

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: P579535

Luminaire Tested: **CST-CA10-630-750-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-630-750-U-T5N-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 73809 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U2 - G5

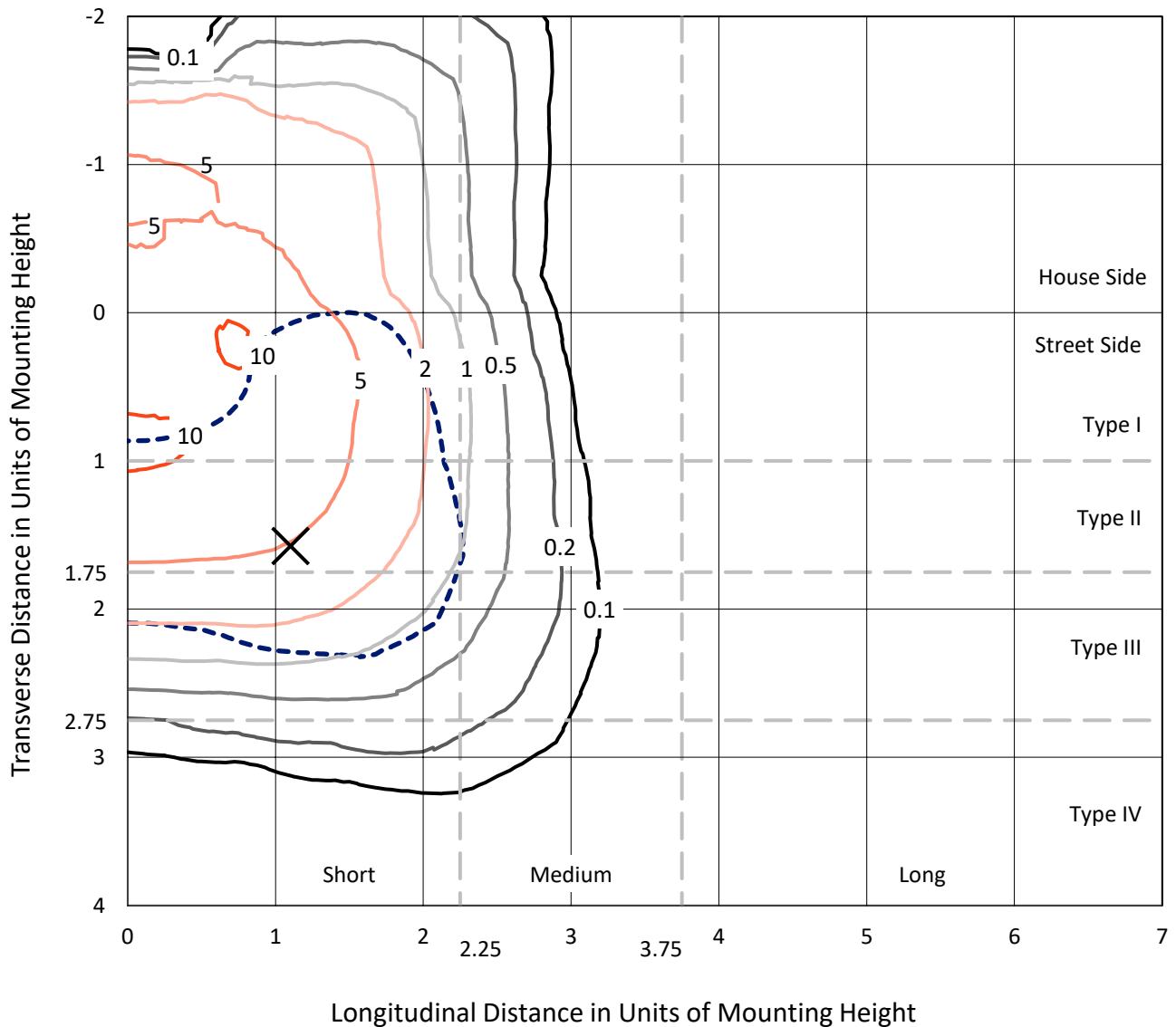
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

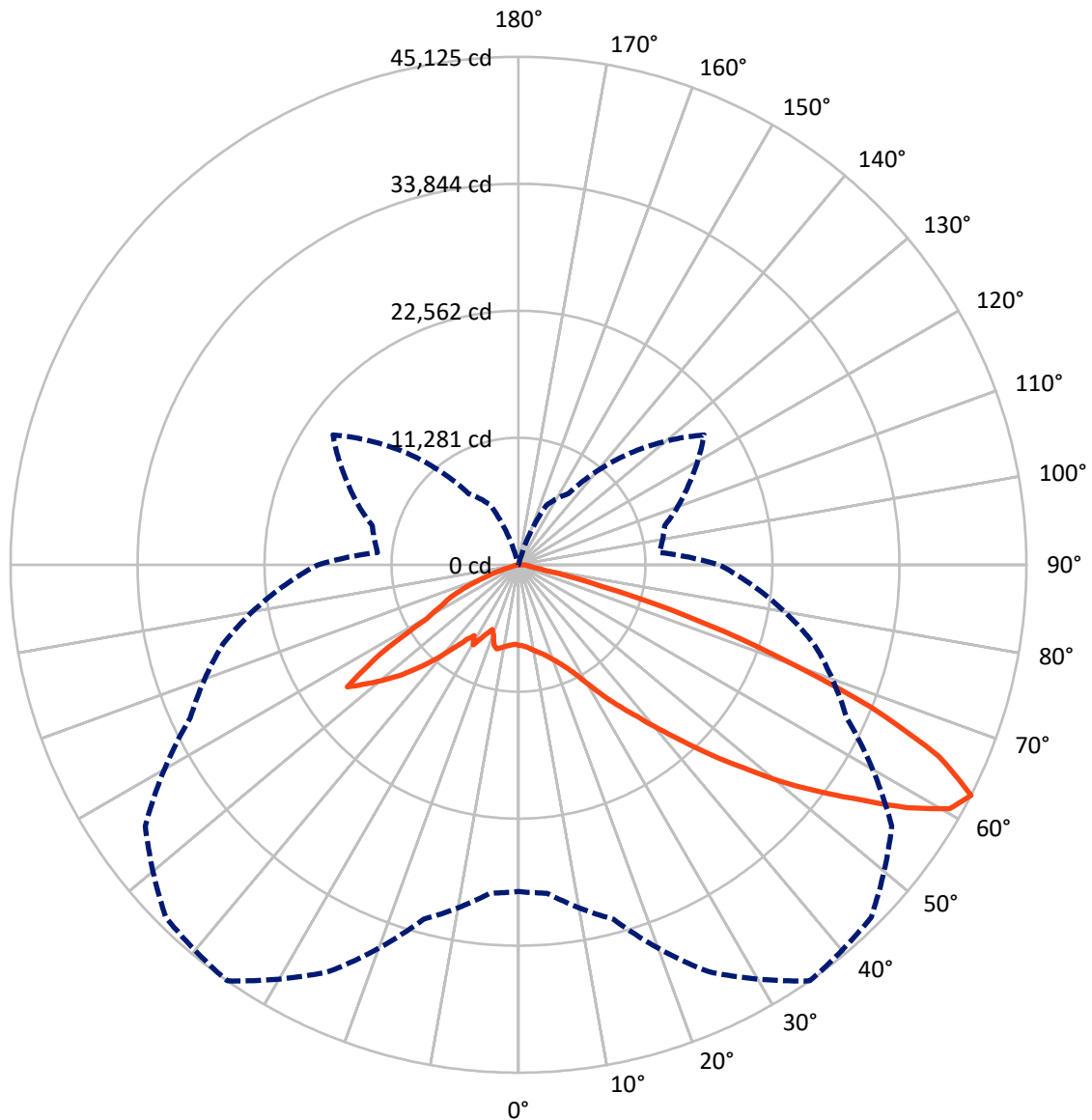
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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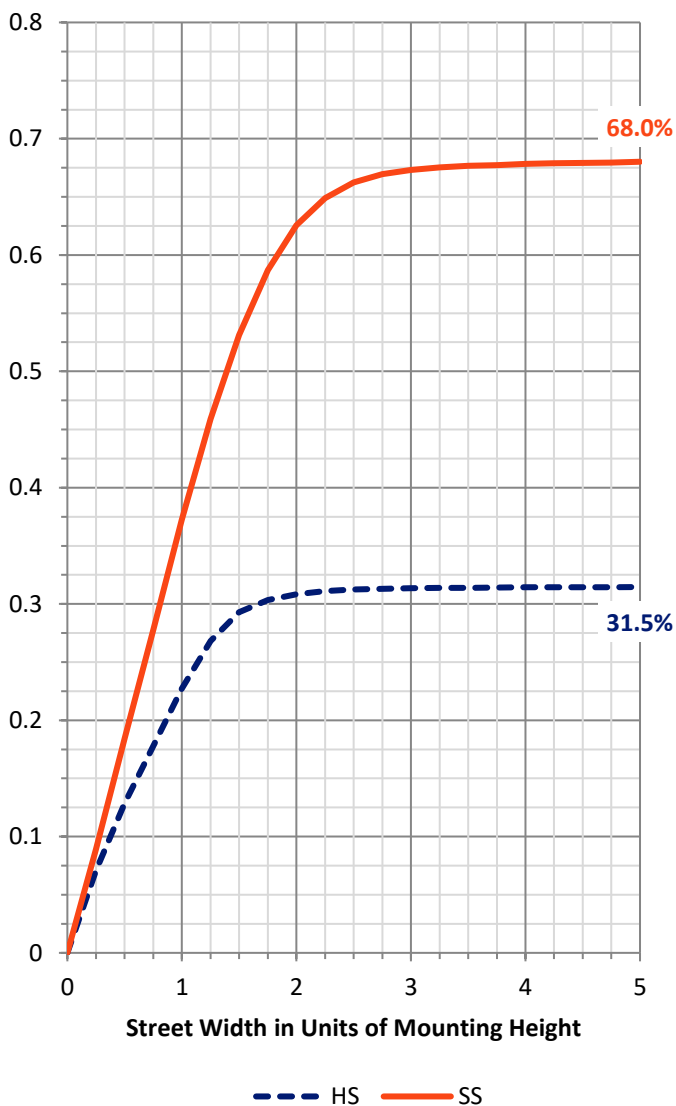
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23350.0	0.0	23350.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	50416.8	42.1	50458.9
	% Fixture	68.3	0.1	68.4
Total	Lumens	73766.8	42.2	73809.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	706.5	1.0
10°-20°	2271.5	3.1
20°-30°	4217.8	5.7
30°-40°	8315.7	11.3
40°-50°	14927.7	20.2
50°-60°	21699.0	29.4
60°-70°	17833.1	24.2
70°-80°	3389.8	4.6
80°-90°	405.8	0.5
90°-100°	38.4	0.1
100°-110°	3.7	0.0
110°-120°	0.1	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°	73766.8	99.9
0°-180°	73809.0	100.0

Coefficient of Utilization

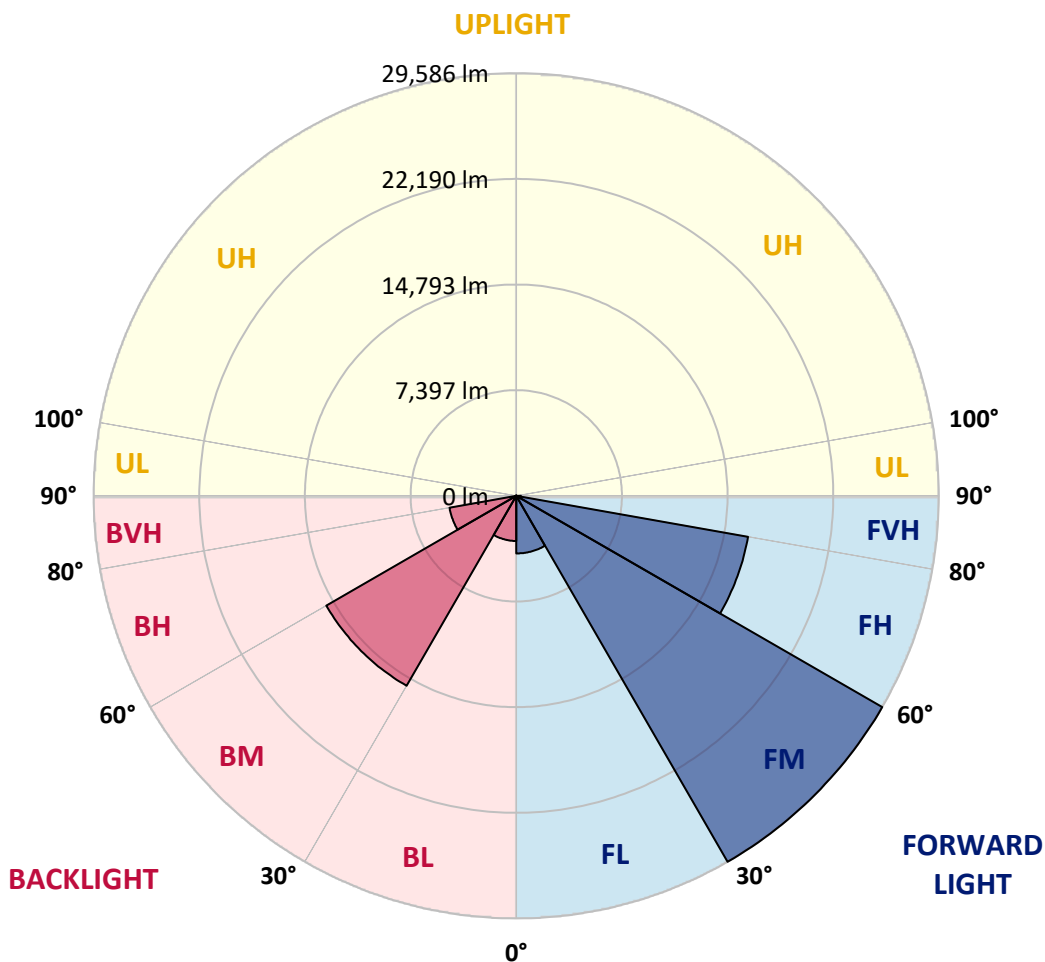


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4034.1	5.5			
FM	(30°-60°)	29586.1	40.1			
FH	(60°-80°)	16475.8	22.3			G5
FVH	(80°-90°)	320.8	0.4			G3/500
BL	(0°-30°)	3161.7	4.3	B4/5000		
BM	(30°-60°)	15356.4	20.8	B5		
BH	(60°-80°)	4747.0	6.4	B4/5000		G4/5000
BVH	(80°-90°)	84.9	0.1			G1/100
UL	(90°-100°)	38.4	0.1		U2/50	
UH	(100°-180°)	3.8	0.0		U1/10	

BUG Rating: B5-U2-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7164.3	7164.3	7164.3	7164.3	7164.3	7164.3	7164.3	7164.3	7164.3	7164.3	7164.3
2.5°	7347.3	7287.3	7293.3	7338.3	7203.3	7248.3	7185.3	7239.3	7215.3	7239.3	7254.3
5°	7494.3	7419.3	7416.3	7461.3	7353.3	7380.3	7308.3	7344.3	7311.3	7341.3	7341.3
7.5°	7674.3	7611.3	7596.3	7632.3	7536.3	7548.3	7476.3	7491.3	7452.3	7491.3	7461.3
10°	7899.3	7842.3	7818.3	7836.3	7749.3	7755.3	7677.3	7683.3	7626.3	7659.3	7635.3
12.5°	8136.3	8058.3	8046.3	8076.3	7986.3	7974.3	7908.3	7914.3	7851.3	7881.3	7863.3
15°	8382.4	8301.4	8304.4	8334.4	8244.3	8250.3	8181.3	8193.3	8130.3	8160.3	8136.3
17.5°	8709.4	8628.4	8622.4	8676.4	8601.4	8625.4	8553.4	8568.4	8523.4	8529.4	8502.4
20°	9177.4	9072.4	9051.4	9129.4	9030.4	9060.4	9021.4	9072.4	9054.4	9039.4	9018.4
22.5°	9735.4	9654.4	9612.4	9672.4	9555.4	9612.4	9633.4	9738.4	9765.4	9747.4	9417.4
25°	10482.4	10440.4	10398.4	10371.4	10230.4	10320.4	10428.4	10602.4	10716.5	10761.5	10302.4
27.5°	11490.5	11511.5	11328.5	11298.5	11139.5	11280.5	11475.5	11757.5	11988.5	12072.5	11454.5
30°	12786.5	12813.5	12564.5	12492.5	12396.5	12516.5	12879.5	13188.6	13530.6	13671.6	12846.5
32.5°	14508.6	14484.6	14118.6	13980.6	13893.6	13941.6	14322.6	14745.6	15129.6	15447.7	14433.6
35°	16611.7	16536.7	16146.7	15765.7	15420.7	15567.7	15846.7	16359.7	16941.7	17409.7	15999.7
37.5°	19053.8	18981.8	18387.8	17766.8	17085.7	17148.7	17397.7	18234.8	18984.8	19107.8	15732.7
40°	21576.9	21546.9	20985.9	20196.9	19137.8	18840.8	19170.8	20190.9	20982.9	18837.8	16353.7
42.5°	24097.0	23953.0	23638.0	22849.0	21438.9	20784.9	21228.9	22248.9	23101.0	19749.8	17793.8
45°	26638.1	26491.1	26224.1	25645.1	24178.0	23227.0	23356.0	24487.0	25258.1	21459.9	19293.8
47.5°	28894.2	28786.2	28594.2	28270.2	26962.1	26101.1	25852.1	26644.1	27169.2	22849.0	20445.9
50°	30838.3	30745.3	30820.3	30712.3	30328.3	29425.2	28603.2	28552.2	28804.2	24085.0	21504.9
52.5°	32548.4	32422.4	32743.4	33124.4	33478.4	33277.4	31288.3	30361.3	30133.3	25012.1	22215.9
55°	33961.4	33916.4	34468.5	35497.5	36844.6	37372.6	34159.4	32032.4	31321.3	25798.1	22281.9
57.5°	34807.5	34915.5	36082.5	38074.6	40708.7	40957.7	37519.6	33808.4	32368.4	26275.1	22597.0
60°	33361.4	33727.4	35827.5	40006.7	43996.9	44104.9	39934.7	34162.4	30997.3	24559.0	20913.9
62.5°	29029.2	29293.2	32596.4	39883.7	45124.9	44302.9	40474.7	32164.4	27166.2	20832.9	17787.8
65°	20511.9	20817.9	24799.1	35965.5	41053.7	41083.7	37075.6	27814.2	21714.9	16128.7	13734.6
67.5°	12372.5	12867.5	16638.7	26110.1	33802.4	34417.5	30931.3	21057.9	15540.7	10530.4	8889.4
70°	4059.2	4512.2	7596.3	15453.7	24367.0	27001.1	23230.0	13683.6	8115.3	4452.2	3585.2
72.5°	1608.1	1815.1	2676.1	6834.3	15702.7	18027.8	14313.6	6612.3	2724.1	1182.1	1029.0
75°	1074.0	1095.0	1236.1	2328.1	7683.3	9858.4	6900.3	1923.1	1011.0	738.0	648.0
77.5°	936.0	939.0	1002.0	1227.1	2502.1	3780.2	1986.1	1032.0	837.0	606.0	537.0
80°	858.0	870.0	909.0	1047.0	1146.0	1284.1	981.0	861.0	726.0	558.0	507.0
82.5°	822.0	831.0	855.0	948.0	927.0	963.0	792.0	684.0	612.0	513.0	486.0
85°	750.0	765.0	780.0	837.0	762.0	660.0	612.0	459.0	438.0	387.0	357.0
87.5°	567.0	564.0	549.0	558.0	510.0	417.0	345.0	258.0	210.0	174.0	144.0
90°	237.0	240.0	231.0	219.0	192.0	159.0	120.0	72.0	36.0	12.0	6.0
92.5°	180.0	183.0	177.0	159.0	138.0	111.0	81.0	42.0	24.0	9.0	3.0
95°	111.0	114.0	108.0	96.0	84.0	63.0	42.0	27.0	15.0	6.0	0.0
97.5°	66.0	69.0	63.0	57.0	45.0	30.0	24.0	18.0	12.0	6.0	0.0
100°	39.0	39.0	36.0	30.0	21.0	18.0	15.0	12.0	9.0	3.0	0.0
102.5°	18.0	18.0	18.0	12.0	9.0	9.0	9.0	9.0	9.0	3.0	0.0
105°	6.0	6.0	3.0	3.0	3.0	6.0	6.0	6.0	6.0	3.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.0	6.0	3.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0	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°	7164.3	7164.3	7164.3	7164.3	7164.3	7164.3	7164.3	7164.3	7164.3	7164.3
2.5°	7239.3	7182.3	7191.3	7140.3	7128.3	7074.3	7170.3	7179.3	7152.3	7179.3
5°	7329.3	7260.3	7278.3	7221.3	7206.3	7131.3	7209.3	7203.3	7182.3	7209.3
7.5°	7461.3	7383.3	7392.3	7326.3	7311.3	7227.3	7299.3	7278.3	7254.3	7287.3
10°	7629.3	7554.3	7557.3	7467.3	7458.3	7362.3	7455.3	7416.3	7380.3	7428.3
12.5°	7863.3	7758.3	7749.3	7650.3	7647.3	7548.3	7644.3	7611.3	7563.3	7638.3
15°	8133.3	7992.3	7956.3	7830.3	7827.3	7722.3	7818.3	7767.3	7743.3	7833.3
17.5°	8484.4	8307.4	8034.3	7605.3	7410.3	7443.3	7782.3	7905.3	7584.3	7632.3
20°	8697.4	7839.3	7440.3	7263.3	7170.3	6636.3	5913.3	5973.3	6684.3	7023.3
22.5°	8337.4	8082.3	7935.3	7686.3	6390.3	6207.3	6249.3	6237.3	5319.2	5046.2
25°	9087.4	8847.4	8580.4	7044.3	6777.3	6699.3	6720.3	5859.2	5358.2	5379.2
27.5°	10167.4	9858.4	8166.3	7500.3	7446.3	7332.3	6918.3	5883.2	5946.3	5988.3
30°	11532.5	10434.4	8697.4	8406.4	8298.4	8175.3	6420.3	6573.3	6690.3	6819.3
32.5°	12852.5	10149.4	9714.4	9411.4	9243.4	7422.3	7242.3	7524.3	7641.3	7752.3
35°	12732.5	11370.5	10806.5	10422.4	10107.4	8010.3	8169.3	8598.4	8907.4	8904.4
37.5°	13062.6	12699.5	12048.5	11562.5	8772.4	8973.4	9306.4	9795.4	10170.4	10167.4
40°	14439.6	14046.6	13434.6	12390.5	9720.4	10188.4	10644.5	11103.5	11373.5	11394.5
42.5°	15807.7	15504.7	14952.6	10944.5	10881.5	11529.5	12006.5	12297.5	12462.5	12519.5
45°	17169.7	16884.7	14691.6	12105.5	12297.5	12939.5	13230.6	13287.6	13464.6	13458.6
47.5°	18252.8	18009.8	13515.6	13485.6	13962.6	14406.6	14313.6	14241.6	14286.6	14310.6
50°	19251.8	15678.7	14571.6	15009.6	15735.7	15789.7	15402.7	12201.5	15105.6	15054.6
52.5°	17883.8	15300.6	15555.7	16581.7	17817.8	17190.7	16434.7	10695.5	14166.6	15513.7
55°	15648.7	15906.7	16482.7	18204.8	19425.8	18681.8	17418.7	11013.5	9402.4	7653.3
57.5°	15960.7	16368.7	17463.7	19842.8	20907.9	14796.6	16257.7	7764.3	5256.2	5253.2
60°	14862.6	15480.7	17442.7	20577.9	16923.7	9480.4	6513.3	177.0	1020.0	1011.0
62.5°	12564.5	13443.6	16641.7	20112.9	14019.6	7704.3	5802.2	15.0	6.0	6.0
65°	9717.4	10752.5	13875.6	17415.7	12420.5	6636.3	4308.2	0.0	0.0	0.0
67.5°	6372.3	7332.3	10419.4	14466.6	10311.4	5016.2	2895.1	0.0	0.0	0.0
70°	2655.1	3840.2	6474.3	10455.4	7584.3	3285.1	1374.1	0.0	0.0	0.0
72.5°	768.0	1170.0	2916.1	6243.3	4707.2	1719.1	510.0	0.0	0.0	0.0
75°	507.0	534.0	882.0	2511.1	2289.1	630.0	207.0	0.0	0.0	0.0
77.5°	426.0	438.0	561.0	702.0	735.0	249.0	168.0	0.0	0.0	0.0
80°	393.0	396.0	504.0	522.0	393.0	207.0	165.0	0.0	0.0	0.0
82.5°	366.0	357.0	429.0	414.0	327.0	180.0	153.0	0.0	0.0	0.0
85°	252.0	258.0	291.0	369.0	198.0	90.0	108.0	0.0	0.0	0.0
87.5°	78.0	90.0	114.0	117.0	36.0	12.0	0.0	0.0	0.0	0.0
90°	3.0	0.0	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)