

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: P579586

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

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579586
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-CA10-760-760-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: 78062 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U3 - G5

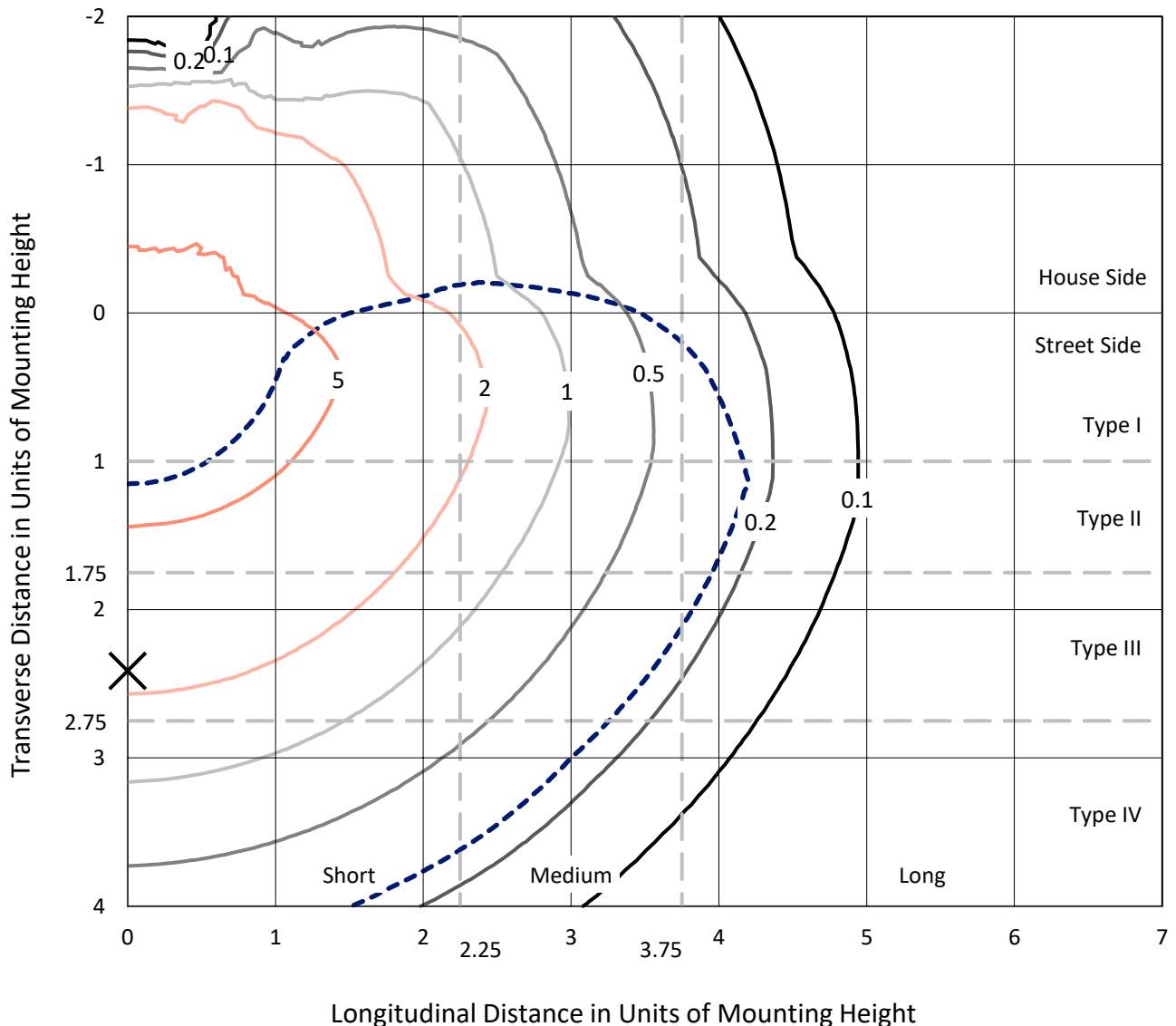
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

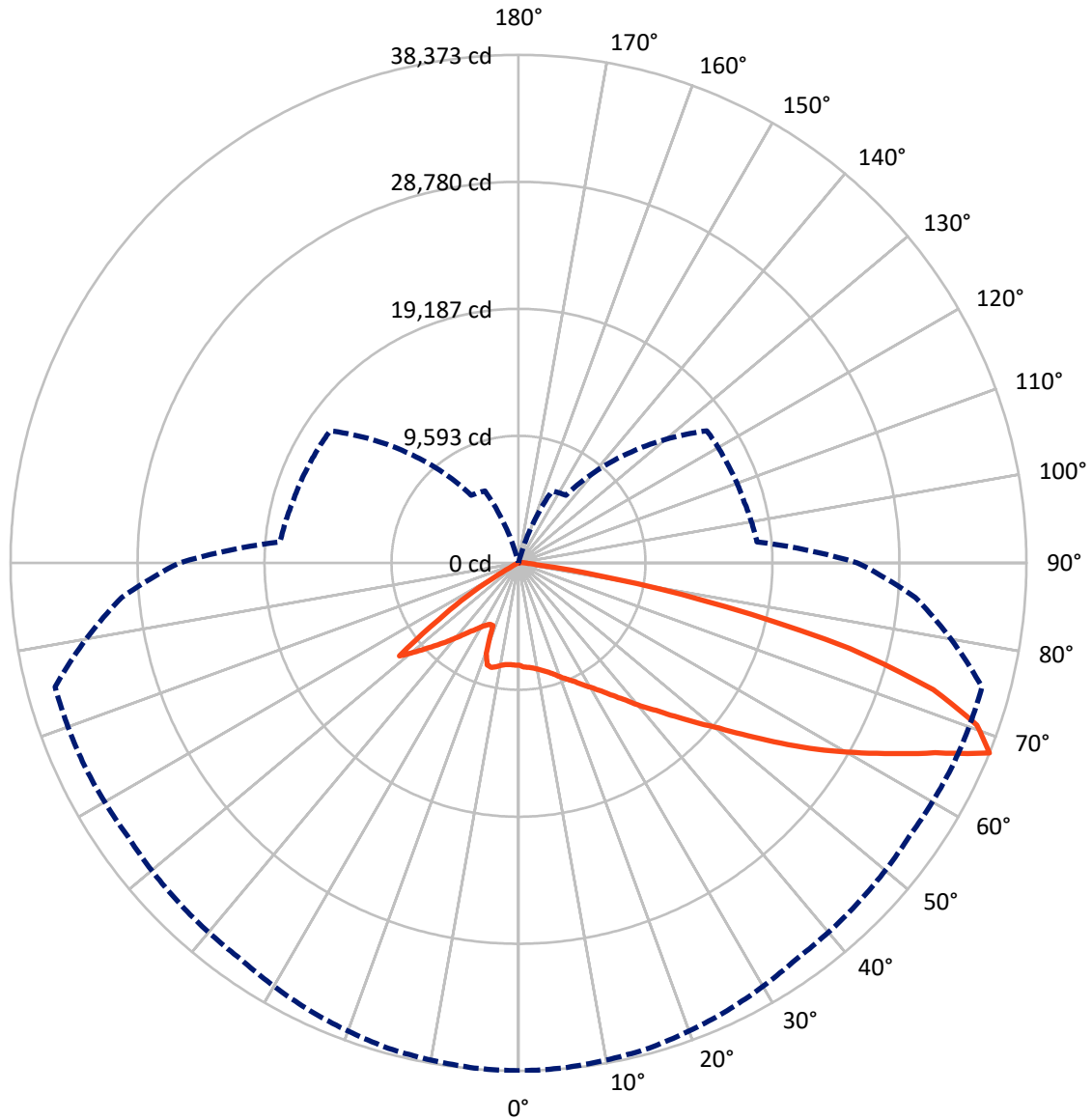
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 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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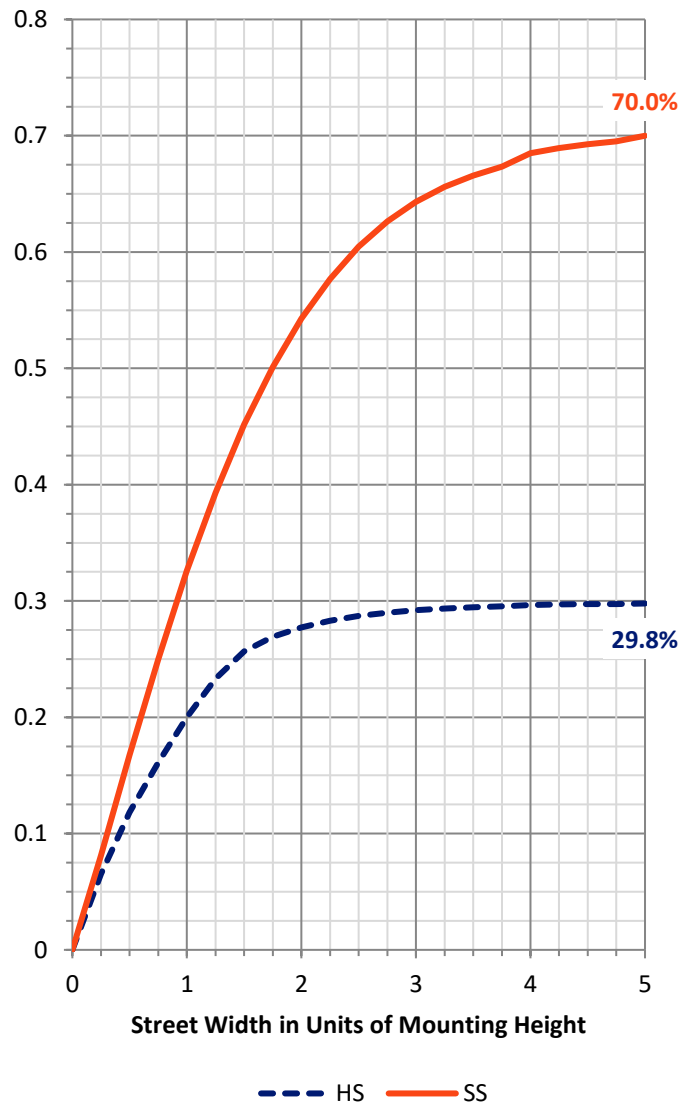
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23301.9	7.8	23309.8
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	54664.4	87.9	54752.2
	% Fixture	70.0	0.1	70.1
Total	Lumens	77966.3	95.7	78062.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	745.7	1.0
10°-20°	2308.6	3.0
20°-30°	3874.3	5.0
30°-40°	6282.4	8.0
40°-50°	10266.1	13.2
50°-60°	16088.8	20.6
60°-70°	21547.9	27.6
70°-80°	15705.5	20.1
80°-90°	1146.9	1.5
90°-100°	73.3	0.1
100°-110°	20.9	0.0
110°-120°	1.5	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°	77966.3	99.9
0°-180°	78062.0	100.0

Coefficient of Utilization



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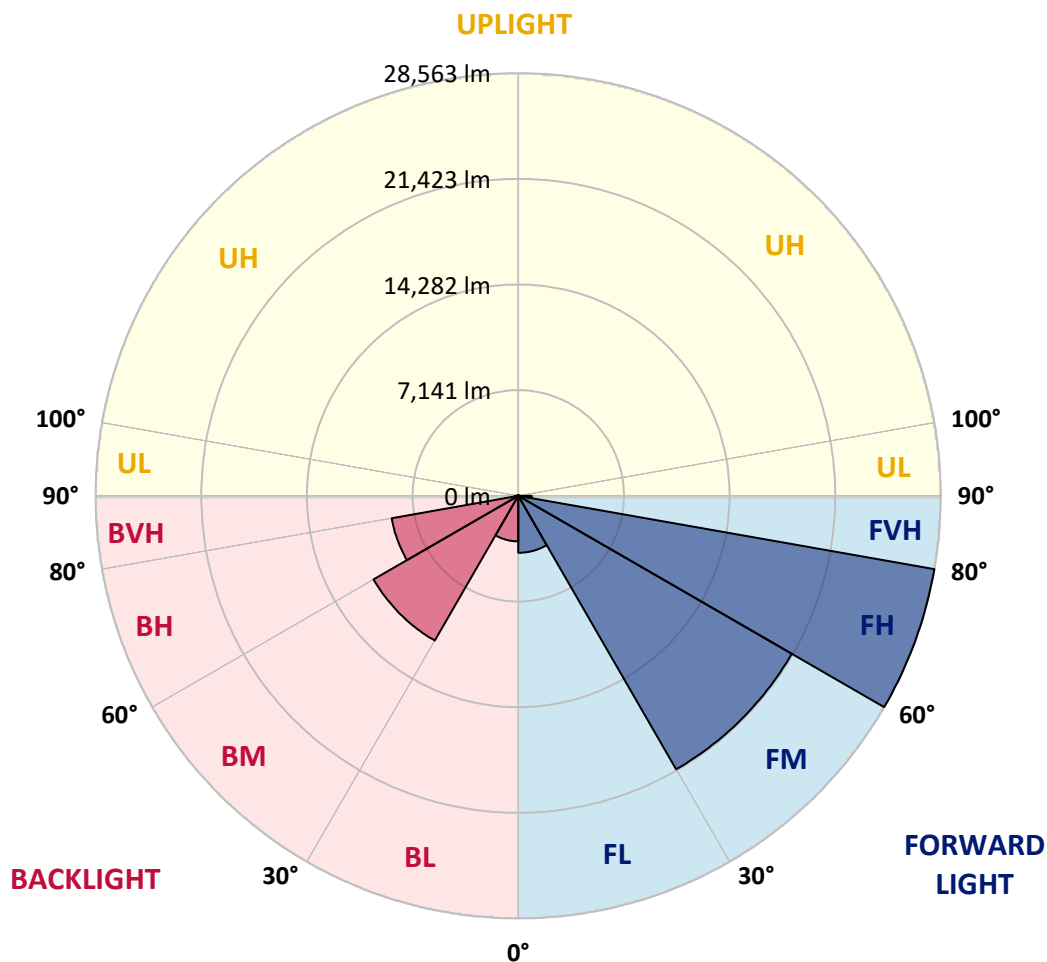
CATALOG NUMBER: CST-CA10-760-760-U-T5-HSS-HM-EX120

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3850.4	4.9			
FM (30°-60°)	21343.5	27.3			
FH (60°-80°)	28563.4	36.6			G5
FVH (80°-90°)	907.0	1.2			G5
BL (0°-30°)	3078.2	3.9	B4/5000		
BM (30°-60°)	11293.8	14.5	B5		
BH (60°-80°)	8690.0	11.1	B5		G5
BVH (80°-90°)	240.0	0.3			G3/500
UL (90°-100°)	73.3	0.1		U3/500	
UH (100°-180°)	22.4	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°	7735.1	7735.1	7735.1	7735.1	7735.1	7735.1	7735.1	7735.1	7735.1	7735.1	7735.1
2.5°	7882.7	7836.8	7840.1	7882.7	7754.7	7797.4	7741.6	7784.3	7754.7	7764.6	7784.3
5°	7932.0	7882.7	7886.0	7938.5	7823.7	7859.8	7784.3	7807.3	7781.0	7794.1	7794.1
7.5°	8030.4	7974.6	7971.3	8004.2	7886.0	7899.1	7830.2	7833.5	7794.1	7820.4	7807.3
10°	8178.1	8132.1	8099.3	8119.0	8014.0	8007.4	7918.8	7922.1	7872.9	7902.4	7879.4
12.5°	8358.6	8296.2	8289.7	8296.2	8181.4	8155.1	8063.2	8069.8	7981.2	8027.1	8000.9
15°	8588.3	8489.9	8489.9	8526.0	8378.3	8358.6	8247.0	8253.6	8161.7	8197.8	8171.5
17.5°	8870.5	8775.4	8759.0	8785.2	8657.2	8631.0	8516.1	8509.5	8407.8	8417.7	8394.7
20°	9234.8	9139.6	9100.3	9165.9	9005.1	8985.4	8847.6	8834.4	8726.1	8696.6	8683.5
22.5°	9572.8	9497.3	9477.7	9549.9	9382.5	9366.1	9234.8	9218.4	9116.7	9074.0	8814.7
25°	9953.5	9937.1	9930.5	9953.5	9796.0	9763.2	9661.4	9638.5	9553.1	9500.6	9185.6
27.5°	10445.8	10439.2	10419.5	10422.8	10278.4	10248.9	10153.7	10137.3	10048.7	9989.6	9586.0
30°	10961.0	10961.0	10918.3	10941.3	10869.1	10823.2	10747.7	10688.6	10632.8	10570.5	10061.8
32.5°	11555.0	11551.7	11512.3	11581.2	11528.7	11528.7	11482.8	11420.4	11322.0	11292.5	10675.5
35°	12319.6	12270.4	12254.0	12365.6	12349.2	12378.7	12362.3	12296.7	12214.6	12145.7	11397.5
37.5°	13166.3	13153.2	13202.4	13271.3	13307.4	13386.2	13337.0	13333.7	13320.6	13146.6	11203.8
40°	14209.9	14154.1	14223.0	14259.1	14232.9	14360.9	14318.2	14354.3	14452.8	13054.7	11190.7
42.5°	15250.2	15201.0	15250.2	15427.4	15388.1	15542.3	15522.6	15663.7	15719.5	13248.4	12099.8
45°	16530.1	16474.3	16513.7	16723.7	16743.4	16930.5	17032.2	17166.8	17193.0	14502.0	13195.9
47.5°	18000.3	17908.4	17983.9	18082.4	18381.0	18558.2	18656.7	18820.8	18988.1	16011.6	14442.9
50°	19621.5	19614.9	19697.0	19867.6	20208.9	20386.1	20556.8	20727.4	21003.1	17695.1	15840.9
52.5°	21682.4	21639.8	21780.9	21941.7	22243.6	22516.0	22719.5	22896.7	23192.0	19398.3	17353.8
55°	24038.7	23891.0	24160.1	24432.5	24560.5	24882.1	25023.2	25170.9	25453.1	21190.2	18236.6
57.5°	26582.1	26546.0	26733.0	26831.5	27107.1	27307.3	27382.8	27543.6	27540.3	23054.2	19739.6
60°	29086.0	29046.7	29266.5	29325.6	29545.5	29726.0	29699.7	29844.1	29896.6	24803.4	21213.1
62.5°	31721.3	31655.6	31859.1	31872.2	31741.0	32033.0	32003.5	32124.9	32079.0	26513.1	22663.7
65°	34602.6	34651.9	34717.5	34448.4	34133.3	34386.0	34379.5	34609.2	34773.3	28902.3	24606.5
67.5°	38373.3	38311.0	37973.0	37323.2	36558.5	36302.6	36030.2	36197.6	36243.5	30090.2	25600.8
70°	36745.6	36607.8	36456.8	35793.9	34871.7	34221.9	33798.6	33975.8	34162.9	28436.2	24045.3
72.5°	32778.0	32436.7	31734.4	31150.2	30618.6	29985.2	29470.0	29778.5	30188.7	25223.4	21291.9
75°	25860.1	25541.8	25029.8	24632.7	24347.2	24340.6	24317.7	24557.2	24498.2	20481.3	17311.2
77.5°	16014.9	16681.1	17153.6	16815.6	16933.8	16690.9	17225.8	17540.9	17826.4	14682.5	12332.8
80°	7393.8	7564.4	8401.2	8184.7	8010.7	7961.5	7994.3	8542.4	8703.2	6589.7	5519.9
82.5°	1686.8	1617.9	1677.0	1555.5	1549.0	1476.8	1486.6	1486.6	1434.1	1214.2	1017.3
85°	853.3	872.9	879.5	843.4	745.0	669.5	620.2	525.1	452.9	387.2	328.2
87.5°	571.0	587.4	597.3	548.1	492.3	429.9	390.5	318.3	252.7	157.5	121.4
90°	390.5	387.2	377.4	351.1	315.0	269.1	216.6	151.0	88.6	32.8	23.0
92.5°	278.9	272.4	269.1	246.1	219.9	183.8	141.1	95.2	49.2	23.0	13.1
95°	183.8	180.5	180.5	167.4	147.7	121.4	95.2	62.4	36.1	19.7	13.1
97.5°	128.0	124.7	124.7	118.1	105.0	88.6	65.6	42.7	29.5	19.7	13.1
100°	88.6	88.6	88.6	82.0	75.5	62.4	49.2	32.8	26.3	19.7	13.1
102.5°	59.1	59.1	62.4	59.1	52.5	42.7	32.8	26.3	23.0	16.4	13.1
105°	39.4	39.4	39.4	39.4	36.1	29.5	26.3	23.0	19.7	16.4	13.1
107.5°	26.3	26.3	26.3	26.3	23.0	19.7	19.7	19.7	16.4	16.4	13.1
110°	16.4	16.4	16.4	19.7	16.4	16.4	16.4	16.4	16.4	13.1	13.1



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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°	7735.1	7735.1	7735.1	7735.1	7735.1	7735.1	7735.1	7735.1	7735.1	7735.1
2.5°	7767.9	7721.9	7744.9	7699.0	7679.3	7636.6	7718.6	7725.2	7718.6	7731.8
5°	7777.7	7725.2	7751.5	7699.0	7689.1	7639.9	7721.9	7721.9	7702.2	7712.1
7.5°	7800.7	7744.9	7764.6	7702.2	7702.2	7643.2	7741.6	7735.1	7718.6	7741.6
10°	7879.4	7813.8	7813.8	7754.7	7761.3	7699.0	7820.4	7820.4	7807.3	7846.6
12.5°	8000.9	7918.8	7922.1	7840.1	7853.2	7804.0	7951.6	7958.2	7958.2	8023.8
15°	8158.4	8033.7	8046.8	7958.2	7984.5	7925.4	8056.7	8050.1	8066.5	8161.7
17.5°	8352.0	8214.2	8099.3	7810.5	7639.9	7646.4	8037.0	8217.5	8007.4	8069.8
20°	8434.1	7764.6	7400.3	7295.3	7272.3	6908.1	6163.1	6278.0	6980.3	7285.5
22.5°	7882.7	7669.4	7633.3	7498.8	6504.4	6228.7	6274.7	6209.0	5519.9	5129.4
25°	8151.8	8010.7	7928.7	6744.0	6520.8	6471.6	6438.8	5815.2	5067.0	5103.1
27.5°	8532.5	8348.7	7364.2	6773.5	6816.2	6740.7	6550.3	5231.1	5208.1	5267.2
30°	8982.1	8519.4	7177.2	7121.4	7170.6	7072.1	5506.8	5454.2	5454.2	5513.3
32.5°	9533.4	7728.5	7616.9	7623.5	7590.7	6474.9	5795.5	5782.4	5821.8	5871.0
35°	9379.2	8243.7	8253.6	8309.4	8233.9	6333.8	6248.4	6199.2	6232.0	6251.7
37.5°	9077.3	9018.2	9018.2	8955.9	7029.5	6829.3	6737.4	6730.8	6727.6	6727.6
40°	9838.6	9782.9	9713.9	9605.6	7354.4	7406.9	7269.0	7252.6	7262.5	7298.6
42.5°	10705.0	10682.1	10675.5	8243.7	8030.4	8069.8	7922.1	7879.4	7879.4	7961.5
45°	11725.6	11696.1	10970.8	8811.5	8775.4	8821.3	8657.2	8555.5	8611.3	8670.3
47.5°	12897.2	12897.2	9713.9	9661.4	9661.4	9687.7	9523.6	9385.8	9441.6	9461.2
50°	14180.4	12175.2	10688.6	10639.4	10685.3	10672.2	10501.6	9221.7	10406.4	10416.2
52.5°	14538.1	11840.5	11758.5	11702.7	11758.5	11748.6	11571.4	7692.4	11256.4	11417.2
55°	12887.4	12897.2	12880.8	12798.8	12857.8	12834.9	12660.9	8398.0	8299.5	7397.0
57.5°	13934.3	13947.4	13940.8	13927.7	13980.2	10157.0	13113.8	7587.4	4633.8	4637.1
60°	15073.0	15007.4	14987.7	14958.2	12677.3	7200.1	5464.1	528.4	1811.5	1785.3
62.5°	16106.8	16083.8	16014.9	15998.5	10757.5	5670.8	5539.6	121.4	95.2	91.9
65°	17544.2	17340.7	17284.9	17111.0	11466.4	6038.4	5913.7	36.1	3.3	0.0
67.5°	18079.1	17665.6	17465.4	17373.5	11666.6	6228.7	5989.2	36.1	3.3	0.0
70°	17068.3	16556.4	16303.7	16201.9	10901.9	5821.8	5585.5	36.1	3.3	0.0
72.5°	15135.4	14758.0	14656.2	14331.3	9612.2	5109.7	4902.9	36.1	0.0	0.0
75°	12414.8	12277.0	12152.3	11807.7	7813.8	4059.5	3875.7	32.8	0.0	0.0
77.5°	9034.6	8831.2	8601.4	8227.3	5273.8	2651.6	2556.5	29.5	0.0	0.0
80°	4072.6	3905.3	3849.5	3265.3	1870.6	863.1	761.4	26.3	0.0	0.0
82.5°	790.9	712.1	676.0	649.8	420.1	233.0	203.5	19.7	0.0	0.0
85°	269.1	298.6	347.9	384.0	236.3	141.1	118.1	13.1	0.0	0.0
87.5°	105.0	141.1	170.7	177.2	88.6	59.1	32.8	6.6	0.0	0.0
90°	19.7	26.3	23.0	16.4	9.8	3.3	0.0	0.0	0.0	0.0
92.5°	9.8	13.1	9.8	9.8	6.6	3.3	0.0	0.0	0.0	0.0
95°	13.1	13.1	13.1	9.8	6.6	3.3	0.0	0.0	0.0	0.0
97.5°	13.1	13.1	13.1	9.8	6.6	3.3	0.0	0.0	0.0	0.0
100°	13.1	13.1	13.1	9.8	6.6	3.3	0.0	0.0	0.0	0.0
102.5°	13.1	13.1	13.1	9.8	6.6	3.3	0.0	0.0	0.0	0.0
105°	13.1	16.4	13.1	9.8	6.6	3.3	0.0	0.0	0.0	0.0
107.5°	13.1	16.4	13.1	9.8	6.6	3.3	0.0	0.0	0.0	0.0
110°	13.1	16.4	13.1	9.8	6.6	3.3	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)