

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: P579546

Luminaire Tested: **CST-CA6-230-750-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579546
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-CA6-230-750-U-T5-HSS-HM-EX90
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (6) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28326 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U2 - G4

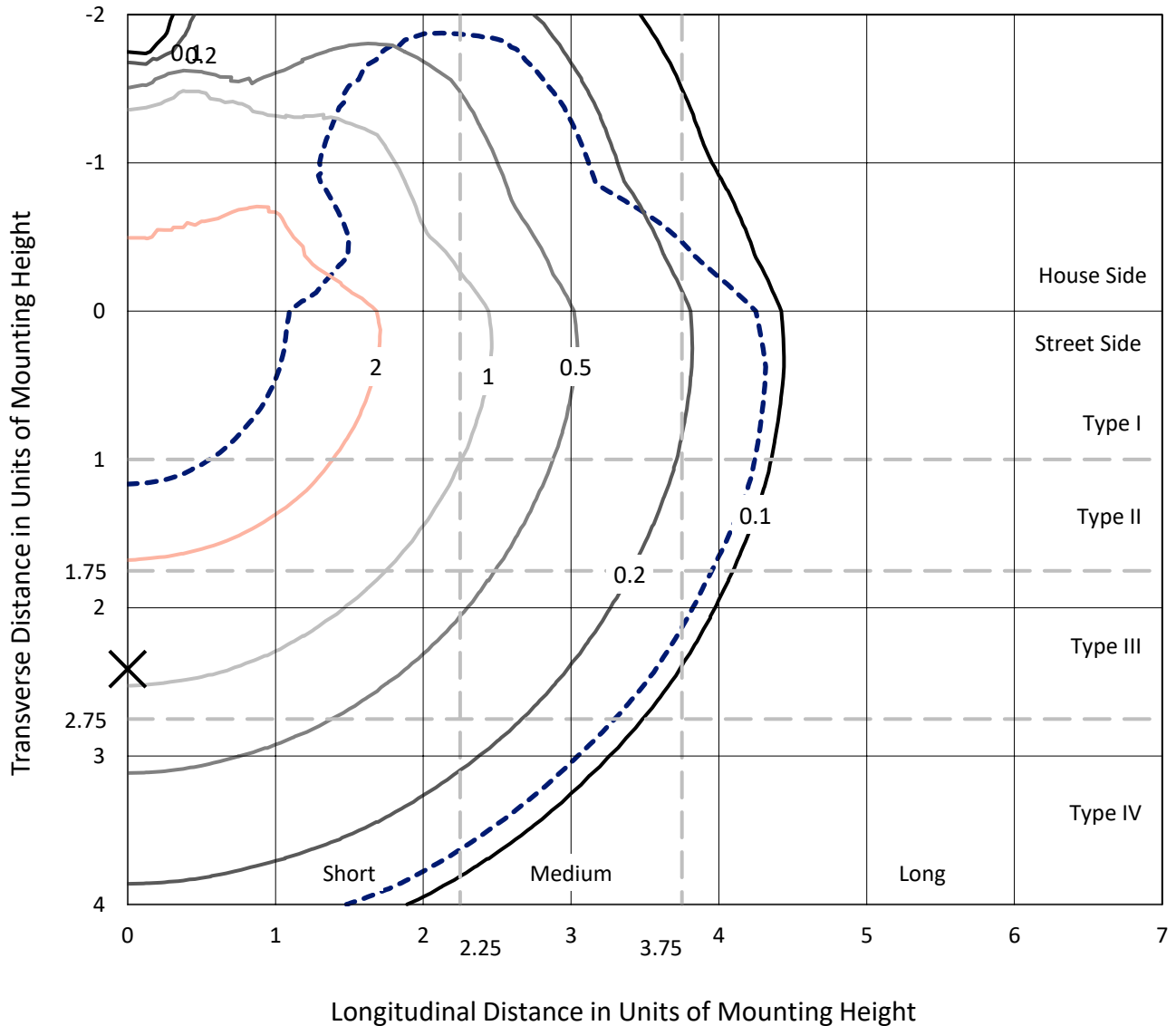
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

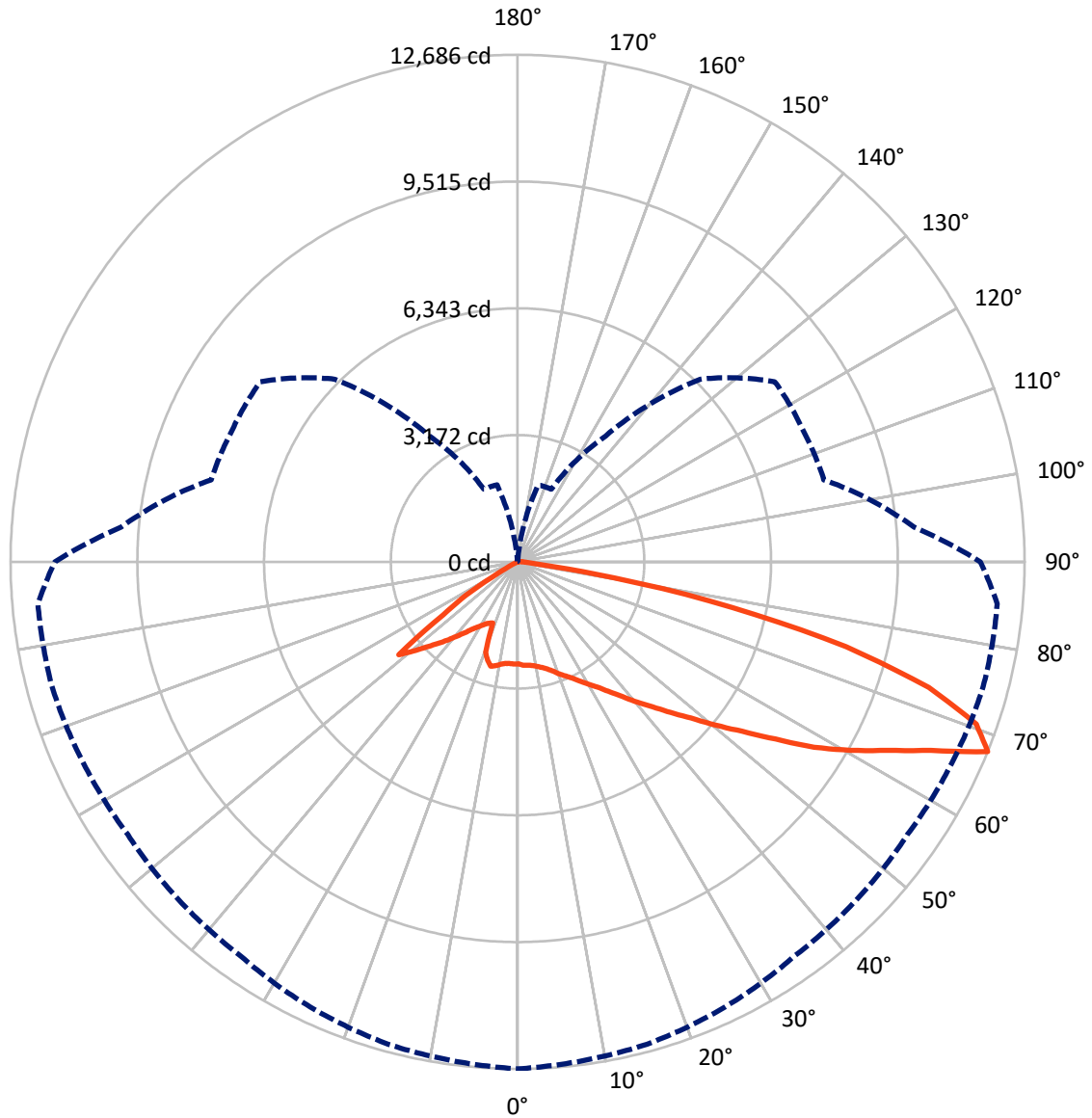
× Max cd
 - - - 1/2 Max cd



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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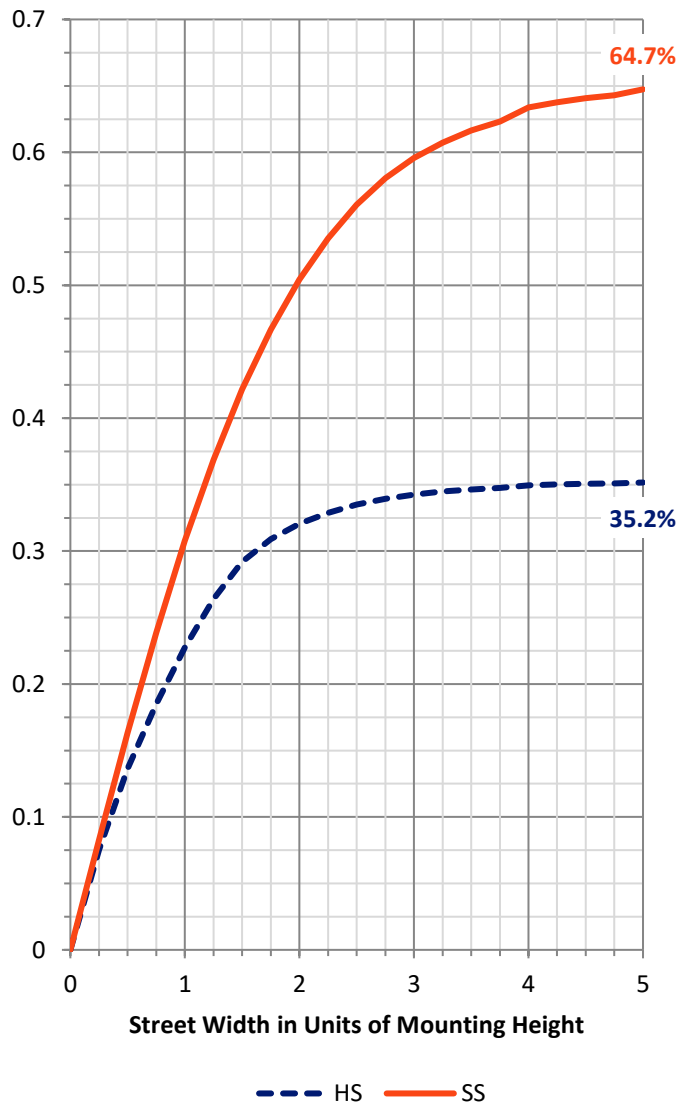
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9970.7	0.6	9971.3
	% Fixture	35.2	0.0	35.2
Street Side	Lumens	18334.7	20.0	18354.7
	% Fixture	64.7	0.1	64.8
Total	Lumens	28305.4	20.6	28326.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.6	0.9
10°-20°	762.9	2.7
20°-30°	1322.7	4.7
30°-40°	2170.3	7.7
40°-50°	3620.1	12.8
50°-60°	5858.6	20.7
60°-70°	8086.8	28.5
70°-80°	5834.3	20.6
80°-90°	404.4	1.4
90°-100°	17.5	0.1
100°-110°	2.9	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°	28305.4	99.9
0°-180°	28326.0	100.0

Coefficient of Utilization

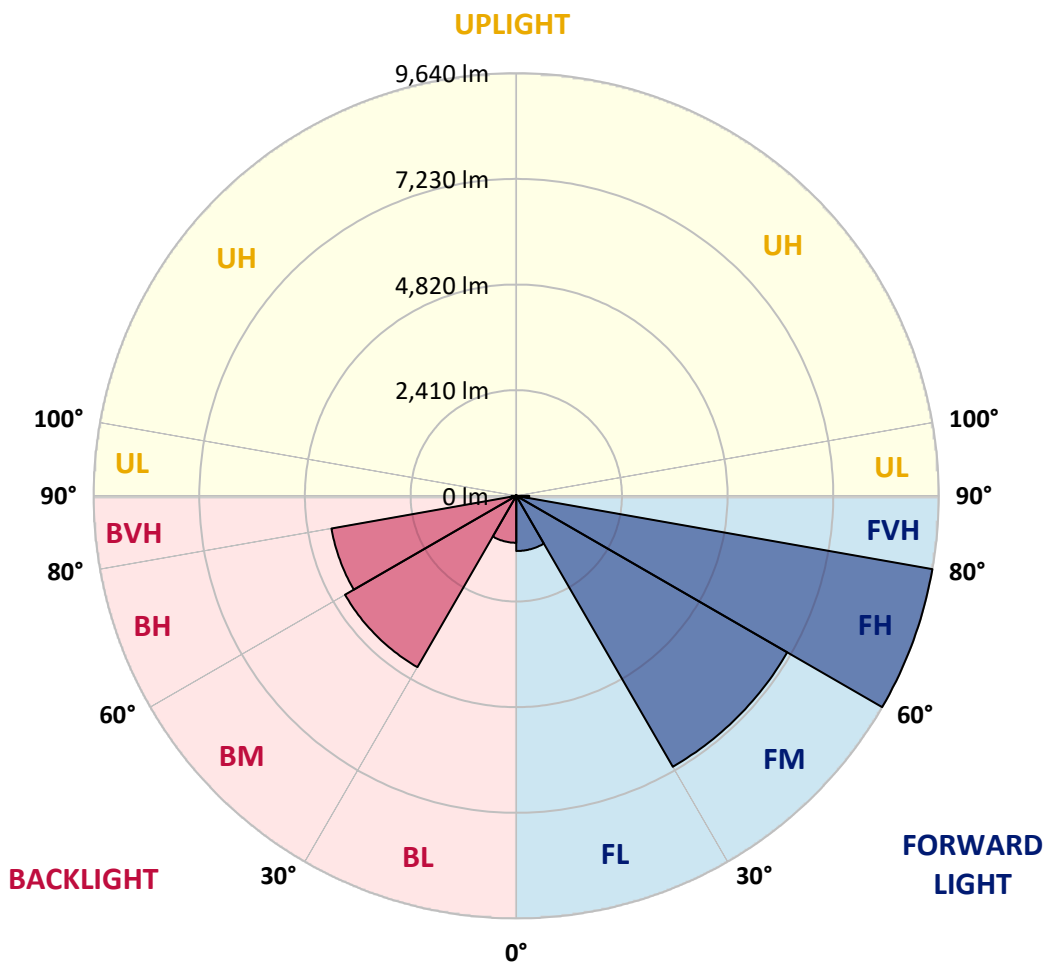


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1259.6	4.4			
FM	(30°-60°)	7137.4	25.2			
FH	(60°-80°)	9639.7	34.0			G4/12000
FVH	(80°-90°)	298.0	1.1			G3/500
BL	(0°-30°)	1071.5	3.8	B3/2500		
BM	(30°-60°)	4511.5	15.9	B3/5000		
BH	(60°-80°)	4281.3	15.1	B4/5000		G4/5000
BVH	(80°-90°)	106.4	0.4			G2/225
UL	(90°-100°)	17.5	0.1		U2/50	
UH	(100°-180°)	3.1	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°	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7
2.5°	2591.7	2576.5	2577.6	2592.8	2551.6	2566.8	2549.4	2564.6	2557.0	2562.4	2568.9
5°	2599.3	2580.9	2583.0	2601.5	2568.9	2580.9	2560.3	2568.9	2562.4	2568.9	2570.0
7.5°	2618.8	2600.4	2601.5	2615.6	2581.9	2590.6	2571.1	2575.4	2564.6	2576.5	2573.3
10°	2660.0	2642.7	2636.2	2648.1	2618.8	2619.9	2597.1	2601.5	2585.2	2601.5	2595.0
12.5°	2715.3	2691.5	2693.6	2700.1	2664.4	2666.5	2639.4	2645.9	2618.8	2641.6	2634.0
15°	2782.6	2753.3	2756.5	2767.4	2732.7	2729.4	2704.5	2704.5	2680.6	2698.0	2690.4
17.5°	2875.8	2843.3	2841.1	2848.7	2820.5	2820.5	2792.3	2789.1	2765.2	2779.3	2777.1
20°	2997.3	2960.4	2953.9	2968.0	2932.2	2936.5	2900.8	2897.5	2871.5	2880.2	2881.2
22.5°	3106.8	3077.5	3076.4	3098.1	3055.8	3061.2	3028.7	3020.0	2998.4	3010.3	3013.5
25°	3232.6	3228.2	3225.0	3232.6	3190.3	3190.3	3167.5	3159.9	3145.8	3154.5	3163.2
27.5°	3390.9	3388.7	3380.1	3381.1	3345.4	3350.8	3325.8	3321.5	3315.0	3313.9	3309.6
30°	3565.5	3555.7	3543.8	3551.4	3535.1	3540.6	3518.9	3504.8	3502.6	3503.7	3497.2
32.5°	3759.6	3746.6	3739.0	3752.0	3758.5	3773.7	3772.6	3733.6	3733.6	3749.8	3720.6
35°	4000.3	3979.7	3986.2	4003.6	4016.6	4055.6	4049.1	4022.0	4030.7	4038.3	4003.6
37.5°	4283.4	4269.3	4298.5	4331.1	4332.2	4387.5	4374.5	4381.0	4379.9	4370.1	4347.3
40°	4622.8	4600.0	4630.4	4655.3	4640.1	4706.3	4704.1	4733.4	4752.9	4786.5	4773.5
42.5°	4960.0	4942.7	4972.0	5026.2	5017.5	5093.4	5104.3	5149.8	5176.9	5229.0	5198.6
45°	5375.4	5365.6	5392.7	5435.0	5464.3	5565.1	5605.2	5624.8	5693.1	5756.0	5685.5
47.5°	5840.6	5853.6	5849.2	5926.2	5991.3	6113.8	6130.1	6193.0	6252.6	6322.0	6253.7
50°	6419.6	6397.9	6417.5	6491.2	6597.5	6686.4	6769.9	6859.9	6918.4	6990.0	6864.2
52.5°	7043.2	7061.6	7105.0	7218.8	7296.9	7402.1	7478.0	7585.3	7642.8	7704.6	7540.9
55°	7829.3	7844.5	7892.2	8009.3	8064.7	8183.9	8236.0	8343.3	8398.6	8425.8	8216.5
57.5°	8751.1	8700.1	8739.1	8799.9	8885.5	9014.6	9028.7	9129.5	9129.5	9164.2	8897.5
60°	9574.1	9539.4	9580.6	9667.4	9701.0	9818.1	9806.2	9888.6	9910.3	9884.3	9565.5
62.5°	10385.3	10391.8	10444.9	10473.1	10460.1	10529.5	10557.7	10644.4	10608.6	10617.3	10249.7
65°	11369.9	11385.1	11379.7	11327.6	11210.5	11347.1	11339.5	11477.2	11485.9	11564.0	11136.7
67.5°	12686.3	12619.1	12496.6	12287.3	12055.2	11975.0	11904.5	11972.8	12060.7	12046.6	11578.1
70°	12174.5	12065.0	12001.0	11818.8	11508.7	11348.2	11201.8	11213.7	11341.7	11353.6	10874.3
72.5°	10762.6	10707.3	10461.2	10301.8	10089.2	9965.6	9788.8	9829.0	9996.0	10024.2	9642.4
75°	8489.7	8438.8	8216.5	8164.4	8059.2	8120.0	8076.6	8092.8	8227.3	8103.7	7874.9
77.5°	5494.6	5506.6	5471.9	5590.1	5585.7	5589.0	5747.3	5763.6	5894.8	5818.9	5597.7
80°	2463.7	2499.5	2584.1	2755.5	2651.3	2707.7	2768.5	2750.0	2882.3	2583.0	2690.4
82.5°	498.8	516.2	486.9	508.6	475.0	492.3	517.3	479.3	475.0	440.3	408.8
85°	257.0	260.3	259.2	253.7	223.4	206.0	198.4	167.0	150.7	147.5	136.6
87.5°	167.0	169.2	163.7	162.7	143.1	131.2	117.1	98.7	82.4	57.5	47.7
90°	101.9	101.9	96.5	91.1	81.3	72.7	58.6	42.3	24.9	9.8	5.4
92.5°	68.3	68.3	66.1	62.9	56.4	48.8	38.0	24.9	11.9	4.3	2.2
95°	43.4	43.4	42.3	41.2	36.9	31.4	23.9	15.2	7.6	3.3	1.1
97.5°	28.2	28.2	28.2	27.1	24.9	21.7	16.3	9.8	5.4	2.2	1.1
100°	17.4	18.4	17.4	17.4	16.3	14.1	10.8	6.5	4.3	2.2	1.1
102.5°	9.8	9.8	10.8	10.8	9.8	8.7	6.5	5.4	3.3	2.2	1.1
105°	4.3	4.3	5.4	5.4	5.4	4.3	4.3	3.3	2.2	2.2	1.1
107.5°	1.1	1.1	1.1	2.2	3.3	3.3	3.3	3.3	2.2	1.1	1.1
110°	0.0	0.0	0.0	1.1	1.1	2.2	2.2	2.2	2.2	1.1	1.1



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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°	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7
2.5°	2562.4	2549.4	2559.2	2542.9	2538.6	2524.5	2551.6	2555.9	2553.8	2558.1
5°	2564.6	2548.3	2560.3	2544.0	2542.9	2527.7	2555.9	2557.0	2549.4	2552.7
7.5°	2571.1	2555.9	2564.6	2546.2	2548.3	2529.9	2562.4	2561.3	2557.0	2564.6
10°	2595.0	2577.6	2580.9	2561.3	2566.8	2547.2	2587.4	2589.5	2585.2	2599.3
12.5°	2636.2	2612.3	2619.9	2597.1	2601.5	2581.9	2630.7	2634.0	2634.0	2656.8
15°	2692.6	2667.6	2683.9	2654.6	2655.7	2626.4	2663.3	2663.3	2667.6	2699.1
17.5°	2775.0	2744.6	2766.3	2739.2	2570.0	2506.0	2631.8	2708.8	2580.9	2570.0
20°	2876.9	2862.8	2874.7	2830.3	2555.9	2263.1	2035.4	2023.5	2276.1	2401.9
22.5°	3001.6	2987.5	2992.9	2936.5	2281.6	2075.5	2072.3	2050.6	1735.0	1648.3
25°	3148.0	3140.4	3128.5	2655.7	2358.6	2161.2	2135.2	1852.1	1671.1	1687.3
27.5°	3305.2	3282.5	2880.2	2758.7	2476.8	2246.9	2099.4	1729.6	1723.1	1738.3
30°	3480.9	3360.5	2948.5	2907.3	2614.5	2353.1	1827.2	1805.5	1805.5	1829.4
32.5°	3704.3	3138.2	3138.2	3116.6	2784.7	2065.8	1923.7	1910.7	1925.9	1935.6
35°	3670.7	3375.7	3410.4	3400.7	3015.7	2103.7	2078.8	2057.1	2060.4	2060.4
37.5°	3681.5	3693.5	3734.7	3692.4	2630.7	2268.6	2228.4	2224.1	2227.3	2234.9
40°	4022.0	4028.5	4043.7	3950.5	2827.0	2460.5	2405.2	2394.3	2405.2	2421.5
42.5°	4388.6	4407.0	4424.3	3592.6	3101.4	2678.5	2623.2	2602.6	2622.1	2639.4
45°	4822.3	4850.5	4584.8	3910.3	3411.5	2926.8	2868.2	2843.3	2855.2	2870.4
47.5°	5310.3	5354.7	4323.5	4314.8	3775.9	3220.7	3153.4	3105.7	3124.1	3123.1
50°	5861.2	5117.3	4776.8	4771.3	4182.5	3548.1	3478.7	3435.4	3449.5	3438.6
52.5°	6456.5	5257.2	5268.0	5266.9	4607.6	3900.6	3836.6	3782.4	3670.7	3773.7
55°	7065.9	5740.8	5782.0	5775.5	5053.3	4264.9	4196.6	4145.6	2708.8	2288.1
57.5°	7672.1	6246.1	6259.1	6274.3	5515.2	4616.3	4315.9	3964.6	1545.3	1537.7
60°	8270.7	6727.6	6753.6	6762.3	5764.6	3821.4	1764.3	1796.8	467.4	558.5
62.5°	8891.0	7202.6	7226.4	7218.8	6013.0	3553.6	1853.2	1816.4	43.4	40.1
65°	9682.6	7797.9	7764.3	7739.3	6404.4	3792.1	1991.0	1981.2	14.1	9.8
67.5°	9960.2	7933.4	7865.1	7856.4	6460.8	3843.1	2001.8	1994.2	14.1	9.8
70°	9331.2	7418.4	7301.2	7304.5	6011.9	3594.8	1867.3	1856.5	13.0	9.8
72.5°	8172.0	6551.9	6503.1	6245.0	5206.2	3162.1	1655.9	1614.7	13.0	8.7
75°	6709.2	5292.9	5184.5	4895.0	4143.5	2513.6	1300.2	1247.1	11.9	7.6
77.5°	4657.5	3711.9	3504.8	3209.8	2771.7	1666.7	874.0	805.7	10.8	7.6
80°	2111.3	1523.6	1531.2	1173.3	940.2	565.0	277.6	251.6	9.8	6.5
82.5°	367.6	271.1	254.8	246.2	205.0	138.8	84.6	72.7	8.7	4.3
85°	128.0	103.0	113.9	134.5	119.3	83.5	52.1	49.9	5.4	2.2
87.5°	43.4	45.5	53.1	64.0	56.4	32.5	19.5	14.1	1.1	0.0
90°	4.3	5.4	5.4	5.4	3.3	0.0	0.0	0.0	0.0	0.0
92.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	1.1	1.1	1.1	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)