

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: P721907

Luminaire Tested: **CST-CA8-430-730-U-T1**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-430-730-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66534 lumens
Efficiency: N/A
Efficacy: 153.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

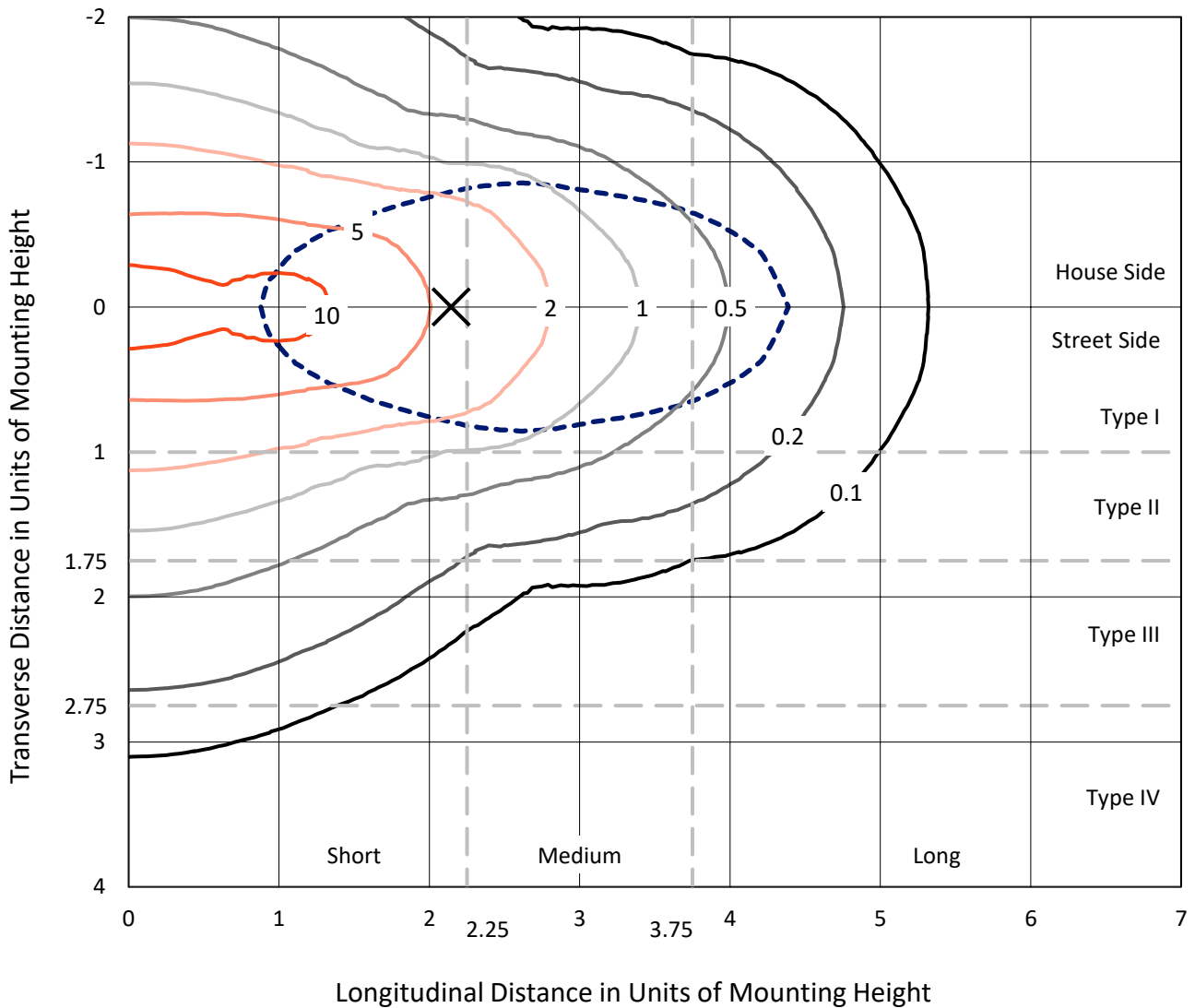
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

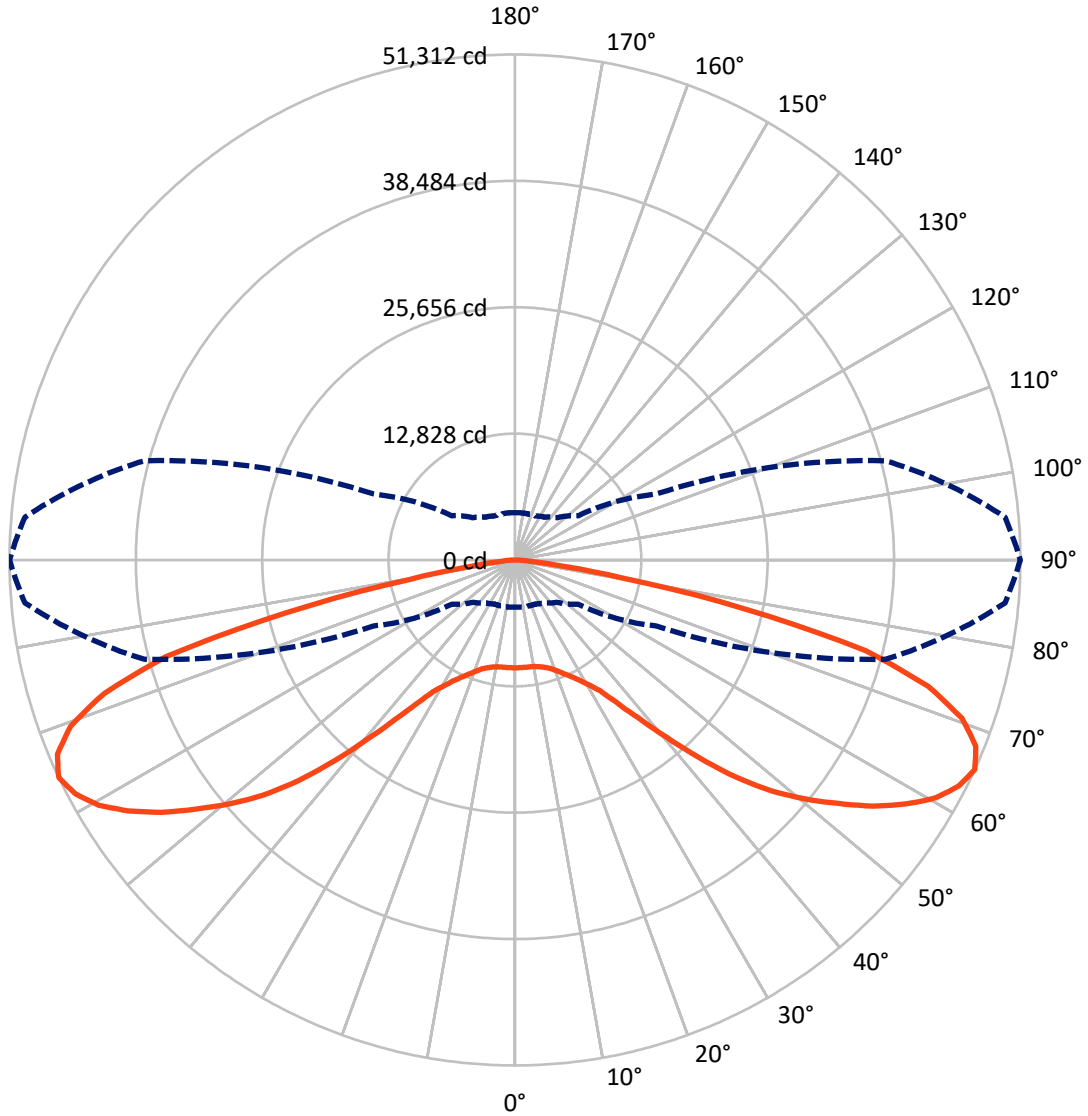
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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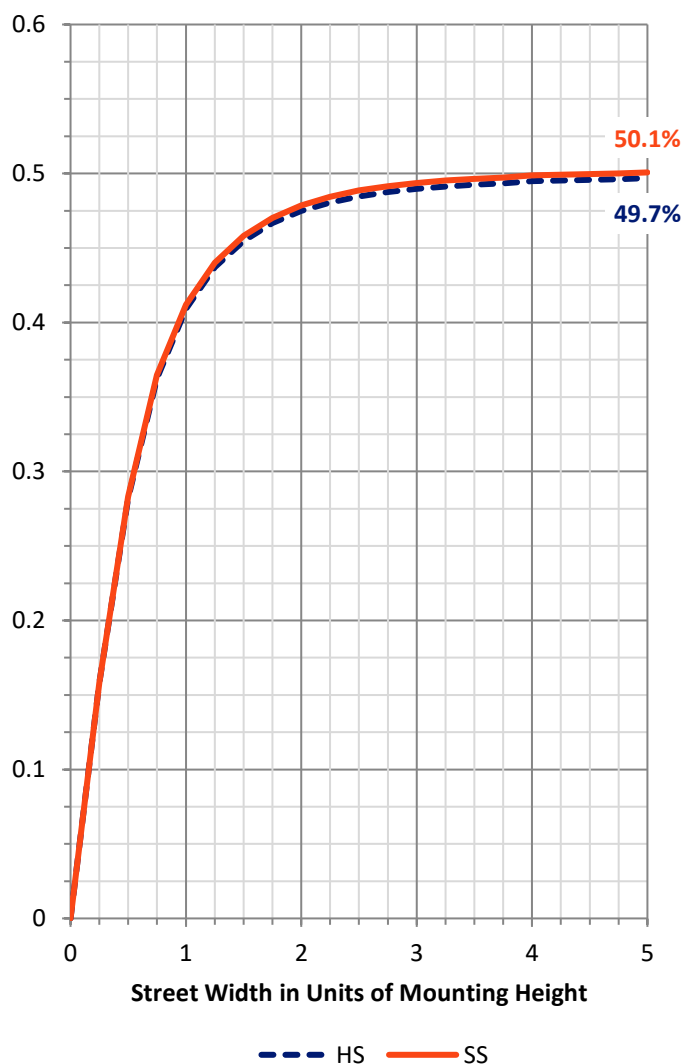
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	33267.0	0.0	33267.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33267.0	0.0	33267.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	66534.0	0.0	66534.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1040.2	1.6
10°-20°	3069.6	4.6
20°-30°	5056.4	7.6
30°-40°	7408.3	11.1
40°-50°	10953.9	16.5
50°-60°	14368.7	21.6
60°-70°	14990.7	22.5
70°-80°	8618.8	13.0
80°-90°	1027.4	1.5
90°-100°	0.0	0.0
100°-110°	0.0	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°	66534.0	100.0
0°-180°	66534.0	100.0

Coefficient of Utilization



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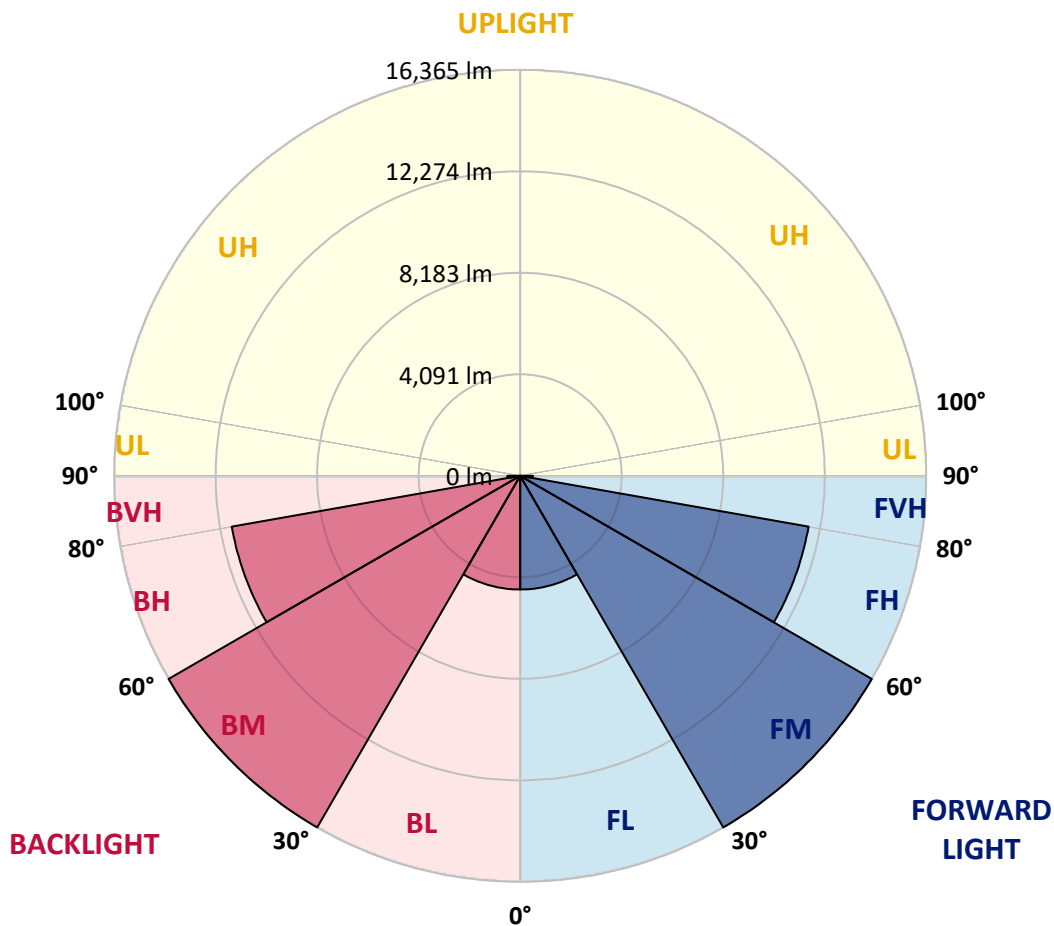
CATALOG NUMBER: CST-CA8-430-730-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4583.1	6.9			
FM (30°-60°)	16365.5	24.6			
FH (60°-80°)	11804.7	17.7			G4/12000
FVH (80°-90°)	513.7	0.8			G4/750
BL (0°-30°)	4583.1	6.9	B4/5000		
BM (30°-60°)	16365.5	24.6	B5		
BH (60°-80°)	11804.7	17.7	B5		G5
BVH (80°-90°)	513.7	0.8			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	10961.3	10961.3	10961.3	10961.3	10961.3	10961.3	10961.3	10961.3	10961.3	10961.3	10961.3
2.5°	10958.7	10950.9	10948.3	10944.4	10950.9	10956.1	10969.1	10980.8	10978.2	10975.6	10978.2
5°	10897.6	10901.5	10902.8	10904.1	10909.3	10913.2	10931.4	10949.6	10947.0	10944.4	10957.4
7.5°	10811.7	10811.7	10809.1	10806.5	10816.9	10826.0	10844.2	10862.4	10876.8	10889.8	10910.6
10°	10686.9	10681.7	10680.4	10679.1	10690.8	10701.2	10735.0	10768.8	10797.4	10824.7	10859.8
12.5°	10534.7	10533.4	10536.0	10538.6	10563.3	10588.1	10645.3	10702.5	10759.7	10816.9	10867.6
15°	10354.0	10338.4	10351.4	10363.1	10403.4	10442.4	10552.9	10663.5	10750.6	10836.4	10935.3
17.5°	10078.3	10062.7	10082.2	10100.4	10181.0	10261.7	10417.7	10572.5	10736.3	10900.2	11041.9
20°	9660.9	9660.9	9710.3	9759.7	9896.2	10032.8	10247.3	10460.6	10681.7	10902.8	11108.2
22.5°	9216.1	9203.1	9308.4	9413.8	9577.6	9740.2	10010.7	10281.2	10573.8	10865.0	11147.2
25°	8714.1	8736.3	8868.9	9000.2	9230.4	9459.3	9792.2	10123.8	10491.8	10859.8	11251.3
27.5°	8290.2	8294.1	8454.1	8614.0	8902.7	9190.1	9594.5	9999.0	10447.6	10896.3	11389.1
30°	7852.0	7923.5	8092.5	8260.3	8582.8	8905.3	9394.3	9881.9	10413.8	10945.7	11546.5
32.5°	7515.2	7532.1	7723.2	7913.1	8249.9	8586.7	9155.0	9723.3	10361.8	11000.3	11731.1
35°	7197.9	7225.2	7403.3	7581.5	7932.6	8282.4	8905.3	9526.9	10290.3	11052.3	11931.4
37.5°	6915.7	6949.5	7118.5	7287.6	7625.7	7963.8	8624.4	9285.0	10179.7	11074.4	12151.2
40°	6708.9	6737.5	6880.5	7023.6	7329.2	7633.5	8325.3	9015.8	10025.0	11034.1	12324.1
42.5°	6559.3	6572.3	6688.1	6803.8	7076.9	7350.0	8035.3	8719.3	9823.4	10927.5	12458.1
45°	6356.5	6385.1	6499.5	6612.7	6858.4	7102.9	7729.7	8356.5	9524.3	10690.8	12459.4
47.5°	6205.6	6223.8	6331.8	6438.4	6667.3	6896.2	7459.2	8022.3	9186.2	10348.8	12318.9
50°	6095.1	6086.0	6186.1	6285.0	6478.7	6671.2	7173.1	7673.8	8767.5	9861.1	11967.8
52.5°	5937.7	5948.1	6028.8	6109.4	6277.1	6443.6	6893.6	7342.2	8303.2	9262.9	11398.2
55°	5727.1	5775.2	5842.8	5909.1	6056.1	6203.0	6607.5	7011.9	7839.0	8664.7	10664.8
57.5°	5520.3	5555.4	5612.6	5669.9	5785.6	5900.0	6281.1	6662.1	7350.0	8037.9	9738.9
60°	5351.2	5360.4	5396.8	5431.9	5520.3	5608.7	5923.4	6238.1	6838.9	7438.4	8815.6
62.5°	5132.8	5135.4	5160.1	5184.8	5239.4	5292.7	5539.8	5785.6	6298.0	6810.3	7897.5
65°	4790.8	4811.6	4835.0	4857.1	4893.5	4928.6	5117.2	5305.7	5689.4	6073.0	6949.5
67.5°	4444.9	4426.6	4454.0	4481.3	4486.5	4491.7	4634.7	4777.8	5092.5	5407.2	6112.0
70°	3881.8	3896.1	3893.5	3889.6	3867.5	3844.1	3944.2	4044.3	4210.8	4375.9	4885.7
72.5°	2976.7	2957.2	2907.7	2857.0	2833.6	2810.2	2927.3	3043.0	3165.2	3287.5	3655.5
75°	1819.3	1875.2	1977.9	2079.4	2118.4	2157.4	2150.9	2143.1	2132.7	2122.3	2581.3
77.5°	1232.8	1262.7	1286.1	1308.2	1365.4	1421.4	1486.4	1551.4	1550.1	1548.8	1837.5
80°	784.2	760.7	771.2	781.6	814.1	846.6	945.4	1042.9	1070.2	1096.3	1295.2
82.5°	491.6	495.5	508.5	520.2	483.8	447.3	524.1	599.5	664.5	728.2	820.6
85°	318.6	361.5	355.0	348.5	305.6	262.7	330.3	397.9	429.1	459.0	494.2
87.5°	102.7	119.6	123.5	126.1	126.1	124.8	139.1	153.5	158.7	162.6	175.6
90°	0.0	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	0.0
95°	0.0	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	0.0
100°	0.0	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	0.0
105°	0.0	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	0.0
110°	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):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	10961.3	10961.3	10961.3	10961.3	10961.3	10961.3	10961.3	10961.3
2.5°	10979.5	10966.5	10953.5	10949.6	10945.7	10943.1	10940.5	10937.9
5°	10969.1	10966.5	10963.9	10953.5	10943.1	10941.8	10940.5	10944.4
7.5°	10931.4	10931.4	10931.4	10943.1	10954.8	10949.6	10943.1	10950.9
10°	10893.7	10924.9	10956.1	10965.2	10974.3	10980.8	10987.3	10993.8
12.5°	10918.4	10971.7	11023.7	11053.6	11083.5	11099.1	11113.4	11117.3
15°	11034.1	11101.7	11169.3	11209.7	11248.7	11274.7	11300.7	11307.2
17.5°	11183.7	11287.7	11390.4	11448.9	11507.5	11537.4	11566.0	11556.9
20°	11312.4	11455.4	11598.5	11723.3	11848.2	11917.1	11984.7	11992.5
22.5°	11428.1	11668.7	11909.3	12070.5	12230.5	12352.7	12475.0	12488.0
25°	11641.4	11956.1	12270.8	12528.3	12785.8	12897.6	13008.1	13073.2
27.5°	11880.7	12302.0	12723.4	13068.0	13412.6	13582.9	13752.0	13761.1
30°	12146.0	12680.4	13213.6	13676.6	14138.2	14346.3	14553.1	14662.3
32.5°	12460.7	13139.5	13817.0	14425.6	15034.2	15350.2	15666.2	15776.8
35°	12809.2	13689.6	14568.7	15407.4	16244.9	16849.6	17454.3	17745.6
37.5°	13227.9	14348.9	15469.9	16730.0	17990.1	19021.3	20051.2	20345.1
40°	13614.1	15056.3	16497.2	18247.6	19997.9	21633.9	23268.5	23587.1
42.5°	13988.7	15733.8	17479.0	19866.6	22254.2	24444.1	26634.0	27462.4
45°	14226.6	16337.2	18446.5	21594.9	24743.2	27749.8	30755.0	31450.8
47.5°	14287.8	16767.7	19247.6	23147.6	27047.5	30586.0	34123.1	35016.5
50°	14074.5	16991.3	19908.2	25055.3	30201.1	33804.5	37406.7	38140.2
52.5°	13533.5	16919.8	20306.1	26533.9	32761.6	36575.7	40389.9	41055.7
55°	12664.8	16485.5	20306.1	27751.1	35194.7	39150.6	43105.2	44116.9
57.5°	11439.8	15655.8	19871.8	28563.8	37255.9	41552.5	45849.1	46758.1
60°	10192.7	14668.8	19143.6	29012.5	38881.4	43432.9	47984.4	49045.5
62.5°	8983.3	13328.1	17671.5	28541.7	39412.0	44217.0	49020.8	50547.5
65°	7826.0	11839.1	15852.2	27393.4	38933.4	44439.4	49944.1	51312.2
67.5°	6816.8	10594.6	14372.3	25468.8	36565.3	42659.1	48751.6	50456.5
70°	5395.5	8871.5	12347.5	22056.5	31765.5	38902.2	46038.9	48143.0
72.5°	4023.5	6971.6	9918.3	17350.3	24782.2	32989.2	41194.9	43842.5
75°	3039.1	5568.4	8097.7	13714.3	19330.8	26279.0	33227.1	36770.8
77.5°	2126.2	4023.5	5919.5	10109.5	14299.5	18146.1	21992.8	23881.0
80°	1492.9	2544.9	3595.7	5611.3	7625.7	9331.8	11036.7	10901.5
82.5°	911.6	1353.7	1794.6	2434.4	3074.2	3486.4	3898.7	3880.5
85°	529.3	643.7	756.8	937.6	1118.4	1322.5	1526.7	1357.6
87.5°	187.3	187.3	187.3	214.6	241.9	332.9	423.9	447.3
90°	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
95°	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
100°	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
105°	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
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P721907
 CATALOG NUMBER: CST-CA8-430-730-U-T1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	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
117.5°	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
122.5°	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
127.5°	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
132.5°	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
137.5°	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
142.5°	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
147.5°	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
152.5°	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
157.5°	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
162.5°	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
167.5°	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
172.5°	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
177.5°	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

(END OF REPORT)