

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: P579529

Luminaire Tested: **CST-CA10-310-750-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579529
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-CA10-310-750-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: 38758 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U2 - G4

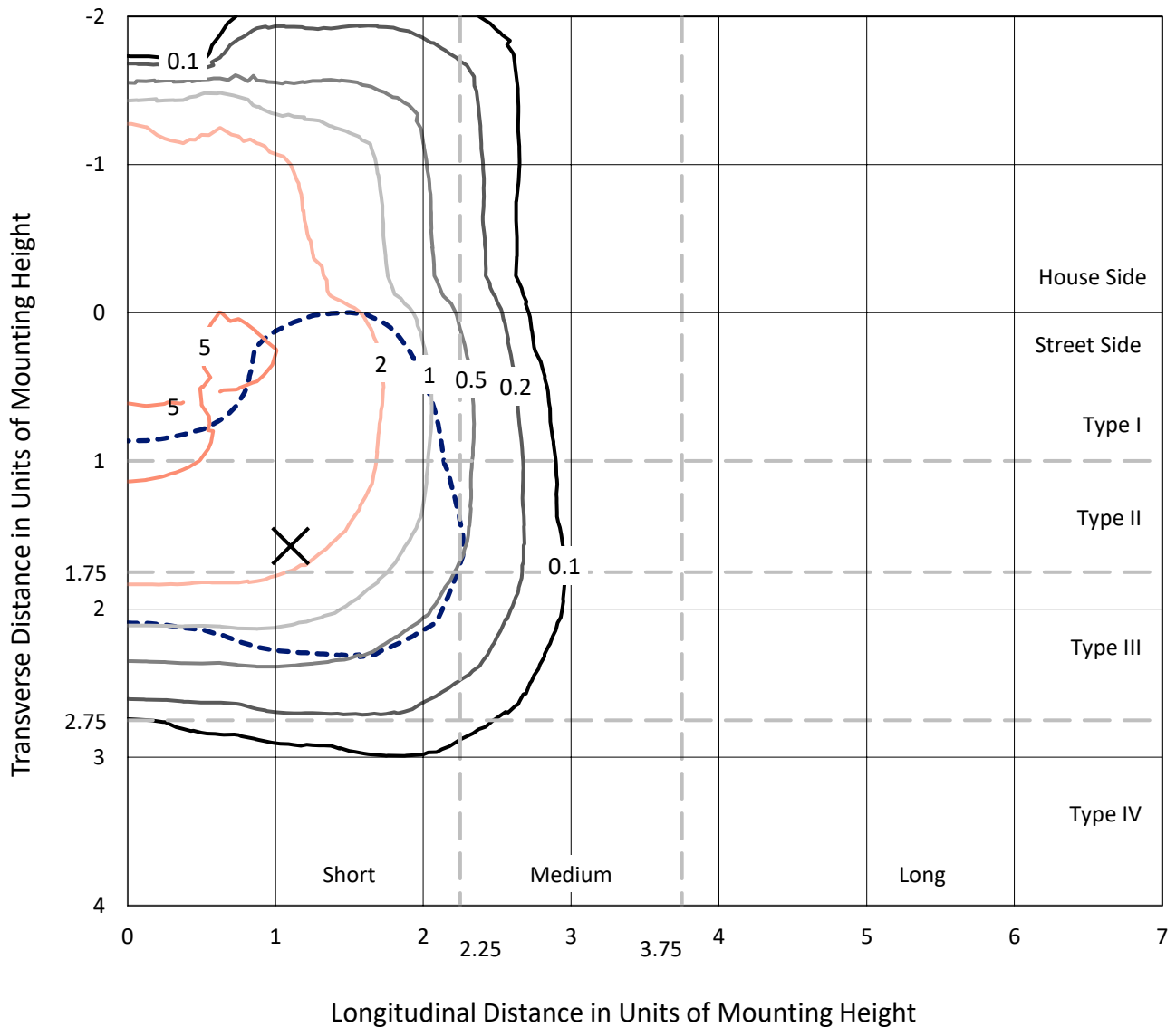
Input Watts (W): 312.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

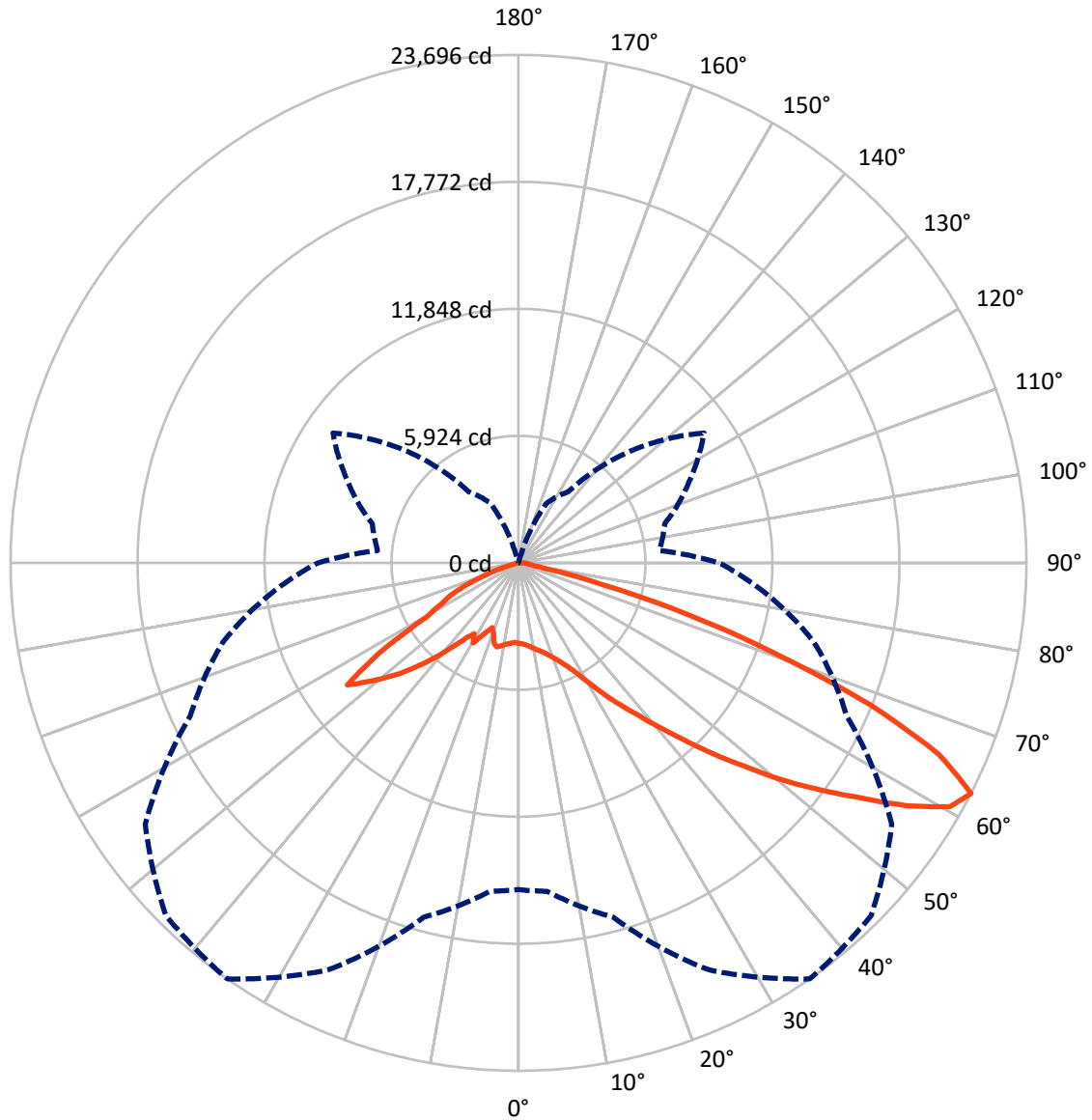
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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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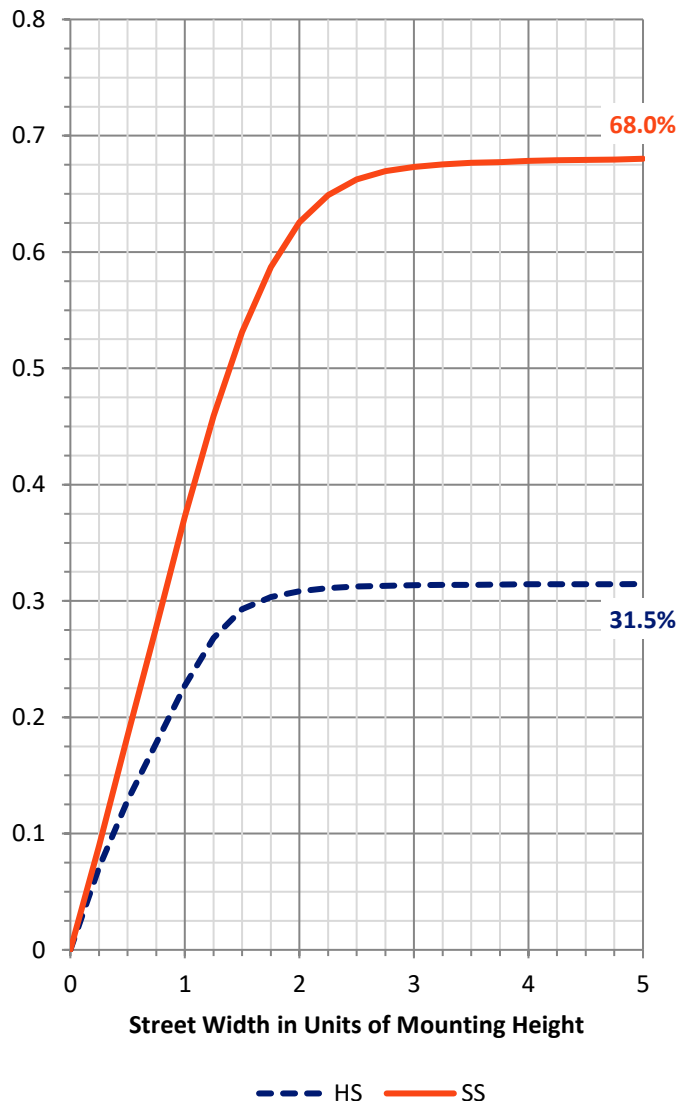
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12261.4	0.0	12261.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	26474.5	22.1	26496.6
	% Fixture	68.3	0.1	68.4
Total	Lumens	38735.9	22.2	38758.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.0	1.0
10°-20°	1192.8	3.1
20°-30°	2214.8	5.7
30°-40°	4366.7	11.3
40°-50°	7838.7	20.2
50°-60°	11394.4	29.4
60°-70°	9364.4	24.2
70°-80°	1780.0	4.6
80°-90°	213.1	0.5
90°-100°	20.2	0.1
100°-110°	1.9	0.0
110°-120°	0.0	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°	38735.9	99.9
0°-180°	38758.0	100.0

Coefficient of Utilization

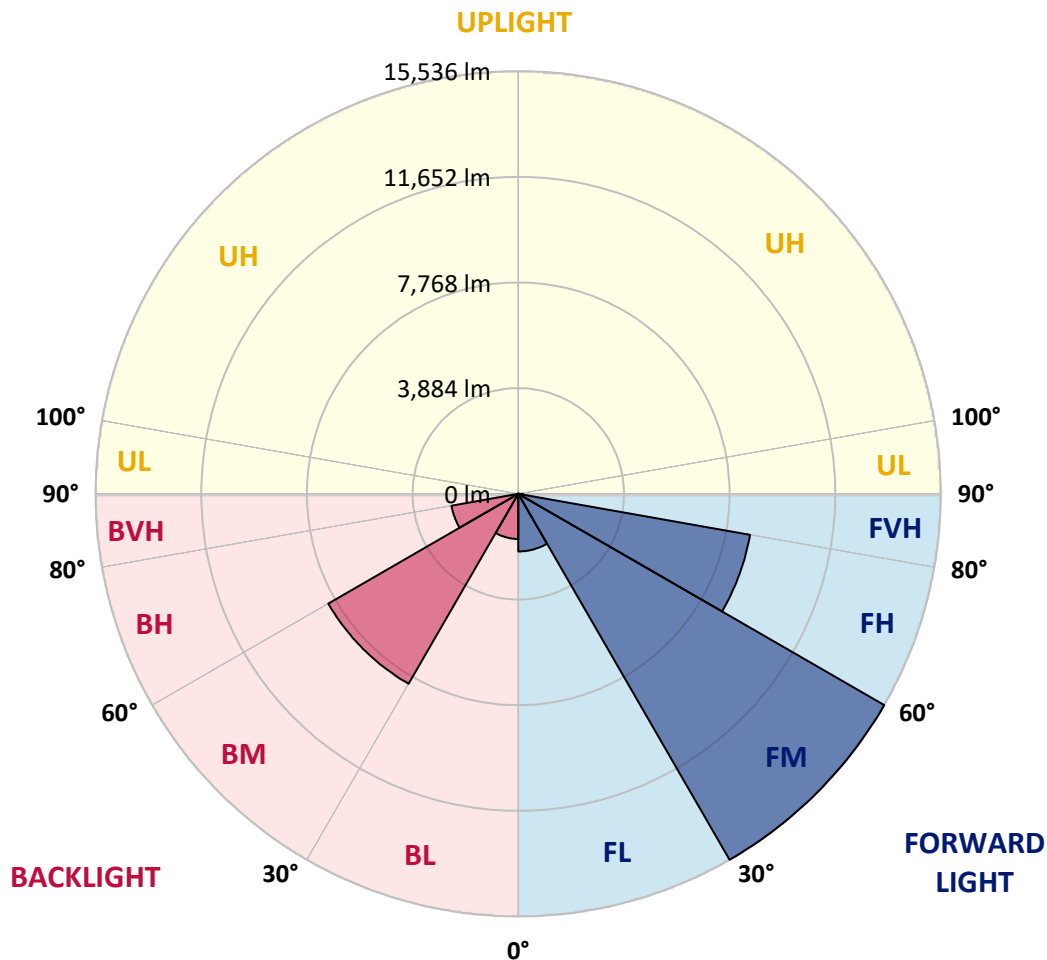


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2118.3	5.5			
FM	(30°-60°)	15536.0	40.1			
FH	(60°-80°)	8651.7	22.3			G4/12000
FVH	(80°-90°)	168.5	0.4			G2/225
BL	(0°-30°)	1660.2	4.3	B3/2500		
BM	(30°-60°)	8063.8	20.8	B4/8500		
BH	(60°-80°)	2492.7	6.4	B3/2500		G3/2500
BVH	(80°-90°)	44.6	0.1			G1/100
UL	(90°-100°)	20.2	0.1		U2/50	
UH	(100°-180°)	2.0	0.0		U1/10	

BUG Rating: B4-U2-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3762.1	3762.1	3762.1	3762.1	3762.1	3762.1	3762.1	3762.1	3762.1	3762.1	3762.1
2.5°	3858.2	3826.7	3829.8	3853.4	3782.5	3806.2	3773.1	3801.4	3788.8	3801.4	3809.3
5°	3935.4	3896.0	3894.4	3918.0	3861.3	3875.5	3837.7	3856.6	3839.3	3855.0	3855.0
7.5°	4029.9	3996.8	3988.9	4007.8	3957.4	3963.7	3925.9	3933.8	3913.3	3933.8	3918.0
10°	4148.0	4118.1	4105.5	4115.0	4069.3	4072.4	4031.5	4034.6	4004.7	4022.0	4009.4
12.5°	4272.5	4231.5	4225.2	4241.0	4193.7	4187.4	4152.8	4155.9	4122.8	4138.6	4129.1
15°	4401.7	4359.1	4360.7	4376.5	4329.2	4332.4	4296.1	4302.4	4269.3	4285.1	4272.5
17.5°	4573.4	4530.9	4527.7	4556.1	4516.7	4529.3	4491.5	4499.4	4475.7	4478.9	4464.7
20°	4819.2	4764.0	4753.0	4794.0	4742.0	4757.7	4737.2	4764.0	4754.6	4746.7	4735.7
22.5°	5112.2	5069.6	5047.6	5079.1	5017.7	5047.6	5058.6	5113.8	5127.9	5118.5	4945.2
25°	5504.5	5482.4	5460.3	5446.2	5372.1	5419.4	5476.1	5567.5	5627.3	5651.0	5409.9
27.5°	6033.8	6044.8	5948.7	5933.0	5849.5	5923.5	6025.9	6174.0	6295.3	6339.4	6014.9
30°	6714.4	6728.5	6597.8	6560.0	6509.6	6572.6	6763.2	6925.5	7105.1	7179.1	6745.9
32.5°	7618.6	7606.0	7413.8	7341.4	7295.7	7320.9	7521.0	7743.1	7944.8	8111.8	7579.3
35°	8723.0	8683.6	8478.8	8278.7	8097.6	8174.8	8321.3	8590.7	8896.3	9142.1	8401.6
37.5°	10005.4	9967.6	9655.6	9329.5	8971.9	9005.0	9135.8	9575.3	9969.2	10033.7	8261.4
40°	11330.3	11314.5	11019.9	10605.6	10049.5	9893.5	10066.8	10602.5	11018.4	9892.0	8587.5
42.5°	12653.6	12578.0	12412.6	11998.3	11257.8	10914.4	11147.6	11683.2	12130.6	10370.9	9343.7
45°	13988.0	13910.8	13770.6	13466.5	12696.2	12196.8	12264.5	12858.4	13263.3	11268.9	10131.4
47.5°	15172.7	15116.0	15015.2	14845.0	14158.1	13706.0	13575.2	13991.2	14266.9	11998.3	10736.4
50°	16193.6	16144.7	16184.1	16127.4	15925.8	15451.6	15019.9	14993.1	15125.4	12647.3	11292.5
52.5°	17091.5	17025.4	17193.9	17394.0	17579.9	17474.4	16429.9	15943.1	15823.3	13134.1	11665.9
55°	17833.6	17809.9	18099.8	18640.2	19347.5	19624.8	17937.5	16820.6	16447.2	13546.9	11700.5
57.5°	18277.8	18334.5	18947.4	19993.4	21376.6	21507.4	19702.0	17753.2	16997.0	13797.4	11865.9
60°	17518.5	17710.7	18813.5	21008.0	23103.3	23160.0	20970.2	17939.1	16277.1	12896.3	10982.1
62.5°	15243.6	15382.2	17116.8	20943.4	23695.6	23264.0	21253.8	16889.9	14265.3	10939.6	9340.6
65°	10771.0	10931.7	13022.3	18885.9	21557.8	21573.6	19468.8	14605.6	11402.8	8469.4	7212.2
67.5°	6497.0	6756.9	8737.2	13710.7	17750.1	18073.0	16242.4	11057.8	8160.6	5529.7	4667.9
70°	2131.5	2369.4	3988.9	8114.9	12795.4	14178.6	12198.3	7185.4	4261.5	2337.9	1882.6
72.5°	844.4	953.1	1405.3	3588.8	8245.7	9466.6	7516.2	3472.2	1430.5	620.7	540.4
75°	564.0	575.0	649.1	1222.5	4034.6	5176.8	3623.4	1009.8	530.9	387.5	340.3
77.5°	491.5	493.1	526.2	644.3	1313.9	1985.0	1042.9	541.9	439.5	318.2	282.0
80°	450.6	456.9	477.3	549.8	601.8	674.3	515.2	452.1	381.2	293.0	266.2
82.5°	431.7	436.4	449.0	497.8	486.8	505.7	415.9	359.2	321.4	269.4	255.2
85°	393.9	401.7	409.6	439.5	400.2	346.6	321.4	241.0	230.0	203.2	187.5
87.5°	297.8	296.2	288.3	293.0	267.8	219.0	181.2	135.5	110.3	91.4	75.6
90°	124.5	126.0	121.3	115.0	100.8	83.5	63.0	37.8	18.9	6.3	3.2
92.5°	94.5	96.1	92.9	83.5	72.5	58.3	42.5	22.1	12.6	4.7	1.6
95°	58.3	59.9	56.7	50.4	44.1	33.1	22.1	14.2	7.9	3.2	0.0
97.5°	34.7	36.2	33.1	29.9	23.6	15.8	12.6	9.5	6.3	3.2	0.0
100°	20.5	20.5	18.9	15.8	11.0	9.5	7.9	6.3	4.7	1.6	0.0
102.5°	9.5	9.5	9.5	6.3	4.7	4.7	4.7	4.7	4.7	1.6	0.0
105°	3.2	3.2	1.6	1.6	1.6	3.2	3.2	3.2	3.2	1.6	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	3.2	1.6	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	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°	3762.1	3762.1	3762.1	3762.1	3762.1	3762.1	3762.1	3762.1	3762.1	3762.1
2.5°	3801.4	3771.5	3776.2	3749.5	3743.2	3714.8	3765.2	3769.9	3755.8	3769.9
5°	3848.7	3812.5	3821.9	3792.0	3784.1	3744.7	3785.7	3782.5	3771.5	3785.7
7.5°	3918.0	3877.1	3881.8	3847.1	3839.3	3795.1	3833.0	3821.9	3809.3	3826.7
10°	4006.3	3966.9	3968.4	3921.2	3916.5	3866.0	3914.9	3894.4	3875.5	3900.7
12.5°	4129.1	4074.0	4069.3	4017.3	4015.7	3963.7	4014.1	3996.8	3971.6	4011.0
15°	4270.9	4196.9	4178.0	4111.8	4110.2	4055.1	4105.5	4078.7	4066.1	4113.4
17.5°	4455.2	4362.3	4218.9	3993.6	3891.2	3908.6	4086.6	4151.2	3982.6	4007.8
20°	4567.1	4116.5	3907.0	3814.1	3765.2	3484.8	3105.1	3136.6	3510.0	3688.0
22.5°	4378.0	4244.1	4166.9	4036.2	3355.6	3259.5	3281.6	3275.3	2793.2	2649.8
25°	4771.9	4645.9	4505.7	3699.0	3558.8	3517.9	3528.9	3076.8	2813.7	2824.7
27.5°	5339.0	5176.8	4288.2	3938.5	3910.2	3850.3	3632.9	3089.4	3122.4	3144.5
30°	6055.8	5479.3	4567.1	4414.3	4357.6	4293.0	3371.4	3451.7	3513.1	3580.9
32.5°	6749.0	5329.6	5101.2	4942.0	4853.8	3897.5	3803.0	3951.1	4012.6	4070.8
35°	6686.0	5970.8	5674.6	5473.0	5307.5	4206.3	4289.8	4515.1	4677.4	4675.8
37.5°	6859.3	6668.7	6326.8	6071.6	4606.5	4712.0	4886.9	5143.7	5340.6	5339.0
40°	7582.4	7376.0	7054.7	6506.4	5104.3	5350.1	5589.5	5830.6	5972.4	5983.4
42.5°	8300.8	8141.7	7851.8	5747.1	5714.0	6054.3	6304.8	6457.6	6544.2	6574.2
45°	9016.0	8866.4	7714.7	6356.8	6457.6	6794.7	6947.5	6977.5	7070.4	7067.3
47.5°	9584.8	9457.1	7097.2	7081.4	7331.9	7565.1	7516.2	7478.4	7502.1	7514.7
50°	10109.4	8233.1	7651.7	7881.7	8263.0	8291.3	8088.1	6407.2	7932.2	7905.4
52.5°	9391.0	8034.6	8168.5	8707.3	9356.3	9027.1	8630.1	5616.3	7439.1	8146.4
55°	8217.3	8352.8	8655.3	9559.5	10200.7	9810.0	9146.8	5783.3	4937.3	4018.9
57.5°	8381.1	8595.4	9170.4	10419.7	10979.0	7769.9	8537.1	4077.1	2760.1	2758.5
60°	7804.5	8129.1	9159.4	10805.7	8886.8	4978.3	3420.2	92.9	535.6	530.9
62.5°	6597.8	7059.4	8738.8	10561.5	7361.9	4045.6	3046.8	7.9	3.2	3.2
65°	5102.7	5646.2	7286.2	9145.2	6522.2	3484.8	2262.3	0.0	0.0	0.0
67.5°	3346.2	3850.3	5471.4	7596.6	5414.7	2634.1	1520.3	0.0	0.0	0.0
70°	1394.2	2016.5	3399.7	5490.3	3982.6	1725.1	721.5	0.0	0.0	0.0
72.5°	403.3	614.4	1531.3	3278.4	2471.8	902.7	267.8	0.0	0.0	0.0
75°	266.2	280.4	463.2	1318.6	1202.0	330.8	108.7	0.0	0.0	0.0
77.5°	223.7	230.0	294.6	368.6	386.0	130.8	88.2	0.0	0.0	0.0
80°	206.4	208.0	264.7	274.1	206.4	108.7	86.6	0.0	0.0	0.0
82.5°	192.2	187.5	225.3	217.4	171.7	94.5	80.3	0.0	0.0	0.0
85°	132.3	135.5	152.8	193.8	104.0	47.3	56.7	0.0	0.0	0.0
87.5°	41.0	47.3	59.9	61.4	18.9	6.3	0.0	0.0	0.0	0.0
90°	1.6	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)