

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: P579513

Luminaire Tested: **CST-CA8-330-740-U-T5N-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579513
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-CA8-330-740-U-T5N-HSS-HM-EX90
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: 40358 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U2 - G4

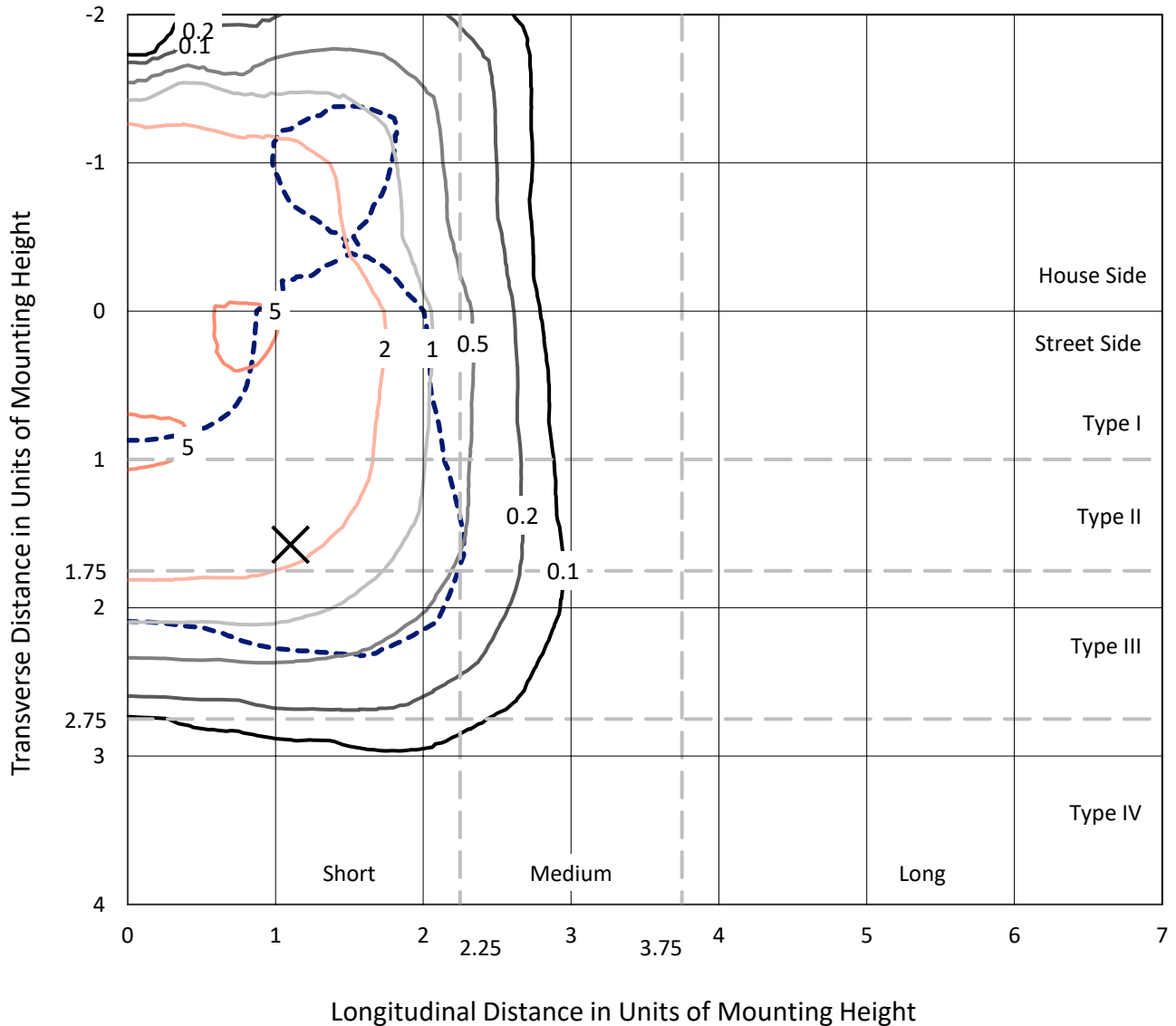
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

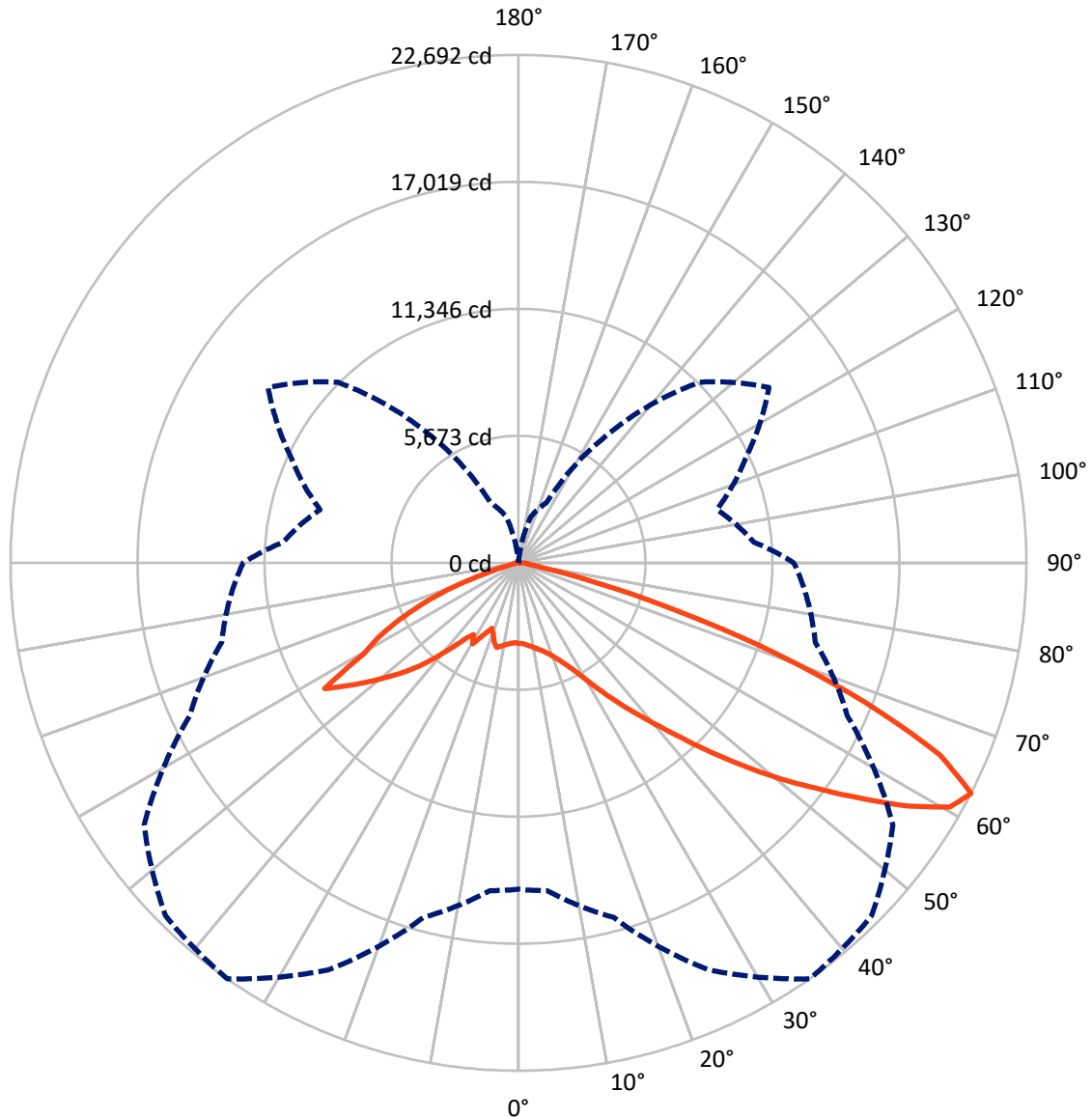
✕ Max cd
 - - - 1/2 Max cd



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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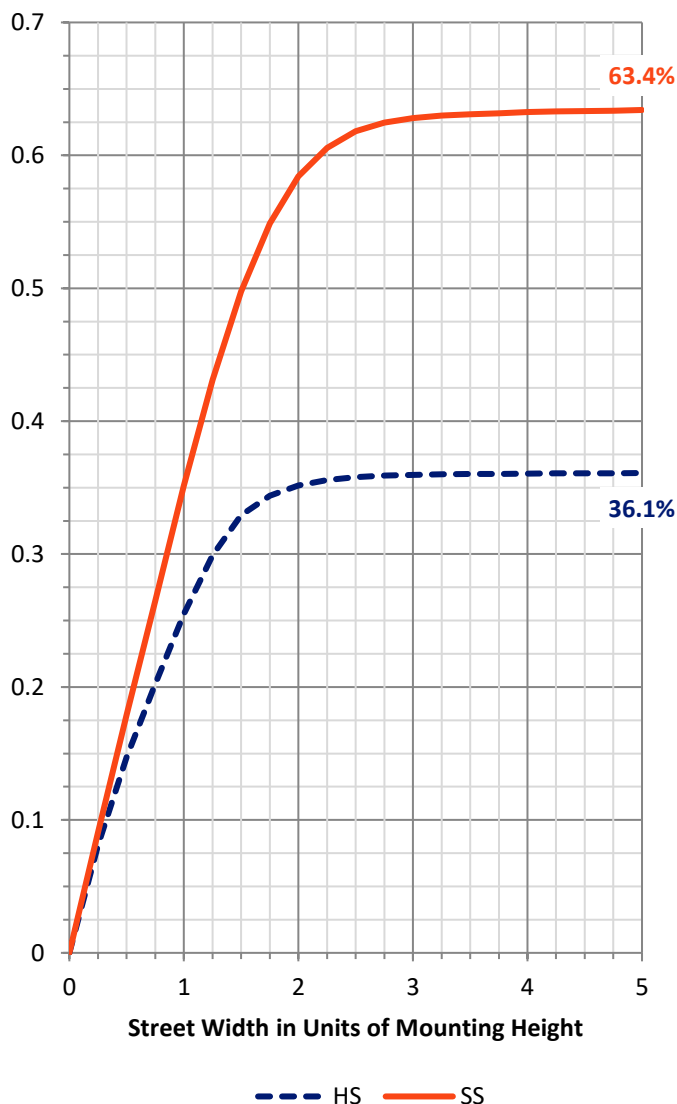
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14649.0	0.0	14649.0
	% Fixture	36.3	0.0	36.3
Street Side	Lumens	25689.9	19.1	25709.0
	% Fixture	63.7	0.0	63.7
Total	Lumens	40338.8	19.1	40358.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.0	0.9
10°-20°	1147.4	2.8
20°-30°	2207.4	5.5
30°-40°	4403.6	10.9
40°-50°	8040.7	19.9
50°-60°	12015.7	29.8
60°-70°	10068.0	24.9
70°-80°	1884.1	4.7
80°-90°	216.9	0.5
90°-100°	17.3	0.0
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°	40338.8	100.0
0°-180°	40358.0	100.0

Coefficient of Utilization

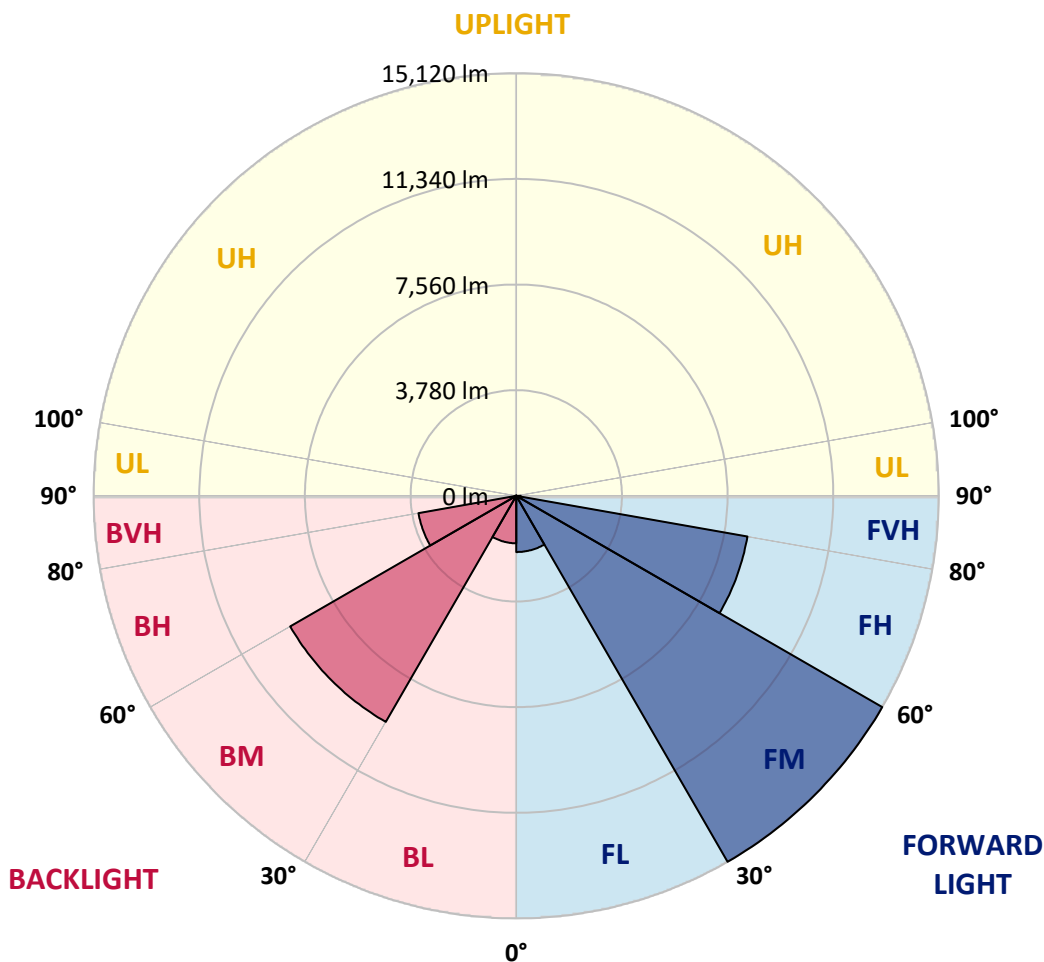


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2012.3	5.0			
FM (30°-60°)	15119.9	37.5			
FH (60°-80°)	8399.6	20.8			G4/12000
FVH (80°-90°)	157.9	0.4			G2/225
BL (0°-30°)	1697.5	4.2	B3/2500		
BM (30°-60°)	9340.0	23.1	B5		
BH (60°-80°)	3552.5	8.8	B4/5000		G4/5000
BVH (80°-90°)	58.9	0.1			G1/100
UL (90°-100°)	17.3	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°	3611.1	3611.1	3611.1	3611.1	3611.1	3611.1	3611.1	3611.1	3611.1	3611.1	3611.1
2.5°	3688.2	3658.0	3662.5	3683.7	3617.1	3644.4	3615.6	3642.9	3633.8	3645.9	3655.0
5°	3741.2	3703.4	3706.4	3730.6	3679.2	3701.9	3673.1	3691.3	3676.1	3692.8	3694.3
7.5°	3813.8	3782.0	3777.5	3801.7	3757.8	3777.5	3748.8	3757.8	3742.7	3762.4	3756.3
10°	3910.6	3881.9	3874.3	3891.0	3856.2	3866.8	3836.5	3848.6	3825.9	3848.6	3838.0
12.5°	4018.0	3980.2	3981.7	3999.9	3965.1	3972.7	3948.5	3962.1	3934.8	3959.0	3951.5
15°	4145.1	4090.7	4101.2	4120.9	4087.6	4110.3	4081.6	4101.2	4075.5	4101.2	4092.2
17.5°	4310.0	4248.0	4255.6	4287.3	4260.1	4296.4	4263.1	4287.3	4275.2	4291.9	4288.8
20°	4518.8	4477.9	4470.4	4509.7	4470.4	4515.8	4497.6	4540.0	4543.0	4559.6	4567.2
22.5°	4797.1	4769.9	4751.8	4779.0	4744.2	4776.0	4801.7	4874.3	4901.5	4945.4	4948.4
25°	5167.8	5166.3	5125.4	5126.9	5083.1	5125.4	5198.0	5311.5	5384.1	5440.1	5418.9
27.5°	5668.5	5677.6	5615.6	5591.4	5539.9	5603.5	5753.2	5893.9	6025.5	6104.2	6104.2
30°	6322.1	6331.1	6240.4	6192.0	6145.1	6255.5	6434.0	6617.1	6804.6	6918.1	6892.4
32.5°	7187.4	7158.6	7028.5	6940.8	6860.6	6987.7	7193.4	7400.7	7656.4	7819.7	7800.1
35°	8237.3	8132.9	8002.8	7839.4	7667.0	7766.8	7960.4	8220.6	8576.2	8821.2	8759.2
37.5°	9456.6	9353.7	9131.4	8850.0	8548.9	8561.0	8713.8	9164.6	9609.4	9809.1	9766.7
40°	10722.8	10642.7	10438.4	10076.9	9532.3	9406.7	9657.8	10200.9	10626.0	10877.2	10806.0
42.5°	12013.3	11931.6	11777.3	11414.2	10692.6	10390.0	10651.7	11243.3	11697.1	11943.7	11862.0
45°	13300.7	13206.9	13084.4	12763.6	12075.3	11632.0	11778.8	12321.9	12736.4	13016.3	12848.4
47.5°	14432.3	14370.2	14287.0	14156.9	13554.8	13064.7	13054.1	13412.6	13698.6	13883.1	13677.4
50°	15417.1	15373.2	15420.1	15392.9	15173.6	14727.3	14453.5	14429.2	14521.5	14656.2	14362.7
52.5°	16300.6	16223.4	16397.4	16613.8	16775.6	16684.9	15798.3	15300.6	15199.3	15244.7	14911.8
55°	17023.7	16987.4	17279.4	17822.5	18571.3	18771.0	17179.5	16147.8	15774.1	15749.9	15371.7
57.5°	17465.5	17516.9	18100.9	19135.6	20509.3	20572.8	18875.4	17054.0	16333.9	16073.7	15638.0
60°	16762.0	16960.2	17957.1	20091.7	22153.7	22193.0	20120.5	17220.4	15635.0	15052.5	14512.5
62.5°	14586.6	14704.6	16400.4	20059.9	22692.2	22308.0	20417.0	16215.9	13727.3	12798.4	12299.2
65°	10275.1	10495.9	12312.8	18047.9	20678.7	20727.1	18730.2	14020.8	10961.9	9934.7	9612.4
67.5°	6205.6	6417.4	8352.3	13028.4	16810.4	17353.5	15624.4	10615.4	7860.6	6562.6	6237.3
70°	2015.1	2245.0	3806.2	7679.1	12365.8	13668.3	11757.6	6909.0	4116.4	2883.4	2534.0
72.5°	765.5	835.1	1239.0	3353.9	7701.7	9125.3	7272.1	3465.9	1275.3	759.4	667.2
75°	497.7	508.3	579.4	1175.5	3714.0	5024.1	3505.2	1015.1	511.3	453.8	420.6
77.5°	428.1	435.7	465.9	585.5	1183.0	1921.3	1006.0	518.9	426.6	378.2	355.5
80°	403.9	406.9	426.6	496.2	553.7	641.4	484.1	434.2	372.2	355.5	338.9
82.5°	382.7	393.3	403.9	450.8	449.3	461.4	388.8	340.4	316.2	332.8	326.8
85°	357.0	363.1	370.6	402.4	366.1	310.1	299.5	234.5	228.4	243.6	228.4
87.5°	251.1	266.3	257.2	270.8	254.2	198.2	167.9	133.1	105.9	87.7	84.7
90°	102.9	104.4	98.3	90.8	80.2	66.6	52.9	33.3	15.1	7.6	3.0
92.5°	80.2	80.2	77.2	69.6	60.5	49.9	37.8	21.2	10.6	4.5	1.5
95°	49.9	51.4	48.4	43.9	37.8	30.3	22.7	12.1	7.6	3.0	1.5
97.5°	31.8	31.8	28.7	25.7	21.2	15.1	10.6	9.1	6.1	3.0	0.0
100°	18.2	18.2	16.6	13.6	10.6	7.6	7.6	6.1	4.5	1.5	0.0
102.5°	10.6	10.6	7.6	6.1	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°	3611.1	3611.1	3611.1	3611.1	3611.1	3611.1	3611.1	3611.1	3611.1	3611.1
2.5°	3648.9	3621.7	3626.2	3600.5	3596.0	3570.2	3621.7	3627.7	3612.6	3626.2
5°	3691.3	3658.0	3668.6	3639.8	3635.3	3600.5	3645.9	3642.9	3630.8	3644.4
7.5°	3754.8	3720.0	3726.1	3694.3	3688.2	3650.4	3692.8	3679.2	3667.1	3683.7
10°	3844.1	3804.7	3807.8	3766.9	3771.5	3721.5	3773.0	3748.8	3733.6	3756.3
12.5°	3951.5	3907.6	3909.1	3866.8	3865.2	3816.8	3862.2	3848.6	3825.9	3860.7
15°	4090.7	4040.7	4036.2	3980.2	3965.1	3910.6	3953.0	3927.3	3912.1	3962.1
17.5°	4285.8	4229.8	4213.2	4145.1	3862.2	3698.8	3925.8	4002.9	3909.1	3894.0
20°	4546.0	4499.1	4461.3	4358.4	3883.4	3373.6	2996.9	2999.9	3396.3	3579.3
22.5°	4898.5	4842.5	4771.4	4624.7	3562.7	3160.3	3161.8	3157.2	2709.5	2520.4
25°	5381.1	5313.0	5167.8	4338.8	3782.0	3409.9	3400.8	2957.6	2711.0	2724.6
27.5°	6033.1	5893.9	5043.7	4700.3	4172.3	3733.6	3515.8	2977.2	3007.5	3028.7
30°	6862.1	6302.4	5450.7	5246.4	4641.3	4163.3	3251.0	3325.2	3385.7	3399.3
32.5°	7712.3	6320.5	6101.2	5884.9	5219.2	3788.1	3664.0	3804.7	3868.3	3875.8
35°	7704.8	7095.1	6812.2	6568.6	5754.8	4052.8	4131.5	4347.8	4509.7	4502.1
37.5°	8154.1	7949.9	7612.5	7303.9	5179.9	4565.7	4706.4	4951.4	5148.1	5142.1
40°	9093.5	8857.5	8500.5	7853.0	5735.1	5152.7	5349.3	5612.5	5751.7	5759.3
42.5°	9981.6	9786.4	9421.8	7337.2	6429.5	5859.1	6037.7	6214.7	6300.9	6328.1
45°	10865.0	10725.9	9512.6	8108.7	7269.1	6570.2	6688.2	6721.4	6812.2	6801.6
47.5°	11582.1	11427.8	9146.5	9076.9	8287.2	7244.9	7235.8	7191.9	7225.2	7232.8
50°	12237.2	10377.9	9881.7	10113.2	9355.3	7933.2	7760.7	7671.5	7626.1	7606.4
52.5°	12754.6	10380.9	10568.5	11184.3	10561.0	8680.5	8309.9	8058.8	7055.8	7840.9
55°	13194.8	10809.1	11219.0	12329.5	11600.3	9462.7	8806.1	8358.3	4709.4	3776.0
57.5°	13447.4	11134.3	11863.5	13402.0	12508.0	10332.5	8107.2	7010.4	2662.6	2659.5
60°	12471.7	10550.4	11845.4	13964.8	12246.3	8014.9	3301.0	2762.4	503.8	517.4
62.5°	10557.9	9178.3	11234.2	13656.2	11405.1	7051.2	2960.6	2127.0	16.6	13.6
65°	8179.8	7322.0	9459.6	12011.8	10376.4	5883.3	2207.2	1532.5	4.5	0.0
67.5°	5350.8	5160.2	6980.1	9960.4	8462.7	4558.1	1481.0	733.7	3.0	0.0
70°	2281.3	2642.9	4422.0	7222.2	6477.9	3136.1	714.0	264.7	1.5	0.0
72.5°	638.4	845.7	1968.2	4231.3	4074.0	1649.0	278.4	111.9	1.5	0.0
75°	378.2	325.3	564.3	1688.3	1983.3	579.4	128.6	86.2	1.5	0.0
77.5°	314.7	254.2	323.7	431.2	600.6	208.8	108.9	77.2	0.0	0.0
80°	295.0	225.4	279.9	301.1	296.5	174.0	107.4	77.2	0.0	0.0
82.5°	279.9	196.7	231.5	231.5	248.1	160.4	101.4	75.6	0.0	0.0
85°	210.3	137.7	154.3	199.7	178.5	113.5	74.1	60.5	0.0	0.0
87.5°	80.2	49.9	60.5	63.5	51.4	25.7	6.1	6.1	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



REPORT NUMBER: P579513
 CATALOG NUMBER: CST-CA8-330-740-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)