

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: P579575

Luminaire Tested: **CST-CA10-310-760-U-T5-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-3)
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-T5-HSS-HM-EX180
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: 29783 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - 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

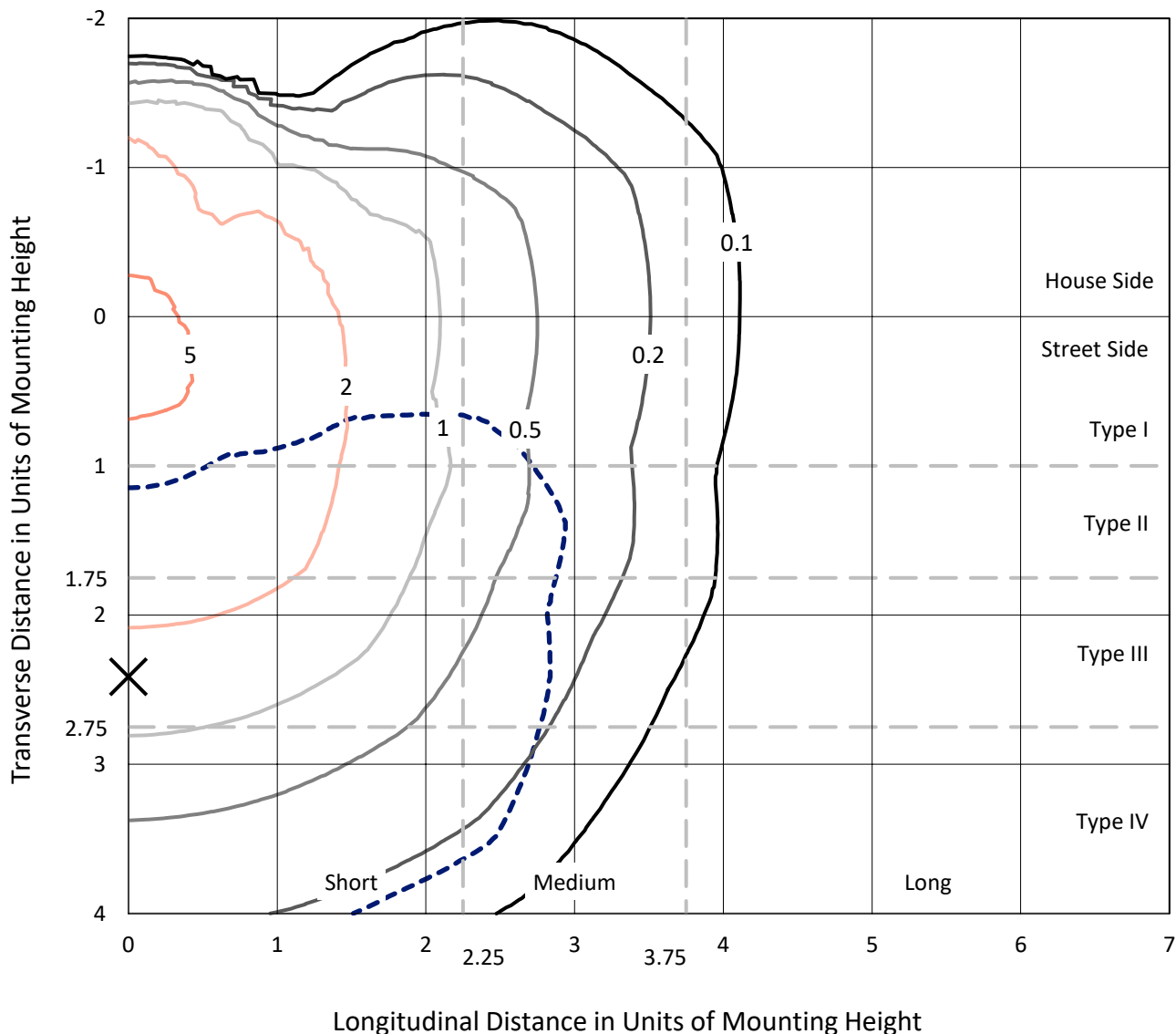




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Iso-Footcandle Lines of Horizontal Illumination

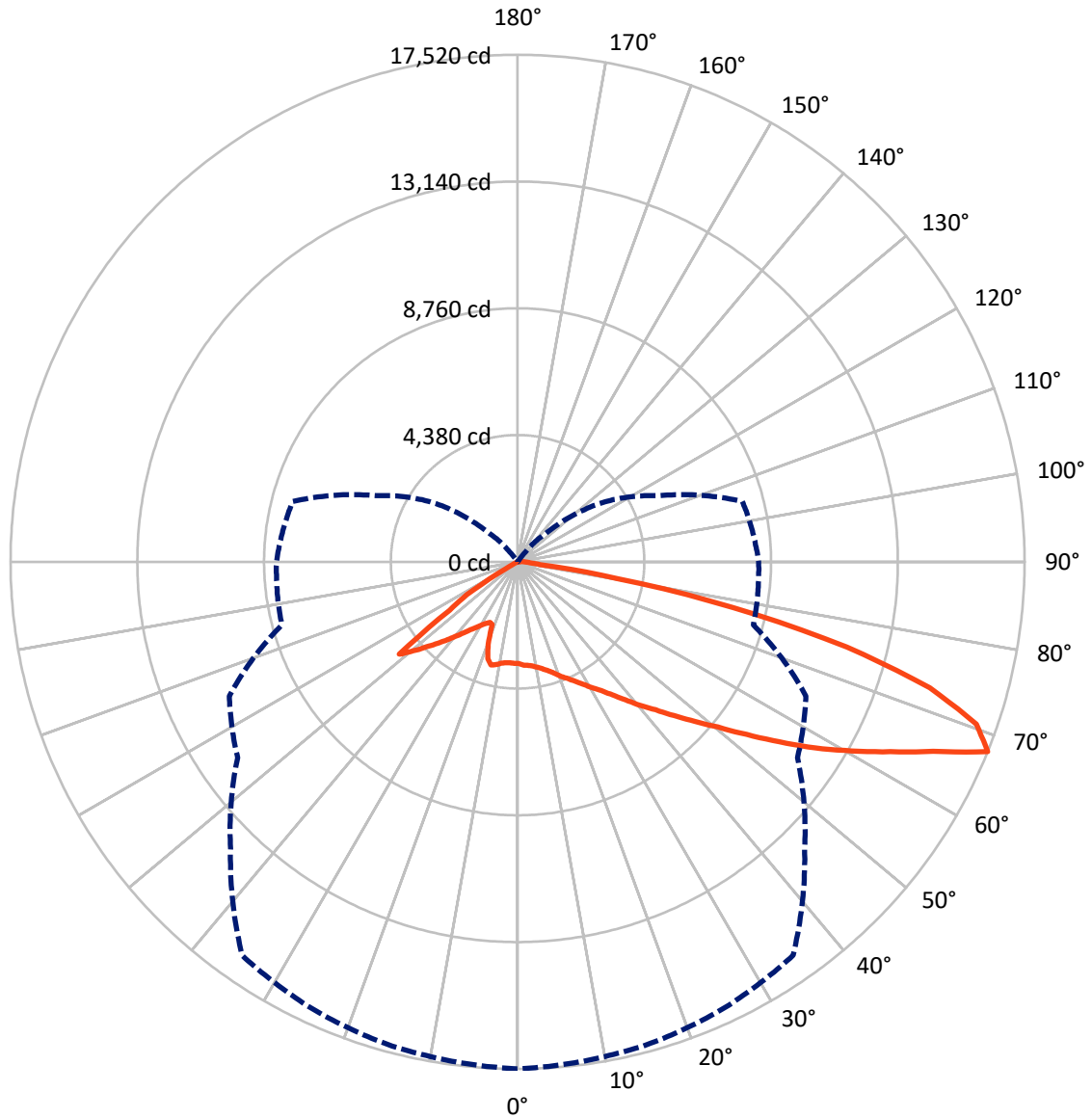
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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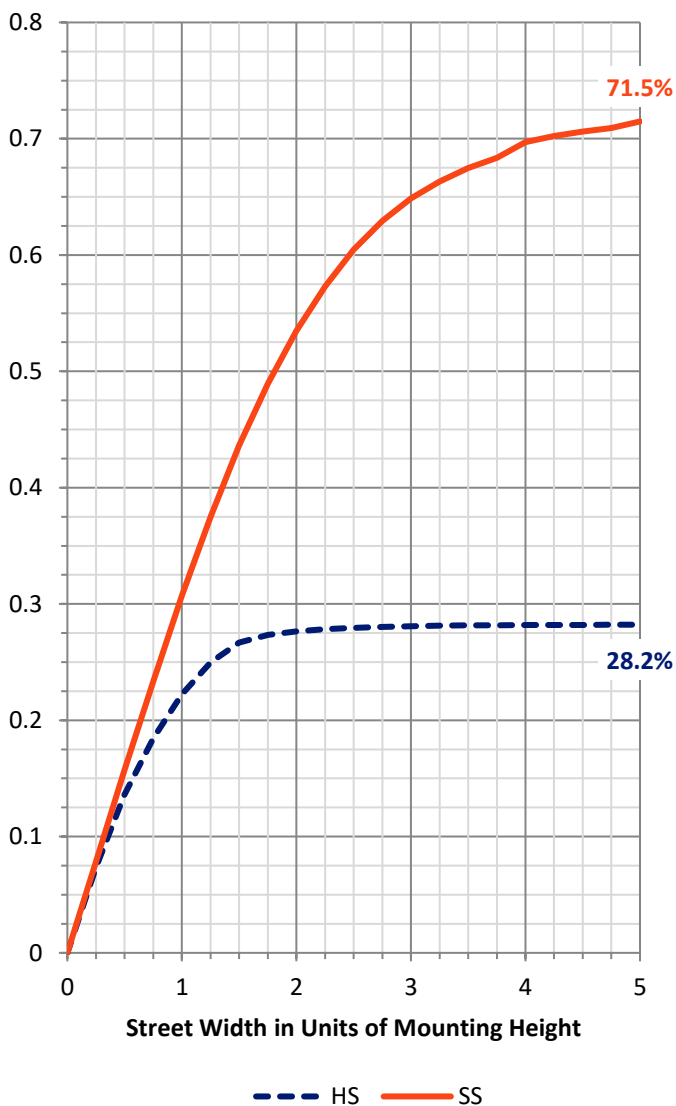
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8441.1	0.1	8441.2
	% Fixture	28.3	0.0	28.3
Street Side	Lumens	21303.9	37.9	21341.8
	% Fixture	71.5	0.1	71.7
Total	Lumens	29744.9	38.1	29783.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.3	1.1
10°-20°	1041.4	3.5
20°-30°	1724.3	5.8
30°-40°	2714.4	9.1
40°-50°	4248.0	14.3
50°-60°	6133.4	20.6
60°-70°	7598.2	25.5
70°-80°	5533.6	18.6
80°-90°	413.4	1.4
90°-100°	32.5	0.1
100°-110°	5.4	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°	29744.9	99.9
0°-180°	29783.0	100.0

Coefficient of Utilization

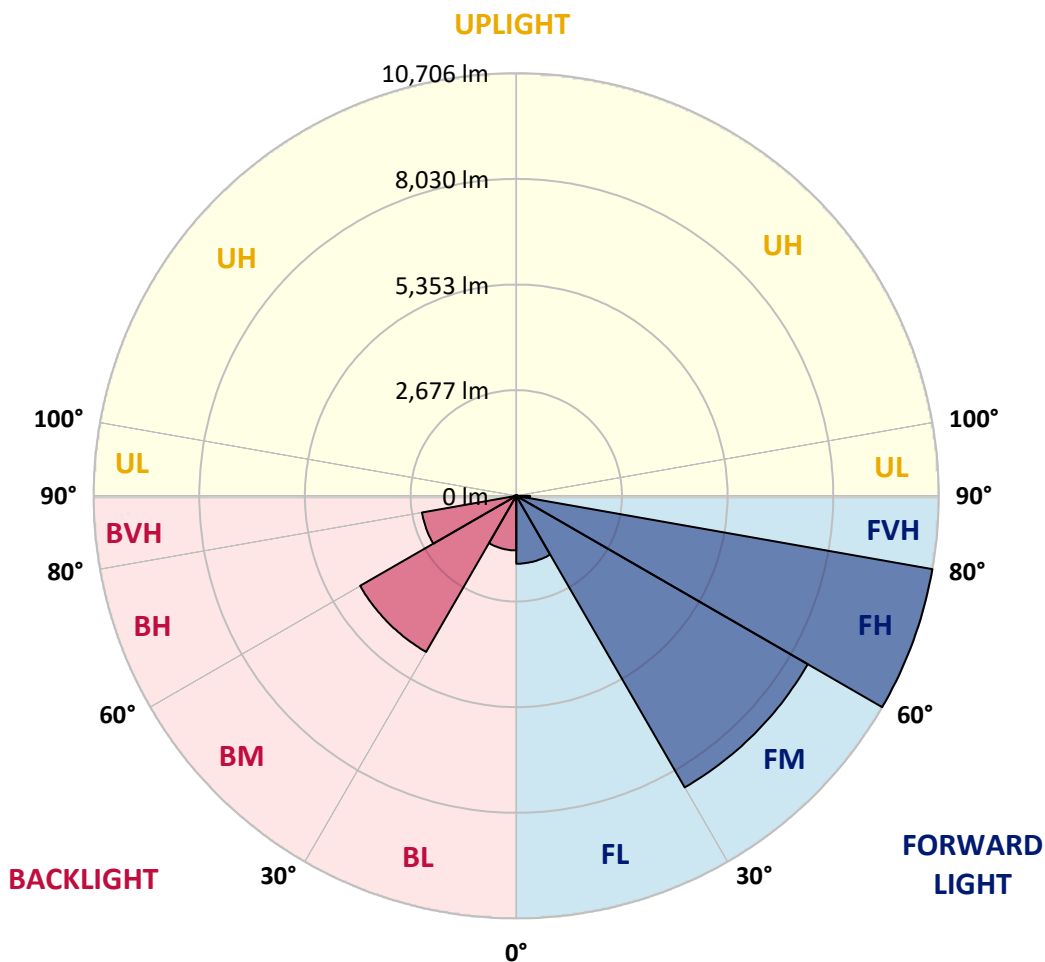


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1720.2	5.8			
FM	(30°-60°)	8529.0	28.6			
FH	(60°-80°)	10706.0	35.9			G4/12000
FVH	(80°-90°)	348.7	1.2			G3/500
BL	(0°-30°)	1383.7	4.6	B3/2500		
BM	(30°-60°)	4566.8	15.3	B3/5000		
BH	(60°-80°)	2425.8	8.1	B3/2500		G3/2500
BVH	(80°-90°)	64.7	0.2			G1/100
UL	(90°-100°)	32.5	0.1		U2/50	
UH	(100°-180°)	5.6	0.0		U1/10	

BUG Rating: B3-U2-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3507.7	3507.7	3507.7	3507.7	3507.7	3507.7	3507.7	3507.7	3507.7	3507.7	3507.7
2.5°	3571.9	3552.4	3552.4	3573.3	3515.1	3533.0	3509.2	3530.1	3518.1	3524.1	3531.6
5°	3592.8	3570.4	3571.9	3597.2	3545.0	3559.9	3531.6	3542.0	3531.6	3536.0	3536.0
7.5°	3631.6	3612.2	3612.2	3627.1	3574.8	3579.3	3553.9	3553.9	3540.5	3551.0	3542.0
10°	3704.7	3683.8	3673.4	3680.8	3634.5	3628.6	3594.2	3594.2	3573.3	3589.8	3576.3
12.5°	3792.8	3762.9	3759.9	3761.4	3709.2	3698.7	3659.9	3661.4	3622.6	3645.0	3628.6
15°	3898.7	3861.4	3858.4	3864.4	3809.2	3789.8	3746.5	3746.5	3703.2	3715.1	3692.8
17.5°	4034.6	3991.3	3983.8	3994.3	3939.0	3921.1	3870.4	3861.4	3813.7	3804.7	3785.3
20°	4213.7	4164.4	4149.5	4171.9	4101.7	4085.3	4024.1	4004.7	3940.5	3834.6	3695.7
22.5°	4374.9	4336.1	4327.1	4342.0	4277.9	4261.4	4201.7	4161.4	4006.2	3792.8	3664.4
25°	4558.5	4543.6	4539.1	4530.1	4471.9	4443.5	4386.8	4330.1	3977.8	3685.3	3682.3
27.5°	4785.4	4777.9	4757.0	4749.5	4685.4	4667.4	4592.8	4227.1	3876.3	3855.5	3843.5
30°	5033.1	5018.2	4997.3	4998.8	4955.5	4922.7	4745.1	4136.1	4071.9	4071.9	4040.5
32.5°	5307.8	5291.4	5270.5	5274.9	5257.0	5228.7	4694.3	4376.4	4327.1	4340.6	4301.7
35°	5648.1	5621.2	5613.8	5631.7	5633.2	5449.6	4783.9	4703.3	4664.5	4655.5	4509.2
37.5°	6045.1	6022.7	6049.6	6091.4	6043.6	5506.3	5140.6	5115.2	5076.4	4860.0	4513.7
40°	6521.3	6481.0	6513.8	6540.7	6509.3	5843.6	5515.3	5524.2	5489.9	4848.0	4464.4
42.5°	6993.0	6954.1	6982.5	7049.7	7037.7	6261.6	5972.0	5991.4	5645.1	4876.4	4846.6
45°	7576.6	7563.1	7554.2	7609.4	7655.7	6761.6	6513.8	6512.3	5534.7	5327.2	5300.3
47.5°	8237.8	8219.9	8224.4	8294.5	8364.7	7358.6	7154.2	6554.1	5819.7	5840.6	5816.8
50°	8975.2	8955.8	9014.0	9115.5	9151.3	8028.8	7778.1	6440.7	6413.8	6436.2	6395.9
52.5°	9911.0	9867.7	9957.3	10066.3	10112.5	8821.4	7812.4	7110.9	7066.1	7070.6	6942.2
55°	10975.3	10940.9	11021.5	11143.9	11212.6	9706.5	8525.9	7763.1	7736.3	6975.0	6281.0
57.5°	12132.1	12093.3	12200.7	12236.5	12254.5	10621.5	9243.8	8470.7	7227.3	6369.0	6330.2
60°	13266.5	13224.7	13360.5	13366.5	13418.7	11535.0	9926.0	9152.8	6963.1	6849.7	6816.8
62.5°	14457.6	14405.3	14524.7	14520.3	14417.3	12370.9	10602.1	9808.0	7434.8	7345.2	7294.5
65°	15780.0	15741.2	15824.8	15690.5	15486.0	13235.1	11303.7	10521.5	7984.1	7967.6	7955.7
67.5°	17520.4	17444.3	17275.7	16989.1	16598.0	14027.7	11805.2	10991.7	8430.4	8354.2	8330.3
70°	16820.4	16730.8	16602.5	16287.5	15889.0	13282.9	10999.2	10281.2	7882.6	7885.5	7828.8
72.5°	14893.4	14738.2	14617.3	14175.5	13956.1	11600.7	9584.2	8922.9	6818.3	6945.2	6918.3
75°	11748.5	11590.2	11391.7	11218.6	11194.7	9409.5	7727.3	7251.2	5436.1	5528.7	5595.9
77.5°	7615.4	7557.2	7807.9	7643.7	7791.5	6479.5	5519.7	5110.8	3746.5	3980.8	3949.5
80°	3485.3	3418.1	3821.1	3707.7	3762.9	3182.3	2697.2	2591.2	1695.6	1707.6	1743.4
82.5°	788.1	761.2	789.6	725.4	707.5	598.5	526.9	477.6	300.0	317.9	334.3
85°	431.4	431.4	425.4	395.5	338.8	279.1	220.9	170.2	92.5	101.5	100.0
87.5°	303.0	295.5	294.0	262.7	225.4	191.1	152.2	109.0	52.2	35.8	32.8
90°	207.5	204.5	194.0	174.6	150.8	123.9	92.5	53.7	22.4	10.4	7.5
92.5°	150.8	147.8	140.3	123.9	103.0	83.6	61.2	35.8	17.9	7.5	1.5
95°	100.0	98.5	94.0	80.6	67.2	53.7	38.8	22.4	14.9	6.0	1.5
97.5°	68.7	67.2	62.7	53.7	43.3	34.3	23.9	16.4	11.9	4.5	1.5
100°	46.3	44.8	41.8	34.3	26.9	20.9	14.9	11.9	9.0	4.5	1.5
102.5°	29.9	28.4	25.4	20.9	14.9	11.9	10.4	9.0	6.0	3.0	1.5
105°	17.9	16.4	13.4	10.4	9.0	7.5	7.5	6.0	4.5	1.5	1.5
107.5°	9.0	7.5	6.0	6.0	6.0	4.5	4.5	4.5	3.0	1.5	0.0
110°	1.5	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	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°	3507.7	3507.7	3507.7	3507.7	3507.7	3507.7	3507.7	3507.7	3507.7	3507.7
2.5°	3524.1	3500.2	3513.6	3492.7	3488.3	3465.9	3501.7	3506.2	3503.2	3509.2
5°	3528.6	3503.2	3518.1	3492.7	3492.7	3468.9	3503.2	3503.2	3494.2	3497.2
7.5°	3540.5	3515.1	3525.6	3497.2	3498.7	3470.4	3512.1	3507.7	3500.2	3510.7
10°	3574.8	3546.5	3545.0	3518.1	3524.1	3494.2	3546.5	3546.5	3539.0	3558.4
12.5°	3630.1	3588.3	3580.8	3548.0	3559.9	3534.5	3598.7	3601.7	3603.2	3634.5
15°	3688.3	3637.5	3645.0	3606.2	3601.7	3588.3	3646.5	3643.5	3642.0	3685.3
17.5°	3770.4	3531.6	3492.7	3465.9	3459.9	3427.1	3480.8	3583.8	3530.1	3500.2
20°	3640.5	3515.1	3361.4	3309.2	3298.7	3013.6	2788.2	2889.7	3027.0	3039.0
22.5°	3522.6	3477.8	3465.9	3383.8	2928.5	2833.0	2842.0	2804.6	2479.3	2337.5
25°	3668.9	3630.1	3579.3	3077.8	2970.3	2936.0	2925.5	2543.4	2286.7	2303.1
27.5°	3831.6	3788.3	3346.5	3085.3	3109.1	3061.4	2825.5	2373.3	2358.3	2386.7
30°	4034.6	3688.3	3265.9	3250.9	3273.3	3212.1	2510.6	2477.8	2473.3	2503.1
32.5°	4265.9	3556.9	3480.8	3480.8	3470.4	2809.1	2644.9	2622.5	2634.5	2665.8
35°	4179.4	3762.9	3754.0	3791.3	3540.5	2882.3	2859.9	2821.1	2830.0	2840.5
37.5°	4083.8	4101.7	4106.2	4086.8	2582.2	3091.2	3073.3	3065.9	3056.9	3059.9
40°	4439.1	4451.0	4446.5	4268.9	2786.7	3131.5	3315.1	3301.7	3300.2	3318.1
42.5°	4854.0	4886.9	4861.5	3765.9	3059.9	2633.0	3594.2	3586.8	3583.8	3621.1
45°	5321.2	5352.6	4819.7	4033.1	3350.9	2725.5	3613.6	3891.3	3913.7	3946.5
47.5°	5827.2	5821.2	4448.0	4443.5	3692.8	2982.3	3004.7	4255.5	4292.8	4304.7
50°	6409.3	5452.6	4870.4	4706.2	4079.3	3270.3	3185.3	3904.7	4728.6	4740.6
52.5°	6285.4	5394.3	5355.5	4128.6	4425.6	3588.3	3504.7	3482.3	4901.8	5189.9
55°	5858.6	5903.3	5848.1	4530.1	3245.0	3871.9	3819.6	3797.2	3646.5	2886.7
57.5°	6333.2	6346.6	6298.9	4898.8	3300.2	2413.6	3759.9	3225.6	2095.6	2085.2
60°	6825.8	6848.2	4691.3	3598.7	2115.1	807.5	192.5	203.0	579.1	509.0
62.5°	7296.0	7318.3	4966.0	3288.3	1335.9	59.7	38.8	26.9	29.9	29.9
65°	7909.4	7918.4	5315.2	3480.8	1388.1	14.9	4.5	0.0	0.0	0.0
67.5°	8227.4	8043.8	5403.3	3568.9	1425.5	9.0	3.0	0.0	0.0	0.0
70°	7746.7	7549.7	5030.1	3345.0	1328.4	7.5	1.5	0.0	0.0	0.0
72.5°	6825.8	6730.2	4515.2	2965.8	1176.2	4.5	1.5	0.0	0.0	0.0
75°	5657.1	5530.2	3743.5	2471.8	973.2	3.0	0.0	0.0	0.0	0.0
77.5°	4024.1	4039.0	2609.1	1801.6	662.7	3.0	0.0	0.0	0.0	0.0
80°	1761.3	1801.6	1143.4	826.9	234.3	1.5	0.0	0.0	0.0	0.0
82.5°	335.8	309.0	149.3	117.9	29.9	0.0	0.0	0.0	0.0	0.0
85°	110.5	120.9	55.2	44.8	13.4	0.0	0.0	0.0	0.0	0.0
87.5°	38.8	49.3	16.4	13.4	3.0	0.0	0.0	0.0	0.0	0.0
90°	6.0	6.0	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)