

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: P579511

Luminaire Tested: **CST-CA8-330-740-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579511  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/18/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA8-330-740-U-T5N-HSS-HM-EX120  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (8) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38450 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U2 - G4

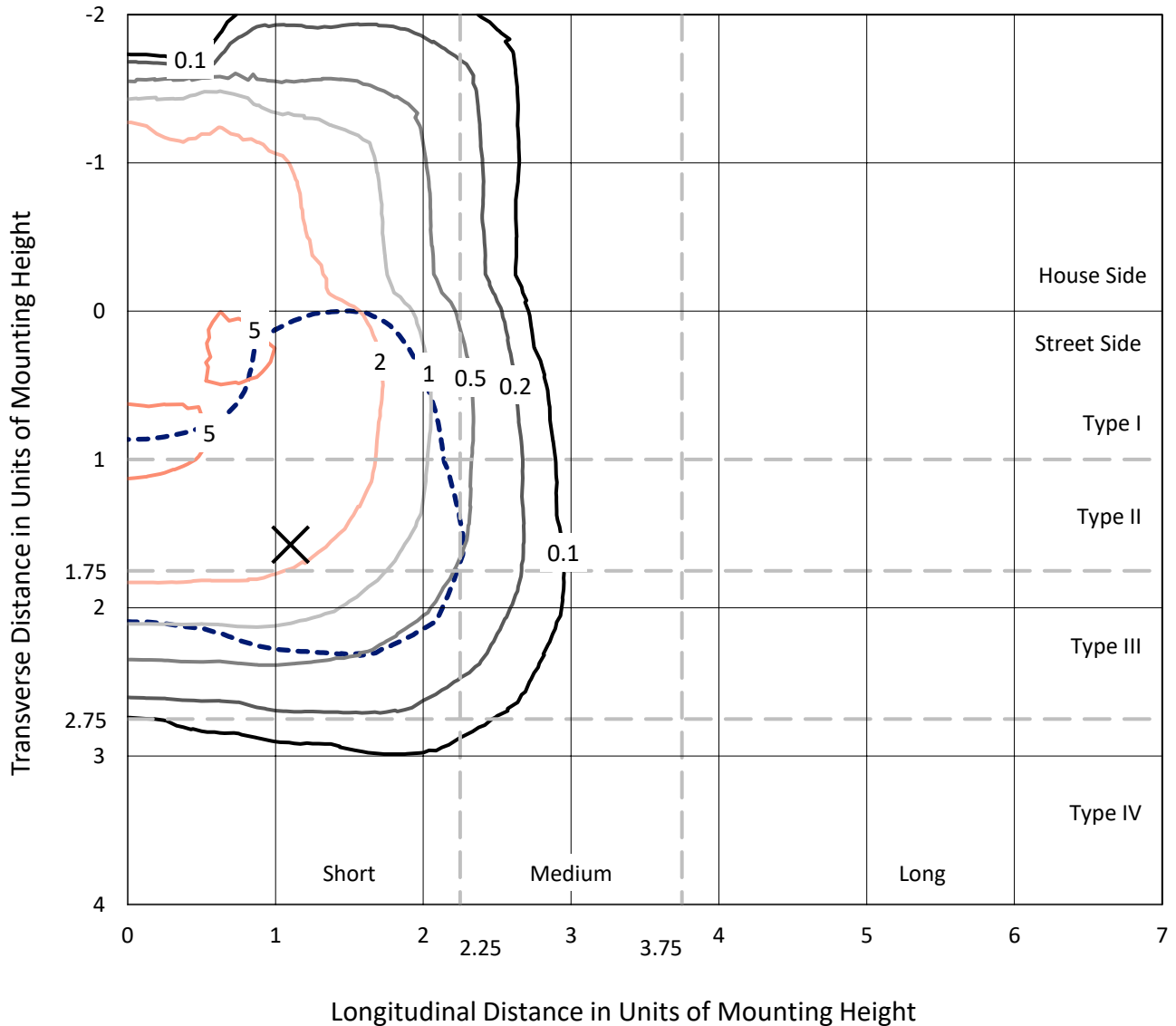
Input Watts (W): 331.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

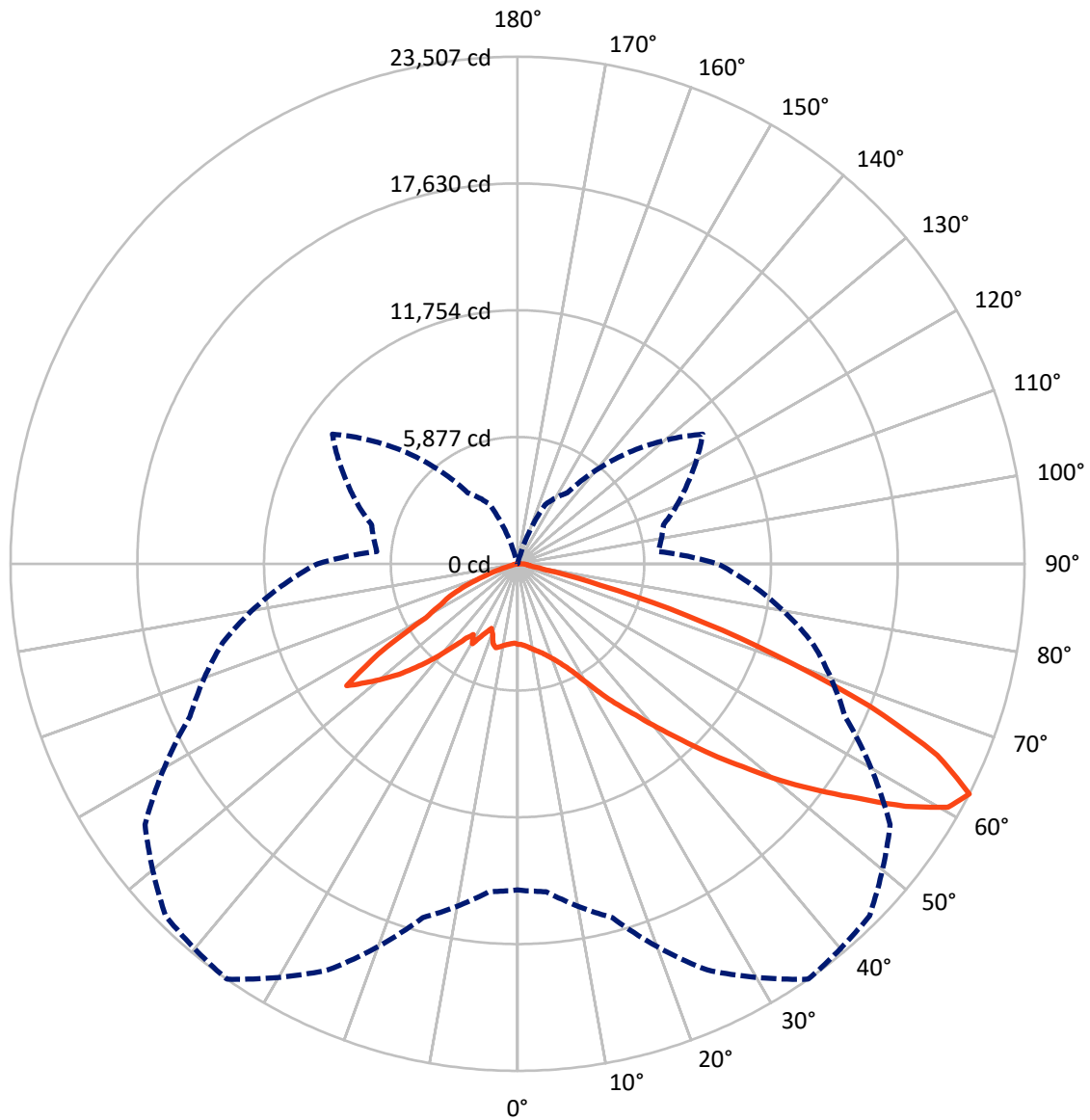
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical



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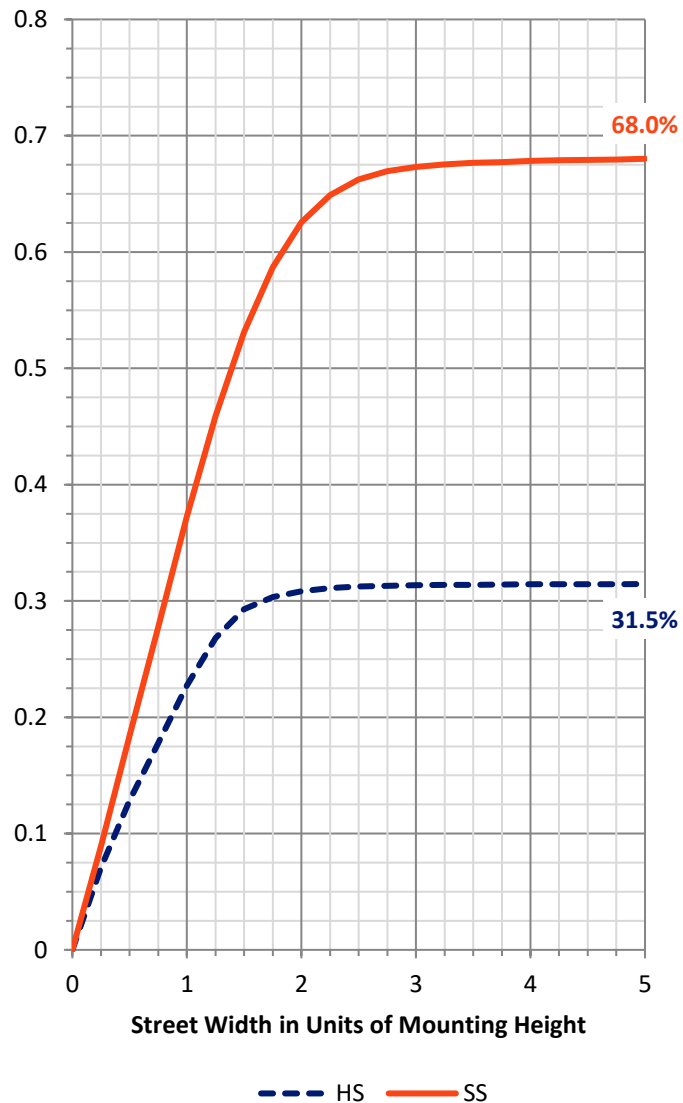
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12163.9	0.0	12164.0
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	26264.1	21.9	26286.0
	% Fixture	68.3	0.1	68.4
<b>Total</b>	Lumens	38428.0	22.0	38450.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	368.0	1.0
10°-20°	1183.3	3.1
20°-30°	2197.2	5.7
30°-40°	4332.0	11.3
40°-50°	7776.4	20.2
50°-60°	11303.9	29.4
60°-70°	9290.0	24.2
70°-80°	1765.9	4.6
80°-90°	211.4	0.5
90°-100°	20.0	0.1
100°-110°	1.9	0.0
110°-120°	0.0	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°	38428.0	99.9
0°-180°	38450.0	100.0

**Coefficient of Utilization**

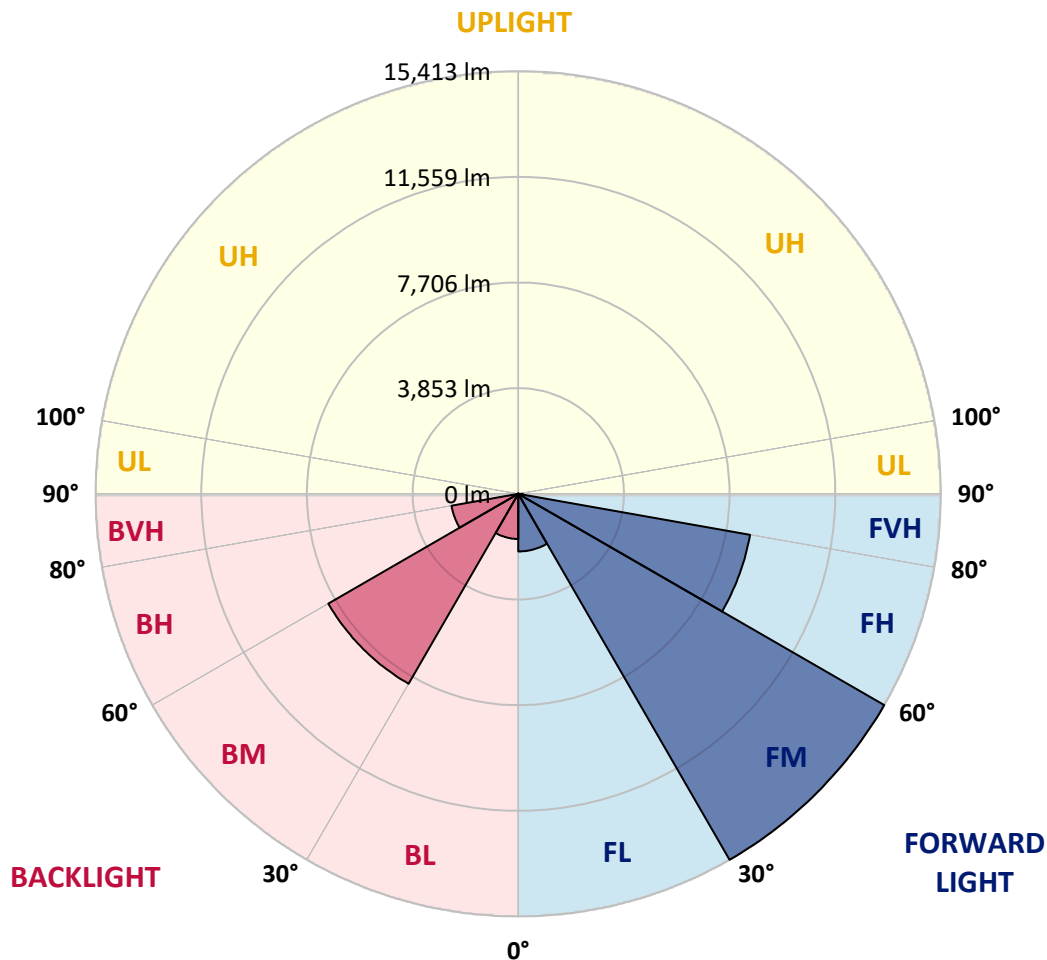


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2101.5	5.5			
FM (30°-60°)	15412.5	40.1			
FH (60°-80°)	8582.9	22.3			G4/12000
FVH (80°-90°)	167.1	0.4			G2/225
BL (0°-30°)	1647.0	4.3	B3/2500		
BM (30°-60°)	7999.7	20.8	B4/8500		
BH (60°-80°)	2472.9	6.4	B3/2500		G3/2500
BVH (80°-90°)	44.2	0.1			G1/100
UL (90°-100°)	20.0	0.1		U2/50	
UH (100°-180°)	2.0	0.0		U1/10	

**BUG Rating: B4-U2-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2
2.5°	3827.5	3796.2	3799.4	3822.8	3752.5	3775.9	3743.1	3771.2	3758.7	3771.2	3779.1
5°	3904.1	3865.0	3863.4	3886.9	3830.6	3844.7	3807.2	3825.9	3808.7	3824.4	3824.4
7.5°	3997.9	3965.0	3957.2	3976.0	3926.0	3932.2	3894.7	3902.5	3882.2	3902.5	3886.9
10°	4115.1	4085.4	4072.9	4082.3	4036.9	4040.1	3999.4	4002.5	3972.9	3990.0	3977.5
12.5°	4238.5	4197.9	4191.7	4207.3	4160.4	4154.1	4119.8	4122.9	4090.1	4105.7	4096.3
15°	4366.7	4324.5	4326.1	4341.7	4294.8	4297.9	4262.0	4268.2	4235.4	4251.0	4238.5
17.5°	4537.1	4494.9	4491.7	4519.9	4480.8	4493.3	4455.8	4463.6	4440.2	4443.3	4429.2
20°	4780.9	4726.2	4715.2	4755.9	4704.3	4719.9	4699.6	4726.2	4716.8	4709.0	4698.0
22.5°	5071.6	5029.4	5007.5	5038.7	4977.8	5007.5	5018.4	5073.1	5087.2	5077.8	4905.9
25°	5460.7	5438.8	5417.0	5402.9	5329.4	5376.3	5432.6	5523.2	5582.6	5606.1	5366.9
27.5°	5985.8	5996.8	5901.4	5885.8	5803.0	5876.4	5978.0	6124.9	6245.3	6289.0	5967.1
30°	6661.0	6675.1	6545.4	6507.8	6457.8	6520.4	6709.5	6870.4	7048.6	7122.1	6692.3
32.5°	7558.1	7545.6	7354.9	7283.0	7237.7	7262.7	7461.2	7681.6	7881.6	8047.3	7519.0
35°	8653.7	8614.6	8411.4	8213.0	8033.2	8109.8	8255.2	8522.4	8825.6	9069.4	8334.9
37.5°	9925.9	9888.4	9578.9	9255.4	8900.6	8933.4	9063.2	9499.2	9889.9	9954.0	8195.8
40°	11240.3	11224.6	10932.4	10521.3	9969.6	9814.9	9986.8	10518.2	10930.8	9813.3	8519.3
42.5°	12553.1	12478.1	12314.0	11902.9	11168.4	10827.7	11059.0	11590.3	12034.2	10288.5	9269.5
45°	13876.8	13800.3	13661.2	13359.5	12595.3	12099.8	12167.1	12756.3	13157.9	11179.3	10050.9
47.5°	15052.1	14995.9	14895.8	14727.1	14045.6	13597.1	13467.4	13880.0	14153.5	11902.9	10651.1
50°	16064.9	16016.4	16055.5	15999.2	15799.2	15328.8	14900.5	14874.0	15005.2	12546.8	11202.8
52.5°	16955.7	16890.1	17057.3	17255.8	17440.2	17335.5	16299.3	15816.4	15697.6	13029.8	11573.2
55°	17691.8	17668.4	17956.0	18492.0	19193.8	19468.8	17795.0	16686.9	16316.5	13439.2	11607.5
57.5°	18132.6	18188.8	18796.8	19834.6	21206.8	21336.5	19545.4	17612.1	16862.0	13687.7	11771.6
60°	17379.3	17569.9	18664.0	20841.1	22919.7	22976.0	20803.5	17796.6	16147.7	12793.8	10894.9
62.5°	15122.5	15260.0	16980.7	20777.0	23507.3	23079.1	21084.9	16755.7	14151.9	10852.7	9266.3
65°	10685.4	10844.9	12918.8	18735.9	21386.5	21402.1	19314.1	14489.5	11312.2	8402.1	7154.9
67.5°	6445.3	6703.2	8667.8	13601.8	17609.0	17929.4	16113.3	10969.9	8095.7	5485.7	4630.8
70°	2114.6	2350.6	3957.2	8050.4	12693.7	14066.0	12101.4	7128.3	4227.6	2319.3	1867.6
72.5°	837.7	945.5	1394.1	3560.2	8180.1	9391.4	7456.5	3444.6	1419.1	615.8	536.1
75°	559.5	570.5	643.9	1212.8	4002.5	5135.6	3594.6	1001.8	526.7	384.5	337.6
77.5°	487.6	489.2	522.0	639.2	1303.4	1969.2	1034.6	537.6	436.0	315.7	279.8
80°	447.0	453.2	473.6	545.4	597.0	668.9	511.1	448.5	378.2	290.7	264.1
82.5°	428.2	432.9	445.4	493.9	482.9	501.7	412.6	356.3	318.8	267.3	253.2
85°	390.7	398.5	406.3	436.0	397.0	343.8	318.8	239.1	228.2	201.6	186.0
87.5°	295.4	293.8	286.0	290.7	265.7	217.2	179.7	134.4	109.4	90.6	75.0
90°	123.5	125.0	120.3	114.1	100.0	82.8	62.5	37.5	18.8	6.3	3.1
92.5°	93.8	95.3	92.2	82.8	71.9	57.8	42.2	21.9	12.5	4.7	1.6
95°	57.8	59.4	56.3	50.0	43.8	32.8	21.9	14.1	7.8	3.1	0.0
97.5°	34.4	35.9	32.8	29.7	23.4	15.6	12.5	9.4	6.3	3.1	0.0
100°	20.3	20.3	18.8	15.6	10.9	9.4	7.8	6.3	4.7	1.6	0.0
102.5°	9.4	9.4	9.4	6.3	4.7	4.7	4.7	4.7	4.7	1.6	0.0
105°	3.1	3.1	1.6	1.6	1.6	3.1	3.1	3.1	3.1	1.6	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1	3.1	1.6	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	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°	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2
2.5°	3771.2	3741.5	3746.2	3719.7	3713.4	3685.3	3735.3	3740.0	3725.9	3740.0
5°	3818.1	3782.2	3791.6	3761.9	3754.0	3715.0	3755.6	3752.5	3741.5	3755.6
7.5°	3886.9	3846.3	3850.9	3816.6	3808.7	3765.0	3802.5	3791.6	3779.1	3796.2
10°	3974.4	3935.3	3936.9	3890.0	3885.3	3835.3	3883.8	3863.4	3844.7	3869.7
12.5°	4096.3	4041.6	4036.9	3985.4	3983.8	3932.2	3982.2	3965.0	3940.0	3979.1
15°	4237.0	4163.5	4144.8	4079.1	4077.6	4022.9	4072.9	4046.3	4033.8	4080.7
17.5°	4419.8	4327.6	4185.4	3961.9	3860.3	3877.5	4054.1	4118.2	3951.0	3976.0
20°	4530.8	4083.8	3876.0	3783.7	3735.3	3457.1	3080.4	3111.7	3482.1	3658.7
22.5°	4343.3	4210.4	4133.8	4004.1	3328.9	3233.6	3255.5	3249.2	2771.0	2628.8
25°	4734.0	4608.9	4469.8	3669.7	3530.6	3489.9	3500.9	3052.3	2791.3	2802.3
27.5°	5296.6	5135.6	4254.2	3907.2	3879.1	3819.7	3604.0	3064.8	3097.6	3119.5
30°	6007.7	5435.7	4530.8	4379.2	4322.9	4258.9	3344.6	3424.3	3485.2	3552.4
32.5°	6695.4	5287.2	5060.6	4902.8	4815.2	3866.6	3772.8	3919.7	3980.7	4038.5
35°	6632.9	5923.3	5629.5	5429.5	5265.4	4172.9	4255.7	4479.2	4640.2	4638.6
37.5°	6804.8	6615.7	6276.5	6023.4	4569.9	4674.6	4848.1	5102.8	5298.2	5296.6
40°	7522.2	7317.4	6998.6	6454.7	5063.7	5307.6	5545.1	5784.2	5924.9	5935.8
42.5°	8234.8	8077.0	7789.4	5701.4	5668.6	6006.2	6254.7	6406.3	6492.2	6521.9
45°	8944.4	8795.9	7653.4	6306.2	6406.3	6740.7	6892.3	6922.0	7014.2	7011.1
47.5°	9508.6	9382.0	7040.8	7025.2	7273.7	7505.0	7456.5	7419.0	7442.5	7455.0
50°	10029.0	8167.6	7590.9	7819.1	8197.3	8225.5	8023.8	6356.2	7869.1	7842.6
52.5°	9316.4	7970.7	8103.6	8638.1	9282.0	8955.3	8561.5	5571.7	7379.9	8081.7
55°	8152.0	8286.4	8586.5	9483.6	10119.7	9732.1	9074.1	5737.3	4898.1	3986.9
57.5°	8314.5	8527.1	9097.5	10336.9	10891.7	7708.1	8469.3	4044.7	2738.2	2736.6
60°	7742.5	8064.5	9086.6	10719.8	8816.2	4938.7	3393.0	92.2	531.4	526.7
62.5°	6545.4	7003.3	8669.3	10477.6	7303.4	4013.5	3022.6	7.8	3.1	3.1
65°	5062.2	5601.4	7228.3	9072.5	6470.3	3457.1	2244.3	0.0	0.0	0.0
67.5°	3319.6	3819.7	5427.9	7536.2	5371.6	2613.1	1508.2	0.0	0.0	0.0
70°	1383.2	2000.5	3372.7	5446.7	3951.0	1711.4	715.8	0.0	0.0	0.0
72.5°	400.1	609.5	1519.1	3252.4	2452.2	895.5	265.7	0.0	0.0	0.0
75°	264.1	278.2	459.5	1308.1	1192.5	328.2	107.8	0.0	0.0	0.0
77.5°	221.9	228.2	292.3	365.7	382.9	129.7	87.5	0.0	0.0	0.0
80°	204.7	206.3	262.6	271.9	204.7	107.8	86.0	0.0	0.0	0.0
82.5°	190.7	186.0	223.5	215.7	170.4	93.8	79.7	0.0	0.0	0.0
85°	131.3	134.4	151.6	192.2	103.2	46.9	56.3	0.0	0.0	0.0
87.5°	40.6	46.9	59.4	61.0	18.8	6.3	0.0	0.0	0.0	0.0
90°	1.6	0.0	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: P579511  
 CATALOG NUMBER: CST-CA8-330-740-U-T5N-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)