

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: P579437

Luminaire Tested: **CST-CA10-630-730-U-T5-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-3)
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-EX180
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: 55871 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U3 - G5

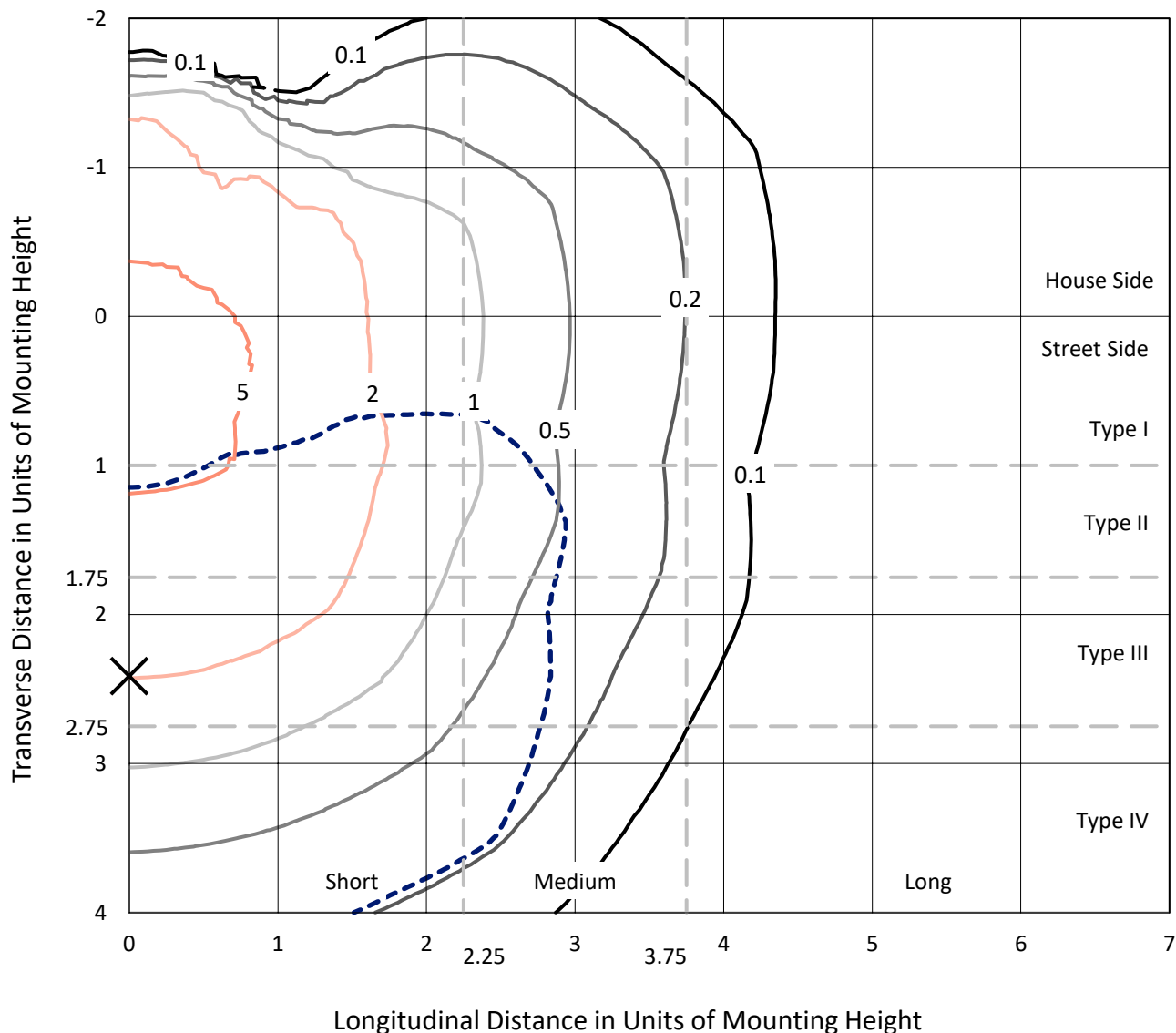
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

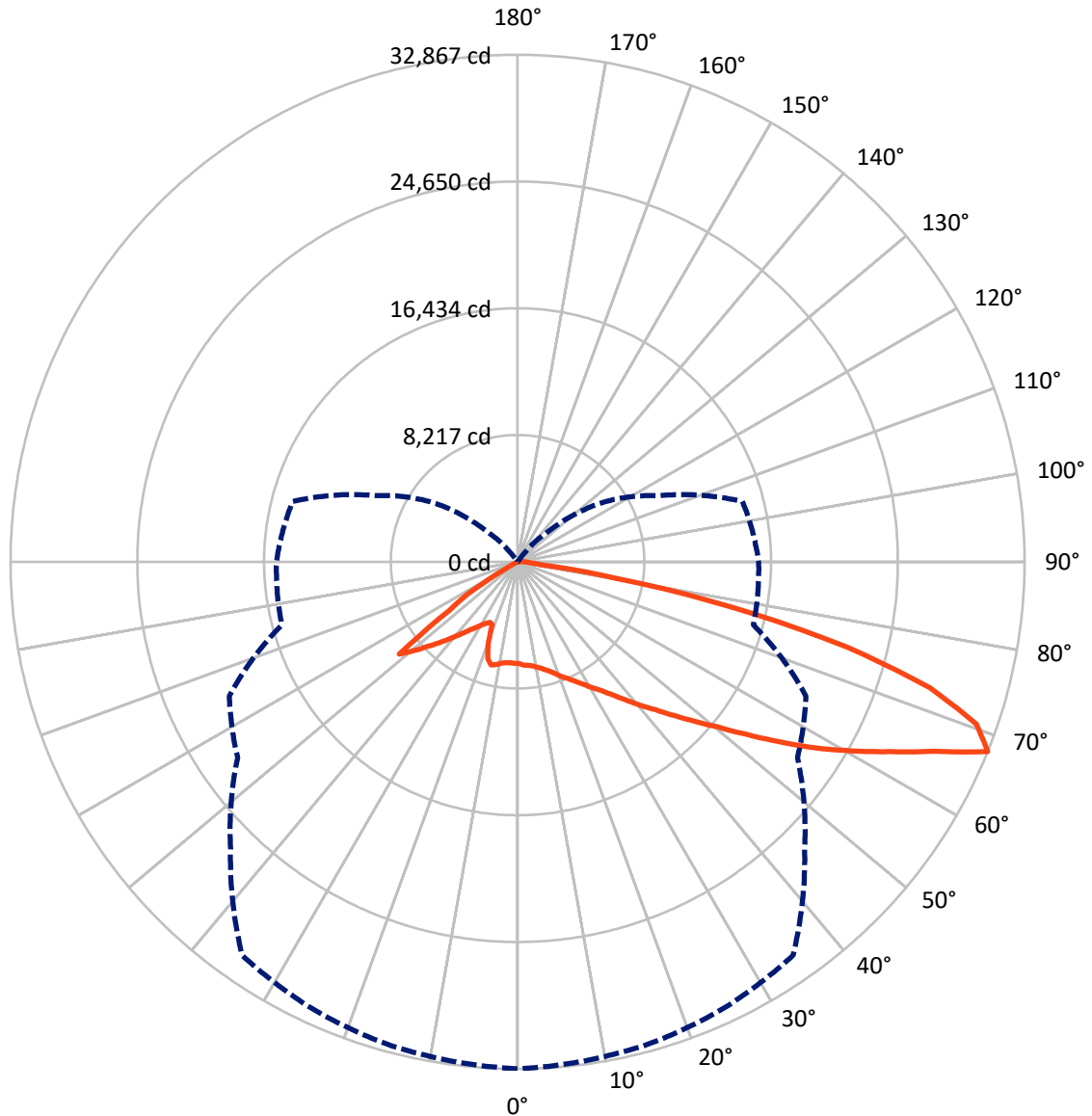
✕ Max cd
 - - - 1/2 Max cd



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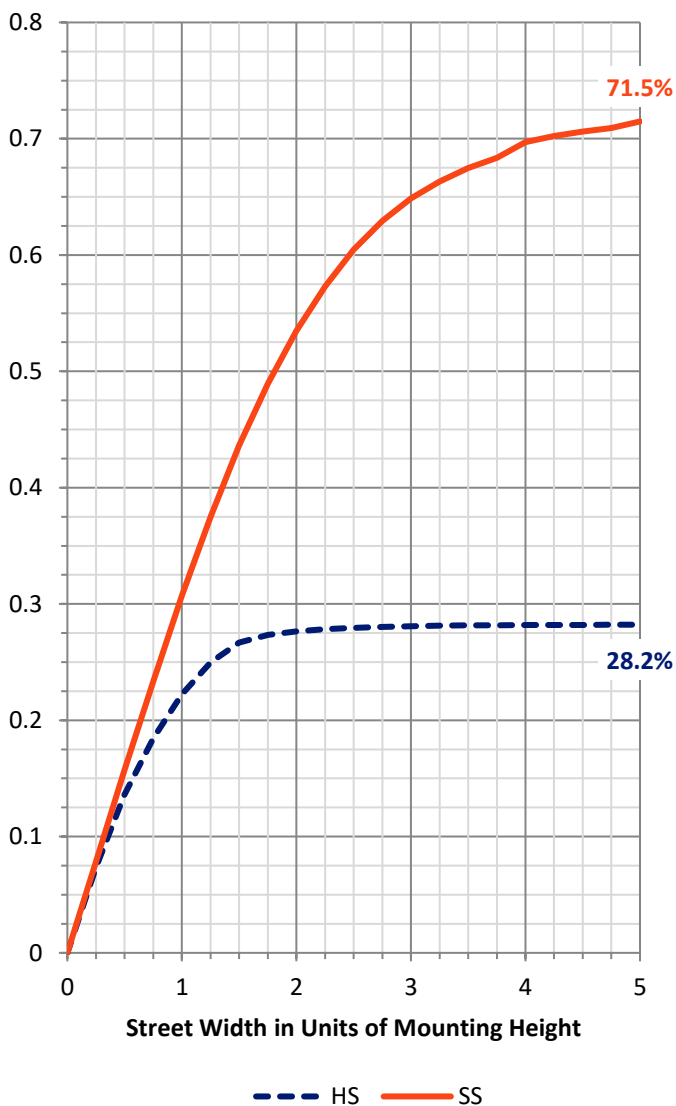
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15834.9	0.2	15835.1
	% Fixture	28.3	0.0	28.3
Street Side	Lumens	39964.7	71.1	40035.9
	% Fixture	71.5	0.1	71.7
Total	Lumens	55799.6	71.4	55871.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.6	1.1
10°-20°	1953.5	3.5
20°-30°	3234.7	5.8
30°-40°	5092.0	9.1
40°-50°	7969.0	14.3
50°-60°	11505.9	20.6
60°-70°	14253.8	25.5
70°-80°	10380.7	18.6
80°-90°	775.5	1.4
90°-100°	60.9	0.1
100°-110°	10.2	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°	55799.6	99.9
0°-180°	55871.0	100.0

Coefficient of Utilization

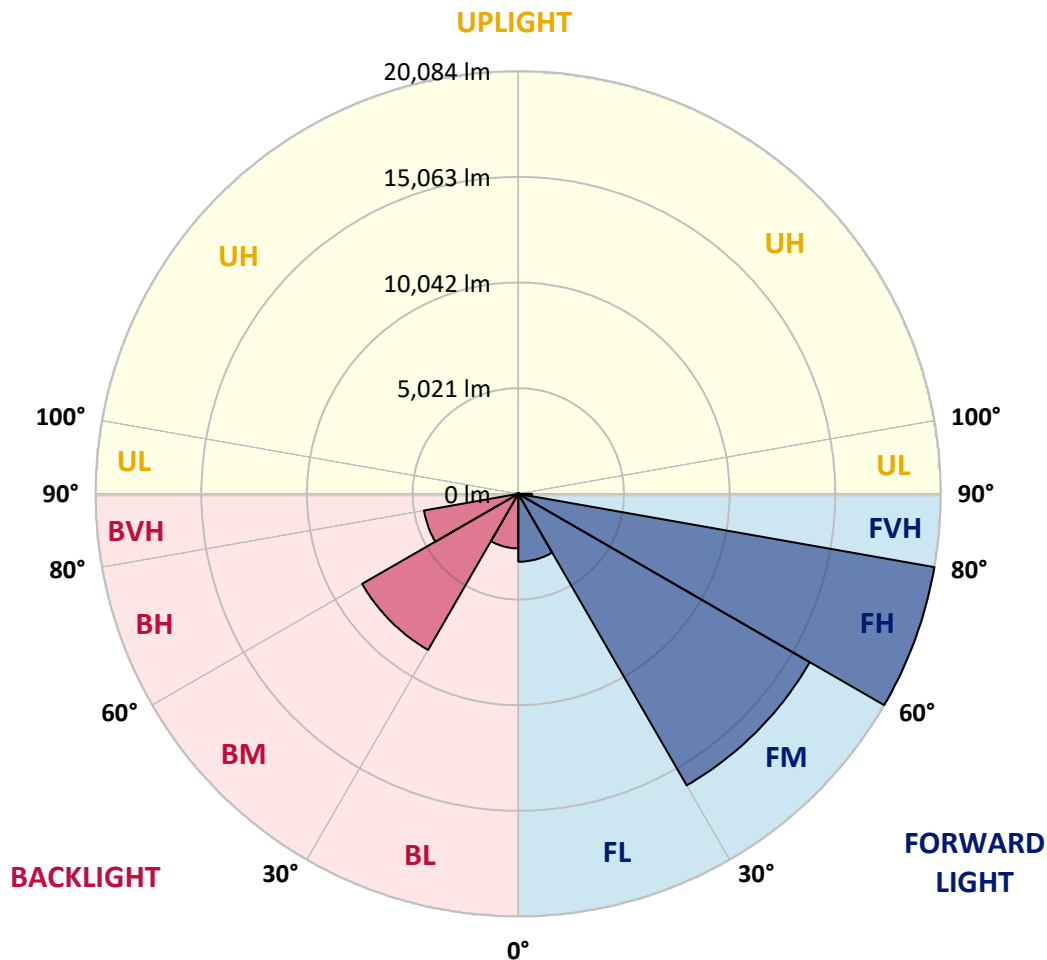


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3227.0	5.8			
FM (30°-60°)	15999.8	28.6			
FH (60°-80°)	20083.8	35.9			G5
FVH (80°-90°)	654.1	1.2			G4/750
BL (0°-30°)	2595.8	4.6	B4/5000		
BM (30°-60°)	8567.0	15.3	B5		
BH (60°-80°)	4550.7	8.1	B4/5000		G4/5000
BVH (80°-90°)	121.4	0.2			G2/225
UL (90°-100°)	60.9	0.1		U3/500	
UH (100°-180°)	10.5	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°	6580.2	6580.2	6580.2	6580.2	6580.2	6580.2	6580.2	6580.2	6580.2	6580.2	6580.2
2.5°	6700.6	6664.2	6664.2	6703.4	6594.2	6627.8	6583.0	6622.2	6599.8	6611.0	6625.0
5°	6739.8	6697.8	6700.6	6748.2	6650.2	6678.2	6625.0	6644.6	6625.0	6633.4	6633.4
7.5°	6812.6	6776.2	6776.2	6804.2	6706.2	6714.6	6667.0	6667.0	6641.8	6661.4	6644.6
10°	6949.8	6910.6	6891.0	6905.0	6818.2	6807.0	6742.6	6742.6	6703.4	6734.2	6709.0
12.5°	7115.0	7059.0	7053.4	7056.2	6958.2	6938.6	6865.8	6868.6	6795.8	6837.8	6807.0
15°	7313.8	7243.8	7238.2	7249.4	7145.8	7109.4	7028.2	7028.2	6947.0	6969.4	6927.4
17.5°	7568.6	7487.4	7473.4	7493.0	7389.4	7355.8	7260.6	7243.8	7154.2	7137.4	7101.0
20°	7904.6	7812.2	7784.2	7826.2	7694.6	7663.8	7549.0	7512.6	7392.2	7193.4	6933.0
22.5°	8207.0	8134.2	8117.4	8145.4	8025.0	7994.2	7882.2	7806.6	7515.4	7115.0	6874.2
25°	8551.4	8523.4	8515.0	8498.2	8389.0	8335.8	8229.4	8123.0	7462.2	6913.4	6907.8
27.5°	8977.0	8963.0	8923.8	8909.8	8789.4	8755.8	8615.8	7929.8	7271.8	7232.6	7210.2
30°	9441.8	9413.8	9374.6	9377.4	9296.2	9234.6	8901.4	7759.0	7638.6	7638.6	7579.8
32.5°	9957.1	9926.2	9887.0	9895.4	9861.8	9808.6	8806.2	8209.8	8117.4	8142.6	8069.8
35°	10595.5	10545.1	10531.1	10564.7	10567.5	10223.1	8974.2	8823.0	8750.2	8733.4	8459.0
37.5°	11340.3	11298.3	11348.7	11427.1	11337.5	10329.5	9643.4	9595.8	9523.0	9117.0	8467.4
40°	12233.5	12157.9	12219.5	12269.9	12211.1	10962.3	10346.3	10363.1	10298.7	9094.6	8375.0
42.5°	13118.3	13045.5	13098.7	13224.7	13202.3	11746.3	11203.1	11239.5	10589.9	9147.8	9091.8
45°	14213.2	14188.0	14171.2	14274.8	14361.6	12684.3	12219.5	12216.7	10382.7	9993.5	9943.1
47.5°	15453.6	15420.0	15428.4	15560.0	15691.6	13804.3	13420.7	12295.1	10917.5	10956.7	10911.9
50°	16836.8	16800.4	16909.6	17100.0	17167.2	15061.6	14591.2	12082.3	12031.9	12073.9	11998.3
52.5°	18592.5	18511.3	18679.3	18883.7	18970.5	16548.4	14655.6	13339.5	13255.5	13263.9	13023.1
55°	20588.9	20524.5	20675.7	20905.3	21034.1	18208.9	15994.0	14563.2	14512.8	13084.7	11782.7
57.5°	22759.0	22686.2	22887.8	22955.0	22988.6	19925.3	17340.8	15890.4	13557.9	11947.9	11875.1
60°	24887.0	24808.6	25063.4	25074.6	25172.6	21638.9	18620.5	17170.0	13062.3	12849.5	12787.9
62.5°	27121.5	27023.5	27247.5	27239.1	27045.9	23207.0	19888.9	18399.3	13947.2	13779.1	13683.9
65°	29602.3	29529.5	29686.3	29434.3	29050.7	24828.2	21204.9	19737.7	14977.6	14946.8	14924.4
67.5°	32867.2	32724.4	32408.0	31870.4	31136.8	26315.1	22145.8	20619.7	15814.8	15672.0	15627.2
70°	31554.0	31386.0	31145.2	30554.4	29806.7	24917.8	20633.7	19286.9	14787.2	14792.8	14686.4
72.5°	27939.1	27647.9	27421.1	26592.3	26180.7	21762.1	17979.3	16738.8	12790.7	13028.7	12978.3
75°	22039.4	21742.5	21370.1	21045.3	21000.5	17651.6	14496.0	13602.7	10197.9	10371.5	10497.5
77.5°	14286.0	14176.8	14647.2	14339.2	14616.4	12155.1	10354.7	9587.4	7028.2	7467.8	7409.0
80°	6538.2	6412.2	7168.2	6955.4	7059.0	5969.8	5059.7	4860.9	3180.9	3203.3	3270.5
82.5°	1478.4	1428.0	1481.2	1360.8	1327.2	1122.8	988.4	896.0	562.8	596.4	627.2
85°	809.2	809.2	798.0	742.0	635.6	523.6	414.4	319.2	173.6	190.4	187.6
87.5°	568.4	554.4	551.6	492.8	422.8	358.4	285.6	204.4	98.0	67.2	61.6
90°	389.2	383.6	364.0	327.6	282.8	232.4	173.6	100.8	42.0	19.6	14.0
92.5°	282.8	277.2	263.2	232.4	193.2	156.8	114.8	67.2	33.6	14.0	2.8
95°	187.6	184.8	176.4	151.2	126.0	100.8	72.8	42.0	28.0	11.2	2.8
97.5°	128.8	126.0	117.6	100.8	81.2	64.4	44.8	30.8	22.4	8.4	2.8
100°	86.8	84.0	78.4	64.4	50.4	39.2	28.0	22.4	16.8	8.4	2.8
102.5°	56.0	53.2	47.6	39.2	28.0	22.4	19.6	16.8	11.2	5.6	2.8
105°	33.6	30.8	25.2	19.6	16.8	14.0	14.0	11.2	8.4	2.8	2.8
107.5°	16.8	14.0	11.2	11.2	11.2	8.4	8.4	8.4	5.6	2.8	0.0
110°	2.8	2.8	5.6	5.6	5.6	5.6	5.6	5.6	5.6	2.8	0.0



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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°	6580.2	6580.2	6580.2	6580.2	6580.2	6580.2	6580.2	6580.2	6580.2	6580.2
2.5°	6611.0	6566.2	6591.4	6552.2	6543.8	6501.8	6569.0	6577.4	6571.8	6583.0
5°	6619.4	6571.8	6599.8	6552.2	6552.2	6507.4	6571.8	6571.8	6555.0	6560.6
7.5°	6641.8	6594.2	6613.8	6560.6	6563.4	6510.2	6588.6	6580.2	6566.2	6585.8
10°	6706.2	6653.0	6650.2	6599.8	6611.0	6555.0	6653.0	6653.0	6639.0	6675.4
12.5°	6809.8	6731.4	6717.4	6655.8	6678.2	6630.6	6751.0	6756.6	6759.4	6818.2
15°	6919.0	6823.8	6837.8	6765.0	6756.6	6731.4	6840.6	6835.0	6832.2	6913.4
17.5°	7073.0	6625.0	6552.2	6501.8	6490.6	6429.0	6529.8	6723.0	6622.2	6566.2
20°	6829.4	6594.2	6305.8	6207.8	6188.2	5653.3	5230.5	5420.9	5678.5	5700.9
22.5°	6608.2	6524.2	6501.8	6347.8	5493.7	5314.5	5331.3	5261.3	4650.9	4384.9
25°	6882.6	6809.8	6714.6	5773.7	5572.1	5507.7	5488.1	4771.3	4289.7	4320.5
27.5°	7187.8	7106.6	6277.8	5787.7	5832.5	5742.9	5300.5	4452.1	4424.1	4477.3
30°	7568.6	6919.0	6126.6	6098.6	6140.6	6025.8	4709.7	4648.1	4639.7	4695.7
32.5°	8002.6	6672.6	6529.8	6529.8	6510.2	5269.7	4961.7	4919.7	4942.1	5000.9
35°	7840.2	7059.0	7042.2	7112.2	6641.8	5406.9	5364.9	5292.1	5308.9	5328.5
37.5°	7661.0	7694.6	7703.0	7666.6	4844.1	5798.9	5765.3	5751.3	5734.5	5740.1
40°	8327.4	8349.8	8341.4	8008.2	5227.7	5874.5	6219.0	6193.8	6191.0	6224.6
42.5°	9105.8	9167.4	9119.8	7064.6	5740.1	4939.3	6742.6	6728.6	6723.0	6793.0
45°	9982.3	10041.1	9041.4	7565.8	6286.2	5112.9	6779.0	7299.8	7341.8	7403.4
47.5°	10931.5	10920.3	8344.2	8335.8	6927.4	5594.5	5636.5	7983.0	8053.0	8075.4
50°	12023.5	10228.7	9136.6	8828.6	7652.6	6135.0	5975.4	7325.0	8870.6	8893.0
52.5°	11791.1	10119.5	10046.7	7745.0	8302.2	6731.4	6574.6	6532.6	9195.4	9735.8
55°	10990.3	11074.3	10970.7	8498.2	6087.4	7263.4	7165.4	7123.4	6840.6	5415.3
57.5°	11880.7	11905.9	11816.3	9189.8	6191.0	4527.7	7053.4	6051.0	3931.3	3911.7
60°	12804.7	12846.7	8800.6	6751.0	3967.7	1514.8	361.2	380.8	1086.4	954.8
62.5°	13686.7	13728.7	9315.8	6168.6	2506.1	112.0	72.8	50.4	56.0	56.0
65°	14837.6	14854.4	9971.1	6529.8	2604.1	28.0	8.4	0.0	0.0	0.0
67.5°	15434.0	15089.6	10136.3	6695.0	2674.1	16.8	5.6	0.0	0.0	0.0
70°	14532.4	14162.8	9436.2	6275.0	2492.1	14.0	2.8	0.0	0.0	0.0
72.5°	12804.7	12625.5	8470.2	5563.7	2206.5	8.4	2.8	0.0	0.0	0.0
75°	10612.3	10374.3	7022.6	4636.9	1825.6	5.6	0.0	0.0	0.0	0.0
77.5°	7549.0	7577.0	4894.5	3379.7	1243.2	5.6	0.0	0.0	0.0	0.0
80°	3304.1	3379.7	2144.9	1551.2	439.6	2.8	0.0	0.0	0.0	0.0
82.5°	630.0	579.6	280.0	221.2	56.0	0.0	0.0	0.0	0.0	0.0
85°	207.2	226.8	103.6	84.0	25.2	0.0	0.0	0.0	0.0	0.0
87.5°	72.8	92.4	30.8	25.2	5.6	0.0	0.0	0.0	0.0	0.0
90°	11.2	11.2	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
95°	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
100°	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
105°	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
110°	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°
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)