

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: P579526

Luminaire Tested: **CST-CA10-310-750-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-310-750-U-T5-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: 36273 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U2 - G5

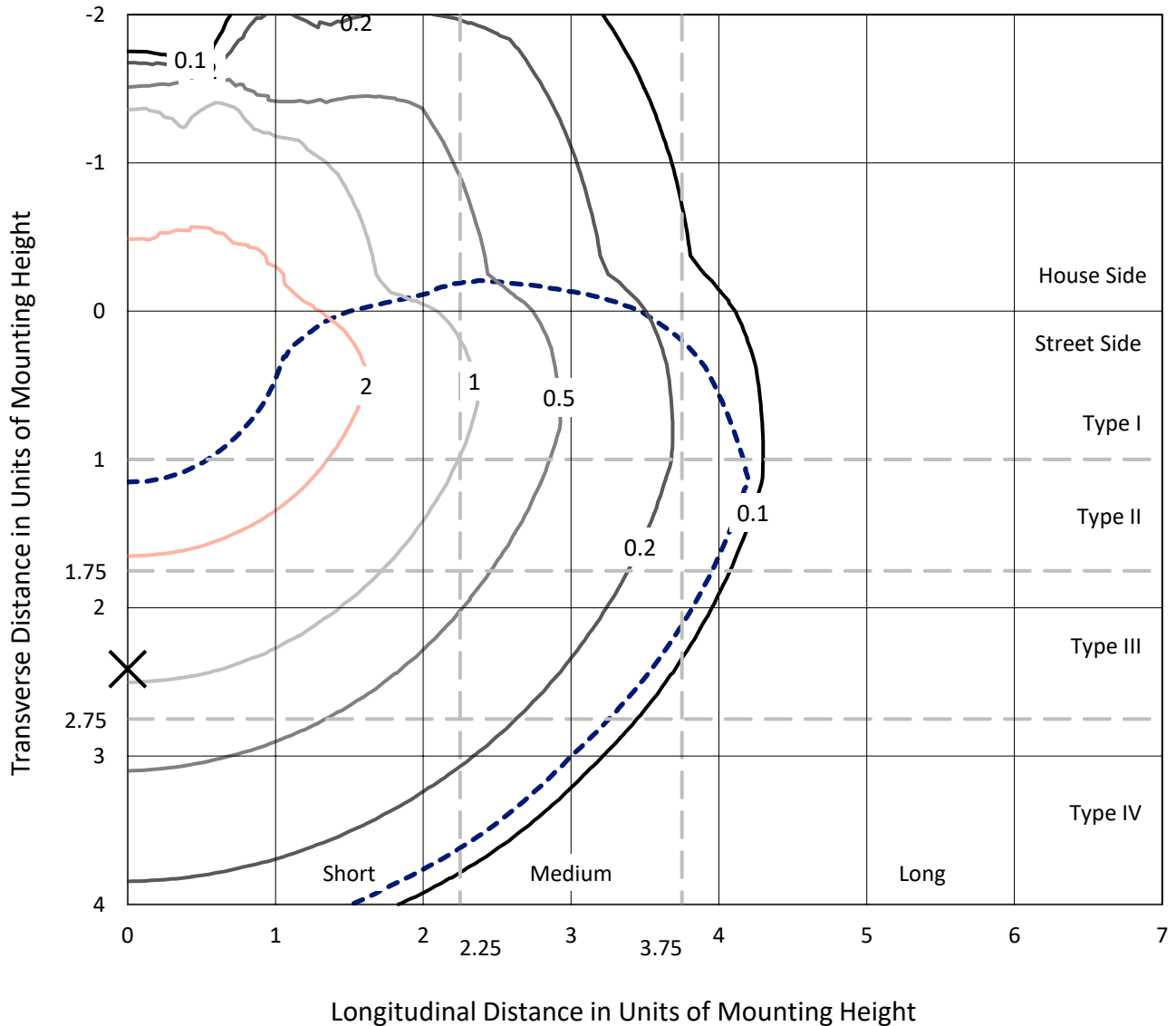
Input Watts (W): 312.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P579526
 CATALOG NUMBER: CST-CA10-310-750-U-T5-HSS-HM-EX120

Iso-Footcandle Lines of Horizontal Illumination

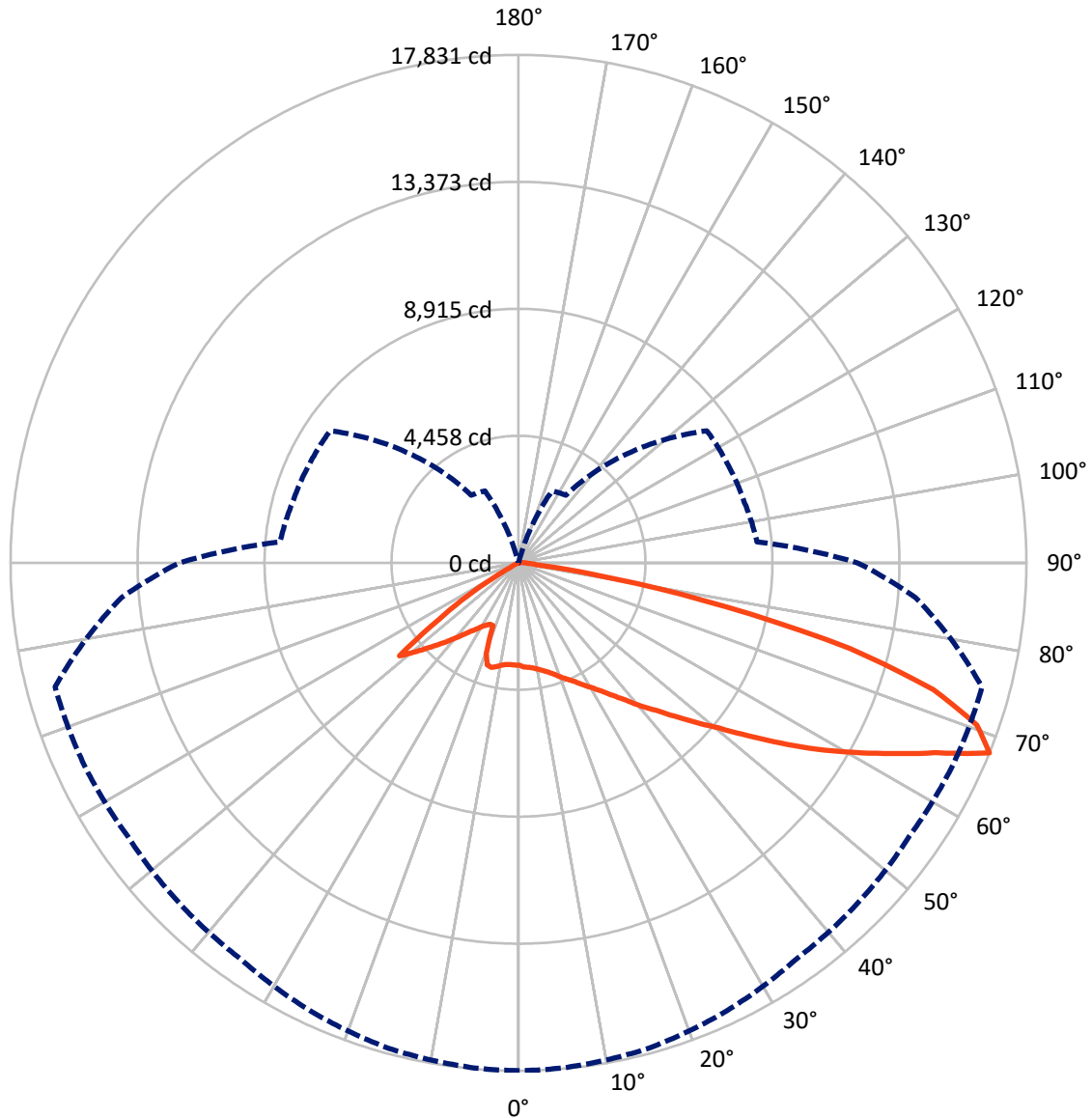
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

REPORT NUMBER: P579526
CATALOG NUMBER: CST-CA10-310-750-U-T5-HSS-HM-EX120

Luminous Intensity Polar Plot



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

REPORT NUMBER: P579526
 CATALOG NUMBER: CST-CA10-310-750-U-T5-HSS-HM-EX120

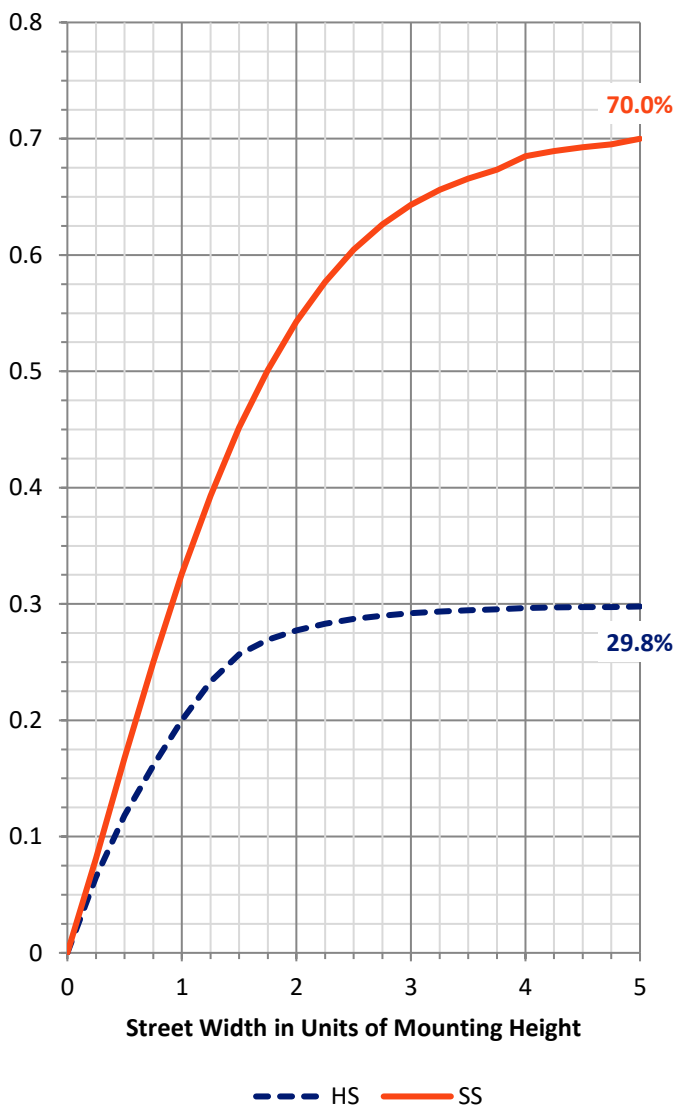
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10827.7	3.6	10831.3
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	25400.8	40.8	25441.7
	% Fixture	70.0	0.1	70.1
Total	Lumens	36228.5	44.5	36273.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.5	1.0
10°-20°	1072.7	3.0
20°-30°	1800.3	5.0
30°-40°	2919.2	8.0
40°-50°	4770.3	13.2
50°-60°	7476.0	20.6
60°-70°	10012.6	27.6
70°-80°	7297.9	20.1
80°-90°	532.9	1.5
90°-100°	34.1	0.1
100°-110°	9.7	0.0
110°-120°	0.7	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°	36228.5	99.9
0°-180°	36273.0	100.0

Coefficient of Utilization

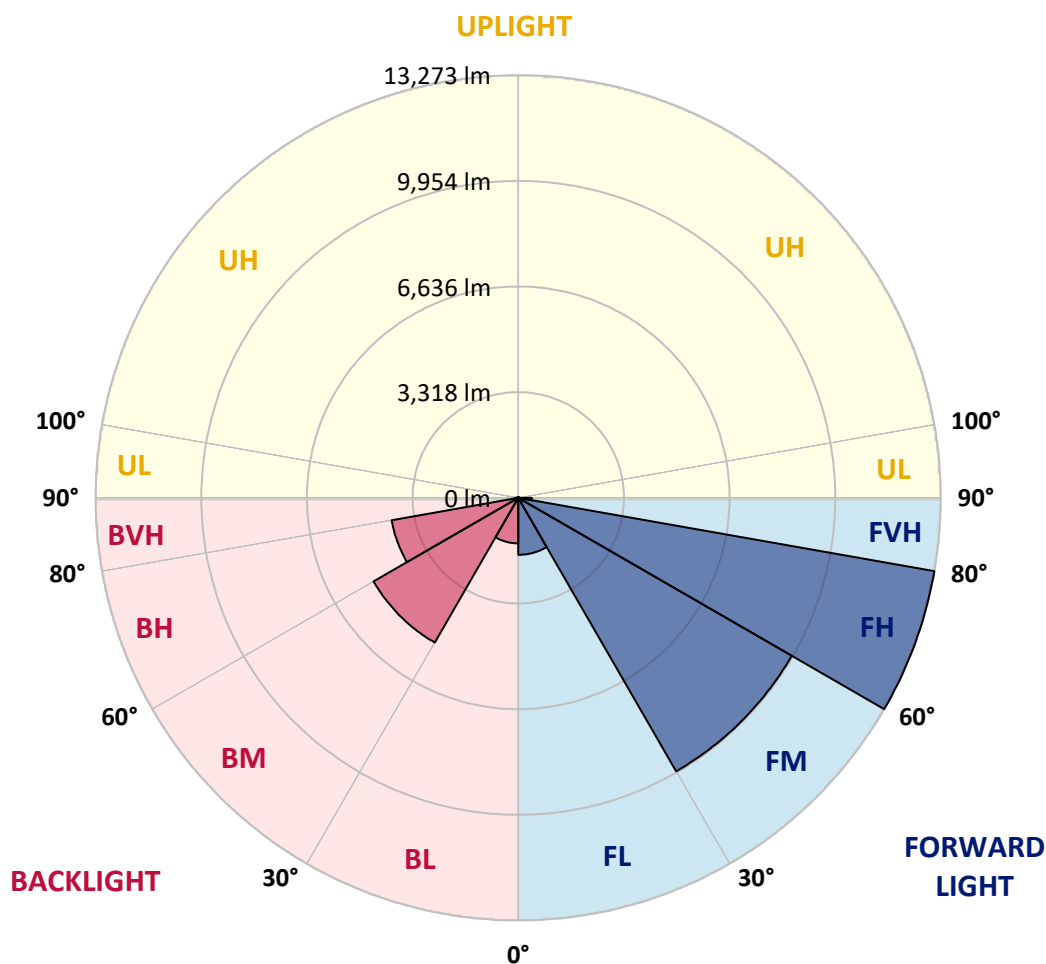


REPORT NUMBER: P579526
 CATALOG NUMBER: CST-CA10-310-750-U-T5-HSS-HM-EX120

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1789.2	4.9			
FM (30°-60°)	9917.7	27.3			
FH (60°-80°)	13272.5	36.6			G5
FVH (80°-90°)	421.4	1.2			G3/500
BL (0°-30°)	1430.4	3.9	B3/2500		
BM (30°-60°)	5247.9	14.5	B4/8500		
BH (60°-80°)	4038.0	11.1	B4/5000		G4/5000
BVH (80°-90°)	111.5	0.3			G2/225
UL (90°-100°)	34.1	0.1		U2/50	
UH (100°-180°)	10.4	0.0		U2/50	

BUG Rating: B4-U2-G5
 Type IV Short





REPORT NUMBER: P579526

CATALOG NUMBER: CST-CA10-310-750-U-T5-HSS-HM-EX120

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2
2.5°	3662.9	3641.5	3643.0	3662.9	3603.4	3623.2	3597.3	3617.1	3603.4	3608.0	3617.1
5°	3685.7	3662.9	3664.4	3688.8	3635.4	3652.2	3617.1	3627.8	3615.6	3621.7	3621.7
7.5°	3731.5	3705.6	3704.0	3719.3	3664.4	3670.5	3638.5	3640.0	3621.7	3633.9	3627.8
10°	3800.1	3778.8	3763.5	3772.7	3723.9	3720.8	3679.6	3681.2	3658.3	3672.0	3661.3
12.5°	3884.0	3855.0	3852.0	3855.0	3801.6	3789.4	3746.7	3749.8	3708.6	3730.0	3717.8
15°	3990.7	3945.0	3945.0	3961.7	3893.1	3884.0	3832.1	3835.2	3792.5	3809.3	3797.1
17.5°	4121.9	4077.6	4070.0	4082.2	4022.7	4010.5	3957.2	3954.1	3906.8	3911.4	3900.7
20°	4291.1	4246.9	4228.6	4259.1	4184.4	4175.2	4111.2	4105.1	4054.8	4041.0	4034.9
22.5°	4448.2	4413.1	4404.0	4437.5	4359.8	4352.1	4291.1	4283.5	4236.2	4216.4	4095.9
25°	4625.1	4617.5	4614.4	4625.1	4551.9	4536.6	4489.4	4478.7	4439.0	4414.6	4268.3
27.5°	4853.8	4850.8	4841.6	4843.2	4776.1	4762.3	4718.1	4710.5	4669.3	4641.9	4454.3
30°	5093.2	5093.2	5073.4	5084.1	5050.5	5029.2	4994.1	4966.7	4940.7	4911.8	4675.4
32.5°	5369.2	5367.7	5349.4	5381.4	5357.0	5357.0	5335.7	5306.7	5261.0	5247.3	4960.6
35°	5724.6	5701.7	5694.1	5745.9	5738.3	5752.0	5744.4	5713.9	5675.8	5643.7	5296.1
37.5°	6118.0	6111.9	6134.8	6166.8	6183.6	6220.2	6197.3	6195.8	6189.7	6108.8	5206.1
40°	6602.9	6577.0	6609.0	6625.8	6613.6	6673.1	6653.2	6670.0	6715.8	6066.1	5200.0
42.5°	7086.3	7063.4	7086.3	7168.7	7150.4	7222.0	7212.9	7278.5	7304.4	6156.1	5622.4
45°	7681.0	7655.1	7673.4	7771.0	7780.1	7867.1	7914.3	7976.9	7989.1	6738.6	6131.7
47.5°	8364.2	8321.5	8356.6	8402.3	8541.1	8623.4	8669.2	8745.4	8823.2	7440.1	6711.2
50°	9117.5	9114.5	9152.6	9231.9	9390.5	9472.8	9552.1	9631.4	9759.5	8222.4	7360.8
52.5°	10075.2	10055.3	10120.9	10195.6	10335.9	10462.5	10557.0	10639.4	10776.6	9013.8	8063.8
55°	11170.1	11101.4	11226.5	11353.0	11412.5	11562.0	11627.5	11696.1	11827.3	9846.4	8474.0
57.5°	12351.9	12335.1	12422.0	12467.8	12595.9	12688.9	12723.9	12798.7	12797.1	10712.6	9172.4
60°	13515.4	13497.1	13599.3	13626.7	13728.9	13812.7	13800.5	13867.6	13892.0	11525.4	9857.1
62.5°	14739.9	14709.4	14803.9	14810.0	14749.0	14884.8	14871.0	14927.5	14906.1	12319.8	10531.1
65°	16078.8	16101.6	16132.1	16007.1	15860.7	15978.1	15975.1	16081.8	16158.1	13430.0	11433.9
67.5°	17830.9	17801.9	17644.9	17342.9	16987.6	16868.7	16742.1	16819.9	16841.2	13982.0	11895.9
70°	17074.5	17010.5	16940.4	16632.3	16203.8	15901.9	15705.2	15787.5	15874.4	13213.4	11173.1
72.5°	15230.9	15072.3	14746.0	14474.6	14227.5	13933.2	13693.8	13837.1	14027.8	11720.5	9893.7
75°	12016.4	11868.5	11630.6	11446.1	11313.4	11310.3	11299.7	11411.0	11383.5	9517.0	8044.0
77.5°	7441.6	7751.2	7970.8	7813.7	7868.6	7755.8	8004.3	8150.7	8283.4	6822.5	5730.7
80°	3435.6	3514.9	3903.8	3803.2	3722.3	3699.5	3714.7	3969.4	4044.1	3062.0	2564.9
82.5°	783.8	751.8	779.2	722.8	719.8	686.2	690.8	690.8	666.4	564.2	472.7
85°	396.5	405.6	408.7	391.9	346.2	311.1	288.2	244.0	210.4	179.9	152.5
87.5°	265.3	273.0	277.5	254.7	228.7	199.8	181.5	147.9	117.4	73.2	56.4
90°	181.5	179.9	175.4	163.2	146.4	125.0	100.6	70.1	41.2	15.2	10.7
92.5°	129.6	126.6	125.0	114.4	102.2	85.4	65.6	44.2	22.9	10.7	6.1
95°	85.4	83.9	83.9	77.8	68.6	56.4	44.2	29.0	16.8	9.1	6.1
97.5°	59.5	57.9	57.9	54.9	48.8	41.2	30.5	19.8	13.7	9.1	6.1
100°	41.2	41.2	41.2	38.1	35.1	29.0	22.9	15.2	12.2	9.1	6.1
102.5°	27.4	27.4	29.0	27.4	24.4	19.8	15.2	12.2	10.7	7.6	6.1
105°	18.3	18.3	18.3	18.3	16.8	13.7	12.2	10.7	9.1	7.6	6.1
107.5°	12.2	12.2	12.2	12.2	10.7	9.1	9.1	9.1	7.6	7.6	6.1
110°	7.6	7.6	7.6	9.1	7.6	7.6	7.6	7.6	7.6	6.1	6.1



REPORT NUMBER: P579526
 CATALOG NUMBER: CST-CA10-310-750-U-T5-HSS-HM-EX120

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



REPORT NUMBER: P579526

CATALOG NUMBER: CST-CA10-310-750-U-T5-HSS-HM-EX120

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2
2.5°	3609.5	3588.1	3598.8	3577.5	3568.3	3548.5	3586.6	3589.7	3586.6	3592.7
5°	3614.1	3589.7	3601.9	3577.5	3572.9	3550.0	3588.1	3588.1	3579.0	3583.6
7.5°	3624.7	3598.8	3608.0	3579.0	3579.0	3551.5	3597.3	3594.2	3586.6	3597.3
10°	3661.3	3630.8	3630.8	3603.4	3606.4	3577.5	3633.9	3633.9	3627.8	3646.1
12.5°	3717.8	3679.6	3681.2	3643.0	3649.1	3626.3	3694.9	3697.9	3697.9	3728.4
15°	3791.0	3733.0	3739.1	3697.9	3710.1	3682.7	3743.7	3740.6	3748.3	3792.5
17.5°	3880.9	3816.9	3763.5	3629.3	3550.0	3553.1	3734.5	3818.4	3720.8	3749.8
20°	3919.0	3608.0	3438.7	3389.9	3379.2	3210.0	2863.8	2917.2	3243.5	3385.3
22.5°	3662.9	3563.7	3547.0	3484.4	3022.4	2894.3	2915.7	2885.2	2564.9	2383.5
25°	3787.9	3722.3	3684.2	3133.7	3030.0	3007.1	2991.9	2702.2	2354.5	2371.3
27.5°	3964.8	3879.4	3421.9	3147.4	3167.3	3132.2	3043.7	2430.7	2420.1	2447.5
30°	4173.7	3958.7	3335.0	3309.1	3332.0	3286.2	2558.8	2534.4	2534.4	2561.9
32.5°	4429.9	3591.2	3539.3	3542.4	3527.1	3008.7	2693.0	2686.9	2705.2	2728.1
35°	4358.2	3830.6	3835.2	3861.1	3826.0	2943.1	2903.5	2880.6	2895.8	2905.0
37.5°	4217.9	4190.5	4190.5	4161.5	3266.4	3173.4	3130.7	3127.6	3126.1	3126.1
40°	4571.7	4545.8	4513.8	4463.4	3417.3	3441.7	3377.7	3370.1	3374.7	3391.4
42.5°	4974.3	4963.6	4960.6	3830.6	3731.5	3749.8	3681.2	3661.3	3661.3	3699.5
45°	5448.5	5434.8	5097.8	4094.4	4077.6	4099.0	4022.7	3975.5	4001.4	4028.8
47.5°	5992.9	5992.9	4513.8	4489.4	4489.4	4501.6	4425.3	4361.3	4387.2	4396.3
50°	6589.2	5657.5	4966.7	4943.8	4965.1	4959.0	4879.7	4285.0	4835.5	4840.1
52.5°	6755.4	5501.9	5463.8	5437.9	5463.8	5459.2	5376.9	3574.4	5230.5	5305.2
55°	5988.4	5992.9	5985.3	5947.2	5974.6	5964.0	5883.1	3902.3	3856.5	3437.2
57.5°	6474.8	6480.9	6477.9	6471.8	6496.2	4719.6	6093.6	3525.6	2153.2	2154.7
60°	7004.0	6973.5	6964.3	6950.6	5890.8	3345.7	2539.0	245.5	841.8	829.6
62.5°	7484.3	7473.6	7441.6	7434.0	4998.7	2635.1	2574.1	56.4	44.2	42.7
65°	8152.2	8057.7	8031.8	7950.9	5328.1	2805.9	2747.9	16.8	1.5	0.0
67.5°	8400.8	8208.7	8115.6	8072.9	5421.1	2894.3	2783.0	16.8	1.5	0.0
70°	7931.1	7693.2	7575.8	7528.5	5065.8	2705.2	2595.4	16.8	1.5	0.0
72.5°	7032.9	6857.6	6810.3	6659.3	4466.5	2374.3	2278.2	16.8	0.0	0.0
75°	5768.8	5704.7	5646.8	5486.7	3630.8	1886.3	1800.9	15.2	0.0	0.0
77.5°	4198.1	4103.6	3996.8	3823.0	2450.5	1232.1	1187.9	13.7	0.0	0.0
80°	1892.4	1814.7	1788.7	1517.3	869.2	401.1	353.8	12.2	0.0	0.0
82.5°	367.5	330.9	314.1	301.9	195.2	108.3	94.5	9.1	0.0	0.0
85°	125.0	138.8	161.6	178.4	109.8	65.6	54.9	6.1	0.0	0.0
87.5°	48.8	65.6	79.3	82.3	41.2	27.4	15.2	3.0	0.0	0.0
90°	9.1	12.2	10.7	7.6	4.6	1.5	0.0	0.0	0.0	0.0
92.5°	4.6	6.1	4.6	4.6	3.0	1.5	0.0	0.0	0.0	0.0
95°	6.1	6.1	6.1	4.6	3.0	1.5	0.0	0.0	0.0	0.0
97.5°	6.1	6.1	6.1	4.6	3.0	1.5	0.0	0.0	0.0	0.0
100°	6.1	6.1	6.1	4.6	3.0	1.5	0.0	0.0	0.0	0.0
102.5°	6.1	6.1	6.1	4.6	3.0	1.5	0.0	0.0	0.0	0.0
105°	6.1	7.6	6.1	4.6	3.0	1.5	0.0	0.0	0.0	0.0
107.5°	6.1	7.6	6.1	4.6	3.0	1.5	0.0	0.0	0.0	0.0
110°	6.1	7.6	6.1	4.6	3.0	1.5	0.0	0.0	0.0	0.0



REPORT NUMBER: P579526
 CATALOG NUMBER: CST-CA10-310-750-U-T5-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)