

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: P579609

Luminaire Tested: **CST-CA8-330-760-U-T5N-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-4)
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-EX90
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: 40227 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U2 - G4

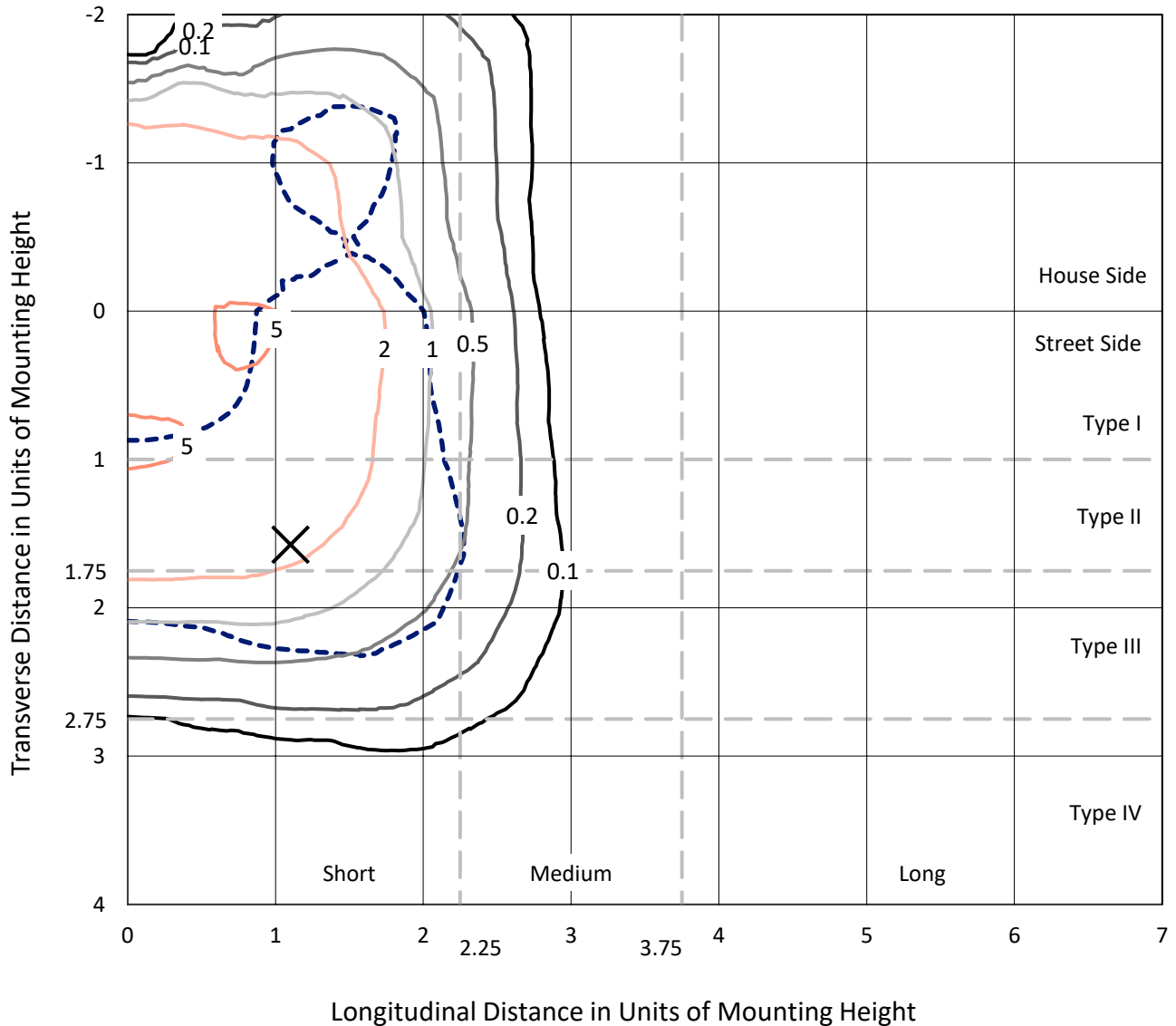
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

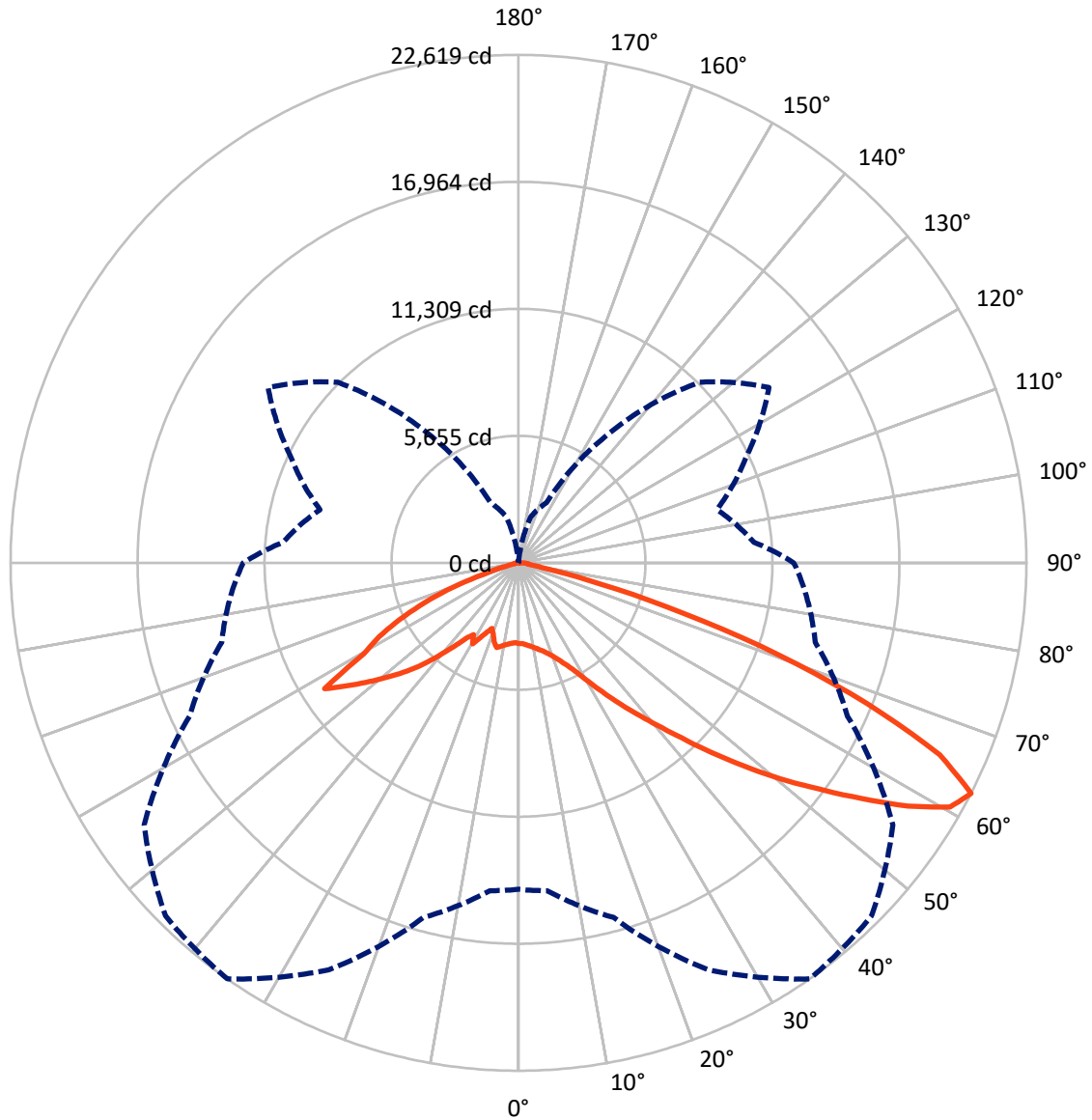
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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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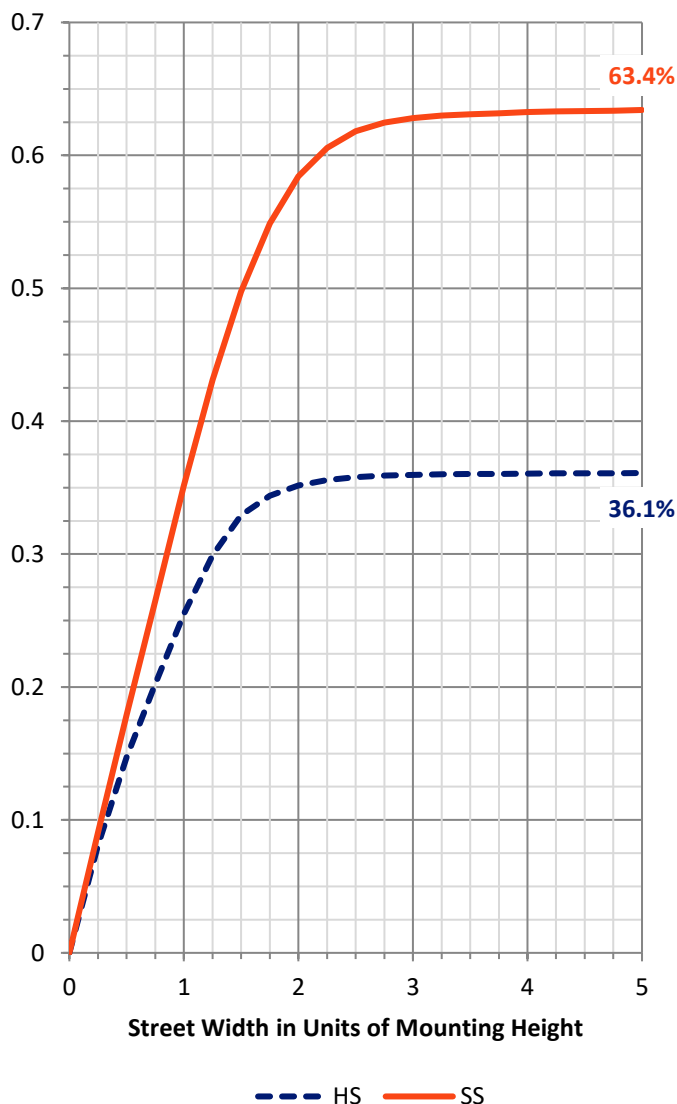
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14601.4	0.0	14601.5
	% Fixture	36.3	0.0	36.3
Street Side	Lumens	25606.5	19.1	25625.5
	% Fixture	63.7	0.0	63.7
Total	Lumens	40207.9	19.1	40227.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.9	0.9
10°-20°	1143.7	2.8
20°-30°	2200.3	5.5
30°-40°	4389.3	10.9
40°-50°	8014.6	19.9
50°-60°	11976.7	29.8
60°-70°	10035.3	24.9
70°-80°	1878.0	4.7
80°-90°	216.2	0.5
90°-100°	17.2	0.0
100°-110°	1.8	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°	40207.9	100.0
0°-180°	40227.0	100.0

Coefficient of Utilization

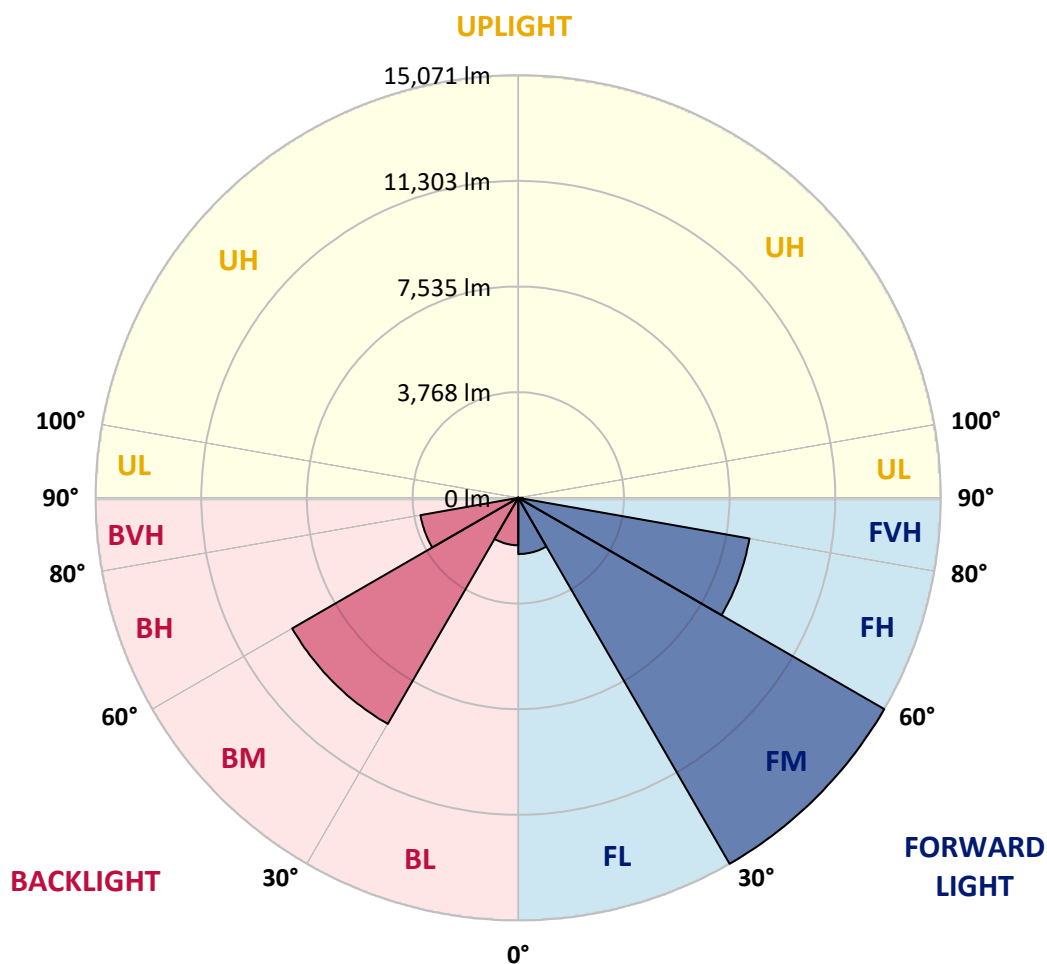


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2005.8	5.0			
FM	(30°-60°)	15070.9	37.5			
FH	(60°-80°)	8372.4	20.8			G4/12000
FVH	(80°-90°)	157.4	0.4			G2/225
BL	(0°-30°)	1692.0	4.2	B3/2500		
BM	(30°-60°)	9309.7	23.1	B5		
BH	(60°-80°)	3540.9	8.8	B4/5000		G4/5000
BVH	(80°-90°)	58.7	0.1			G1/100
UL	(90°-100°)	17.2	0.0		U2/50	
UH	(100°-180°)	1.9	0.0		U1/10	

BUG Rating: B5-U2-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3599.4	3599.4	3599.4	3599.4	3599.4	3599.4	3599.4	3599.4	3599.4	3599.4	3599.4
2.5°	3676.3	3646.1	3650.6	3671.8	3605.4	3632.5	3603.9	3631.0	3622.0	3634.1	3643.1
5°	3729.1	3691.4	3694.4	3718.5	3667.2	3689.8	3661.2	3679.3	3664.2	3680.8	3682.3
7.5°	3801.4	3769.8	3765.2	3789.4	3745.6	3765.2	3736.6	3745.6	3730.6	3750.2	3744.1
10°	3897.9	3869.3	3861.7	3878.3	3843.7	3854.2	3824.0	3836.1	3813.5	3836.1	3825.6
12.5°	4005.0	3967.3	3968.8	3986.9	3952.2	3959.8	3935.6	3949.2	3922.1	3946.2	3938.7
15°	4131.7	4077.4	4087.9	4107.5	4074.4	4097.0	4068.3	4087.9	4062.3	4087.9	4078.9
17.5°	4296.0	4234.2	4241.7	4273.4	4246.3	4282.5	4249.3	4273.4	4261.3	4277.9	4274.9
20°	4504.1	4463.4	4455.9	4495.1	4455.9	4501.1	4483.0	4525.2	4528.2	4544.8	4552.4
22.5°	4781.6	4754.4	4736.3	4763.5	4728.8	4760.5	4786.1	4858.5	4885.6	4929.3	4932.4
25°	5151.0	5149.5	5108.8	5110.3	5066.6	5108.8	5181.2	5294.3	5366.6	5422.4	5401.3
27.5°	5650.1	5659.2	5597.3	5573.2	5522.0	5585.3	5734.6	5874.8	6006.0	6084.4	6084.4
30°	6301.5	6310.6	6220.1	6171.9	6125.1	6235.2	6413.1	6595.6	6782.6	6895.7	6870.0
32.5°	7164.1	7135.4	7005.7	6918.3	6838.4	6965.0	7170.1	7376.7	7631.5	7794.4	7774.8
35°	8210.5	8106.5	7976.8	7814.0	7642.1	7741.6	7934.6	8194.0	8548.3	8792.6	8730.8
37.5°	9425.9	9323.4	9101.7	8821.3	8521.2	8533.2	8685.5	9134.9	9578.2	9777.3	9735.0
40°	10688.0	10608.1	10404.6	10044.2	9501.3	9376.2	9626.5	10167.8	10591.5	10841.8	10771.0
42.5°	11974.3	11892.9	11739.0	11377.2	10657.9	10356.3	10617.2	11206.8	11659.1	11904.9	11823.5
45°	13257.5	13164.0	13041.9	12722.2	12036.1	11594.3	11740.6	12281.9	12695.1	12974.0	12806.6
47.5°	14385.4	14323.6	14240.7	14111.0	13510.8	13022.3	13011.7	13369.1	13654.1	13838.1	13633.0
50°	15367.1	15323.3	15370.1	15342.9	15124.3	14679.5	14406.5	14382.4	14474.4	14608.6	14316.1
52.5°	16247.7	16170.8	16344.2	16559.8	16721.2	16630.7	15747.1	15251.0	15149.9	15195.2	14863.4
55°	16968.5	16932.3	17223.3	17764.6	18511.1	18710.1	17123.8	16095.4	15722.9	15698.8	15321.8
57.5°	17408.8	17460.0	18042.1	19073.5	20442.7	20506.0	18814.1	16998.6	16280.9	16021.5	15587.2
60°	16707.6	16905.1	17898.8	20026.5	22081.8	22121.0	20055.2	17164.5	15584.2	15003.7	14465.3
62.5°	14539.2	14656.8	16347.2	19994.8	22618.6	22235.6	20350.7	16163.2	13682.7	12756.9	12259.3
65°	10241.7	10461.9	12272.8	17989.3	20611.6	20659.8	18669.4	13975.3	10926.3	9902.4	9581.2
67.5°	6185.4	6396.5	8325.1	12986.1	16755.9	17297.2	15573.7	10581.0	7835.1	6541.3	6217.1
70°	2008.5	2237.7	3793.9	7654.1	12325.6	13623.9	11719.4	6886.6	4103.0	2874.1	2525.7
72.5°	763.0	832.4	1235.0	3343.0	7676.8	9095.7	7248.5	3454.6	1271.2	757.0	665.0
75°	496.1	506.7	577.5	1171.6	3701.9	5007.8	3493.8	1011.8	509.7	452.4	419.2
77.5°	426.7	434.3	464.4	583.6	1179.2	1915.0	1002.8	517.2	425.2	377.0	354.4
80°	402.6	405.6	425.2	494.6	551.9	639.4	482.5	432.8	370.9	354.4	337.8
82.5°	381.5	392.1	402.6	449.4	447.8	459.9	387.5	339.3	315.2	331.7	325.7
85°	355.9	361.9	369.4	401.1	364.9	309.1	298.6	233.7	227.7	242.8	227.7
87.5°	250.3	265.4	256.3	269.9	253.3	197.5	167.4	132.7	105.6	87.5	84.4
90°	102.5	104.0	98.0	90.5	79.9	66.3	52.8	33.2	15.1	7.5	3.0
92.5°	79.9	79.9	76.9	69.4	60.3	49.8	37.7	21.1	10.6	4.5	1.5
95°	49.8	51.3	48.3	43.7	37.7	30.2	22.6	12.1	7.5	3.0	1.5
97.5°	31.7	31.7	28.7	25.6	21.1	15.1	10.6	9.0	6.0	3.0	0.0
100°	18.1	18.1	16.6	13.6	10.6	7.5	7.5	6.0	4.5	1.5	0.0
102.5°	10.6	10.6	7.5	6.0	4.5	4.5	4.5	4.5	3.0	1.5	0.0
105°	4.5	4.5	3.0	3.0	1.5	1.5	3.0	3.0	3.0	1.5	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	3.0	1.5	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	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°	3599.4	3599.4	3599.4	3599.4	3599.4	3599.4	3599.4	3599.4	3599.4	3599.4
2.5°	3637.1	3609.9	3614.5	3588.8	3584.3	3558.7	3609.9	3616.0	3600.9	3614.5
5°	3679.3	3646.1	3656.7	3628.0	3623.5	3588.8	3634.1	3631.0	3619.0	3632.5
7.5°	3742.6	3707.9	3714.0	3682.3	3676.3	3638.6	3680.8	3667.2	3655.2	3671.8
10°	3831.6	3792.4	3795.4	3754.7	3759.2	3709.4	3760.7	3736.6	3721.5	3744.1
12.5°	3938.7	3894.9	3896.4	3854.2	3852.7	3804.4	3849.7	3836.1	3813.5	3848.2
15°	4077.4	4027.6	4023.1	3967.3	3952.2	3897.9	3940.2	3914.5	3899.4	3949.2
17.5°	4271.9	4216.1	4199.5	4131.7	3849.7	3686.8	3913.0	3989.9	3896.4	3881.4
20°	4531.3	4484.5	4446.8	4344.3	3870.8	3362.6	2987.2	2990.2	3385.2	3567.7
22.5°	4882.6	4826.8	4755.9	4609.7	3551.1	3150.0	3151.5	3147.0	2700.7	2512.2
25°	5363.6	5295.8	5151.0	4324.7	3769.8	3398.8	3389.8	2948.0	2702.2	2715.7
27.5°	6013.5	5874.8	5027.4	4685.1	4158.8	3721.5	3504.4	2967.6	2997.7	3018.8
30°	6839.9	6281.9	5433.0	5229.4	4626.3	4149.8	3240.5	3314.4	3374.7	3388.3
32.5°	7687.3	6300.0	6081.4	5865.8	5202.3	3775.8	3652.1	3792.4	3855.7	3863.3
35°	7679.8	7072.1	6790.1	6547.3	5736.1	4039.7	4118.1	4333.7	4495.1	4487.5
37.5°	8127.6	7924.0	7587.8	7280.2	5163.1	4550.9	4691.1	4935.4	5131.4	5125.4
40°	9064.0	8828.8	8472.9	7827.5	5716.5	5135.9	5332.0	5594.3	5733.1	5740.6
42.5°	9949.2	9754.6	9391.2	7313.3	6408.6	5840.1	6018.1	6194.5	6280.4	6307.6
45°	10829.8	10691.1	9481.7	8082.4	7245.5	6548.8	6666.5	6699.6	6790.1	6779.5
47.5°	11544.5	11390.7	9116.8	9047.4	8260.3	7221.4	7212.3	7168.6	7201.8	7209.3
50°	12197.5	10344.2	9849.6	10080.4	9324.9	7907.5	7735.6	7646.6	7601.4	7581.8
52.5°	12713.2	10347.3	10534.2	11147.9	10526.7	8652.4	8282.9	8032.6	7032.9	7815.5
55°	13152.0	10774.0	11182.6	12289.4	11562.6	9432.0	8777.5	8331.2	4694.1	3763.7
57.5°	13403.8	11098.2	11825.0	13358.5	12467.4	10299.0	8080.9	6987.6	2653.9	2650.9
60°	12431.2	10516.1	11806.9	13919.5	12206.5	7988.9	3290.3	2753.4	502.1	515.7
62.5°	10523.7	9148.5	11197.7	13611.9	11368.1	7028.4	2951.0	2120.1	16.6	13.6
65°	8153.2	7298.3	9428.9	11972.8	10342.7	5864.2	2200.0	1527.5	4.5	0.0
67.5°	5333.5	5143.5	6957.5	9928.1	8435.2	4543.3	1476.2	731.3	3.0	0.0
70°	2273.9	2634.3	4407.6	7198.7	6456.9	3125.9	711.7	263.9	1.5	0.0
72.5°	636.3	842.9	1961.8	4217.6	4060.8	1643.6	277.5	111.6	1.5	0.0
75°	377.0	324.2	562.4	1682.8	1976.9	577.5	128.2	86.0	1.5	0.0
77.5°	313.6	253.3	322.7	429.8	598.6	208.1	108.6	76.9	0.0	0.0
80°	294.0	224.7	279.0	300.1	295.5	173.4	107.1	76.9	0.0	0.0
82.5°	279.0	196.0	230.7	230.7	247.3	159.8	101.0	75.4	0.0	0.0
85°	209.6	137.2	153.8	199.0	177.9	113.1	73.9	60.3	0.0	0.0
87.5°	79.9	49.8	60.3	63.3	51.3	25.6	6.0	6.0	0.0	0.0
90°	1.5	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



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 CATALOG NUMBER: CST-CA8-330-760-U-T5N-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)