

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: P721927

Luminaire Tested: **CST-CA8-430-750-U-T1**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721927
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-CA8-430-750-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69004 lumens
Efficiency: N/A
Efficacy: 159.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

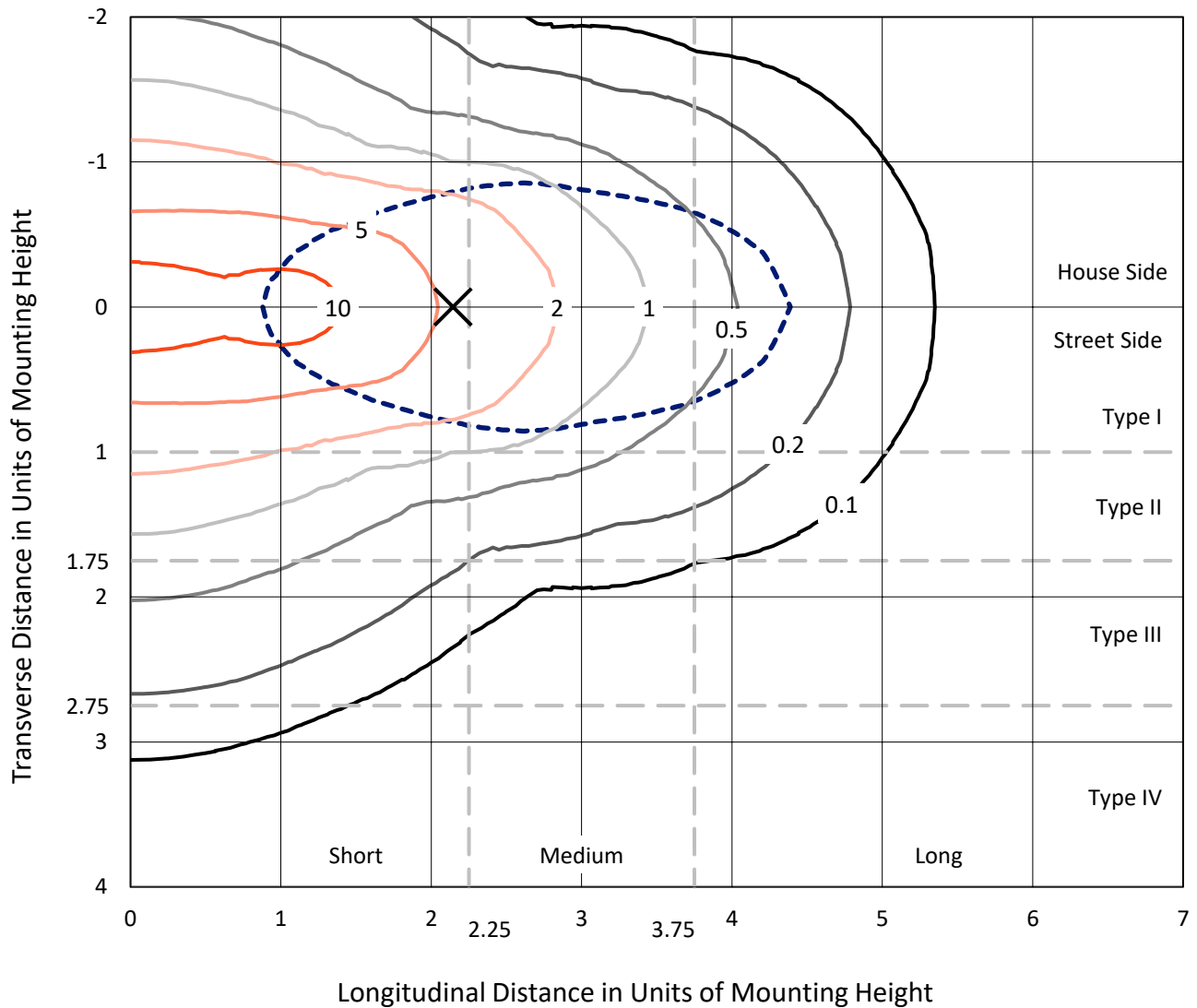
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

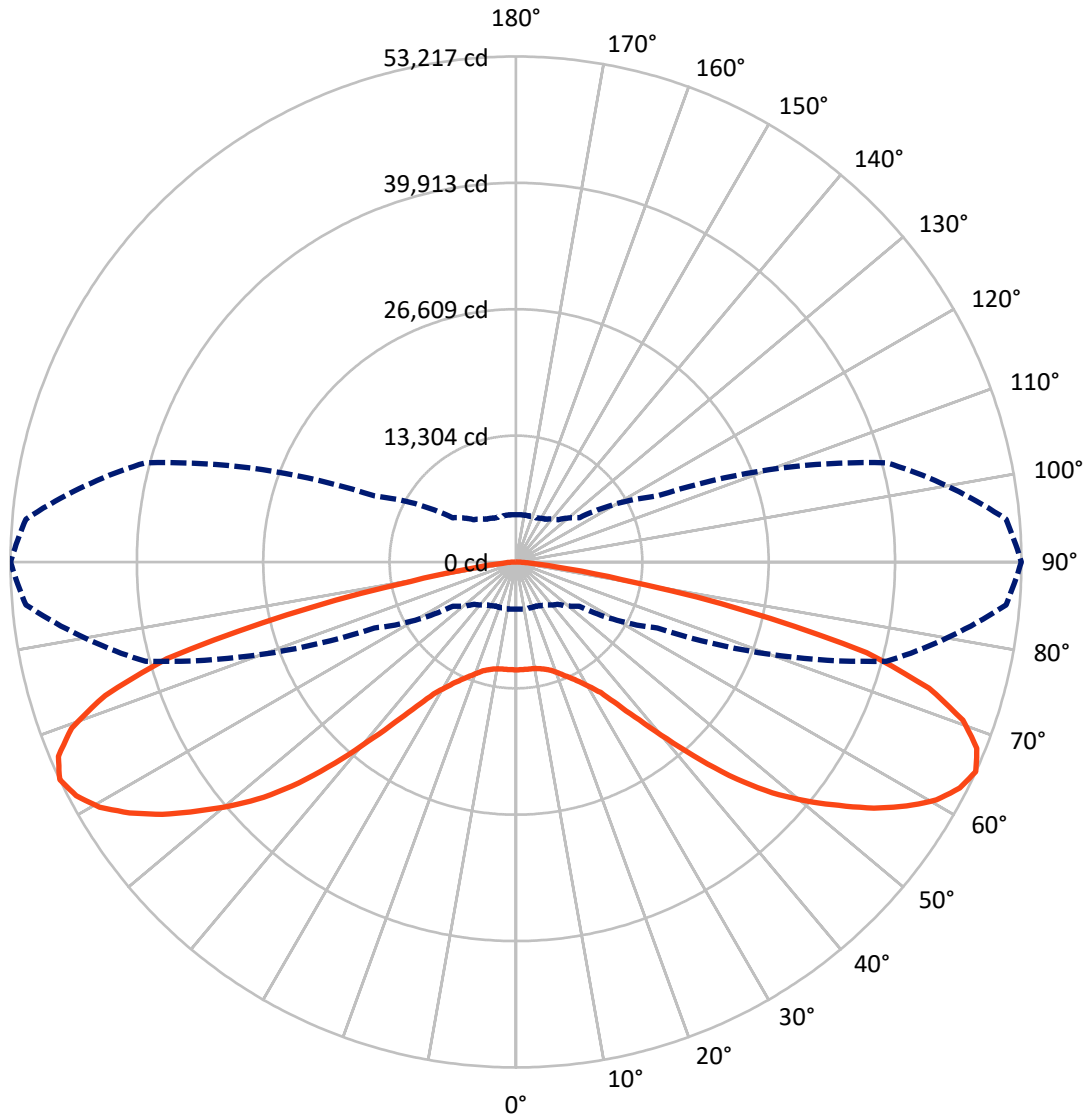
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.8 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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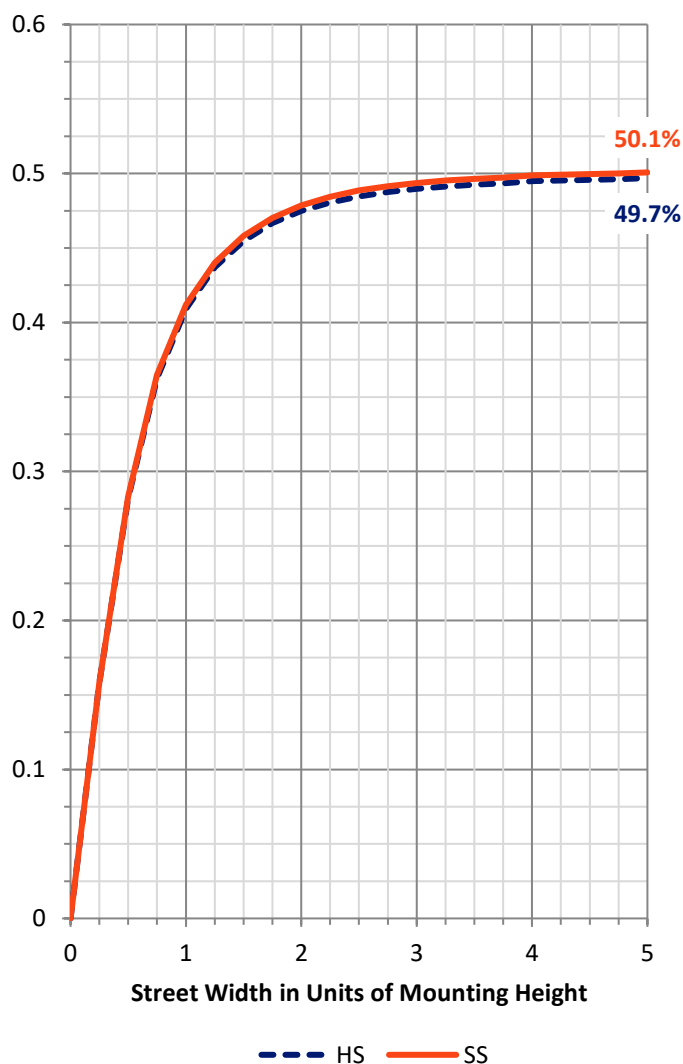
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34502.0	0.0	34502.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	34502.0	0.0	34502.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	69004.0	0.0	69004.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1078.8	1.6
10°-20°	3183.6	4.6
20°-30°	5244.1	7.6
30°-40°	7683.3	11.1
40°-50°	11360.6	16.5
50°-60°	14902.1	21.6
60°-70°	15547.2	22.5
70°-80°	8938.8	13.0
80°-90°	1065.6	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°	69004.0	100.0
0°-180°	69004.0	100.0

Coefficient of Utilization



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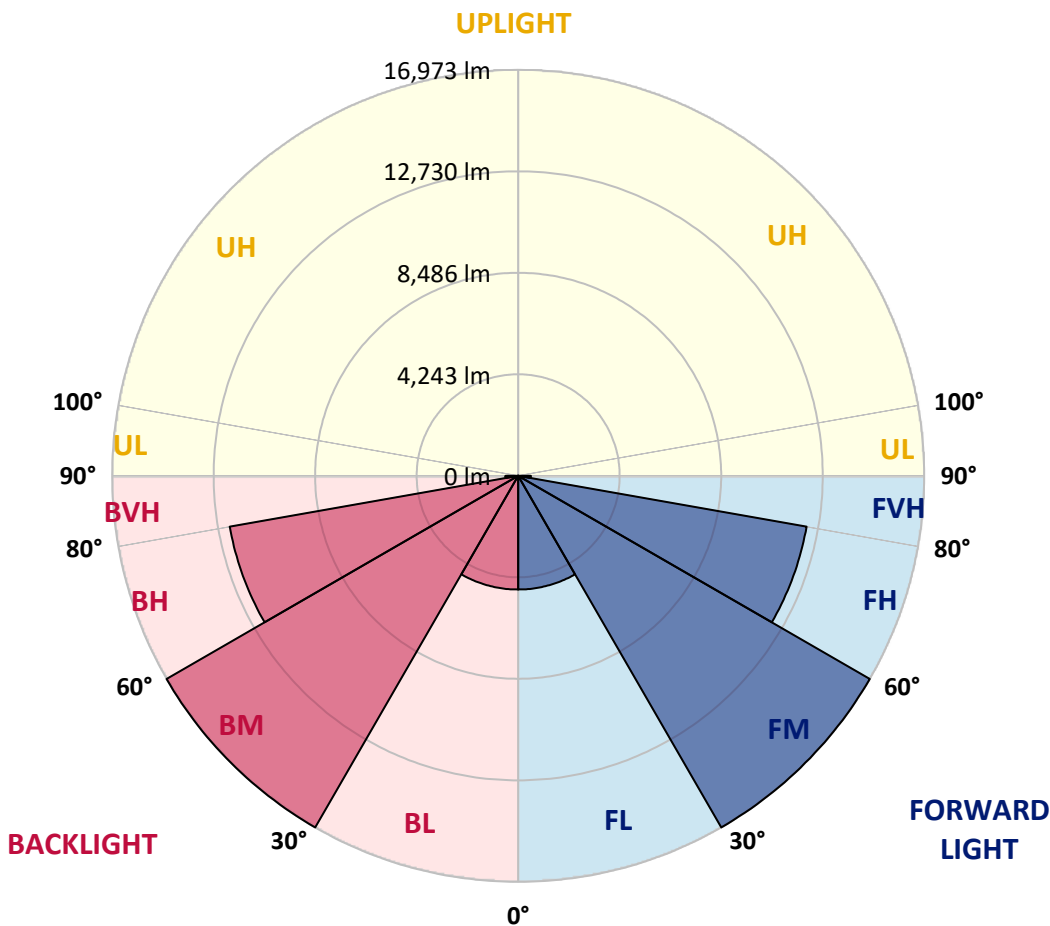
CATALOG NUMBER: CST-CA8-430-750-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4753.3	6.9			
FM (30°-60°)	16973.0	24.6			
FH (60°-80°)	12243.0	17.7			G5
FVH (80°-90°)	532.8	0.8			G4/750
BL (0°-30°)	4753.3	6.9	B4/5000		
BM (30°-60°)	16973.0	24.6	B5		
BH (60°-80°)	12243.0	17.7	B5		G5
BVH (80°-90°)	532.8	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°	11368.2	11368.2	11368.2	11368.2	11368.2	11368.2	11368.2	11368.2	11368.2	11368.2	11368.2
2.5°	11365.5	11357.4	11354.7	11350.7	11357.4	11362.8	11376.3	11388.4	11385.7	11383.0	11385.7
5°	11302.1	11306.2	11307.5	11308.9	11314.3	11318.3	11337.2	11356.1	11353.4	11350.7	11364.2
7.5°	11213.1	11213.1	11210.4	11207.7	11218.5	11227.9	11246.8	11265.7	11280.5	11294.0	11315.6
10°	11083.6	11078.2	11076.9	11075.5	11087.7	11098.5	11133.5	11168.6	11198.3	11226.6	11263.0
12.5°	10925.8	10924.5	10927.2	10929.9	10955.5	10981.1	11040.5	11099.8	11159.2	11218.5	11271.1
15°	10738.4	10722.2	10735.7	10747.8	10789.6	10830.1	10944.7	11059.4	11149.7	11238.7	11341.2
17.5°	10452.4	10436.3	10456.5	10475.4	10559.0	10642.6	10804.4	10964.9	11134.9	11304.8	11451.8
20°	10019.5	10019.5	10070.8	10122.0	10263.6	10405.2	10627.8	10849.0	11078.2	11307.5	11520.6
22.5°	9558.2	9544.8	9654.0	9763.2	9933.2	10101.8	10382.3	10662.8	10966.3	11268.4	11561.1
25°	9037.6	9060.6	9198.1	9334.4	9573.1	9810.5	10155.7	10499.6	10881.3	11263.0	11669.0
27.5°	8598.0	8602.0	8767.9	8933.8	9233.2	9531.3	9950.7	10370.2	10835.5	11300.8	11811.9
30°	8143.5	8217.6	8393.0	8567.0	8901.4	9235.9	9743.0	10248.8	10800.4	11352.0	11975.1
32.5°	7794.1	7811.7	8009.9	8206.8	8556.2	8905.5	9494.9	10084.2	10746.5	11408.7	12166.6
35°	7465.1	7493.4	7678.2	7862.9	8227.1	8589.9	9235.9	9880.6	10672.3	11462.6	12374.3
37.5°	7172.4	7207.5	7382.8	7558.1	7908.8	8259.4	8944.6	9629.7	10557.6	11485.5	12602.3
40°	6958.0	6987.6	7136.0	7284.3	7601.3	7916.9	8634.4	9350.5	10397.1	11443.7	12781.6
42.5°	6802.8	6816.3	6936.4	7056.4	7339.6	7622.9	8333.6	9043.0	10188.1	11333.1	12920.6
45°	6592.5	6622.1	6740.8	6858.1	7113.1	7366.6	8016.7	8666.8	9877.9	11087.7	12921.9
47.5°	6436.0	6454.9	6566.8	6677.4	6914.8	7152.2	7736.2	8320.1	9527.2	10733.0	12776.2
50°	6321.4	6311.9	6415.8	6518.3	6719.2	6918.8	7439.4	7958.7	9092.9	10227.2	12412.1
52.5°	6158.2	6169.0	6252.6	6336.2	6510.2	6682.8	7149.5	7614.8	8611.5	9606.8	11821.4
55°	5939.7	5989.6	6059.7	6128.5	6280.9	6433.3	6852.8	7272.2	8130.0	8986.4	11060.7
57.5°	5725.2	5761.7	5821.0	5880.3	6000.4	6119.1	6514.2	6909.4	7622.9	8336.3	10100.4
60°	5549.9	5559.3	5597.1	5633.5	5725.2	5816.9	6143.3	6469.7	7092.8	7714.6	9142.8
62.5°	5323.3	5326.0	5351.6	5377.3	5433.9	5489.2	5745.5	6000.4	6531.8	7063.1	8190.7
65°	4968.6	4990.2	5014.5	5037.4	5075.2	5111.6	5307.1	5502.7	5900.6	6298.4	7207.5
67.5°	4609.9	4591.0	4619.3	4647.6	4653.0	4658.4	4806.8	4955.1	5281.5	5607.9	6338.9
70°	4025.9	4040.7	4038.0	4034.0	4011.0	3986.8	4090.6	4194.5	4367.1	4538.4	5067.1
72.5°	3087.2	3066.9	3015.7	2963.1	2938.8	2914.5	3035.9	3156.0	3282.7	3409.5	3791.2
75°	1886.8	1944.8	2051.4	2156.6	2197.0	2237.5	2230.8	2222.7	2211.9	2201.1	2677.2
77.5°	1278.6	1309.6	1333.9	1356.8	1416.1	1474.1	1541.6	1609.0	1607.7	1606.3	1905.7
80°	813.3	789.0	799.8	810.6	844.3	878.0	980.5	1081.7	1110.0	1137.0	1343.3
82.5°	509.8	513.9	527.3	539.5	501.7	464.0	543.5	621.8	689.2	755.3	851.0
85°	330.4	374.9	368.2	361.5	316.9	272.4	342.6	412.7	445.1	476.1	512.5
87.5°	106.5	124.1	128.1	130.8	130.8	129.5	144.3	159.1	164.5	168.6	182.1
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°	11368.2	11368.2	11368.2	11368.2	11368.2	11368.2	11368.2	11368.2
2.5°	11387.1	11373.6	11360.1	11356.1	11352.0	11349.3	11346.6	11343.9
5°	11376.3	11373.6	11370.9	11360.1	11349.3	11348.0	11346.6	11350.7
7.5°	11337.2	11337.2	11337.2	11349.3	11361.5	11356.1	11349.3	11357.4
10°	11298.1	11330.4	11362.8	11372.3	11381.7	11388.4	11395.2	11401.9
12.5°	11323.7	11379.0	11432.9	11464.0	11495.0	11511.2	11526.0	11530.0
15°	11443.7	11513.9	11584.0	11625.8	11666.3	11693.2	11720.2	11727.0
17.5°	11598.8	11706.7	11813.3	11874.0	11934.7	11965.7	11995.4	11985.9
20°	11732.4	11880.7	12029.1	12158.5	12288.0	12359.5	12429.6	12437.7
22.5°	11852.4	12101.9	12351.4	12518.6	12684.5	12811.3	12938.1	12951.6
25°	12073.6	12400.0	12726.3	12993.4	13260.4	13376.4	13491.1	13558.5
27.5°	12321.7	12758.7	13195.7	13553.1	13910.5	14087.2	14262.5	14272.0
30°	12596.9	13151.2	13704.2	14184.3	14663.1	14878.9	15093.3	15206.6
32.5°	12923.3	13627.3	14330.0	14961.1	15592.3	15920.1	16247.8	16362.4
35°	13284.7	14197.8	15109.5	15979.4	16848.0	17475.1	18102.3	18404.4
37.5°	13719.0	14881.6	16044.2	17351.0	18657.9	19727.5	20795.6	21100.4
40°	14119.6	15615.3	17109.6	18925.0	20740.3	22437.0	24132.3	24462.7
42.5°	14508.0	16317.9	18127.9	20604.1	23080.3	25351.5	27622.8	28481.9
45°	14754.8	16943.7	19131.3	22396.5	25661.7	28779.9	31896.8	32618.3
47.5°	14818.2	17390.2	19962.1	24006.9	28051.6	31721.5	35389.9	36316.5
50°	14597.0	17622.1	20647.3	25985.4	31322.2	35059.5	38795.4	39556.1
52.5°	14035.9	17548.0	21060.0	27518.9	33977.8	37933.6	41889.3	42579.9
55°	13135.0	17097.5	21060.0	28781.3	36501.3	40604.0	44705.4	45754.7
57.5°	11864.5	16237.0	20609.5	29624.2	38638.9	43095.1	47551.2	48493.9
60°	10571.1	15213.4	19854.2	30089.5	40324.8	45045.3	49765.7	50866.3
62.5°	9316.8	13822.8	18327.5	29601.3	40875.1	45858.5	50840.6	52424.0
65°	8116.5	12278.6	16440.7	28410.4	40378.8	46089.2	51798.2	53217.1
67.5°	7069.9	10987.9	14905.8	26414.3	37922.8	44242.8	50561.5	52329.6
70°	5595.8	9200.8	12805.9	22875.3	32944.7	40346.4	47748.1	49930.3
72.5°	4172.9	7230.4	10286.5	17994.4	25702.2	34213.9	42724.2	45470.1
75°	3151.9	5775.1	8398.4	14223.4	20048.4	27254.6	34460.7	38135.9
77.5°	2205.1	4172.9	6139.3	10484.8	14830.3	18819.8	22809.2	24767.6
80°	1548.3	2639.4	3729.2	5819.6	7908.8	9678.3	11446.4	11306.2
82.5°	945.4	1404.0	1861.2	2524.8	3188.3	3615.9	4043.4	4024.5
85°	548.9	667.6	784.9	972.4	1159.9	1371.6	1583.4	1408.0
87.5°	194.2	194.2	194.2	222.5	250.9	345.3	439.7	464.0
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: P721927
 CATALOG NUMBER: CST-CA8-430-750-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)