

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: P579520

Luminaire Tested: **CST-CA10-210-750-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579520
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-CA10-210-750-U-T5-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26129 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U2 - G4

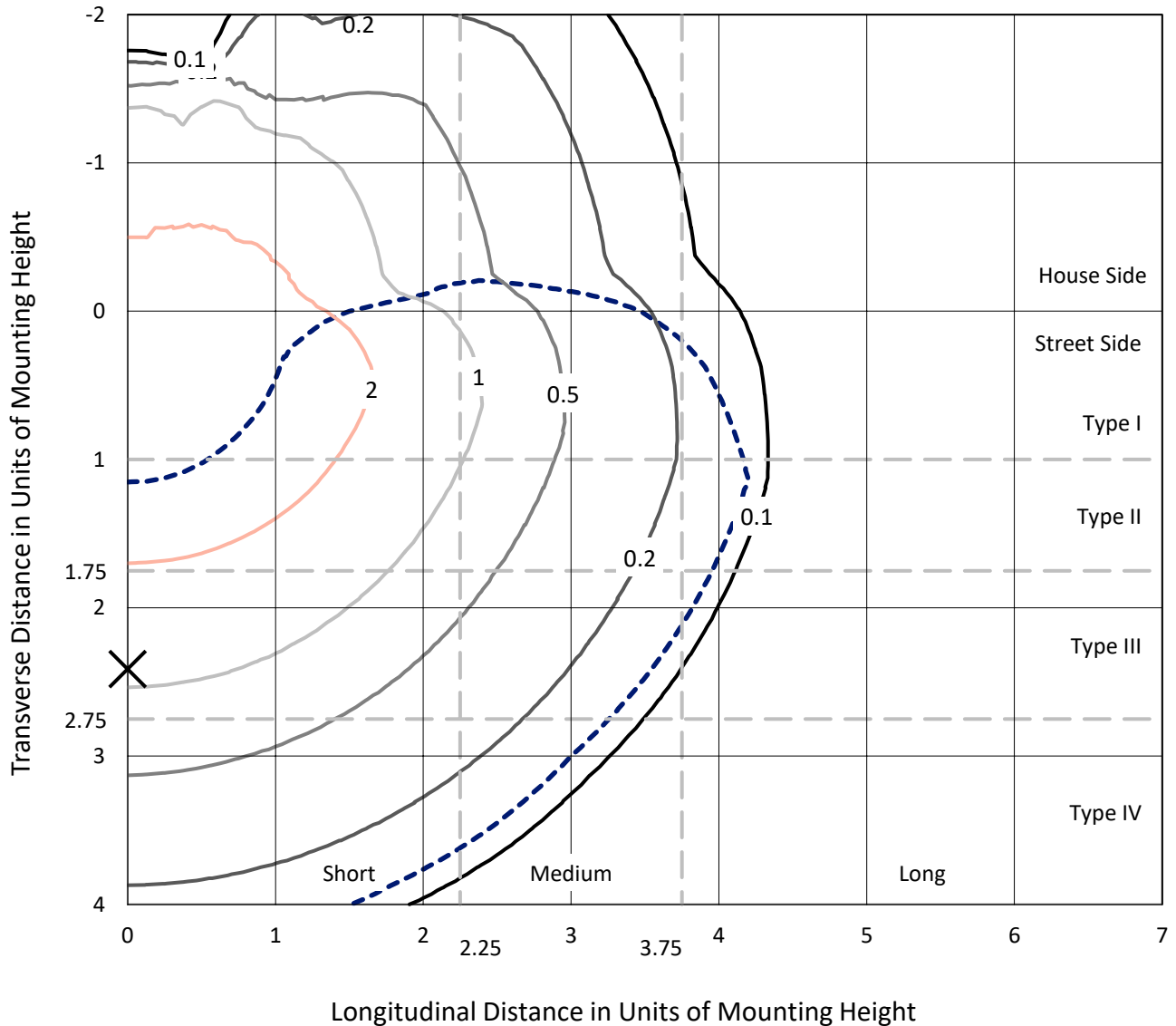
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

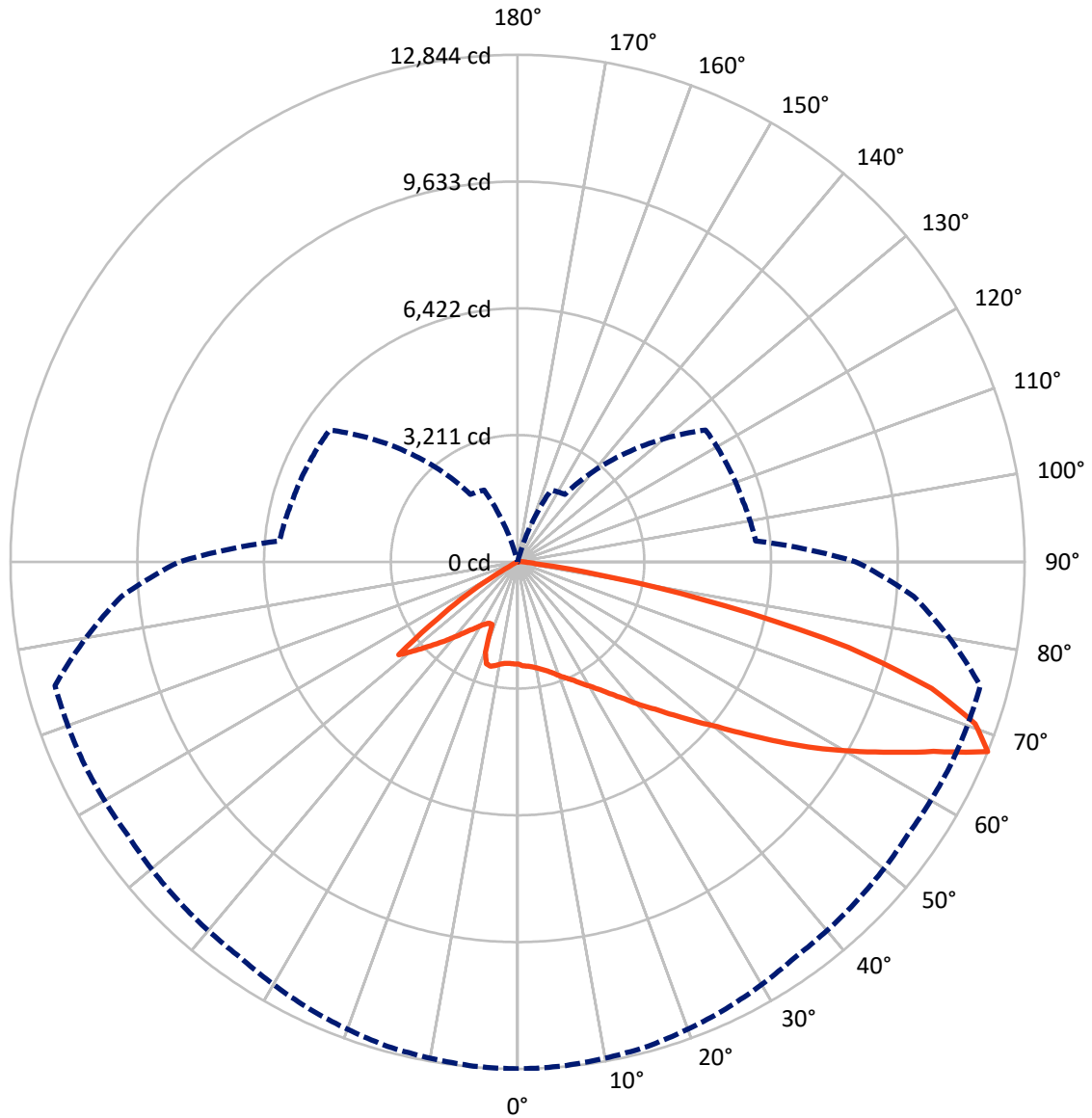
× Max cd
 - - - 1/2 Max cd



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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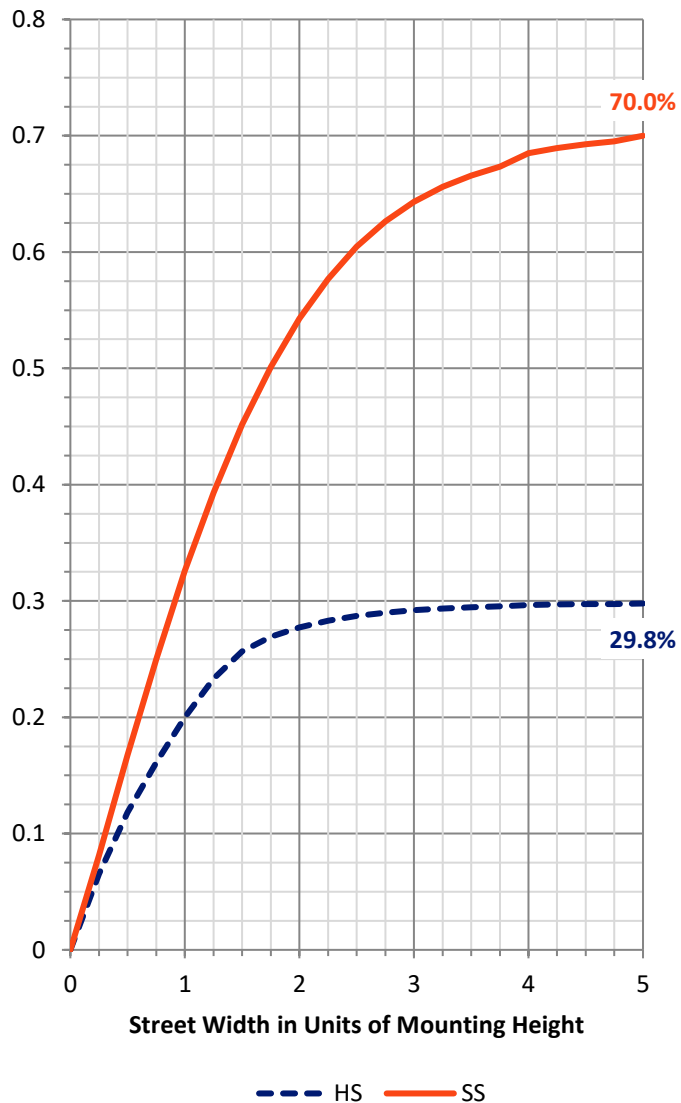
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7799.7	2.6	7802.3
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	18297.3	29.4	18326.7
	% Fixture	70.0	0.1	70.1
Total	Lumens	26097.0	32.0	26129.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.6	1.0
10°-20°	772.7	3.0
20°-30°	1296.8	5.0
30°-40°	2102.9	8.0
40°-50°	3436.3	13.2
50°-60°	5385.3	20.6
60°-70°	7212.5	27.6
70°-80°	5257.0	20.1
80°-90°	383.9	1.5
90°-100°	24.6	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°	26097.0	99.9
0°-180°	26129.0	100.0

Coefficient of Utilization



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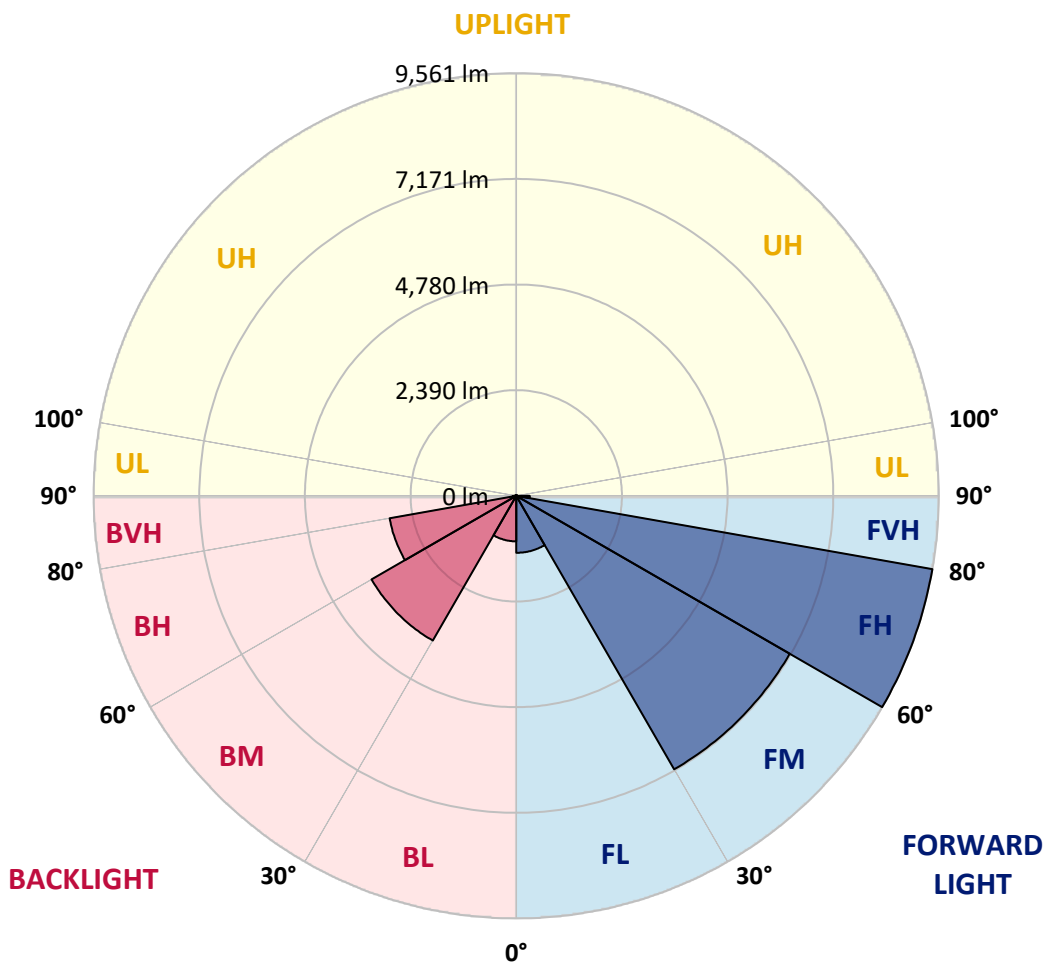
CATALOG NUMBER: CST-CA10-210-750-U-T5-HSS-HM-EX120

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1288.8	4.9			
FM (30°-60°)	7144.1	27.3			
FH (60°-80°)	9560.8	36.6			G4/12000
FVH (80°-90°)	303.6	1.2			G3/500
BL (0°-30°)	1030.3	3.9	B3/2500		
BM (30°-60°)	3780.3	14.5	B3/5000		
BH (60°-80°)	2908.7	11.1	B4/5000		G4/5000
BVH (80°-90°)	80.3	0.3			G1/100
UL (90°-100°)	24.6	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°	2589.1	2589.1	2589.1	2589.1	2589.1	2589.1	2589.1	2589.1	2589.1	2589.1	2589.1
2.5°	2638.5	2623.1	2624.2	2638.5	2595.7	2610.0	2591.3	2605.6	2595.7	2599.0	2605.6
5°	2655.0	2638.5	2639.6	2657.2	2618.7	2630.8	2605.6	2613.3	2604.5	2608.9	2608.9
7.5°	2687.9	2669.3	2668.2	2679.2	2639.6	2644.0	2620.9	2622.0	2608.9	2617.6	2613.3
10°	2737.4	2722.0	2711.0	2717.6	2682.5	2680.3	2650.6	2651.7	2635.2	2645.1	2637.4
12.5°	2797.8	2776.9	2774.7	2776.9	2738.5	2729.7	2698.9	2701.1	2671.5	2686.8	2678.1
15°	2874.7	2841.7	2841.7	2853.8	2804.4	2797.8	2760.4	2762.6	2731.9	2744.0	2735.2
17.5°	2969.2	2937.3	2931.8	2940.6	2897.8	2889.0	2850.5	2848.3	2814.3	2817.6	2809.9
20°	3091.1	3059.2	3046.0	3068.0	3014.2	3007.6	2961.5	2957.1	2920.8	2910.9	2906.5
22.5°	3204.2	3179.0	3172.4	3196.5	3140.5	3135.0	3091.1	3085.6	3051.5	3037.3	2950.5
25°	3331.6	3326.2	3324.0	3331.6	3278.9	3267.9	3233.9	3226.2	3197.6	3180.1	3074.6
27.5°	3496.4	3494.2	3487.6	3488.7	3440.4	3430.5	3398.7	3393.2	3363.5	3343.7	3208.6
30°	3668.9	3668.9	3654.6	3662.3	3638.1	3622.7	3597.5	3577.7	3559.0	3538.2	3367.9
32.5°	3867.7	3866.6	3853.4	3876.5	3858.9	3858.9	3843.5	3822.7	3789.7	3779.8	3573.3
35°	4123.6	4107.2	4101.7	4139.0	4133.5	4143.4	4137.9	4116.0	4088.5	4065.4	3815.0
37.5°	4407.0	4402.7	4419.1	4442.2	4454.3	4480.6	4464.2	4463.1	4458.7	4400.5	3750.2
40°	4756.4	4737.7	4760.8	4772.8	4764.0	4806.9	4792.6	4804.7	4837.6	4369.7	3745.8
42.5°	5104.6	5088.1	5104.6	5163.9	5150.7	5202.3	5195.7	5243.0	5261.7	4434.5	4050.0
45°	5533.0	5514.3	5527.5	5597.8	5604.4	5667.0	5701.0	5746.1	5754.9	4854.1	4416.9
47.5°	6025.1	5994.3	6019.6	6052.6	6152.5	6211.8	6244.8	6299.7	6355.7	5359.4	4834.4
50°	6567.7	6565.5	6593.0	6650.1	6764.4	6823.7	6880.8	6937.9	7030.2	5922.9	5302.3
52.5°	7257.6	7243.3	7290.5	7344.3	7445.4	7536.6	7604.7	7664.0	7762.9	6493.0	5808.7
55°	8046.3	7996.8	8086.9	8178.1	8220.9	8328.6	8375.8	8425.2	8519.7	7092.8	6104.2
57.5°	8897.6	8885.5	8948.1	8981.1	9073.3	9140.3	9165.6	9219.4	9218.3	7716.7	6607.3
60°	9735.7	9722.5	9796.1	9815.9	9889.5	9949.9	9941.1	9989.5	10007.0	8302.2	7100.5
62.5°	10617.8	10595.8	10663.9	10668.3	10624.4	10722.1	10712.2	10752.9	10737.5	8874.5	7586.0
65°	11582.2	11598.7	11620.7	11530.6	11425.2	11509.7	11507.5	11584.4	11639.4	9674.2	8236.3
67.5°	12844.4	12823.5	12710.4	12492.9	12236.9	12151.2	12060.1	12116.1	12131.5	10071.8	8569.1
70°	12299.5	12253.4	12202.9	11981.0	11672.3	11454.8	11313.1	11372.4	11435.0	9518.2	8048.5
72.5°	10971.5	10857.2	10622.2	10426.6	10248.7	10036.7	9864.2	9967.5	10104.8	8442.8	7126.9
75°	8655.9	8549.4	8378.0	8245.1	8149.5	8147.3	8139.6	8219.8	8200.1	6855.5	5794.4
77.5°	5360.5	5583.5	5741.7	5628.5	5668.1	5586.8	5765.9	5871.3	5966.9	4914.5	4128.0
80°	2474.8	2532.0	2812.1	2739.6	2681.4	2664.9	2675.9	2859.3	2913.1	2205.7	1847.6
82.5°	564.6	541.5	561.3	520.7	518.5	494.3	497.6	497.6	480.0	406.4	340.5
85°	285.6	292.2	294.4	282.3	249.4	224.1	207.6	175.8	151.6	129.6	109.8
87.5°	191.1	196.6	199.9	183.4	164.8	143.9	130.7	106.6	84.6	52.7	40.6
90°	130.7	129.6	126.3	117.5	105.5	90.1	72.5	50.5	29.7	11.0	7.7
92.5°	93.4	91.2	90.1	82.4	73.6	61.5	47.2	31.9	16.5	7.7	4.4
95°	61.5	60.4	60.4	56.0	49.4	40.6	31.9	20.9	12.1	6.6	4.4
97.5°	42.8	41.7	41.7	39.5	35.2	29.7	22.0	14.3	9.9	6.6	4.4
100°	29.7	29.7	29.7	27.5	25.3	20.9	16.5	11.0	8.8	6.6	4.4
102.5°	19.8	19.8	20.9	19.8	17.6	14.3	11.0	8.8	7.7	5.5	4.4
105°	13.2	13.2	13.2	13.2	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°	2589.1	2589.1	2589.1	2589.1	2589.1	2589.1	2589.1	2589.1	2589.1	2589.1
2.5°	2600.1	2584.7	2592.4	2577.0	2570.4	2556.1	2583.6	2585.8	2583.6	2588.0
5°	2603.4	2585.8	2594.6	2577.0	2573.7	2557.2	2584.7	2584.7	2578.1	2581.4
7.5°	2611.1	2592.4	2599.0	2578.1	2578.1	2558.3	2591.3	2589.1	2583.6	2591.3
10°	2637.4	2615.4	2615.4	2595.7	2597.9	2577.0	2617.6	2617.6	2613.3	2626.4
12.5°	2678.1	2650.6	2651.7	2624.2	2628.6	2612.2	2661.6	2663.8	2663.8	2685.8
15°	2730.8	2689.0	2693.4	2663.8	2672.6	2652.8	2696.7	2694.5	2700.0	2731.9
17.5°	2795.6	2749.5	2711.0	2614.4	2557.2	2559.4	2690.1	2750.6	2680.3	2701.1
20°	2823.1	2599.0	2477.0	2441.9	2434.2	2312.3	2062.9	2101.4	2336.4	2438.6
22.5°	2638.5	2567.1	2555.0	2510.0	2177.2	2084.9	2100.3	2078.3	1847.6	1716.9
25°	2728.6	2681.4	2653.9	2257.3	2182.7	2166.2	2155.2	1946.5	1696.0	1708.1
27.5°	2856.0	2794.5	2465.0	2267.2	2281.5	2256.3	2192.5	1751.0	1743.3	1763.0
30°	3006.5	2851.6	2402.3	2383.7	2400.1	2367.2	1843.2	1825.7	1825.7	1845.4
32.5°	3191.0	2586.9	2549.5	2551.7	2540.8	2167.3	1939.9	1935.5	1948.7	1965.2
35°	3139.4	2759.3	2762.6	2781.3	2756.1	2120.0	2091.5	2075.0	2086.0	2092.6
37.5°	3038.4	3018.6	3018.6	2997.7	2352.9	2285.9	2255.2	2253.0	2251.9	2251.9
40°	3293.2	3274.5	3251.5	3215.2	2461.7	2479.2	2433.1	2427.6	2430.9	2443.0
42.5°	3583.2	3575.5	3573.3	2759.3	2687.9	2701.1	2651.7	2637.4	2637.4	2664.9
45°	3924.8	3914.9	3672.2	2949.4	2937.3	2952.7	2897.8	2863.7	2882.4	2902.1
47.5°	4317.0	4317.0	3251.5	3233.9	3233.9	3242.7	3187.7	3141.6	3160.3	3166.9
50°	4746.5	4075.3	3577.7	3561.2	3576.6	3572.2	3515.1	3086.7	3483.2	3486.5
52.5°	4866.2	3963.3	3935.8	3917.1	3935.8	3932.5	3873.2	2574.8	3767.7	3821.6
55°	4313.7	4317.0	4311.5	4284.0	4303.8	4296.1	4237.9	2811.0	2778.0	2475.9
57.5°	4664.1	4668.5	4666.3	4661.9	4679.5	3399.8	4389.5	2539.7	1551.0	1552.1
60°	5045.3	5023.3	5016.7	5006.8	4243.4	2410.0	1828.9	176.9	606.4	597.6
62.5°	5391.3	5383.6	5360.5	5355.0	3600.8	1898.2	1854.2	40.6	31.9	30.8
65°	5872.4	5804.3	5785.6	5727.4	3838.0	2021.2	1979.4	12.1	1.1	0.0
67.5°	6051.5	5913.0	5846.0	5815.3	3905.0	2084.9	2004.7	12.1	1.1	0.0
70°	5713.1	5541.8	5457.2	5423.1	3649.1	1948.7	1869.6	12.1	1.1	0.0
72.5°	5066.1	4939.8	4905.8	4797.0	3217.4	1710.3	1641.1	12.1	0.0	0.0
75°	4155.5	4109.4	4067.6	3952.3	2615.4	1358.8	1297.3	11.0	0.0	0.0
77.5°	3024.1	2956.0	2879.1	2753.9	1765.2	887.6	855.7	9.9	0.0	0.0
80°	1363.2	1307.2	1288.5	1093.0	626.1	288.9	254.8	8.8	0.0	0.0
82.5°	264.7	238.4	226.3	217.5	140.6	78.0	68.1	6.6	0.0	0.0
85°	90.1	100.0	116.4	128.5	79.1	47.2	39.5	4.4	0.0	0.0
87.5°	35.2	47.2	57.1	59.3	29.7	19.8	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)