

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: P579608

Luminaire Tested: **CST-CA8-330-760-U-T5N-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-6)
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-T5N-HSS-HM-EX180
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: 33048 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U2 - G3

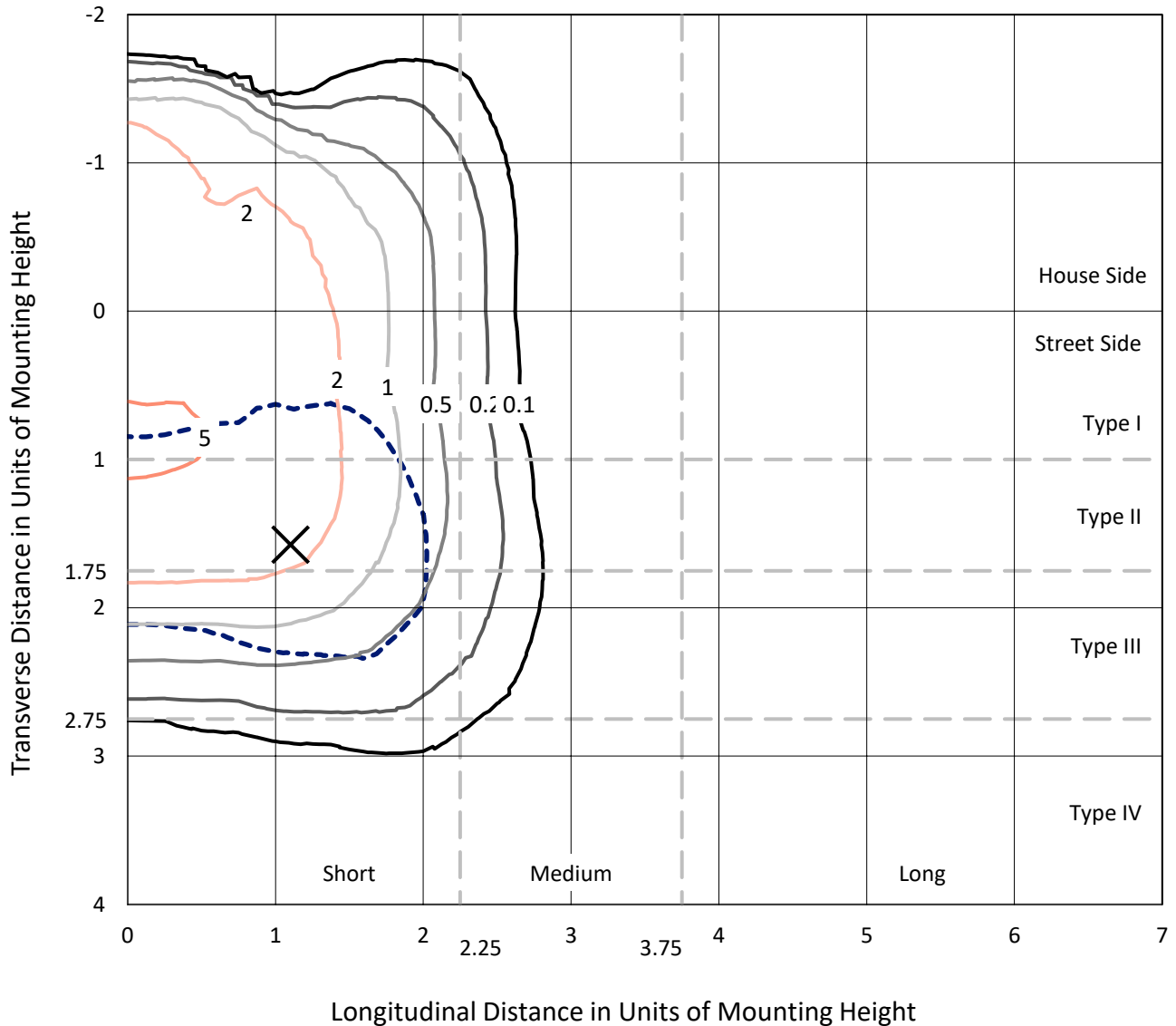
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

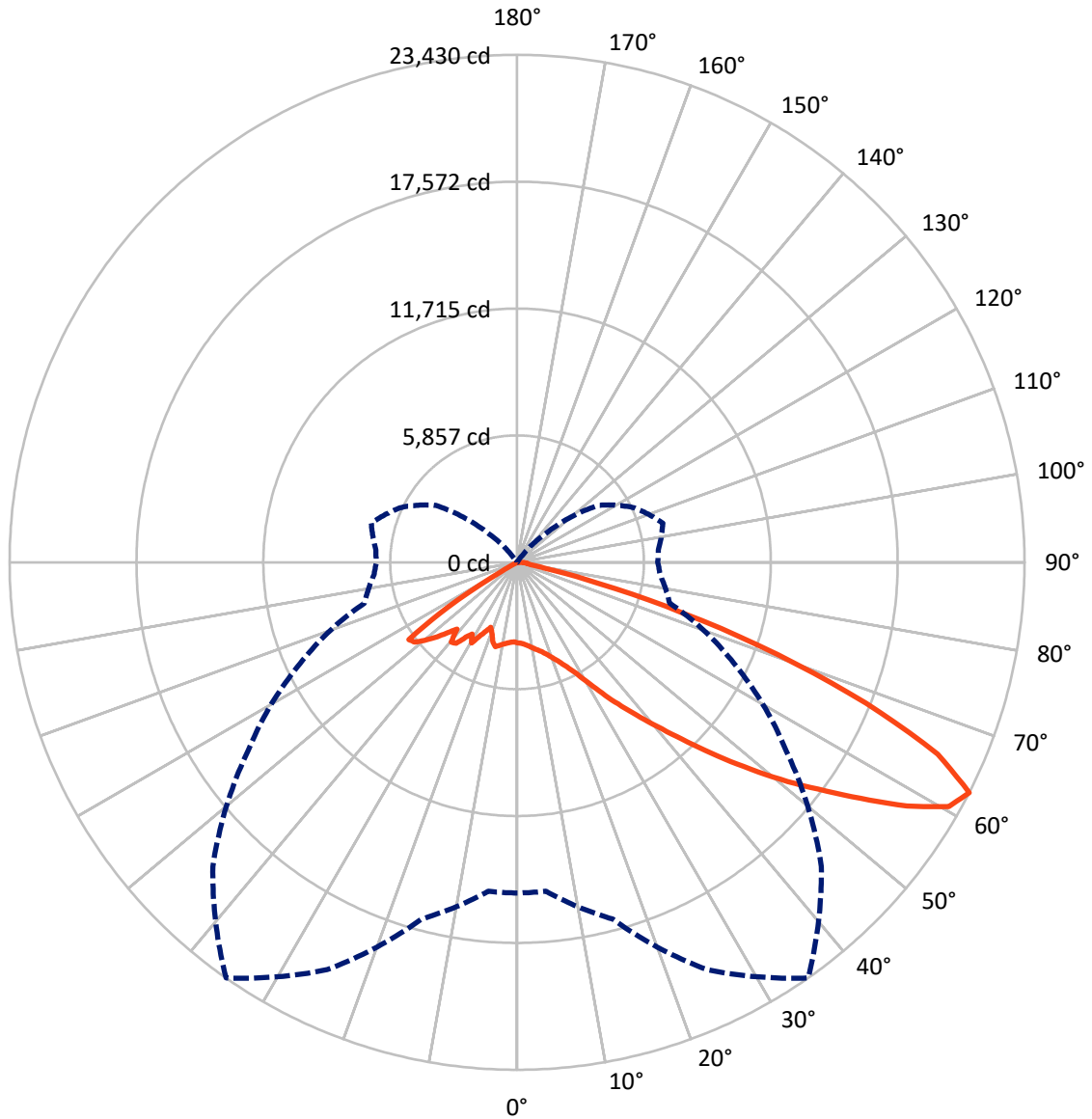
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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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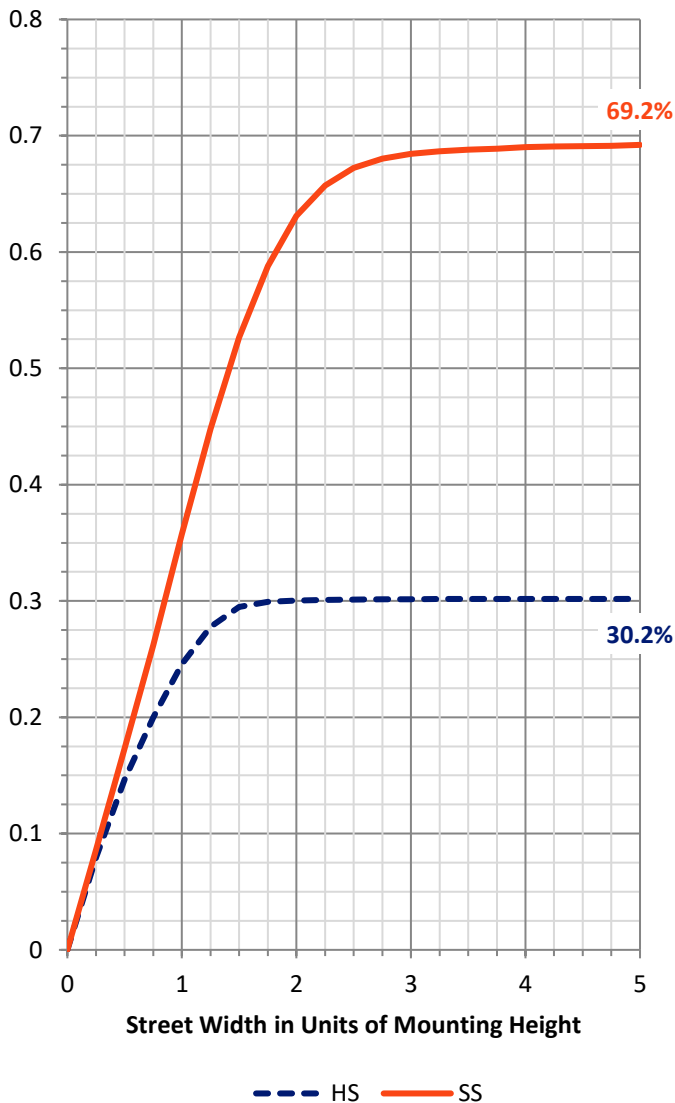
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10030.2	0.0	10030.2
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	22989.1	28.7	23017.8
	% Fixture	69.6	0.1	69.6
Total	Lumens	33019.3	28.7	33048.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.2	1.1
10°-20°	1178.5	3.6
20°-30°	2154.0	6.5
30°-40°	4104.8	12.4
40°-50°	7045.5	21.3
50°-60°	9451.8	28.6
60°-70°	7185.2	21.7
70°-80°	1360.5	4.1
80°-90°	171.8	0.5
90°-100°	25.3	0.1
100°-110°	3.4	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°	33019.3	99.9
0°-180°	33048.0	100.0

Coefficient of Utilization



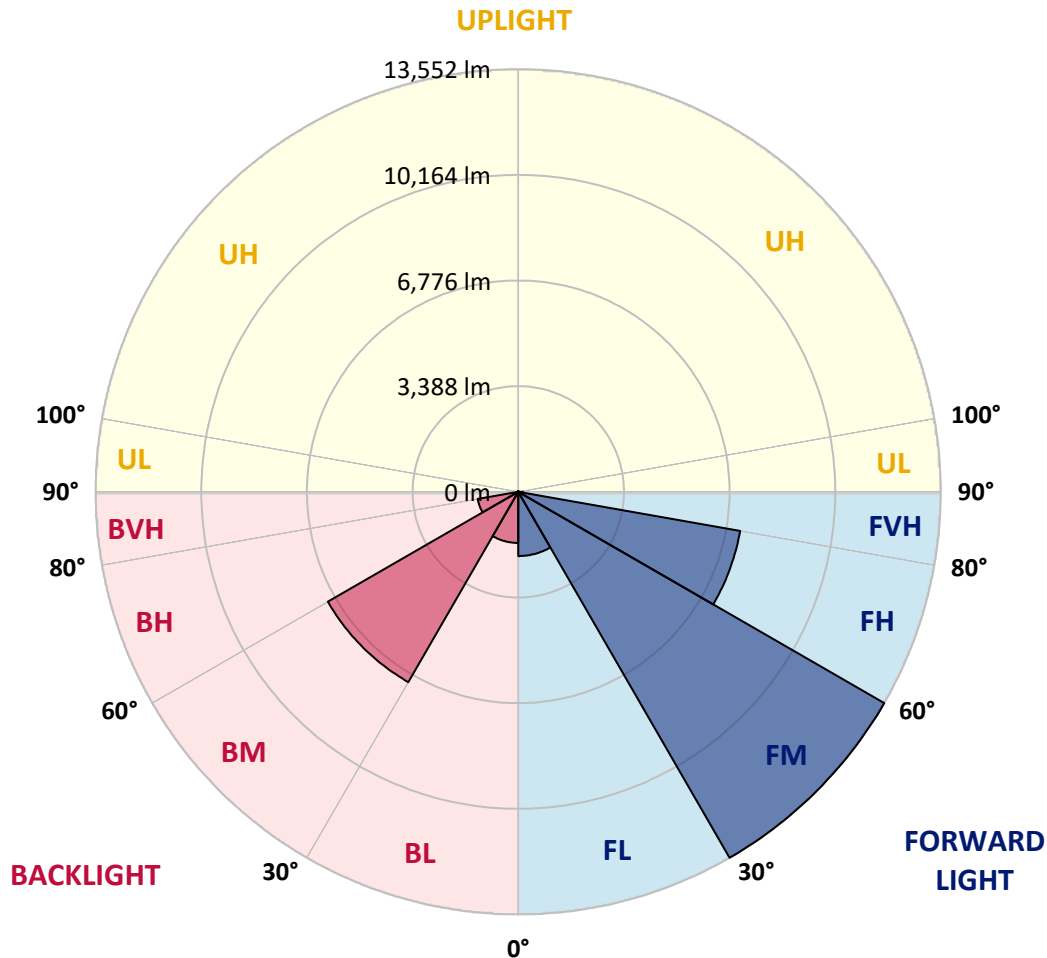
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2060.1	6.2			
FM (30°-60°)	13552.4	41.0			
FH (60°-80°)	7224.9	21.9			G3/7500
FVH (80°-90°)	151.7	0.5			G2/225
BL (0°-30°)	1639.6	5.0	B3/2500		
BM (30°-60°)	7049.6	21.3	B4/8500		
BH (60°-80°)	1320.8	4.0	B3/2500		G3/2500
BVH (80°-90°)	20.1	0.1			G1/100
UL (90°-100°)	25.3	0.1		U2/50	
UH (100°-180°)	3.5	0.0		U1/10	

BUG Rating: B4-U2-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3721.6	3721.6	3721.6	3721.6	3721.6	3721.6	3721.6	3721.6	3721.6	3721.6	3721.6
2.5°	3813.5	3785.5	3787.0	3812.0	3740.3	3766.8	3735.6	3766.8	3749.7	3762.1	3768.3
5°	3880.5	3852.5	3849.4	3875.8	3815.1	3833.8	3802.6	3824.4	3801.1	3816.6	3816.6
7.5°	3981.8	3953.7	3944.4	3964.6	3908.5	3922.6	3889.9	3902.3	3875.8	3896.1	3885.2
10°	4101.7	4070.6	4059.7	4070.6	4022.3	4030.1	3991.1	4005.1	3966.2	3989.6	3974.0
12.5°	4229.5	4189.0	4189.0	4198.3	4146.9	4148.5	4112.6	4120.4	4081.5	4106.4	4087.7
15°	4368.1	4322.9	4329.2	4338.5	4284.0	4293.3	4255.9	4268.4	4227.9	4252.8	4234.1
17.5°	4551.9	4503.6	4497.4	4525.4	4474.0	4491.2	4449.1	4464.7	4428.9	4436.6	4427.3
20°	4805.8	4745.1	4731.1	4768.5	4710.8	4723.3	4692.1	4723.3	4685.9	4629.8	4472.5
22.5°	5109.6	5056.7	5033.3	5058.2	4989.7	5011.5	5009.9	5059.8	4957.0	4603.3	4446.0
25°	5510.0	5474.1	5429.0	5432.1	5349.5	5382.2	5441.4	5480.4	5042.6	4732.6	4735.7
27.5°	6044.3	6008.5	5946.2	5922.8	5802.8	5882.3	5974.2	5594.1	5249.8	5329.3	5285.7
30°	6726.6	6720.4	6594.2	6553.7	6422.9	6522.6	6443.1	5791.9	5910.3	6020.9	5954.0
32.5°	7634.8	7591.2	7408.9	7335.7	7198.6	7256.3	6555.3	6461.8	6637.8	6787.4	6717.3
35°	8733.1	8600.7	8415.3	8270.4	8032.1	7711.2	6982.1	7164.4	7427.6	7633.3	7293.7
37.5°	10008.9	9865.6	9575.9	9315.7	8940.3	7940.2	7625.5	7990.0	8320.3	8097.5	7313.9
40°	11322.2	11194.4	10921.8	10586.9	9952.9	8650.5	8405.9	8842.1	9217.6	7941.7	7552.3
42.5°	12626.1	12517.0	12297.4	11967.1	11150.8	9496.4	9261.2	9730.1	9376.5	8245.5	8233.0
45°	13940.8	13886.3	13637.1	13355.1	12570.0	10579.1	10219.2	10585.3	9022.8	8973.0	8943.4
47.5°	15006.4	15015.7	14928.5	14782.1	14084.2	11767.7	11298.8	10213.0	9452.8	9507.3	9521.3
50°	16104.6	16034.5	16029.9	16039.2	15747.9	13299.0	12034.1	10044.8	10015.2	10010.5	9998.0
52.5°	16984.8	16896.0	17079.8	17226.3	17399.2	15007.9	11923.5	10614.9	10445.1	10385.9	10023.0
55°	17701.4	17667.1	17966.2	18461.6	19231.2	16818.1	12901.8	11171.1	10831.5	9448.1	8522.8
57.5°	18136.0	18185.9	18802.8	19776.4	21217.4	18318.3	14040.5	11735.0	9273.6	8321.8	8262.6
60°	17304.2	17567.4	18617.4	20754.7	22896.7	19729.7	14888.0	11848.7	8345.2	7835.8	7717.4
62.5°	15268.1	15243.2	17047.1	20754.7	23429.5	19869.9	15155.9	11043.3	7290.6	6626.9	6494.5
65°	10806.5	10872.0	12799.0	18703.1	21343.6	18481.9	13979.8	9388.9	5815.3	5206.2	5027.1
67.5°	6687.7	6683.0	8569.5	13774.2	17374.3	15473.7	11769.3	7197.1	4036.3	3461.5	3266.7
70°	2310.2	2375.7	3854.0	8060.1	12789.6	12122.9	8807.9	4544.1	2128.0	1517.3	1280.5
72.5°	919.1	940.9	1383.3	3593.9	7990.0	8099.1	5352.6	2207.4	637.1	405.0	380.1
75°	601.3	604.4	663.6	1297.7	3877.4	4357.2	2486.3	634.0	296.0	271.1	264.8
77.5°	518.8	520.3	551.5	657.4	1263.4	1694.9	707.2	375.4	247.7	222.8	216.5
80°	481.4	482.9	498.5	565.5	609.1	577.9	377.0	302.2	208.7	197.8	196.3
82.5°	454.9	461.1	468.9	509.4	492.3	434.6	313.1	244.6	160.5	171.4	176.0
85°	419.1	425.3	430.0	453.3	411.3	317.8	243.0	183.8	102.8	112.2	110.6
87.5°	314.7	317.8	311.6	308.4	286.6	222.8	160.5	116.8	40.5	37.4	34.3
90°	151.1	149.5	143.3	132.4	115.3	90.4	67.0	37.4	17.1	7.8	3.1
92.5°	120.0	118.4	115.3	104.4	90.4	67.0	48.3	26.5	15.6	6.2	1.6
95°	81.0	77.9	74.8	67.0	56.1	40.5	28.0	18.7	12.5	4.7	1.6
97.5°	53.0	51.4	46.7	40.5	31.2	21.8	17.1	14.0	10.9	4.7	1.6
100°	32.7	32.7	29.6	23.4	15.6	12.5	10.9	10.9	7.8	3.1	0.0
102.5°	20.3	18.7	17.1	10.9	7.8	7.8	7.8	7.8	6.2	3.1	0.0
105°	10.9	10.9	7.8	6.2	4.7	3.1	4.7	6.2	4.7	1.6	0.0
107.5°	3.1	3.1	3.1	1.6	1.6	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	3.1	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°	3721.6	3721.6	3721.6	3721.6	3721.6	3721.6	3721.6	3721.6	3721.6	3721.6
2.5°	3760.6	3731.0	3738.7	3709.1	3704.5	3673.3	3726.3	3729.4	3715.4	3731.0
5°	3808.8	3773.0	3787.0	3751.2	3745.0	3704.5	3746.5	3741.9	3731.0	3743.4
7.5°	3877.4	3841.6	3849.4	3807.3	3799.5	3754.3	3794.8	3779.2	3765.2	3782.4
10°	3972.4	3931.9	3938.1	3888.3	3882.1	3829.1	3875.8	3852.5	3832.2	3855.6
12.5°	4089.3	4036.3	4030.1	3977.1	3972.4	3922.6	3970.9	3947.5	3927.2	3964.6
15°	4223.2	4153.1	4143.8	4076.8	4069.0	4017.6	4064.3	4030.1	4014.5	4062.8
17.5°	4402.4	4154.7	4016.0	3917.9	3861.8	3833.8	3917.9	4031.6	3997.3	3998.9
20°	4329.2	4062.8	3877.4	3793.3	3732.5	3461.5	3087.6	3195.1	3413.2	3520.7
22.5°	4307.3	4213.9	4137.5	3995.8	3392.9	3240.2	3262.1	3237.1	2825.9	2668.5
25°	4724.8	4617.4	4452.2	3709.1	3534.7	3500.4	3512.9	3082.9	2772.9	2818.1
27.5°	5259.2	5148.6	4333.8	3917.9	3883.6	3838.4	3592.3	3054.9	3096.9	3140.5
30°	5932.1	5351.1	4519.2	4391.5	4327.6	4280.9	3368.0	3411.6	3481.7	3536.2
32.5°	6588.0	5333.9	5050.4	4891.5	4812.1	3905.4	3805.7	3907.0	3978.6	4020.7
35°	6595.8	5944.6	5645.5	5441.4	4936.7	4198.3	4290.2	4460.0	4636.0	4668.8
37.5°	6774.9	6636.3	6293.6	6036.5	3671.8	4685.9	4888.4	5083.1	5259.2	5270.1
40°	7488.4	7338.8	7017.9	6452.5	4055.0	4779.4	5547.4	5767.0	5915.0	5907.2
42.5°	8200.3	8097.5	7764.1	5734.3	4569.1	4140.7	6239.0	6383.9	6477.4	6542.8
45°	8916.9	8814.1	7687.8	6296.7	5181.3	4534.8	6070.8	6891.8	6994.6	7027.3
47.5°	9476.2	9222.2	7044.4	7042.9	5946.2	5039.5	5013.0	7349.8	7440.1	7416.7
50°	9993.4	8233.0	7614.6	7287.4	6737.5	5514.7	5330.8	6184.5	7843.6	7809.3
52.5°	9092.9	7990.0	8103.7	6628.5	7373.1	5986.7	5689.1	5545.8	7127.0	8044.5
55°	8131.8	8287.6	8603.8	7282.8	5349.5	6139.3	5992.9	5707.8	4809.0	4047.2
57.5°	8298.5	8530.6	8546.2	7888.8	5536.5	3835.3	4911.8	4299.6	2716.8	2723.1
60°	7742.3	8044.5	6246.8	5259.2	2977.0	799.2	77.9	68.5	473.6	576.4
62.5°	6545.9	6966.5	5963.3	4581.5	1909.9	29.6	7.8	1.6	0.0	0.0
65°	5069.1	5575.4	5039.5	3953.7	1694.9	9.3	0.0	0.0	0.0	0.0
67.5°	3343.1	3799.5	3829.1	3307.2	1412.9	4.7	0.0	0.0	0.0	0.0
70°	1400.5	1972.2	2383.5	2458.2	1110.7	1.6	0.0	0.0	0.0	0.0
72.5°	405.0	626.2	1146.5	1476.8	705.7	0.0	0.0	0.0	0.0	0.0
75°	269.5	288.2	331.8	665.2	352.1	0.0	0.0	0.0	0.0	0.0
77.5°	222.8	227.4	190.1	182.3	101.3	0.0	0.0	0.0	0.0	0.0
80°	202.5	199.4	152.7	107.5	37.4	0.0	0.0	0.0	0.0	0.0
82.5°	186.9	177.6	110.6	56.1	24.9	0.0	0.0	0.0	0.0	0.0
85°	126.2	124.6	49.8	34.3	4.7	0.0	0.0	0.0	0.0	0.0
87.5°	34.3	43.6	10.9	4.7	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	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: P579608
 CATALOG NUMBER: CST-CA8-330-760-U-T5N-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)