

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: P579604

Luminaire Tested: **CST-CA8-330-760-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579604  
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-CA8-330-760-U-T5-HSS-HM-EX120  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (8) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35868 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U2 - G5

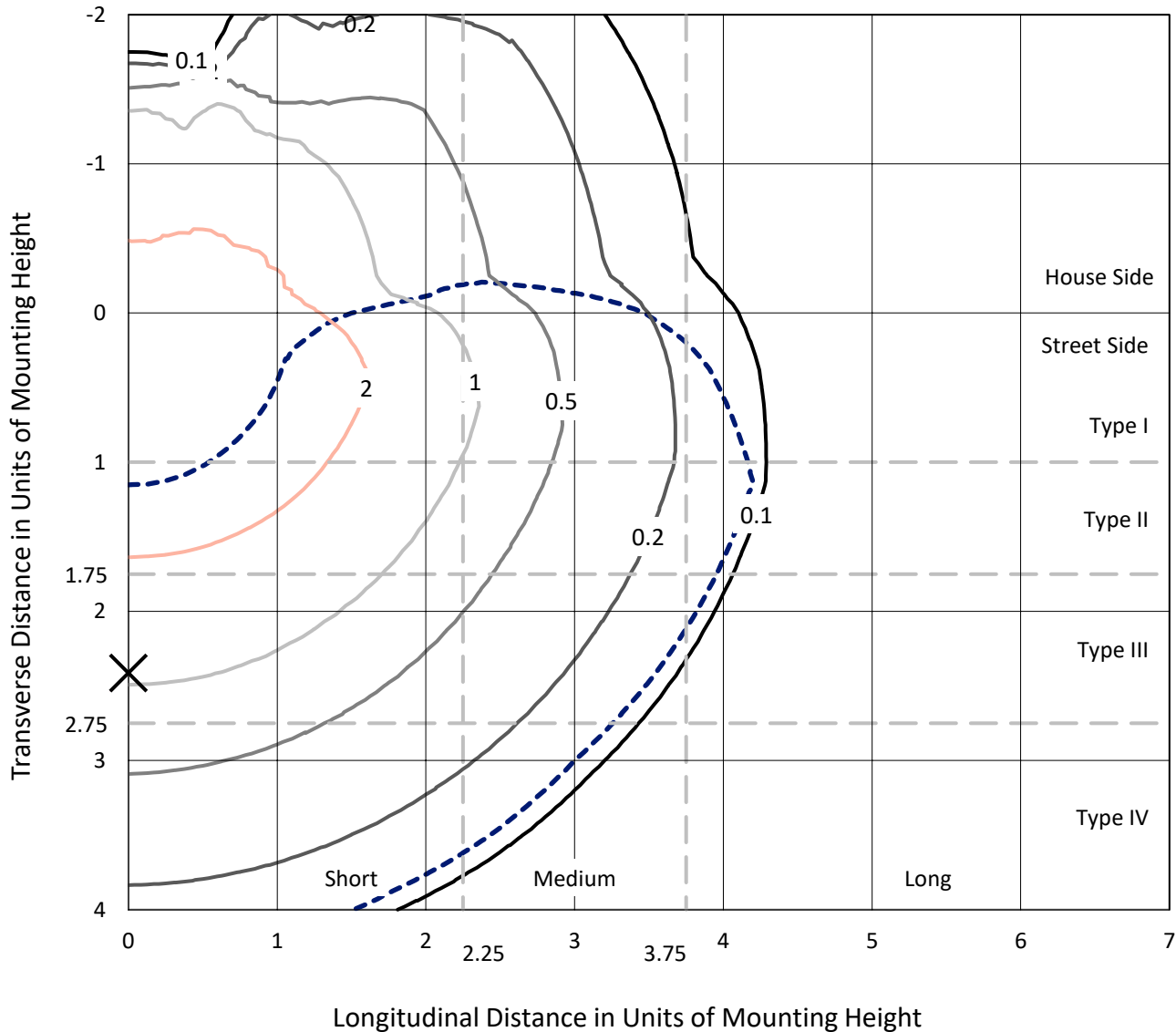
Input Watts (W): 331.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

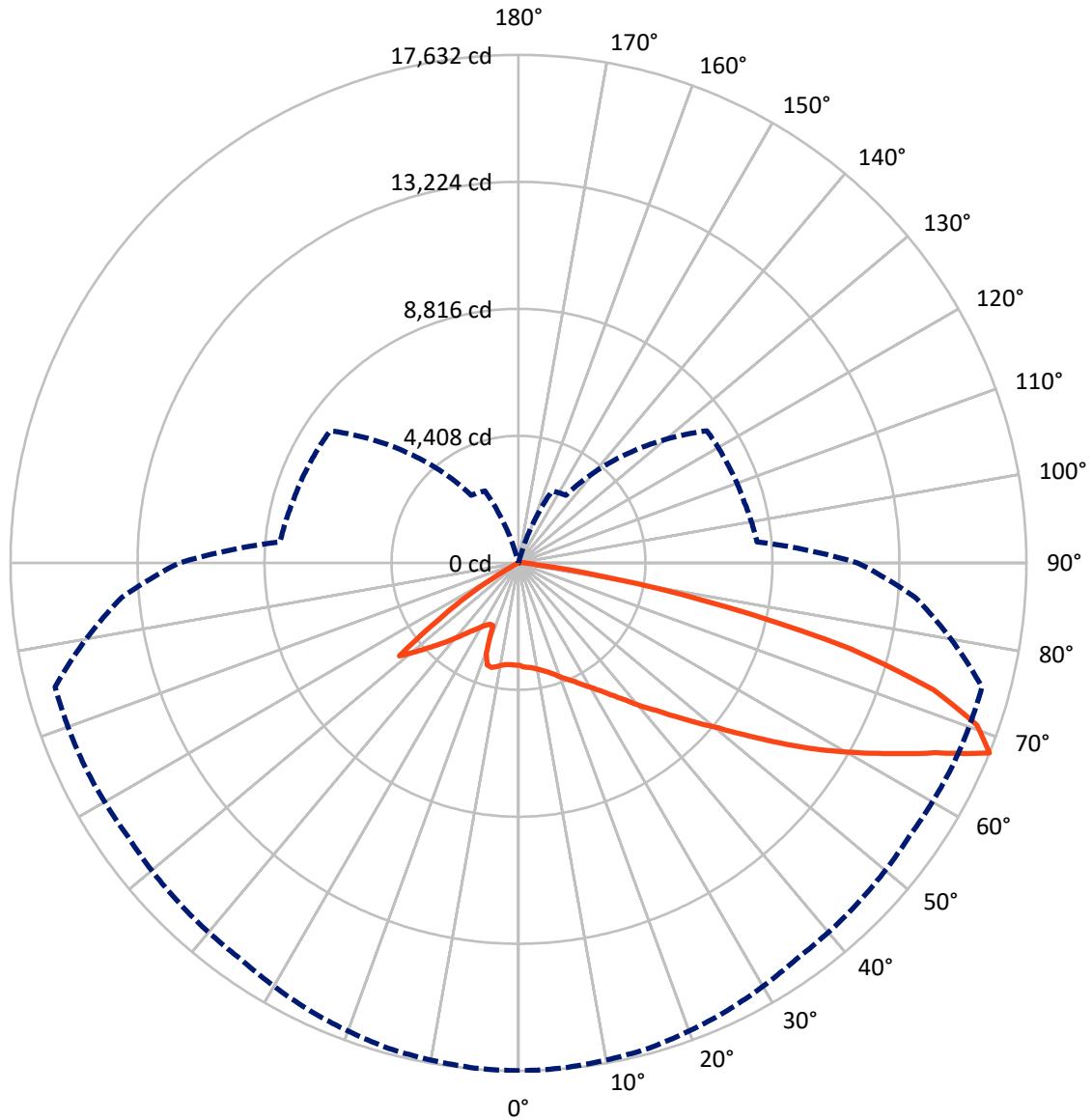
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 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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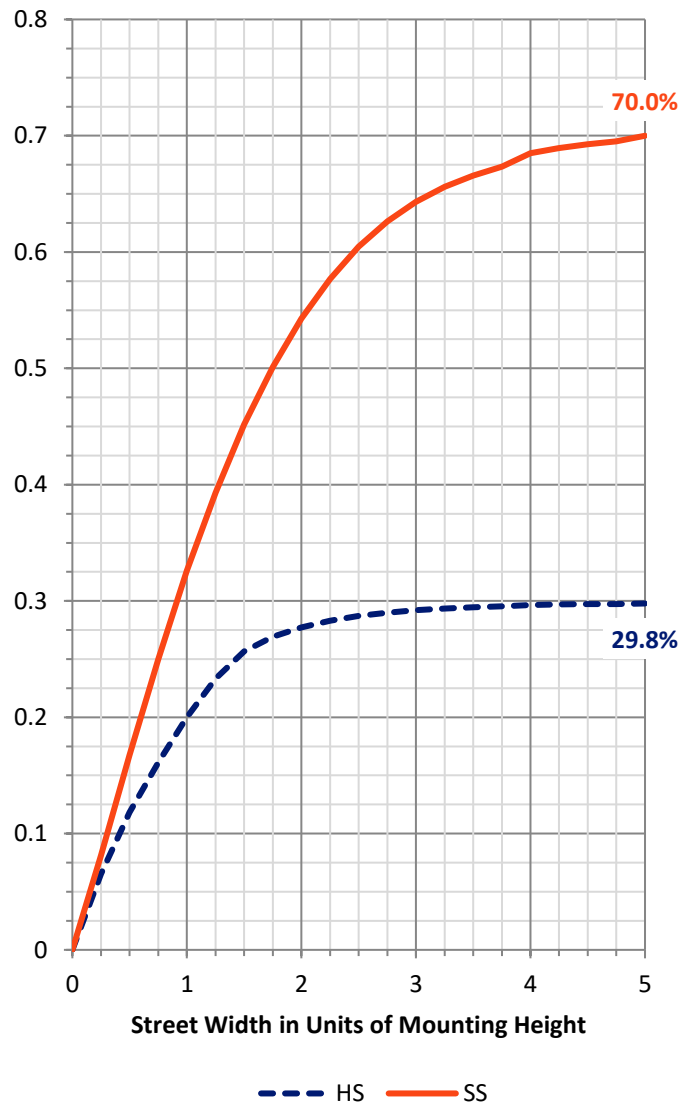
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10706.8	3.6	10710.4
	% Fixture	29.9	0.0	29.9
<b>Street Side</b>	Lumens	25117.2	40.4	25157.6
	% Fixture	70.0	0.1	70.1
<b>Total</b>	Lumens	35824.0	43.9	35868.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.6	1.0
10°-20°	1060.8	3.0
20°-30°	1780.2	5.0
30°-40°	2886.6	8.0
40°-50°	4717.1	13.2
50°-60°	7392.5	20.6
60°-70°	9900.8	27.6
70°-80°	7216.4	20.1
80°-90°	527.0	1.5
90°-100°	33.7	0.1
100°-110°	9.6	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°	35824.0	99.9
0°-180°	35868.0	100.0

**Coefficient of Utilization**



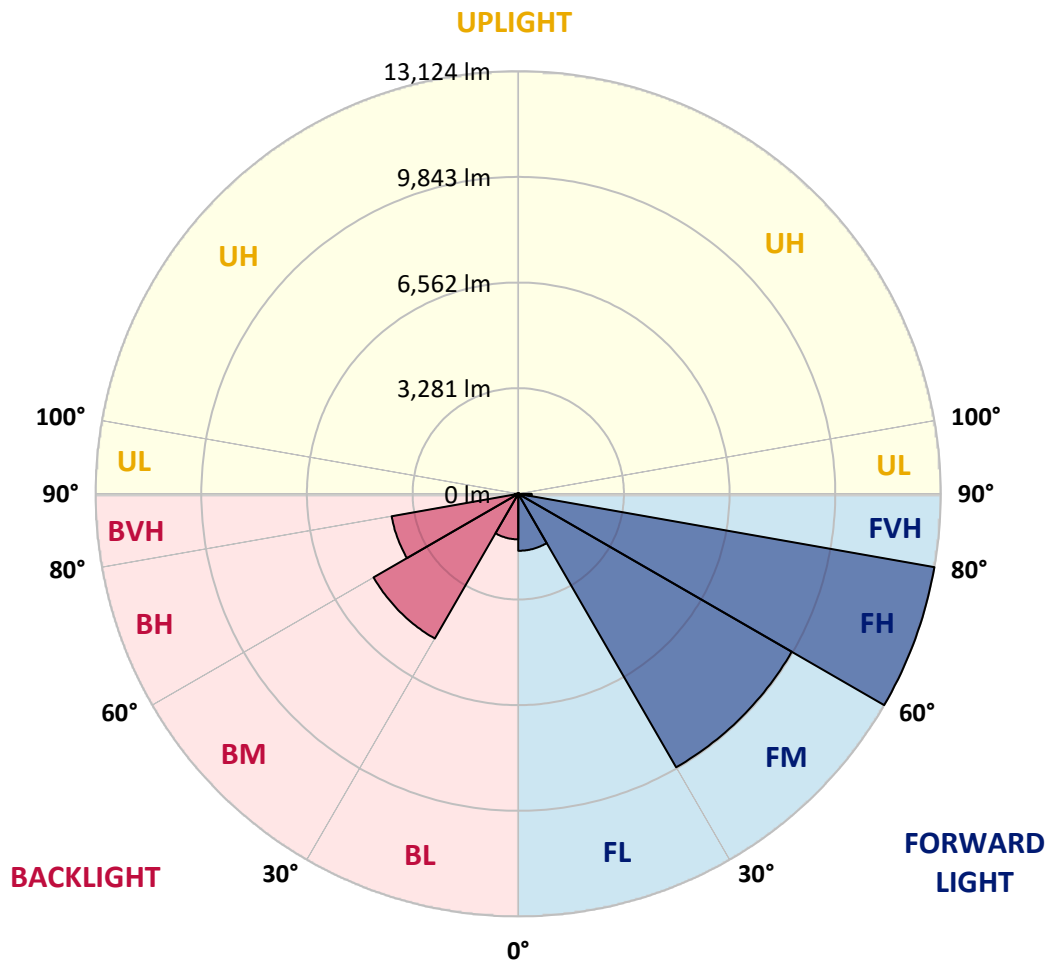
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1769.2	4.9			
FM (30°-60°)	9807.0	27.3			
FH (60°-80°)	13124.3	36.6			G5
FVH (80°-90°)	416.7	1.2			G3/500
BL (0°-30°)	1414.4	3.9	B3/2500		
BM (30°-60°)	5189.3	14.5	B4/8500		
BH (60°-80°)	3992.9	11.1	B4/5000		G4/5000
BVH (80°-90°)	110.3	0.3			G2/225
UL (90°-100°)	33.7	0.1		U2/50	
UH (100°-180°)	10.3	0.0		U2/50	

**BUG Rating: B4-U2-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3554.1	3554.1	3554.1	3554.1	3554.1	3554.1	3554.1	3554.1	3554.1	3554.1	3554.1
2.5°	3622.0	3600.9	3602.4	3622.0	3563.2	3582.8	3557.1	3576.7	3563.2	3567.7	3576.7
5°	3644.6	3622.0	3623.5	3647.6	3594.8	3611.4	3576.7	3587.3	3575.2	3581.3	3581.3
7.5°	3689.8	3664.2	3662.7	3677.8	3623.5	3629.5	3597.8	3599.3	3581.3	3593.3	3587.3
10°	3757.7	3736.6	3721.5	3730.5	3682.3	3679.3	3638.6	3640.1	3617.4	3631.0	3620.5
12.5°	3840.6	3812.0	3808.9	3812.0	3759.2	3747.1	3704.9	3707.9	3667.2	3688.3	3676.2
15°	3946.2	3900.9	3900.9	3917.5	3849.7	3840.6	3789.3	3792.4	3750.1	3766.7	3754.7
17.5°	4075.8	4032.1	4024.6	4036.6	3977.8	3965.8	3913.0	3910.0	3863.2	3867.8	3857.2
20°	4243.2	4199.5	4181.4	4211.6	4137.7	4128.6	4065.3	4059.3	4009.5	3995.9	3989.9
22.5°	4398.5	4363.8	4354.8	4388.0	4311.1	4303.5	4243.2	4235.7	4188.9	4169.3	4050.2
25°	4573.4	4565.9	4562.9	4573.4	4501.1	4486.0	4439.2	4428.7	4389.5	4365.4	4220.6
27.5°	4799.6	4796.6	4787.6	4789.1	4722.7	4709.2	4665.4	4657.9	4617.2	4590.0	4404.6
30°	5036.4	5036.4	5016.8	5027.3	4994.1	4973.0	4938.4	4911.2	4885.6	4856.9	4623.2
32.5°	5309.3	5307.8	5289.7	5321.4	5297.2	5297.2	5276.1	5247.5	5202.2	5188.7	4905.2
35°	5660.6	5638.0	5630.5	5681.7	5674.2	5687.8	5680.2	5650.1	5612.4	5580.7	5236.9
37.5°	6049.7	6043.6	6066.3	6097.9	6114.5	6150.7	6128.1	6126.6	6120.5	6040.6	5148.0
40°	6529.2	6503.6	6535.2	6551.8	6539.7	6598.6	6578.9	6595.5	6640.8	5998.4	5141.9
42.5°	7007.2	6984.6	7007.2	7088.6	7070.5	7141.4	7132.3	7197.2	7222.8	6087.4	5559.6
45°	7595.3	7569.6	7587.7	7684.2	7693.3	7779.2	7826.0	7887.8	7899.9	6663.4	6063.2
47.5°	8270.8	8228.6	8263.3	8308.5	8445.7	8527.1	8572.4	8647.8	8724.7	7357.0	6636.2
50°	9015.7	9012.7	9050.4	9128.8	9285.6	9367.0	9445.5	9523.9	9650.5	8130.6	7278.6
52.5°	9962.7	9943.1	10007.9	10081.8	10220.5	10345.7	10439.2	10520.6	10656.3	8913.2	7973.8
55°	11045.3	10977.5	11101.1	11226.3	11285.1	11432.9	11497.7	11565.6	11695.2	9736.5	8379.4
57.5°	12214.0	12197.4	12283.3	12328.6	12455.2	12547.2	12581.9	12655.8	12654.3	10593.0	9070.0
60°	13364.5	13346.4	13447.4	13474.6	13575.6	13658.5	13646.5	13712.8	13736.9	11396.7	9747.0
62.5°	14575.3	14545.2	14638.6	14644.7	14584.4	14718.6	14705.0	14760.8	14739.7	12182.3	10413.5
65°	15899.2	15921.9	15952.0	15828.4	15683.6	15799.7	15796.7	15902.3	15977.7	13280.0	11306.2
67.5°	17631.8	17603.2	17447.9	17149.3	16798.0	16680.3	16555.2	16632.1	16653.2	13825.9	11763.1
70°	16883.9	16820.6	16751.2	16446.6	16022.9	15724.3	15529.8	15611.2	15697.2	13065.9	11048.3
72.5°	15060.9	14904.0	14581.3	14312.9	14068.7	13777.6	13540.9	13682.6	13871.1	11589.7	9783.2
75°	11882.2	11735.9	11500.7	11318.3	11187.1	11184.1	11173.5	11283.6	11256.4	9410.8	7954.1
77.5°	7358.5	7664.6	7881.8	7726.5	7780.7	7669.2	7914.9	8059.7	8190.9	6746.3	5666.7
80°	3397.3	3475.7	3860.2	3760.7	3680.8	3658.2	3673.2	3925.1	3998.9	3027.9	2536.3
82.5°	775.1	743.4	770.5	714.7	711.7	678.6	683.1	683.1	659.0	557.9	467.4
85°	392.1	401.1	404.1	387.5	342.3	307.6	285.0	241.3	208.1	177.9	150.8
87.5°	262.4	269.9	274.4	251.8	226.2	197.5	179.4	146.3	116.1	72.4	55.8
90°	179.4	177.9	173.4	161.3	144.8	123.6	99.5	69.4	40.7	15.1	10.6
92.5°	128.2	125.2	123.6	113.1	101.0	84.4	64.8	43.7	22.6	10.6	6.0
95°	84.4	82.9	82.9	76.9	67.9	55.8	43.7	28.7	16.6	9.0	6.0
97.5°	58.8	57.3	57.3	54.3	48.3	40.7	30.2	19.6	13.6	9.0	6.0
100°	40.7	40.7	40.7	37.7	34.7	28.7	22.6	15.1	12.1	9.0	6.0
102.5°	27.1	27.1	28.7	27.1	24.1	19.6	15.1	12.1	10.6	7.5	6.0
105°	18.1	18.1	18.1	18.1	16.6	13.6	12.1	10.6	9.0	7.5	6.0
107.5°	12.1	12.1	12.1	12.1	10.6	9.0	9.0	9.0	7.5	7.5	6.0
110°	7.5	7.5	7.5	9.0	7.5	7.5	7.5	7.5	7.5	6.0	6.0



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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°	3554.1	3554.1	3554.1	3554.1	3554.1	3554.1	3554.1	3554.1	3554.1	3554.1
2.5°	3569.2	3548.1	3558.6	3537.5	3528.5	3508.9	3546.6	3549.6	3546.6	3552.6
5°	3573.7	3549.6	3561.6	3537.5	3533.0	3510.4	3548.1	3548.1	3539.0	3543.6
7.5°	3584.3	3558.6	3567.7	3539.0	3539.0	3511.9	3557.1	3554.1	3546.6	3557.1
10°	3620.5	3590.3	3590.3	3563.2	3566.2	3537.5	3593.3	3593.3	3587.3	3605.4
12.5°	3676.2	3638.6	3640.1	3602.4	3608.4	3585.8	3653.6	3656.6	3656.6	3686.8
15°	3748.6	3691.3	3697.4	3656.6	3668.7	3641.6	3701.9	3698.9	3706.4	3750.1
17.5°	3837.6	3774.3	3721.5	3588.8	3510.4	3513.4	3692.8	3775.8	3679.3	3707.9
20°	3875.3	3567.7	3400.3	3352.1	3341.5	3174.1	2831.8	2884.6	3207.3	3347.5
22.5°	3622.0	3524.0	3507.4	3445.5	2988.6	2862.0	2883.1	2852.9	2536.3	2356.8
25°	3745.6	3680.8	3643.1	3098.7	2996.2	2973.6	2958.5	2672.0	2328.2	2344.8
27.5°	3920.5	3836.1	3383.7	3112.3	3131.9	3097.2	3009.8	2403.6	2393.0	2420.2
30°	4127.1	3914.5	3297.8	3272.1	3294.8	3249.5	2530.2	2506.1	2506.1	2533.3
32.5°	4380.4	3551.1	3499.8	3502.8	3487.8	2975.1	2662.9	2656.9	2675.0	2697.6
35°	4309.6	3787.8	3792.4	3818.0	3783.3	2910.2	2871.0	2848.4	2863.5	2872.5
37.5°	4170.8	4143.7	4143.7	4115.0	3229.9	3137.9	3095.7	3092.7	3091.2	3091.2
40°	4520.7	4495.0	4463.4	4413.6	3379.2	3403.3	3340.0	3332.4	3337.0	3353.6
42.5°	4918.8	4908.2	4905.2	3787.8	3689.8	3707.9	3640.1	3620.5	3620.5	3658.2
45°	5387.7	5374.1	5040.9	4048.7	4032.1	4053.2	3977.8	3931.1	3956.7	3983.9
47.5°	5926.0	5926.0	4463.4	4439.2	4439.2	4451.3	4375.9	4312.6	4338.2	4347.3
50°	6515.6	5594.3	4911.2	4888.6	4909.7	4903.7	4825.3	4237.2	4781.5	4786.1
52.5°	6680.0	5440.5	5402.8	5377.2	5402.8	5398.3	5316.8	3534.5	5172.1	5246.0
55°	5921.5	5926.0	5918.5	5880.8	5907.9	5897.4	5817.5	3858.7	3813.5	3398.8
57.5°	6402.5	6408.6	6405.5	6399.5	6423.6	4666.9	6025.5	3486.3	2129.1	2130.7
60°	6925.8	6895.6	6886.6	6873.0	5825.0	3308.3	2510.6	242.8	832.4	820.3
62.5°	7400.8	7390.2	7358.5	7351.0	4942.9	2605.6	2545.3	55.8	43.7	42.2
65°	8061.2	7967.7	7942.1	7862.2	5268.6	2774.5	2717.2	16.6	1.5	0.0
67.5°	8307.0	8117.0	8025.0	7982.8	5360.6	2862.0	2751.9	16.6	1.5	0.0
70°	7842.6	7607.3	7491.2	7444.5	5009.2	2675.0	2566.4	16.6	1.5	0.0
72.5°	6954.4	6781.0	6734.3	6585.0	4416.6	2347.8	2252.8	16.6	0.0	0.0
75°	5704.4	5641.0	5583.7	5425.4	3590.3	1865.3	1780.8	15.1	0.0	0.0
77.5°	4151.2	4057.7	3952.2	3780.3	2423.2	1218.4	1174.7	13.6	0.0	0.0
80°	1871.3	1794.4	1768.8	1500.4	859.5	396.6	349.8	12.1	0.0	0.0
82.5°	363.4	327.2	310.6	298.6	193.0	107.1	93.5	9.0	0.0	0.0
85°	123.6	137.2	159.8	176.4	108.6	64.8	54.3	6.0	0.0	0.0
87.5°	48.3	64.8	78.4	81.4	40.7	27.1	15.1	3.0	0.0	0.0
90°	9.0	12.1	10.6	7.5	4.5	1.5	0.0	0.0	0.0	0.0
92.5°	4.5	6.0	4.5	4.5	3.0	1.5	0.0	0.0	0.0	0.0
95°	6.0	6.0	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0
97.5°	6.0	6.0	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0
100°	6.0	6.0	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0
102.5°	6.0	6.0	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0
105°	6.0	7.5	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0
107.5°	6.0	7.5	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0
110°	6.0	7.5	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: CST-CA8-330-760-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)