

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: P579538

Luminaire Tested: **CST-CA10-760-750-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579538
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-CA10-760-750-U-T5-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: 79753 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U3 - G5

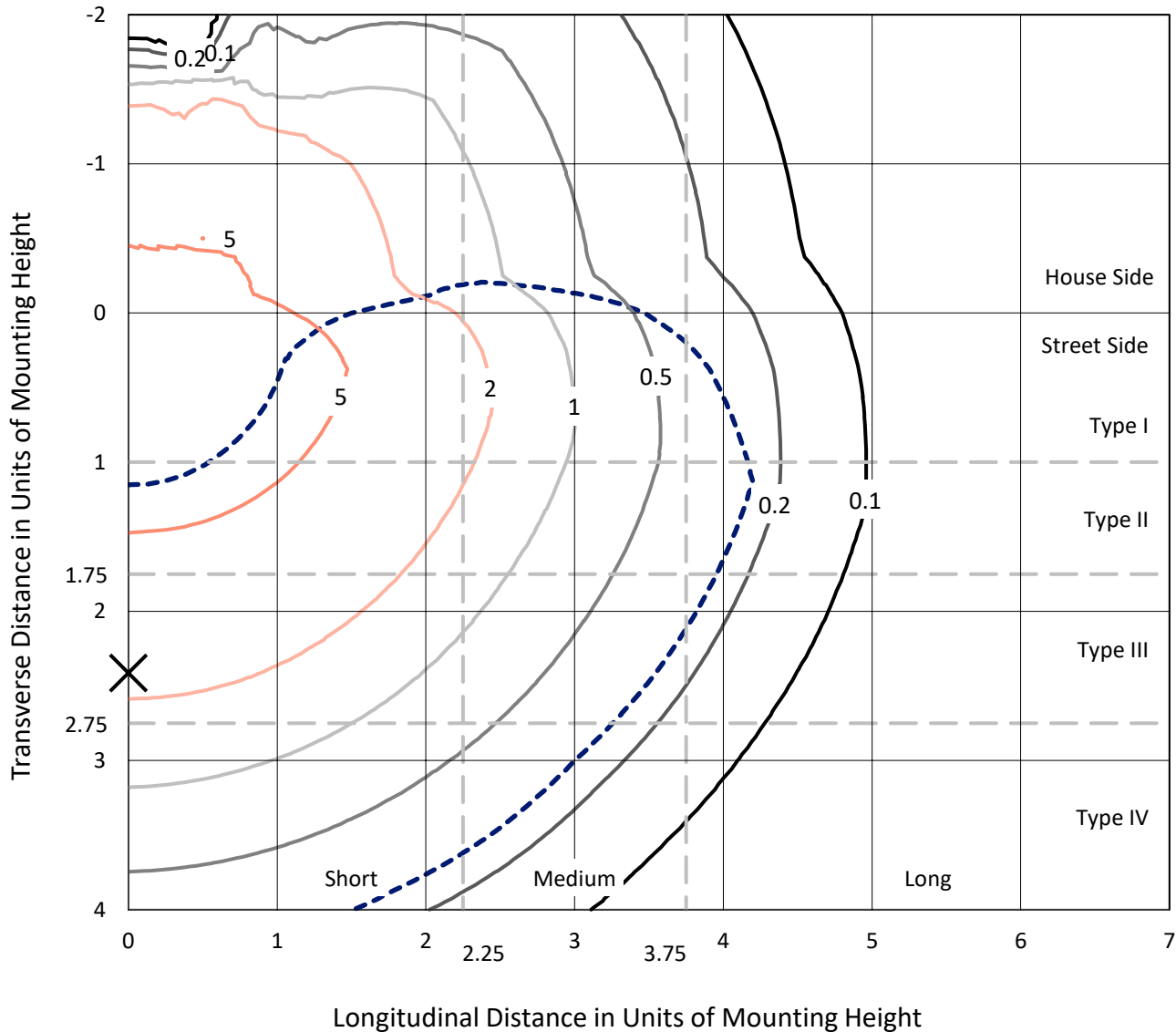
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

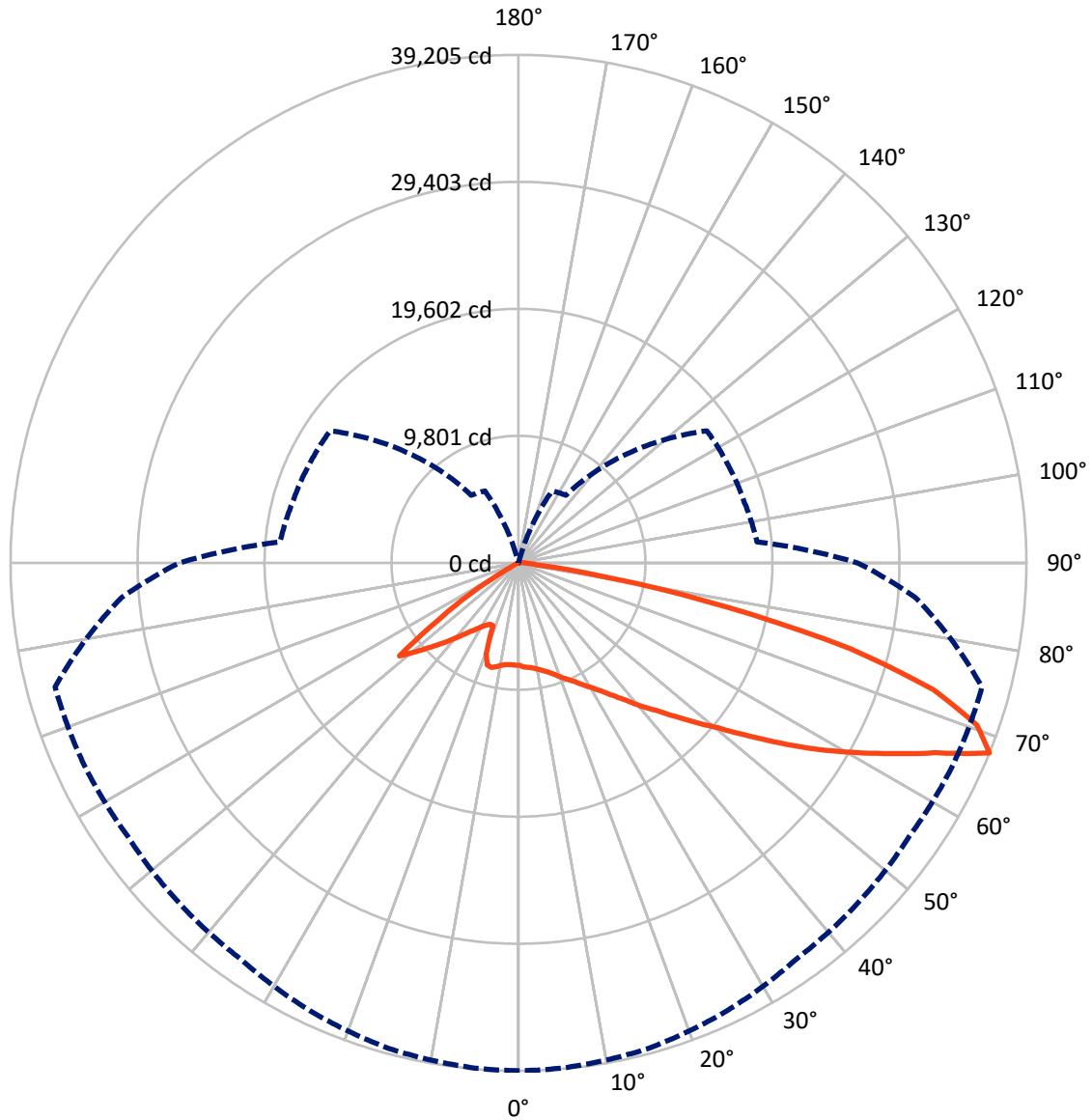
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 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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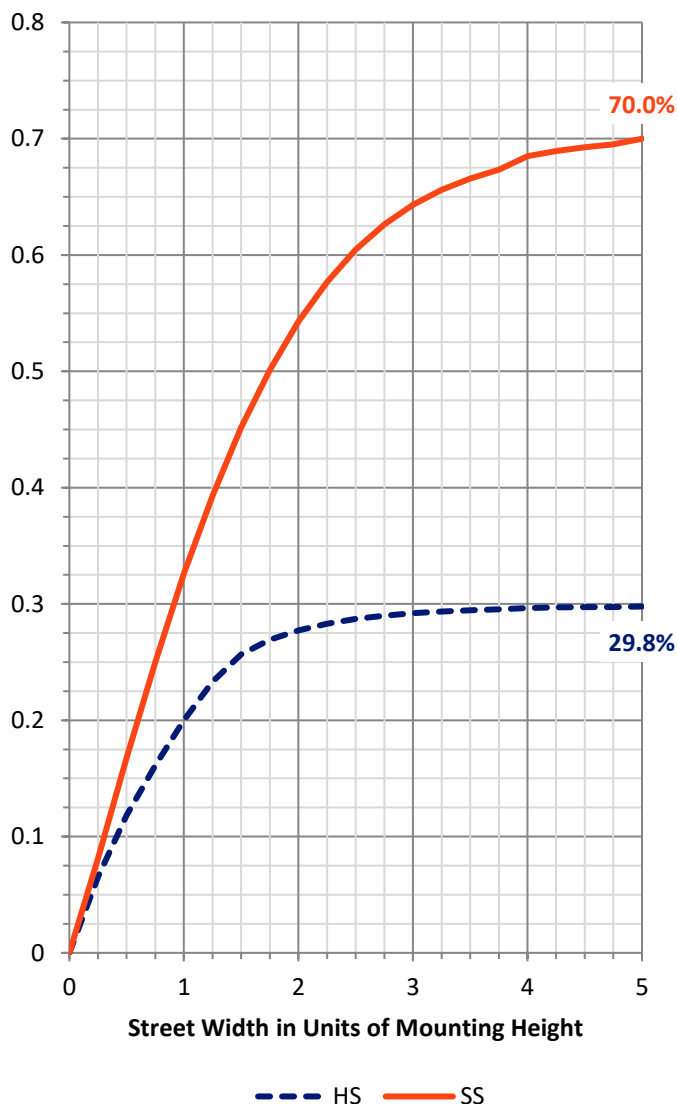
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23806.7	8.0	23814.7
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	55848.5	89.8	55938.3
	% Fixture	70.0	0.1	70.1
Total	Lumens	79655.2	97.8	79753.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	761.9	1.0
10°-20°	2358.6	3.0
20°-30°	3958.2	5.0
30°-40°	6418.5	8.0
40°-50°	10488.5	13.2
50°-60°	16437.4	20.6
60°-70°	22014.6	27.6
70°-80°	16045.7	20.1
80°-90°	1171.8	1.5
90°-100°	74.9	0.1
100°-110°	21.3	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°	79655.2	99.9
0°-180°	79753.0	100.0

Coefficient of Utilization

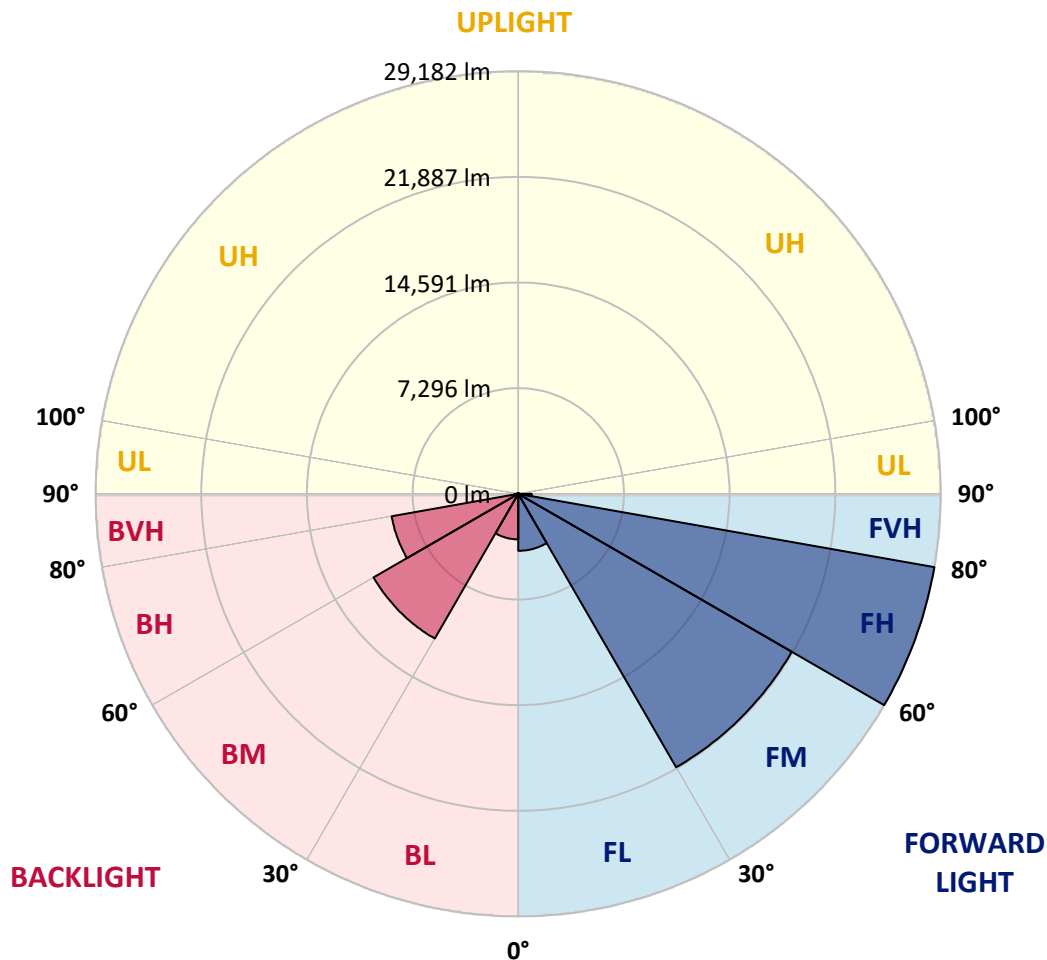


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3933.8	4.9			
FM (30°-60°)	21805.9	27.3			
FH (60°-80°)	29182.1	36.6			G5
FVH (80°-90°)	926.6	1.2			G5
BL (0°-30°)	3144.9	3.9	B4/5000		
BM (30°-60°)	11538.4	14.5	B5		
BH (60°-80°)	8878.2	11.1	B5		G5
BVH (80°-90°)	245.2	0.3			G3/500
UL (90°-100°)	74.9	0.1		U3/500	
UH (100°-180°)	22.8	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°	7902.6	7902.6	7902.6	7902.6	7902.6	7902.6	7902.6	7902.6	7902.6	7902.6	7902.6
2.5°	8053.5	8006.5	8009.9	8053.5	7922.7	7966.3	7909.3	7952.9	7922.7	7932.8	7952.9
5°	8103.8	8053.5	8056.8	8110.5	7993.1	8030.0	7952.9	7976.4	7949.6	7963.0	7963.0
7.5°	8204.4	8147.4	8144.0	8177.5	8056.8	8070.3	7999.8	8003.2	7963.0	7989.8	7976.4
10°	8355.2	8308.3	8274.8	8294.9	8187.6	8180.9	8090.4	8093.7	8043.4	8073.6	8050.1
12.5°	8539.6	8475.9	8469.2	8475.9	8358.6	8331.8	8237.9	8244.6	8154.1	8201.0	8174.2
15°	8774.3	8673.8	8673.8	8710.6	8559.8	8539.6	8425.7	8432.4	8338.5	8375.4	8348.5
17.5°	9062.7	8965.5	8948.7	8975.5	8844.8	8817.9	8700.6	8693.9	8589.9	8600.0	8576.5
20°	9434.9	9337.6	9297.4	9364.4	9200.2	9180.0	9039.2	9025.8	8915.2	8885.0	8871.6
22.5°	9780.2	9703.1	9683.0	9756.7	9585.7	9569.0	9434.9	9418.1	9314.2	9270.6	9005.7
25°	10169.1	10152.4	10145.7	10169.1	10008.2	9974.7	9870.7	9847.3	9760.1	9706.4	9384.6
27.5°	10672.0	10665.3	10645.2	10648.6	10501.1	10470.9	10373.6	10356.9	10266.4	10206.0	9793.6
30°	11198.4	11198.4	11154.9	11178.3	11104.6	11057.6	10980.5	10920.2	10863.2	10799.5	10279.8
32.5°	11805.3	11801.9	11761.7	11832.1	11778.5	11778.5	11731.5	11667.8	11567.3	11537.1	10906.7
35°	12586.5	12536.2	12519.5	12633.4	12616.7	12646.9	12630.1	12563.0	12479.2	12408.8	11644.4
37.5°	13451.5	13438.1	13488.4	13558.8	13595.7	13676.2	13625.9	13622.5	13609.1	13431.4	11446.5
40°	14517.7	14460.7	14531.1	14568.0	14541.2	14672.0	14628.4	14665.3	14765.8	13337.5	11433.1
42.5°	15580.6	15530.3	15580.6	15761.6	15721.4	15879.0	15858.9	16003.0	16060.0	13535.4	12361.9
45°	16888.2	16831.2	16871.4	17086.0	17106.1	17297.2	17401.2	17538.6	17565.5	14816.1	13481.7
47.5°	18390.3	18296.4	18373.5	18474.1	18779.2	18960.2	19060.8	19228.5	19399.5	16358.4	14755.8
50°	20046.5	20039.8	20123.7	20298.0	20646.7	20827.8	21002.1	21176.5	21458.1	18078.4	16184.1
52.5°	22152.1	22108.5	22252.7	22417.0	22725.5	23003.7	23211.6	23392.7	23694.4	19818.6	17729.7
55°	24559.5	24408.6	24683.5	24961.8	25092.6	25421.1	25565.3	25716.2	26004.5	21649.2	18631.7
57.5°	27157.9	27121.0	27312.1	27412.7	27694.3	27898.9	27976.0	28140.3	28136.9	23553.6	20167.3
60°	29716.1	29675.9	29900.5	29960.9	30185.5	30369.9	30343.1	30490.6	30544.2	25340.7	21672.7
62.5°	32408.4	32341.4	32549.2	32562.7	32428.5	32726.9	32696.8	32820.8	32773.9	27087.5	23154.6
65°	35352.2	35402.5	35469.6	35194.6	34872.7	35130.9	35124.2	35358.9	35526.5	29528.3	25139.5
67.5°	39204.6	39140.9	38795.6	38131.7	37350.5	37089.0	36810.7	36981.7	37028.6	30742.1	26155.4
70°	37541.6	37400.8	37246.5	36569.3	35627.1	34963.3	34530.8	34711.8	34902.9	29052.2	24566.2
72.5°	33488.0	33139.3	32421.8	31825.0	31281.9	30634.8	30108.4	30423.5	30842.7	25769.8	21753.1
75°	26420.3	26095.0	25572.0	25166.3	24874.6	24867.9	24844.4	25089.2	25028.8	20925.0	17686.2
77.5°	16361.8	17042.4	17525.2	17179.9	17300.6	17052.5	17599.0	17920.9	18212.6	15000.5	12599.9
80°	7553.9	7728.3	8583.2	8361.9	8184.2	8134.0	8167.5	8727.4	8891.7	6732.5	5639.5
82.5°	1723.4	1652.9	1713.3	1589.2	1582.5	1508.8	1518.8	1518.8	1465.2	1240.5	1039.4
85°	871.7	891.9	898.6	861.7	761.1	684.0	633.7	536.5	462.7	395.6	335.3
87.5°	583.4	600.2	610.2	559.9	502.9	439.2	399.0	325.2	258.2	160.9	124.1
90°	399.0	395.6	385.6	358.8	321.9	274.9	221.3	154.2	90.5	33.5	23.5
92.5°	285.0	278.3	274.9	251.5	224.6	187.8	144.2	97.2	50.3	23.5	13.4
95°	187.8	184.4	184.4	171.0	150.9	124.1	97.2	63.7	36.9	20.1	13.4
97.5°	130.8	127.4	127.4	120.7	107.3	90.5	67.1	43.6	30.2	20.1	13.4
100°	90.5	90.5	90.5	83.8	77.1	63.7	50.3	33.5	26.8	20.1	13.4
102.5°	60.4	60.4	63.7	60.4	53.6	43.6	33.5	26.8	23.5	16.8	13.4
105°	40.2	40.2	40.2	40.2	36.9	30.2	26.8	23.5	20.1	16.8	13.4
107.5°	26.8	26.8	26.8	26.8	23.5	20.1	20.1	20.1	16.8	16.8	13.4
110°	16.8	16.8	16.8	20.1	16.8	16.8	16.8	16.8	16.8	13.4	13.4



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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°	7902.6	7902.6	7902.6	7902.6	7902.6	7902.6	7902.6	7902.6	7902.6	7902.6
2.5°	7936.1	7889.2	7912.7	7865.7	7845.6	7802.0	7885.8	7892.6	7885.8	7899.3
5°	7946.2	7892.6	7919.4	7865.7	7855.7	7805.4	7889.2	7889.2	7869.1	7879.1
7.5°	7969.7	7912.7	7932.8	7869.1	7869.1	7808.7	7909.3	7902.6	7885.8	7909.3
10°	8050.1	7983.1	7983.1	7922.7	7929.4	7865.7	7989.8	7989.8	7976.4	8016.6
12.5°	8174.2	8090.4	8093.7	8009.9	8023.3	7973.0	8123.9	8130.6	8130.6	8197.7
15°	8335.1	8207.7	8221.1	8130.6	8157.4	8097.1	8231.2	8224.5	8241.2	8338.5
17.5°	8532.9	8392.1	8274.8	7979.7	7805.4	7812.1	8211.1	8395.5	8180.9	8244.6
20°	8616.8	7932.8	7560.6	7453.3	7429.9	7057.7	6296.6	6414.0	7131.5	7443.3
22.5°	8053.5	7835.6	7798.7	7661.2	6645.3	6363.7	6410.6	6343.5	5639.5	5240.5
25°	8328.4	8184.2	8100.4	6890.1	6662.1	6611.8	6578.2	5941.2	5176.8	5213.6
27.5°	8717.3	8529.6	7523.7	6920.2	6963.8	6886.7	6692.2	5344.4	5320.9	5381.3
30°	9176.7	8703.9	7332.6	7275.6	7325.9	7225.3	5626.0	5572.4	5572.4	5632.7
32.5°	9740.0	7895.9	7781.9	7788.6	7755.1	6615.1	5921.1	5907.7	5947.9	5998.2
35°	9582.4	8422.3	8432.4	8489.4	8412.2	6471.0	6383.8	6333.5	6367.0	6387.1
37.5°	9273.9	9213.6	9213.6	9149.9	7181.8	6977.2	6883.4	6876.6	6873.3	6873.3
40°	10051.8	9994.8	9924.4	9813.7	7513.7	7567.3	7426.5	7409.7	7419.8	7456.7
42.5°	10936.9	10913.4	10906.7	8422.3	8204.4	8244.6	8093.7	8050.1	8050.1	8134.0
45°	11979.6	11949.5	11208.5	9002.3	8965.5	9012.4	8844.8	8740.8	8797.8	8858.2
47.5°	13176.6	13176.6	9924.4	9870.7	9870.7	9897.5	9729.9	9589.1	9646.1	9666.2
50°	14487.6	12439.0	10920.2	10869.9	10916.8	10903.4	10729.0	9421.4	10631.8	10641.9
52.5°	14853.0	12097.0	12013.2	11956.2	12013.2	12003.1	11822.1	7859.0	11500.2	11664.5
55°	13166.5	13176.6	13159.8	13076.0	13136.4	13112.9	12935.2	8579.9	8479.3	7557.3
57.5°	14236.1	14249.5	14242.8	14229.4	14283.0	10377.0	13397.9	7751.7	4734.2	4737.5
60°	15399.5	15332.5	15312.4	15282.2	12952.0	7356.1	5582.5	539.8	1850.8	1823.9
62.5°	16455.7	16432.2	16361.8	16345.0	10990.6	5793.7	5659.6	124.1	97.2	93.9
65°	17924.2	17716.3	17659.3	17481.6	11714.8	6169.2	6041.8	36.9	3.4	0.0
67.5°	18470.7	18048.3	17843.7	17749.9	11919.3	6363.7	6118.9	36.9	3.4	0.0
70°	17438.1	16915.0	16656.8	16552.9	11138.1	5947.9	5706.5	36.9	3.4	0.0
72.5°	15463.2	15077.7	14973.7	14641.8	9820.4	5220.4	5009.1	36.9	0.0	0.0
75°	12683.7	12542.9	12415.5	12063.5	7983.1	4147.4	3959.7	33.5	0.0	0.0
77.5°	9230.3	9022.5	8787.8	8405.5	5388.0	2709.1	2611.9	30.2	0.0	0.0
80°	4160.9	3989.9	3932.9	3336.1	1911.1	881.8	777.9	26.8	0.0	0.0
82.5°	808.0	727.6	690.7	663.9	429.2	238.1	207.9	20.1	0.0	0.0
85°	274.9	305.1	355.4	392.3	241.4	144.2	120.7	13.4	0.0	0.0
87.5°	107.3	144.2	174.3	181.1	90.5	60.4	33.5	6.7	0.0	0.0
90°	20.1	26.8	23.5	16.8	10.1	3.4	0.0	0.0	0.0	0.0
92.5°	10.1	13.4	10.1	10.1	6.7	3.4	0.0	0.0	0.0	0.0
95°	13.4	13.4	13.4	10.1	6.7	3.4	0.0	0.0	0.0	0.0
97.5°	13.4	13.4	13.4	10.1	6.7	3.4	0.0	0.0	0.0	0.0
100°	13.4	13.4	13.4	10.1	6.7	3.4	0.0	0.0	0.0	0.0
102.5°	13.4	13.4	13.4	10.1	6.7	3.4	0.0	0.0	0.0	0.0
105°	13.4	16.8	13.4	10.1	6.7	3.4	0.0	0.0	0.0	0.0
107.5°	13.4	16.8	13.4	10.1	6.7	3.4	0.0	0.0	0.0	0.0
110°	13.4	16.8	13.4	10.1	6.7	3.4	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)