

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: P579576

Luminaire Tested: **CST-CA10-310-760-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579576
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-CA10-310-760-U-T5-HSS-HM-EX90
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: 38989 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U2 - G5

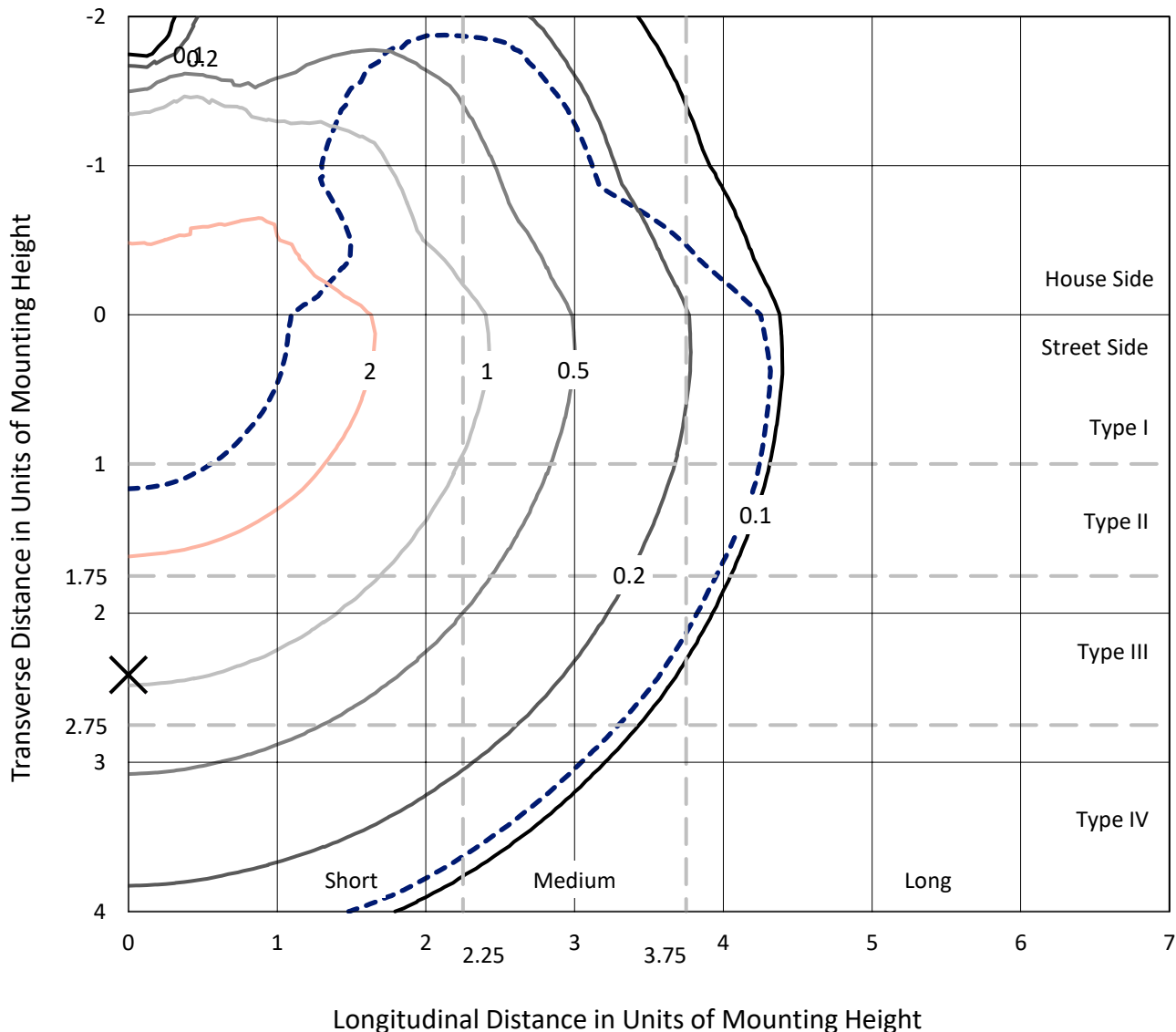
Input Watts (W): 312.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

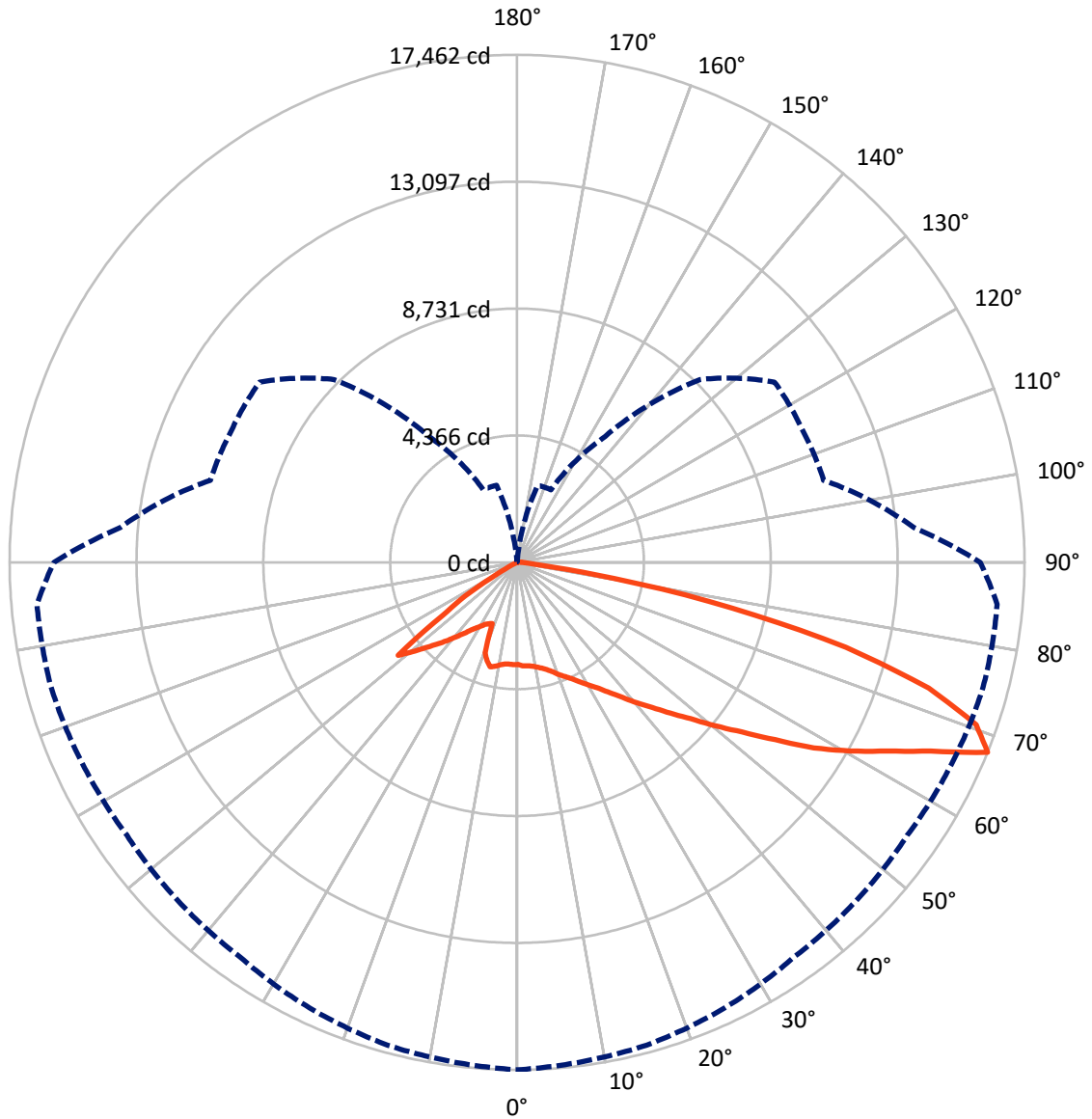
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.9 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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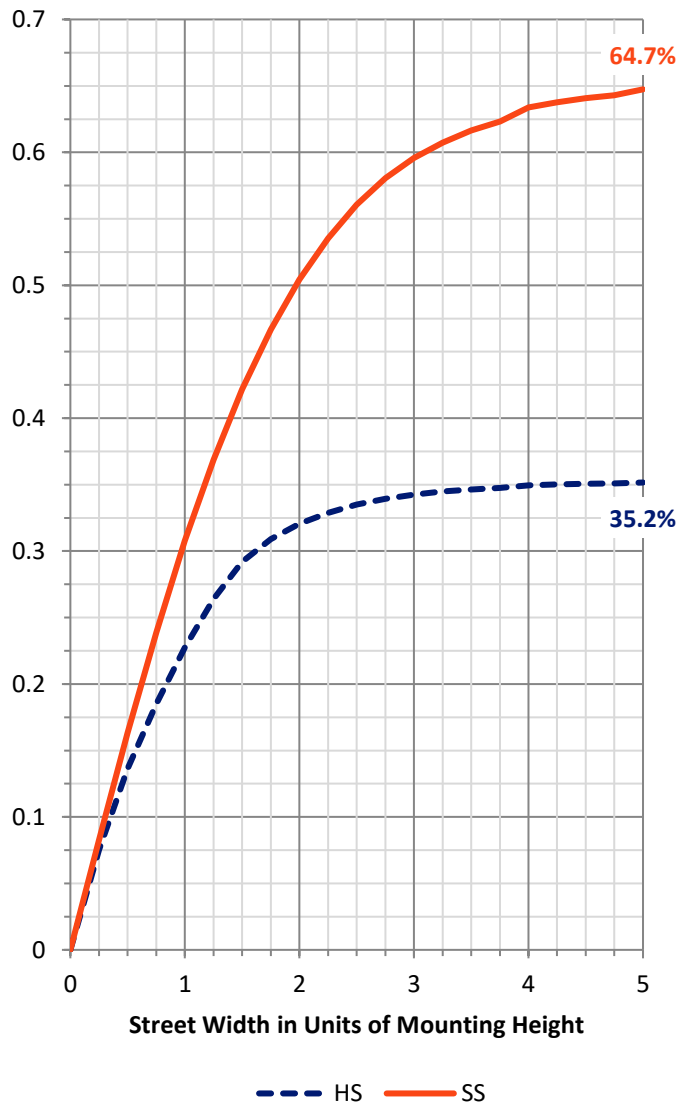
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13724.1	0.8	13724.9
	% Fixture	35.2	0.0	35.2
Street Side	Lumens	25236.6	27.5	25264.1
	% Fixture	64.7	0.1	64.8
Total	Lumens	38960.7	28.3	38989.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.0	0.9
10°-20°	1050.1	2.7
20°-30°	1820.6	4.7
30°-40°	2987.3	7.7
40°-50°	4982.8	12.8
50°-60°	8064.0	20.7
60°-70°	11130.9	28.5
70°-80°	8030.5	20.6
80°-90°	556.6	1.4
90°-100°	24.1	0.1
100°-110°	4.0	0.0
110°-120°	0.1	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°	38960.7	99.9
0°-180°	38989.0	100.0

Coefficient of Utilization

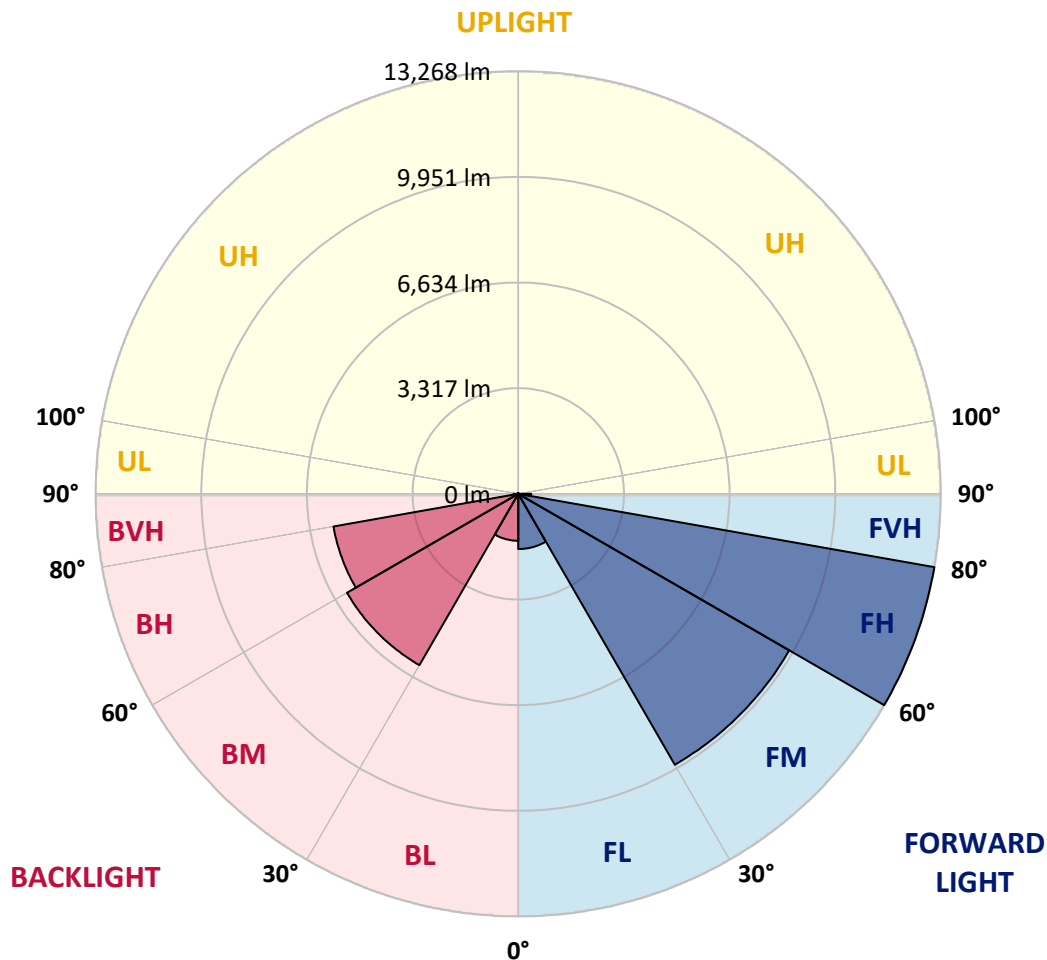


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1733.8	4.4			
FM (30°-60°)	9824.2	25.2			
FH (60°-80°)	13268.5	34.0			G5
FVH (80°-90°)	410.1	1.1			G3/500
BL (0°-30°)	1474.8	3.8	B3/2500		
BM (30°-60°)	6209.8	15.9	B4/8500		
BH (60°-80°)	5892.9	15.1	B5		G5
BVH (80°-90°)	146.5	0.4			G2/225
UL (90°-100°)	24.1	0.1		U2/50	
UH (100°-180°)	4.2	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°	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6
2.5°	3567.3	3546.4	3547.9	3568.8	3512.1	3533.0	3509.1	3530.0	3519.6	3527.0	3536.0
5°	3577.8	3552.4	3555.4	3580.8	3536.0	3552.4	3524.0	3536.0	3527.0	3536.0	3537.5
7.5°	3604.6	3579.3	3580.8	3600.2	3553.9	3565.8	3539.0	3544.9	3530.0	3546.4	3542.0
10°	3661.4	3637.5	3628.5	3644.9	3604.6	3606.1	3574.8	3580.8	3558.4	3580.8	3571.8
12.5°	3737.5	3704.6	3707.6	3716.6	3667.3	3670.3	3633.0	3642.0	3604.6	3636.0	3625.5
15°	3830.0	3789.7	3794.2	3809.1	3761.4	3756.9	3722.6	3722.6	3689.7	3713.6	3703.2
17.5°	3958.4	3913.6	3910.6	3921.1	3882.3	3882.3	3843.5	3839.0	3806.1	3825.5	3822.6
20°	4125.6	4074.8	4065.9	4085.3	4036.0	4042.0	3992.7	3988.2	3952.4	3964.4	3965.8
22.5°	4276.3	4236.0	4234.5	4264.4	4206.2	4213.6	4168.8	4156.9	4127.1	4143.5	4147.9
25°	4449.5	4443.5	4439.0	4449.5	4391.2	4391.2	4359.9	4349.4	4330.0	4342.0	4353.9
27.5°	4667.4	4664.4	4652.4	4653.9	4604.7	4612.1	4577.8	4571.8	4562.9	4561.4	4555.4
30°	4907.7	4894.2	4877.8	4888.3	4865.9	4873.4	4843.5	4824.1	4821.1	4822.6	4813.6
32.5°	5174.9	5156.9	5146.5	5164.4	5173.4	5194.3	5192.8	5139.0	5139.0	5161.4	5121.1
35°	5506.2	5477.9	5486.8	5510.7	5528.6	5582.3	5573.4	5536.1	5548.0	5558.5	5510.7
37.5°	5895.8	5876.4	5916.7	5961.5	5963.0	6039.1	6021.2	6030.1	6028.6	6015.2	5983.9
40°	6363.0	6331.6	6373.4	6407.8	6386.9	6477.9	6474.9	6515.2	6542.1	6588.4	6570.4
42.5°	6827.2	6803.3	6843.6	6918.2	6906.3	7010.8	7025.7	7088.4	7125.7	7197.3	7155.5
45°	7398.8	7385.4	7422.7	7480.9	7521.2	7660.0	7715.3	7742.1	7836.2	7922.7	7825.7
47.5°	8039.2	8057.1	8051.1	8157.1	8246.6	8415.3	8437.7	8524.3	8606.4	8701.9	8607.8
50°	8836.2	8806.4	8833.2	8934.7	9081.0	9203.4	9318.3	9442.2	9522.8	9621.3	9448.2
52.5°	9694.5	9719.8	9779.5	9936.3	10043.7	10188.5	10293.0	10440.8	10519.9	10605.0	10379.6
55°	10776.6	10797.5	10863.2	11024.4	11100.5	11264.7	11336.3	11484.1	11560.2	11597.5	11309.5
57.5°	12045.3	11975.2	12028.9	12112.5	12230.4	12408.0	12427.4	12566.2	12566.2	12614.0	12246.8
60°	13178.2	13130.4	13187.2	13306.6	13352.8	13514.0	13497.6	13611.1	13640.9	13605.1	13166.3
62.5°	14294.7	14303.6	14376.8	14415.6	14397.7	14493.2	14532.0	14651.4	14602.1	14614.1	14108.1
65°	15650.0	15670.9	15663.4	15591.7	15430.5	15618.6	15608.2	15797.7	15809.7	15917.1	15329.0
67.5°	17462.0	17369.4	17200.8	16912.7	16593.3	16482.8	16385.8	16479.8	16600.7	16581.3	15936.5
70°	16757.5	16606.7	16518.7	16267.9	15841.0	15620.1	15418.6	15435.0	15611.1	15627.6	14967.8
72.5°	14814.1	14738.0	14399.2	14179.7	13887.2	13717.0	13473.7	13529.0	13758.8	13797.6	13272.2
75°	11685.6	11615.4	11309.5	11237.8	11093.0	11176.6	11116.9	11139.3	11324.4	11154.2	10839.3
77.5°	7563.0	7579.4	7531.7	7694.4	7688.4	7692.9	7910.8	7933.2	8113.8	8009.3	7704.8
80°	3391.2	3440.5	3556.9	3792.7	3649.4	3727.0	3810.6	3785.2	3967.3	3555.4	3703.2
82.5°	686.6	710.5	670.2	700.0	653.8	677.6	712.0	659.7	653.8	606.0	562.7
85°	353.7	358.2	356.7	349.3	307.5	283.6	273.1	229.9	207.5	203.0	188.1
87.5°	229.9	232.8	225.4	223.9	197.0	180.6	161.2	135.8	113.4	79.1	65.7
90°	140.3	140.3	132.8	125.4	111.9	100.0	80.6	58.2	34.3	13.4	7.5
92.5°	94.0	94.0	91.0	86.6	77.6	67.2	52.2	34.3	16.4	6.0	3.0
95°	59.7	59.7	58.2	56.7	50.7	43.3	32.8	20.9	10.4	4.5	1.5
97.5°	38.8	38.8	38.8	37.3	34.3	29.9	22.4	13.4	7.5	3.0	1.5
100°	23.9	25.4	23.9	23.9	22.4	19.4	14.9	9.0	6.0	3.0	1.5
102.5°	13.4	13.4	14.9	14.9	13.4	11.9	9.0	7.5	4.5	3.0	1.5
105°	6.0	6.0	7.5	7.5	7.5	6.0	6.0	4.5	3.0	3.0	1.5
107.5°	1.5	1.5	1.5	3.0	4.5	4.5	4.5	4.5	3.0	1.5	1.5
110°	0.0	0.0	0.0	1.5	1.5	3.0	3.0	3.0	3.0	1.5	1.5



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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°	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6
2.5°	3527.0	3509.1	3522.5	3500.2	3494.2	3474.8	3512.1	3518.1	3515.1	3521.1
5°	3530.0	3507.6	3524.0	3501.6	3500.2	3479.3	3518.1	3519.6	3509.1	3513.6
7.5°	3539.0	3518.1	3530.0	3504.6	3507.6	3482.2	3527.0	3525.5	3519.6	3530.0
10°	3571.8	3547.9	3552.4	3525.5	3533.0	3506.1	3561.4	3564.3	3558.4	3577.8
12.5°	3628.5	3595.7	3606.1	3574.8	3580.8	3553.9	3621.1	3625.5	3625.5	3656.9
15°	3706.1	3671.8	3694.2	3653.9	3655.4	3615.1	3665.8	3665.8	3671.8	3715.1
17.5°	3819.6	3777.8	3807.6	3770.3	3537.5	3449.4	3622.6	3728.5	3552.4	3537.5
20°	3959.9	3940.5	3956.9	3895.7	3518.1	3115.1	2801.6	2785.2	3133.0	3306.1
22.5°	4131.5	4112.1	4119.6	4042.0	3140.4	2856.8	2852.4	2822.5	2388.2	2268.8
25°	4333.0	4322.6	4306.2	3655.4	3246.4	2974.8	2938.9	2549.4	2300.1	2322.5
27.5°	4549.5	4518.1	3964.4	3797.2	3409.1	3092.7	2889.7	2380.7	2371.7	2392.6
30°	4791.3	4625.6	4058.4	4001.7	3598.7	3239.0	2515.0	2485.2	2485.2	2518.0
32.5°	5098.7	4319.6	4319.6	4289.7	3833.0	2843.4	2647.9	2630.0	2650.9	2664.3
35°	5052.5	4646.5	4694.2	4680.8	4150.9	2895.7	2861.3	2831.5	2835.9	2835.9
37.5°	5067.4	5083.8	5140.5	5082.3	3621.1	3122.5	3067.3	3061.3	3065.8	3076.3
40°	5536.1	5545.0	5565.9	5437.6	3891.2	3386.7	3310.6	3295.7	3310.6	3333.0
42.5°	6040.6	6065.9	6089.8	4945.0	4268.8	3686.7	3610.6	3582.3	3609.1	3633.0
45°	6637.6	6676.4	6310.7	5382.3	4695.7	4028.5	3947.9	3913.6	3930.0	3950.9
47.5°	7309.3	7370.5	5951.0	5939.1	5197.2	4433.0	4340.5	4274.8	4300.2	4298.7
50°	8067.5	7043.6	6574.9	6567.5	5757.0	4883.8	4788.3	4728.6	4748.0	4733.0
52.5°	8887.0	7236.1	7251.1	7249.6	6342.1	5368.9	5280.8	5206.2	5052.5	5194.3
55°	9725.8	7901.8	7958.6	7949.6	6955.5	5870.4	5776.4	5706.2	3728.5	3149.4
57.5°	10560.2	8597.4	8615.3	8636.2	7591.4	6354.0	5940.6	5457.0	2127.0	2116.5
60°	11384.1	9260.1	9295.9	9307.9	7934.7	5259.9	2428.5	2473.2	643.3	768.7
62.5°	12237.9	9913.9	9946.7	9936.3	8276.5	4891.3	2550.9	2500.1	59.7	55.2
65°	13327.5	10733.3	10687.0	10652.7	8815.3	5219.6	2740.4	2727.0	19.4	13.4
67.5°	13709.6	10919.9	10825.9	10813.9	8892.9	5289.8	2755.3	2744.9	19.4	13.4
70°	12843.9	10210.9	10049.7	10054.2	8275.0	4948.0	2570.3	2555.3	17.9	13.4
72.5°	11248.3	9018.3	8951.1	8595.9	7166.0	4352.4	2279.2	2222.5	17.9	11.9
75°	9234.7	7285.4	7136.1	6737.6	5703.2	3459.9	1789.6	1716.5	16.4	10.4
77.5°	6410.7	5109.2	4824.1	4418.1	3815.1	2294.1	1203.0	1109.0	14.9	10.4
80°	2906.1	2097.1	2107.6	1615.0	1294.1	777.6	382.1	346.3	13.4	9.0
82.5°	506.0	373.2	350.8	338.8	282.1	191.1	116.4	100.0	11.9	6.0
85°	176.1	141.8	156.7	185.1	164.2	114.9	71.6	68.7	7.5	3.0
87.5°	59.7	62.7	73.1	88.1	77.6	44.8	26.9	19.4	1.5	0.0
90°	6.0	7.5	7.5	7.5	4.5	0.0	0.0	0.0	0.0	0.0
92.5°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	1.5	1.5	1.5	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)