

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: P510565

Luminaire Tested: **CST-CA10-630-760-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-630-760-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 95565 lumens
Efficiency: N/A
Efficacy: 151.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

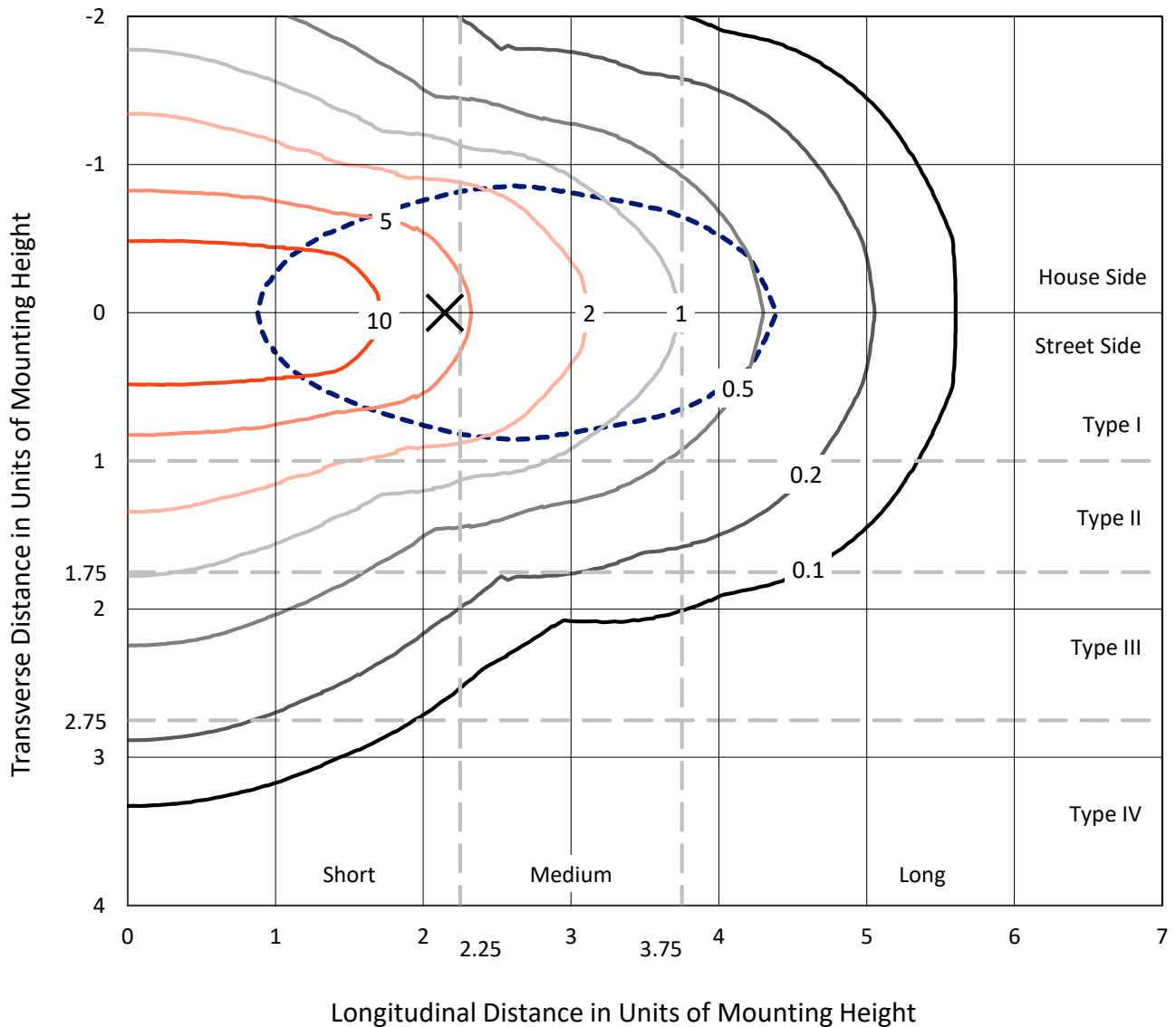
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

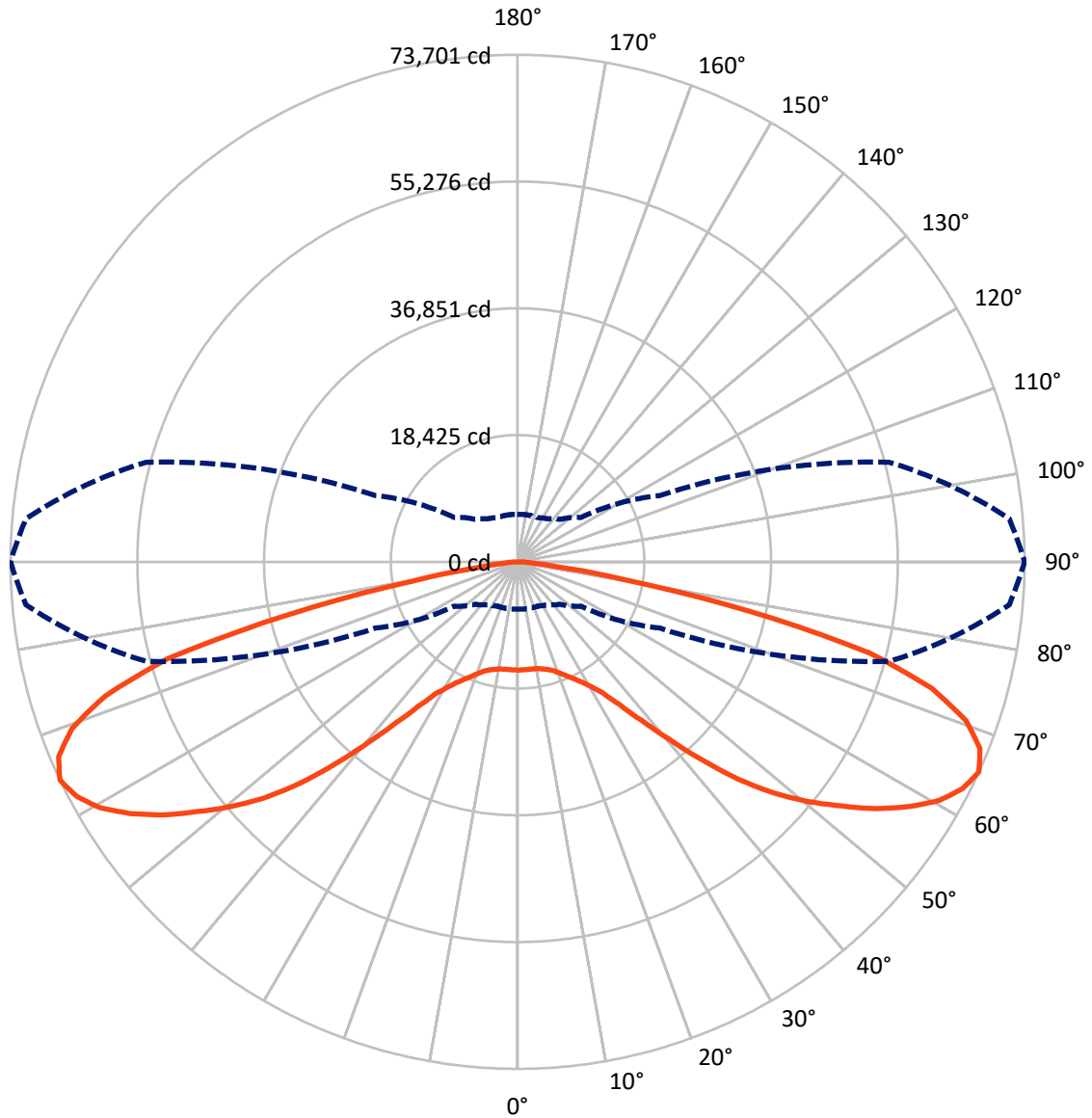
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.7 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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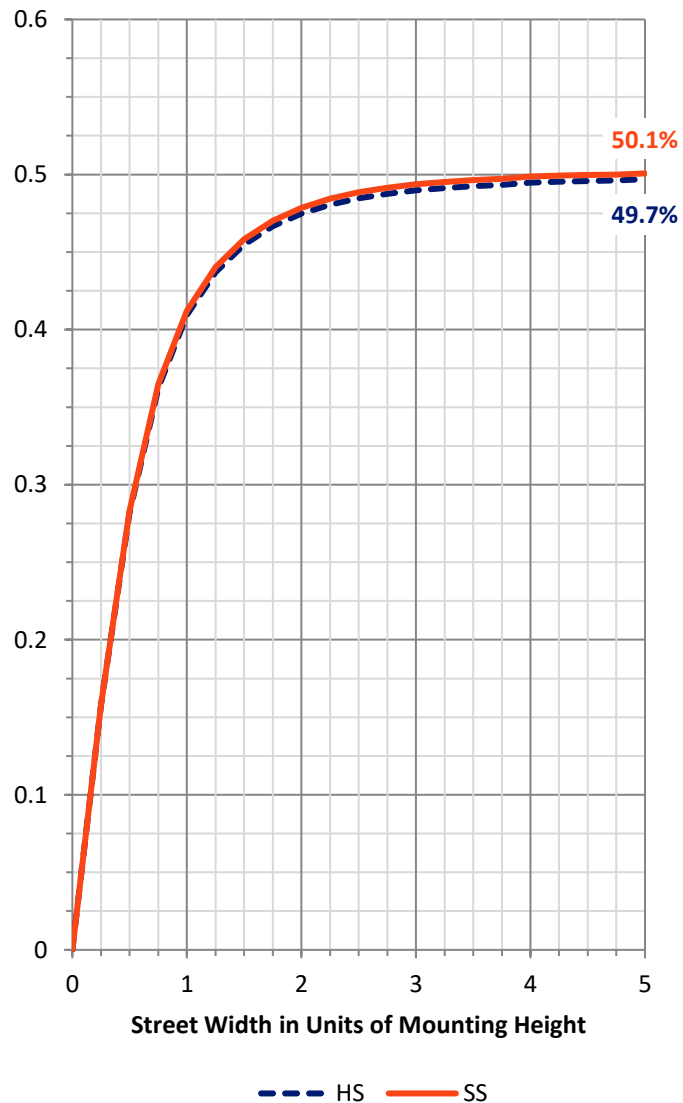
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	47782.5	0.0	47782.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	47782.5	0.0	47782.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	95565.0	0.0	95565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1494.1	1.6
10°-20°	4409.0	4.6
20°-30°	7262.7	7.6
30°-40°	10640.7	11.1
40°-50°	15733.5	16.5
50°-60°	20638.3	21.6
60°-70°	21531.6	22.5
70°-80°	12379.4	13.0
80°-90°	1475.7	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°	95565.0	100.0
0°-180°	95565.0	100.0

Coefficient of Utilization

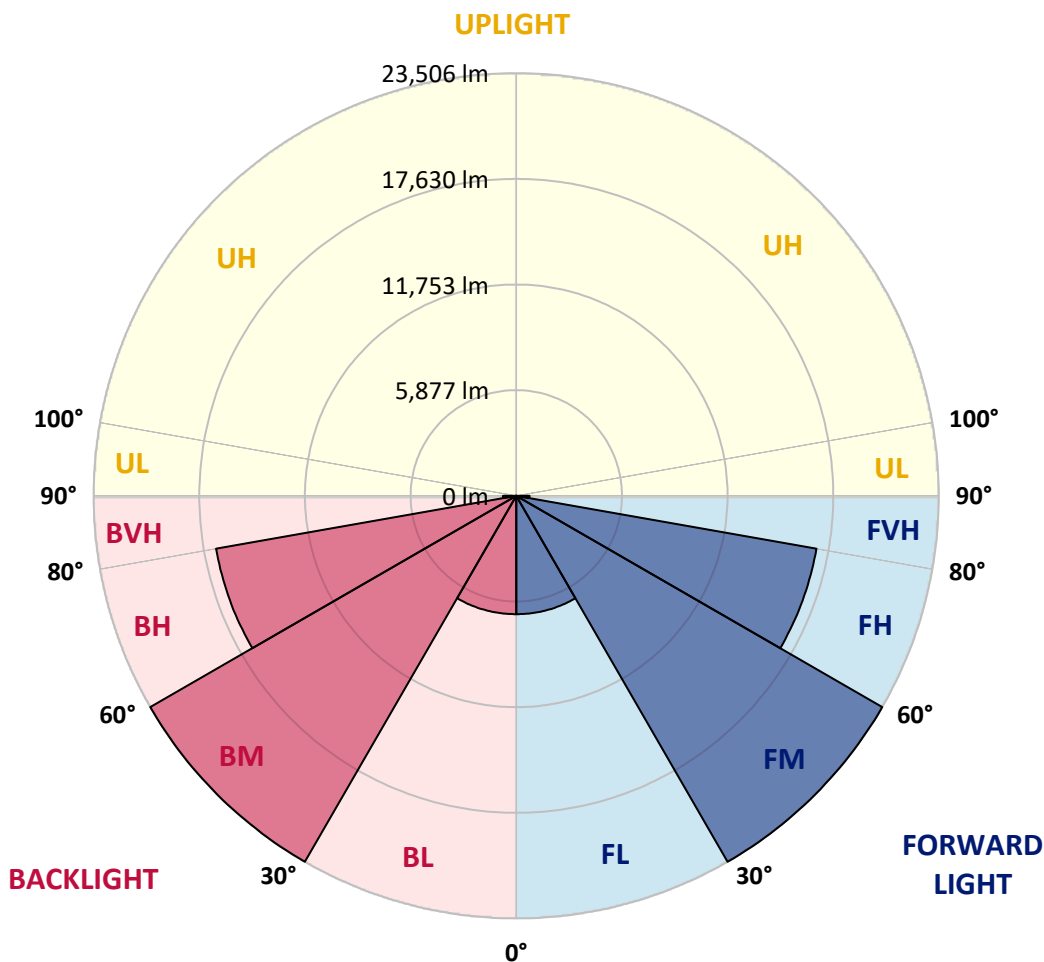


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6582.9	6.9			
FM (30°-60°)	23506.2	24.6			
FH (60°-80°)	16955.5	17.7			G5
FVH (80°-90°)	737.9	0.8			G4/750
BL (0°-30°)	6582.9	6.9	B5		
BM (30°-60°)	23506.2	24.6	B5		
BH (60°-80°)	16955.5	17.7	B5		G5
BVH (80°-90°)	737.9	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°	15744.0	15744.0	15744.0	15744.0	15744.0	15744.0	15744.0	15744.0	15744.0	15744.0	15744.0
2.5°	15740.3	15729.1	15725.4	15719.8	15729.1	15736.6	15755.3	15772.1	15768.3	15764.6	15768.3
5°	15652.5	15658.1	15660.0	15661.9	15669.3	15674.9	15701.1	15727.2	15723.5	15719.8	15738.4
7.5°	15529.2	15529.2	15525.5	15521.8	15536.7	15549.8	15575.9	15602.1	15622.6	15641.3	15671.2
10°	15349.9	15342.5	15340.6	15338.7	15355.5	15370.5	15419.0	15467.6	15508.7	15547.9	15598.4
12.5°	15131.4	15129.5	15133.3	15137.0	15172.5	15208.0	15290.2	15372.3	15454.5	15536.7	15609.6
15°	14871.8	14849.4	14868.0	14884.8	14942.7	14998.8	15157.5	15316.3	15441.5	15564.7	15706.7
17.5°	14475.8	14453.4	14481.4	14507.5	14623.3	14739.2	14963.3	15185.6	15420.9	15656.3	15859.9
20°	13876.2	13876.2	13947.2	14018.2	14214.3	14410.4	14718.6	15024.9	15342.5	15660.0	15955.1
22.5°	13237.4	13218.7	13370.0	13521.3	13756.7	13990.1	14378.7	14767.2	15187.4	15605.8	16011.2
25°	12516.4	12548.2	12738.7	12927.3	13258.0	13586.7	14064.9	14541.2	15069.8	15598.4	16160.6
27.5°	11907.5	11913.1	12142.8	12372.6	12787.3	13200.0	13780.9	14361.8	15006.3	15650.7	16358.6
30°	11278.0	11380.8	11623.6	11864.5	12327.8	12791.0	13493.3	14193.7	14957.7	15721.6	16584.6
32.5°	10794.3	10818.5	11093.1	11365.8	11849.6	12333.4	13149.6	13965.9	14883.0	15800.1	16849.8
35°	10338.5	10377.7	10633.6	10889.5	11393.8	11896.3	12791.0	13683.8	14780.2	15874.8	17137.5
37.5°	9933.2	9981.8	10224.6	10467.4	10953.0	11438.7	12387.5	13336.4	14621.5	15906.6	17453.1
40°	9636.2	9677.3	9882.8	10088.2	10527.2	10964.2	11957.9	12949.8	14399.2	15848.6	17701.5
42.5°	9421.4	9440.1	9606.3	9772.6	10164.8	10557.0	11541.4	12523.9	14109.7	15695.5	17893.9
45°	9130.0	9171.1	9335.5	9498.0	9851.0	10202.2	11102.5	12002.8	13680.1	15355.5	17895.8
47.5°	8913.3	8939.5	9094.5	9247.7	9576.4	9905.2	10713.9	11522.7	13194.4	14864.3	17694.1
50°	8754.6	8741.5	8885.3	9027.3	9305.6	9582.0	10303.0	11022.1	12593.0	14163.9	17189.8
52.5°	8528.6	8543.5	8659.3	8775.1	9016.1	9255.2	9901.4	10545.8	11926.2	13304.6	16371.6
55°	8226.0	8295.1	8392.2	8487.5	8698.5	8909.6	9490.5	10071.4	11259.4	12445.4	15318.2
57.5°	7929.0	7979.4	8061.6	8143.8	8310.0	8474.4	9021.7	9569.0	10557.0	11545.1	13988.3
60°	7686.2	7699.2	7751.5	7802.0	7929.0	8056.0	8508.0	8960.0	9823.0	10684.1	12662.1
62.5°	7372.4	7376.1	7411.6	7447.1	7525.5	7602.1	7957.0	8310.0	9046.0	9781.9	11343.4
65°	6881.1	6911.0	6944.6	6976.4	7028.7	7079.1	7350.0	7620.8	8171.8	8722.8	9981.8
67.5°	6384.3	6358.1	6397.4	6436.6	6444.1	6451.5	6657.0	6862.5	7314.5	7766.5	8778.9
70°	5575.5	5596.1	5592.3	5586.7	5555.0	5521.3	5665.2	5809.0	6048.1	6285.3	7017.5
72.5°	4275.5	4247.5	4176.5	4103.7	4070.0	4036.4	4204.5	4370.8	4546.3	4721.9	5250.5
75°	2613.1	2693.4	2841.0	2986.7	3042.7	3098.8	3089.4	3078.2	3063.3	3048.3	3707.7
77.5°	1770.7	1813.7	1847.3	1879.1	1961.2	2041.6	2134.9	2228.3	2226.5	2224.6	2639.3
80°	1126.3	1092.7	1107.6	1122.6	1169.3	1216.0	1357.9	1498.0	1537.2	1574.6	1860.4
82.5°	706.0	711.6	730.3	747.1	694.8	642.5	752.7	861.1	954.5	1046.0	1178.6
85°	457.6	519.3	509.9	500.6	438.9	377.3	474.4	571.6	616.4	659.3	709.8
87.5°	147.6	171.8	177.4	181.2	181.2	179.3	199.9	220.4	227.9	233.5	252.2
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°	15744.0	15744.0	15744.0	15744.0	15744.0	15744.0	15744.0	15744.0
2.5°	15770.2	15751.5	15732.8	15727.2	15721.6	15717.9	15714.2	15710.4
5°	15755.3	15751.5	15747.8	15732.8	15717.9	15716.0	15714.2	15719.8
7.5°	15701.1	15701.1	15701.1	15717.9	15734.7	15727.2	15717.9	15729.1
10°	15646.9	15691.8	15736.6	15749.7	15762.7	15772.1	15781.4	15790.7
12.5°	15682.4	15759.0	15833.7	15876.7	15919.6	15942.0	15962.6	15968.2
15°	15848.6	15945.8	16042.9	16100.8	16156.8	16194.2	16231.6	16240.9
17.5°	16063.5	16212.9	16360.4	16444.5	16528.5	16571.5	16612.6	16599.5
20°	16248.4	16453.8	16659.3	16838.6	17017.9	17116.9	17214.0	17225.2
22.5°	16414.6	16760.2	17105.7	17337.3	17567.1	17742.6	17918.2	17936.9
25°	16720.9	17172.9	17625.0	17994.8	18364.6	18525.3	18684.0	18777.4
27.5°	17064.6	17669.8	18275.0	18770.0	19264.9	19509.6	19752.4	19765.5
30°	17445.7	18213.3	18979.2	19644.1	20307.2	20606.0	20903.0	21059.9
32.5°	17897.7	18872.7	19845.8	20720.0	21594.1	22048.0	22501.9	22660.7
35°	18398.3	19662.8	20925.4	22130.2	23333.1	24201.6	25070.2	25488.6
37.5°	18999.7	20609.8	22219.9	24029.8	25839.7	27320.9	28800.3	29222.4
40°	19554.4	21625.9	23695.5	26209.6	28723.7	31073.4	33421.3	33878.9
42.5°	20092.4	22599.0	25105.7	28535.0	31964.4	35109.8	38255.3	39445.1
45°	20434.2	23465.7	26495.4	31017.4	35539.5	39857.9	44174.5	45173.8
47.5°	20522.0	24084.0	27645.9	33247.6	38849.3	43931.7	49012.2	50295.4
50°	20215.7	24405.2	28594.8	35987.7	43378.8	48554.6	53728.5	54782.0
52.5°	19438.6	24302.5	29166.4	38111.5	47056.6	52535.0	58013.3	58969.7
55°	18190.9	23678.6	29166.4	39859.8	50551.3	56233.3	61913.4	63366.6
57.5°	16431.4	22487.0	28542.5	41027.2	53511.8	59683.2	65854.5	67160.2
60°	14640.2	21069.3	27496.5	41671.6	55846.6	62384.1	68921.5	70445.7
62.5°	12903.1	19143.5	25382.1	40995.4	56608.7	63510.4	70410.2	72603.1
65°	11240.7	17004.8	22769.0	39346.1	55921.4	63829.8	71736.4	73701.4
67.5°	9791.2	15217.3	20643.4	36581.7	52520.0	61272.7	70023.6	72472.3
70°	7749.7	12742.4	17735.2	31680.5	45625.8	55876.5	66127.3	69149.4
72.5°	5779.1	10013.5	14246.0	24920.8	35595.5	47383.4	59169.5	62972.5
75°	4365.1	7998.1	11631.1	19698.3	27765.5	37745.4	47725.3	52815.1
77.5°	3053.9	5779.1	8502.4	14520.6	20538.8	26063.9	31589.0	34301.1
80°	2144.3	3655.4	5164.6	8059.7	10953.0	13403.6	15852.4	15658.1
82.5°	1309.4	1944.4	2577.6	3496.6	4415.6	5007.7	5599.8	5573.6
85°	760.2	924.6	1087.1	1346.7	1606.3	1899.6	2192.8	1950.0
87.5°	269.0	269.0	269.0	308.2	347.4	478.2	608.9	642.5
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



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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)