

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: P579592

Luminaire Tested: **CST-CA6-230-760-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579592
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-CA6-230-760-U-T5-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: 25247 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U2 - G4

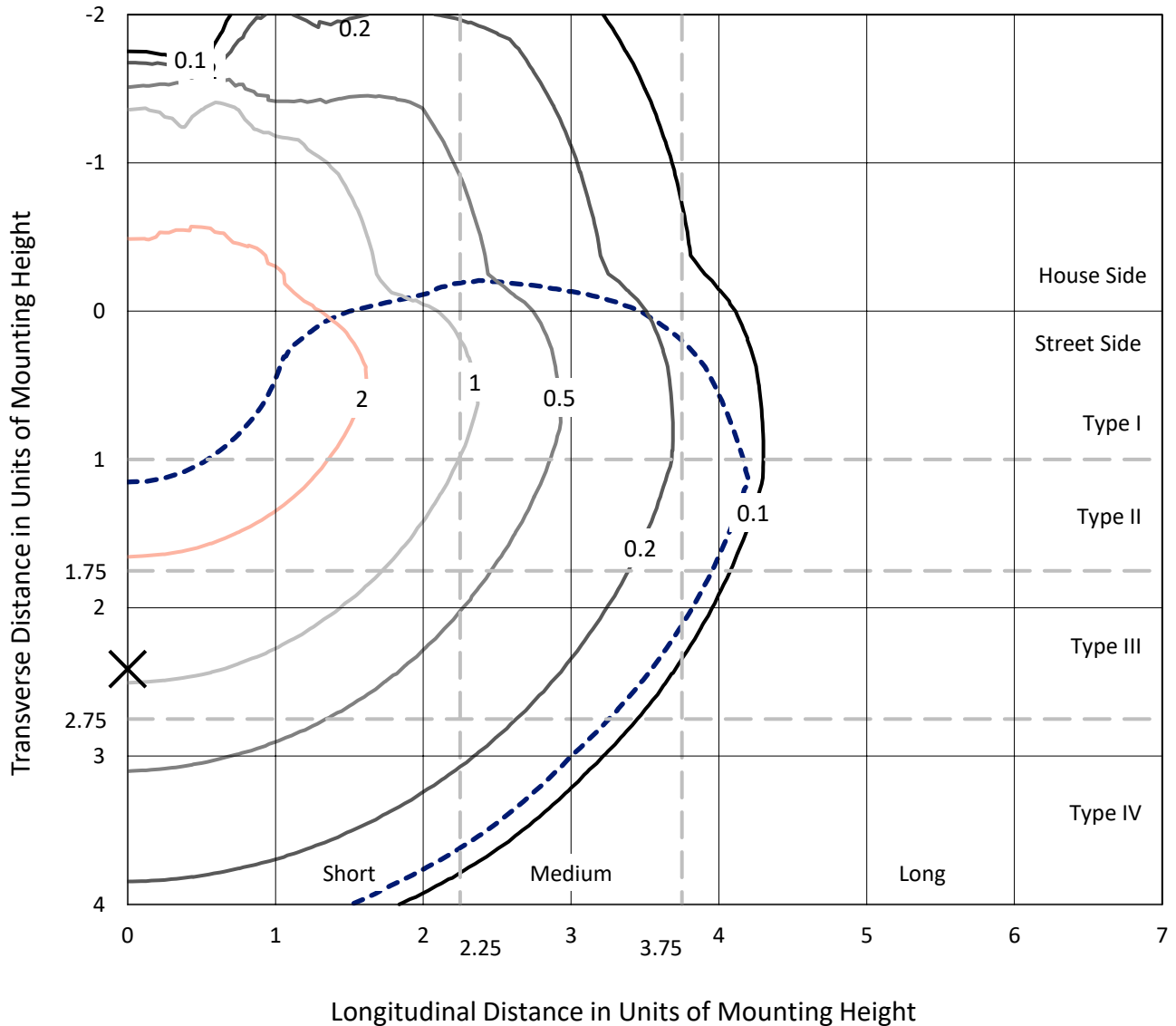
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

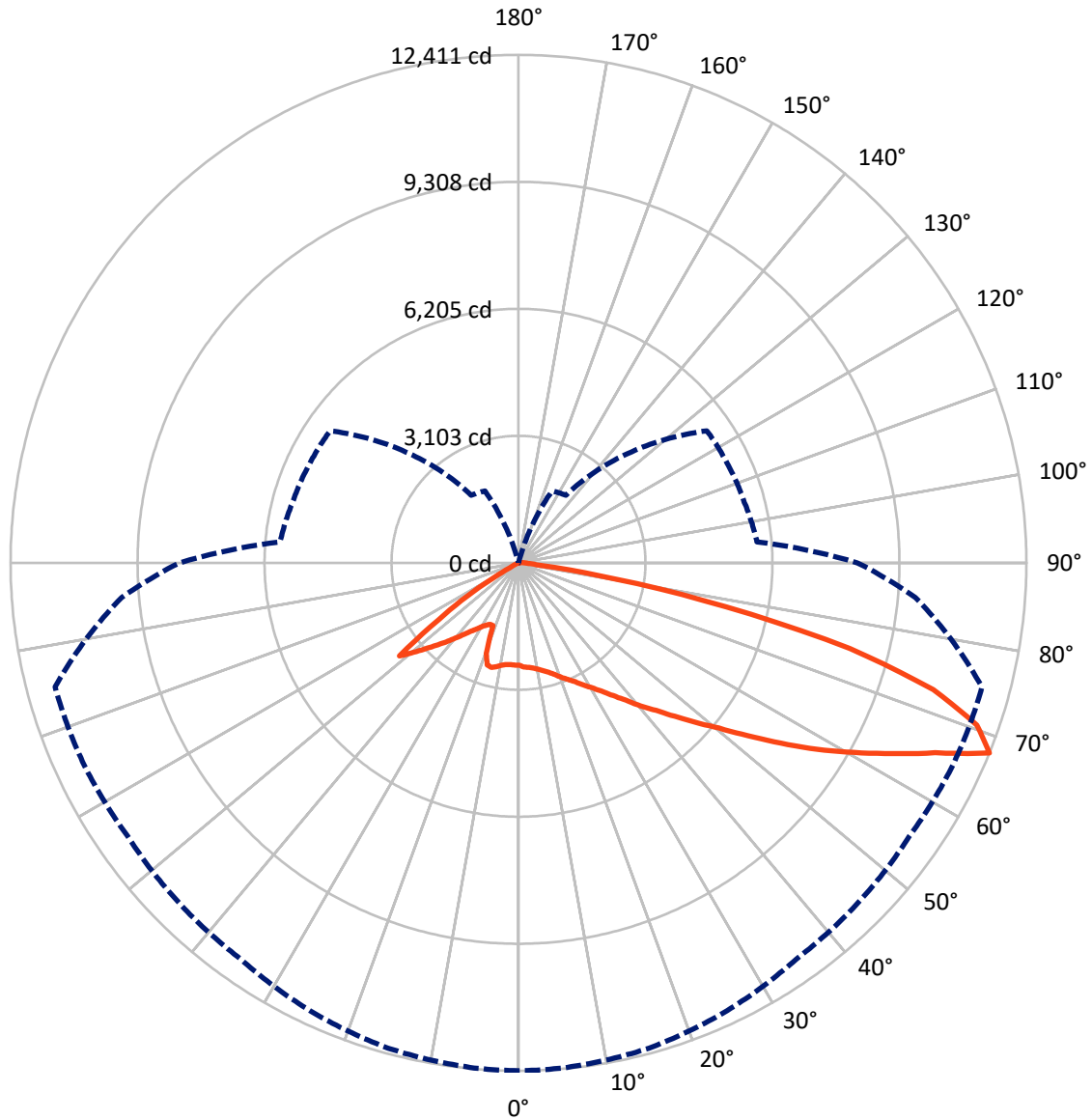
× Max cd
 - - - 1/2 Max cd



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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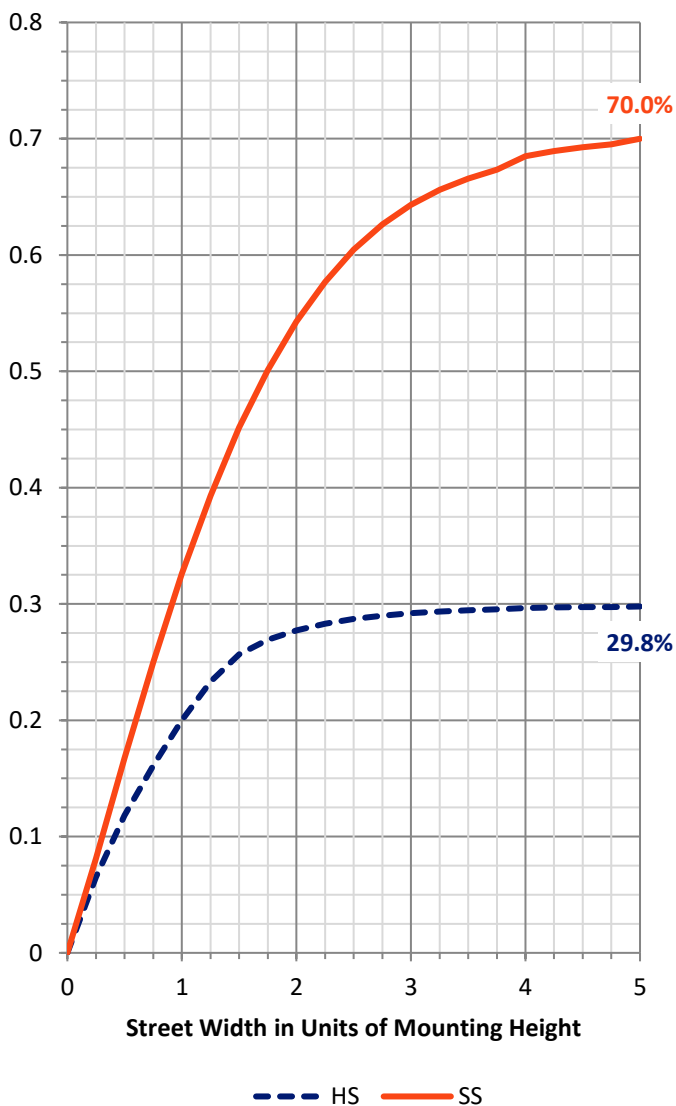
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7536.4	2.5	7538.9
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	17679.7	28.4	17708.1
	% Fixture	70.0	0.1	70.1
Total	Lumens	25216.0	30.9	25247.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.2	1.0
10°-20°	746.7	3.0
20°-30°	1253.0	5.0
30°-40°	2031.9	8.0
40°-50°	3320.3	13.2
50°-60°	5203.5	20.6
60°-70°	6969.1	27.6
70°-80°	5079.5	20.1
80°-90°	370.9	1.5
90°-100°	23.7	0.1
100°-110°	6.7	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°	25216.0	99.9
0°-180°	25247.0	100.0

Coefficient of Utilization



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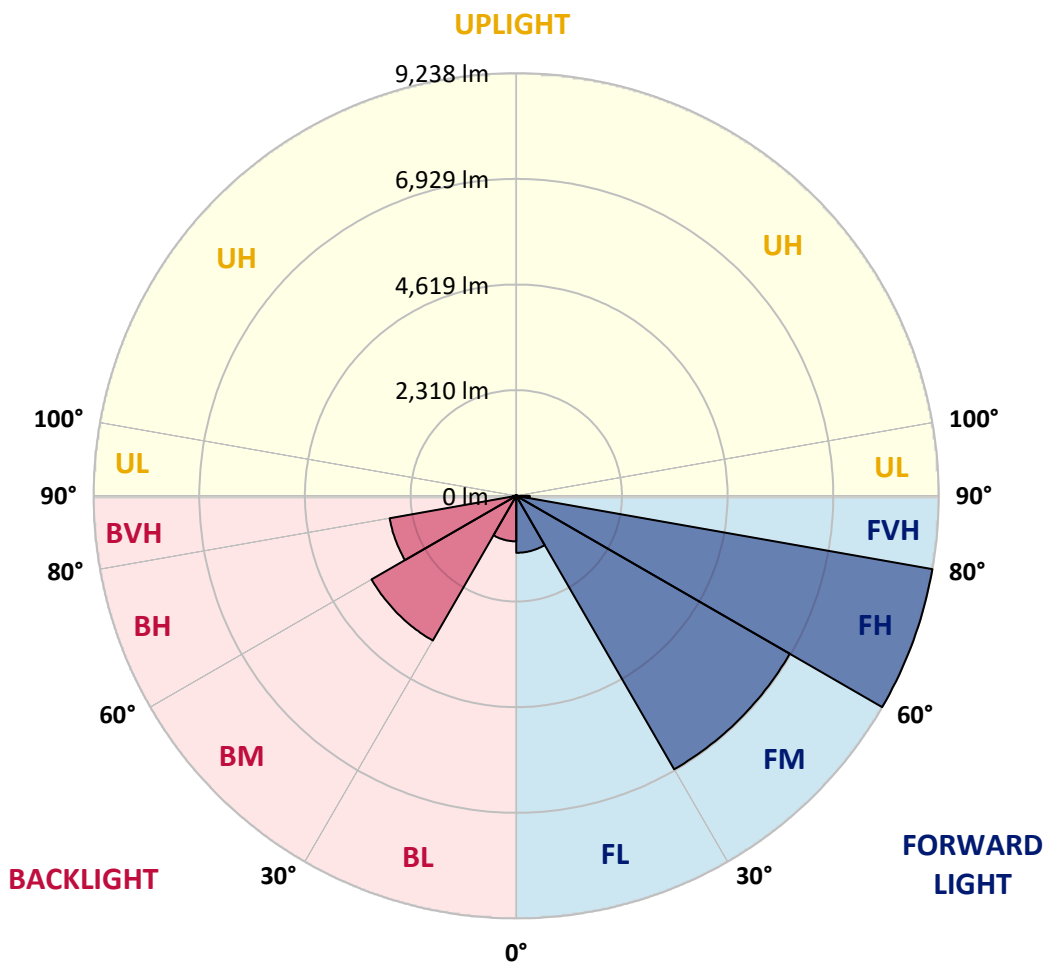
CATALOG NUMBER: CST-CA6-230-760-U-T5-HSS-HM-EX120

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1245.3	4.9			
FM (30°-60°)	6903.0	27.3			
FH (60°-80°)	9238.0	36.6			G4/12000
FVH (80°-90°)	293.3	1.2			G3/500
BL (0°-30°)	995.6	3.9	B2/1000		
BM (30°-60°)	3652.7	14.5	B3/5000		
BH (60°-80°)	2810.5	11.1	B4/5000		G4/5000
BVH (80°-90°)	77.6	0.3			G1/100
UL (90°-100°)	23.7	0.1		U2/50	
UH (100°-180°)	7.2	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°	2501.7	2501.7	2501.7	2501.7	2501.7	2501.7	2501.7	2501.7	2501.7	2501.7	2501.7
2.5°	2549.5	2534.6	2535.7	2549.5	2508.1	2521.9	2503.8	2517.6	2508.1	2511.2	2517.6
5°	2565.4	2549.5	2550.5	2567.5	2530.3	2542.0	2517.6	2525.0	2516.5	2520.8	2520.8
7.5°	2597.2	2579.2	2578.1	2588.7	2550.5	2554.8	2532.5	2533.5	2520.8	2529.3	2525.0
10°	2645.0	2630.1	2619.5	2625.9	2591.9	2589.8	2561.1	2562.2	2546.3	2555.8	2548.4
12.5°	2703.4	2683.2	2681.1	2683.2	2646.0	2637.5	2607.8	2610.0	2581.3	2596.2	2587.7
15°	2777.7	2745.8	2745.8	2757.5	2709.7	2703.4	2667.3	2669.4	2639.7	2651.3	2642.9
17.5°	2868.9	2838.1	2832.8	2841.3	2799.9	2791.4	2754.3	2752.2	2719.3	2722.5	2715.0
20°	2986.7	2956.0	2943.2	2964.5	2912.4	2906.1	2861.5	2857.3	2822.2	2812.7	2808.4
22.5°	3096.1	3071.7	3065.3	3088.6	3034.5	3029.2	2986.7	2981.4	2948.5	2934.7	2850.9
25°	3219.2	3213.9	3211.8	3219.2	3168.2	3157.6	3124.7	3117.3	3089.7	3072.7	2970.8
27.5°	3378.4	3376.3	3369.9	3371.0	3324.3	3314.7	3283.9	3278.6	3250.0	3230.9	3100.3
30°	3545.0	3545.0	3531.2	3538.7	3515.3	3500.5	3476.0	3456.9	3438.9	3418.7	3254.2
32.5°	3737.1	3736.1	3723.3	3745.6	3728.7	3728.7	3713.8	3693.6	3661.8	3652.2	3452.7
35°	3984.4	3968.5	3963.2	3999.3	3994.0	4003.6	3998.2	3977.0	3950.5	3928.2	3686.2
37.5°	4258.3	4254.0	4270.0	4292.2	4303.9	4329.4	4313.5	4312.4	4308.2	4251.9	3623.6
40°	4595.8	4577.8	4600.1	4611.7	4603.2	4644.6	4630.8	4642.5	4674.3	4222.2	3619.3
42.5°	4932.3	4916.3	4932.3	4989.6	4976.8	5026.7	5020.4	5066.0	5084.0	4284.8	3913.3
45°	5346.2	5328.2	5340.9	5408.8	5415.2	5475.7	5508.6	5552.1	5560.6	4690.3	4267.8
47.5°	5821.7	5792.0	5816.4	5848.2	5944.8	6002.1	6034.0	6087.1	6141.2	5178.5	4671.2
50°	6346.0	6343.9	6370.4	6425.6	6536.0	6593.3	6648.5	6703.7	6792.9	5723.0	5123.3
52.5°	7012.6	6998.8	7044.4	7096.4	7194.1	7282.2	7348.0	7405.3	7500.8	6273.9	5612.6
55°	7774.7	7726.9	7813.9	7902.0	7943.4	8047.4	8093.1	8140.8	8232.1	6853.4	5898.1
57.5°	8597.2	8585.6	8646.1	8677.9	8767.1	8831.8	8856.2	8908.2	8907.2	7456.2	6384.2
60°	9407.1	9394.3	9465.5	9484.6	9555.7	9614.0	9605.6	9652.3	9669.2	8022.0	6860.8
62.5°	10259.4	10238.1	10303.9	10308.2	10265.7	10360.2	10350.6	10389.9	10375.1	8574.9	7329.9
65°	11191.3	11207.2	11228.4	11141.4	11039.5	11121.2	11119.1	11193.4	11246.5	9347.6	7958.3
67.5°	12410.8	12390.6	12281.3	12071.2	11823.9	11741.1	11653.0	11707.1	11722.0	9731.9	8279.9
70°	11884.4	11839.8	11790.9	11576.5	11278.3	11068.1	10931.2	10988.5	11049.0	9196.9	7776.8
72.5°	10601.1	10490.8	10263.6	10074.7	9902.7	9697.9	9531.3	9631.0	9763.7	8157.8	6886.3
75°	8363.7	8260.8	8095.2	7966.8	7874.4	7872.3	7864.9	7942.4	7923.3	6624.1	5598.8
77.5°	5179.6	5395.0	5547.9	5438.5	5476.8	5398.2	5571.2	5673.1	5765.5	4748.6	3988.7
80°	2391.3	2446.5	2717.2	2647.1	2590.8	2574.9	2585.5	2762.8	2814.8	2131.3	1785.3
82.5°	545.6	523.3	542.4	503.1	501.0	477.6	480.8	480.8	463.8	392.7	329.0
85°	276.0	282.3	284.5	272.8	240.9	216.5	200.6	169.8	146.5	125.2	106.1
87.5°	184.7	190.0	193.2	177.3	159.2	139.0	126.3	103.0	81.7	50.9	39.3
90°	126.3	125.2	122.1	113.6	101.9	87.0	70.1	48.8	28.7	10.6	7.4
92.5°	90.2	88.1	87.0	79.6	71.1	59.4	45.6	30.8	15.9	7.4	4.2
95°	59.4	58.4	58.4	54.1	47.8	39.3	30.8	20.2	11.7	6.4	4.2
97.5°	41.4	40.3	40.3	38.2	34.0	28.7	21.2	13.8	9.6	6.4	4.2
100°	28.7	28.7	28.7	26.5	24.4	20.2	15.9	10.6	8.5	6.4	4.2
102.5°	19.1	19.1	20.2	19.1	17.0	13.8	10.6	8.5	7.4	5.3	4.2
105°	12.7	12.7	12.7	12.7	11.7	9.6	8.5	7.4	6.4	5.3	4.2
107.5°	8.5	8.5	8.5	8.5	7.4	6.4	6.4	6.4	5.3	5.3	4.2
110°	5.3	5.3	5.3	6.4	5.3	5.3	5.3	5.3	5.3	4.2	4.2



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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°	2501.7	2501.7	2501.7	2501.7	2501.7	2501.7	2501.7	2501.7	2501.7	2501.7
2.5°	2512.3	2497.4	2504.9	2490.0	2483.6	2469.8	2496.4	2498.5	2496.4	2500.6
5°	2515.5	2498.5	2507.0	2490.0	2486.8	2470.9	2497.4	2497.4	2491.1	2494.3
7.5°	2522.9	2504.9	2511.2	2491.1	2491.1	2472.0	2503.8	2501.7	2496.4	2503.8
10°	2548.4	2527.2	2527.2	2508.1	2510.2	2490.0	2529.3	2529.3	2525.0	2537.8
12.5°	2587.7	2561.1	2562.2	2535.7	2539.9	2524.0	2571.7	2573.9	2573.9	2595.1
15°	2638.6	2598.3	2602.5	2573.9	2582.4	2563.2	2605.7	2603.6	2608.9	2639.7
17.5°	2701.2	2656.7	2619.5	2526.1	2470.9	2473.0	2599.3	2657.7	2589.8	2610.0
20°	2727.8	2511.2	2393.4	2359.5	2352.0	2234.2	1993.3	2030.4	2257.6	2356.3
22.5°	2549.5	2480.5	2468.8	2425.3	2103.7	2014.5	2029.4	2008.1	1785.3	1658.9
25°	2636.5	2590.8	2564.3	2181.2	2109.0	2093.1	2082.4	1880.8	1638.8	1650.5
27.5°	2759.6	2700.2	2381.8	2190.7	2204.5	2180.1	2118.5	1691.9	1684.4	1703.5
30°	2905.0	2755.4	2321.3	2303.2	2319.1	2287.3	1781.0	1764.0	1764.0	1783.1
32.5°	3083.3	2499.6	2463.5	2465.6	2455.0	2094.1	1874.4	1870.2	1882.9	1898.8
35°	3033.4	2666.2	2669.4	2687.4	2663.0	2048.5	2020.9	2005.0	2015.6	2021.9
37.5°	2935.8	2916.7	2916.7	2896.5	2273.5	2208.7	2179.0	2176.9	2175.8	2175.8
40°	3182.0	3164.0	3141.7	3106.7	2378.6	2395.6	2351.0	2345.7	2348.8	2360.5
42.5°	3462.2	3454.8	3452.7	2666.2	2597.2	2610.0	2562.2	2548.4	2548.4	2574.9
45°	3792.3	3782.8	3548.2	2849.8	2838.1	2853.0	2799.9	2767.0	2785.1	2804.2
47.5°	4171.3	4171.3	3141.7	3124.7	3124.7	3133.2	3080.1	3035.6	3053.6	3060.0
50°	4586.3	3937.7	3456.9	3441.0	3455.9	3451.6	3396.4	2982.5	3365.7	3368.8
52.5°	4701.9	3829.5	3803.0	3784.9	3803.0	3799.8	3742.5	2487.9	3640.6	3692.6
55°	4168.1	4171.3	4165.9	4139.4	4158.5	4151.1	4094.8	2716.1	2684.2	2392.4
57.5°	4506.6	4510.9	4508.8	4504.5	4521.5	3285.0	4241.3	2453.9	1498.7	1499.7
60°	4875.0	4853.7	4847.4	4837.8	4100.1	2328.7	1767.2	170.9	585.9	577.4
62.5°	5209.3	5201.9	5179.6	5174.3	3479.2	1834.1	1791.6	39.3	30.8	29.7
65°	5674.2	5608.4	5590.3	5534.1	3708.5	1953.0	1912.6	11.7	1.1	0.0
67.5°	5847.2	5713.4	5648.7	5619.0	3773.2	2014.5	1937.0	11.7	1.1	0.0
70°	5520.3	5354.7	5273.0	5240.1	3525.9	1882.9	1806.5	11.7	1.1	0.0
72.5°	4895.1	4773.1	4740.2	4635.1	3108.8	1652.6	1585.7	11.7	0.0	0.0
75°	4015.2	3970.6	3930.3	3818.9	2527.2	1312.9	1253.5	10.6	0.0	0.0
77.5°	2922.0	2856.2	2781.9	2660.9	1705.6	857.6	826.8	9.6	0.0	0.0
80°	1317.2	1263.1	1245.0	1056.1	605.0	279.1	246.2	8.5	0.0	0.0
82.5°	255.8	230.3	218.6	210.2	135.9	75.4	65.8	6.4	0.0	0.0
85°	87.0	96.6	112.5	124.2	76.4	45.6	38.2	4.2	0.0	0.0
87.5°	34.0	45.6	55.2	57.3	28.7	19.1	10.6	2.1	0.0	0.0
90°	6.4	8.5	7.4	5.3	3.2	1.1	0.0	0.0	0.0	0.0
92.5°	3.2	4.2	3.2	3.2	2.1	1.1	0.0	0.0	0.0	0.0
95°	4.2	4.2	4.2	3.2	2.1	1.1	0.0	0.0	0.0	0.0
97.5°	4.2	4.2	4.2	3.2	2.1	1.1	0.0	0.0	0.0	0.0
100°	4.2	4.2	4.2	3.2	2.1	1.1	0.0	0.0	0.0	0.0
102.5°	4.2	4.2	4.2	3.2	2.1	1.1	0.0	0.0	0.0	0.0
105°	4.2	5.3	4.2	3.2	2.1	1.1	0.0	0.0	0.0	0.0
107.5°	4.2	5.3	4.2	3.2	2.1	1.1	0.0	0.0	0.0	0.0
110°	4.2	5.3	4.2	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)