

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: P579496

Luminaire Tested: **CST-CA6-230-740-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579496  
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-CA6-230-740-U-T5-HSS-HM-EX120  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (6) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25330 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U2 - G4

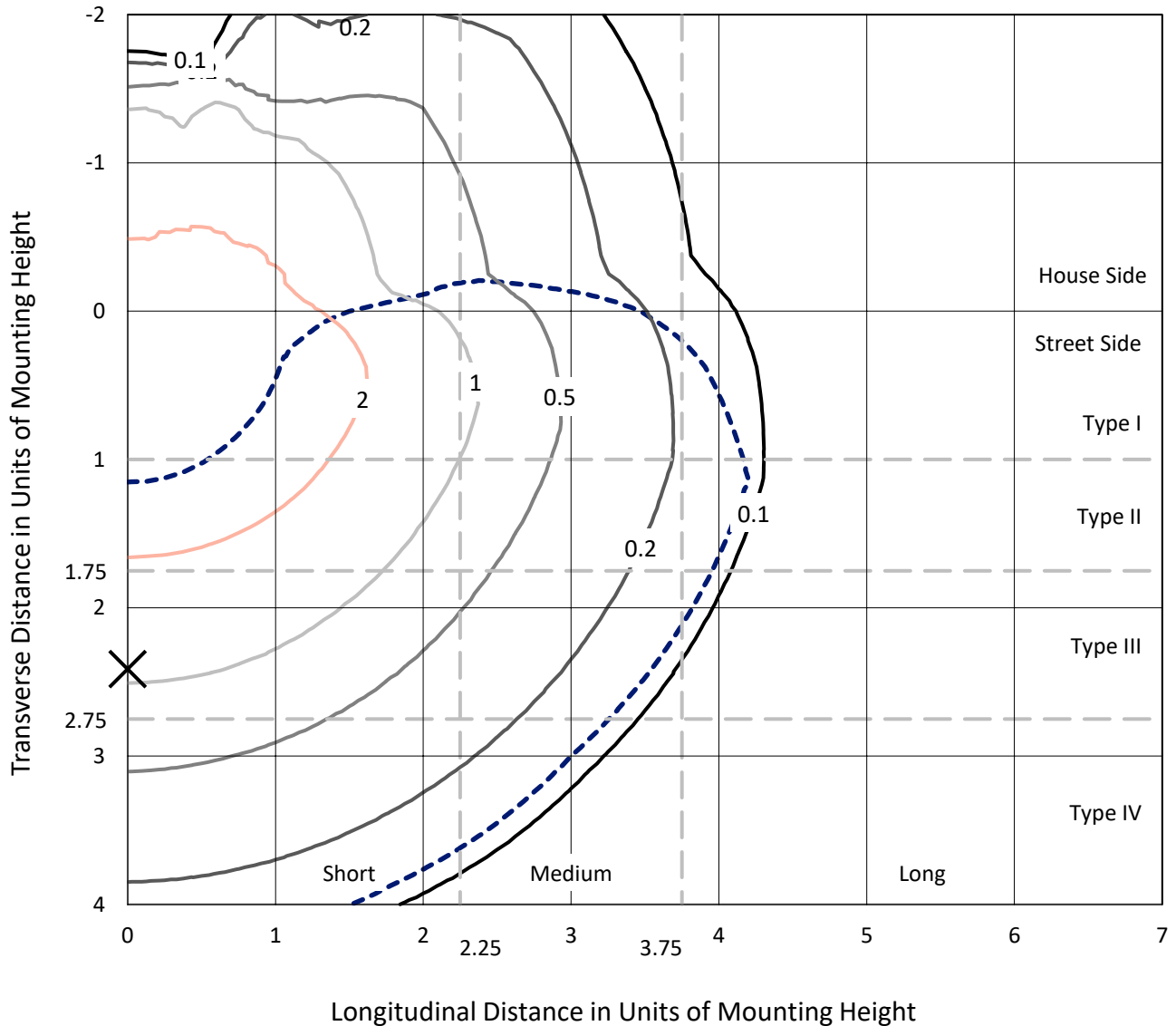
Input Watts (W): 227.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

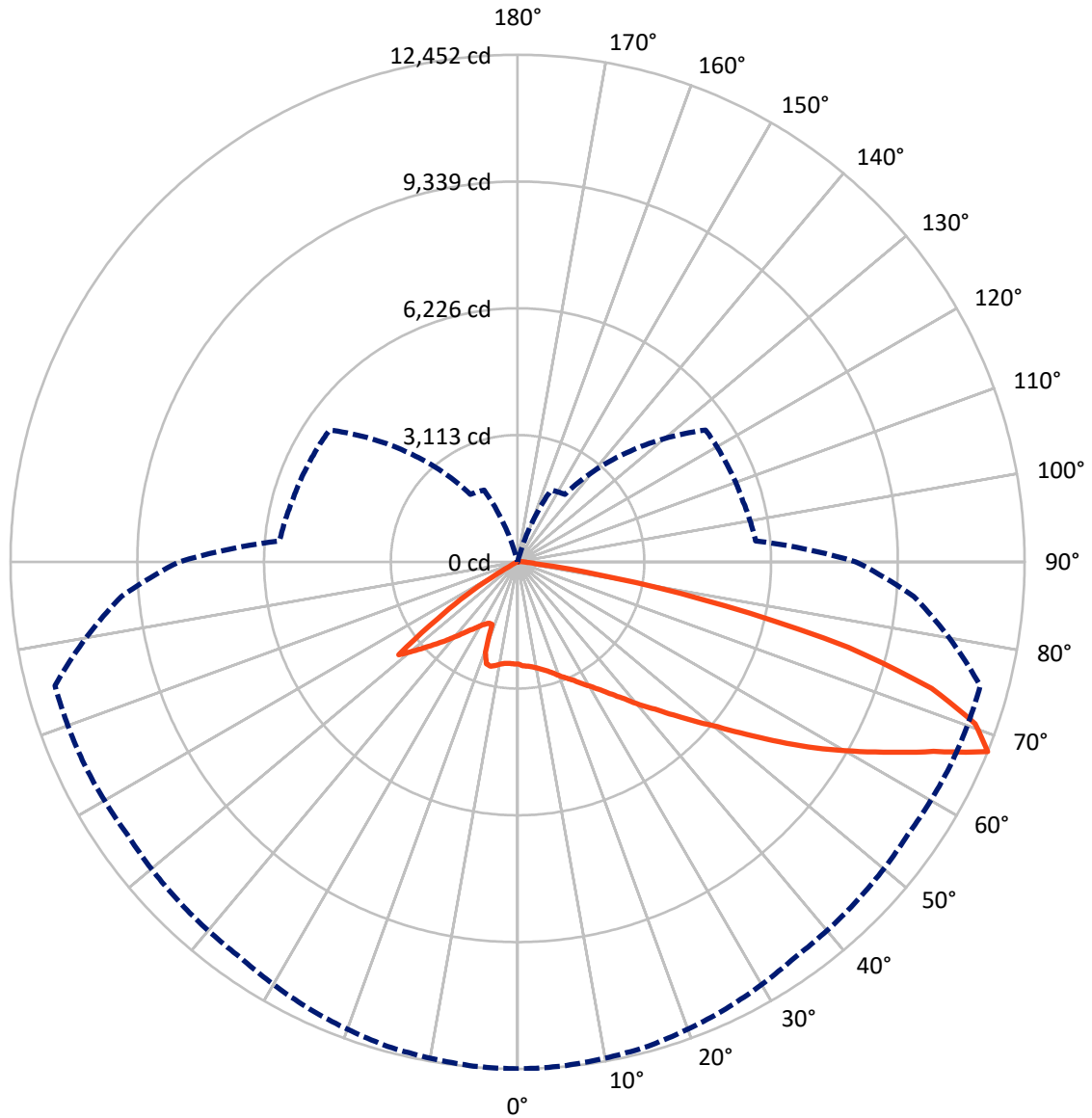
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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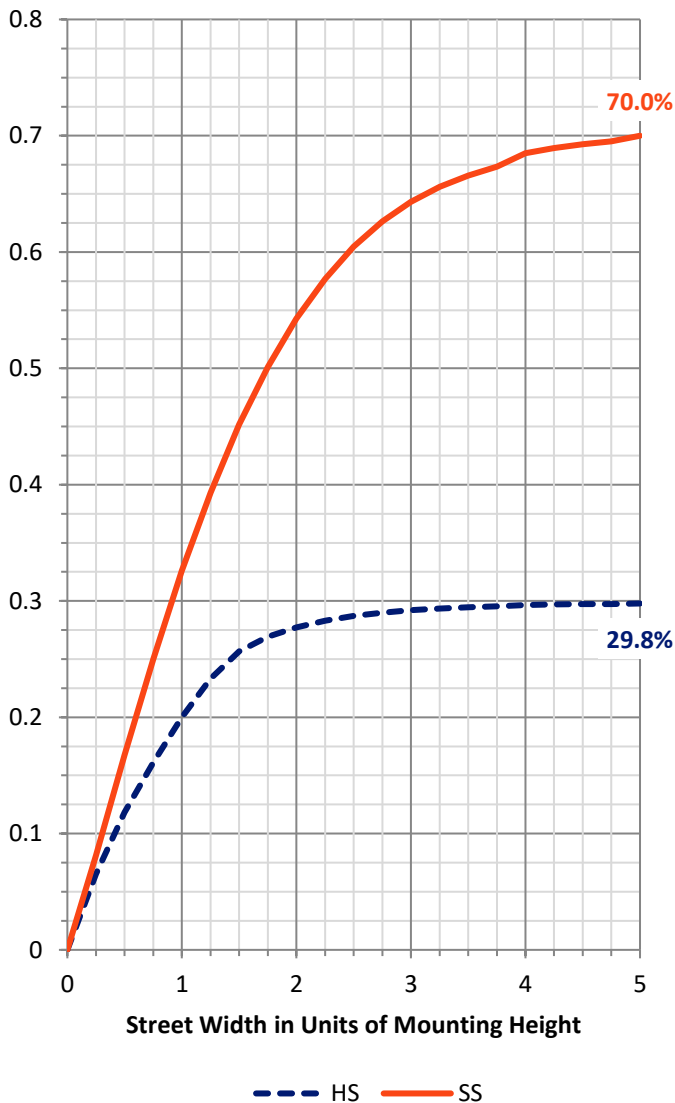
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7561.1	2.6	7563.7
	% Fixture	29.9	0.0	29.9
<b>Street Side</b>	Lumens	17737.8	28.5	17766.3
	% Fixture	70.0	0.1	70.1
<b>Total</b>	Lumens	25299.0	31.1	25330.0
	% Fixture	99.9	0.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.0	1.0
10°-20°	749.1	3.0
20°-30°	1257.2	5.0
30°-40°	2038.6	8.0
40°-50°	3331.2	13.2
50°-60°	5220.6	20.6
60°-70°	6992.0	27.6
70°-80°	5096.2	20.1
80°-90°	372.2	1.5
90°-100°	23.8	0.1
100°-110°	6.8	0.0
110°-120°	0.5	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°	25299.0	99.9
0°-180°	25330.0	100.0

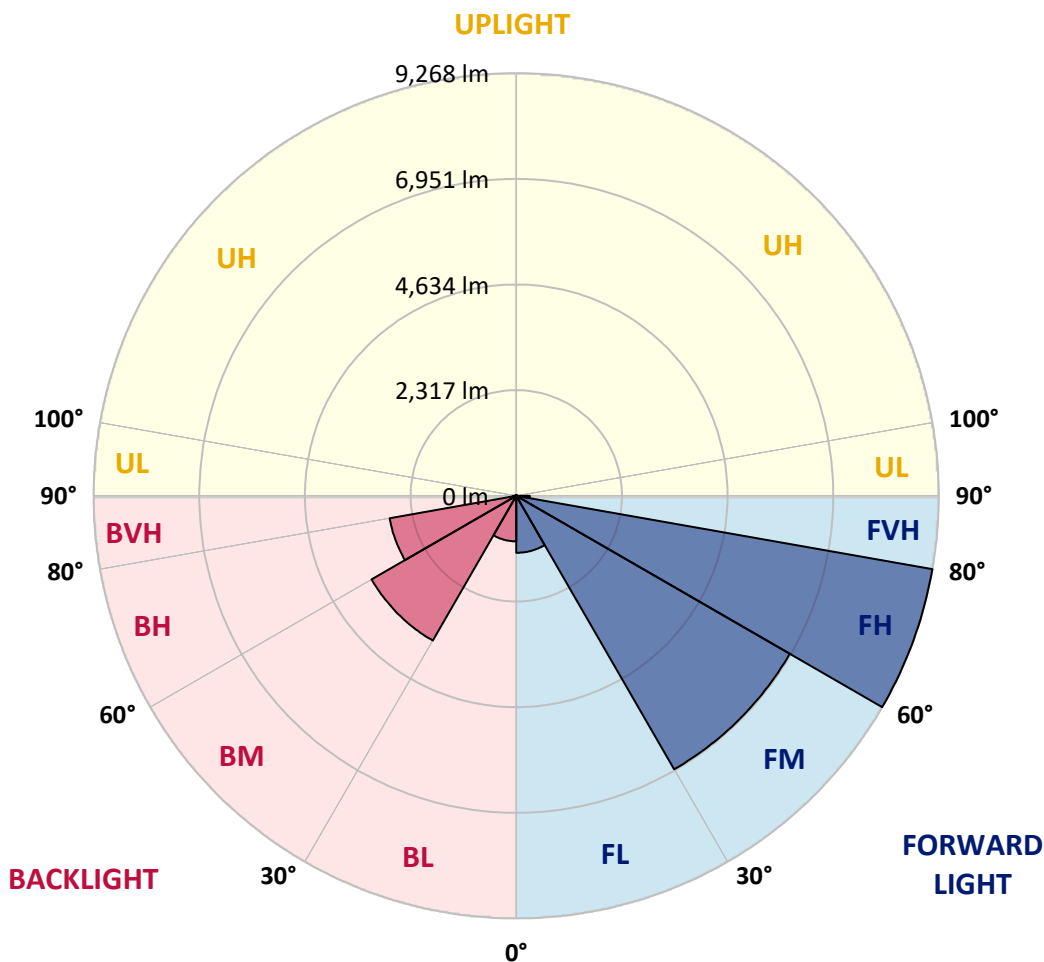


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1249.4	4.9			
FM (30°-60°)	6925.7	27.3			
FH (60°-80°)	9268.4	36.6			G4/12000
FVH (80°-90°)	294.3	1.2			G3/500
BL (0°-30°)	998.8	3.9	B2/1000		
BM (30°-60°)	3664.7	14.5	B3/5000		
BH (60°-80°)	2819.8	11.1	B4/5000		G4/5000
BVH (80°-90°)	77.9	0.3			G1/100
UL (90°-100°)	23.8	0.1		U2/50	
UH (100°-180°)	7.3	0.0		U1/10	

**BUG Rating: B4-U2-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2509.9	2509.9	2509.9	2509.9	2509.9	2509.9	2509.9	2509.9	2509.9	2509.9	2509.9
2.5°	2557.8	2542.9	2544.0	2557.8	2516.3	2530.1	2512.0	2525.9	2516.3	2519.5	2525.9
5°	2573.8	2557.8	2558.9	2575.9	2538.7	2550.4	2525.9	2533.3	2524.8	2529.1	2529.1
7.5°	2605.8	2587.6	2586.6	2597.2	2558.9	2563.2	2540.8	2541.9	2529.1	2537.6	2533.3
10°	2653.7	2638.8	2628.1	2634.5	2600.4	2598.3	2569.5	2570.6	2554.6	2564.2	2556.8
12.5°	2712.2	2692.0	2689.9	2692.0	2654.7	2646.2	2616.4	2618.5	2589.8	2604.7	2596.2
15°	2786.8	2754.8	2754.8	2766.5	2718.6	2712.2	2676.0	2678.2	2648.3	2660.1	2651.5
17.5°	2878.4	2847.5	2842.2	2850.7	2809.1	2800.6	2763.4	2761.2	2728.2	2731.4	2724.0
20°	2996.6	2965.7	2952.9	2974.2	2922.0	2915.6	2870.9	2866.6	2831.5	2821.9	2817.7
22.5°	3106.2	3081.8	3075.4	3098.8	3044.5	3039.2	2996.6	2991.2	2958.2	2944.4	2860.3
25°	3229.8	3224.4	3222.3	3229.8	3178.7	3168.0	3135.0	3127.5	3099.9	3082.8	2980.6
27.5°	3389.5	3387.4	3381.0	3382.0	3335.2	3325.6	3294.7	3289.4	3260.7	3241.5	3110.5
30°	3556.7	3556.7	3542.8	3550.3	3526.9	3512.0	3487.5	3468.3	3450.2	3430.0	3264.9
32.5°	3749.4	3748.4	3735.6	3757.9	3740.9	3740.9	3726.0	3705.8	3673.8	3664.2	3464.0
35°	3997.5	3981.6	3976.2	4012.5	4007.1	4016.7	4011.4	3990.1	3963.5	3941.1	3698.3
37.5°	4272.3	4268.0	4284.0	4306.4	4318.1	4343.6	4327.7	4326.6	4322.3	4265.9	3635.5
40°	4610.9	4592.8	4615.2	4626.9	4618.4	4659.9	4646.1	4657.8	4689.7	4236.1	3631.2
42.5°	4948.5	4932.5	4948.5	5006.0	4993.2	5043.3	5036.9	5082.7	5100.8	4298.9	3926.2
45°	5363.8	5345.7	5358.5	5426.6	5433.0	5493.7	5526.7	5570.4	5578.9	4705.7	4281.9
47.5°	5840.8	5811.0	5835.5	5867.5	5964.4	6021.9	6053.8	6107.1	6161.4	5195.5	4686.5
50°	6366.9	6364.8	6391.4	6446.8	6557.5	6615.0	6670.4	6725.8	6815.2	5741.8	5140.2
52.5°	7035.6	7021.8	7067.6	7119.8	7217.7	7306.1	7372.1	7429.6	7525.5	6294.5	5631.1
55°	7800.2	7752.3	7839.6	7928.0	7969.5	8073.9	8119.7	8167.6	8259.2	6875.9	5917.5
57.5°	8625.5	8613.8	8674.5	8706.4	8795.9	8860.8	8885.3	8937.5	8936.4	7480.8	6405.2
60°	9438.0	9425.2	9496.6	9515.7	9587.1	9645.7	9637.1	9684.0	9701.0	8048.3	6883.4
62.5°	10293.1	10271.8	10337.8	10342.1	10299.5	10394.3	10384.7	10424.1	10409.2	8603.1	7354.0
65°	11228.1	11244.0	11265.3	11178.0	11075.8	11157.8	11155.6	11230.2	11283.4	9378.4	7984.4
67.5°	12451.6	12431.4	12321.7	12110.8	11862.7	11779.7	11691.3	11745.6	11760.5	9763.9	8307.1
70°	11923.4	11878.7	11829.7	11614.6	11315.4	11104.5	10967.2	11024.7	11085.4	9227.2	7802.3
72.5°	10636.0	10525.2	10297.4	10107.8	9935.3	9729.8	9562.6	9662.7	9795.8	8184.6	6908.9
75°	8391.2	8287.9	8121.8	7993.0	7900.3	7898.2	7890.7	7968.5	7949.3	6645.9	5617.2
77.5°	5196.6	5412.8	5566.1	5456.4	5494.8	5416.0	5589.5	5691.8	5784.4	4764.3	4001.8
80°	2399.2	2454.5	2726.1	2655.8	2599.4	2583.4	2594.0	2771.9	2824.1	2138.3	1791.1
82.5°	547.3	525.0	544.2	504.8	502.6	479.2	482.4	482.4	465.4	394.0	330.1
85°	276.9	283.3	285.4	273.7	241.7	217.2	201.3	170.4	147.0	125.7	106.5
87.5°	185.3	190.6	193.8	177.8	159.7	139.5	126.7	103.3	82.0	51.1	39.4
90°	126.7	125.7	122.5	113.9	102.2	87.3	70.3	49.0	28.8	10.6	7.5
92.5°	90.5	88.4	87.3	79.9	71.3	59.6	45.8	30.9	16.0	7.5	4.3
95°	59.6	58.6	58.6	54.3	47.9	39.4	30.9	20.2	11.7	6.4	4.3
97.5°	41.5	40.5	40.5	38.3	34.1	28.8	21.3	13.8	9.6	6.4	4.3
100°	28.8	28.8	28.8	26.6	24.5	20.2	16.0	10.6	8.5	6.4	4.3
102.5°	19.2	19.2	20.2	19.2	17.0	13.8	10.6	8.5	7.5	5.3	4.3
105°	12.8	12.8	12.8	12.8	11.7	9.6	8.5	7.5	6.4	5.3	4.3
107.5°	8.5	8.5	8.5	8.5	7.5	6.4	6.4	6.4	5.3	5.3	4.3
110°	5.3	5.3	5.3	6.4	5.3	5.3	5.3	5.3	5.3	4.3	4.3



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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°	2509.9	2509.9	2509.9	2509.9	2509.9	2509.9	2509.9	2509.9	2509.9	2509.9
2.5°	2520.6	2505.7	2513.1	2498.2	2491.8	2478.0	2504.6	2506.7	2504.6	2508.8
5°	2523.8	2506.7	2515.2	2498.2	2495.0	2479.0	2505.7	2505.7	2499.3	2502.5
7.5°	2531.2	2513.1	2519.5	2499.3	2499.3	2480.1	2512.0	2509.9	2504.6	2512.0
10°	2556.8	2535.5	2535.5	2516.3	2518.4	2498.2	2537.6	2537.6	2533.3	2546.1
12.5°	2596.2	2569.5	2570.6	2544.0	2548.2	2532.3	2580.2	2582.3	2582.3	2603.6
15°	2647.3	2606.8	2611.1	2582.3	2590.8	2571.7	2614.3	2612.1	2617.5	2648.3
17.5°	2710.1	2665.4	2628.1	2534.4	2479.0	2481.2	2607.9	2666.5	2598.3	2618.5
20°	2736.7	2519.5	2401.3	2367.2	2359.8	2241.6	1999.8	2037.1	2265.0	2364.0
22.5°	2557.8	2488.6	2476.9	2433.2	2110.6	2021.1	2036.0	2014.7	1791.1	1664.4
25°	2645.2	2599.4	2572.7	2188.3	2115.9	2099.9	2089.3	1887.0	1644.2	1655.9
27.5°	2768.7	2709.0	2389.6	2197.9	2211.7	2187.3	2125.5	1697.4	1690.0	1709.1
30°	2914.6	2764.4	2328.9	2310.8	2326.8	2294.8	1786.9	1769.8	1769.8	1789.0
32.5°	3093.5	2507.8	2471.6	2473.7	2463.1	2101.0	1880.6	1876.3	1889.1	1905.1
35°	3043.4	2675.0	2678.2	2696.3	2671.8	2055.2	2027.5	2011.6	2022.2	2028.6
37.5°	2945.4	2926.3	2926.3	2906.0	2281.0	2216.0	2186.2	2184.1	2183.0	2183.0
40°	3192.5	3174.4	3152.0	3116.9	2386.4	2403.4	2358.7	2353.4	2356.6	2368.3
42.5°	3473.6	3466.2	3464.0	2675.0	2605.8	2618.5	2570.6	2556.8	2556.8	2583.4
45°	3804.8	3795.2	3559.9	2859.2	2847.5	2862.4	2809.1	2776.1	2794.2	2813.4
47.5°	4185.0	4185.0	3152.0	3135.0	3135.0	3143.5	3090.3	3045.5	3063.6	3070.0
50°	4601.3	3950.7	3468.3	3452.3	3467.2	3463.0	3407.6	2992.3	3376.7	3379.9
52.5°	4717.4	3842.1	3815.5	3797.3	3815.5	3812.3	3754.8	2496.1	3652.5	3704.7
55°	4181.8	4185.0	4179.6	4153.0	4172.2	4164.7	4108.3	2725.0	2693.1	2400.2
57.5°	4521.5	4525.7	4523.6	4519.3	4536.4	3295.8	4255.2	2462.0	1503.6	1504.7
60°	4891.0	4869.7	4863.3	4853.7	4113.6	2336.3	1773.0	171.4	587.8	579.3
62.5°	5226.4	5219.0	5196.6	5191.3	3490.7	1840.1	1797.5	39.4	30.9	29.8
65°	5692.8	5626.8	5608.7	5552.3	3720.7	1959.4	1918.9	11.7	1.1	0.0
67.5°	5866.4	5732.2	5667.3	5637.5	3785.6	2021.1	1943.4	11.7	1.1	0.0
70°	5538.4	5372.3	5290.3	5257.3	3537.5	1889.1	1812.4	11.7	1.1	0.0
72.5°	4911.2	4788.7	4755.7	4650.3	3119.0	1658.0	1590.9	11.7	0.0	0.0
75°	4028.4	3983.7	3943.2	3831.4	2535.5	1317.3	1257.6	10.6	0.0	0.0
77.5°	2931.6	2865.6	2791.0	2669.6	1711.3	860.4	829.5	9.6	0.0	0.0
80°	1321.5	1267.2	1249.1	1059.6	607.0	280.1	247.1	8.5	0.0	0.0
82.5°	256.6	231.1	219.4	210.8	136.3	75.6	66.0	6.4	0.0	0.0
85°	87.3	96.9	112.9	124.6	76.7	45.8	38.3	4.3	0.0	0.0
87.5°	34.1	45.8	55.4	57.5	28.8	19.2	10.6	2.1	0.0	0.0
90°	6.4	8.5	7.5	5.3	3.2	1.1	0.0	0.0	0.0	0.0
92.5°	3.2	4.3	3.2	3.2	2.1	1.1	0.0	0.0	0.0	0.0
95°	4.3	4.3	4.3	3.2	2.1	1.1	0.0	0.0	0.0	0.0
97.5°	4.3	4.3	4.3	3.2	2.1	1.1	0.0	0.0	0.0	0.0
100°	4.3	4.3	4.3	3.2	2.1	1.1	0.0	0.0	0.0	0.0
102.5°	4.3	4.3	4.3	3.2	2.1	1.1	0.0	0.0	0.0	0.0
105°	4.3	5.3	4.3	3.2	2.1	1.1	0.0	0.0	0.0	0.0
107.5°	4.3	5.3	4.3	3.2	2.1	1.1	0.0	0.0	0.0	0.0
110°	4.3	5.3	4.3	3.2	2.1	1.1	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)