

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: P579577

Luminaire Tested: **CST-CA10-310-760-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579577
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-CA10-310-760-U-T5N-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: 37936 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U2 - G4

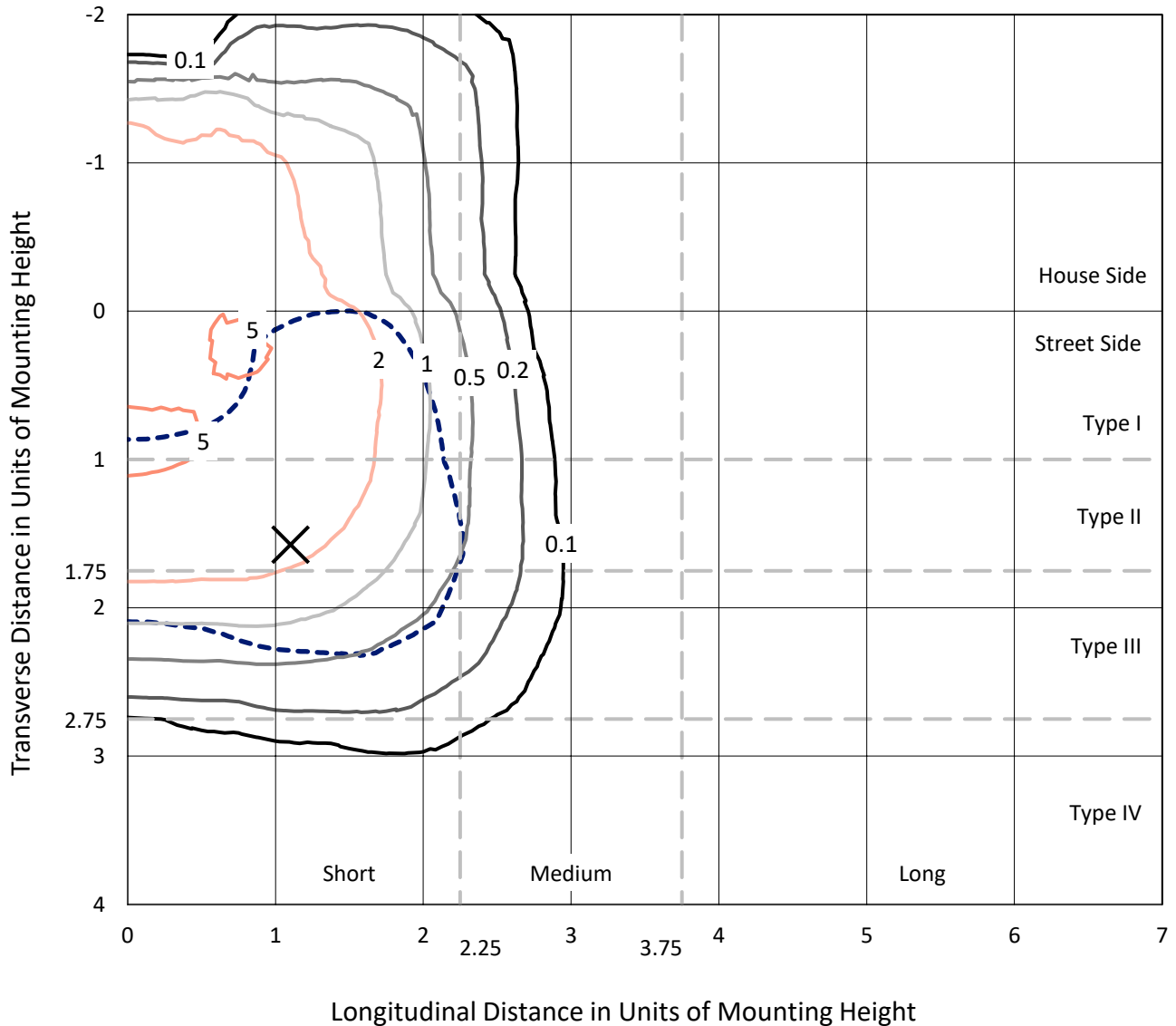
Input Watts (W): 312.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

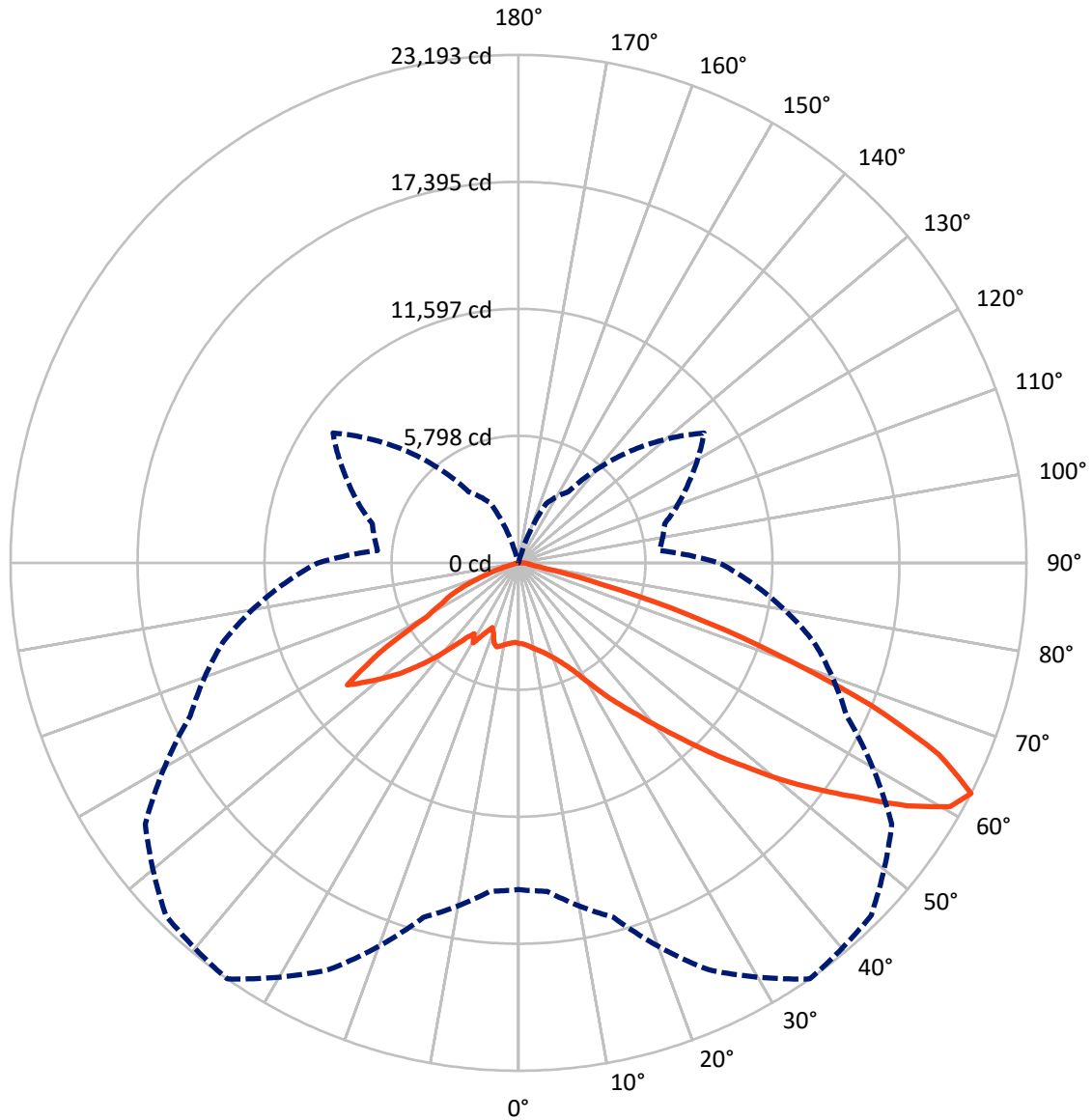
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 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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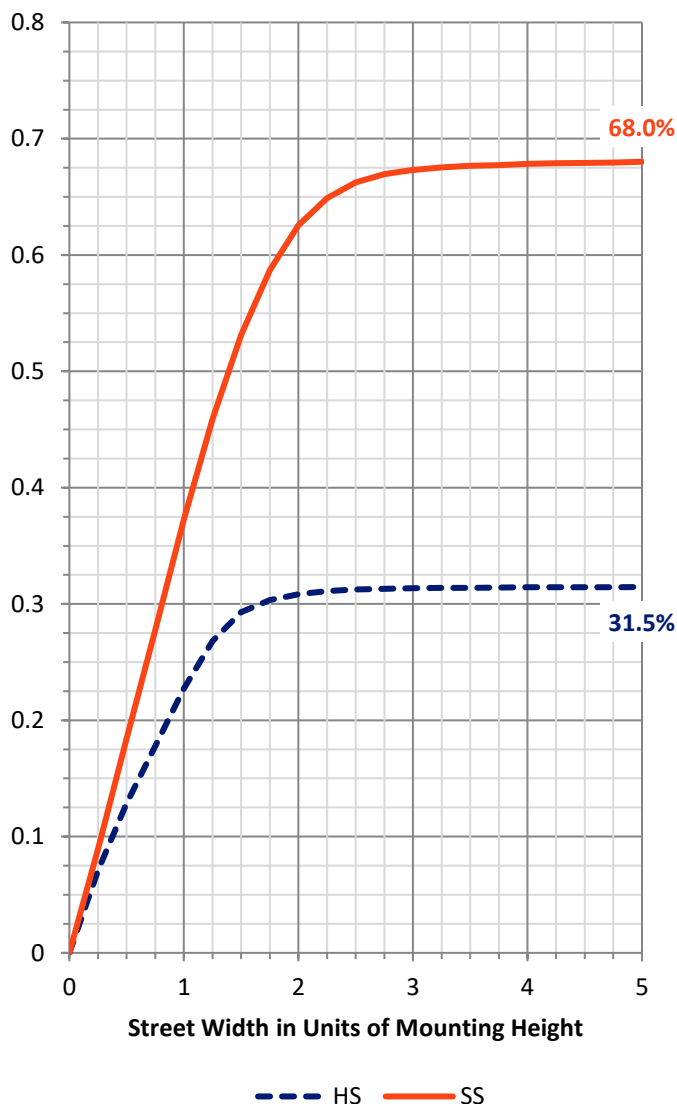
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12001.3	0.0	12001.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	25913.0	21.6	25934.6
	% Fixture	68.3	0.1	68.4
Total	Lumens	37914.3	21.7	37936.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.1	1.0
10°-20°	1167.5	3.1
20°-30°	2167.9	5.7
30°-40°	4274.1	11.3
40°-50°	7672.5	20.2
50°-60°	11152.8	29.4
60°-70°	9165.8	24.2
70°-80°	1742.3	4.6
80°-90°	208.6	0.5
90°-100°	19.7	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°	37914.3	99.9
0°-180°	37936.0	100.0

Coefficient of Utilization

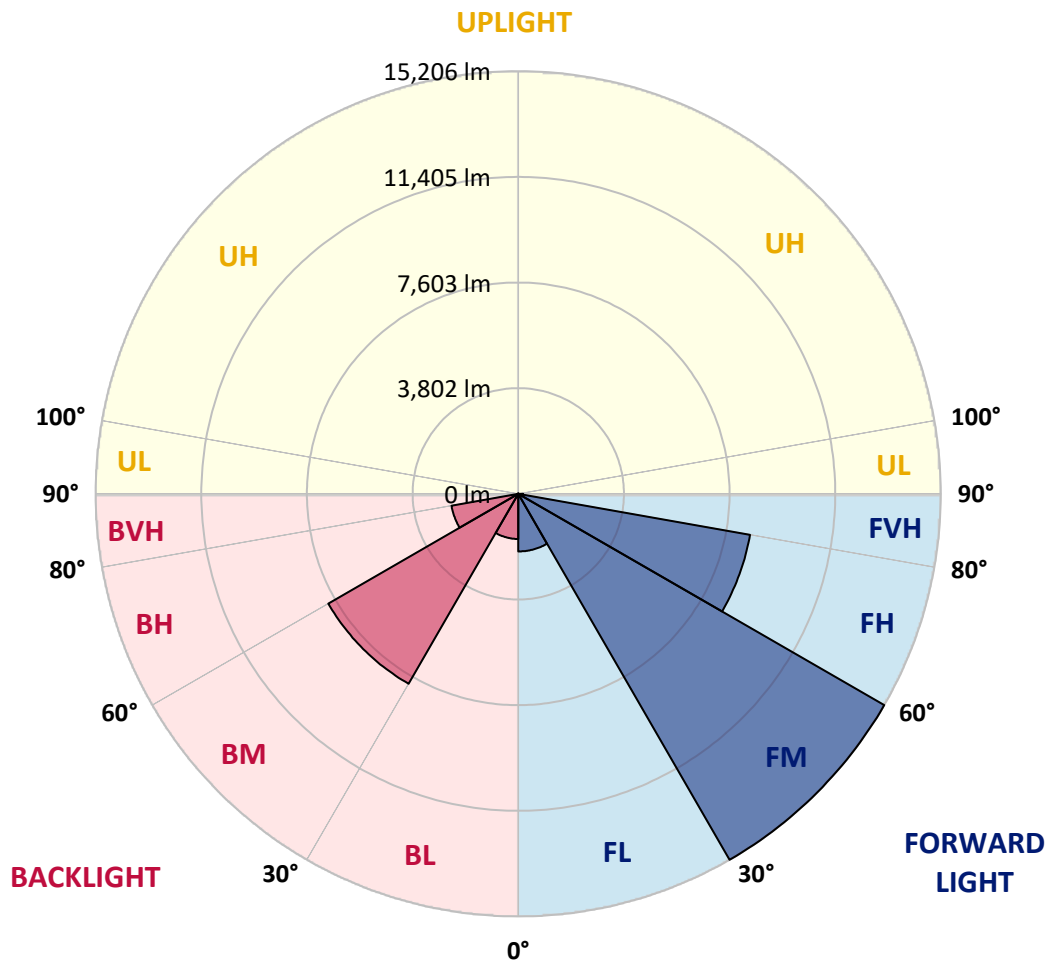


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2073.4	5.5			
FM (30°-60°)	15206.5	40.1			
FH (60°-80°)	8468.2	22.3			G4/12000
FVH (80°-90°)	164.9	0.4			G2/225
BL (0°-30°)	1625.0	4.3	B3/2500		
BM (30°-60°)	7892.8	20.8	B4/8500		
BH (60°-80°)	2439.8	6.4	B3/2500		G3/2500
BVH (80°-90°)	43.6	0.1			G1/100
UL (90°-100°)	19.7	0.1		U2/50	
UH (100°-180°)	1.9	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°	3682.3	3682.3	3682.3	3682.3	3682.3	3682.3	3682.3	3682.3	3682.3	3682.3	3682.3
2.5°	3776.3	3745.5	3748.6	3771.7	3702.3	3725.5	3693.1	3720.8	3708.5	3720.8	3728.5
5°	3851.9	3813.3	3811.8	3834.9	3779.4	3793.3	3756.3	3774.8	3757.8	3773.3	3773.3
7.5°	3944.4	3912.0	3904.3	3922.8	3873.5	3879.6	3842.6	3850.4	3830.3	3850.4	3834.9
10°	4060.1	4030.8	4018.4	4027.7	3983.0	3986.0	3946.0	3949.0	3919.7	3936.7	3924.4
12.5°	4181.9	4141.8	4135.6	4151.0	4104.8	4098.6	4064.7	4067.8	4035.4	4050.8	4041.6
15°	4308.3	4266.7	4268.2	4283.7	4237.4	4240.5	4205.0	4211.2	4178.8	4194.2	4181.9
17.5°	4476.4	4434.8	4431.7	4459.4	4420.9	4433.2	4396.2	4403.9	4380.8	4383.9	4370.0
20°	4717.0	4663.0	4652.2	4692.3	4641.4	4656.8	4636.8	4663.0	4653.7	4646.0	4635.2
22.5°	5003.8	4962.1	4940.5	4971.4	4911.2	4940.5	4951.3	5005.3	5019.2	5009.9	4840.3
25°	5387.7	5366.1	5344.5	5330.7	5258.2	5304.4	5360.0	5449.4	5508.0	5531.1	5295.2
27.5°	5905.8	5916.6	5822.6	5807.1	5725.4	5797.9	5898.1	6043.1	6161.8	6205.0	5887.3
30°	6572.0	6585.8	6457.9	6420.9	6371.5	6433.2	6619.8	6778.6	6954.4	7026.9	6602.8
32.5°	7457.1	7444.7	7256.6	7185.7	7141.0	7165.6	7361.5	7578.9	7776.3	7939.7	7418.5
35°	8538.0	8499.5	8299.0	8103.2	7925.8	8001.4	8144.8	8408.5	8707.6	8948.2	8223.4
37.5°	9793.2	9756.2	9450.9	9131.7	8781.6	8814.0	8942.0	9372.2	9757.7	9820.9	8086.2
40°	11090.0	11074.6	10786.2	10380.7	9836.4	9683.7	9853.3	10377.6	10784.7	9682.2	8405.4
42.5°	12385.3	12311.3	12149.3	11743.8	11019.1	10682.9	10911.1	11435.4	11873.3	10150.9	9145.5
45°	13691.3	13615.8	13478.5	13180.9	12426.9	11938.1	12004.4	12585.7	12982.0	11029.9	9916.5
47.5°	14850.9	14795.4	14696.7	14530.2	13857.9	13415.3	13287.3	13694.4	13964.3	11743.8	10508.7
50°	15850.1	15802.3	15840.9	15785.4	15588.0	15123.8	14701.3	14675.1	14804.7	12379.1	11053.0
52.5°	16729.1	16664.3	16829.3	17025.1	17207.1	17103.8	16081.4	15605.0	15487.8	12855.6	11418.4
55°	17455.3	17432.2	17715.9	18244.8	18937.2	19208.6	17557.1	16463.8	16098.4	13259.6	11452.4
57.5°	17890.2	17945.7	18545.5	19569.4	20923.3	21051.3	19284.1	17376.7	16636.5	13504.8	11614.3
60°	17146.9	17335.1	18414.5	20562.5	22613.3	22668.8	20525.4	17558.7	15931.9	12622.7	10749.2
62.5°	14920.3	15056.0	16753.7	20499.2	23193.1	22770.6	20803.0	16531.7	13962.7	10707.6	9142.5
65°	10542.6	10699.9	12746.1	18485.4	21100.6	21116.0	19055.9	14295.8	11160.9	8289.7	7059.2
67.5°	6359.2	6613.6	8551.9	13419.9	17373.6	17689.7	15897.9	10823.2	7987.5	5412.4	4568.9
70°	2086.3	2319.2	3904.3	7942.8	12524.1	13877.9	11939.6	7033.0	4171.1	2288.3	1842.7
72.5°	826.5	932.9	1375.5	3512.7	8070.8	9265.8	7356.8	3398.5	1400.1	607.5	528.9
75°	552.0	562.8	635.3	1196.6	3949.0	5067.0	3546.6	988.4	519.7	379.3	333.1
77.5°	481.1	482.6	515.0	630.7	1286.0	1942.9	1020.8	530.4	430.2	311.5	276.0
80°	441.0	447.2	467.2	538.2	589.0	660.0	504.2	442.6	373.2	286.8	260.6
82.5°	422.5	427.1	439.5	487.3	476.5	495.0	407.1	351.6	314.6	263.7	249.8
85°	385.5	393.2	400.9	430.2	391.7	339.2	314.6	235.9	225.1	198.9	183.5
87.5°	291.4	289.9	282.2	286.8	262.1	214.3	177.3	132.6	107.9	89.4	74.0
90°	121.8	123.4	118.7	112.6	98.7	81.7	61.7	37.0	18.5	6.2	3.1
92.5°	92.5	94.1	91.0	81.7	70.9	57.1	41.6	21.6	12.3	4.6	1.5
95°	57.1	58.6	55.5	49.3	43.2	32.4	21.6	13.9	7.7	3.1	0.0
97.5°	33.9	35.5	32.4	29.3	23.1	15.4	12.3	9.3	6.2	3.1	0.0
100°	20.0	20.0	18.5	15.4	10.8	9.3	7.7	6.2	4.6	1.5	0.0
102.5°	9.3	9.3	9.3	6.2	4.6	4.6	4.6	4.6	4.6	1.5	0.0
105°	3.1	3.1	1.5	1.5	1.5	3.1	3.1	3.1	3.1	1.5	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.1	3.1	1.5	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	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°	3682.3	3682.3	3682.3	3682.3	3682.3	3682.3	3682.3	3682.3	3682.3	3682.3
2.5°	3720.8	3691.5	3696.2	3669.9	3663.8	3636.0	3685.4	3690.0	3676.1	3690.0
5°	3767.1	3731.6	3740.9	3711.6	3703.9	3665.3	3705.4	3702.3	3691.5	3705.4
7.5°	3834.9	3794.8	3799.5	3765.5	3757.8	3714.7	3751.7	3740.9	3728.5	3745.5
10°	3921.3	3882.7	3884.3	3838.0	3833.4	3784.0	3831.8	3811.8	3793.3	3818.0
12.5°	4041.6	3987.6	3983.0	3932.1	3930.5	3879.6	3929.0	3912.0	3887.4	3925.9
15°	4180.3	4107.9	4089.4	4024.6	4023.1	3969.1	4018.4	3992.2	3979.9	4026.1
17.5°	4360.8	4269.8	4129.5	3908.9	3808.7	3825.7	3999.9	4063.1	3898.2	3922.8
20°	4470.2	4029.2	3824.1	3733.2	3685.4	3410.9	3039.3	3070.1	3435.6	3609.8
22.5°	4285.2	4154.1	4078.6	3950.6	3284.4	3190.4	3212.0	3205.8	2734.0	2593.6
25°	4670.7	4547.3	4410.1	3620.6	3483.4	3443.3	3454.1	3011.5	2754.0	2764.8
27.5°	5225.8	5067.0	4197.3	3855.0	3827.2	3768.6	3555.8	3023.8	3056.2	3077.8
30°	5927.4	5363.0	4470.2	4320.7	4265.1	4201.9	3299.9	3378.5	3438.6	3504.9
32.5°	6605.9	5216.6	4993.0	4837.2	4750.9	3814.9	3722.4	3867.3	3927.5	3984.5
35°	6544.2	5844.1	5554.3	5356.9	5195.0	4117.1	4198.8	4419.3	4578.2	4576.6
37.5°	6713.8	6527.2	6192.6	5942.8	4508.8	4612.1	4783.3	5034.6	5227.4	5225.8
40°	7421.6	7219.6	6905.0	6368.4	4996.1	5236.6	5471.0	5706.9	5845.7	5856.5
42.5°	8124.8	7969.0	7685.3	5625.2	5592.8	5925.9	6171.0	6320.6	6405.4	6434.7
45°	8824.8	8678.3	7551.1	6221.9	6320.6	6650.6	6800.2	6829.5	6920.5	6917.4
47.5°	9381.5	9256.6	6946.7	6931.3	7176.4	7404.6	7356.8	7319.8	7343.0	7355.3
50°	9895.0	8058.4	7489.5	7714.6	8087.7	8115.5	7916.6	6271.3	7763.9	7737.7
52.5°	9191.8	7864.2	7995.2	8522.6	9157.9	8835.6	8447.0	5497.2	7281.3	7973.6
55°	8043.0	8175.6	8471.7	9356.8	9984.4	9602.0	8952.8	5660.6	4832.6	3933.6
57.5°	8203.4	8413.1	8975.9	10198.7	10746.1	7605.1	8356.1	3990.7	2701.6	2700.0
60°	7639.0	7956.7	8965.1	10576.5	8698.4	4872.7	3347.7	91.0	524.3	519.7
62.5°	6457.9	6909.7	8553.4	10337.5	7205.7	3959.8	2982.2	7.7	3.1	3.1
65°	4994.5	5526.5	7131.7	8951.3	6383.8	3410.9	2214.3	0.0	0.0	0.0
67.5°	3275.2	3768.6	5355.3	7435.5	5299.8	2578.2	1488.0	0.0	0.0	0.0
70°	1364.7	1973.7	3327.6	5373.8	3898.2	1688.5	706.2	0.0	0.0	0.0
72.5°	394.7	601.4	1498.8	3208.9	2419.4	883.6	262.1	0.0	0.0	0.0
75°	260.6	274.5	453.3	1290.6	1176.5	323.8	106.4	0.0	0.0	0.0
77.5°	219.0	225.1	288.4	360.8	377.8	128.0	86.4	0.0	0.0	0.0
80°	202.0	203.5	259.1	268.3	202.0	106.4	84.8	0.0	0.0	0.0
82.5°	188.1	183.5	220.5	212.8	168.1	92.5	78.6	0.0	0.0	0.0
85°	129.5	132.6	149.6	189.7	101.8	46.3	55.5	0.0	0.0	0.0
87.5°	40.1	46.3	58.6	60.1	18.5	6.2	0.0	0.0	0.0	0.0
90°	1.5	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)