

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: P721917

Luminaire Tested: **CST-CA8-430-740-U-T1**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721917
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-CA8-430-740-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67761 lumens
Efficiency: N/A
Efficacy: 156.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

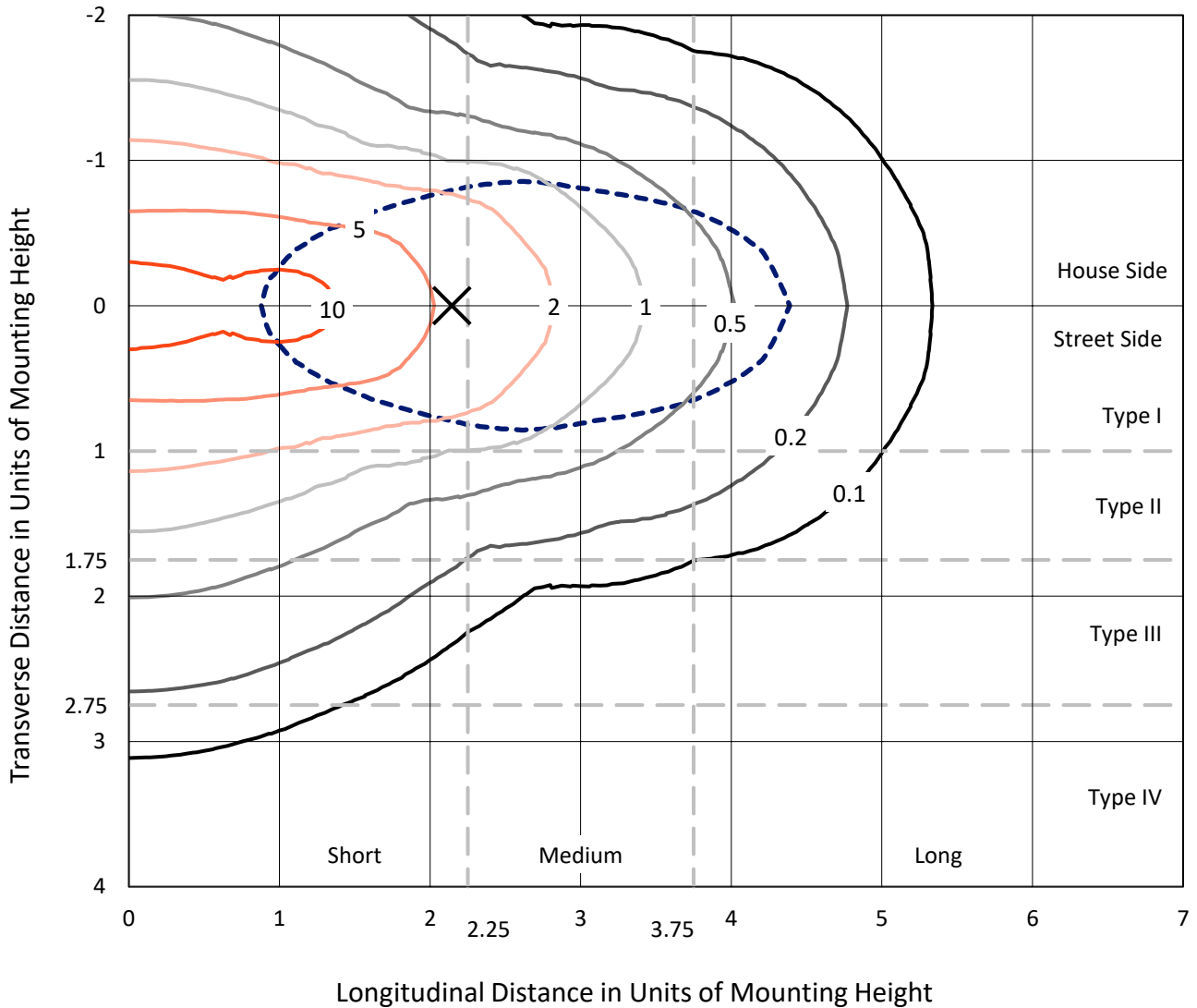
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

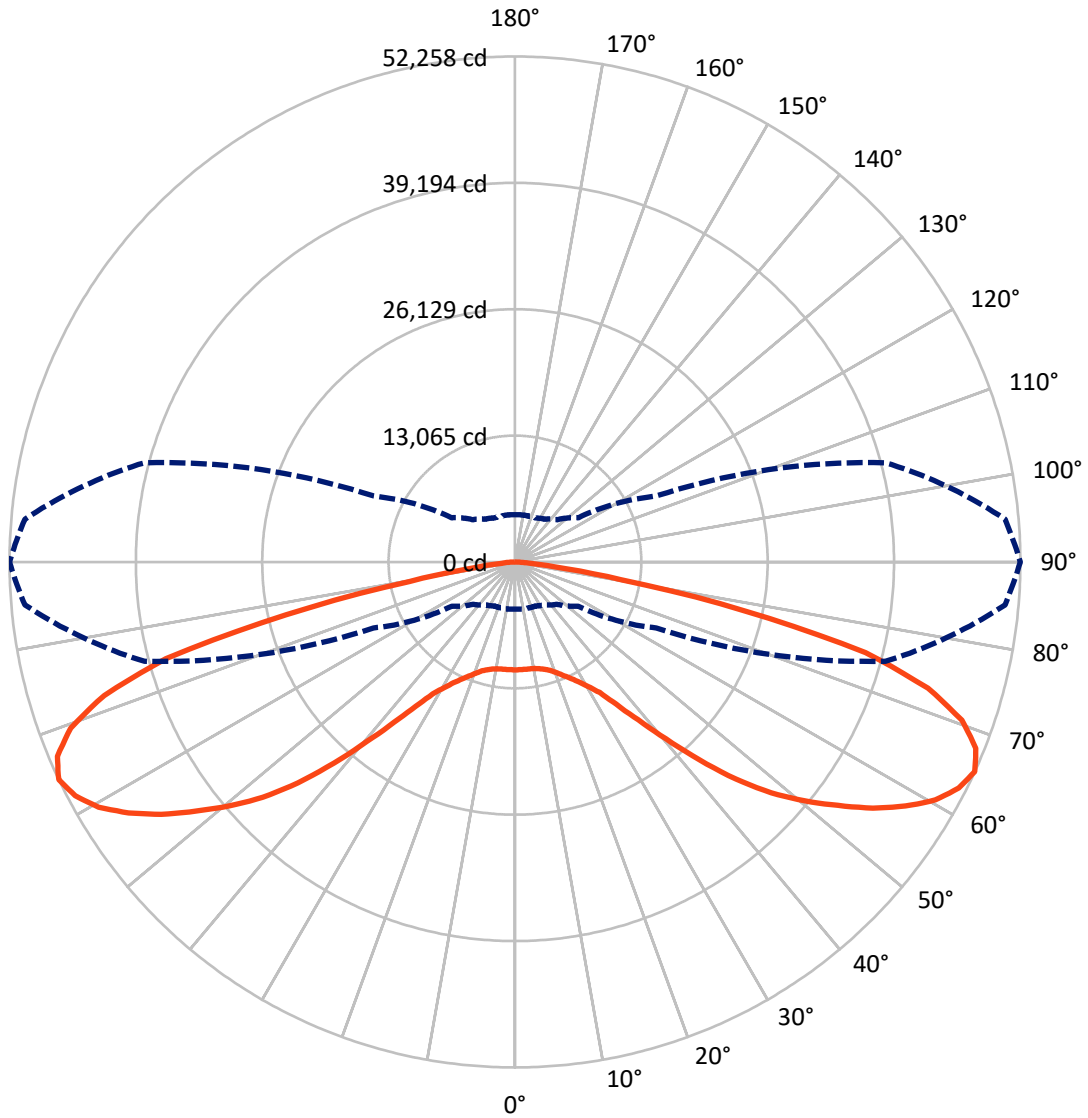
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.6 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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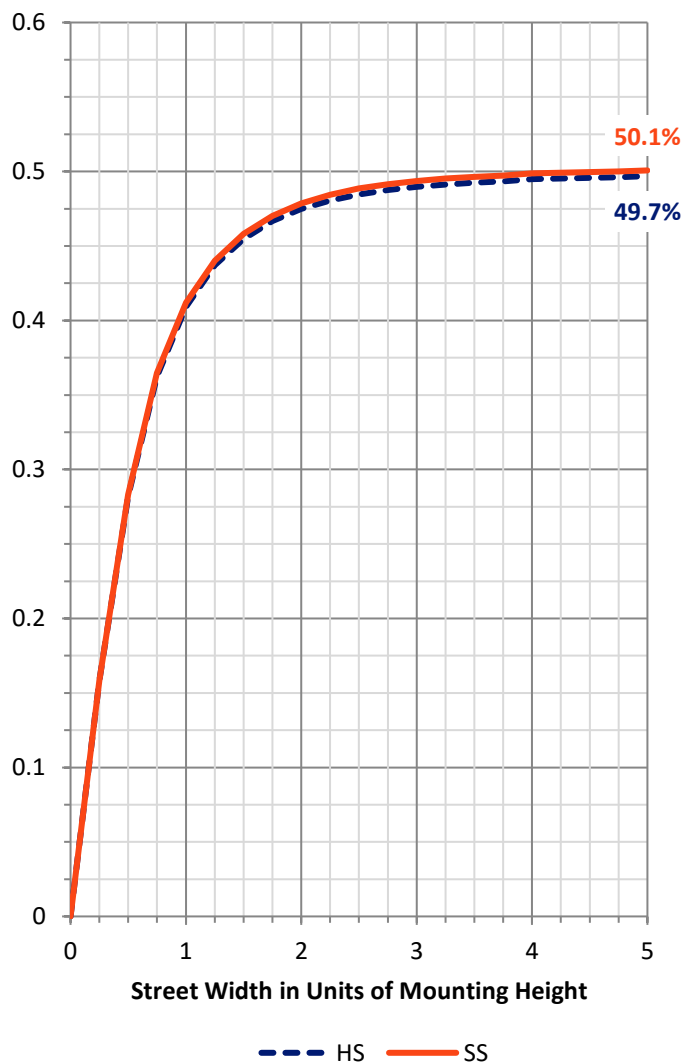
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	33880.5	0.0	33880.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33880.5	0.0	33880.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	67761.0	0.0	67761.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1059.4	1.6
10°-20°	3126.2	4.6
20°-30°	5149.7	7.6
30°-40°	7544.9	11.1
40°-50°	11155.9	16.5
50°-60°	14633.7	21.6
60°-70°	15267.1	22.5
70°-80°	8777.7	13.0
80°-90°	1046.4	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°	67761.0	100.0
0°-180°	67761.0	100.0

Coefficient of Utilization

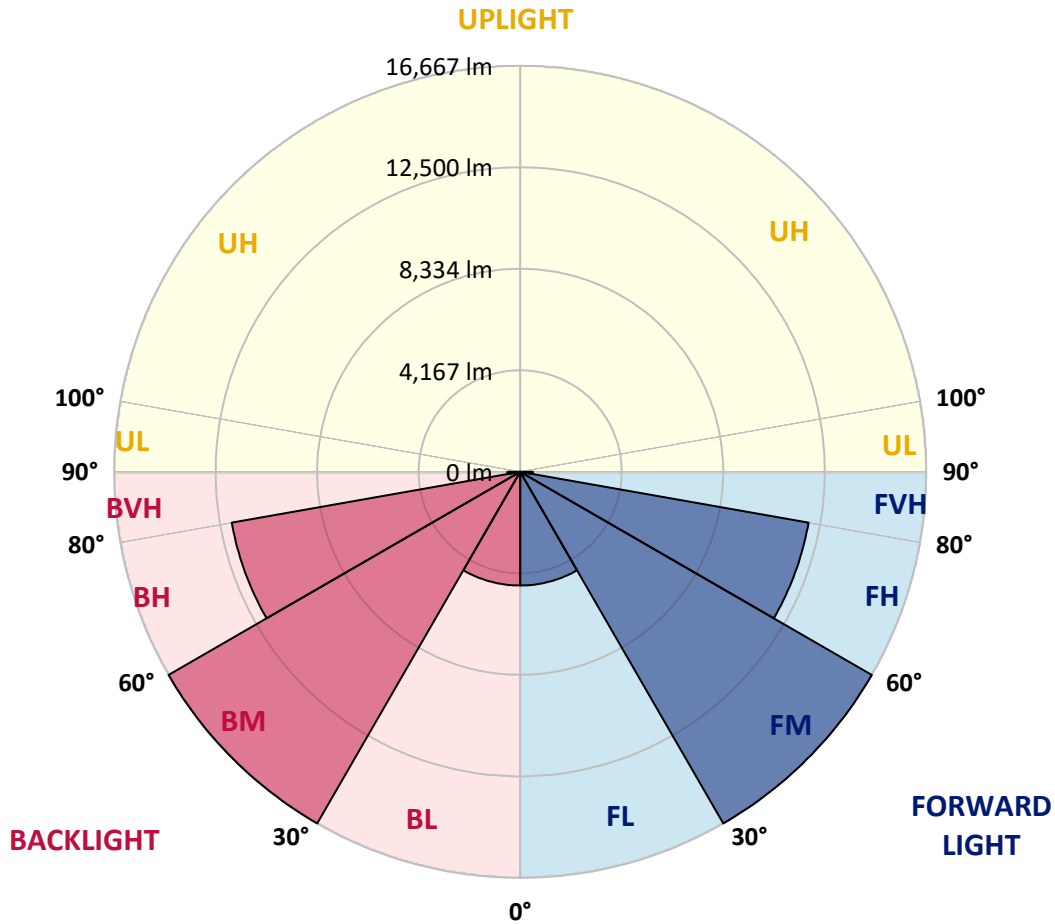


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4667.6	6.9			
FM (30°-60°)	16667.3	24.6			
FH (60°-80°)	12022.4	17.7			G5
FVH (80°-90°)	523.2	0.8			G4/750
BL (0°-30°)	4667.6	6.9	B4/5000		
BM (30°-60°)	16667.3	24.6	B5		
BH (60°-80°)	12022.4	17.7	B5		G5
BVH (80°-90°)	523.2	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°	11163.4	11163.4	11163.4	11163.4	11163.4	11163.4	11163.4	11163.4	11163.4	11163.4	11163.4
2.5°	11160.8	11152.8	11150.2	11146.2	11152.8	11158.1	11171.4	11183.3	11180.6	11178.0	11180.6
5°	11098.5	11102.5	11103.8	11105.1	11110.4	11114.4	11133.0	11151.5	11148.9	11146.2	11159.5
7.5°	11011.1	11011.1	11008.5	11005.8	11016.4	11025.7	11044.2	11062.8	11077.3	11090.6	11111.8
10°	10884.0	10878.7	10877.4	10876.0	10887.9	10898.5	10933.0	10967.4	10996.5	11024.4	11060.1
12.5°	10729.0	10727.7	10730.3	10733.0	10758.2	10783.3	10841.6	10899.9	10958.1	11016.4	11068.1
15°	10544.9	10529.0	10542.3	10554.2	10595.3	10635.0	10747.6	10860.1	10948.9	11036.3	11136.9
17.5°	10264.2	10248.3	10268.1	10286.7	10368.8	10450.9	10609.8	10767.4	10934.3	11101.2	11245.5
20°	9839.0	9839.0	9889.3	9939.7	10078.7	10217.8	10436.3	10653.5	10878.7	11103.8	11313.1
22.5°	9386.1	9372.8	9480.1	9587.4	9754.3	9919.8	10195.3	10470.8	10768.8	11065.4	11352.8
25°	8874.8	8897.4	9032.5	9166.2	9400.6	9633.7	9972.8	10310.5	10685.3	11060.1	11458.8
27.5°	8443.1	8447.1	8610.0	8772.9	9066.9	9359.6	9771.5	10183.4	10640.3	11097.2	11599.2
30°	7996.8	8069.6	8241.8	8412.6	8741.1	9069.5	9567.5	10064.2	10605.8	11147.5	11759.4
32.5°	7653.7	7671.0	7865.7	8059.0	8402.0	8745.1	9323.8	9902.6	10552.9	11203.2	11947.5
35°	7330.6	7358.4	7539.8	7721.3	8078.9	8435.1	9069.5	9702.6	10480.0	11256.1	12151.4
37.5°	7043.2	7077.6	7249.8	7422.0	7766.3	8110.7	8783.5	9456.3	10367.5	11278.6	12375.3
40°	6832.6	6861.8	7007.4	7153.1	7464.4	7774.3	8478.9	9182.1	10209.9	11237.6	12551.4
42.5°	6680.3	6693.6	6811.4	6929.3	7207.4	7485.5	8183.5	8880.1	10004.6	11129.0	12687.8
45°	6473.7	6502.8	6619.4	6734.6	6984.9	7233.9	7872.3	8510.6	9700.0	10887.9	12689.1
47.5°	6320.1	6338.6	6448.5	6557.1	6790.2	7023.3	7596.8	8170.3	9355.6	10539.6	12546.1
50°	6207.5	6198.2	6300.2	6400.9	6598.2	6794.2	7305.4	7815.3	8929.1	10043.0	12188.5
52.5°	6047.2	6057.8	6139.9	6222.1	6392.9	6562.4	7020.7	7477.6	8456.3	9433.7	11608.4
55°	5832.7	5881.7	5950.6	6018.1	6167.8	6317.4	6729.3	7141.2	7983.5	8824.5	10861.5
57.5°	5622.1	5657.9	5716.1	5774.4	5892.3	6008.8	6396.9	6784.9	7485.5	8186.2	9918.5
60°	5449.9	5459.2	5496.3	5532.0	5622.1	5712.2	6032.7	6353.2	6965.1	7575.6	8978.2
62.5°	5227.4	5230.1	5255.2	5280.4	5336.0	5390.3	5642.0	5892.3	6414.1	6935.9	8043.1
65°	4879.1	4900.3	4924.1	4946.7	4983.7	5019.5	5211.5	5403.6	5794.3	6185.0	7077.6
67.5°	4526.8	4508.3	4536.1	4563.9	4569.2	4574.5	4720.2	4865.9	5186.4	5506.9	6224.7
70°	3953.4	3967.9	3965.3	3961.3	3938.8	3914.9	4016.9	4118.9	4288.4	4456.6	4975.8
72.5°	3031.6	3011.7	2961.4	2909.7	2885.9	2862.0	2981.2	3099.1	3223.6	3348.1	3722.9
75°	1852.8	1909.8	2014.4	2117.7	2157.5	2197.2	2190.6	2182.6	2172.0	2161.4	2628.9
77.5°	1255.5	1286.0	1309.8	1332.4	1390.6	1447.6	1513.8	1580.0	1578.7	1577.4	1871.4
80°	798.6	774.8	785.4	796.0	829.1	862.2	962.8	1062.2	1090.0	1116.5	1319.1
82.5°	500.6	504.6	517.8	529.8	492.7	455.6	533.7	610.6	676.8	741.7	835.7
85°	324.5	368.2	361.6	354.9	311.2	267.5	336.4	405.3	437.1	467.5	503.3
87.5°	104.6	121.8	125.8	128.5	128.5	127.1	141.7	156.3	161.6	165.6	178.8
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°	11163.4	11163.4	11163.4	11163.4	11163.4	11163.4	11163.4	11163.4
2.5°	11182.0	11168.7	11155.5	11151.5	11147.5	11144.9	11142.2	11139.6
5°	11171.4	11168.7	11166.1	11155.5	11144.9	11143.6	11142.2	11146.2
7.5°	11133.0	11133.0	11133.0	11144.9	11156.8	11151.5	11144.9	11152.8
10°	11094.6	11126.3	11158.1	11167.4	11176.7	11183.3	11189.9	11196.5
12.5°	11119.7	11174.0	11227.0	11257.5	11287.9	11303.8	11318.4	11322.4
15°	11237.6	11306.5	11375.3	11416.4	11456.1	11482.6	11509.1	11515.7
17.5°	11389.9	11495.8	11600.5	11660.1	11719.7	11750.1	11779.3	11770.0
20°	11521.0	11666.7	11812.4	11939.5	12066.7	12136.9	12205.7	12213.7
22.5°	11638.9	11883.9	12128.9	12293.1	12456.0	12580.5	12705.0	12718.3
25°	11856.1	12176.6	12497.1	12759.3	13021.6	13135.5	13248.0	13314.3
27.5°	12099.8	12528.9	12958.0	13309.0	13659.9	13833.4	14005.6	14014.9
30°	12370.0	12914.3	13457.3	13928.8	14398.9	14610.9	14821.4	14932.7
32.5°	12690.5	13381.8	14071.8	14691.6	15311.5	15633.3	15955.1	16067.7
35°	13045.4	13942.0	14837.3	15691.6	16544.5	17160.3	17776.2	18072.9
37.5°	13471.9	14613.5	15755.1	17038.5	18321.8	19372.1	20421.0	20720.3
40°	13865.2	15334.0	16801.4	18584.1	20366.7	22032.8	23697.6	24022.1
42.5°	14246.6	16024.0	17801.3	20233.0	22664.6	24894.9	27125.2	27968.8
45°	14489.0	16638.5	18786.7	21993.1	25199.5	28261.5	31322.2	32030.8
47.5°	14551.3	17076.9	19602.5	23574.4	27546.3	31150.0	34752.4	35662.3
50°	14334.1	17304.7	20275.3	25517.3	30758.0	34428.0	38096.6	38843.5
52.5°	13783.1	17231.9	20680.6	27023.2	33365.8	37250.3	41134.7	41812.8
55°	12898.4	16789.5	20680.6	28262.8	35843.7	39872.6	43900.1	44930.5
57.5°	11650.8	15944.5	20238.3	29090.6	37942.9	42318.8	46694.6	47620.4
60°	10380.7	14939.3	19496.6	29547.5	39598.4	44233.9	48869.3	49950.0
62.5°	9149.0	13573.8	17997.4	29068.1	40138.8	45032.5	49924.8	51479.7
65°	7970.3	12057.4	16144.5	27898.6	39651.4	45258.9	50865.2	52258.4
67.5°	6942.5	10789.9	14637.3	25938.5	37239.7	43445.8	49650.7	51387.0
70°	5495.0	9035.1	12575.2	22463.3	32351.3	39619.6	46888.0	49030.9
72.5°	4097.7	7100.1	10101.2	17670.2	25239.2	33597.5	41954.6	44651.0
75°	3095.1	5671.1	8247.1	13967.2	19687.3	26763.6	33839.9	37448.9
77.5°	2165.4	4097.7	6028.7	10295.9	14563.2	18480.8	22398.4	24321.4
80°	1520.4	2591.9	3662.0	5714.8	7766.3	9503.9	11240.2	11102.5
82.5°	928.4	1378.7	1827.7	2479.3	3130.9	3550.7	3970.6	3952.0
85°	539.0	655.6	770.8	954.9	1139.0	1346.9	1554.9	1382.7
87.5°	190.7	190.7	190.7	218.5	246.3	339.0	431.8	455.6
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: P721917
 CATALOG NUMBER: CST-CA8-430-740-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)