

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: P579603

Luminaire Tested: **CST-CA8-230-760-U-T5N-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579603
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-CA8-230-760-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: 29459 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U2 - G4

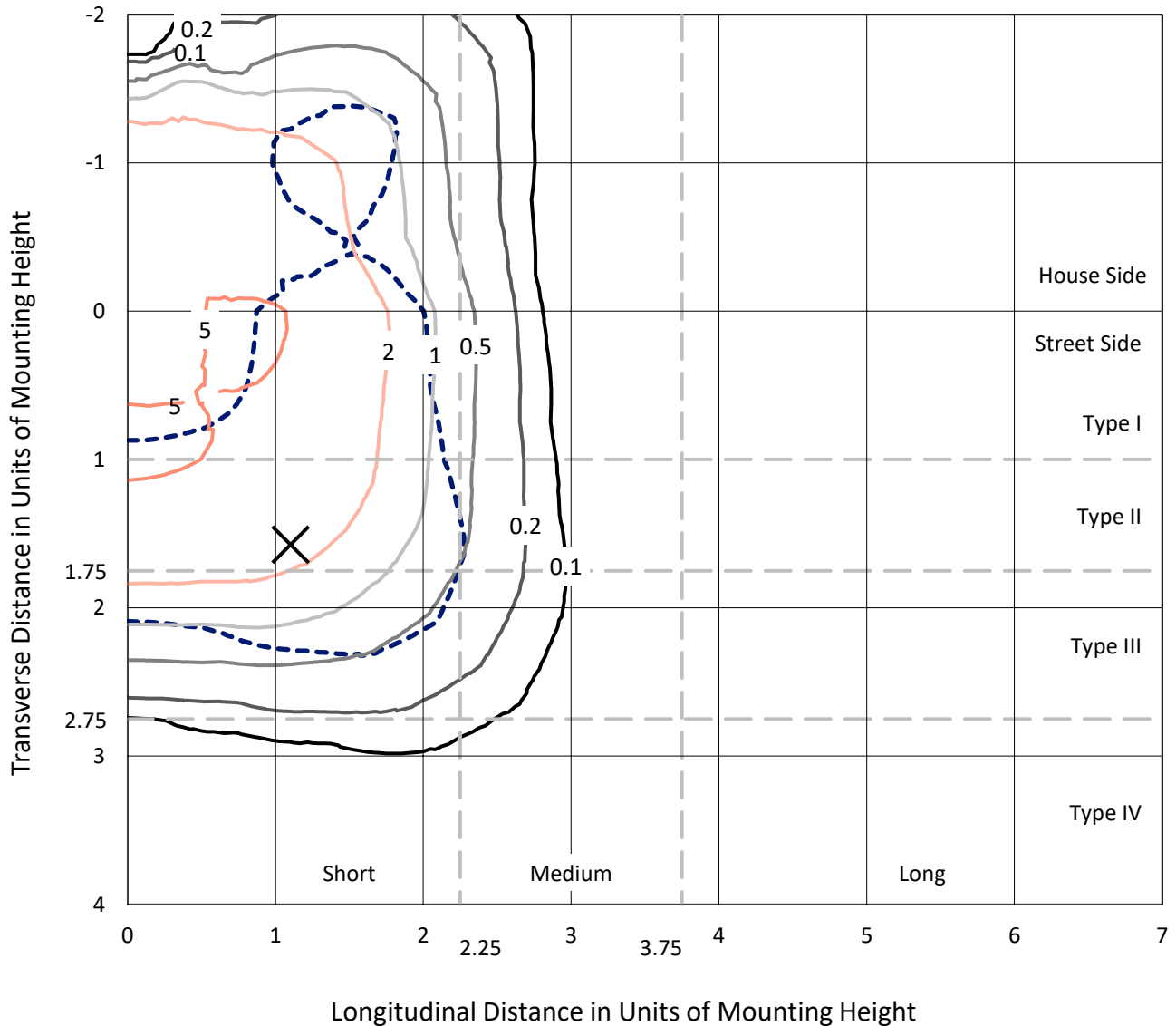
Input Watts (W): 228.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

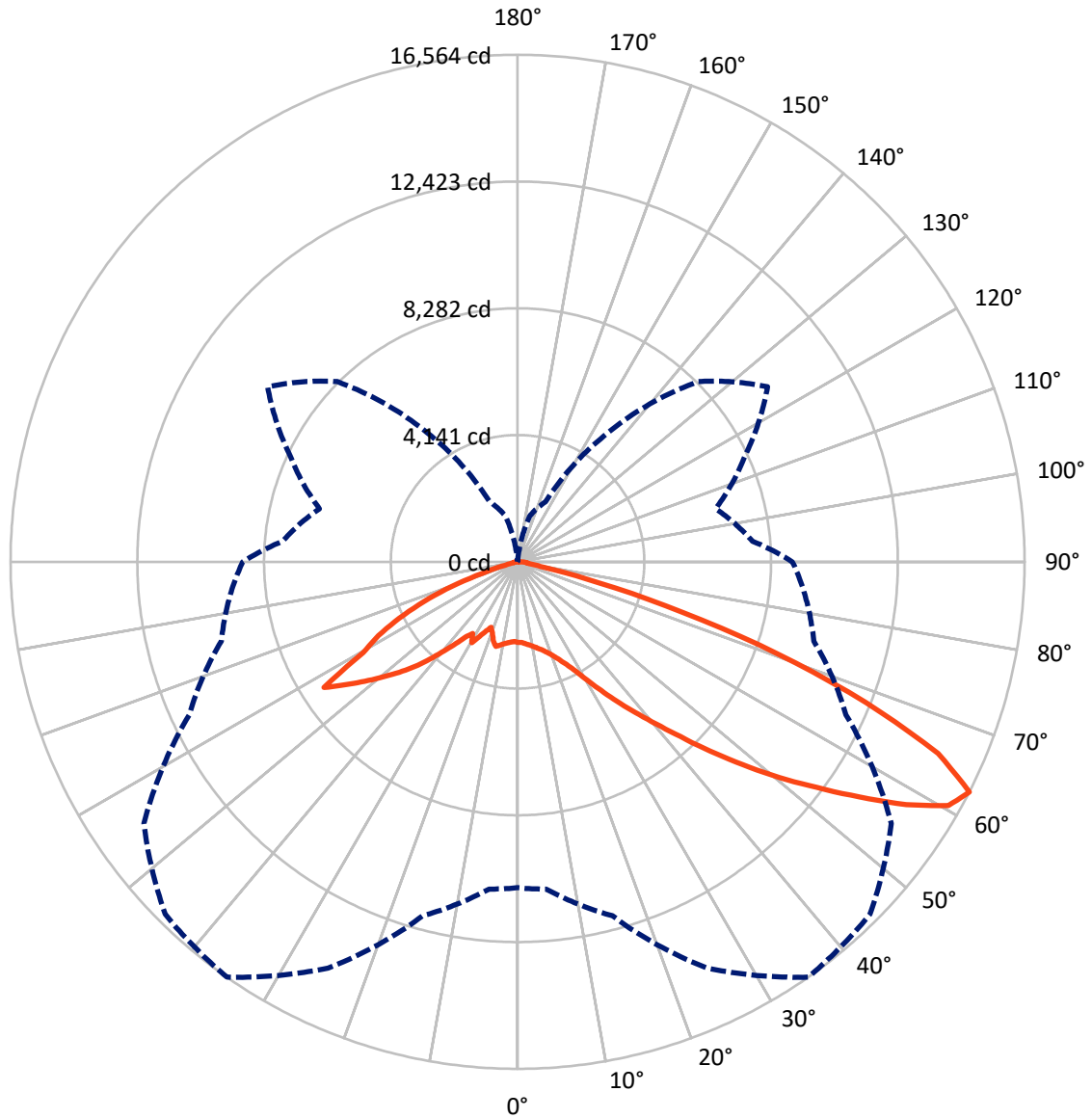
✕ Max cd
 - - - 1/2 Max cd



Based on 25 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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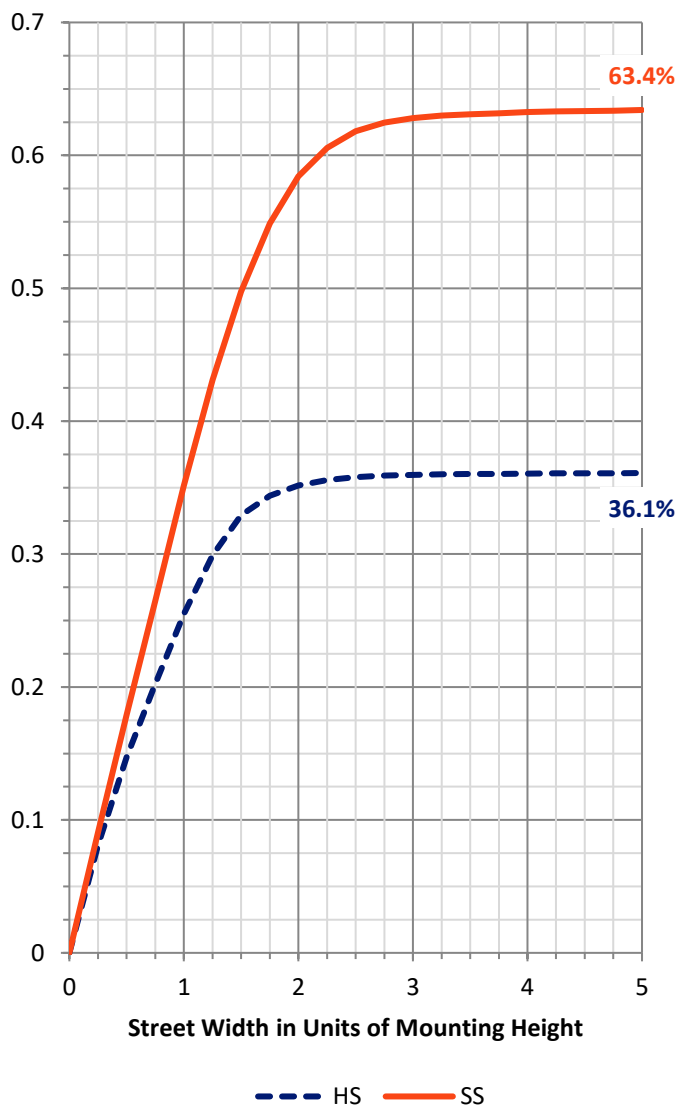
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10692.9	0.0	10692.9
	% Fixture	36.3	0.0	36.3
Street Side	Lumens	18752.1	13.9	18766.1
	% Fixture	63.7	0.0	63.7
Total	Lumens	29445.0	14.0	29459.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.1	0.9
10°-20°	837.5	2.8
20°-30°	1611.3	5.5
30°-40°	3214.4	10.9
40°-50°	5869.3	19.9
50°-60°	8770.7	29.8
60°-70°	7349.1	24.9
70°-80°	1375.3	4.7
80°-90°	158.3	0.5
90°-100°	12.6	0.0
100°-110°	1.4	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°	29445.0	100.0
0°-180°	29459.0	100.0

Coefficient of Utilization

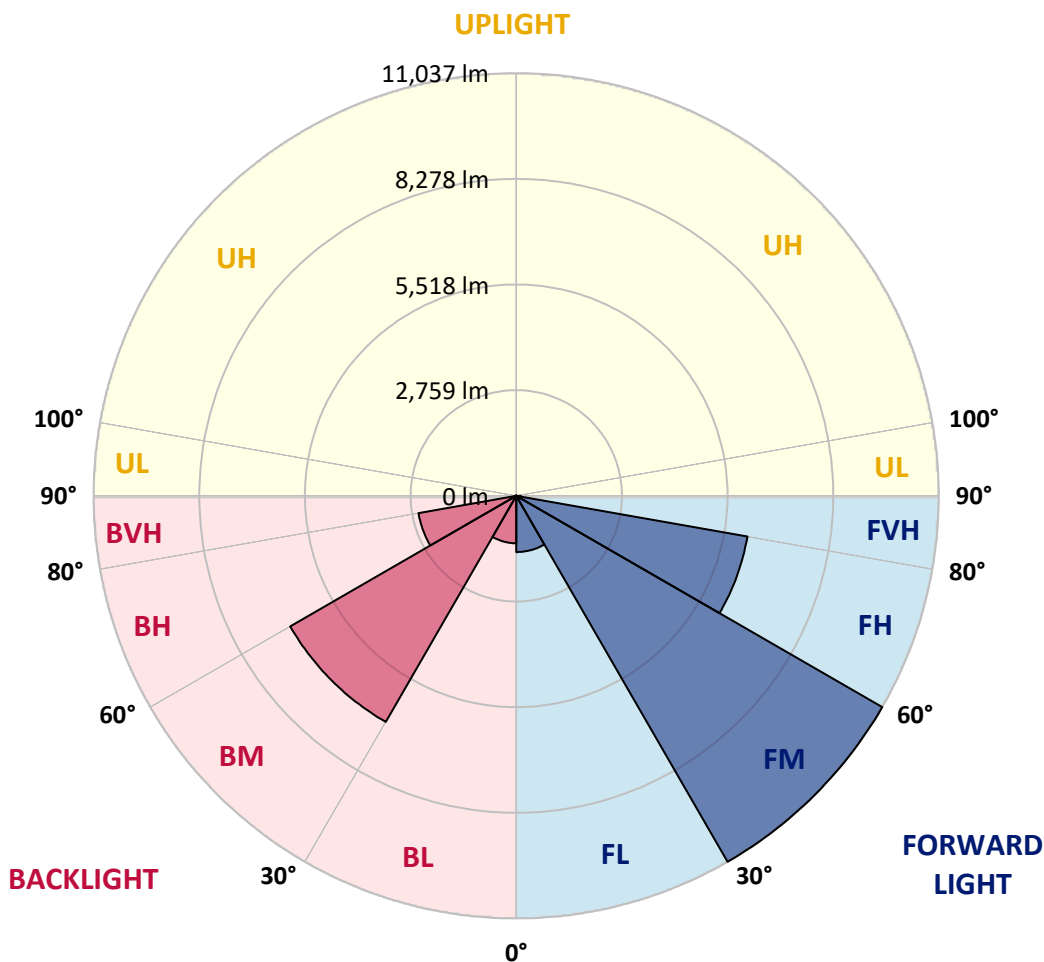


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1468.9	5.0			
FM	(30°-60°)	11036.7	37.5			
FH	(60°-80°)	6131.3	20.8			G3/7500
FVH	(80°-90°)	115.3	0.4			G2/225
BL	(0°-30°)	1239.1	4.2	B3/2500		
BM	(30°-60°)	6817.7	23.1	B4/8500		
BH	(60°-80°)	2593.1	8.8	B4/5000		G4/5000
BVH	(80°-90°)	43.0	0.1			G1/100
UL	(90°-100°)	12.6	0.0		U2/50	
UH	(100°-180°)	1.4	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°	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9
2.5°	2692.2	2670.1	2673.4	2688.9	2640.3	2660.2	2639.2	2659.1	2652.5	2661.3	2667.9
5°	2730.9	2703.2	2705.5	2723.1	2685.6	2702.1	2681.2	2694.4	2683.4	2695.5	2696.6
7.5°	2783.9	2760.7	2757.4	2775.0	2743.0	2757.4	2736.4	2743.0	2732.0	2746.3	2741.9
10°	2854.5	2833.6	2828.0	2840.2	2814.8	2822.5	2800.4	2809.3	2792.7	2809.3	2801.5
12.5°	2932.9	2905.3	2906.4	2919.7	2894.3	2899.8	2882.1	2892.1	2872.2	2889.9	2884.3
15°	3025.7	2985.9	2993.7	3008.0	2983.7	3000.3	2979.3	2993.7	2974.9	2993.7	2987.0
17.5°	3146.1	3100.8	3106.3	3129.5	3109.6	3136.1	3111.8	3129.5	3120.7	3132.8	3130.6
20°	3298.4	3268.6	3263.1	3291.8	3263.1	3296.2	3283.0	3313.9	3316.1	3328.3	3333.8
22.5°	3501.6	3481.8	3468.5	3488.4	3463.0	3486.2	3504.9	3558.0	3577.8	3609.9	3612.1
25°	3772.2	3771.1	3741.3	3742.4	3710.3	3741.3	3794.3	3877.1	3930.1	3970.9	3955.5
27.5°	4137.7	4144.3	4099.0	4081.4	4043.8	4090.2	4199.5	4302.2	4398.3	4455.7	4455.7
30°	4614.7	4621.4	4555.1	4519.8	4485.5	4566.1	4696.5	4830.1	4967.0	5049.8	5031.0
32.5°	5246.4	5225.4	5130.4	5066.4	5007.9	5100.6	5250.8	5402.1	5588.7	5708.0	5693.6
35°	6012.7	5936.5	5841.6	5722.3	5596.4	5669.3	5810.7	6000.6	6260.1	6439.0	6393.7
37.5°	6902.8	6827.7	6665.4	6460.0	6240.2	6249.1	6360.6	6689.7	7014.3	7160.1	7129.2
40°	7827.1	7768.5	7619.5	7355.5	6958.0	6866.3	7049.6	7446.1	7756.4	7939.7	7887.8
42.5°	8769.0	8709.4	8596.7	8331.7	7805.0	7584.1	7775.2	8206.9	8538.2	8718.2	8658.6
45°	9708.7	9640.3	9550.8	9316.7	8814.3	8490.7	8597.8	8994.3	9296.8	9501.1	9378.6
47.5°	10534.7	10489.4	10428.7	10333.7	9894.2	9536.5	9528.7	9790.4	9999.2	10133.9	9983.7
50°	11253.6	11221.6	11255.8	11235.9	11075.8	10750.1	10550.2	10532.5	10599.9	10698.2	10483.9
52.5°	11898.5	11842.2	11969.2	12127.1	12245.2	12179.0	11531.9	11168.6	11094.6	11127.7	10884.8
55°	12426.3	12399.8	12613.0	13009.4	13556.0	13701.8	12540.1	11787.0	11514.2	11496.5	11220.5
57.5°	12748.8	12786.3	13212.6	13967.9	14970.6	15016.9	13778.0	12448.4	11922.8	11732.9	11414.8
60°	12235.3	12380.0	13107.7	14665.8	16170.9	16199.6	14686.8	12569.9	11412.6	10987.5	10593.2
62.5°	10647.4	10733.5	11971.4	14642.6	16564.0	16283.5	14903.2	11836.7	10020.1	9342.1	8977.7
65°	7500.2	7661.4	8987.6	13173.9	15094.2	15129.6	13671.9	10234.4	8001.5	7251.7	7016.5
67.5°	4529.7	4684.3	6096.7	9510.0	12270.6	12667.1	11404.9	7748.7	5737.8	4790.3	4552.9
70°	1470.9	1638.7	2778.3	5605.3	9026.3	9977.1	8582.4	5043.2	3004.7	2104.7	1849.6
72.5°	558.8	609.6	904.4	2448.2	5621.8	6660.9	5308.2	2529.9	930.9	554.3	487.0
75°	363.3	371.0	422.9	858.0	2711.0	3667.3	2558.6	741.0	373.2	331.3	307.0
77.5°	312.5	318.0	340.1	427.4	863.5	1402.4	734.3	378.8	311.4	276.1	259.5
80°	294.8	297.0	311.4	362.2	404.2	468.2	353.4	316.9	271.7	259.5	247.4
82.5°	279.4	287.1	294.8	329.1	328.0	336.8	283.8	248.5	230.8	242.9	238.5
85°	260.6	265.0	270.5	293.7	267.2	226.4	218.6	171.2	166.7	177.8	166.7
87.5°	183.3	194.4	187.7	197.7	185.5	144.7	122.6	97.2	77.3	64.0	61.8
90°	75.1	76.2	71.8	66.3	58.5	48.6	38.6	24.3	11.0	5.5	2.2
92.5°	58.5	58.5	56.3	50.8	44.2	36.4	27.6	15.5	7.7	3.3	1.1
95°	36.4	37.5	35.3	32.0	27.6	22.1	16.6	8.8	5.5	2.2	1.1
97.5°	23.2	23.2	21.0	18.8	15.5	11.0	7.7	6.6	4.4	2.2	0.0
100°	13.3	13.3	12.1	9.9	7.7	5.5	5.5	4.4	3.3	1.1	0.0
102.5°	7.7	7.7	5.5	4.4	3.3	3.3	3.3	3.3	2.2	1.1	0.0
105°	3.3	3.3	2.2	2.2	1.1	1.1	2.2	2.2	2.2	1.1	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2	2.2	1.1	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2	1.1	1.1



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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°	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9
2.5°	2663.5	2643.6	2646.9	2628.2	2624.8	2606.1	2643.6	2648.0	2637.0	2646.9
5°	2694.4	2670.1	2677.9	2656.9	2653.6	2628.2	2661.3	2659.1	2650.2	2660.2
7.5°	2740.8	2715.4	2719.8	2696.6	2692.2	2664.6	2695.5	2685.6	2676.7	2688.9
10°	2805.9	2777.2	2779.4	2749.6	2752.9	2716.5	2754.0	2736.4	2725.3	2741.9
12.5°	2884.3	2852.3	2853.4	2822.5	2821.4	2786.1	2819.2	2809.3	2792.7	2818.1
15°	2985.9	2949.5	2946.2	2905.3	2894.3	2854.5	2885.5	2866.7	2855.6	2892.1
17.5°	3128.4	3087.5	3075.4	3025.7	2819.2	2699.9	2865.6	2921.9	2853.4	2842.4
20°	3318.3	3284.1	3256.5	3181.4	2834.7	2462.5	2187.6	2189.8	2479.1	2612.7
22.5°	3575.6	3534.8	3482.9	3375.7	2600.6	2306.8	2307.9	2304.6	1977.7	1839.7
25°	3927.9	3878.2	3772.2	3167.0	2760.7	2489.0	2482.4	2158.8	1978.8	1988.8
27.5°	4403.8	4302.2	3681.6	3431.0	3045.6	2725.3	2566.3	2173.2	2195.3	2210.7
30°	5009.0	4600.4	3978.7	3829.6	3387.9	3038.9	2373.1	2427.2	2471.4	2481.3
32.5°	5629.6	4613.6	4453.5	4295.6	3809.7	2765.1	2674.5	2777.2	2823.6	2829.1
35°	5624.0	5179.0	4972.5	4794.7	4200.6	2958.3	3015.8	3173.7	3291.8	3286.3
37.5°	5952.0	5802.9	5556.7	5331.4	3781.0	3332.7	3435.4	3614.3	3757.8	3753.4
40°	6637.8	6465.5	6204.9	5732.3	4186.3	3761.1	3904.7	4096.8	4198.4	4203.9
42.5°	7286.0	7143.5	6877.4	5355.7	4693.1	4276.8	4407.1	4536.3	4599.3	4619.2
45°	7930.9	7829.3	6943.6	5918.9	5306.0	4795.8	4882.0	4906.3	4972.5	4964.8
47.5°	8454.3	8341.6	6676.4	6625.6	6049.2	5288.3	5281.7	5249.7	5274.0	5279.5
50°	8932.4	7575.3	7213.1	7382.0	6828.8	5790.8	5664.9	5599.7	5566.6	5552.3
52.5°	9310.1	7577.5	7714.4	8163.9	7708.9	6336.3	6065.7	5882.4	5150.3	5723.4
55°	9631.4	7890.0	8189.3	8999.8	8467.5	6907.2	6427.9	6101.1	3437.6	2756.3
57.5°	9815.8	8127.4	8659.7	9782.7	9130.1	7542.2	5917.8	5117.2	1943.5	1941.3
60°	9103.6	7701.2	8646.4	10193.5	8939.1	5850.4	2409.5	2016.4	367.7	377.7
62.5°	7706.7	6699.6	8200.3	9968.2	8325.1	5147.0	2161.1	1552.6	12.1	9.9
65°	5970.8	5344.7	6905.0	8767.9	7574.2	4294.5	1611.1	1118.6	3.3	0.0
67.5°	3905.8	3766.7	5095.1	7270.5	6177.3	3327.2	1081.1	535.6	2.2	0.0
70°	1665.2	1929.2	3227.8	5271.8	4728.5	2289.1	521.2	193.2	1.1	0.0
72.5°	466.0	617.3	1436.7	3088.6	2973.8	1203.7	203.2	81.7	1.1	0.0
75°	276.1	237.4	411.9	1232.4	1447.7	422.9	93.9	62.9	1.1	0.0
77.5°	229.7	185.5	236.3	314.7	438.4	152.4	79.5	56.3	0.0	0.0
80°	215.3	164.5	204.3	219.7	216.4	127.0	78.4	56.3	0.0	0.0
82.5°	204.3	143.6	169.0	169.0	181.1	117.1	74.0	55.2	0.0	0.0
85°	153.5	100.5	112.6	145.8	130.3	82.8	54.1	44.2	0.0	0.0
87.5°	58.5	36.4	44.2	46.4	37.5	18.8	4.4	4.4	0.0	0.0
90°	1.1	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: P579603
 CATALOG NUMBER: CST-CA8-230-760-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)