

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: P579598

Luminaire Tested: **CST-CA8-230-760-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579598  
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-CA8-230-760-U-T5-HSS-HM-EX120  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (8) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26267 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U2 - G4

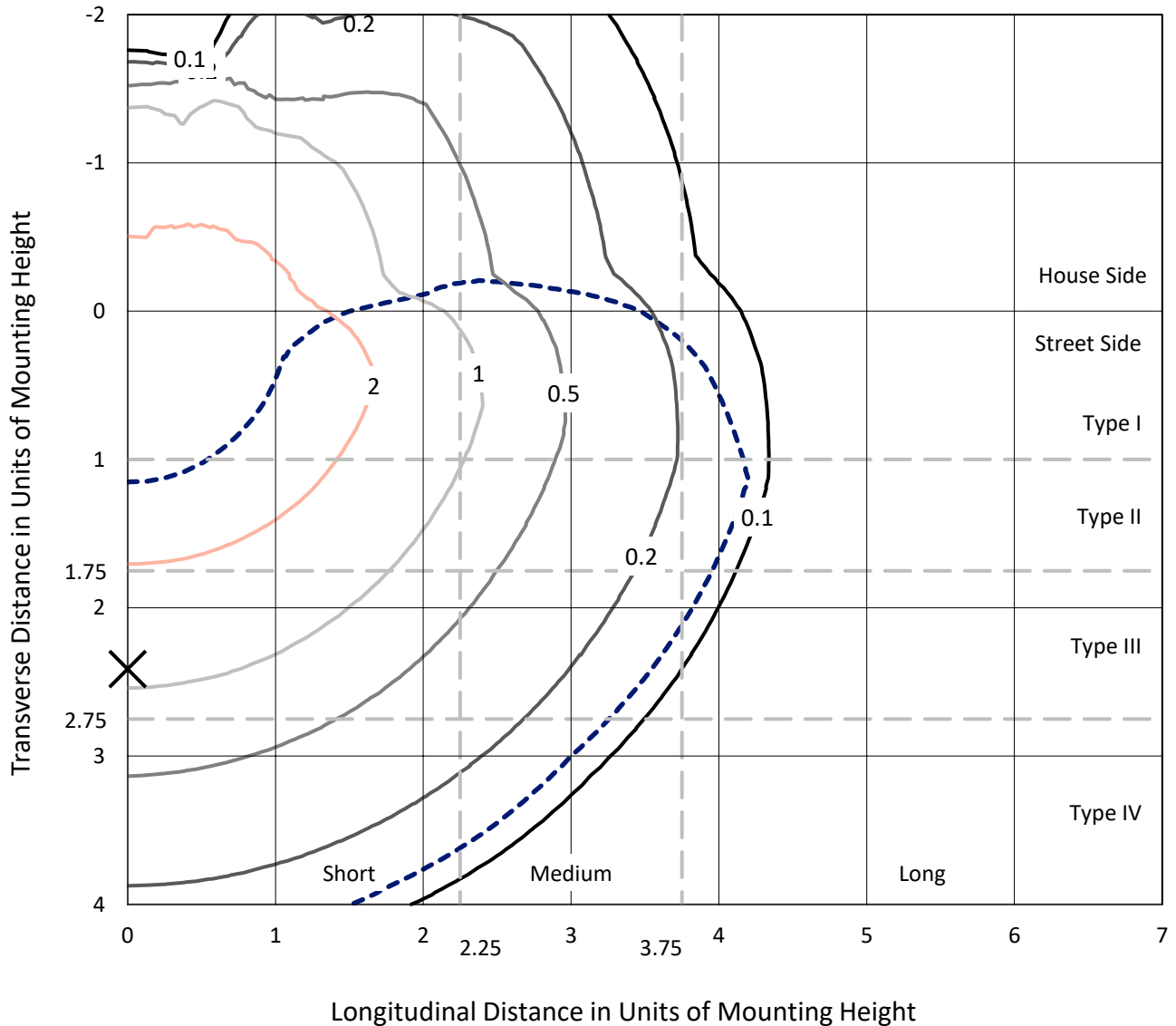
Input Watts (W): 228.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

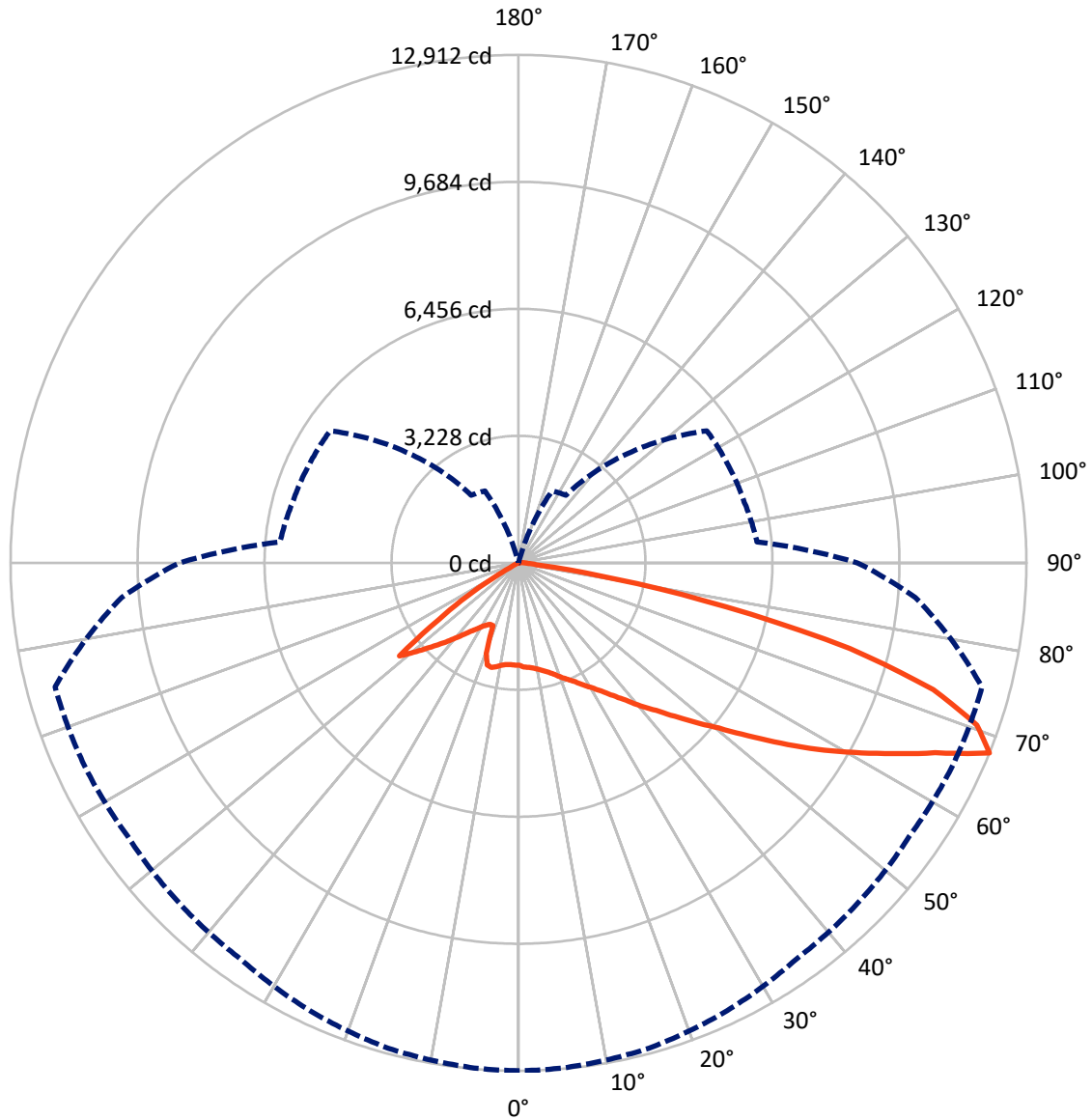
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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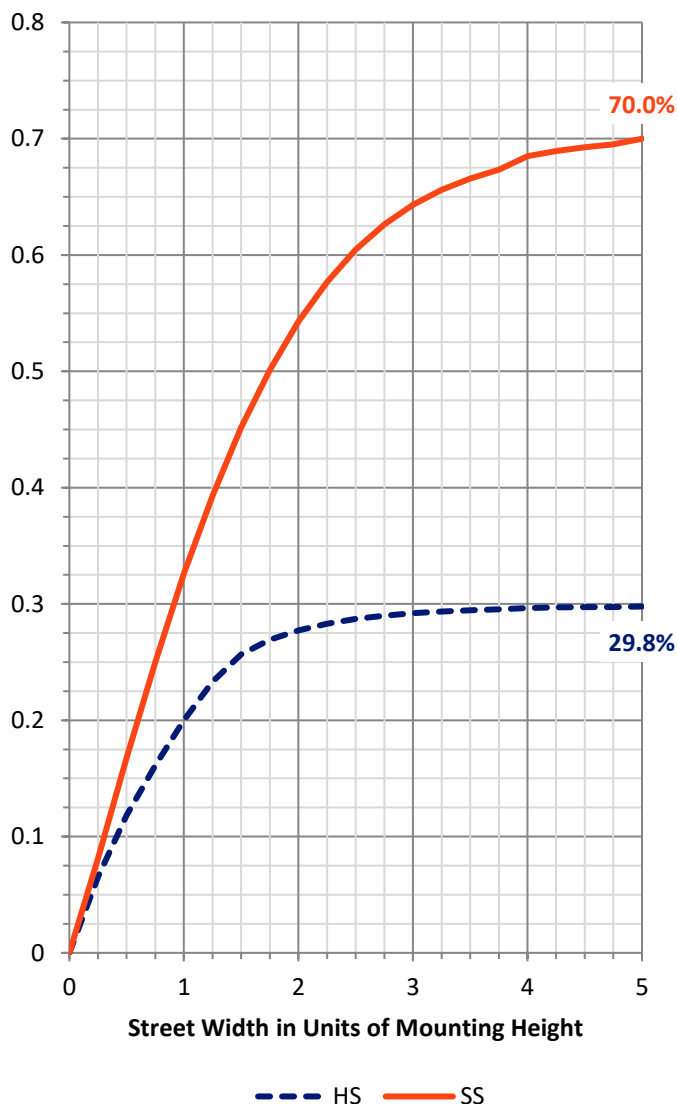
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7840.8	2.6	7843.5
	% Fixture	29.9	0.0	29.9
<b>Street Side</b>	Lumens	18394.0	29.6	18423.5
	% Fixture	70.0	0.1	70.1
<b>Total</b>	Lumens	26234.8	32.2	26267.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.9	1.0
10°-20°	776.8	3.0
20°-30°	1303.7	5.0
30°-40°	2114.0	8.0
40°-50°	3454.4	13.2
50°-60°	5413.7	20.6
60°-70°	7250.6	27.6
70°-80°	5284.7	20.1
80°-90°	385.9	1.5
90°-100°	24.7	0.1
100°-110°	7.0	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°	26234.8	99.9
0°-180°	26267.0	100.0

**Coefficient of Utilization**



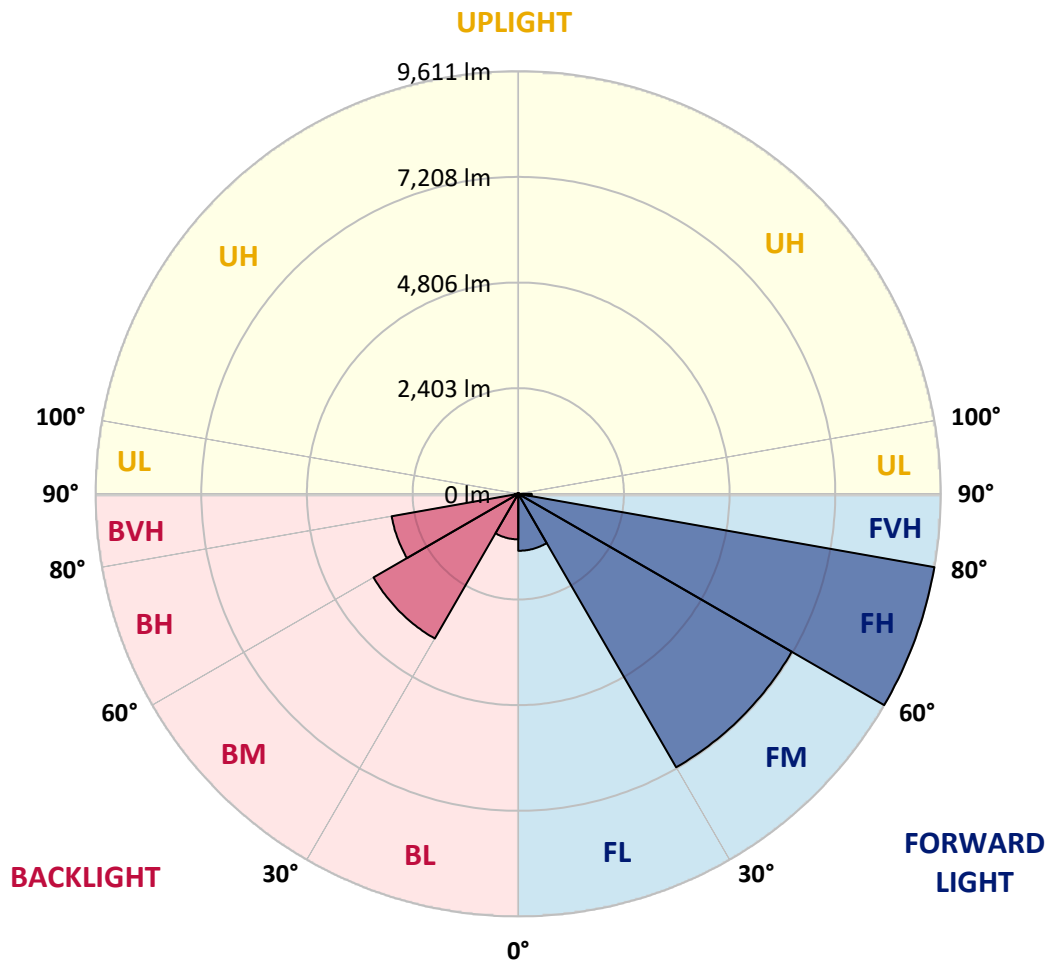
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1295.6	4.9			
FM (30°-60°)	7181.9	27.3			
FH (60°-80°)	9611.3	36.6			G4/12000
FVH (80°-90°)	305.2	1.2			G3/500
BL (0°-30°)	1035.8	3.9	B3/2500		
BM (30°-60°)	3800.2	14.5	B3/5000		
BH (60°-80°)	2924.1	11.1	B4/5000		G4/5000
BVH (80°-90°)	80.7	0.3			G1/100
UL (90°-100°)	24.7	0.1		U2/50	
UH (100°-180°)	7.5	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°	2602.8	2602.8	2602.8	2602.8	2602.8	2602.8	2602.8	2602.8	2602.8	2602.8	2602.8
2.5°	2652.5	2637.0	2638.1	2652.5	2609.4	2623.7	2605.0	2619.3	2609.4	2612.7	2619.3
5°	2669.0	2652.5	2653.6	2671.2	2632.6	2644.7	2619.3	2627.1	2618.2	2622.6	2622.6
7.5°	2702.1	2683.4	2682.3	2693.3	2653.6	2658.0	2634.8	2635.9	2622.6	2631.5	2627.1
10°	2751.8	2736.4	2725.3	2732.0	2696.6	2694.4	2664.6	2665.7	2649.1	2659.1	2651.3
12.5°	2812.6	2791.6	2789.4	2791.6	2752.9	2744.1	2713.2	2715.4	2685.6	2701.0	2692.2
15°	2889.9	2856.7	2856.7	2868.9	2819.2	2812.6	2775.0	2777.2	2746.3	2758.5	2749.6
17.5°	2984.8	2952.8	2947.3	2956.1	2913.1	2904.2	2865.6	2863.4	2829.1	2832.4	2824.7
20°	3107.4	3075.4	3062.1	3084.2	3030.1	3023.5	2977.1	2972.7	2936.2	2926.3	2921.9
22.5°	3221.1	3195.8	3189.1	3213.4	3157.1	3151.6	3107.4	3101.9	3067.7	3053.3	2966.1
25°	3349.2	3343.7	3341.5	3349.2	3296.2	3285.2	3251.0	3243.2	3214.5	3196.9	3090.8
27.5°	3514.9	3512.7	3506.1	3507.2	3458.6	3448.6	3416.6	3411.1	3381.3	3361.4	3225.6
30°	3688.3	3688.3	3673.9	3681.6	3657.3	3641.9	3616.5	3596.6	3577.8	3556.8	3385.7
32.5°	3888.1	3887.0	3873.8	3897.0	3879.3	3879.3	3863.8	3842.9	3809.7	3799.8	3592.2
35°	4145.4	4128.9	4123.3	4160.9	4155.4	4165.3	4159.8	4137.7	4110.1	4086.9	3835.1
37.5°	4430.3	4425.9	4442.5	4465.7	4477.8	4504.3	4487.7	4486.6	4482.2	4423.7	3770.0
40°	4781.5	4762.7	4785.9	4798.0	4789.2	4832.3	4817.9	4830.1	4863.2	4392.8	3765.6
42.5°	5131.5	5115.0	5131.5	5191.2	5177.9	5229.8	5223.2	5270.7	5289.4	4457.9	4071.4
45°	5562.2	5543.4	5556.7	5627.4	5634.0	5696.9	5731.2	5776.4	5785.3	4879.8	4440.3
47.5°	6056.9	6026.0	6051.4	6084.5	6185.0	6244.6	6277.8	6333.0	6389.3	5387.7	4859.9
50°	6602.4	6600.2	6627.8	6685.2	6800.1	6859.7	6917.1	6974.6	7067.3	5954.2	5330.3
52.5°	7295.9	7281.5	7329.0	7383.1	7484.7	7576.4	7644.8	7704.5	7803.9	6527.3	5839.4
55°	8088.8	8039.1	8129.6	8221.3	8264.3	8372.6	8420.0	8469.7	8564.7	7130.3	6136.4
57.5°	8944.6	8932.4	8995.4	9028.5	9121.3	9188.6	9214.0	9268.1	9267.0	7757.5	6642.2
60°	9787.1	9773.9	9847.9	9867.7	9941.7	10002.5	9993.6	10042.2	10059.9	8346.1	7138.0
62.5°	10673.9	10651.8	10720.2	10724.7	10680.5	10778.8	10768.8	10809.7	10794.2	8921.4	7626.1
65°	11643.4	11660.0	11682.1	11591.5	11485.5	11570.5	11568.3	11645.6	11700.8	9725.3	8279.8
67.5°	12912.2	12891.2	12777.5	12558.8	12301.5	12215.4	12123.8	12180.1	12195.5	10125.0	8614.4
70°	12364.5	12318.1	12267.3	12044.3	11734.0	11515.3	11372.9	11432.5	11495.4	9568.5	8091.0
72.5°	11029.4	10914.6	10678.3	10481.7	10302.8	10089.7	9916.3	10020.1	10158.2	8487.4	7164.5
75°	8701.6	8594.5	8422.3	8288.6	8192.6	8190.4	8182.6	8263.2	8243.4	6891.7	5825.0
77.5°	5388.8	5613.0	5772.0	5658.3	5698.0	5616.3	5796.3	5902.3	5998.4	4940.5	4149.8
80°	2487.9	2545.3	2826.9	2754.0	2695.5	2679.0	2690.0	2874.4	2928.5	2217.4	1857.4
82.5°	567.6	544.4	564.3	523.4	521.2	496.9	500.2	500.2	482.6	408.6	342.3
85°	287.1	293.7	295.9	283.8	250.7	225.3	208.7	176.7	152.4	130.3	110.4
87.5°	192.1	197.7	201.0	184.4	165.6	144.7	131.4	107.1	85.0	53.0	40.9
90°	131.4	130.3	127.0	118.2	106.0	90.5	72.9	50.8	29.8	11.0	7.7
92.5°	93.9	91.7	90.5	82.8	74.0	61.8	47.5	32.0	16.6	7.7	4.4
95°	61.8	60.7	60.7	56.3	49.7	40.9	32.0	21.0	12.1	6.6	4.4
97.5°	43.1	42.0	42.0	39.8	35.3	29.8	22.1	14.4	9.9	6.6	4.4
100°	29.8	29.8	29.8	27.6	25.4	21.0	16.6	11.0	8.8	6.6	4.4
102.5°	19.9	19.9	21.0	19.9	17.7	14.4	11.0	8.8	7.7	5.5	4.4
105°	13.3	13.3	13.3	13.3	12.1	9.9	8.8	7.7	6.6	5.5	4.4
107.5°	8.8	8.8	8.8	8.8	7.7	6.6	6.6	6.6	5.5	5.5	4.4
110°	5.5	5.5	5.5	6.6	5.5	5.5	5.5	5.5	5.5	4.4	4.4



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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°	2602.8	2602.8	2602.8	2602.8	2602.8	2602.8	2602.8	2602.8	2602.8	2602.8
2.5°	2613.8	2598.3	2606.1	2590.6	2584.0	2569.6	2597.2	2599.4	2597.2	2601.7
5°	2617.1	2599.4	2608.3	2590.6	2587.3	2570.7	2598.3	2598.3	2591.7	2595.0
7.5°	2624.8	2606.1	2612.7	2591.7	2591.7	2571.8	2605.0	2602.8	2597.2	2605.0
10°	2651.3	2629.3	2629.3	2609.4	2611.6	2590.6	2631.5	2631.5	2627.1	2640.3
12.5°	2692.2	2664.6	2665.7	2638.1	2642.5	2625.9	2675.6	2677.9	2677.9	2699.9
15°	2745.2	2703.2	2707.7	2677.9	2686.7	2666.8	2711.0	2708.8	2714.3	2746.3
17.5°	2810.4	2764.0	2725.3	2628.2	2570.7	2572.9	2704.4	2765.1	2694.4	2715.4
20°	2838.0	2612.7	2490.1	2454.8	2447.1	2324.5	2073.8	2112.5	2348.8	2451.5
22.5°	2652.5	2580.7	2568.5	2523.3	2188.7	2095.9	2111.4	2089.3	1857.4	1726.0
25°	2743.0	2695.5	2667.9	2269.3	2194.2	2177.6	2166.6	1956.8	1705.0	1717.1
27.5°	2871.1	2809.3	2478.0	2279.2	2293.6	2268.2	2204.1	1760.2	1752.5	1772.4
30°	3022.4	2866.7	2415.0	2396.3	2412.8	2379.7	1853.0	1835.3	1835.3	1855.2
32.5°	3207.9	2600.6	2563.0	2565.2	2554.2	2178.7	1950.1	1945.7	1959.0	1975.5
35°	3156.0	2773.9	2777.2	2796.0	2770.6	2131.2	2102.5	2086.0	2097.0	2103.6
37.5°	3054.4	3034.5	3034.5	3013.5	2365.3	2298.0	2267.1	2264.9	2263.7	2263.7
40°	3310.6	3291.8	3268.6	3232.2	2474.7	2492.3	2446.0	2440.4	2443.7	2455.9
42.5°	3602.1	3594.4	3592.2	2773.9	2702.1	2715.4	2665.7	2651.3	2651.3	2679.0
45°	3945.5	3935.6	3691.6	2965.0	2952.8	2968.3	2913.1	2878.8	2897.6	2917.5
47.5°	4339.8	4339.8	3268.6	3251.0	3251.0	3259.8	3204.6	3158.2	3177.0	3183.6
50°	4771.5	4096.8	3596.6	3580.0	3595.5	3591.1	3533.7	3103.0	3501.6	3504.9
52.5°	4891.9	3984.2	3956.6	3937.8	3956.6	3953.3	3893.6	2588.4	3787.6	3841.7
55°	4336.5	4339.8	4334.3	4306.6	4326.5	4318.8	4260.3	2825.8	2792.7	2489.0
57.5°	4688.7	4693.1	4690.9	4686.5	4704.2	3417.7	4412.7	2553.1	1559.2	1560.3
60°	5071.9	5049.8	5043.2	5033.3	4265.8	2422.8	1838.6	177.8	609.6	600.7
62.5°	5419.7	5412.0	5388.8	5383.3	3619.8	1908.2	1864.0	40.9	32.0	30.9
65°	5903.4	5835.0	5816.2	5757.7	3858.3	2031.9	1989.9	12.1	1.1	0.0
67.5°	6083.4	5944.3	5876.9	5846.0	3925.7	2095.9	2015.3	12.1	1.1	0.0
70°	5743.3	5571.0	5486.0	5451.8	3668.4	1959.0	1879.5	12.1	1.1	0.0
72.5°	5092.9	4965.9	4931.7	4822.3	3234.4	1719.3	1649.8	12.1	0.0	0.0
75°	4177.4	4131.1	4089.1	3973.2	2629.3	1366.0	1304.1	11.0	0.0	0.0
77.5°	3040.0	2971.6	2894.3	2768.4	1774.6	892.2	860.2	9.9	0.0	0.0
80°	1370.4	1314.1	1295.3	1098.7	629.4	290.4	256.2	8.8	0.0	0.0
82.5°	266.1	239.6	227.5	218.6	141.3	78.4	68.5	6.6	0.0	0.0
85°	90.5	100.5	117.1	129.2	79.5	47.5	39.8	4.4	0.0	0.0
87.5°	35.3	47.5	57.4	59.6	29.8	19.9	11.0	2.2	0.0	0.0
90°	6.6	8.8	7.7	5.5	3.3	1.1	0.0	0.0	0.0	0.0
92.5°	3.3	4.4	3.3	3.3	2.2	1.1	0.0	0.0	0.0	0.0
95°	4.4	4.4	4.4	3.3	2.2	1.1	0.0	0.0	0.0	0.0
97.5°	4.4	4.4	4.4	3.3	2.2	1.1	0.0	0.0	0.0	0.0
100°	4.4	4.4	4.4	3.3	2.2	1.1	0.0	0.0	0.0	0.0
102.5°	4.4	4.4	4.4	3.3	2.2	1.1	0.0	0.0	0.0	0.0
105°	4.4	5.5	4.4	3.3	2.2	1.1	0.0	0.0	0.0	0.0
107.5°	4.4	5.5	4.4	3.3	2.2	1.1	0.0	0.0	0.0	0.0
110°	4.4	5.5	4.4	3.3	2.2	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)