

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: P579599

Luminaire Tested: **CST-CA8-230-760-U-T5-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-3)
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-EX180
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: 22034 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U2 - G4

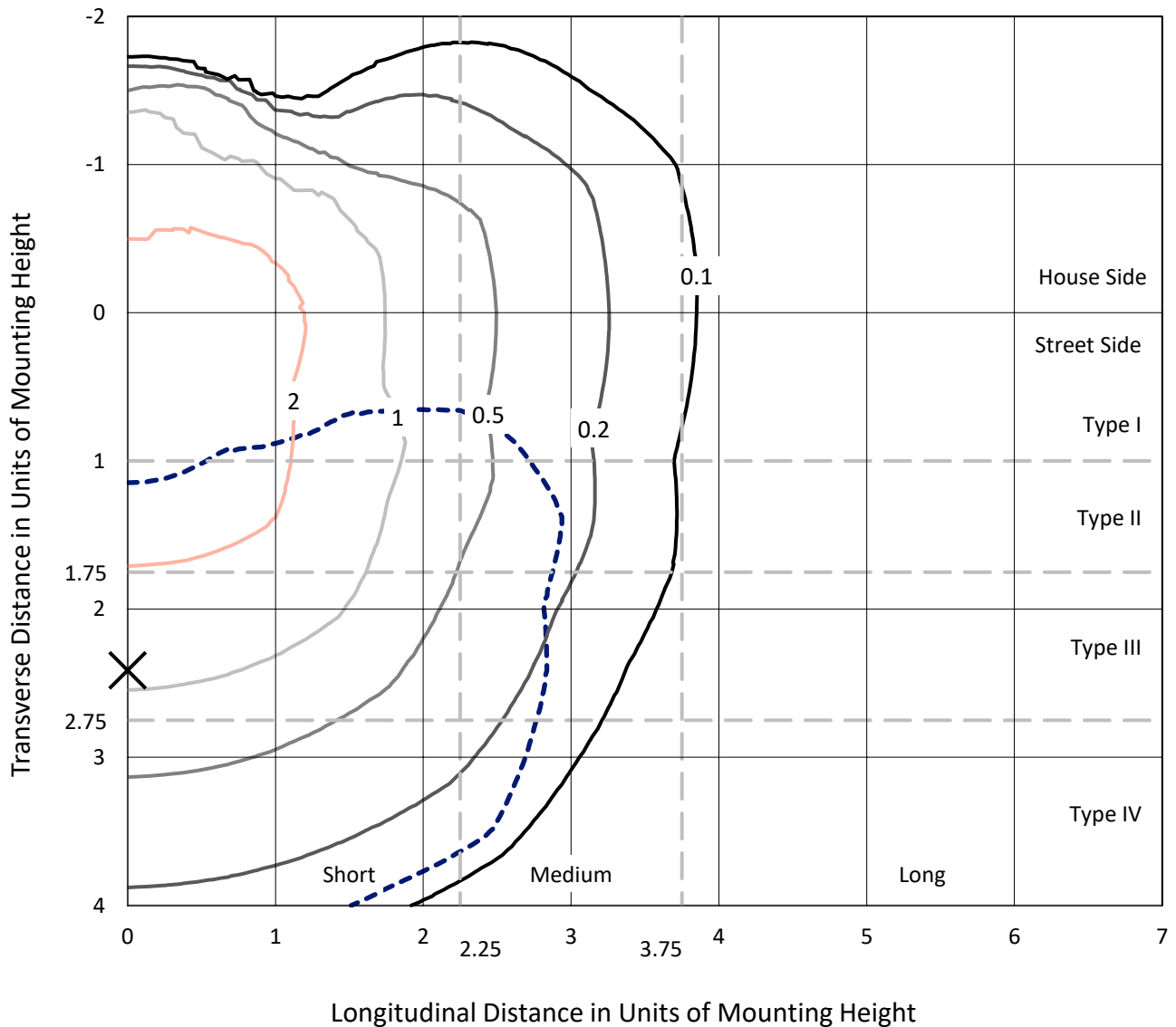
Input Watts (W): 228.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

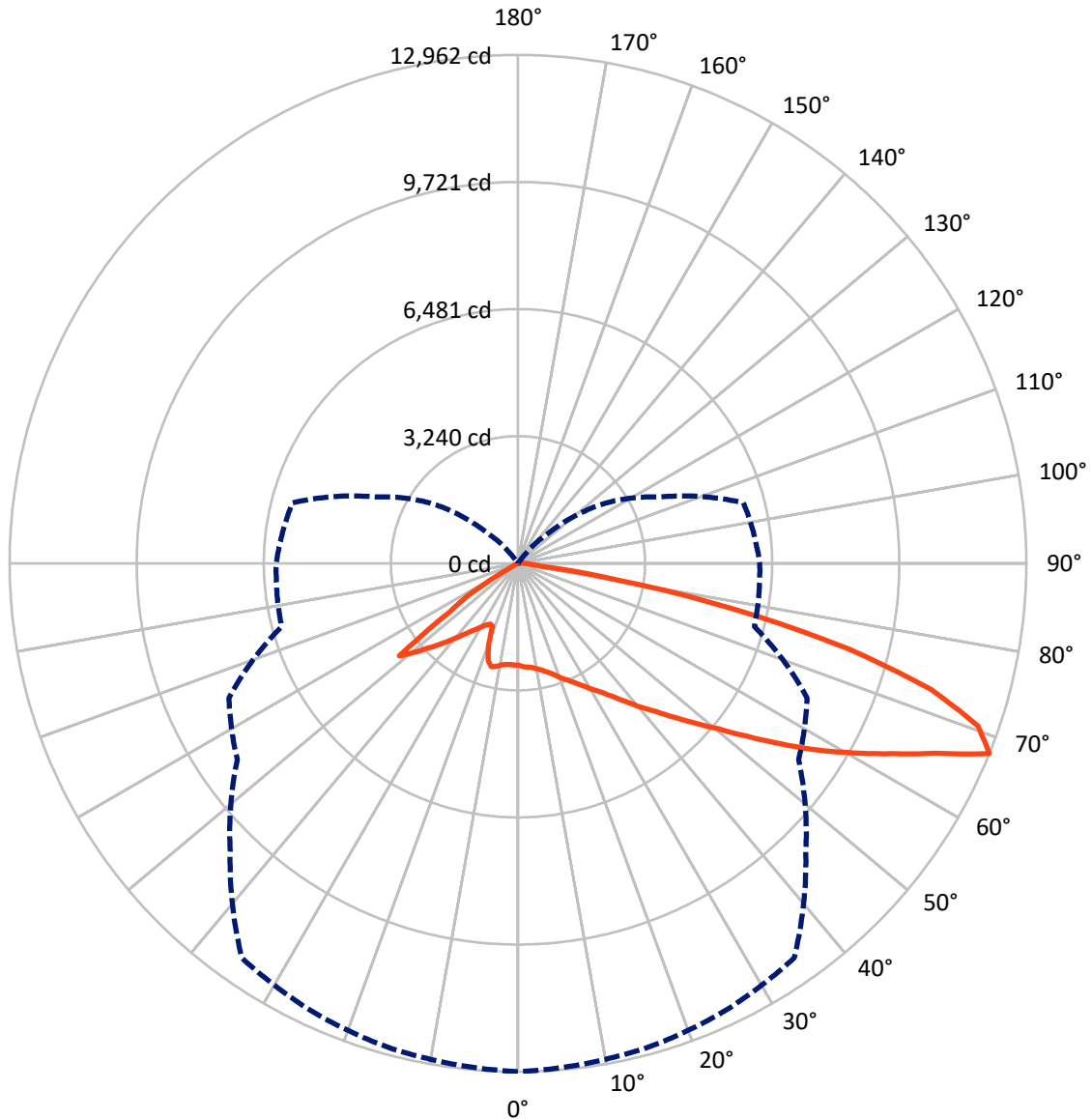
× Max cd
 - - - 1/2 Max cd



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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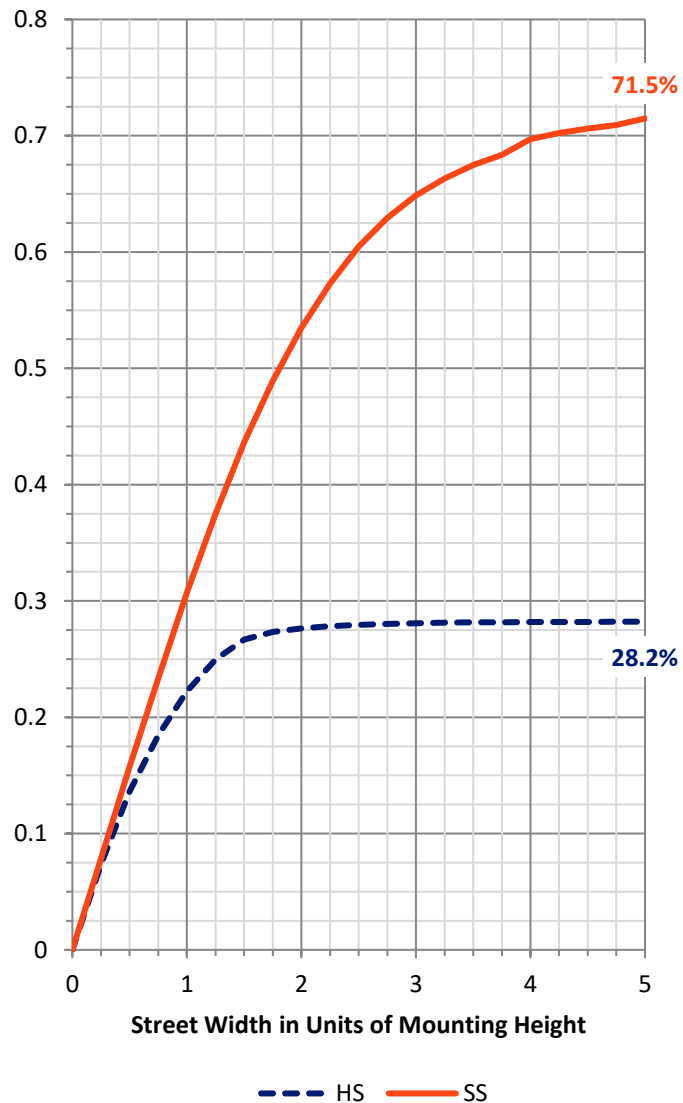
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6244.8	0.1	6244.9
	% Fixture	28.3	0.0	28.3
Street Side	Lumens	15761.0	28.1	15789.0
	% Fixture	71.5	0.1	71.7
Total	Lumens	22005.8	28.1	22034.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.3	1.1
10°-20°	770.4	3.5
20°-30°	1275.7	5.8
30°-40°	2008.1	9.1
40°-50°	3142.7	14.3
50°-60°	4537.6	20.6
60°-70°	5621.3	25.5
70°-80°	4093.9	18.6
80°-90°	305.8	1.4
90°-100°	24.0	0.1
100°-110°	4.0	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°	22005.8	99.9
0°-180°	22034.0	100.0

Coefficient of Utilization

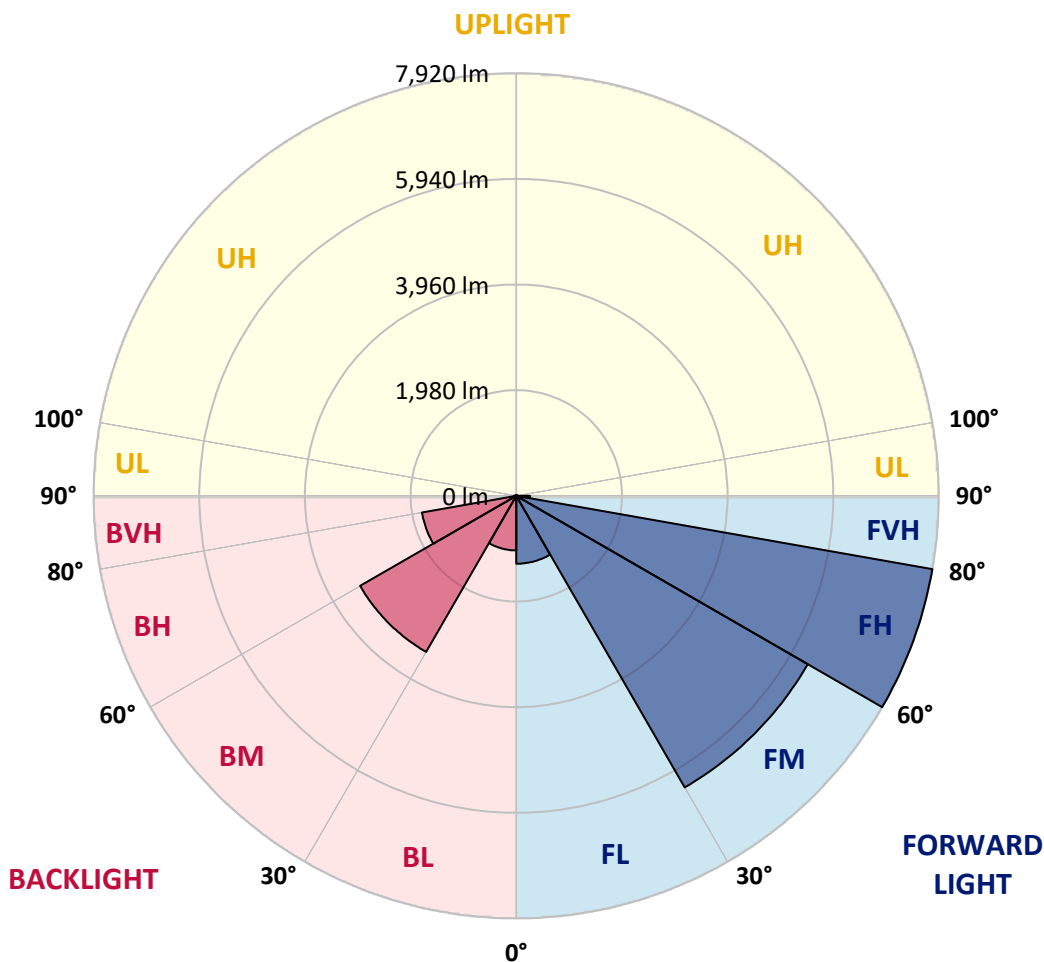


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1272.6	5.8			
FM (30°-60°)	6309.9	28.6			
FH (60°-80°)	7920.5	35.9			G4/12000
FVH (80°-90°)	258.0	1.2			G3/500
BL (0°-30°)	1023.7	4.6	B3/2500		
BM (30°-60°)	3378.6	15.3	B3/5000		
BH (60°-80°)	1794.7	8.1	B3/2500		G3/2500
BVH (80°-90°)	47.9	0.2			G1/100
UL (90°-100°)	24.0	0.1		U2/50	
UH (100°-180°)	4.1	0.0		U1/10	

BUG Rating: B3-U2-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2595.0	2595.0	2595.0	2595.0	2595.0	2595.0	2595.0	2595.0	2595.0	2595.0	2595.0
2.5°	2642.5	2628.2	2628.2	2643.6	2600.6	2613.8	2596.1	2611.6	2602.8	2607.2	2612.7
5°	2658.0	2641.4	2642.5	2661.3	2622.6	2633.7	2612.7	2620.4	2612.7	2616.0	2616.0
7.5°	2686.7	2672.3	2672.3	2683.4	2644.7	2648.0	2629.3	2629.3	2619.3	2627.1	2620.4
10°	2740.8	2725.3	2717.6	2723.1	2688.9	2684.5	2659.1	2659.1	2643.6	2655.8	2645.8
12.5°	2806.0	2783.9	2781.7	2782.8	2744.1	2736.4	2707.7	2708.8	2680.1	2696.6	2684.5
15°	2884.4	2856.8	2854.5	2859.0	2818.1	2803.7	2771.7	2771.7	2739.7	2748.5	2732.0
17.5°	2984.8	2952.8	2947.3	2955.0	2914.2	2900.9	2863.4	2856.8	2821.4	2814.8	2800.4
20°	3117.4	3080.9	3069.9	3086.4	3034.5	3022.4	2977.1	2962.8	2915.3	2836.9	2734.2
22.5°	3236.6	3207.9	3201.3	3212.3	3164.8	3152.7	3108.5	3078.7	2963.9	2806.0	2711.0
25°	3372.4	3361.4	3358.1	3351.5	3308.4	3287.4	3245.5	3203.5	2942.9	2726.4	2724.2
27.5°	3540.3	3534.8	3519.3	3513.8	3466.3	3453.1	3397.8	3127.3	2867.8	2852.3	2843.5
30°	3723.6	3712.6	3697.1	3698.2	3666.2	3641.9	3510.5	3059.9	3012.5	3012.5	2989.3
32.5°	3926.8	3914.6	3899.2	3902.5	3889.2	3868.3	3472.9	3237.7	3201.3	3211.2	3182.5
35°	4178.6	4158.7	4153.2	4166.4	4167.5	4031.7	3539.2	3479.6	3450.8	3444.2	3336.0
37.5°	4472.3	4455.7	4475.6	4506.5	4471.2	4073.7	3803.1	3784.3	3755.6	3595.5	3339.3
40°	4824.6	4794.7	4819.0	4838.9	4815.7	4323.2	4080.3	4086.9	4061.5	3586.7	3302.9
42.5°	5173.5	5144.8	5165.8	5215.5	5206.6	4632.4	4418.2	4432.5	4176.4	3607.7	3585.6
45°	5605.3	5595.3	5588.7	5629.6	5663.8	5002.3	4819.0	4817.9	4094.6	3941.1	3921.3
47.5°	6094.5	6081.2	6084.5	6136.4	6188.3	5444.1	5292.8	4848.9	4305.6	4321.0	4303.3
50°	6640.0	6625.6	6668.7	6743.8	6770.3	5939.9	5754.4	4764.9	4745.1	4761.6	4731.8
52.5°	7332.4	7300.3	7366.6	7447.2	7481.4	6526.2	5779.8	5260.7	5227.6	5230.9	5136.0
55°	8119.7	8094.3	8153.9	8244.5	8295.3	7181.1	6307.6	5743.3	5723.4	5160.3	4646.8
57.5°	8975.5	8946.8	9026.3	9052.8	9066.1	7858.0	6838.8	6266.7	5346.9	4711.9	4683.2
60°	9814.8	9783.8	9884.3	9888.8	9927.4	8533.8	7343.4	6771.4	5151.4	5067.5	5043.2
62.5°	10696.0	10657.3	10745.7	10742.4	10666.2	9152.2	7843.6	7256.2	5500.4	5434.1	5396.6
65°	11674.4	11645.6	11707.5	11608.1	11456.8	9791.6	8362.6	7784.0	5906.7	5894.6	5885.8
67.5°	12961.9	12905.6	12780.8	12568.8	12279.5	10377.9	8733.7	8131.9	6236.9	6180.6	6162.9
70°	12444.0	12377.8	12282.8	12049.8	11755.0	9826.9	8137.4	7606.2	5831.7	5833.9	5791.9
72.5°	11018.4	10903.6	10814.1	10487.3	10324.9	8582.4	7090.5	6601.3	5044.3	5138.2	5118.3
75°	8691.7	8574.7	8427.8	8299.7	8282.0	6961.3	5716.8	5364.6	4021.8	4090.2	4139.9
77.5°	5634.0	5590.9	5776.4	5655.0	5764.3	4793.6	4083.6	3781.0	2771.7	2945.1	2921.9
80°	2578.5	2528.8	2826.9	2743.0	2783.9	2354.3	1995.4	1917.0	1254.5	1263.3	1289.8
82.5°	583.1	563.2	584.2	536.7	523.4	442.8	389.8	353.4	222.0	235.2	247.4
85°	319.1	319.1	314.7	292.6	250.7	206.5	163.4	125.9	68.5	75.1	74.0
87.5°	224.2	218.6	217.5	194.4	166.7	141.3	112.6	80.6	38.6	26.5	24.3
90°	153.5	151.3	143.6	129.2	111.5	91.7	68.5	39.8	16.6	7.7	5.5
92.5°	111.5	109.3	103.8	91.7	76.2	61.8	45.3	26.5	13.3	5.5	1.1
95°	74.0	72.9	69.6	59.6	49.7	39.8	28.7	16.6	11.0	4.4	1.1
97.5°	50.8	49.7	46.4	39.8	32.0	25.4	17.7	12.1	8.8	3.3	1.1
100°	34.2	33.1	30.9	25.4	19.9	15.5	11.0	8.8	6.6	3.3	1.1
102.5°	22.1	21.0	18.8	15.5	11.0	8.8	7.7	6.6	4.4	2.2	1.1
105°	13.3	12.1	9.9	7.7	6.6	5.5	5.5	4.4	3.3	1.1	1.1
107.5°	6.6	5.5	4.4	4.4	4.4	3.3	3.3	3.3	2.2	1.1	0.0
110°	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	1.1	0.0



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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°	2595.0	2595.0	2595.0	2595.0	2595.0	2595.0	2595.0	2595.0	2595.0	2595.0
2.5°	2607.2	2589.5	2599.5	2584.0	2580.7	2564.1	2590.6	2593.9	2591.7	2596.1
5°	2610.5	2591.7	2602.8	2584.0	2584.0	2566.3	2591.7	2591.7	2585.1	2587.3
7.5°	2619.3	2600.6	2608.3	2587.3	2588.4	2567.4	2598.4	2595.0	2589.5	2597.2
10°	2644.7	2623.7	2622.6	2602.8	2607.2	2585.1	2623.7	2623.7	2618.2	2632.6
12.5°	2685.6	2654.7	2649.1	2624.9	2633.7	2614.9	2662.4	2664.6	2665.7	2688.9
15°	2728.7	2691.1	2696.6	2667.9	2664.6	2654.7	2697.7	2695.5	2694.4	2726.4
17.5°	2789.4	2612.7	2584.0	2564.1	2559.7	2535.4	2575.2	2651.4	2611.6	2589.5
20°	2693.3	2600.6	2486.8	2448.2	2440.4	2229.5	2062.8	2137.9	2239.5	2248.3
22.5°	2606.1	2573.0	2564.1	2503.4	2166.6	2095.9	2102.5	2074.9	1834.2	1729.3
25°	2714.3	2685.6	2648.0	2277.0	2197.5	2172.1	2164.4	1881.7	1691.7	1703.9
27.5°	2834.7	2802.6	2475.8	2282.5	2300.2	2264.9	2090.4	1755.8	1744.7	1765.7
30°	2984.8	2728.7	2416.1	2405.1	2421.7	2376.4	1857.4	1833.1	1829.8	1851.9
32.5°	3156.0	2631.5	2575.2	2575.2	2567.4	2078.2	1956.8	1940.2	1949.0	1972.2
35°	3092.0	2783.9	2777.2	2804.8	2619.3	2132.3	2115.8	2087.1	2093.7	2101.4
37.5°	3021.3	3034.5	3037.9	3023.5	1910.4	2286.9	2273.7	2268.2	2261.5	2263.8
40°	3284.1	3292.9	3289.6	3158.2	2061.7	2316.8	2452.6	2442.6	2441.5	2454.8
42.5°	3591.1	3615.4	3596.6	2786.1	2263.8	1947.9	2659.1	2653.6	2651.4	2679.0
45°	3936.7	3959.9	3565.7	2983.7	2479.1	2016.4	2673.4	2878.8	2895.4	2919.7
47.5°	4311.1	4306.7	3290.7	3287.4	2732.0	2206.3	2222.9	3148.3	3175.9	3184.7
50°	4741.7	4033.9	3603.2	3481.8	3018.0	2419.5	2356.5	2888.8	3498.3	3507.2
52.5°	4650.1	3990.8	3962.1	3054.4	3274.2	2654.7	2592.8	2576.3	3626.4	3839.6
55°	4334.3	4367.4	4326.5	3351.5	2400.7	2864.5	2825.8	2809.3	2697.7	2135.7
57.5°	4685.4	4695.4	4660.0	3624.2	2441.5	1785.6	2781.7	2386.3	1550.4	1542.7
60°	5049.8	5066.4	3470.7	2662.4	1564.8	597.4	142.5	150.2	428.5	376.6
62.5°	5397.7	5414.2	3673.9	2432.7	988.3	44.2	28.7	19.9	22.1	22.1
65°	5851.5	5858.2	3932.3	2575.2	1027.0	11.0	3.3	0.0	0.0	0.0
67.5°	6086.7	5950.9	3997.5	2640.3	1054.6	6.6	2.2	0.0	0.0	0.0
70°	5731.2	5585.4	3721.4	2474.7	982.8	5.5	1.1	0.0	0.0	0.0
72.5°	5049.8	4979.2	3340.4	2194.2	870.2	3.3	1.1	0.0	0.0	0.0
75°	4185.2	4091.3	2769.5	1828.7	720.0	2.2	0.0	0.0	0.0	0.0
77.5°	2977.1	2988.2	1930.3	1332.9	490.3	2.2	0.0	0.0	0.0	0.0
80°	1303.0	1332.9	845.9	611.8	173.4	1.1	0.0	0.0	0.0	0.0
82.5°	248.5	228.6	110.4	87.2	22.1	0.0	0.0	0.0	0.0	0.0
85°	81.7	89.4	40.9	33.1	9.9	0.0	0.0	0.0	0.0	0.0
87.5°	28.7	36.4	12.1	9.9	2.2	0.0	0.0	0.0	0.0	0.0
90°	4.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	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°
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)