

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: P579582

Luminaire Tested: **CST-CA10-630-760-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579582  
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-CA10-630-760-U-T5-HSS-HM-EX90  
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: 74249 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B5 - U2 - G5

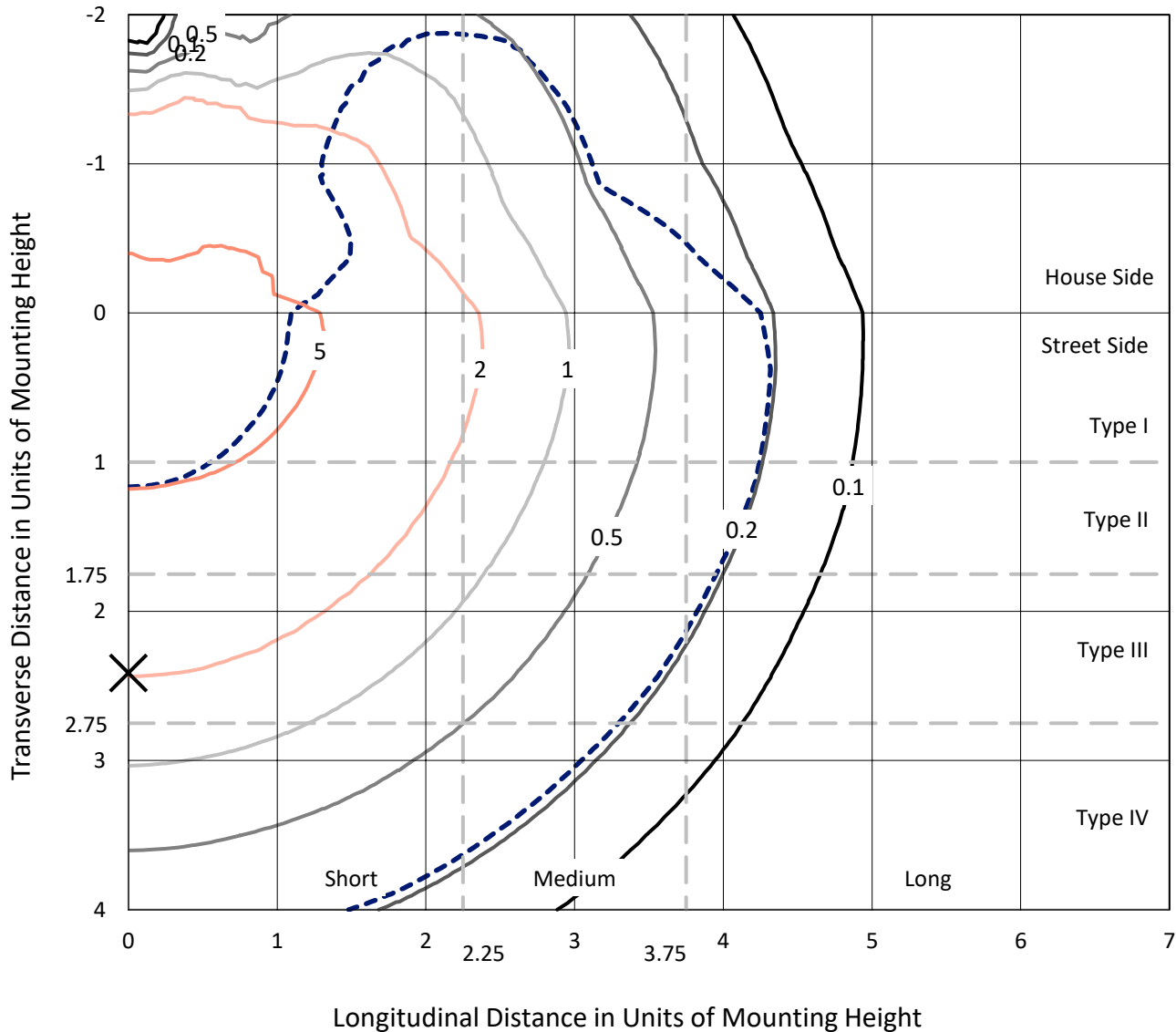
Input Watts (W): 631.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

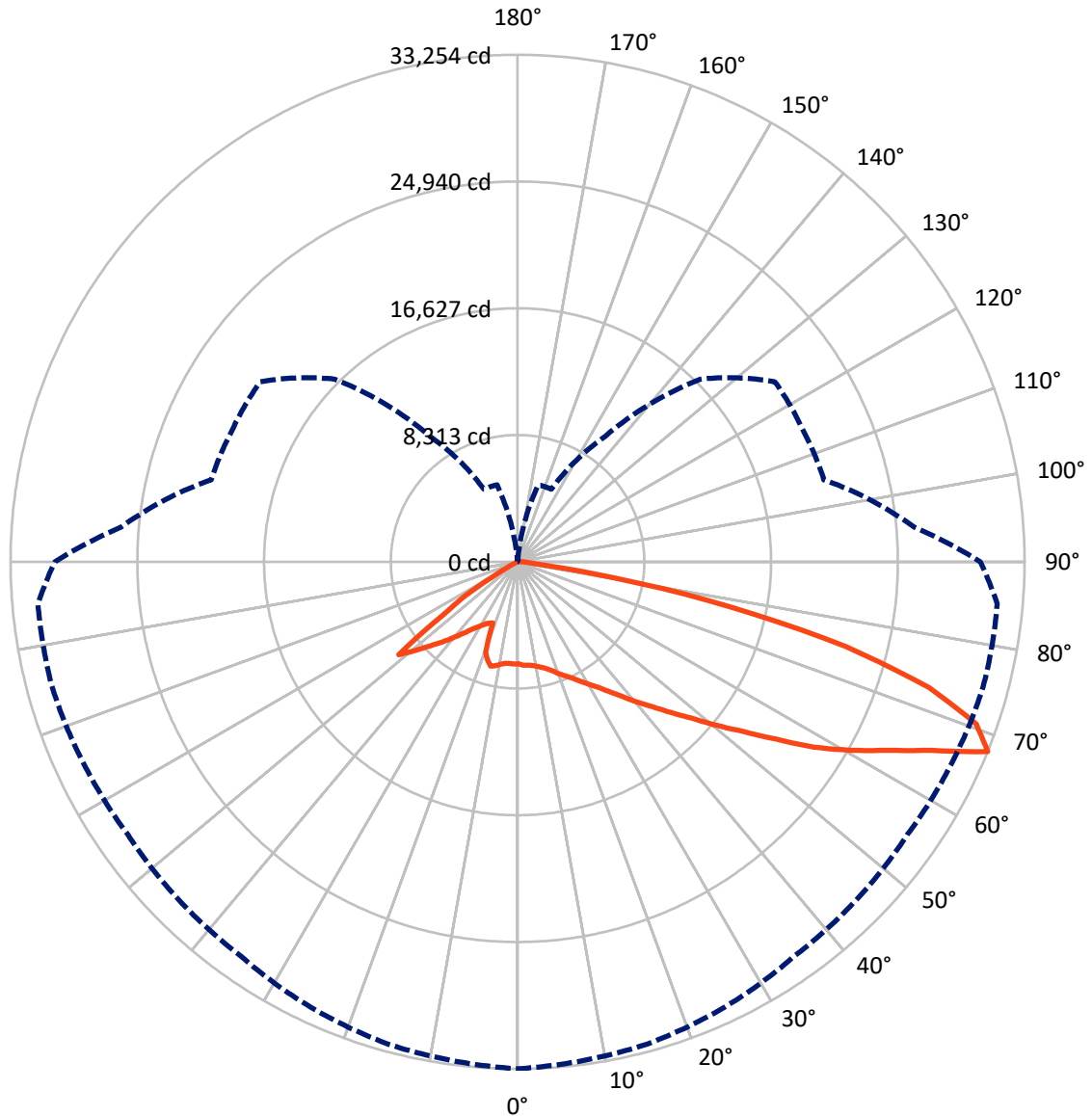
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 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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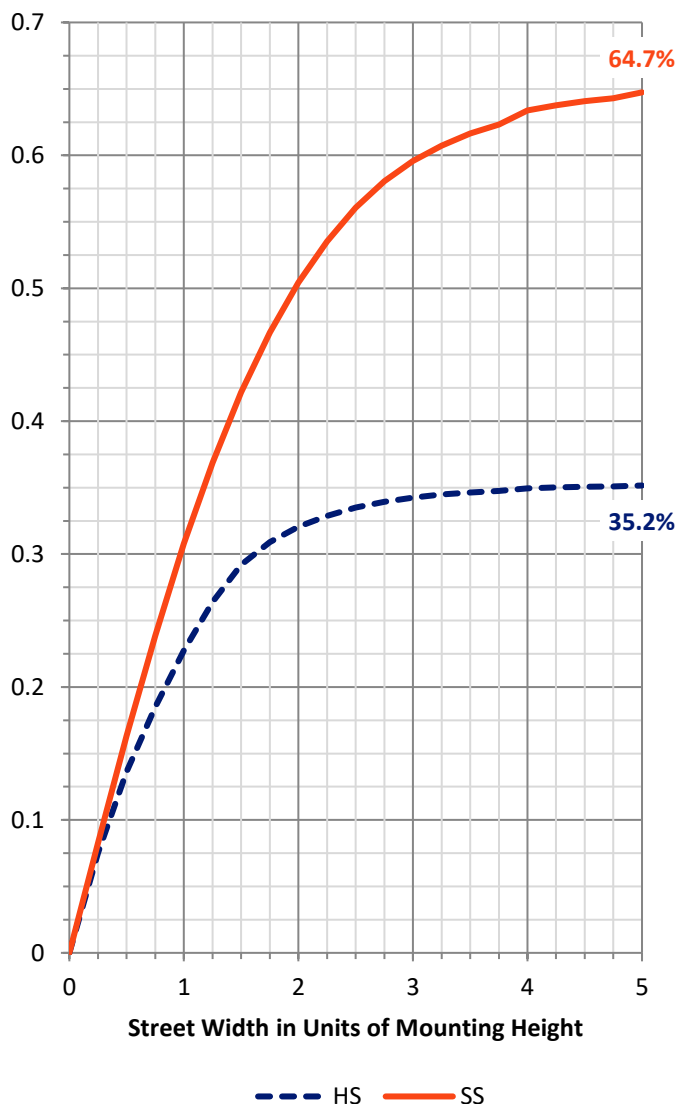
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26135.5	1.5	26137.1
	% Fixture	35.2	0.0	35.2
<b>Street Side</b>	Lumens	48059.5	52.4	48111.9
	% Fixture	64.7	0.1	64.8
<b>Total</b>	Lumens	74195.1	53.9	74249.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	643.7	0.9
10°-20°	1999.7	2.7
20°-30°	3467.0	4.7
30°-40°	5688.8	7.7
40°-50°	9489.0	12.8
50°-60°	15356.8	20.7
60°-70°	21197.3	28.5
70°-80°	15292.9	20.6
80°-90°	1060.0	1.4
90°-100°	45.9	0.1
100°-110°	7.7	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°	74195.1	99.9
0°-180°	74249.0	100.0

**Coefficient of Utilization**

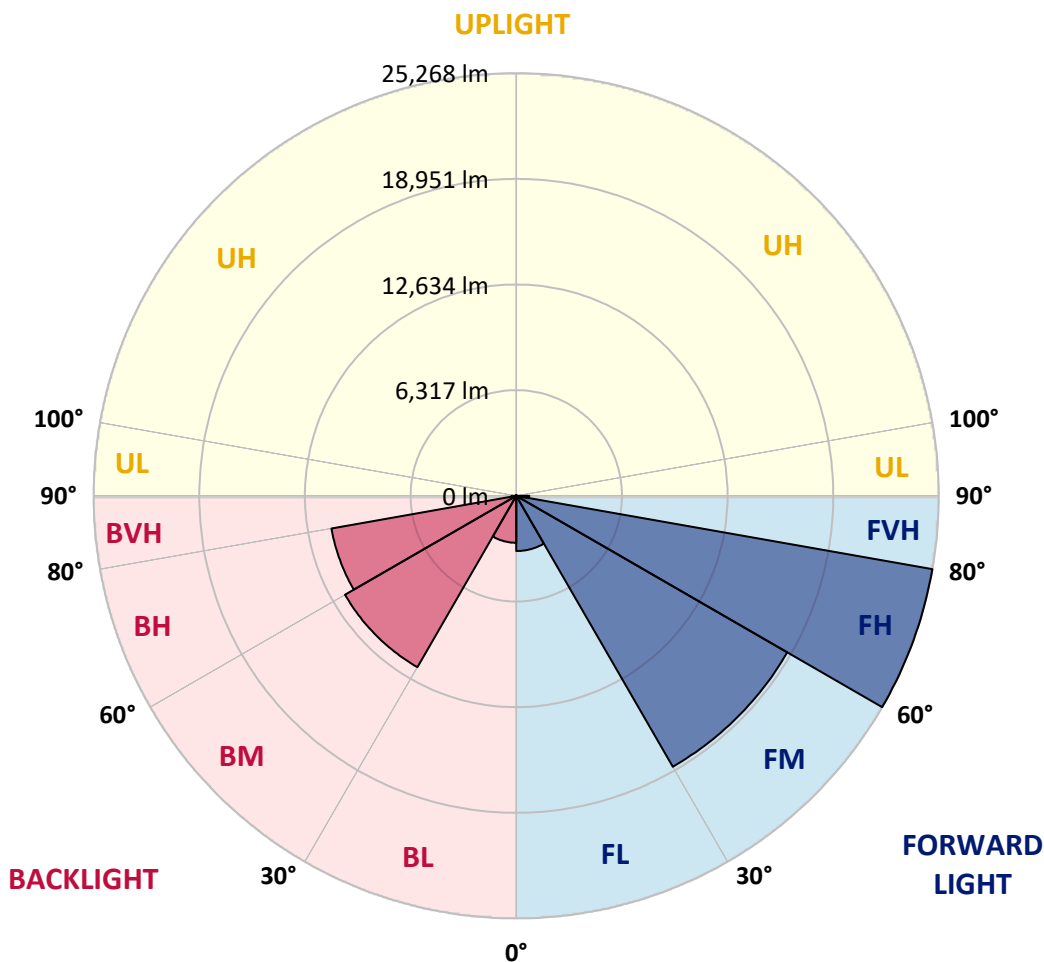


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3301.8	4.4			
FM (30°-60°)	18708.9	25.2			
FH (60°-80°)	25267.9	34.0			G5
FVH (80°-90°)	781.0	1.1			G5
BL (0°-30°)	2808.6	3.8	B4/5000		
BM (30°-60°)	11825.7	15.9	B5		
BH (60°-80°)	11222.3	15.1	B5		G5
BVH (80°-90°)	279.0	0.4			G3/500
UL (90°-100°)	45.9	0.1		U2/50	
UH (100°-180°)	8.0	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°	6691.1	6691.1	6691.1	6691.1	6691.1	6691.1	6691.1	6691.1	6691.1	6691.1	6691.1
2.5°	6793.5	6753.7	6756.5	6796.3	6688.3	6728.1	6682.6	6722.4	6702.5	6716.7	6733.8
5°	6813.4	6765.0	6770.7	6819.0	6733.8	6765.0	6711.0	6733.8	6716.7	6733.8	6736.6
7.5°	6864.5	6816.2	6819.0	6856.0	6767.9	6790.6	6739.5	6750.8	6722.4	6753.7	6745.1
10°	6972.5	6927.1	6910.0	6941.3	6864.5	6867.4	6807.7	6819.0	6776.4	6819.0	6802.0
12.5°	7117.5	7055.0	7060.7	7077.7	6983.9	6989.6	6918.5	6935.6	6864.5	6924.2	6904.3
15°	7293.7	7217.0	7225.5	7253.9	7163.0	7154.5	7089.1	7089.1	7026.5	7072.0	7052.1
17.5°	7538.2	7452.9	7447.2	7467.1	7393.2	7393.2	7319.3	7310.8	7248.3	7285.2	7279.5
20°	7856.5	7759.9	7742.8	7779.8	7686.0	7697.4	7603.6	7595.0	7526.8	7549.6	7552.4
22.5°	8143.6	8066.9	8064.0	8120.9	8010.0	8024.2	7939.0	7916.2	7859.4	7890.6	7899.2
25°	8473.4	8462.0	8453.5	8473.4	8362.5	8362.5	8302.8	8282.9	8246.0	8268.7	8291.4
27.5°	8888.3	8882.7	8859.9	8862.8	8769.0	8783.2	8717.8	8706.4	8689.4	8686.5	8675.2
30°	9346.0	9320.4	9289.1	9309.0	9266.4	9280.6	9223.8	9186.8	9181.1	9184.0	9166.9
32.5°	9854.8	9820.7	9800.8	9834.9	9851.9	9891.7	9888.9	9786.6	9786.6	9829.2	9752.5
35°	10485.8	10431.8	10448.9	10494.3	10528.4	10630.8	10613.7	10542.7	10565.4	10585.3	10494.3
37.5°	11227.7	11190.7	11267.5	11352.8	11355.6	11500.6	11466.5	11483.5	11480.7	11455.1	11395.4
40°	12117.4	12057.7	12137.3	12202.6	12162.9	12336.2	12330.6	12407.3	12458.5	12546.6	12512.5
42.5°	13001.4	12955.9	13032.6	13174.8	13152.0	13351.0	13379.4	13498.8	13569.9	13706.3	13626.7
45°	14090.0	14064.5	14135.5	14246.4	14323.1	14587.5	14692.6	14743.8	14922.9	15087.7	14903.0
47.5°	15309.4	15343.6	15332.2	15534.0	15704.6	16025.7	16068.4	16233.2	16389.6	16571.5	16392.4
50°	16827.3	16770.5	16821.6	17014.9	17293.5	17526.6	17745.4	17981.4	18134.8	18322.4	17992.7
52.5°	18461.7	18510.1	18623.7	18922.2	19126.9	19402.6	19601.6	19883.0	20033.6	20195.6	19766.4
55°	20522.5	20562.3	20687.4	20994.4	21139.3	21452.0	21588.4	21869.8	22014.8	22085.9	21537.3
57.5°	22938.6	22805.0	22907.3	23066.5	23291.1	23629.3	23666.3	23930.6	23930.6	24021.6	23322.3
60°	25096.0	25005.1	25113.1	25340.5	25428.6	25735.6	25704.3	25920.3	25977.2	25909.0	25073.3
62.5°	27222.2	27239.2	27378.5	27452.4	27418.3	27600.2	27674.1	27901.5	27807.7	27830.5	26866.9
65°	29803.1	29842.9	29828.7	29692.3	29385.3	29743.4	29723.5	30084.5	30107.3	30311.9	29192.0
67.5°	33253.9	33077.6	32756.4	32207.8	31599.5	31389.2	31204.4	31383.5	31613.8	31576.8	30348.9
70°	31912.2	31625.1	31457.4	30979.9	30166.9	29746.3	29362.5	29393.8	29729.2	29760.5	28504.1
72.5°	28211.3	28066.4	27421.1	27003.3	26446.2	26122.1	25658.8	25764.0	26201.7	26275.6	25275.1
75°	22253.6	22120.0	21537.3	21400.8	21125.1	21284.3	21170.6	21213.2	21565.7	21241.6	20641.9
77.5°	14402.7	14434.0	14343.0	14652.8	14641.5	14650.0	15065.0	15107.6	15451.6	15252.6	14672.7
80°	6458.1	6551.9	6773.6	7222.7	6949.8	7097.6	7256.8	7208.5	7555.2	6770.7	7052.1
82.5°	1307.5	1353.0	1276.3	1333.1	1245.0	1290.5	1355.8	1256.4	1245.0	1154.0	1071.6
85°	673.7	682.2	679.3	665.1	585.5	540.1	520.2	437.7	395.1	386.6	358.1
87.5°	437.7	443.4	429.2	426.4	375.2	343.9	307.0	258.7	216.0	150.6	125.1
90°	267.2	267.2	253.0	238.8	213.2	190.4	153.5	110.9	65.4	25.6	14.2
92.5°	179.1	179.1	173.4	164.9	147.8	127.9	99.5	65.4	31.3	11.4	5.7
95°	113.7	113.7	110.9	108.0	96.6	82.4	62.5	39.8	19.9	8.5	2.8
97.5°	73.9	73.9	73.9	71.1	65.4	56.8	42.6	25.6	14.2	5.7	2.8
100°	45.5	48.3	45.5	45.5	42.6	37.0	28.4	17.1	11.4	5.7	2.8
102.5°	25.6	25.6	28.4	28.4	25.6	22.7	17.1	14.2	8.5	5.7	2.8
105°	11.4	11.4	14.2	14.2	14.2	11.4	11.4	8.5	5.7	5.7	2.8
107.5°	2.8	2.8	2.8	5.7	8.5	8.5	8.5	8.5	5.7	2.8	2.8
110°	0.0	0.0	0.0	2.8	2.8	5.7	5.7	5.7	5.7	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°	6691.1	6691.1	6691.1	6691.1	6691.1	6691.1	6691.1	6691.1	6691.1	6691.1
2.5°	6716.7	6682.6	6708.2	6665.6	6654.2	6617.2	6688.3	6699.7	6694.0	6705.3
5°	6722.4	6679.8	6711.0	6668.4	6665.6	6625.8	6699.7	6702.5	6682.6	6691.1
7.5°	6739.5	6699.7	6722.4	6674.1	6679.8	6631.4	6716.7	6713.9	6702.5	6722.4
10°	6802.0	6756.5	6765.0	6713.9	6728.1	6676.9	6782.1	6787.8	6776.4	6813.4
12.5°	6910.0	6847.5	6867.4	6807.7	6819.0	6767.9	6895.8	6904.3	6904.3	6964.0
15°	7057.8	6992.4	7035.1	6958.3	6961.2	6884.4	6981.1	6981.1	6992.4	7074.9
17.5°	7273.8	7194.2	7251.1	7180.0	6736.6	6568.9	6898.6	7100.4	6765.0	6736.6
20°	7541.0	7504.1	7535.3	7418.8	6699.7	5932.2	5335.3	5304.0	5966.3	6296.0
22.5°	7867.9	7831.0	7845.2	7697.4	5980.5	5440.5	5431.9	5375.1	4547.9	4320.5
25°	8251.6	8231.7	8200.5	6961.2	6182.3	5665.0	5596.8	4854.9	4380.2	4422.9
27.5°	8663.8	8604.1	7549.6	7231.2	6492.2	5889.6	5503.0	4533.7	4516.7	4556.5
30°	9124.3	8808.8	7728.6	7620.6	6853.2	6168.1	4789.5	4732.7	4732.7	4795.2
32.5°	9709.8	8226.1	8226.1	8169.2	7299.4	5414.9	5042.5	5008.4	5048.2	5073.8
35°	9621.7	8848.6	8939.5	8913.9	7904.9	5514.4	5449.0	5392.1	5400.7	5400.7
37.5°	9650.1	9681.4	9789.4	9678.6	6895.8	5946.4	5841.2	5829.9	5838.4	5858.3
40°	10542.7	10559.7	10599.5	10355.1	7410.3	6449.5	6304.6	6276.1	6304.6	6347.2
42.5°	11503.4	11551.7	11597.2	9417.0	8129.4	7020.9	6875.9	6821.9	6873.1	6918.5
45°	12640.4	12714.3	12017.9	10249.9	8942.4	7671.8	7518.3	7452.9	7484.2	7524.0
47.5°	13919.5	14036.0	11332.9	11310.1	9897.4	8442.1	8265.9	8140.8	8189.1	8186.3
50°	15363.5	13413.5	12521.0	12506.8	10963.3	9300.5	9118.6	9004.9	9041.8	9013.4
52.5°	16924.0	13780.2	13808.6	13805.8	12077.6	10224.3	10056.6	9914.5	9621.7	9891.7
55°	18521.4	15047.9	15156.0	15138.9	13245.8	11179.4	11000.3	10866.7	7100.4	5997.6
57.5°	20110.4	16372.5	16406.6	16446.4	14456.7	12100.3	11313.0	10392.0	4050.5	4030.6
60°	21679.4	17634.6	17702.8	17725.5	15110.5	10016.8	4624.7	4709.9	1225.1	1463.9
62.5°	23305.3	18879.6	18942.1	18922.2	15761.4	9314.7	4857.8	4761.1	113.7	105.2
65°	25380.3	20440.1	20352.0	20286.6	16787.5	9940.1	5218.7	5193.2	37.0	25.6
67.5°	26107.9	20795.4	20616.3	20593.6	16935.3	10073.7	5247.2	5227.3	37.0	25.6
70°	24459.3	19445.2	19138.2	19146.8	15758.6	9422.7	4894.7	4866.3	34.1	25.6
72.5°	21420.7	17174.1	17046.2	16369.7	13646.6	8288.6	4340.4	4232.4	34.1	22.7
75°	17586.3	13874.0	13589.8	12830.8	10861.0	6588.8	3408.1	3268.8	31.3	19.9
77.5°	12208.3	9729.7	9186.8	8413.7	7265.3	4368.8	2291.0	2111.9	28.4	19.9
80°	5534.3	3993.6	4013.5	3075.5	2464.4	1480.9	727.7	659.4	25.6	17.1
82.5°	963.6	710.6	668.0	645.2	537.2	363.8	221.7	190.4	22.7	11.4
85°	335.4	270.0	298.5	352.5	312.7	218.9	136.4	130.8	14.2	5.7
87.5°	113.7	119.4	139.3	167.7	147.8	85.3	51.2	37.0	2.8	0.0
90°	11.4	14.2	14.2	14.2	8.5	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)