

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: P579574

Luminaire Tested: **CST-CA10-310-760-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579574
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-CA10-310-760-U-T5-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: 35504 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U2 - G5

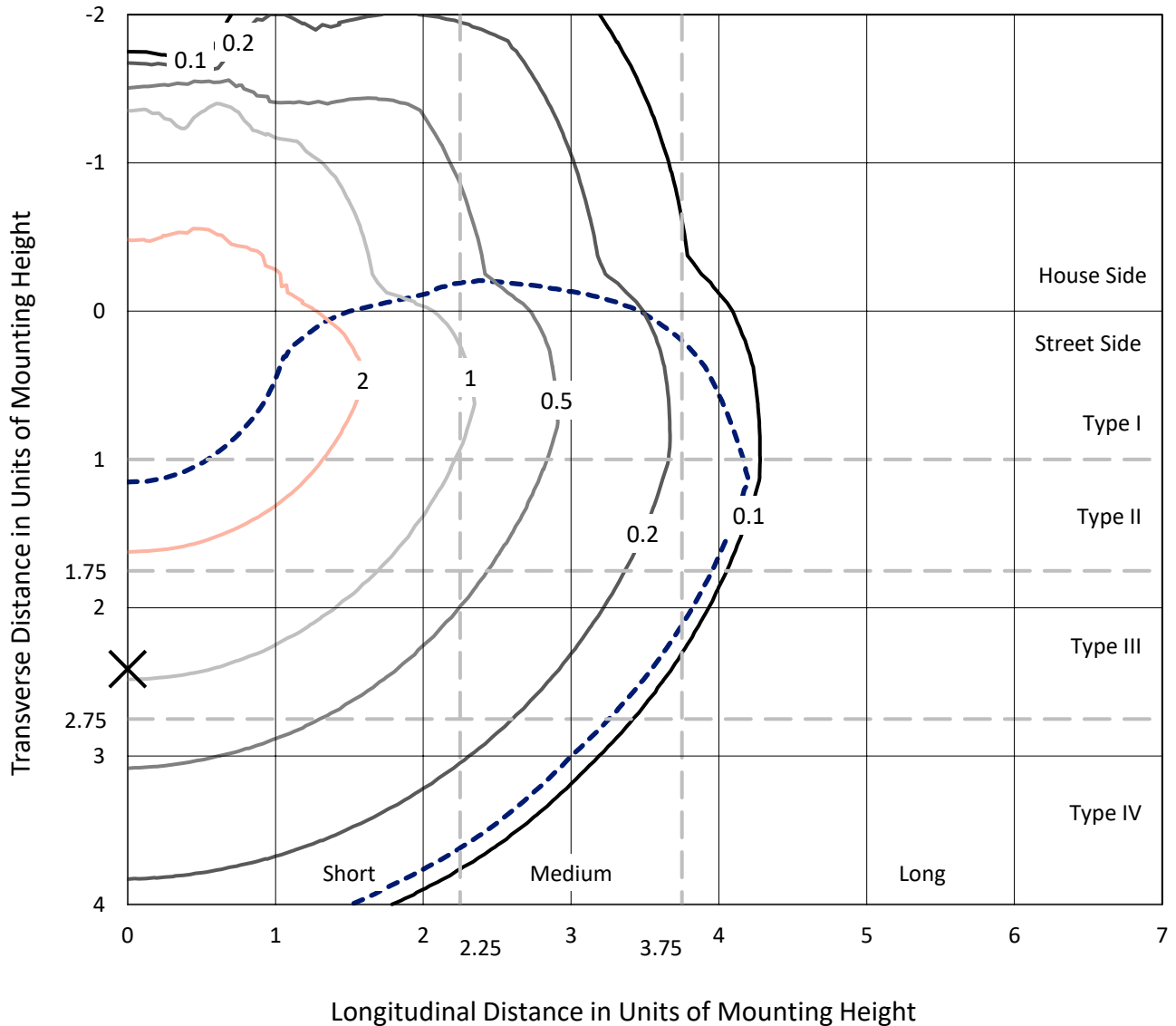
Input Watts (W): 312.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

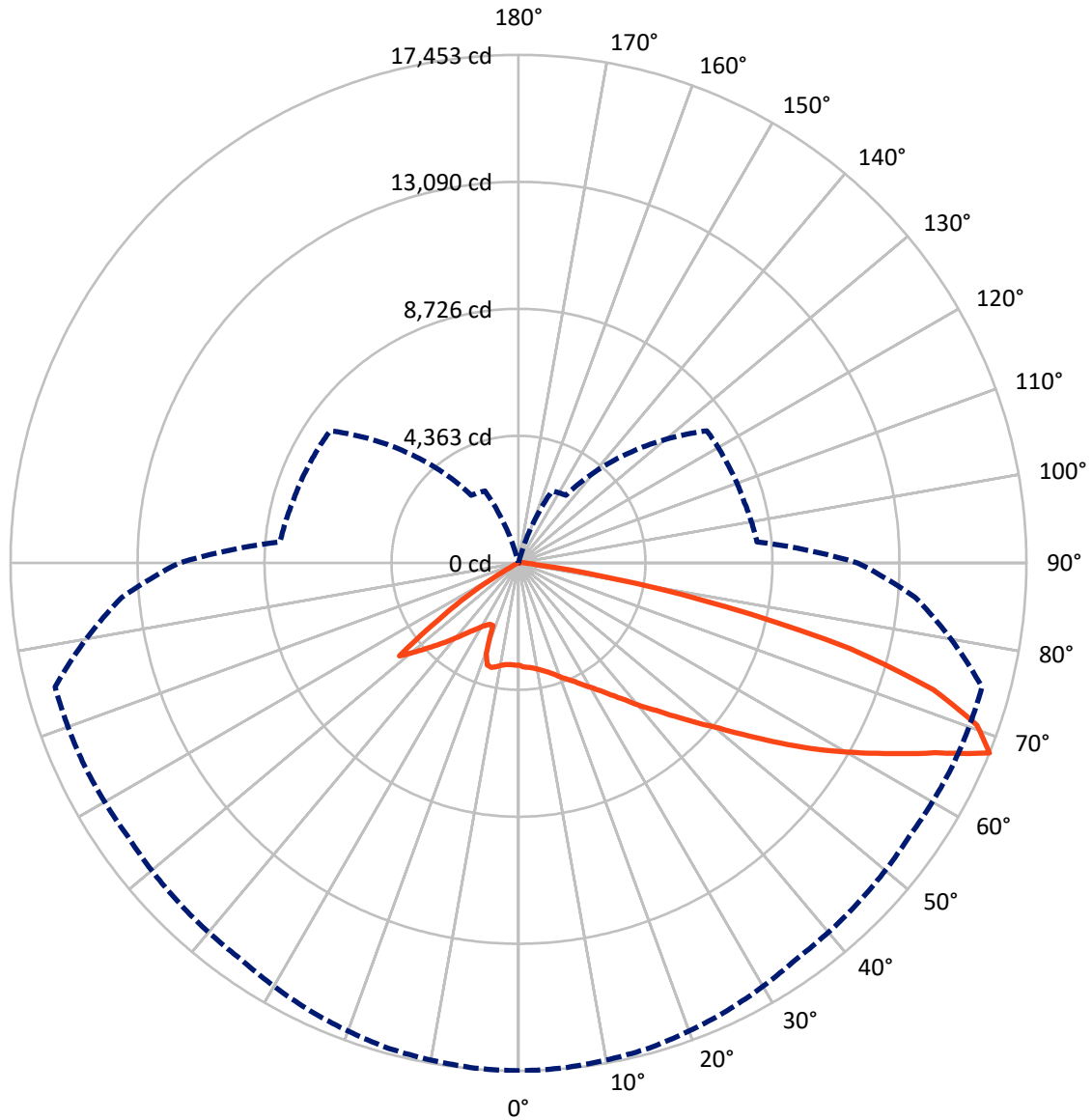
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 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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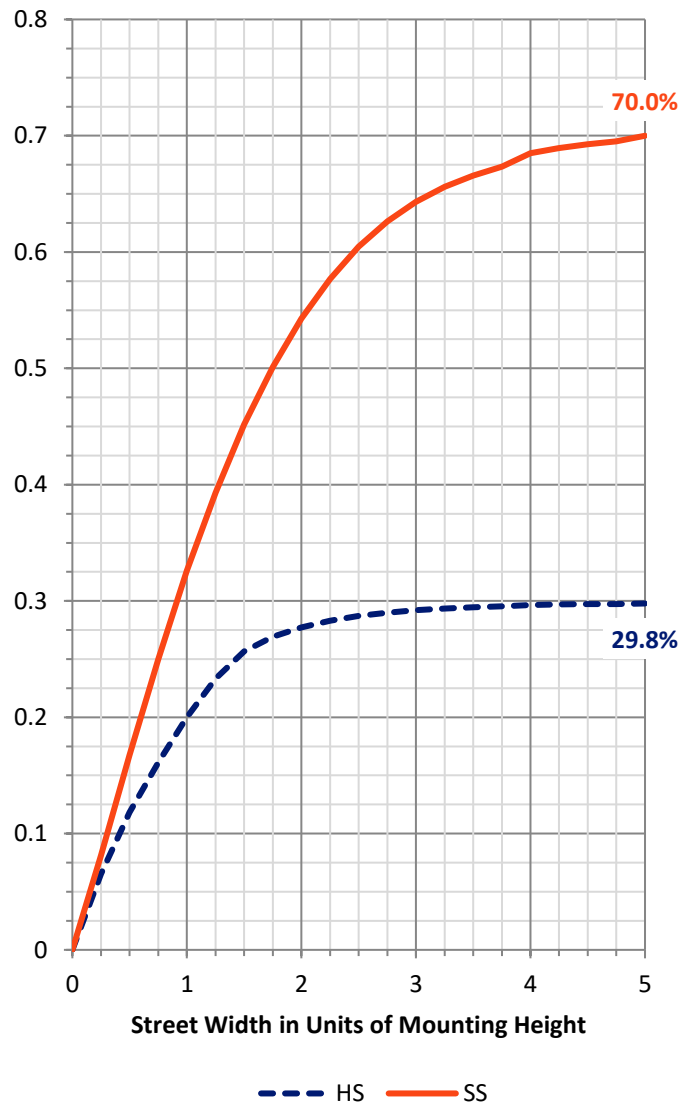
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10598.1	3.6	10601.7
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	24862.3	40.0	24902.3
	% Fixture	70.0	0.1	70.1
Total	Lumens	35460.5	43.5	35504.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.2	1.0
10°-20°	1050.0	3.0
20°-30°	1762.1	5.0
30°-40°	2857.4	8.0
40°-50°	4669.2	13.2
50°-60°	7317.5	20.6
60°-70°	9800.4	27.6
70°-80°	7143.1	20.1
80°-90°	521.6	1.5
90°-100°	33.4	0.1
100°-110°	9.5	0.0
110°-120°	0.7	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°	35460.5	99.9
0°-180°	35504.0	100.0

Coefficient of Utilization

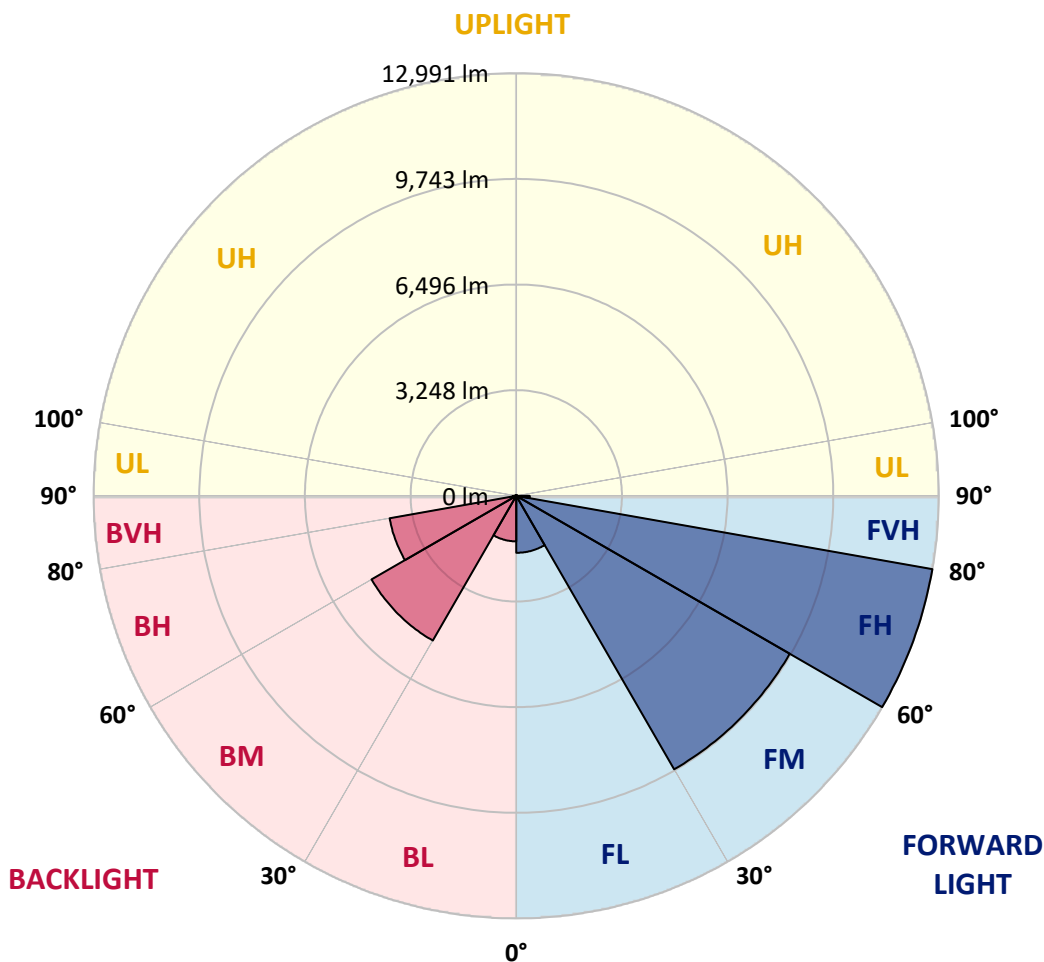


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1751.2	4.9			
FM (30°-60°)	9707.4	27.3			
FH (60°-80°)	12991.2	36.6			G5
FVH (80°-90°)	412.5	1.2			G3/500
BL (0°-30°)	1400.0	3.9	B3/2500		
BM (30°-60°)	5136.6	14.5	B4/8500		
BH (60°-80°)	3952.4	11.1	B4/5000		G4/5000
BVH (80°-90°)	109.1	0.3			G2/225
UL (90°-100°)	33.4	0.1		U2/50	
UH (100°-180°)	10.2	0.0		U2/50	

BUG Rating: B4-U2-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0
2.5°	3585.2	3564.3	3565.8	3585.2	3527.0	3546.4	3521.0	3540.4	3527.0	3531.5	3540.4
5°	3607.6	3585.2	3586.7	3610.6	3558.3	3574.8	3540.4	3550.9	3538.9	3544.9	3544.9
7.5°	3652.4	3627.0	3625.5	3640.4	3586.7	3592.7	3561.3	3562.8	3544.9	3556.8	3550.9
10°	3719.5	3698.6	3683.7	3692.7	3644.9	3641.9	3601.6	3603.1	3580.7	3594.2	3583.7
12.5°	3801.6	3773.3	3770.3	3773.3	3721.0	3709.1	3667.3	3670.3	3630.0	3650.9	3638.9
15°	3906.1	3861.3	3861.3	3877.8	3810.6	3801.6	3750.9	3753.9	3712.1	3728.5	3716.6
17.5°	4034.5	3991.2	3983.7	3995.7	3937.5	3925.5	3873.3	3870.3	3824.0	3828.5	3818.1
20°	4200.2	4156.9	4139.0	4168.8	4095.7	4086.7	4024.0	4018.1	3968.8	3955.4	3949.4
22.5°	4353.9	4319.6	4310.6	4343.4	4267.3	4259.9	4200.2	4192.7	4146.4	4127.0	4009.1
25°	4527.0	4519.6	4516.6	4527.0	4455.4	4440.5	4394.2	4383.7	4344.9	4321.1	4177.8
27.5°	4750.9	4747.9	4739.0	4740.5	4674.8	4661.4	4618.1	4610.6	4570.3	4543.5	4359.9
30°	4985.3	4985.3	4965.9	4976.3	4943.5	4922.6	4888.2	4861.4	4836.0	4807.6	4576.3
32.5°	5255.4	5253.9	5236.0	5267.4	5243.5	5243.5	5222.6	5194.2	5149.4	5136.0	4855.4
35°	5603.2	5580.8	5573.3	5624.1	5616.6	5630.1	5622.6	5592.7	5555.4	5524.1	5183.8
37.5°	5988.3	5982.3	6004.7	6036.0	6052.5	6088.3	6065.9	6064.4	6058.4	5979.3	5095.7
40°	6462.9	6437.6	6468.9	6485.3	6473.4	6531.6	6512.2	6528.6	6573.4	5937.5	5089.7
42.5°	6936.1	6913.7	6936.1	7016.7	6998.8	7068.9	7060.0	7124.1	7149.5	6025.6	5503.2
45°	7518.2	7492.8	7510.7	7606.3	7615.2	7700.3	7746.6	7807.8	7819.7	6595.8	6001.7
47.5°	8186.9	8145.1	8179.4	8224.2	8360.0	8440.6	8485.4	8560.0	8636.1	7282.4	6568.9
50°	8924.2	8921.2	8958.5	9036.2	9191.4	9272.0	9349.6	9427.2	9552.6	8048.1	7204.7
52.5°	9861.6	9842.2	9906.3	9979.5	10116.8	10240.7	10333.2	10413.8	10548.2	8822.7	7892.8
55°	10933.2	10866.1	10988.5	11112.4	11170.6	11316.8	11381.0	11448.2	11576.5	9637.7	8294.3
57.5°	12090.0	12073.6	12158.7	12203.4	12328.8	12419.9	12454.2	12527.3	12525.8	10485.5	8977.9
60°	13228.8	13210.9	13310.9	13337.8	13437.8	13519.9	13508.0	13573.6	13597.5	11281.0	9648.1
62.5°	14427.4	14397.5	14490.1	14496.1	14436.4	14569.2	14555.8	14611.0	14590.1	12058.7	10307.8
65°	15737.9	15760.3	15790.1	15667.7	15524.5	15639.4	15636.4	15740.9	15815.5	13145.3	11191.5
67.5°	17452.9	17424.5	17270.8	16975.3	16627.5	16511.1	16387.2	16463.3	16484.2	13685.6	11643.7
70°	16712.6	16649.9	16581.2	16279.7	15860.3	15564.8	15372.2	15452.8	15537.9	12933.3	10936.2
72.5°	14908.0	14752.8	14433.4	14167.7	13925.9	13637.8	13403.5	13543.8	13730.4	11472.1	9683.9
75°	11761.6	11616.8	11384.0	11203.4	11073.5	11070.6	11060.1	11169.1	11142.2	9315.3	7873.4
77.5°	7283.9	7586.8	7801.8	7648.0	7701.8	7591.3	7834.6	7977.9	8107.8	6677.9	5609.2
80°	3362.8	3440.4	3821.0	3722.5	3643.4	3621.0	3636.0	3885.2	3958.4	2997.1	2510.5
82.5°	767.2	735.8	762.7	707.5	704.5	671.7	676.1	676.1	652.3	552.3	462.7
85°	388.1	397.0	400.0	383.6	338.8	304.5	282.1	238.8	206.0	176.1	149.3
87.5°	259.7	267.2	271.7	249.3	223.9	195.5	177.6	144.8	114.9	71.6	55.2
90°	177.6	176.1	171.6	159.7	143.3	122.4	98.5	68.7	40.3	14.9	10.4
92.5°	126.9	123.9	122.4	111.9	100.0	83.6	64.2	43.3	22.4	10.4	6.0
95°	83.6	82.1	82.1	76.1	67.2	55.2	43.3	28.4	16.4	9.0	6.0
97.5°	58.2	56.7	56.7	53.7	47.8	40.3	29.9	19.4	13.4	9.0	6.0
100°	40.3	40.3	40.3	37.3	34.3	28.4	22.4	14.9	11.9	9.0	6.0
102.5°	26.9	26.9	28.4	26.9	23.9	19.4	14.9	11.9	10.4	7.5	6.0
105°	17.9	17.9	17.9	17.9	16.4	13.4	11.9	10.4	9.0	7.5	6.0
107.5°	11.9	11.9	11.9	11.9	10.4	9.0	9.0	9.0	7.5	7.5	6.0
110°	7.5	7.5	7.5	9.0	7.5	7.5	7.5	7.5	7.5	6.0	6.0



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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°	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0
2.5°	3533.0	3512.1	3522.5	3501.6	3492.7	3473.3	3510.6	3513.6	3510.6	3516.5
5°	3537.4	3513.6	3525.5	3501.6	3497.1	3474.8	3512.1	3512.1	3503.1	3507.6
7.5°	3547.9	3522.5	3531.5	3503.1	3503.1	3476.2	3521.0	3518.0	3510.6	3521.0
10°	3583.7	3553.9	3553.9	3527.0	3530.0	3501.6	3556.8	3556.8	3550.9	3568.8
12.5°	3638.9	3601.6	3603.1	3565.8	3571.8	3549.4	3616.6	3619.5	3619.5	3649.4
15°	3710.6	3653.9	3659.8	3619.5	3631.5	3604.6	3664.3	3661.3	3668.8	3712.1
17.5°	3798.6	3736.0	3683.7	3552.4	3474.8	3477.7	3655.4	3737.5	3641.9	3670.3
20°	3836.0	3531.5	3365.8	3318.0	3307.6	3141.9	2803.1	2855.3	3174.7	3313.6
22.5°	3585.2	3488.2	3471.8	3410.6	2958.3	2832.9	2853.8	2824.0	2510.5	2332.9
25°	3707.6	3643.4	3606.1	3067.3	2965.8	2943.4	2928.5	2644.9	2304.6	2321.0
27.5°	3880.7	3797.2	3349.4	3080.7	3100.1	3065.8	2979.2	2379.2	2368.7	2395.6
30°	4085.2	3874.8	3264.3	3238.9	3261.3	3216.5	2504.6	2480.7	2480.7	2507.6
32.5°	4336.0	3515.1	3464.3	3467.3	3452.4	2944.9	2635.9	2629.9	2647.9	2670.2
35°	4265.8	3749.4	3753.9	3779.2	3744.9	2880.7	2841.9	2819.5	2834.4	2843.4
37.5°	4128.5	4101.6	4101.6	4073.3	3197.1	3106.1	3064.3	3061.3	3059.8	3059.8
40°	4474.8	4449.4	4418.1	4368.8	3344.9	3368.8	3306.1	3298.6	3303.1	3319.5
42.5°	4868.8	4858.4	4855.4	3749.4	3652.4	3670.3	3603.1	3583.7	3583.7	3621.0
45°	5333.0	5319.6	4989.7	4007.6	3991.2	4012.1	3937.5	3891.2	3916.6	3943.4
47.5°	5865.9	5865.9	4418.1	4394.2	4394.2	4406.1	4331.5	4268.8	4294.2	4303.1
50°	6449.5	5537.5	4861.4	4839.0	4859.9	4853.9	4776.3	4194.2	4733.0	4737.5
52.5°	6612.2	5385.3	5348.0	5322.6	5348.0	5343.5	5262.9	3498.6	5119.6	5192.7
55°	5861.4	5865.9	5858.4	5821.1	5848.0	5837.5	5758.4	3819.5	3774.8	3364.3
57.5°	6337.5	6343.5	6340.5	6334.6	6358.4	4619.6	5964.4	3450.9	2107.5	2109.0
60°	6855.5	6825.6	6816.7	6803.2	5765.9	3274.7	2485.2	240.3	823.9	812.0
62.5°	7325.6	7315.2	7283.9	7276.4	4892.7	2579.2	2519.5	55.2	43.3	41.8
65°	7979.4	7886.9	7861.5	7782.4	5215.1	2746.4	2689.7	16.4	1.5	0.0
67.5°	8222.7	8034.6	7943.6	7901.8	5306.2	2832.9	2724.0	16.4	1.5	0.0
70°	7763.0	7530.1	7415.2	7368.9	4958.4	2647.9	2540.4	16.4	1.5	0.0
72.5°	6883.8	6712.2	6665.9	6518.2	4371.8	2324.0	2229.9	16.4	0.0	0.0
75°	5646.5	5583.8	5527.1	5370.3	3553.9	1846.3	1762.8	14.9	0.0	0.0
77.5°	4109.1	4016.6	3912.1	3741.9	2398.6	1206.0	1162.7	13.4	0.0	0.0
80°	1852.3	1776.2	1750.8	1485.1	850.8	392.6	346.3	11.9	0.0	0.0
82.5°	359.7	323.9	307.5	295.5	191.1	106.0	92.5	9.0	0.0	0.0
85°	122.4	135.8	158.2	174.6	107.5	64.2	53.7	6.0	0.0	0.0
87.5°	47.8	64.2	77.6	80.6	40.3	26.9	14.9	3.0	0.0	0.0
90°	9.0	11.9	10.4	7.5	4.5	1.5	0.0	0.0	0.0	0.0
92.5°	4.5	6.0	4.5	4.5	3.0	1.5	0.0	0.0	0.0	0.0
95°	6.0	6.0	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0
97.5°	6.0	6.0	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0
100°	6.0	6.0	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0
102.5°	6.0	6.0	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0
105°	6.0	7.5	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0
107.5°	6.0	7.5	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0
110°	6.0	7.5	6.0	4.5	3.0	1.5	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)