

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: P579558

Luminaire Tested: **CST-CA8-330-750-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579558  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/18/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA8-330-750-U-T5-HSS-HM-EX90  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (8) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40242 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B5 - U2 - G5

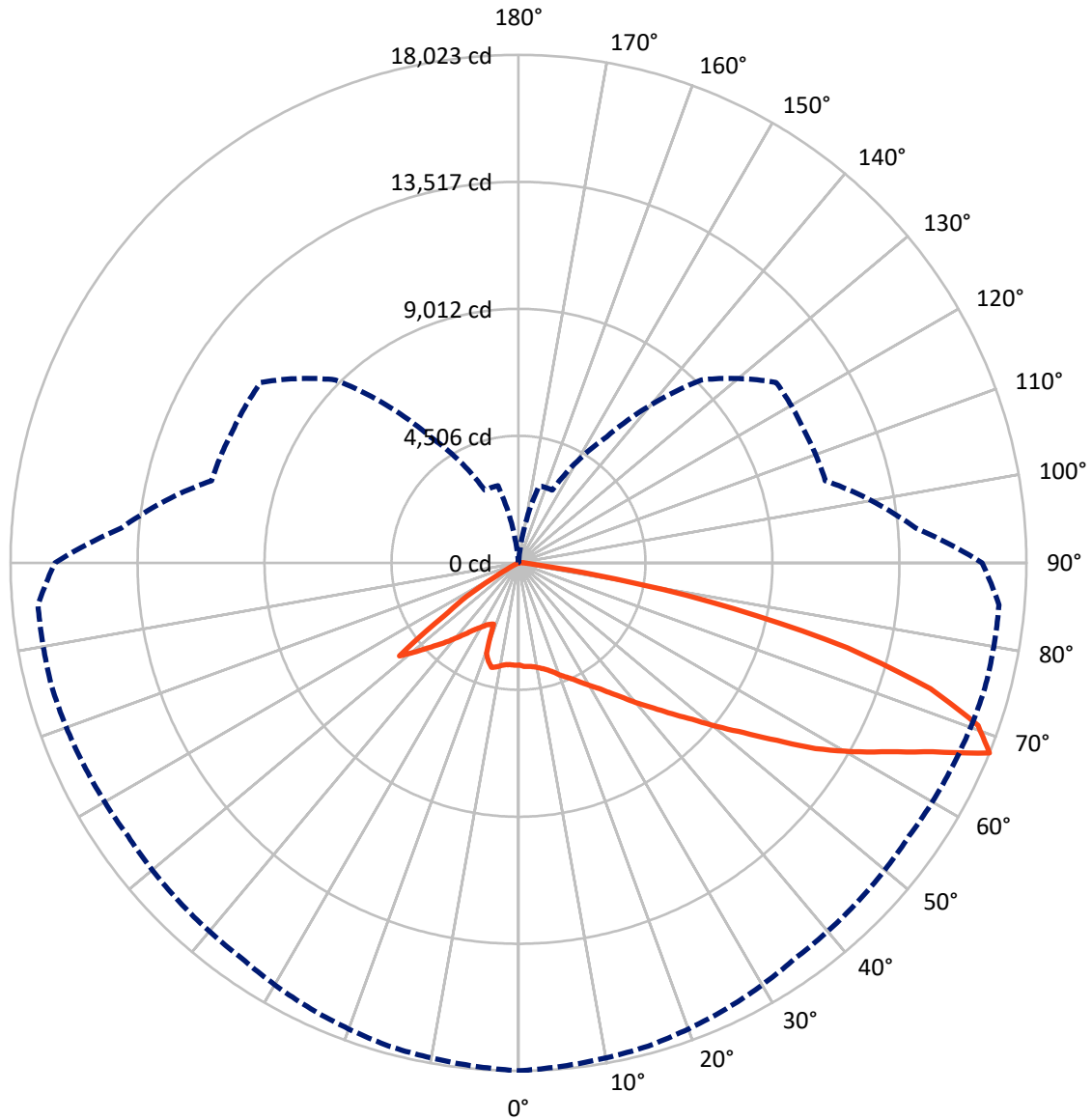
Input Watts (W): 331.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT





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### Luminous Intensity Polar Plot



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

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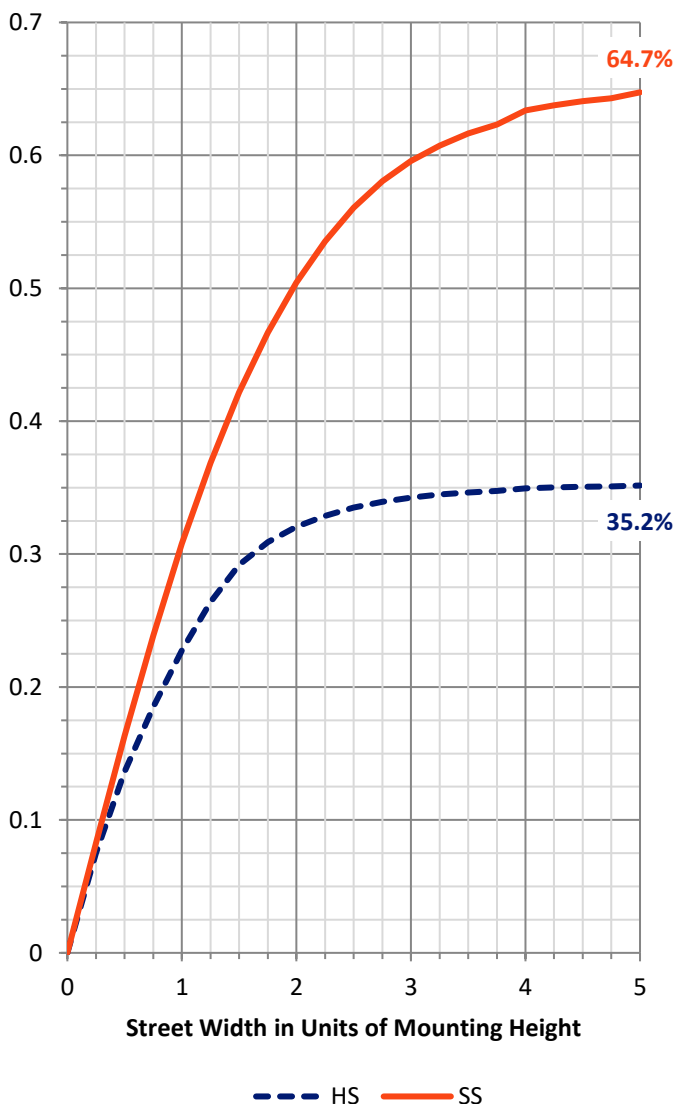
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14165.1	0.8	14166.0
	% Fixture	35.2	0.0	35.2
<b>Street Side</b>	Lumens	26047.6	28.4	26076.0
	% Fixture	64.7	0.1	64.8
<b>Total</b>	Lumens	40212.8	29.2	40242.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.9	0.9
10°-20°	1083.8	2.7
20°-30°	1879.1	4.7
30°-40°	3083.3	7.7
40°-50°	5142.9	12.8
50°-60°	8323.2	20.7
60°-70°	11488.6	28.5
70°-80°	8288.6	20.6
80°-90°	574.5	1.4
90°-100°	24.9	0.1
100°-110°	4.2	0.0
110°-120°	0.2	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°	40212.8	99.9
0°-180°	40242.0	100.0

**Coefficient of Utilization**

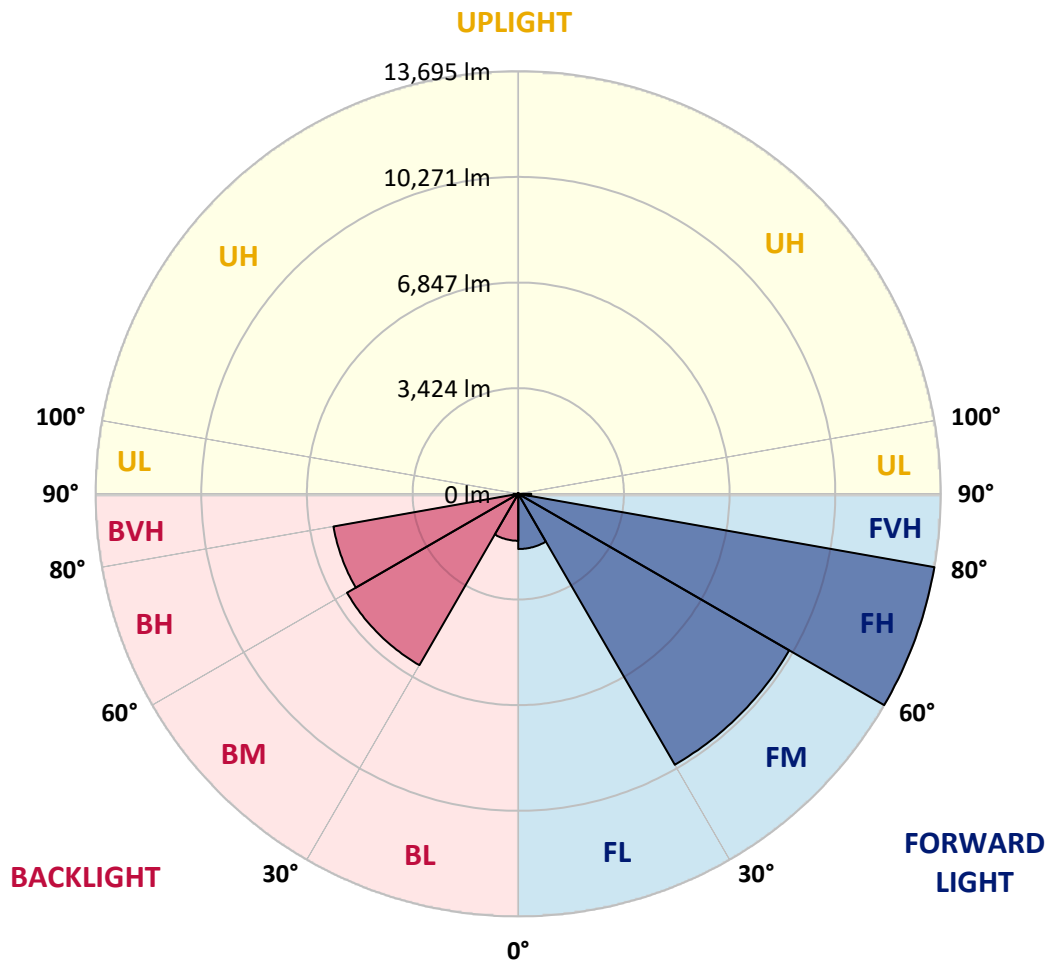


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1789.5	4.4			
FM (30°-60°)	10140.0	25.2			
FH (60°-80°)	13694.9	34.0			G5
FVH (80°-90°)	423.3	1.1			G3/500
BL (0°-30°)	1522.2	3.8	B3/2500		
BM (30°-60°)	6409.4	15.9	B4/8500		
BH (60°-80°)	6082.3	15.1	B5		G5
BVH (80°-90°)	151.2	0.4			G2/225
UL (90°-100°)	24.9	0.1		U2/50	
UH (100°-180°)	4.3	0.0		U1/10	

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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3626.5	3626.5	3626.5	3626.5	3626.5	3626.5	3626.5	3626.5	3626.5	3626.5	3626.5
2.5°	3682.0	3660.4	3661.9	3683.5	3625.0	3646.5	3621.9	3643.5	3632.7	3640.4	3649.6
5°	3692.8	3666.6	3669.6	3695.8	3649.6	3666.6	3637.3	3649.6	3640.4	3649.6	3651.2
7.5°	3720.5	3694.3	3695.8	3715.9	3668.1	3680.4	3652.7	3658.9	3643.5	3660.4	3655.8
10°	3779.0	3754.4	3745.1	3762.1	3720.5	3722.0	3689.7	3695.8	3672.7	3695.8	3686.6
12.5°	3857.6	3823.7	3826.8	3836.0	3785.2	3788.3	3749.8	3759.0	3720.5	3752.8	3742.1
15°	3953.1	3911.5	3916.1	3931.5	3882.2	3877.6	3842.2	3842.2	3808.3	3832.9	3822.2
17.5°	4085.6	4039.4	4036.3	4047.1	4007.0	4007.0	3967.0	3962.4	3928.5	3948.5	3945.4
20°	4258.1	4205.8	4196.5	4216.5	4165.7	4171.9	4121.0	4116.4	4079.4	4091.8	4093.3
22.5°	4413.7	4372.1	4370.6	4401.4	4341.3	4349.0	4302.8	4290.5	4259.7	4276.6	4281.3
25°	4592.4	4586.3	4581.7	4592.4	4532.4	4532.4	4500.0	4489.2	4469.2	4481.5	4493.9
27.5°	4817.4	4814.3	4802.0	4803.5	4752.7	4760.4	4724.9	4718.8	4709.5	4708.0	4701.8
30°	5065.4	5051.5	5034.6	5045.4	5022.3	5030.0	4999.2	4979.1	4976.0	4977.6	4968.3
32.5°	5341.2	5322.7	5311.9	5330.4	5339.6	5361.2	5359.7	5304.2	5304.2	5327.3	5285.7
35°	5683.2	5653.9	5663.1	5687.8	5706.3	5761.7	5752.5	5714.0	5726.3	5737.1	5687.8
37.5°	6085.3	6065.2	6106.8	6153.0	6154.6	6233.2	6214.7	6223.9	6222.4	6208.5	6176.2
40°	6567.5	6535.1	6578.2	6613.7	6592.1	6686.1	6683.0	6724.6	6752.3	6800.1	6781.6
42.5°	7046.6	7021.9	7063.5	7140.6	7128.2	7236.1	7251.5	7316.2	7354.7	7428.6	7385.5
45°	7636.6	7622.8	7661.3	7721.4	7762.9	7906.2	7963.2	7991.0	8088.0	8177.4	8077.2
47.5°	8297.5	8316.0	8309.8	8419.2	8511.7	8685.7	8708.9	8798.2	8882.9	8981.5	8884.5
50°	9120.2	9089.4	9117.1	9221.9	9372.8	9499.2	9617.8	9745.7	9828.9	9930.5	9751.8
52.5°	10006.0	10032.2	10093.8	10255.6	10366.5	10515.9	10623.8	10776.3	10858.0	10945.8	10713.1
55°	11122.9	11144.5	11212.3	11378.7	11457.2	11626.7	11700.6	11853.2	11931.7	11970.2	11672.9
57.5°	12432.4	12360.0	12415.5	12501.7	12623.5	12806.8	12826.8	12970.1	12970.1	13019.4	12640.4
60°	13601.7	13552.4	13611.0	13734.2	13782.0	13948.3	13931.4	14048.5	14079.3	14042.3	13589.4
62.5°	14754.1	14763.3	14838.8	14878.9	14860.4	14959.0	14999.0	15122.3	15071.4	15083.7	14561.5
65°	16152.9	16174.5	16166.8	16092.8	15926.4	16120.6	16109.8	16305.4	16317.7	16428.7	15821.7
67.5°	18023.2	17927.6	17753.6	17456.2	17126.5	17012.5	16912.4	17009.5	17134.2	17114.2	16448.7
70°	17296.0	17140.4	17049.5	16790.7	16350.1	16122.1	15914.1	15931.1	16112.8	16129.8	15448.9
72.5°	15290.2	15211.6	14861.9	14635.4	14333.5	14157.9	13906.7	13963.8	14201.0	14241.1	13698.8
75°	12061.1	11988.7	11672.9	11599.0	11449.5	11535.8	11474.2	11497.3	11688.3	11512.7	11187.6
77.5°	7806.1	7823.0	7773.7	7941.7	7935.5	7940.1	8165.0	8188.1	8374.6	8266.7	7952.4
80°	3500.2	3551.0	3671.2	3914.6	3766.7	3846.8	3933.1	3906.9	4094.8	3669.6	3822.2
82.5°	708.7	733.3	691.7	722.5	674.8	699.4	734.9	680.9	674.8	625.5	580.8
85°	365.1	369.7	368.2	360.5	317.4	292.7	281.9	237.2	214.1	209.5	194.1
87.5°	237.2	240.3	232.6	231.1	203.4	186.4	166.4	140.2	117.1	81.7	67.8
90°	144.8	144.8	137.1	129.4	115.5	103.2	83.2	60.1	35.4	13.9	7.7
92.5°	97.1	97.1	94.0	89.4	80.1	69.3	53.9	35.4	16.9	6.2	3.1
95°	61.6	61.6	60.1	58.5	52.4	44.7	33.9	21.6	10.8	4.6	1.5
97.5°	40.1	40.1	40.1	38.5	35.4	30.8	23.1	13.9	7.7	3.1	1.5
100°	24.6	26.2	24.6	24.6	23.1	20.0	15.4	9.2	6.2	3.1	1.5
102.5°	13.9	13.9	15.4	15.4	13.9	12.3	9.2	7.7	4.6	3.1	1.5
105°	6.2	6.2	7.7	7.7	7.7	6.2	6.2	4.6	3.1	3.1	1.5
107.5°	1.5	1.5	1.5	3.1	4.6	4.6	4.6	4.6	3.1	1.5	1.5
110°	0.0	0.0	0.0	1.5	1.5	3.1	3.1	3.1	3.1	1.5	1.5



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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°	3626.5	3626.5	3626.5	3626.5	3626.5	3626.5	3626.5	3626.5	3626.5	3626.5
2.5°	3640.4	3621.9	3635.8	3612.6	3606.5	3586.5	3625.0	3631.1	3628.0	3634.2
5°	3643.5	3620.3	3637.3	3614.2	3612.6	3591.1	3631.1	3632.7	3621.9	3626.5
7.5°	3652.7	3631.1	3643.5	3617.3	3620.3	3594.2	3640.4	3638.8	3632.7	3643.5
10°	3686.6	3661.9	3666.6	3638.8	3646.5	3618.8	3675.8	3678.9	3672.7	3692.8
12.5°	3745.1	3711.2	3722.0	3689.7	3695.8	3668.1	3737.4	3742.1	3742.1	3774.4
15°	3825.2	3789.8	3812.9	3771.3	3772.9	3731.3	3783.6	3783.6	3789.8	3834.5
17.5°	3942.3	3899.2	3930.0	3891.5	3651.2	3560.3	3739.0	3848.4	3666.6	3651.2
20°	4087.1	4067.1	4084.1	4020.9	3631.1	3215.2	2891.7	2874.7	3233.7	3412.4
22.5°	4264.3	4244.3	4252.0	4171.9	3241.4	2948.7	2944.0	2913.2	2464.9	2341.7
25°	4472.3	4461.5	4444.6	3772.9	3350.7	3070.4	3033.4	2631.3	2374.0	2397.1
27.5°	4695.7	4663.3	4091.8	3919.2	3518.7	3192.1	2982.5	2457.2	2448.0	2469.5
30°	4945.2	4774.2	4188.8	4130.3	3714.3	3343.0	2595.9	2565.1	2565.1	2598.9
32.5°	5262.6	4458.4	4458.4	4427.6	3956.2	2934.8	2733.0	2714.5	2736.1	2749.9
35°	5214.8	4795.8	4845.1	4831.2	4284.3	2988.7	2953.3	2922.5	2927.1	2927.1
37.5°	5230.2	5247.2	5305.7	5245.6	3737.4	3222.9	3165.9	3159.7	3164.3	3175.1
40°	5714.0	5723.2	5744.8	5612.3	4016.3	3495.6	3417.0	3401.6	3417.0	3440.1
42.5°	6234.7	6260.9	6285.5	5103.9	4406.0	3805.2	3726.6	3697.4	3725.1	3749.8
45°	6850.9	6891.0	6513.5	5555.3	4846.6	4158.0	4074.8	4039.4	4056.3	4077.9
47.5°	7544.2	7607.3	6142.3	6129.9	5364.3	4575.5	4480.0	4412.2	4438.4	4436.8
50°	8326.8	7270.0	6786.2	6778.5	5942.0	5040.8	4942.2	4880.5	4900.6	4885.2
52.5°	9172.6	7468.7	7484.1	7482.6	6545.9	5541.4	5450.5	5373.5	5214.8	5361.2
55°	10038.4	8155.8	8214.3	8205.1	7179.1	6059.1	5962.0	5889.6	3848.4	3250.6
57.5°	10899.6	8873.7	8892.2	8913.8	7835.4	6558.2	6131.5	5632.3	2195.3	2184.5
60°	11749.9	9557.7	9594.7	9607.0	8189.7	5429.0	2506.5	2552.7	664.0	793.4
62.5°	12631.2	10232.5	10266.4	10255.6	8542.5	5048.5	2632.8	2580.5	61.6	57.0
65°	13755.8	11078.3	11030.5	10995.1	9098.6	5387.4	2828.5	2814.6	20.0	13.9
67.5°	14150.2	11270.8	11173.8	11161.4	9178.7	5459.8	2843.9	2833.1	20.0	13.9
70°	13256.6	10539.1	10372.7	10377.3	8540.9	5107.0	2652.9	2637.5	18.5	13.9
72.5°	11609.8	9308.1	9238.8	8872.2	7396.3	4492.3	2352.5	2293.9	18.5	12.3
75°	9531.5	7519.5	7365.5	6954.1	5886.5	3571.0	1847.1	1771.7	16.9	10.8
77.5°	6616.8	5273.4	4979.1	4560.1	3937.7	2367.9	1241.7	1144.6	15.4	10.8
80°	2999.5	2164.5	2175.3	1666.9	1335.7	802.6	394.4	357.4	13.9	9.2
82.5°	522.3	385.1	362.0	349.7	291.2	197.2	120.2	103.2	12.3	6.2
85°	181.8	146.4	161.8	191.0	169.5	118.6	73.9	70.9	7.7	3.1
87.5°	61.6	64.7	75.5	90.9	80.1	46.2	27.7	20.0	1.5	0.0
90°	6.2	7.7	7.7	7.7	4.6	0.0	0.0	0.0	0.0	0.0
92.5°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P579558  
 CATALOG NUMBER: CST-CA8-330-750-U-T5-HSS-HM-EX90

**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)