

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: P579438

Luminaire Tested: **CST-CA10-630-730-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579438  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/18/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA10-630-730-U-T5-HSS-HM-EX90  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (10) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 73142 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B5 - U2 - G5

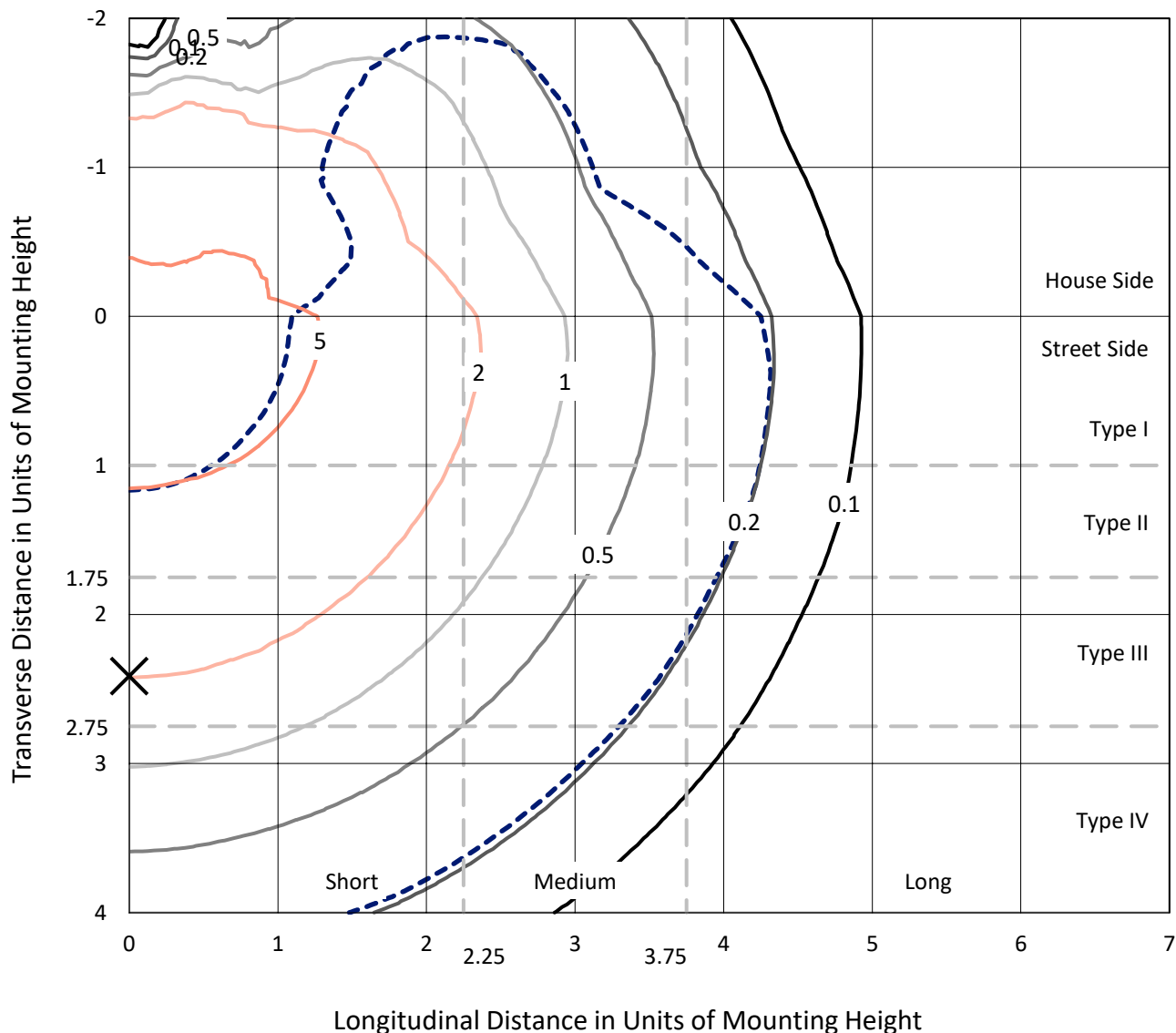
Input Watts (W): 631.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

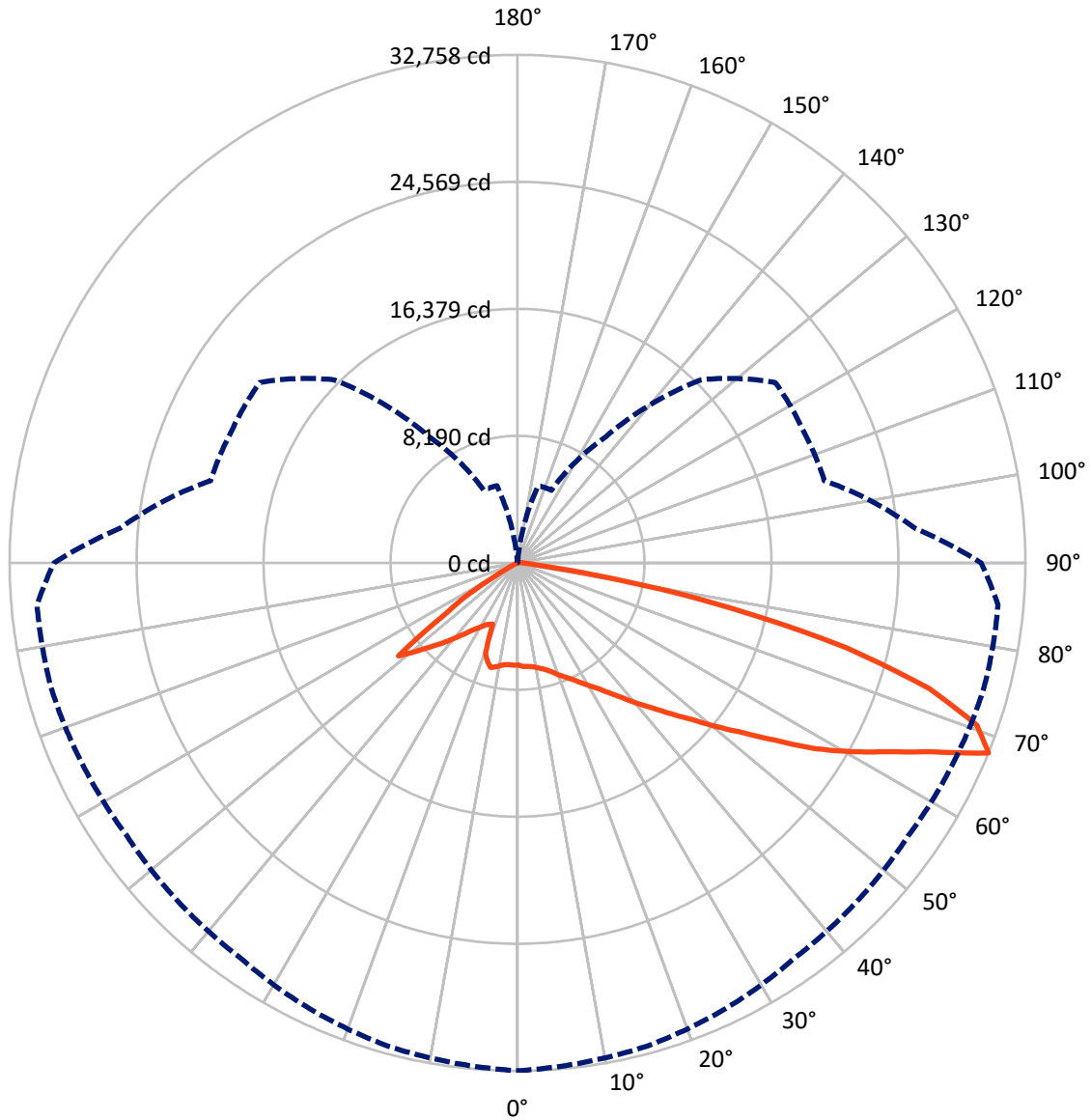
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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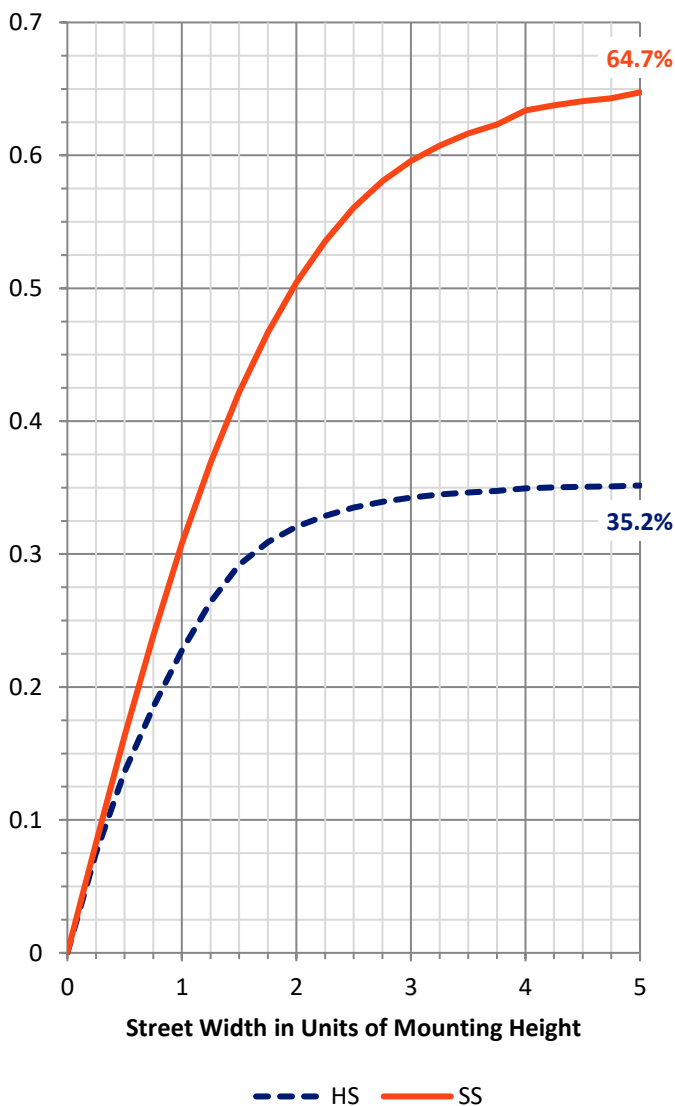
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25745.9	1.5	25747.4
	% Fixture	35.2	0.0	35.2
<b>Street Side</b>	Lumens	47343.0	51.6	47394.6
	% Fixture	64.7	0.1	64.8
<b>Total</b>	Lumens	73088.9	53.1	73142.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	634.1	0.9
10°-20°	1969.9	2.7
20°-30°	3415.3	4.7
30°-40°	5604.0	7.7
40°-50°	9347.5	12.8
50°-60°	15127.8	20.7
60°-70°	20881.2	28.5
70°-80°	15064.9	20.6
80°-90°	1044.2	1.4
90°-100°	45.3	0.1
100°-110°	7.6	0.0
110°-120°	0.3	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°	73088.9	99.9
0°-180°	73142.0	100.0

**Coefficient of Utilization**

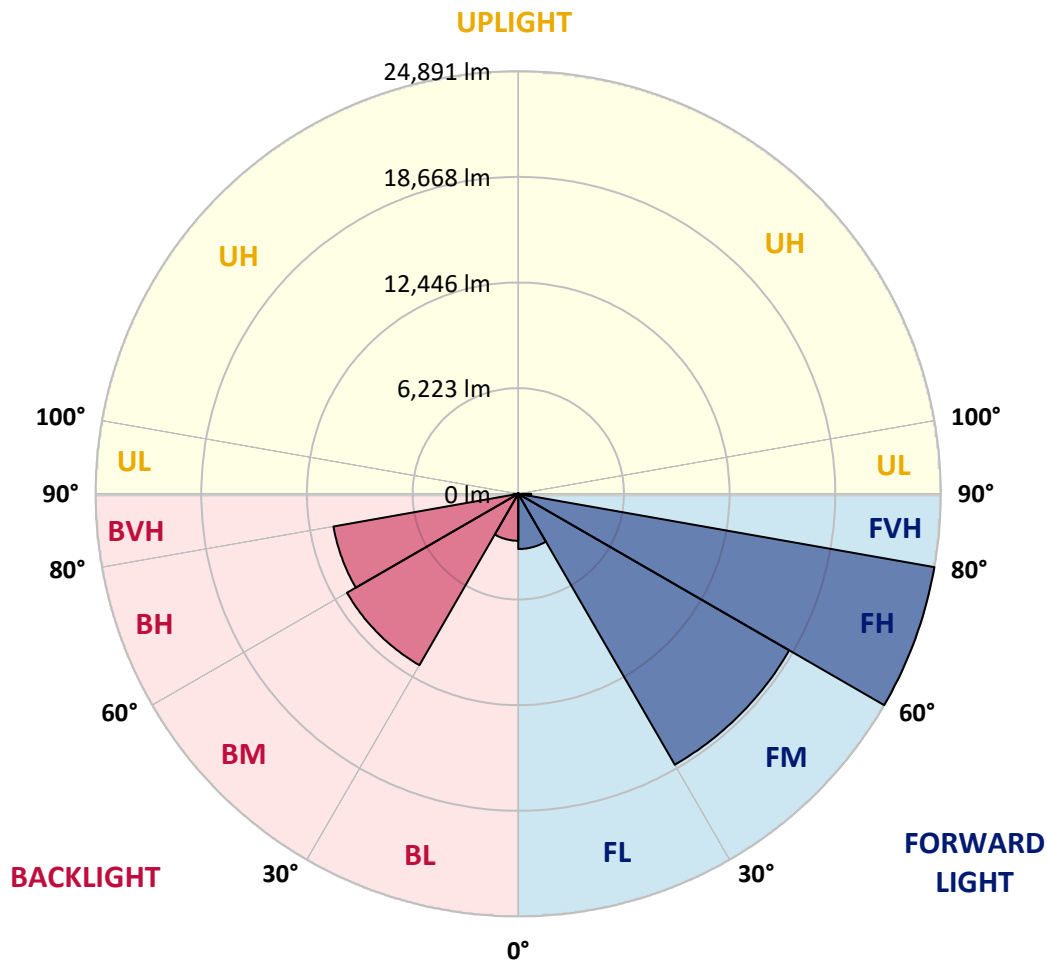


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3252.5	4.4			
FM	(30°-60°)	18429.9	25.2			
FH	(60°-80°)	24891.2	34.0			G5
FVH	(80°-90°)	769.4	1.1			G5
BL	(0°-30°)	2766.7	3.8	B4/5000		
BM	(30°-60°)	11649.4	15.9	B5		
BH	(60°-80°)	11055.0	15.1	B5		G5
BVH	(80°-90°)	274.8	0.4			G3/500
UL	(90°-100°)	45.3	0.1		U2/50	
UH	(100°-180°)	7.8	0.0		U1/10	

**BUG Rating: B5-U2-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6591.4	6591.4	6591.4	6591.4	6591.4	6591.4	6591.4	6591.4	6591.4	6591.4	6591.4
2.5°	6692.2	6653.0	6655.8	6695.0	6588.6	6627.8	6583.0	6622.2	6602.6	6616.6	6633.4
5°	6711.8	6664.2	6669.8	6717.4	6633.4	6664.2	6611.0	6633.4	6616.6	6633.4	6636.2
7.5°	6762.2	6714.6	6717.4	6753.8	6667.0	6689.4	6639.0	6650.2	6622.2	6653.0	6644.6
10°	6868.6	6823.8	6807.0	6837.8	6762.2	6765.0	6706.2	6717.4	6675.4	6717.4	6700.6
12.5°	7011.4	6949.8	6955.4	6972.2	6879.8	6885.4	6815.4	6832.2	6762.2	6821.0	6801.4
15°	7185.0	7109.4	7117.8	7145.8	7056.2	7047.8	6983.4	6983.4	6921.8	6966.6	6947.0
17.5°	7425.8	7341.8	7336.2	7355.8	7283.0	7283.0	7210.2	7201.8	7140.2	7176.6	7171.0
20°	7739.4	7644.2	7627.4	7663.8	7571.4	7582.6	7490.2	7481.8	7414.6	7437.0	7439.8
22.5°	8022.2	7946.6	7943.8	7999.8	7890.6	7904.6	7820.6	7798.2	7742.2	7773.0	7781.4
25°	8347.0	8335.8	8327.4	8347.0	8237.8	8237.8	8179.0	8159.4	8123.0	8145.4	8167.8
27.5°	8755.8	8750.2	8727.8	8730.6	8638.2	8652.2	8587.8	8576.6	8559.8	8557.0	8545.8
30°	9206.6	9181.4	9150.6	9170.2	9128.2	9142.2	9086.2	9049.8	9044.2	9047.0	9030.2
32.5°	9707.9	9674.3	9654.7	9688.3	9705.1	9744.3	9741.5	9640.7	9640.7	9682.7	9607.1
35°	10329.5	10276.3	10293.1	10337.9	10371.5	10472.3	10455.5	10385.5	10407.9	10427.5	10337.9
37.5°	11060.3	11023.9	11099.5	11183.5	11186.3	11329.1	11295.5	11312.3	11309.5	11284.3	11225.5
40°	11936.7	11877.9	11956.3	12020.7	11981.5	12152.3	12146.7	12222.3	12272.7	12359.5	12325.9
42.5°	12807.5	12762.7	12838.3	12978.3	12955.9	13151.9	13179.9	13297.5	13367.6	13502.0	13423.6
45°	13880.0	13854.8	13924.8	14034.0	14109.6	14370.0	14473.6	14524.0	14700.4	14862.8	14680.8
47.5°	15081.2	15114.8	15103.6	15302.4	15470.4	15786.8	15828.8	15991.2	16145.2	16324.4	16148.0
50°	16576.4	16520.4	16570.8	16761.2	17035.6	17265.3	17480.9	17713.3	17864.5	18049.3	17724.5
52.5°	18186.5	18234.1	18346.1	18640.1	18841.7	19113.3	19309.3	19586.5	19734.9	19894.5	19471.7
55°	20216.5	20255.7	20378.9	20681.3	20824.1	21132.2	21266.6	21543.8	21686.6	21756.6	21216.2
57.5°	22596.6	22465.0	22565.8	22722.6	22943.8	23277.0	23313.4	23573.8	23573.8	23663.4	22974.6
60°	24721.9	24632.2	24738.7	24962.7	25049.5	25351.9	25321.1	25533.9	25589.9	25522.7	24699.4
62.5°	26816.3	26833.1	26970.3	27043.1	27009.5	27188.7	27261.5	27485.5	27393.1	27415.5	26466.3
65°	29358.8	29398.0	29384.0	29249.6	28947.2	29300.0	29280.4	29636.0	29658.4	29860.0	28756.8
67.5°	32758.1	32584.5	32268.0	31727.6	31128.4	30921.2	30739.2	30915.6	31142.4	31106.0	29896.4
70°	31436.4	31153.6	30988.4	30518.0	29717.2	29302.8	28924.8	28955.6	29286.0	29316.8	28079.1
72.5°	27790.7	27647.9	27012.3	26600.7	26051.9	25732.7	25276.3	25379.9	25811.1	25883.9	24898.3
75°	21921.8	21790.2	21216.2	21081.8	20810.1	20967.0	20854.9	20896.9	21244.2	20925.0	20334.1
77.5°	14188.0	14218.8	14129.2	14434.4	14423.2	14431.6	14840.4	14882.4	15221.2	15025.2	14454.0
80°	6361.8	6454.2	6672.6	7115.0	6846.2	6991.8	7148.6	7101.0	7442.6	6669.8	6947.0
82.5°	1288.0	1332.8	1257.2	1313.2	1226.4	1271.2	1335.6	1237.6	1226.4	1136.8	1055.6
85°	663.6	672.0	669.2	655.2	576.8	532.0	512.4	431.2	389.2	380.8	352.8
87.5°	431.2	436.8	422.8	420.0	369.6	338.8	302.4	254.8	212.8	148.4	123.2
90°	263.2	263.2	249.2	235.2	210.0	187.6	151.2	109.2	64.4	25.2	14.0
92.5°	176.4	176.4	170.8	162.4	145.6	126.0	98.0	64.4	30.8	11.2	5.6
95°	112.0	112.0	109.2	106.4	95.2	81.2	61.6	39.2	19.6	8.4	2.8
97.5°	72.8	72.8	72.8	70.0	64.4	56.0	42.0	25.2	14.0	5.6	2.8
100°	44.8	47.6	44.8	44.8	42.0	36.4	28.0	16.8	11.2	5.6	2.8
102.5°	25.2	25.2	28.0	28.0	25.2	22.4	16.8	14.0	8.4	5.6	2.8
105°	11.2	11.2	14.0	14.0	14.0	11.2	11.2	8.4	5.6	5.6	2.8
107.5°	2.8	2.8	2.8	5.6	8.4	8.4	8.4	8.4	5.6	2.8	2.8
110°	0.0	0.0	0.0	2.8	2.8	5.6	5.6	5.6	5.6	2.8	2.8



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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°	6591.4	6591.4	6591.4	6591.4	6591.4	6591.4	6591.4	6591.4	6591.4	6591.4
2.5°	6616.6	6583.0	6608.2	6566.2	6555.0	6518.6	6588.6	6599.8	6594.2	6605.4
5°	6622.2	6580.2	6611.0	6569.0	6566.2	6527.0	6599.8	6602.6	6583.0	6591.4
7.5°	6639.0	6599.8	6622.2	6574.6	6580.2	6532.6	6616.6	6613.8	6602.6	6622.2
10°	6700.6	6655.8	6664.2	6613.8	6627.8	6577.4	6681.0	6686.6	6675.4	6711.8
12.5°	6807.0	6745.4	6765.0	6706.2	6717.4	6667.0	6793.0	6801.4	6801.4	6860.2
15°	6952.6	6888.2	6930.2	6854.6	6857.4	6781.8	6877.0	6877.0	6888.2	6969.4
17.5°	7165.4	7087.0	7143.0	7073.0	6636.2	6471.0	6795.8	6994.6	6664.2	6636.2
20°	7428.6	7392.2	7423.0	7308.2	6599.8	5843.8	5255.7	5224.9	5877.4	6202.2
22.5°	7750.6	7714.2	7728.2	7582.6	5891.4	5359.3	5350.9	5294.9	4480.1	4256.1
25°	8128.6	8109.0	8078.2	6857.4	6090.2	5580.5	5513.3	4782.5	4314.9	4356.9
27.5°	8534.6	8475.8	7437.0	7123.4	6395.4	5801.8	5420.9	4466.1	4449.3	4488.5
30°	8988.2	8677.4	7613.4	7507.0	6751.0	6076.2	4718.1	4662.1	4662.1	4723.7
32.5°	9565.1	8103.4	8103.4	8047.4	7190.6	5334.1	4967.3	4933.7	4972.9	4998.1
35°	9478.2	8716.6	8806.2	8781.0	7787.0	5432.1	5367.7	5311.7	5320.1	5320.1
37.5°	9506.3	9537.1	9643.5	9534.3	6793.0	5857.8	5754.2	5743.0	5751.4	5771.0
40°	10385.5	10402.3	10441.5	10200.7	7299.8	6353.4	6210.6	6182.6	6210.6	6252.6
42.5°	11331.9	11379.5	11424.3	9276.6	8008.2	6916.2	6773.4	6720.2	6770.6	6815.4
45°	12451.9	12524.7	11838.7	10097.1	8809.0	7557.4	7406.2	7341.8	7372.6	7411.8
47.5°	13712.0	13826.8	11163.9	11141.5	9749.9	8316.2	8142.6	8019.4	8067.0	8064.2
50°	15134.4	13213.5	12334.3	12320.3	10799.9	9161.8	8982.6	8870.6	8907.0	8879.0
52.5°	16671.6	13574.8	13602.8	13600.0	11897.5	10071.9	9906.7	9766.7	9478.2	9744.3
55°	18245.3	14823.6	14930.0	14913.2	13048.3	11012.7	10836.3	10704.7	6994.6	5908.2
57.5°	19810.5	16128.4	16162.0	16201.2	14241.2	11919.9	11144.3	10237.1	3990.1	3970.5
60°	21356.2	17371.7	17438.9	17461.3	14885.2	9867.5	4555.7	4639.7	1206.8	1442.0
62.5°	22957.8	18598.1	18659.7	18640.1	15526.4	9175.8	4785.3	4690.1	112.0	103.6
65°	25001.9	20135.3	20048.5	19984.1	16537.2	9791.9	5140.9	5115.7	36.4	25.2
67.5°	25718.7	20485.3	20308.9	20286.5	16682.8	9923.5	5168.9	5149.3	36.4	25.2
70°	24094.6	19155.3	18852.9	18861.3	15523.6	9282.2	4821.7	4793.7	33.6	25.2
72.5°	21101.4	16918.0	16792.0	16125.6	13443.2	8165.0	4275.7	4169.3	33.6	22.4
75°	17324.1	13667.2	13387.2	12639.5	10699.1	6490.6	3357.3	3220.1	30.8	19.6
77.5°	12026.3	9584.7	9049.8	8288.2	7157.0	4303.7	2256.9	2080.5	28.0	19.6
80°	5451.7	3934.1	3953.7	3029.7	2427.7	1458.8	716.8	649.6	25.2	16.8
82.5°	949.2	700.0	658.0	635.6	529.2	358.4	218.4	187.6	22.4	11.2
85°	330.4	266.0	294.0	347.2	308.0	215.6	134.4	128.8	14.0	5.6
87.5°	112.0	117.6	137.2	165.2	145.6	84.0	50.4	36.4	2.8	0.0
90°	11.2	14.0	14.0	14.0	8.4	0.0	0.0	0.0	0.0	0.0
92.5°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	2.8	2.8	2.8	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°
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)