

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: P579630

Luminaire Tested: **CST-CA10-630-727-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579630
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-CA10-630-727-U-T5-HSS-HM-EX90
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63079 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U2 - G5

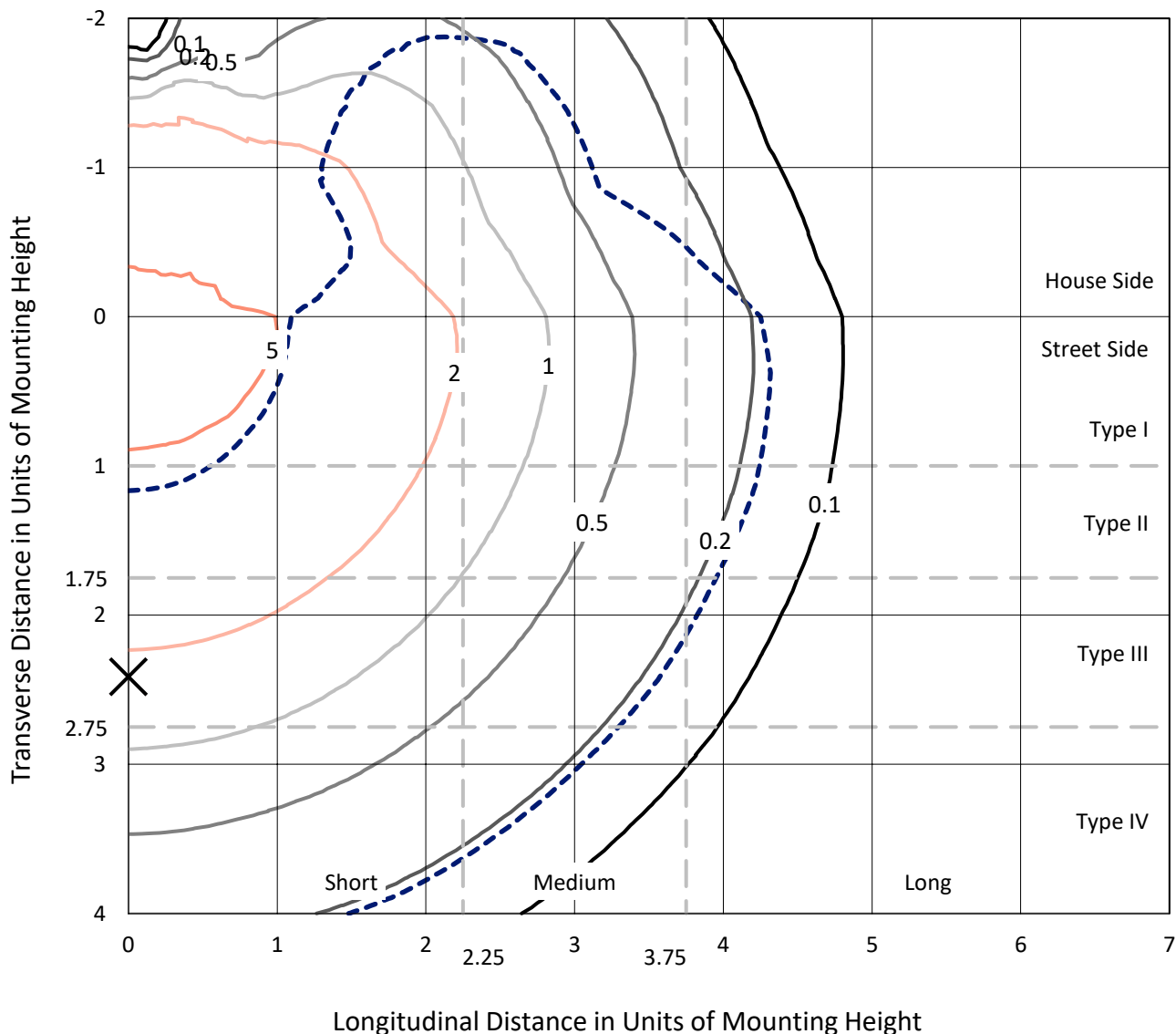
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

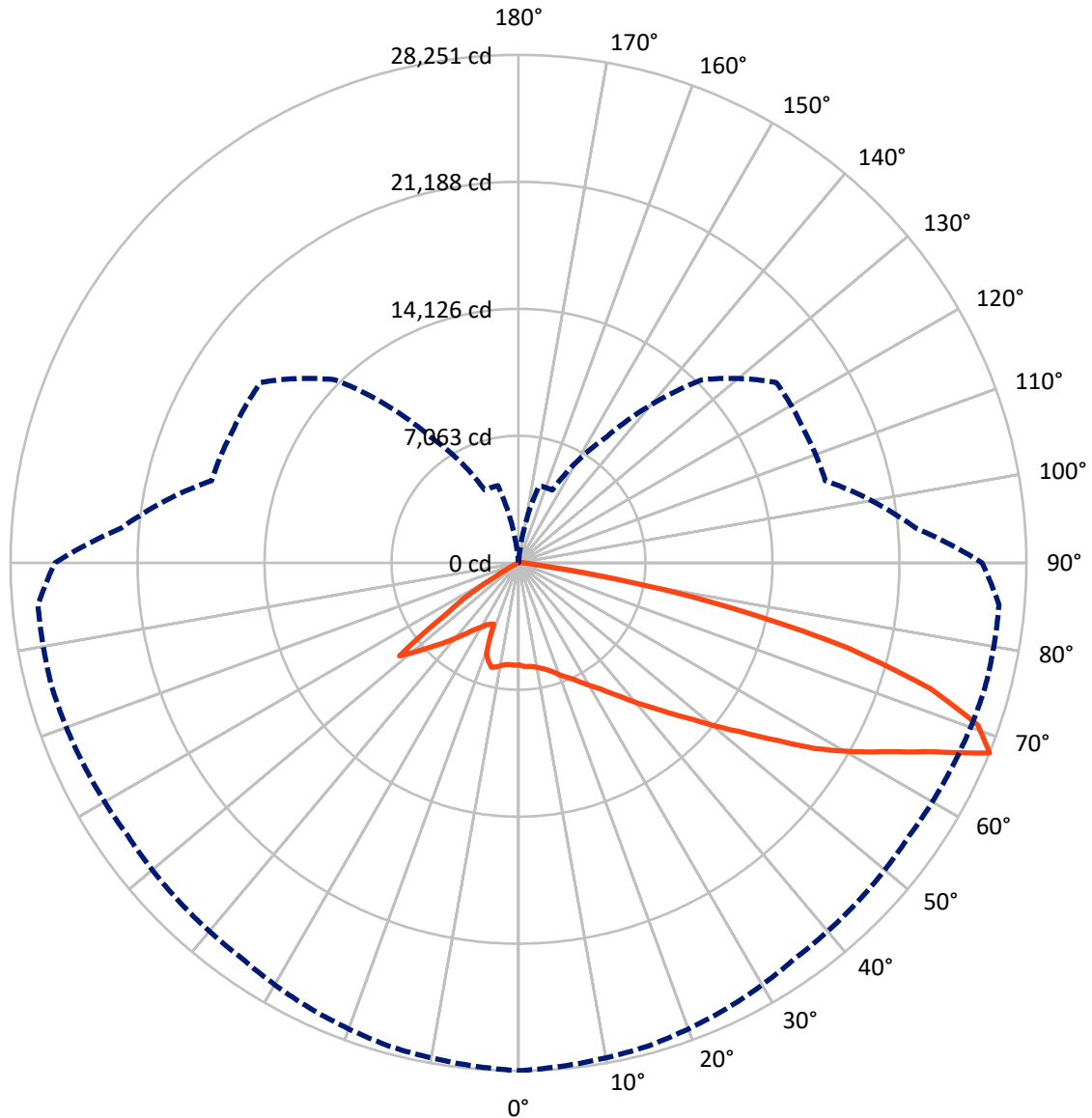
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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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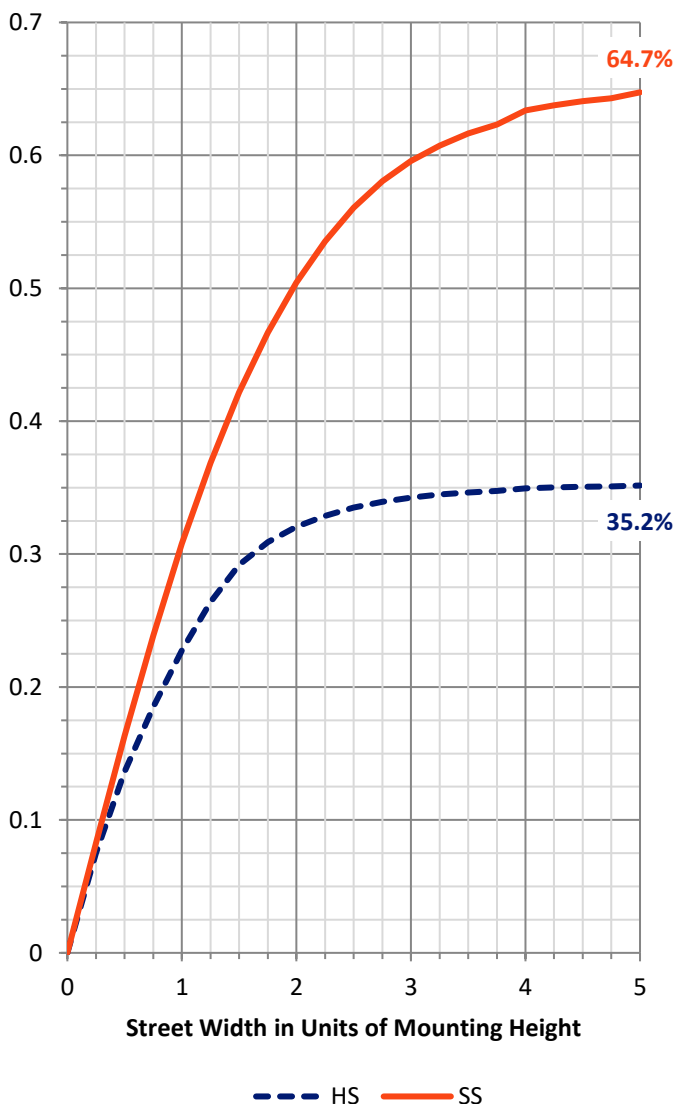
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22203.7	1.3	22205.0
	% Fixture	35.2	0.0	35.2
Street Side	Lumens	40829.5	44.5	40874.0
	% Fixture	64.7	0.1	64.8
Total	Lumens	63033.2	45.8	63079.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.8	0.9
10°-20°	1698.8	2.7
20°-30°	2945.4	4.7
30°-40°	4833.0	7.7
40°-50°	8061.5	12.8
50°-60°	13046.5	20.7
60°-70°	18008.3	28.5
70°-80°	12992.3	20.6
80°-90°	900.5	1.4
90°-100°	39.0	0.1
100°-110°	6.5	0.0
110°-120°	0.2	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°	63033.2	99.9
0°-180°	63079.0	100.0

Coefficient of Utilization

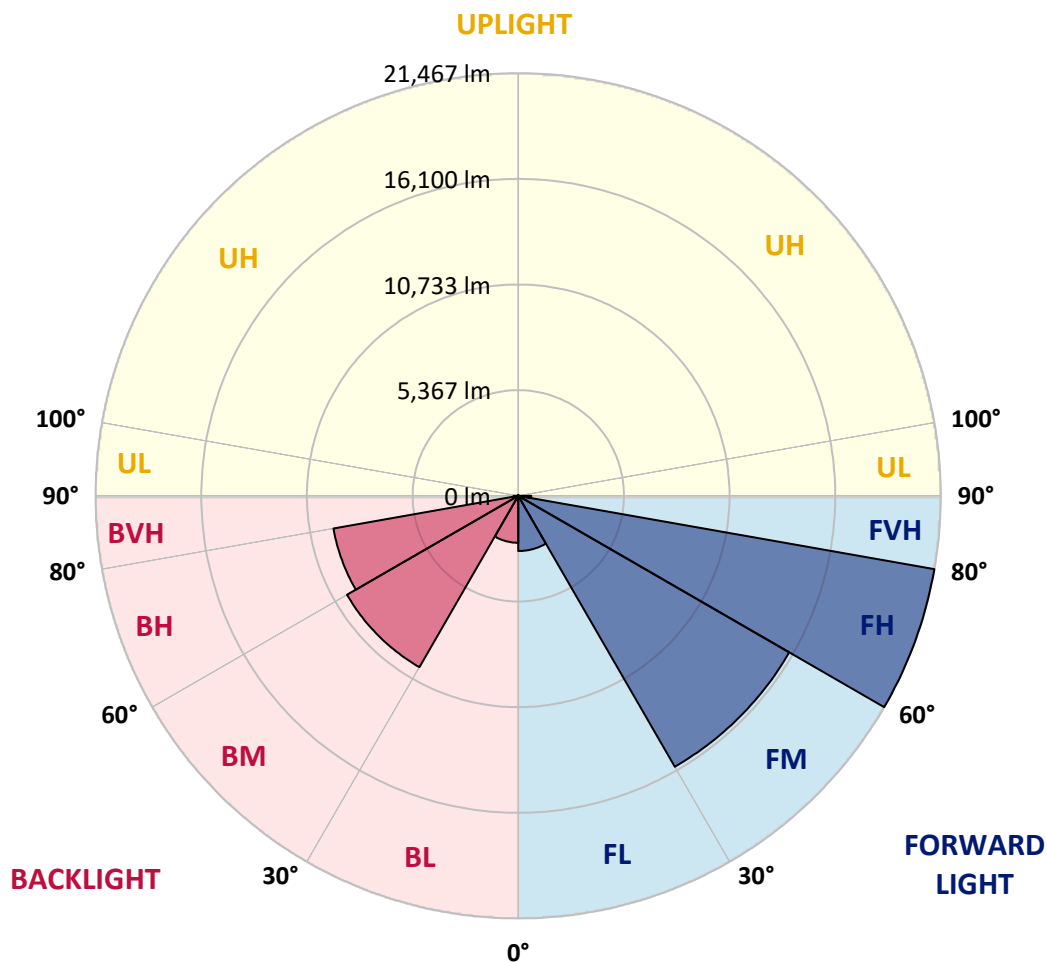


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2805.0	4.4			
FM	(30°-60°)	15894.3	25.2			
FH	(60°-80°)	21466.6	34.0			G5
FVH	(80°-90°)	663.5	1.1			G4/750
BL	(0°-30°)	2386.1	3.8	B3/2500		
BM	(30°-60°)	10046.6	15.9	B5		
BH	(60°-80°)	9534.0	15.1	B5		G5
BVH	(80°-90°)	237.0	0.4			G3/500
UL	(90°-100°)	39.0	0.1		U2/50	
UH	(100°-180°)	6.8	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°	5684.5	5684.5	5684.5	5684.5	5684.5	5684.5	5684.5	5684.5	5684.5	5684.5	5684.5
2.5°	5771.5	5737.6	5740.1	5773.9	5682.1	5715.9	5677.3	5711.1	5694.2	5706.3	5720.7
5°	5788.4	5747.3	5752.1	5793.2	5720.7	5747.3	5701.4	5720.7	5706.3	5720.7	5723.2
7.5°	5831.8	5790.8	5793.2	5824.6	5749.7	5769.0	5725.6	5735.2	5711.1	5737.6	5730.4
10°	5923.6	5885.0	5870.5	5897.0	5831.8	5834.2	5783.5	5793.2	5757.0	5793.2	5778.7
12.5°	6046.7	5993.6	5998.4	6012.9	5933.2	5938.1	5877.7	5892.2	5831.8	5882.5	5865.6
15°	6196.5	6131.3	6138.5	6162.7	6085.4	6078.1	6022.6	6022.6	5969.5	6008.1	5991.2
17.5°	6404.1	6331.7	6326.9	6343.8	6281.0	6281.0	6218.2	6211.0	6157.8	6189.2	6184.4
20°	6674.6	6592.5	6578.0	6609.4	6529.7	6539.4	6459.7	6452.4	6394.5	6413.8	6416.2
22.5°	6918.5	6853.3	6850.9	6899.2	6805.0	6817.1	6744.6	6725.3	6677.0	6703.6	6710.8
25°	7198.6	7189.0	7181.7	7198.6	7104.4	7104.4	7053.7	7036.8	7005.4	7024.8	7044.1
27.5°	7551.2	7546.4	7527.0	7529.5	7449.8	7461.8	7406.3	7396.6	7382.2	7379.7	7370.1
30°	7940.0	7918.2	7891.7	7908.6	7872.4	7884.4	7836.1	7804.7	7799.9	7802.3	7787.8
32.5°	8372.2	8343.3	8326.4	8355.3	8369.8	8403.6	8401.2	8314.3	8314.3	8350.5	8285.3
35°	8908.3	8862.4	8876.9	8915.6	8944.5	9031.5	9017.0	8956.6	8975.9	8992.8	8915.6
37.5°	9538.6	9507.2	9572.4	9644.9	9647.3	9770.4	9741.4	9755.9	9753.5	9731.8	9681.1
40°	10294.4	10243.7	10311.3	10366.9	10333.1	10480.4	10475.6	10540.8	10584.2	10659.1	10630.1
42.5°	11045.5	11006.8	11072.0	11192.8	11173.4	11342.5	11366.6	11468.1	11528.4	11644.3	11576.7
45°	11970.3	11948.6	12009.0	12103.2	12168.4	12392.9	12482.3	12525.7	12677.9	12817.9	12661.0
47.5°	13006.3	13035.3	13025.6	13197.1	13342.0	13614.8	13651.1	13791.1	13923.9	14078.5	13926.4
50°	14295.8	14247.5	14291.0	14455.2	14691.9	14889.9	15075.8	15276.2	15406.6	15566.0	15285.9
52.5°	15684.4	15725.4	15822.0	16075.6	16249.4	16483.7	16652.7	16891.8	17019.8	17157.4	16792.8
55°	17435.1	17468.9	17575.2	17836.0	17959.1	18224.8	18340.7	18579.7	18702.9	18763.3	18297.2
57.5°	19487.7	19374.2	19461.2	19596.4	19787.2	20074.5	20105.9	20330.5	20330.5	20407.8	19813.7
60°	21320.6	21243.3	21335.1	21528.3	21603.1	21863.9	21837.4	22020.9	22069.2	22011.2	21301.3
62.5°	23126.9	23141.4	23259.7	23322.5	23293.5	23448.0	23510.8	23704.0	23624.3	23643.6	22825.0
65°	25319.5	25353.4	25341.3	25225.4	24964.6	25268.8	25251.9	25558.6	25577.9	25751.8	24800.4
67.5°	28251.2	28101.4	27828.6	27362.5	26845.7	26667.0	26510.1	26662.2	26857.8	26826.4	25783.2
70°	27111.4	26867.5	26725.0	26319.3	25628.6	25271.2	24945.2	24971.8	25256.8	25283.3	24216.0
72.5°	23967.2	23844.1	23295.9	22940.9	22467.6	22192.3	21798.7	21888.1	22259.9	22322.7	21472.7
75°	18905.7	18792.2	18297.2	18181.3	17947.1	18082.3	17985.7	18021.9	18321.4	18046.1	17536.5
77.5°	12236.0	12262.5	12185.3	12448.5	12438.8	12446.1	12798.6	12834.8	13127.0	12958.0	12465.4
80°	5486.5	5566.2	5754.6	6136.1	5904.3	6029.8	6165.1	6124.0	6418.6	5752.1	5991.2
82.5°	1110.8	1149.5	1084.3	1132.6	1057.7	1096.3	1151.9	1067.4	1057.7	980.4	910.4
85°	572.3	579.6	577.1	565.1	497.5	458.8	441.9	371.9	335.7	328.4	304.3
87.5°	371.9	376.7	364.6	362.2	318.8	292.2	260.8	219.7	183.5	128.0	106.3
90°	227.0	227.0	214.9	202.8	181.1	161.8	130.4	94.2	55.5	21.7	12.1
92.5°	152.1	152.1	147.3	140.1	125.6	108.7	84.5	55.5	26.6	9.7	4.8
95°	96.6	96.6	94.2	91.8	82.1	70.0	53.1	33.8	16.9	7.2	2.4
97.5°	62.8	62.8	62.8	60.4	55.5	48.3	36.2	21.7	12.1	4.8	2.4
100°	38.6	41.1	38.6	38.6	36.2	31.4	24.1	14.5	9.7	4.8	2.4
102.5°	21.7	21.7	24.1	24.1	21.7	19.3	14.5	12.1	7.2	4.8	2.4
105°	9.7	9.7	12.1	12.1	12.1	9.7	9.7	7.2	4.8	4.8	2.4
107.5°	2.4	2.4	2.4	4.8	7.2	7.2	7.2	7.2	4.8	2.4	2.4
110°	0.0	0.0	0.0	2.4	2.4	4.8	4.8	4.8	4.8	2.4	2.4



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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°	5684.5	5684.5	5684.5	5684.5	5684.5	5684.5	5684.5	5684.5	5684.5	5684.5
2.5°	5706.3	5677.3	5699.0	5662.8	5653.1	5621.7	5682.1	5691.8	5686.9	5696.6
5°	5711.1	5674.9	5701.4	5665.2	5662.8	5629.0	5691.8	5694.2	5677.3	5684.5
7.5°	5725.6	5691.8	5711.1	5670.0	5674.9	5633.8	5706.3	5703.8	5694.2	5711.1
10°	5778.7	5740.1	5747.3	5703.8	5715.9	5672.4	5761.8	5766.6	5757.0	5788.4
12.5°	5870.5	5817.3	5834.2	5783.5	5793.2	5749.7	5858.4	5865.6	5865.6	5916.3
15°	5996.0	5940.5	5976.7	5911.5	5913.9	5848.7	5930.8	5930.8	5940.5	6010.5
17.5°	6179.6	6111.9	6160.2	6099.9	5723.2	5580.7	5860.8	6032.3	5747.3	5723.2
20°	6406.6	6375.2	6401.7	6302.7	5691.8	5039.8	4532.6	4506.1	5068.7	5348.9
22.5°	6684.3	6652.9	6664.9	6539.4	5080.8	4622.0	4614.7	4566.5	3863.7	3670.5
25°	7010.3	6993.4	6966.8	5913.9	5252.3	4812.8	4754.8	4124.5	3721.3	3757.5
27.5°	7360.4	7309.7	6413.8	6143.3	5515.5	5003.5	4675.1	3851.7	3837.2	3871.0
30°	7751.6	7483.6	6565.9	6474.2	5822.2	5240.2	4069.0	4020.7	4020.7	4073.8
32.5°	8249.1	6988.5	6988.5	6940.2	6201.3	4600.3	4283.9	4254.9	4288.7	4310.5
35°	8174.2	7517.4	7594.7	7572.9	6715.7	4684.8	4629.2	4580.9	4588.2	4588.2
37.5°	8198.4	8224.9	8316.7	8222.5	5858.4	5051.8	4962.5	4952.8	4960.1	4977.0
40°	8956.6	8971.1	9004.9	8797.2	6295.5	5479.3	5356.1	5332.0	5356.1	5392.3
42.5°	9772.8	9813.9	9852.5	8000.3	6906.4	5964.6	5841.5	5795.6	5839.1	5877.7
45°	10738.8	10801.6	10209.9	8707.9	7597.1	6517.6	6387.2	6331.7	6358.3	6392.1
47.5°	11825.4	11924.5	9627.9	9608.6	8408.5	7172.1	7022.3	6916.1	6957.1	6954.7
50°	13052.2	11395.6	10637.3	10625.3	9314.0	7901.3	7746.8	7650.2	7681.6	7657.4
52.5°	14377.9	11707.1	11731.3	11728.9	10260.6	8686.2	8543.7	8422.9	8174.2	8403.6
55°	15735.1	12784.1	12875.9	12861.4	11253.1	9497.5	9345.4	9231.9	6032.3	5095.3
57.5°	17085.0	13909.4	13938.4	13972.2	12281.8	10280.0	9611.0	8828.6	3441.1	3424.2
60°	18417.9	14981.6	15039.6	15058.9	12837.3	8509.9	3928.9	4001.4	1040.8	1243.6
62.5°	19799.2	16039.3	16092.5	16075.6	13390.3	7913.4	4127.0	4044.8	96.6	89.3
65°	21562.1	17365.1	17290.2	17234.7	14262.0	8444.7	4433.6	4411.9	31.4	21.7
67.5°	22180.3	17666.9	17514.8	17495.5	14387.6	8558.2	4457.8	4440.9	31.4	21.7
70°	20779.7	16519.9	16259.1	16266.3	13387.8	8005.2	4158.3	4134.2	29.0	21.7
72.5°	18198.2	14590.4	14481.8	13907.0	11593.6	7041.7	3687.5	3595.7	29.0	19.3
75°	14940.6	11786.8	11545.3	10900.6	9227.1	5597.6	2895.4	2777.1	26.6	16.9
77.5°	10371.7	8266.0	7804.7	7147.9	6172.3	3711.6	1946.4	1794.2	24.1	16.9
80°	4701.7	3392.8	3409.7	2612.9	2093.7	1258.1	618.2	560.2	21.7	14.5
82.5°	818.6	603.7	567.5	548.2	456.4	309.1	188.4	161.8	19.3	9.7
85°	285.0	229.4	253.6	299.4	265.6	185.9	115.9	111.1	12.1	4.8
87.5°	96.6	101.4	118.3	142.5	125.6	72.4	43.5	31.4	2.4	0.0
90°	9.7	12.1	12.1	12.1	7.2	0.0	0.0	0.0	0.0	0.0
92.5°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	2.4	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	2.4	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	2.4	2.4	2.4	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)