

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: P579512

Luminaire Tested: **CST-CA8-330-740-U-T5N-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579512
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-CA8-330-740-U-T5N-HSS-HM-EX180
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: 33155 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U2 - G3

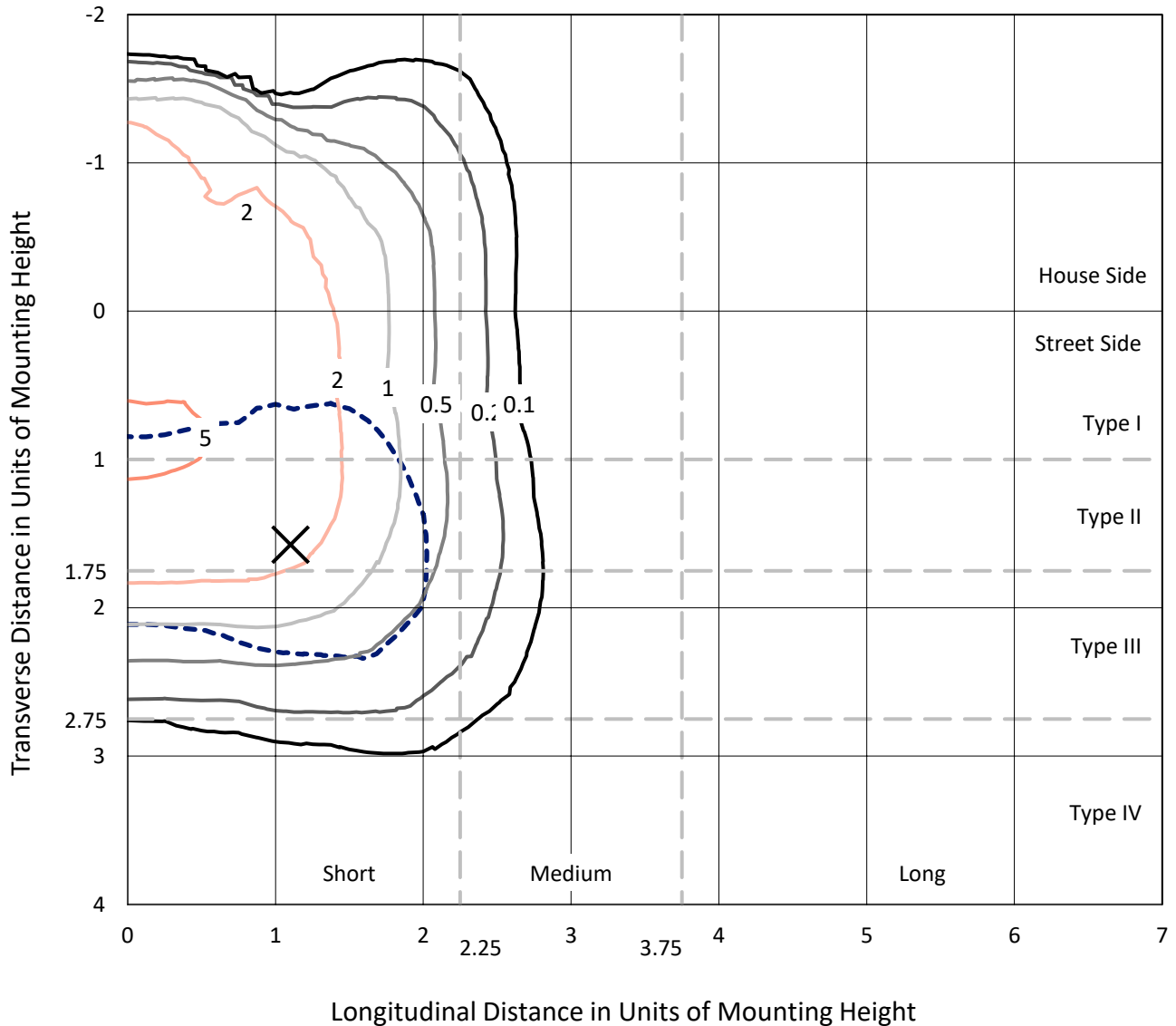
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

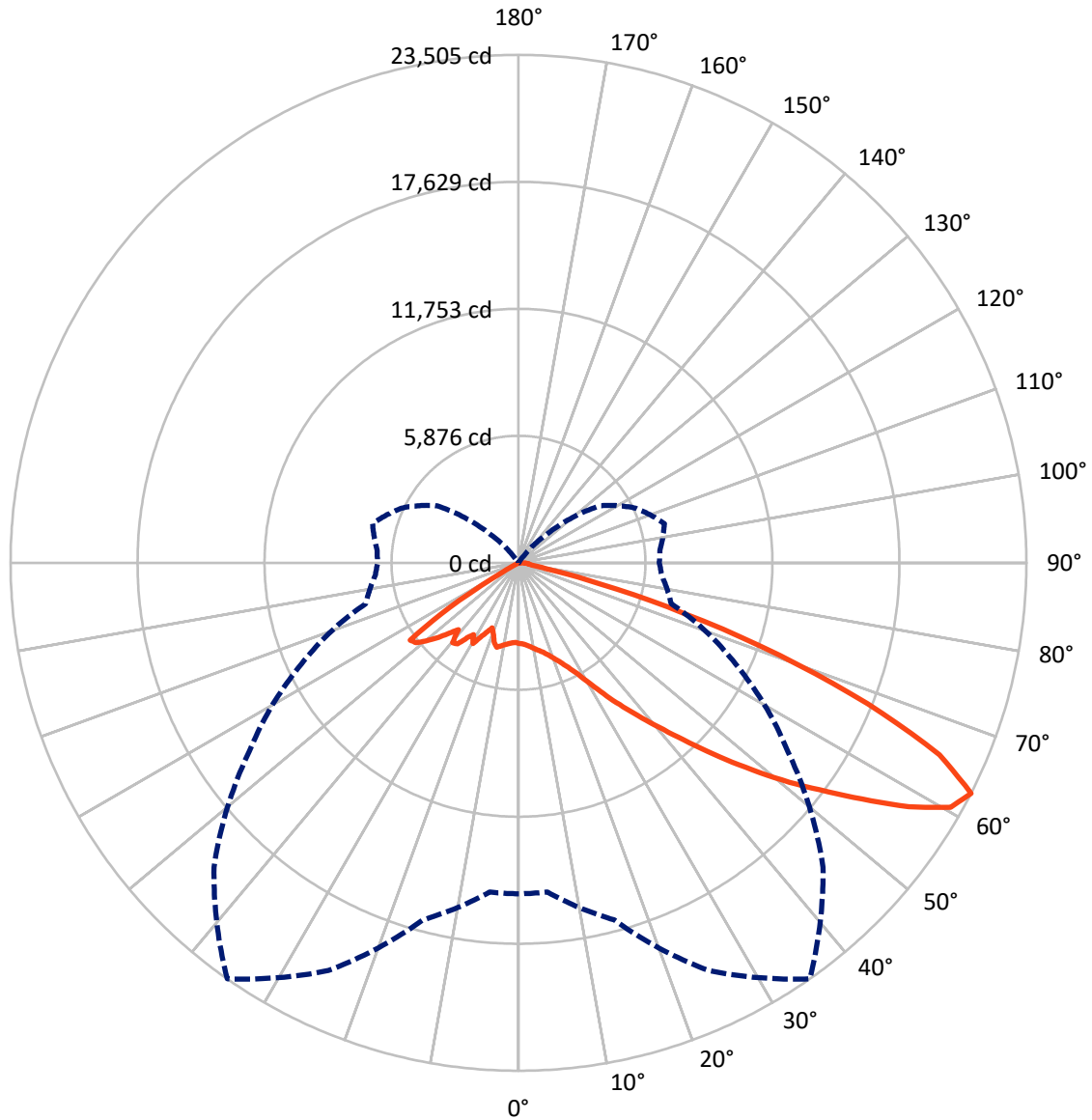
✕ Max cd
 - - - 1/2 Max cd



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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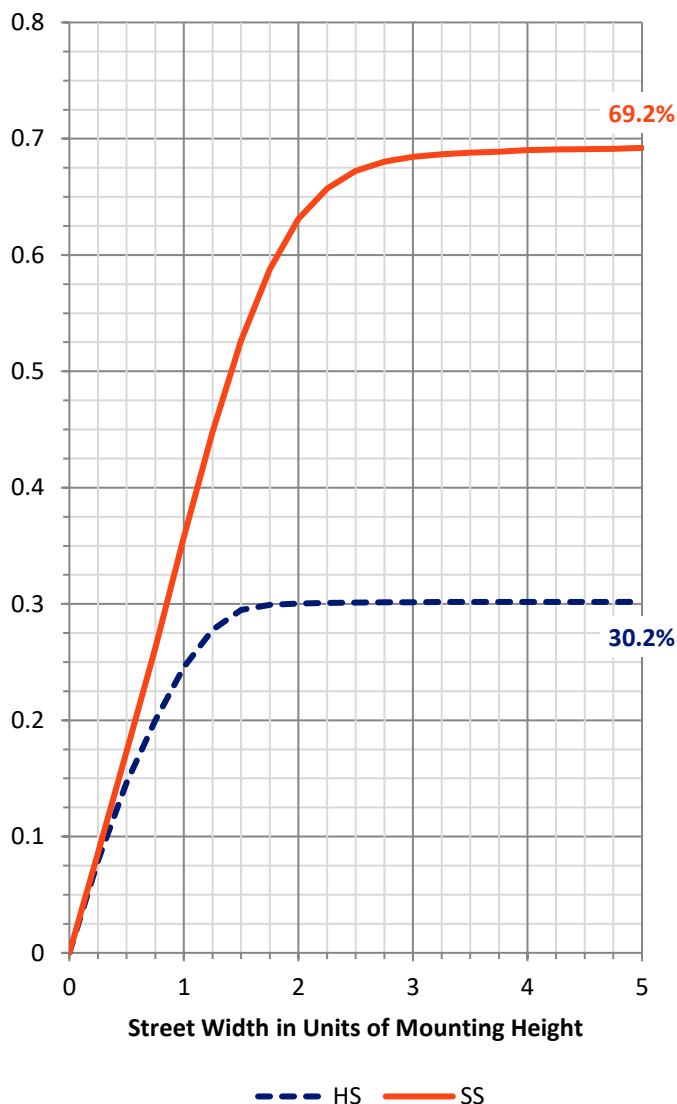
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10062.6	0.0	10062.7
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	23063.6	28.8	23092.3
	% Fixture	69.6	0.1	69.6
Total	Lumens	33126.2	28.8	33155.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.4	1.1
10°-20°	1182.3	3.6
20°-30°	2161.0	6.5
30°-40°	4118.1	12.4
40°-50°	7068.3	21.3
50°-60°	9482.4	28.6
60°-70°	7208.5	21.7
70°-80°	1364.9	4.1
80°-90°	172.4	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°	33126.2	99.9
0°-180°	33155.0	100.0

Coefficient of Utilization

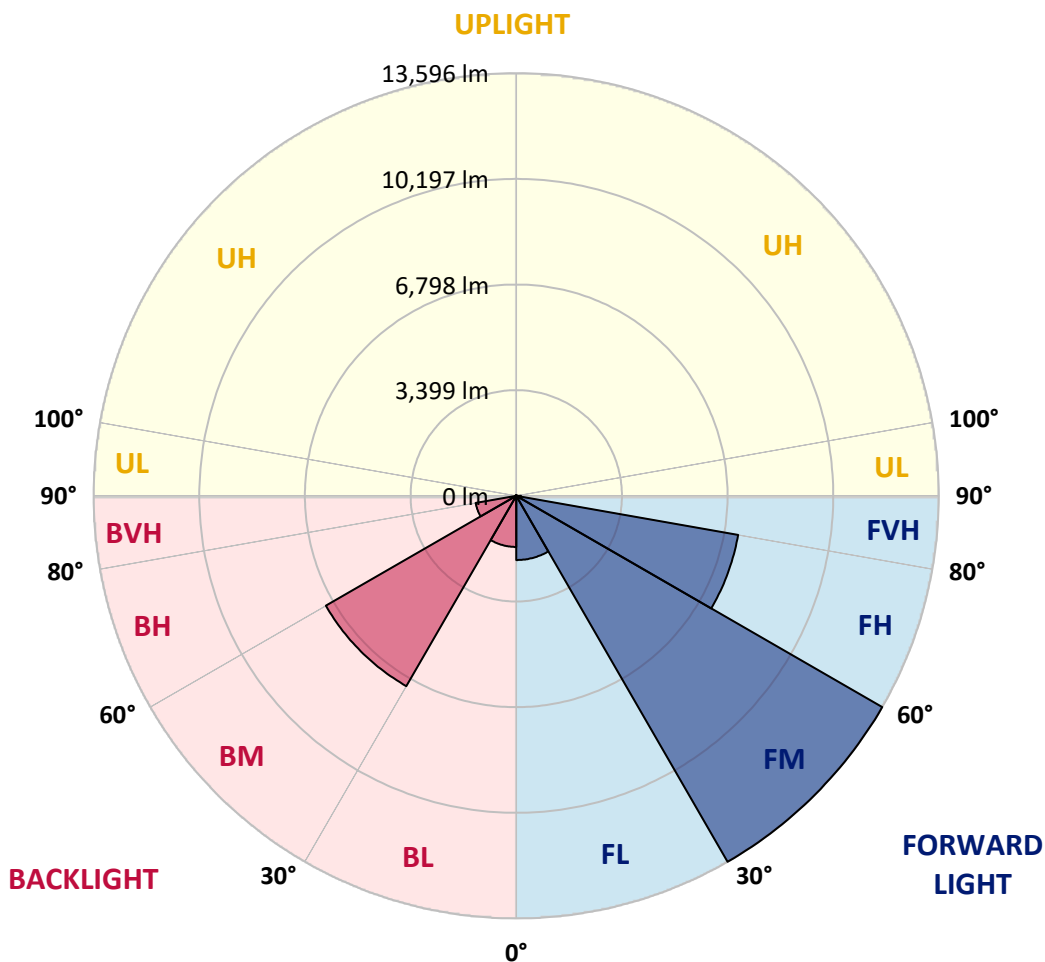


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2066.8	6.2			
FM (30°-60°)	13596.3	41.0			
FH (60°-80°)	7248.3	21.9			G3/7500
FVH (80°-90°)	152.2	0.5			G2/225
BL (0°-30°)	1644.9	5.0	B3/2500		
BM (30°-60°)	7072.5	21.3	B4/8500		
BH (60°-80°)	1325.1	4.0	B3/2500		G3/2500
BVH (80°-90°)	20.2	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°	3733.7	3733.7	3733.7	3733.7	3733.7	3733.7	3733.7	3733.7	3733.7	3733.7	3733.7
2.5°	3825.9	3797.7	3799.3	3824.3	3752.4	3779.0	3747.7	3779.0	3761.8	3774.3	3780.5
5°	3893.1	3864.9	3861.8	3888.4	3827.4	3846.2	3814.9	3836.8	3813.4	3829.0	3829.0
7.5°	3994.7	3966.5	3957.1	3977.5	3921.2	3935.3	3902.4	3915.0	3888.4	3908.7	3897.8
10°	4115.0	4083.7	4072.8	4083.7	4035.3	4043.1	4004.0	4018.1	3979.0	4002.5	3986.8
12.5°	4243.2	4202.5	4202.5	4211.9	4160.3	4161.9	4125.9	4133.8	4094.7	4119.7	4100.9
15°	4382.2	4336.9	4343.2	4352.6	4297.9	4307.2	4269.7	4282.2	4241.6	4266.6	4247.8
17.5°	4566.7	4518.2	4512.0	4540.1	4488.5	4505.7	4463.5	4479.1	4443.2	4451.0	4441.6
20°	4821.4	4760.5	4746.4	4783.9	4726.1	4738.6	4707.3	4738.6	4701.1	4644.8	4487.0
22.5°	5126.2	5073.0	5049.6	5074.6	5005.8	5027.7	5026.1	5076.2	4973.0	4618.2	4460.4
25°	5527.8	5491.9	5446.5	5449.7	5366.8	5399.7	5459.1	5498.1	5059.0	4748.0	4751.1
27.5°	6063.9	6027.9	5965.4	5942.0	5821.6	5901.3	5993.5	5612.2	5266.8	5346.5	5302.8
30°	6748.4	6742.2	6615.6	6574.9	6443.6	6543.7	6464.0	5810.7	5929.5	6040.4	5973.2
32.5°	7659.6	7615.8	7432.9	7359.5	7222.0	7279.8	6576.5	6482.7	6659.3	6809.4	6739.0
35°	8761.4	8628.5	8442.5	8297.2	8058.1	7736.1	7004.7	7187.6	7451.7	7658.0	7317.3
37.5°	10041.3	9897.6	9606.9	9345.9	8969.2	7965.9	7650.2	8015.9	8347.2	8123.7	7337.6
40°	11358.8	11230.7	10957.2	10621.2	9985.1	8678.5	8433.2	8870.8	9247.4	7967.4	7576.7
42.5°	12666.9	12557.5	12337.2	12005.8	11186.9	9527.2	9291.2	9761.6	9406.8	8272.2	8259.7
45°	13986.0	13931.3	13681.2	13398.4	12610.7	10613.3	10252.3	10619.6	9052.1	9002.0	8972.3
47.5°	15055.0	15064.4	14976.8	14829.9	14129.8	11805.8	11335.4	10246.1	9483.4	9538.1	9552.2
50°	16156.8	16086.5	16081.8	16091.2	15798.9	13342.1	12073.1	10077.3	10047.6	10042.9	10030.4
52.5°	17039.8	16950.7	17135.1	17282.0	17455.5	15056.5	11962.1	10649.3	10478.9	10419.6	10055.4
55°	17758.7	17724.3	18024.4	18521.4	19293.4	16872.6	12943.6	11207.2	10866.5	9478.7	8550.4
57.5°	18194.8	18244.8	18863.7	19840.4	21286.1	18377.6	14086.0	11773.0	9303.7	8348.8	8289.4
60°	17360.2	17624.3	18677.7	20821.9	22970.8	19793.6	14936.2	11887.1	8372.2	7861.2	7742.4
62.5°	15317.5	15292.5	17102.3	20821.9	23505.3	19934.2	15205.0	11079.1	7314.2	6648.4	6515.5
65°	10841.5	10907.2	12840.4	18763.6	21412.7	18541.7	14025.1	9419.3	5834.1	5223.1	5043.3
67.5°	6709.3	6704.6	8597.3	13818.8	17430.5	15523.8	11807.4	7220.4	4049.4	3472.7	3277.3
70°	2317.7	2383.4	3866.5	8086.2	12831.0	12162.1	8836.4	4558.8	2134.9	1522.2	1284.7
72.5°	922.1	944.0	1387.8	3605.5	8015.9	8125.3	5370.0	2214.6	639.2	406.3	381.3
75°	603.3	606.4	665.8	1301.9	3889.9	4371.3	2494.3	636.1	296.9	271.9	265.7
77.5°	520.4	522.0	553.3	659.5	1267.5	1700.4	709.5	376.6	248.5	223.5	217.2
80°	482.9	484.5	500.1	567.3	611.1	579.8	378.2	303.2	209.4	198.5	196.9
82.5°	456.4	462.6	470.4	511.1	493.9	436.0	314.1	245.4	161.0	171.9	176.6
85°	420.4	426.7	431.3	454.8	412.6	318.8	243.8	184.4	103.1	112.5	111.0
87.5°	315.7	318.8	312.6	309.4	287.6	223.5	161.0	117.2	40.6	37.5	34.4
90°	151.6	150.0	143.8	132.8	115.7	90.6	67.2	37.5	17.2	7.8	3.1
92.5°	120.3	118.8	115.7	104.7	90.6	67.2	48.4	26.6	15.6	6.3	1.6
95°	81.3	78.1	75.0	67.2	56.3	40.6	28.1	18.8	12.5	4.7	1.6
97.5°	53.1	51.6	46.9	40.6	31.3	21.9	17.2	14.1	10.9	4.7	1.6
100°	32.8	32.8	29.7	23.4	15.6	12.5	10.9	10.9	7.8	3.1	0.0
102.5°	20.3	18.8	17.2	10.9	7.8	7.8	7.8	7.8	6.3	3.1	0.0
105°	10.9	10.9	7.8	6.3	4.7	3.1	4.7	6.3	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°	3733.7	3733.7	3733.7	3733.7	3733.7	3733.7	3733.7	3733.7	3733.7	3733.7
2.5°	3772.7	3743.0	3750.9	3721.2	3716.5	3685.2	3738.3	3741.5	3727.4	3743.0
5°	3821.2	3785.2	3799.3	3763.4	3757.1	3716.5	3758.7	3754.0	3743.0	3755.5
7.5°	3889.9	3854.0	3861.8	3819.6	3811.8	3766.5	3807.1	3791.5	3777.4	3794.6
10°	3985.3	3944.6	3950.9	3900.9	3894.6	3841.5	3888.4	3864.9	3844.6	3868.1
12.5°	4102.5	4049.4	4043.1	3990.0	3985.3	3935.3	3983.7	3960.3	3940.0	3977.5
15°	4236.9	4166.6	4157.2	4090.0	4082.2	4030.6	4077.5	4043.1	4027.5	4075.9
17.5°	4416.6	4168.1	4029.0	3930.6	3874.3	3846.2	3930.6	4044.7	4010.3	4011.8
20°	4343.2	4075.9	3889.9	3805.6	3744.6	3472.7	3097.6	3205.4	3424.2	3532.1
22.5°	4321.3	4227.5	4150.9	4008.7	3403.9	3250.7	3272.6	3247.6	2835.0	2677.2
25°	4740.1	4632.3	4466.6	3721.2	3546.1	3511.7	3524.2	3092.9	2781.9	2827.2
27.5°	5276.2	5165.2	4347.9	3930.6	3896.2	3850.9	3603.9	3064.8	3107.0	3150.7
30°	5951.4	5368.4	4533.8	4405.7	4341.6	4294.7	3378.9	3422.7	3493.0	3547.7
32.5°	6609.3	5351.2	5066.8	4907.4	4827.7	3918.1	3818.1	3919.6	3991.5	4033.7
35°	6617.1	5963.9	5663.8	5459.1	4952.7	4211.9	4304.1	4474.5	4651.1	4683.9
37.5°	6796.9	6657.8	6313.9	6056.1	3683.6	4701.1	4904.2	5099.6	5276.2	5287.1
40°	7512.6	7362.6	7040.7	6473.3	4068.1	4794.8	5565.3	5785.7	5934.2	5926.3
42.5°	8226.9	8123.7	7789.3	5752.9	4583.9	4154.1	6259.2	6404.6	6498.3	6564.0
45°	8945.8	8842.6	7712.7	6317.1	5198.1	4549.5	6090.4	6914.1	7017.2	7050.0
47.5°	9506.8	9252.1	7067.2	7065.7	5965.4	5055.8	5029.3	7373.5	7464.2	7440.8
50°	10025.7	8259.7	7639.2	7311.0	6759.3	5532.5	5348.1	6204.5	7869.0	7834.6
52.5°	9122.4	8015.9	8130.0	6649.9	7397.0	6006.1	5707.5	5563.8	7150.1	8070.6
55°	8158.1	8314.4	8631.6	7306.3	5366.8	6159.2	6012.3	5726.3	4824.5	4060.3
57.5°	8325.3	8558.2	8573.8	7914.3	5554.4	3847.7	4927.7	4313.5	2725.6	2731.9
60°	7767.4	8070.6	6267.0	5276.2	2986.6	801.7	78.1	68.8	475.1	578.3
62.5°	6567.1	6989.1	5982.6	4596.4	1916.1	29.7	7.8	1.6	0.0	0.0
65°	5085.5	5593.5	5055.8	3966.5	1700.4	9.4	0.0	0.0	0.0	0.0
67.5°	3353.9	3811.8	3841.5	3317.9	1417.5	4.7	0.0	0.0	0.0	0.0
70°	1405.0	1978.6	2391.2	2466.2	1114.3	1.6	0.0	0.0	0.0	0.0
72.5°	406.3	628.3	1150.3	1481.6	708.0	0.0	0.0	0.0	0.0	0.0
75°	270.4	289.1	332.9	667.3	353.2	0.0	0.0	0.0	0.0	0.0
77.5°	223.5	228.2	190.7	182.9	101.6	0.0	0.0	0.0	0.0	0.0
80°	203.2	200.0	153.2	107.8	37.5	0.0	0.0	0.0	0.0	0.0
82.5°	187.5	178.2	111.0	56.3	25.0	0.0	0.0	0.0	0.0	0.0
85°	126.6	125.0	50.0	34.4	4.7	0.0	0.0	0.0	0.0	0.0
87.5°	34.4	43.8	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: P579512
 CATALOG NUMBER: CST-CA8-330-740-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)