

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: P579595

Luminaire Tested: **CST-CA6-230-760-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579595
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-CA6-230-760-U-T5N-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (6) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26977 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U2 - G3

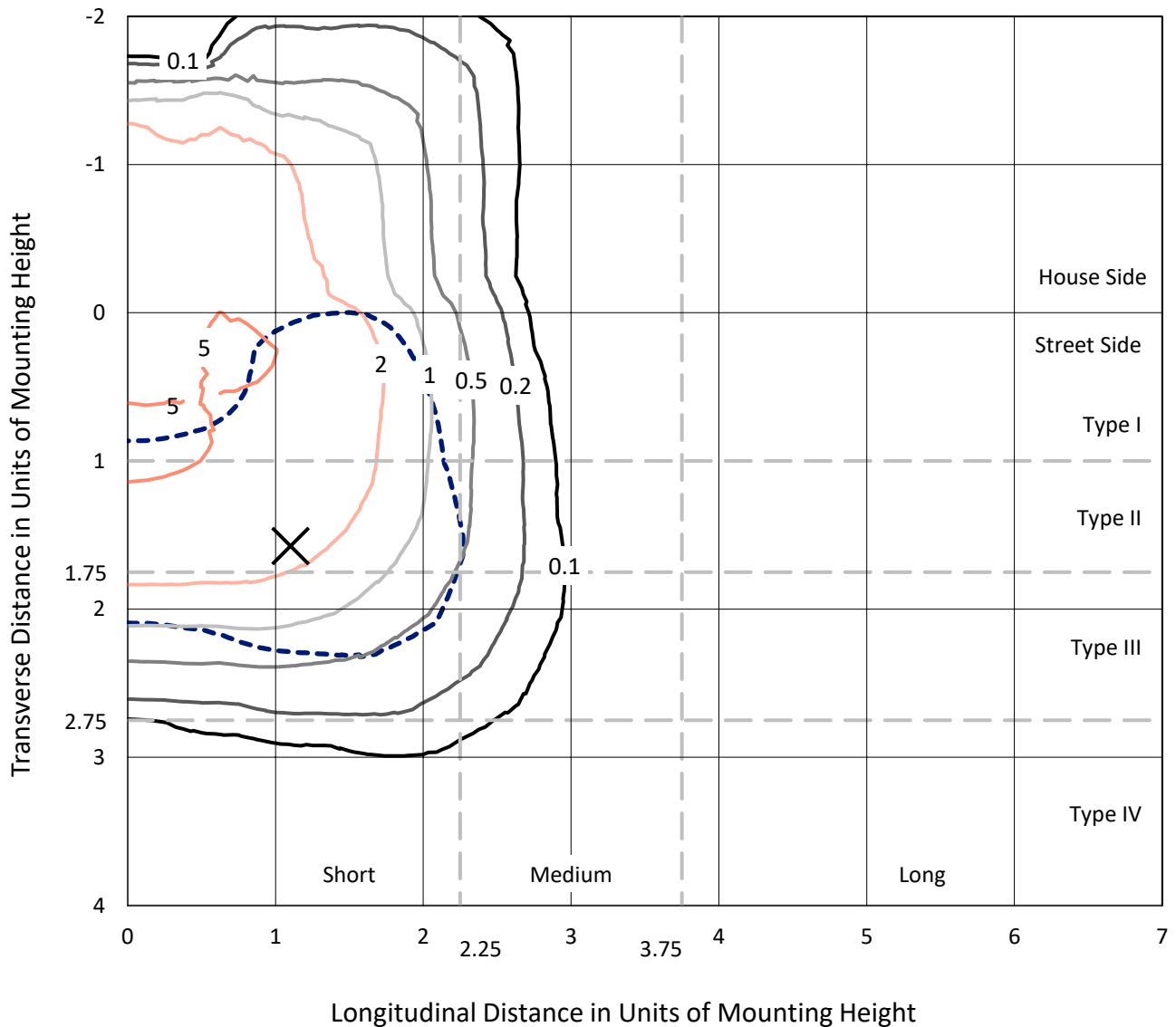
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

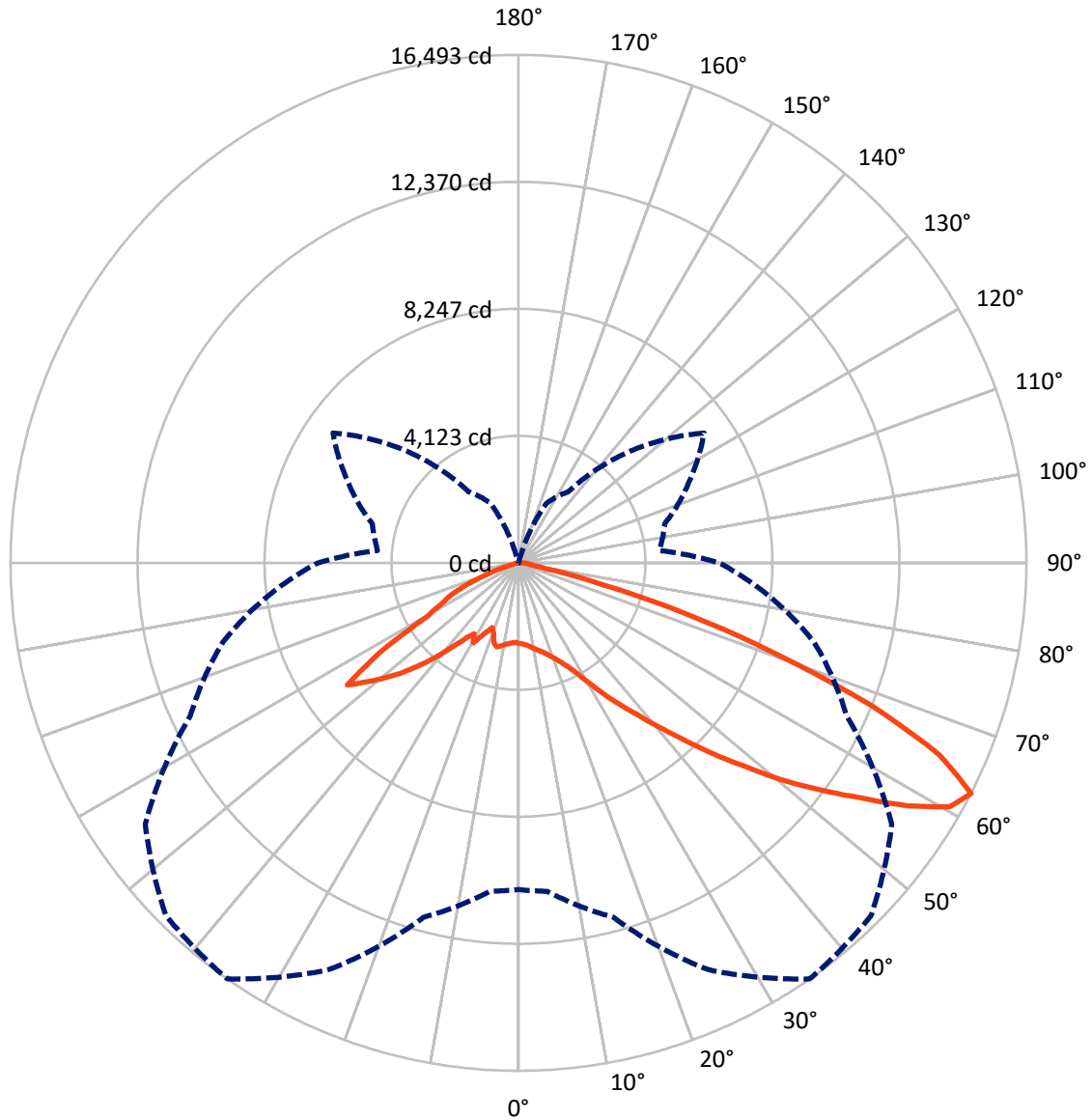
✕ Max cd
 - - - 1/2 Max cd



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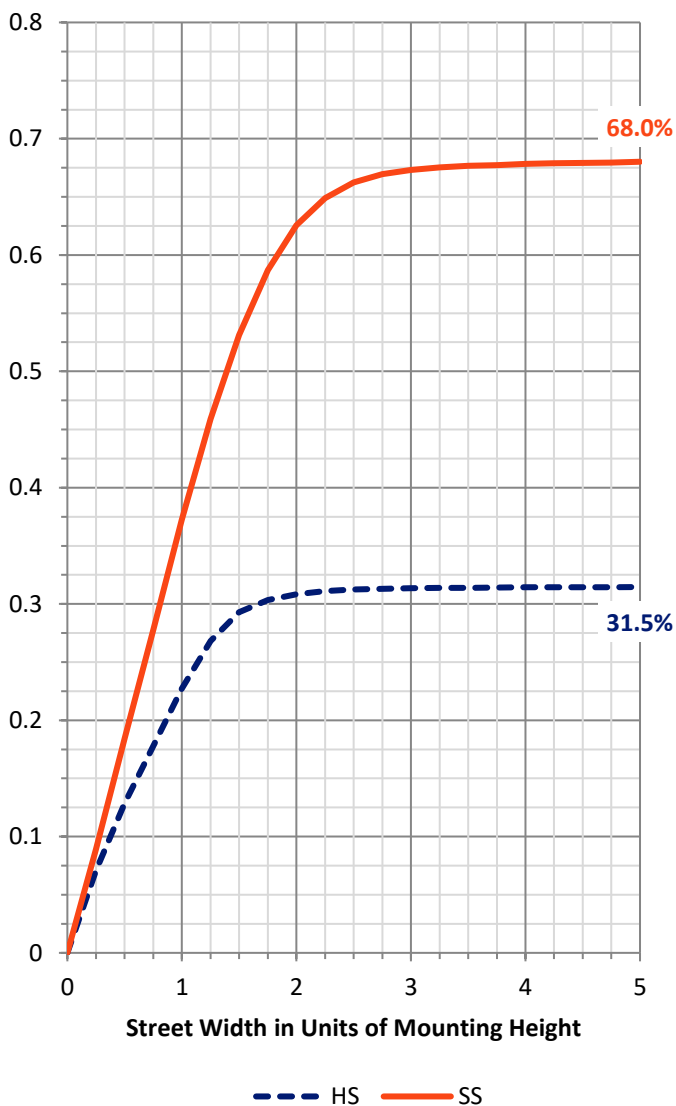
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8534.4	0.0	8534.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	18427.2	15.4	18442.6
	% Fixture	68.3	0.1	68.4
Total	Lumens	26961.6	15.4	26977.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.2	1.0
10°-20°	830.2	3.1
20°-30°	1541.6	5.7
30°-40°	3039.4	11.3
40°-50°	5456.0	20.2
50°-60°	7930.9	29.4
60°-70°	6517.9	24.2
70°-80°	1239.0	4.6
80°-90°	148.3	0.5
90°-100°	14.0	0.1
100°-110°	1.4	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°	26961.6	99.9
0°-180°	26977.0	100.0

Coefficient of Utilization



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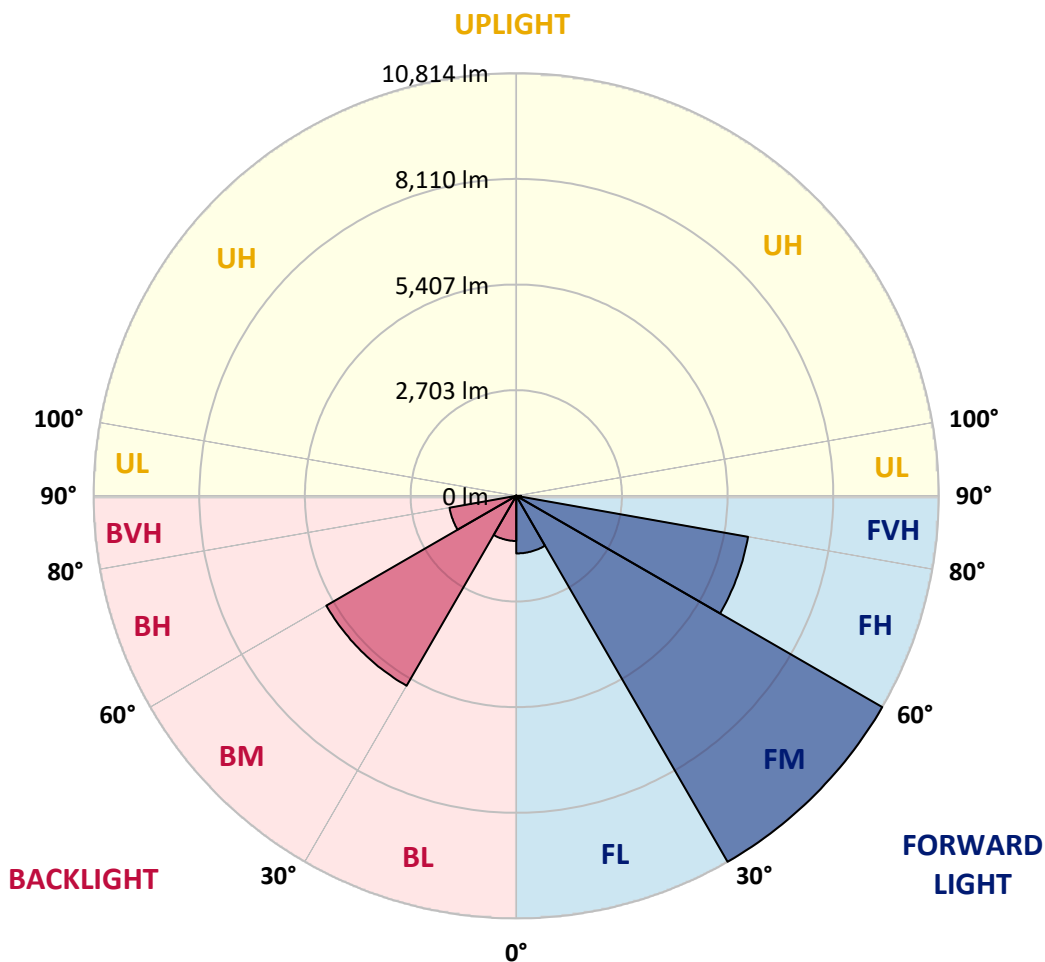
CATALOG NUMBER: CST-CA6-230-760-U-T5N-HSS-HM-EX120

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1474.4	5.5			
FM (30°-60°)	10813.6	40.1			
FH (60°-80°)	6021.9	22.3			G3/7500
FVH (80°-90°)	117.3	0.4			G2/225
BL (0°-30°)	1155.6	4.3	B3/2500		
BM (30°-60°)	5612.7	20.8	B4/8500		
BH (60°-80°)	1735.0	6.4	B3/2500		G3/2500
BVH (80°-90°)	31.0	0.1			G1/100
UL (90°-100°)	14.0	0.1		U2/50	
UH (100°-180°)	1.4	0.0		U1/10	

BUG Rating: B4-U2-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2618.5	2618.5	2618.5	2618.5	2618.5	2618.5	2618.5	2618.5	2618.5	2618.5	2618.5
2.5°	2685.4	2663.5	2665.7	2682.1	2632.8	2649.2	2626.2	2645.9	2637.2	2645.9	2651.4
5°	2739.2	2711.7	2710.6	2727.1	2687.6	2697.5	2671.2	2684.3	2672.3	2683.2	2683.2
7.5°	2804.9	2781.9	2776.4	2789.6	2754.5	2758.9	2732.6	2738.1	2723.8	2738.1	2727.1
10°	2887.2	2866.4	2857.6	2864.2	2832.4	2834.6	2806.0	2808.2	2787.4	2799.5	2790.7
12.5°	2973.8	2945.3	2940.9	2951.9	2919.0	2914.6	2890.5	2892.7	2869.6	2880.6	2874.0
15°	3063.7	3034.1	3035.2	3046.2	3013.3	3015.5	2990.3	2994.6	2971.6	2982.6	2973.8
17.5°	3183.3	3153.6	3151.5	3171.2	3143.8	3152.5	3126.2	3131.7	3115.3	3117.5	3107.6
20°	3354.3	3315.9	3308.3	3336.8	3300.6	3311.5	3297.3	3315.9	3309.4	3303.9	3296.2
22.5°	3558.3	3528.7	3513.3	3535.2	3492.5	3513.3	3521.0	3559.4	3569.2	3562.7	3442.0
25°	3831.3	3816.0	3800.6	3790.7	3739.2	3772.1	3811.6	3875.2	3916.8	3933.3	3765.5
27.5°	4199.7	4207.4	4140.5	4129.6	4071.4	4123.0	4194.3	4297.3	4381.8	4412.5	4186.6
30°	4673.4	4683.3	4592.3	4566.0	4530.9	4574.8	4707.4	4820.4	4945.4	4996.9	4695.4
32.5°	5302.9	5294.1	5160.3	5109.9	5078.1	5095.6	5234.9	5389.5	5529.8	5646.1	5275.4
35°	6071.5	6044.1	5901.6	5762.3	5636.2	5689.9	5791.9	5979.4	6192.2	6363.2	5847.8
37.5°	6964.1	6937.8	6720.7	6493.7	6244.8	6267.8	6358.8	6664.8	6938.9	6983.9	5750.2
40°	7886.3	7875.3	7670.3	7381.9	6994.8	6886.3	7006.9	7379.7	7669.2	6885.2	5977.2
42.5°	8807.4	8754.8	8639.6	8351.2	7835.9	7596.8	7759.1	8131.9	8443.3	7218.5	6503.6
45°	9736.2	9682.4	9584.8	9373.2	8837.0	8489.4	8536.6	8949.9	9231.8	7843.5	7051.8
47.5°	10560.8	10521.3	10451.1	10332.7	9854.6	9539.9	9448.9	9738.4	9930.3	8351.2	7472.9
50°	11271.3	11237.3	11264.7	11225.3	11084.9	10754.9	10454.4	10435.8	10527.9	8803.0	7860.0
52.5°	11896.3	11850.3	11967.6	12106.9	12236.3	12162.8	11435.8	11097.0	11013.6	9141.8	8119.9
55°	12412.8	12396.4	12598.1	12974.2	13466.6	13659.6	12485.2	11707.7	11447.9	9429.1	8144.0
57.5°	12722.0	12761.5	13188.1	13916.2	14878.9	14969.9	13713.3	12356.9	11830.6	9603.5	8259.1
60°	12193.5	12327.3	13094.9	14622.3	16080.7	16120.2	14596.0	12486.3	11329.4	8976.3	7644.0
62.5°	10610.1	10706.6	11913.9	14577.4	16493.0	16192.6	14793.4	11756.0	9929.2	7614.4	6501.4
65°	7497.0	7608.9	9064.0	13145.3	15005.0	15016.0	13551.0	10166.0	7936.7	5895.0	5020.0
67.5°	4522.1	4703.1	6081.4	9543.2	12354.7	12579.5	11305.3	7696.6	5680.1	3848.9	3249.0
70°	1483.6	1649.2	2776.4	5648.3	8906.1	9868.8	8490.5	5001.3	2966.1	1627.3	1310.4
72.5°	587.7	663.4	978.1	2497.9	5739.3	6589.1	5231.6	2416.8	995.7	432.0	376.1
75°	392.6	400.2	451.8	850.9	2808.2	3603.2	2522.0	702.9	369.5	269.7	236.9
77.5°	342.1	343.2	366.2	448.5	914.5	1381.6	725.9	377.2	305.9	221.5	196.3
80°	313.6	318.0	332.3	382.7	418.9	469.3	358.6	314.7	265.4	204.0	185.3
82.5°	300.5	303.7	312.5	346.5	338.8	352.0	289.5	250.0	223.7	187.5	177.6
85°	274.1	279.6	285.1	305.9	278.5	241.2	223.7	167.8	160.1	141.5	130.5
87.5°	207.2	206.1	200.7	204.0	186.4	152.4	126.1	94.3	76.8	63.6	52.6
90°	86.6	87.7	84.4	80.0	70.2	58.1	43.9	26.3	13.2	4.4	2.2
92.5°	65.8	66.9	64.7	58.1	50.4	40.6	29.6	15.4	8.8	3.3	1.1
95°	40.6	41.7	39.5	35.1	30.7	23.0	15.4	9.9	5.5	2.2	0.0
97.5°	24.1	25.2	23.0	20.8	16.4	11.0	8.8	6.6	4.4	2.2	0.0
100°	14.3	14.3	13.2	11.0	7.7	6.6	5.5	4.4	3.3	1.1	0.0
102.5°	6.6	6.6	6.6	4.4	3.3	3.3	3.3	3.3	3.3	1.1	0.0
105°	2.2	2.2	1.1	1.1	1.1	2.2	2.2	2.2	2.2	1.1	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2	2.2	1.1	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	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°	2618.5	2618.5	2618.5	2618.5	2618.5	2618.5	2618.5	2618.5	2618.5	2618.5
2.5°	2645.9	2625.1	2628.4	2609.8	2605.4	2585.6	2620.7	2624.0	2614.1	2624.0
5°	2678.8	2653.6	2660.2	2639.4	2633.9	2606.5	2635.0	2632.8	2625.1	2635.0
7.5°	2727.1	2698.6	2701.9	2677.7	2672.3	2641.6	2667.9	2660.2	2651.4	2663.5
10°	2788.5	2761.1	2762.2	2729.3	2726.0	2690.9	2724.9	2710.6	2697.5	2715.0
12.5°	2874.0	2835.6	2832.4	2796.2	2795.1	2758.9	2794.0	2781.9	2764.4	2791.8
15°	2972.7	2921.2	2908.0	2862.0	2860.9	2822.5	2857.6	2838.9	2830.2	2863.1
17.5°	3101.0	3036.3	2936.5	2779.7	2708.5	2720.5	2844.4	2889.4	2772.1	2789.6
20°	3178.9	2865.3	2719.4	2654.7	2620.7	2425.5	2161.3	2183.2	2443.1	2567.0
22.5°	3047.3	2954.1	2900.3	2809.3	2335.6	2268.7	2284.1	2279.7	1944.2	1844.4
25°	3321.4	3233.7	3136.1	2574.7	2477.1	2448.6	2456.2	2141.5	1958.4	1966.1
27.5°	3716.2	3603.2	2984.8	2741.3	2721.6	2679.9	2528.6	2150.3	2173.3	2188.7
30°	4215.1	3813.8	3178.9	3072.5	3033.0	2988.1	2346.6	2402.5	2445.3	2492.4
32.5°	4697.6	3709.6	3550.6	3439.8	3378.4	2712.8	2647.0	2750.1	2792.9	2833.5
35°	4653.7	4155.9	3949.7	3809.4	3694.2	2927.8	2985.9	3142.7	3255.6	3254.5
37.5°	4774.3	4641.6	4403.7	4226.1	3206.3	3279.7	3401.5	3580.2	3717.3	3716.2
40°	5277.6	5134.0	4910.3	4528.7	3552.8	3723.8	3890.5	4058.3	4157.0	4164.7
42.5°	5777.7	5666.9	5465.1	4000.2	3977.1	4214.0	4388.3	4494.7	4555.0	4575.9
45°	6275.5	6171.3	5369.8	4424.5	4494.7	4729.4	4835.7	4856.6	4921.3	4919.1
47.5°	6671.3	6582.5	4939.9	4928.9	5103.3	5265.6	5231.6	5205.3	5221.7	5230.5
50°	7036.5	5730.5	5325.9	5486.0	5751.3	5771.1	5629.6	4459.6	5521.1	5502.4
52.5°	6536.5	5592.3	5685.6	6060.6	6512.3	6283.2	6006.8	3909.2	5177.9	5670.2
55°	5719.5	5813.8	6024.4	6653.8	7100.1	6828.1	6366.5	4025.4	3436.6	2797.3
57.5°	5833.6	5982.7	6383.0	7252.5	7641.8	5408.1	5942.1	2837.8	1921.1	1920.0
60°	5432.3	5658.1	6375.3	7521.2	6185.6	3465.1	2380.6	64.7	372.8	369.5
62.5°	4592.3	4913.6	6082.5	7351.2	5124.1	2815.9	2120.7	5.5	2.2	2.2
65°	3551.7	3930.0	5071.5	6365.4	4539.7	2425.5	1574.6	0.0	0.0	0.0
67.5°	2329.0	2679.9	3808.3	5287.5	3768.8	1833.4	1058.2	0.0	0.0	0.0
70°	970.4	1403.6	2366.3	3821.4	2772.1	1200.7	502.2	0.0	0.0	0.0
72.5°	280.7	427.7	1065.8	2281.9	1720.5	628.3	186.4	0.0	0.0	0.0
75°	185.3	195.2	322.4	917.8	836.7	230.3	75.7	0.0	0.0	0.0
77.5°	155.7	160.1	205.1	256.6	268.7	91.0	61.4	0.0	0.0	0.0
80°	143.6	144.7	184.2	190.8	143.6	75.7	60.3	0.0	0.0	0.0
82.5°	133.8	130.5	156.8	151.3	119.5	65.8	55.9	0.0	0.0	0.0
85°	92.1	94.3	106.4	134.9	72.4	32.9	39.5	0.0	0.0	0.0
87.5°	28.5	32.9	41.7	42.8	13.2	4.4	0.0	0.0	0.0	0.0
90°	1.1	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)