

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: P579580

Luminaire Tested: **CST-CA10-630-760-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579580  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/18/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA10-630-760-U-T5-HSS-HM-EX120  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (10) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 67613 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B5 - U3 - G5

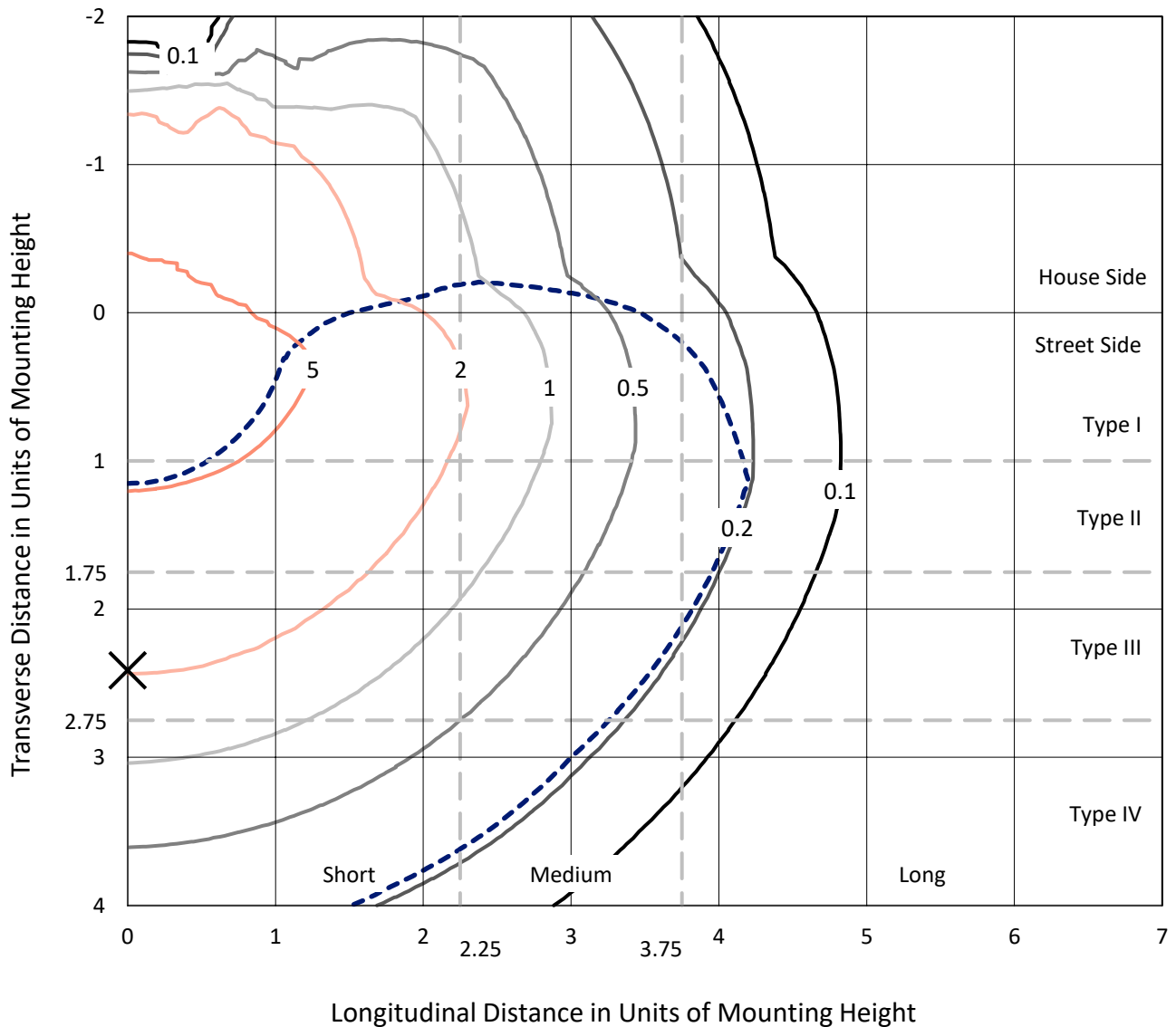
Input Watts (W): 631.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

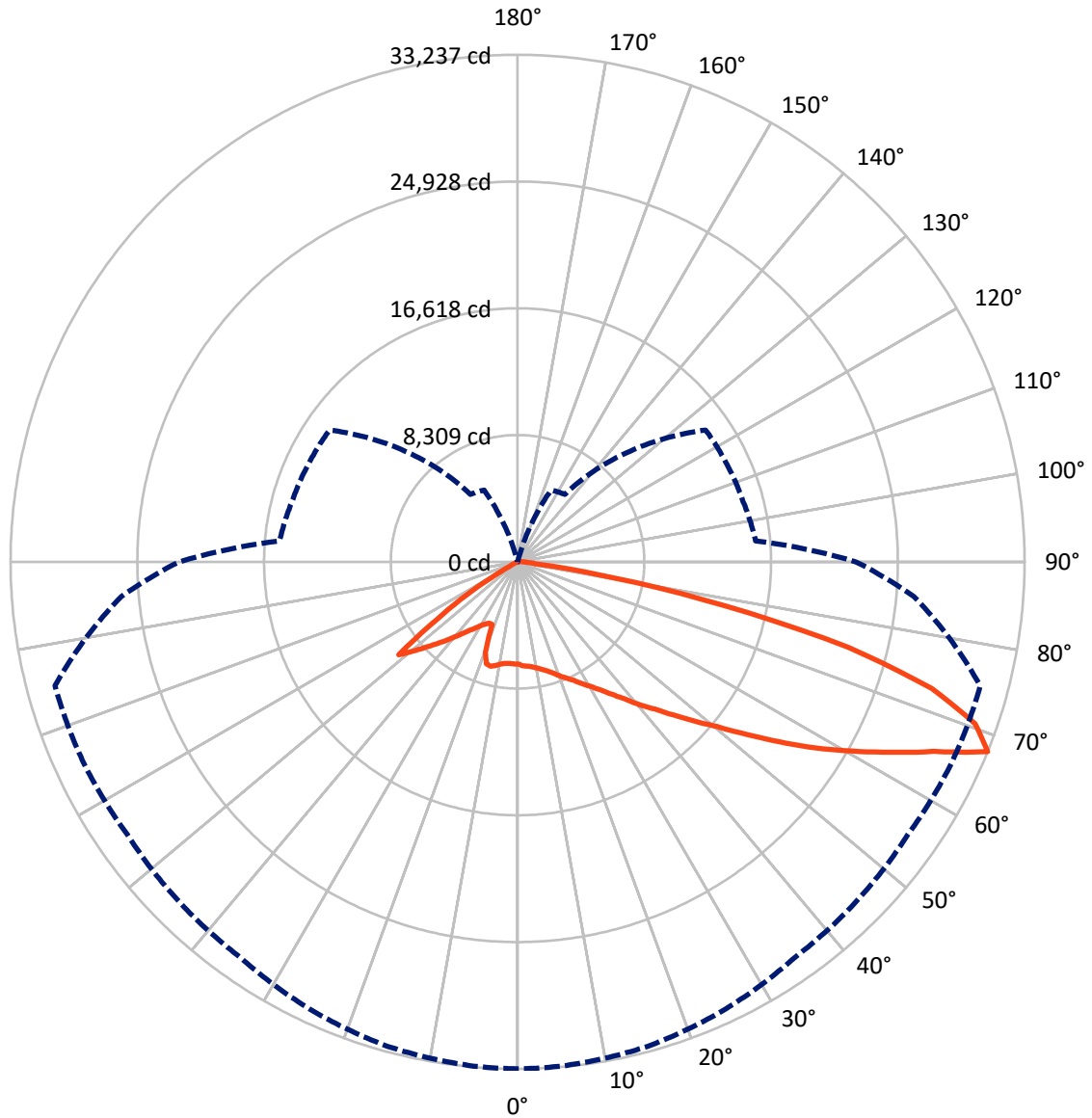
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 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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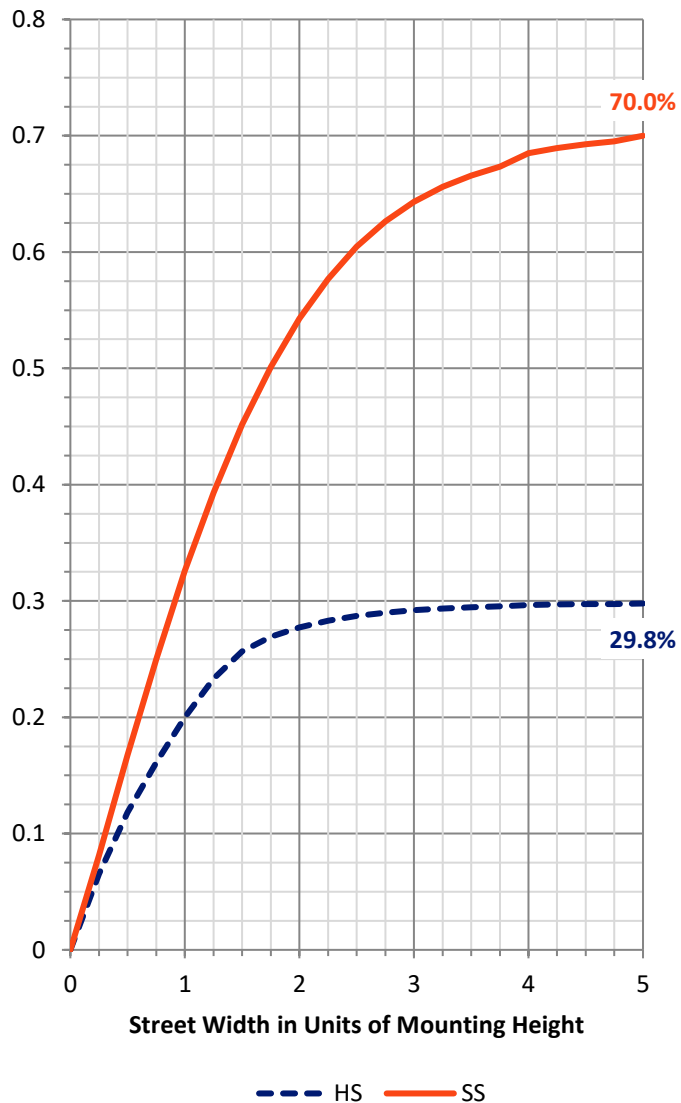
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20182.9	6.8	20189.6
	% Fixture	29.9	0.0	29.9
<b>Street Side</b>	Lumens	47347.3	76.1	47423.4
	% Fixture	70.0	0.1	70.1
<b>Total</b>	Lumens	67530.1	82.9	67613.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	645.9	1.0
10°-20°	1999.6	3.0
20°-30°	3355.7	5.0
30°-40°	5441.5	8.0
40°-50°	8891.9	13.2
50°-60°	13935.3	20.6
60°-70°	18663.6	27.6
70°-80°	13603.2	20.1
80°-90°	993.4	1.5
90°-100°	63.5	0.1
100°-110°	18.1	0.0
110°-120°	1.3	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°	67530.1	99.9
0°-180°	67613.0	100.0

**Coefficient of Utilization**

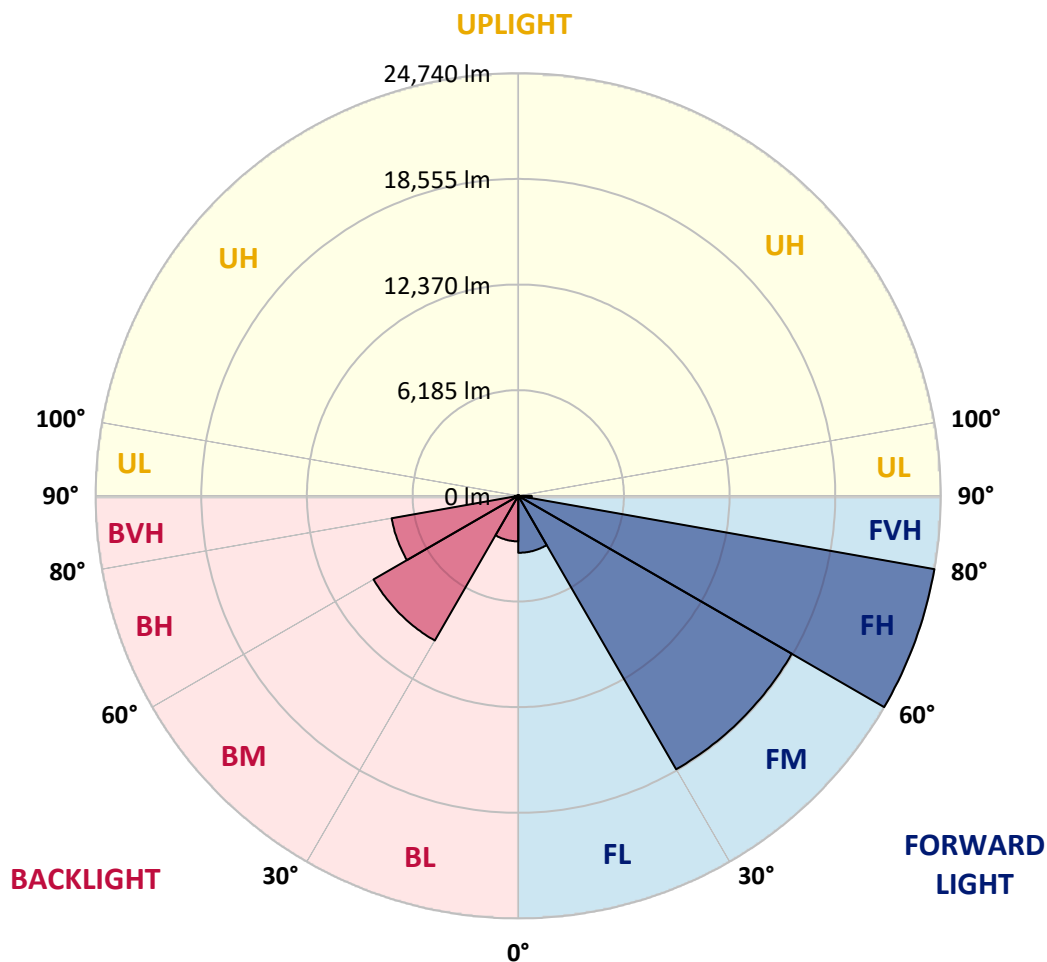


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3335.0	4.9			
FM (30°-60°)	18486.6	27.3			
FH (60°-80°)	24740.0	36.6			G5
FVH (80°-90°)	785.6	1.2			G5
BL (0°-30°)	2666.2	3.9	B4/5000		
BM (30°-60°)	9782.1	14.5	B5		
BH (60°-80°)	7526.8	11.1	B5		G5
BVH (80°-90°)	207.8	0.3			G2/225
UL (90°-100°)	63.5	0.1		U3/500	
UH (100°-180°)	19.4	0.0		U2/50	

**BUG Rating: B5-U3-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6699.7	6699.7	6699.7	6699.7	6699.7	6699.7	6699.7	6699.7	6699.7	6699.7	6699.7
2.5°	6827.6	6787.8	6790.6	6827.6	6716.7	6753.7	6705.4	6742.3	6716.7	6725.3	6742.3
5°	6870.2	6827.6	6830.4	6875.9	6776.4	6807.7	6742.3	6762.2	6739.5	6750.8	6750.8
7.5°	6955.5	6907.2	6904.3	6932.8	6830.4	6841.8	6782.1	6785.0	6750.8	6773.6	6762.2
10°	7083.4	7043.6	7015.2	7032.2	6941.3	6935.6	6858.9	6861.7	6819.1	6844.6	6824.7
12.5°	7239.7	7185.7	7180.1	7185.7	7086.3	7063.5	6983.9	6989.6	6912.9	6952.7	6929.9
15°	7438.7	7353.4	7353.4	7384.7	7256.8	7239.7	7143.1	7148.8	7069.2	7100.5	7077.7
17.5°	7683.2	7600.7	7586.5	7609.3	7498.4	7475.7	7376.2	7370.5	7282.4	7290.9	7271.0
20°	7998.7	7916.2	7882.1	7939.0	7799.7	7782.7	7663.3	7651.9	7558.1	7532.5	7521.1
22.5°	8291.5	8226.1	8209.0	8271.6	8126.6	8112.4	7998.7	7984.5	7896.4	7859.4	7634.8
25°	8621.2	8607.0	8601.3	8621.2	8484.7	8456.3	8368.2	8348.3	8274.4	8228.9	7956.0
27.5°	9047.5	9041.9	9024.8	9027.7	8902.6	8877.0	8794.6	8780.4	8703.6	8652.4	8302.8
30°	9493.8	9493.8	9456.9	9476.8	9414.2	9374.4	9309.1	9257.9	9209.6	9155.6	8715.0
32.5°	10008.3	10005.5	9971.3	10031.0	9985.6	9985.6	9945.8	9891.8	9806.5	9780.9	9246.5
35°	10670.6	10628.0	10613.7	10710.4	10696.2	10721.8	10707.5	10650.7	10579.6	10519.9	9871.9
37.5°	11403.9	11392.6	11435.2	11494.9	11526.2	11594.4	11551.8	11548.9	11537.5	11386.9	9704.2
40°	12307.8	12259.5	12319.2	12350.5	12327.7	12438.6	12401.6	12432.9	12518.2	11307.3	9692.8
42.5°	13208.9	13166.3	13208.9	13362.4	13328.3	13461.9	13444.8	13567.1	13615.4	11475.0	10480.1
45°	14317.5	14269.1	14303.3	14485.2	14502.2	14664.2	14752.4	14868.9	14891.6	12560.8	11429.5
47.5°	15590.9	15511.3	15576.7	15662.0	15920.6	16074.1	16159.4	16301.5	16446.5	13868.4	12509.7
50°	16995.1	16989.4	17060.4	17208.2	17503.9	17657.4	17805.2	17953.0	18191.7	15326.5	13720.6
52.5°	18780.1	18743.2	18865.4	19004.7	19266.2	19502.1	19678.3	19831.8	20087.7	16801.8	15030.9
55°	20821.0	20693.1	20926.2	21162.1	21273.0	21551.5	21673.8	21801.7	22046.1	18353.8	15795.5
57.5°	23023.9	22992.7	23154.7	23239.9	23478.7	23652.1	23717.5	23856.8	23853.9	19968.3	17097.4
60°	25192.7	25158.6	25349.1	25400.2	25590.7	25747.0	25724.3	25849.3	25894.8	21483.3	18373.7
62.5°	27475.2	27418.4	27594.6	27606.0	27492.3	27745.2	27719.7	27824.8	27785.0	22964.2	19630.0
65°	29970.9	30013.5	30070.4	29837.3	29564.4	29783.3	29777.6	29976.6	30118.7	25033.5	21312.8
67.5°	33236.9	33182.9	32890.1	32327.3	31665.0	31443.3	31207.4	31352.3	31392.1	26062.5	22174.0
70°	31827.0	31707.6	31576.9	31002.7	30204.0	29641.2	29274.5	29428.0	29590.0	24629.9	20826.7
72.5°	28390.5	28094.9	27486.6	26980.6	26520.1	25971.6	25525.3	25792.5	26147.8	21847.1	18441.9
75°	22398.6	22122.9	21679.4	21335.5	21088.2	21082.5	21062.6	21270.1	21219.0	17739.8	14994.0
77.5°	13871.2	14448.2	14857.5	14564.8	14667.1	14456.7	14920.1	15192.9	15440.2	12717.2	10682.0
80°	6404.1	6551.9	7276.7	7089.1	6938.4	6895.8	6924.2	7398.9	7538.2	5707.7	4781.0
82.5°	1461.0	1401.3	1452.5	1347.3	1341.6	1279.1	1287.6	1287.6	1242.2	1051.7	881.2
85°	739.0	756.1	761.8	730.5	645.2	579.9	537.2	454.8	392.3	335.4	284.2
87.5°	494.6	508.8	517.3	474.7	426.4	372.4	338.3	275.7	218.9	136.4	105.2
90°	338.3	335.4	326.9	304.1	272.9	233.1	187.6	130.8	76.7	28.4	19.9
92.5°	241.6	235.9	233.1	213.2	190.4	159.2	122.2	82.4	42.6	19.9	11.4
95°	159.2	156.3	156.3	145.0	127.9	105.2	82.4	54.0	31.3	17.1	11.4
97.5°	110.9	108.0	108.0	102.3	91.0	76.7	56.8	37.0	25.6	17.1	11.4
100°	76.7	76.7	76.7	71.1	65.4	54.0	42.6	28.4	22.7	17.1	11.4
102.5°	51.2	51.2	54.0	51.2	45.5	37.0	28.4	22.7	19.9	14.2	11.4
105°	34.1	34.1	34.1	34.1	31.3	25.6	22.7	19.9	17.1	14.2	11.4
107.5°	22.7	22.7	22.7	22.7	19.9	17.1	17.1	17.1	14.2	14.2	11.4
110°	14.2	14.2	14.2	17.1	14.2	14.2	14.2	14.2	14.2	11.4	11.4



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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°	6699.7	6699.7	6699.7	6699.7	6699.7	6699.7	6699.7	6699.7	6699.7	6699.7
2.5°	6728.1	6688.3	6708.2	6668.4	6651.4	6614.4	6685.5	6691.1	6685.5	6696.8
5°	6736.6	6691.1	6713.9	6668.4	6659.9	6617.2	6688.3	6688.3	6671.3	6679.8
7.5°	6756.5	6708.2	6725.3	6671.3	6671.3	6620.1	6705.4	6699.7	6685.5	6705.4
10°	6824.7	6767.9	6767.9	6716.7	6722.4	6668.4	6773.6	6773.6	6762.2	6796.3
12.5°	6929.9	6858.9	6861.7	6790.6	6802.0	6759.4	6887.3	6893.0	6893.0	6949.8
15°	7066.4	6958.3	6969.7	6893.0	6915.7	6864.5	6978.2	6972.6	6986.8	7069.2
17.5°	7234.1	7114.7	7015.2	6765.1	6617.2	6622.9	6961.2	7117.5	6935.6	6989.6
20°	7305.1	6725.3	6409.7	6318.8	6298.9	5983.4	5338.1	5437.6	6045.9	6310.3
22.5°	6827.6	6642.8	6611.6	6495.0	5633.8	5395.0	5434.8	5377.9	4781.0	4442.8
25°	7060.7	6938.4	6867.4	5841.3	5648.0	5605.3	5576.9	5036.8	4388.8	4420.0
27.5°	7390.4	7231.2	6378.5	5866.8	5903.8	5838.4	5673.5	4530.9	4511.0	4562.1
30°	7779.8	7379.0	6216.5	6168.1	6210.8	6125.5	4769.6	4724.2	4724.2	4775.3
32.5°	8257.3	6694.0	6597.3	6603.0	6574.6	5608.2	5019.8	5008.4	5042.5	5085.2
35°	8123.7	7140.3	7148.8	7197.1	7131.7	5485.9	5412.0	5369.4	5397.8	5414.9
37.5°	7862.2	7811.1	7811.1	7757.1	6088.5	5915.2	5835.6	5829.9	5827.0	5827.0
40°	8521.7	8473.4	8413.7	8319.9	6370.0	6415.4	6296.0	6281.8	6290.4	6321.6
42.5°	9272.1	9252.2	9246.5	7140.3	6955.5	6989.6	6861.7	6824.7	6824.7	6895.8
45°	10156.1	10130.5	9502.3	7632.0	7600.7	7640.5	7498.4	7410.3	7458.6	7509.8
47.5°	11170.9	11170.9	8413.7	8368.2	8368.2	8390.9	8248.8	8129.4	8177.8	8194.8
50°	12282.3	10545.5	9257.9	9215.3	9255.0	9243.7	9095.9	7987.3	9013.4	9022.0
52.5°	12592.1	10255.6	10184.5	10136.2	10184.5	10176.0	10022.5	6662.7	9749.6	9888.9
55°	11162.3	11170.9	11156.7	11085.6	11136.8	11116.9	10966.2	7273.9	7188.6	6406.9
57.5°	12069.1	12080.5	12074.8	12063.4	12108.9	8797.4	11358.5	6571.8	4013.6	4016.4
60°	13055.4	12998.6	12981.5	12955.9	10980.4	6236.4	4732.7	457.6	1569.0	1546.3
62.5°	13950.8	13930.9	13871.2	13857.0	9317.6	4911.8	4798.1	105.2	82.4	79.6
65°	15195.8	15019.6	14971.2	14820.6	9931.6	5230.1	5122.1	31.3	2.8	0.0
67.5°	15659.1	15301.0	15127.6	15048.0	10104.9	5395.0	5187.5	31.3	2.8	0.0
70°	14783.6	14340.2	14121.3	14033.2	9442.6	5042.5	4837.9	31.3	2.8	0.0
72.5°	13109.4	12782.5	12694.4	12413.0	8325.6	4425.7	4246.6	31.3	0.0	0.0
75°	10753.0	10633.6	10525.6	10227.2	6767.9	3516.1	3356.9	28.4	0.0	0.0
77.5°	7825.3	7649.1	7450.1	7126.0	4567.8	2296.7	2214.3	25.6	0.0	0.0
80°	3527.5	3382.5	3334.2	2828.2	1620.2	747.6	659.5	22.7	0.0	0.0
82.5°	685.0	616.8	585.5	562.8	363.8	201.8	176.2	17.1	0.0	0.0
85°	233.1	258.7	301.3	332.6	204.7	122.2	102.3	11.4	0.0	0.0
87.5°	91.0	122.2	147.8	153.5	76.7	51.2	28.4	5.7	0.0	0.0
90°	17.1	22.7	19.9	14.2	8.5	2.8	0.0	0.0	0.0	0.0
92.5°	8.5	11.4	8.5	8.5	5.7	2.8	0.0	0.0	0.0	0.0
95°	11.4	11.4	11.4	8.5	5.7	2.8	0.0	0.0	0.0	0.0
97.5°	11.4	11.4	11.4	8.5	5.7	2.8	0.0	0.0	0.0	0.0
100°	11.4	11.4	11.4	8.5	5.7	2.8	0.0	0.0	0.0	0.0
102.5°	11.4	11.4	11.4	8.5	5.7	2.8	0.0	0.0	0.0	0.0
105°	11.4	14.2	11.4	8.5	5.7	2.8	0.0	0.0	0.0	0.0
107.5°	11.4	14.2	11.4	8.5	5.7	2.8	0.0	0.0	0.0	0.0
110°	11.4	14.2	11.4	8.5	5.7	2.8	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)