1273.3	1119.1
62.5°	16041.2	16090.4	10918.4	7229.7	2937.2	131.3	85.3	59.1	65.6	65.6
65°	17390.0	17409.6	11686.3	7653.0	3052.0	32.8	9.8	0.0	0.0	0.0
67.5°	18089.0	17685.3	11879.9	7846.6	3134.1	19.7	6.6	0.0	0.0	0.0
70°	17032.2	16599.1	11059.5	7354.4	2920.8	16.4	3.3	0.0	0.0	0.0
72.5°	15007.4	14797.4	9927.3	6520.8	2586.0	9.8	3.3	0.0	0.0	0.0
75°	12437.8	12158.9	8230.6	5434.6	2139.7	6.6	0.0	0.0	0.0	0.0
77.5°	8847.6	8880.4	5736.5	3961.1	1457.1	6.6	0.0	0.0	0.0	0.0
80°	3872.5	3961.1	2513.8	1818.1	515.2	3.3	0.0	0.0	0.0	0.0
82.5°	738.4	679.3	328.2	259.3	65.6	0.0	0.0	0.0	0.0	0.0
85°	242.8	265.8	121.4	98.5	29.5	0.0	0.0	0.0	0.0	0.0
87.5°	85.3	108.3	36.1	29.5	6.6	0.0	0.0	0.0	0.0	0.0
90°	13.1	13.1	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



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 CATALOG NUMBER: CST-CA10-760-760-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)