

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: P579571

Luminaire Tested: **CST-CA10-210-760-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-210-760-U-T5N-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27327 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U2 - G3

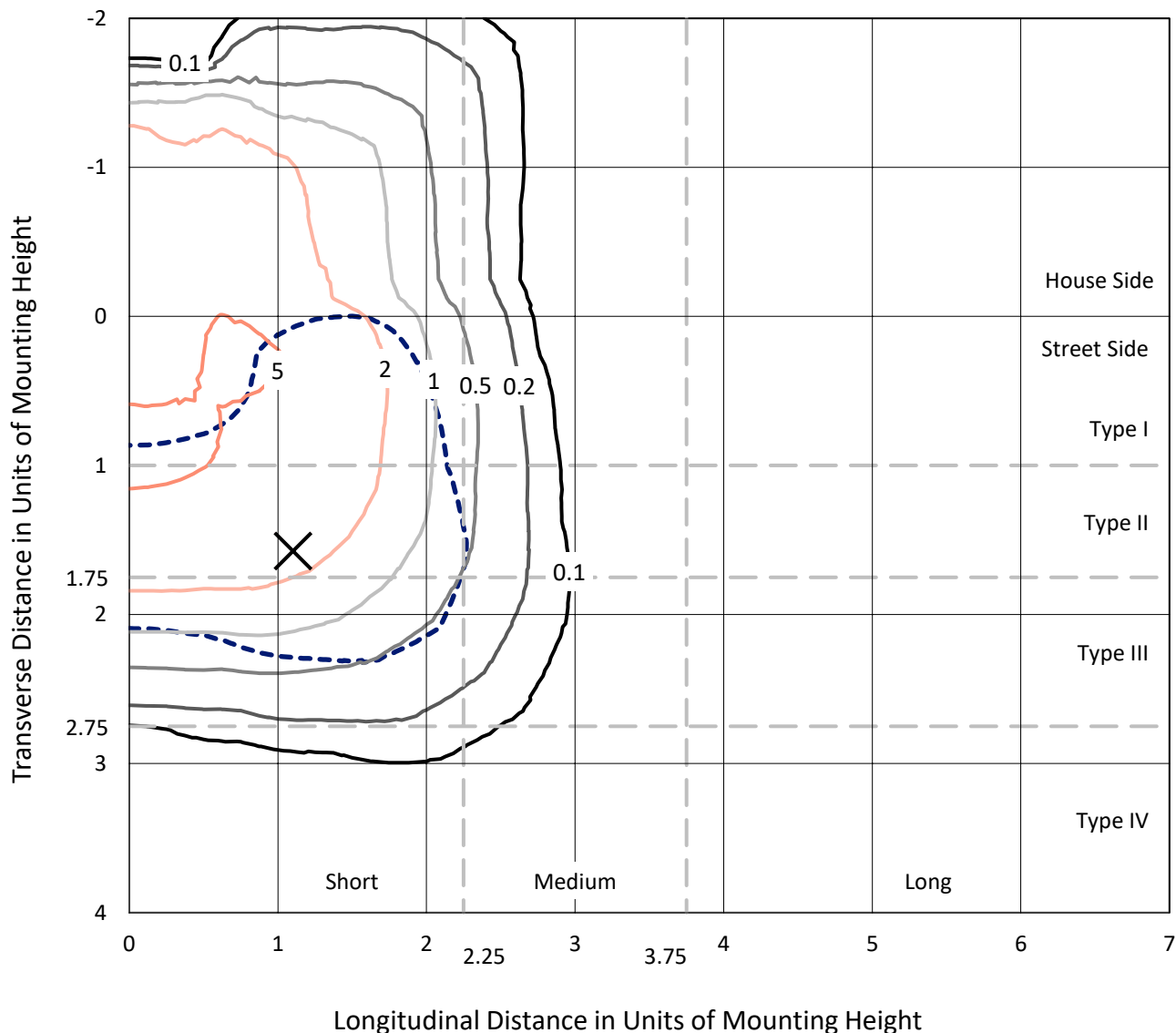
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

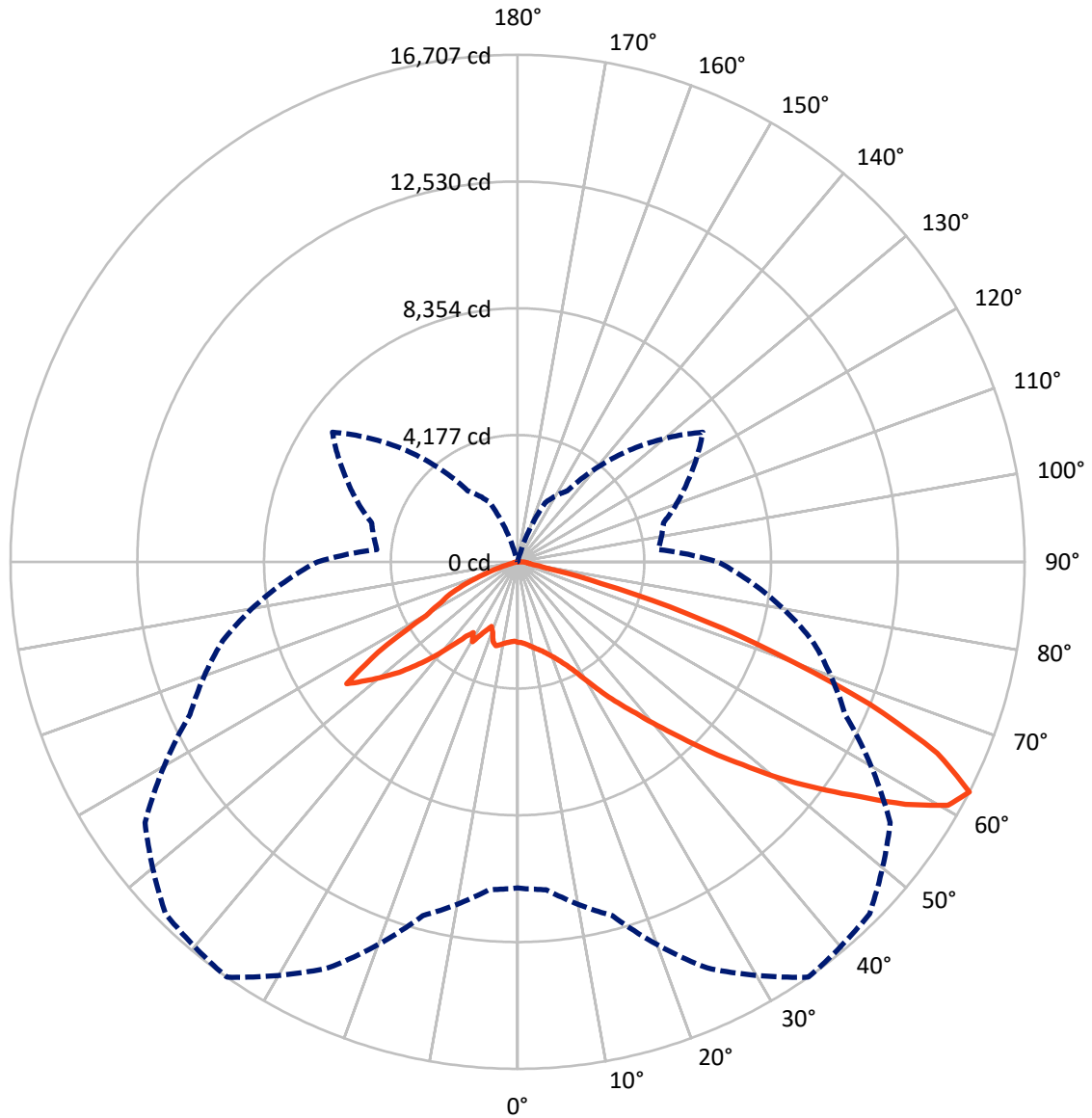
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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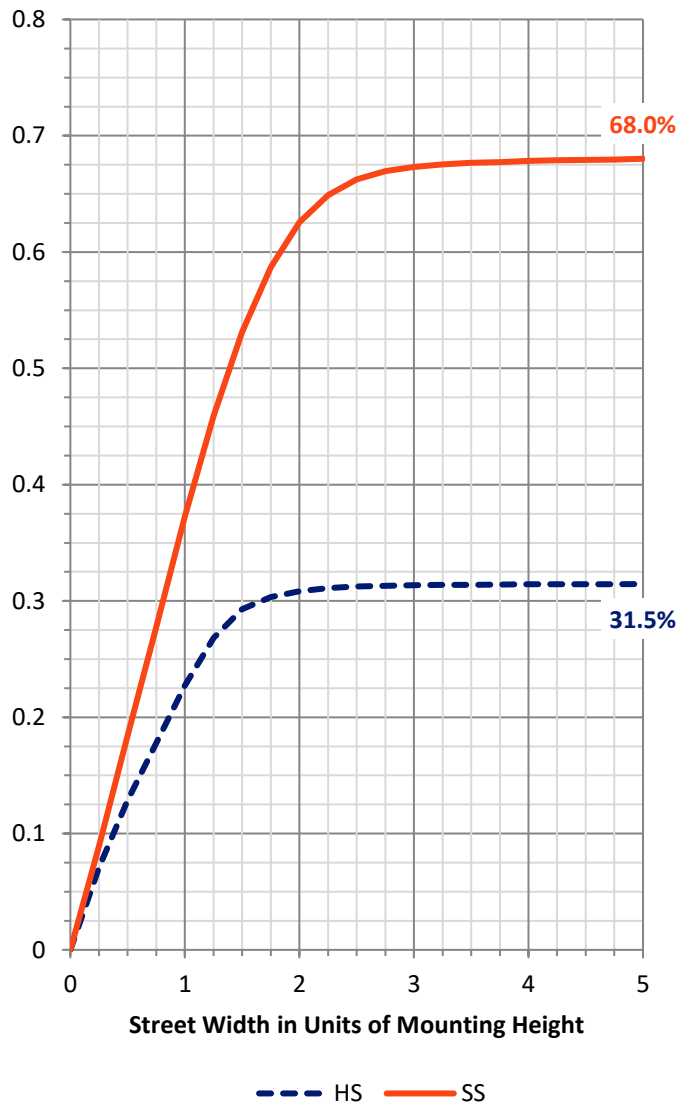
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8645.1	0.0	8645.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	18666.3	15.6	18681.9
	% Fixture	68.3	0.1	68.4
Total	Lumens	27311.4	15.6	27327.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.6	1.0
10°-20°	841.0	3.1
20°-30°	1561.6	5.7
30°-40°	3078.8	11.3
40°-50°	5526.8	20.2
50°-60°	8033.8	29.4
60°-70°	6602.5	24.2
70°-80°	1255.0	4.6
80°-90°	150.2	0.5
90°-100°	14.2	0.1
100°-110°	1.4	0.0
110°-120°	0.0	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°	27311.4	99.9
0°-180°	27327.0	100.0

Coefficient of Utilization

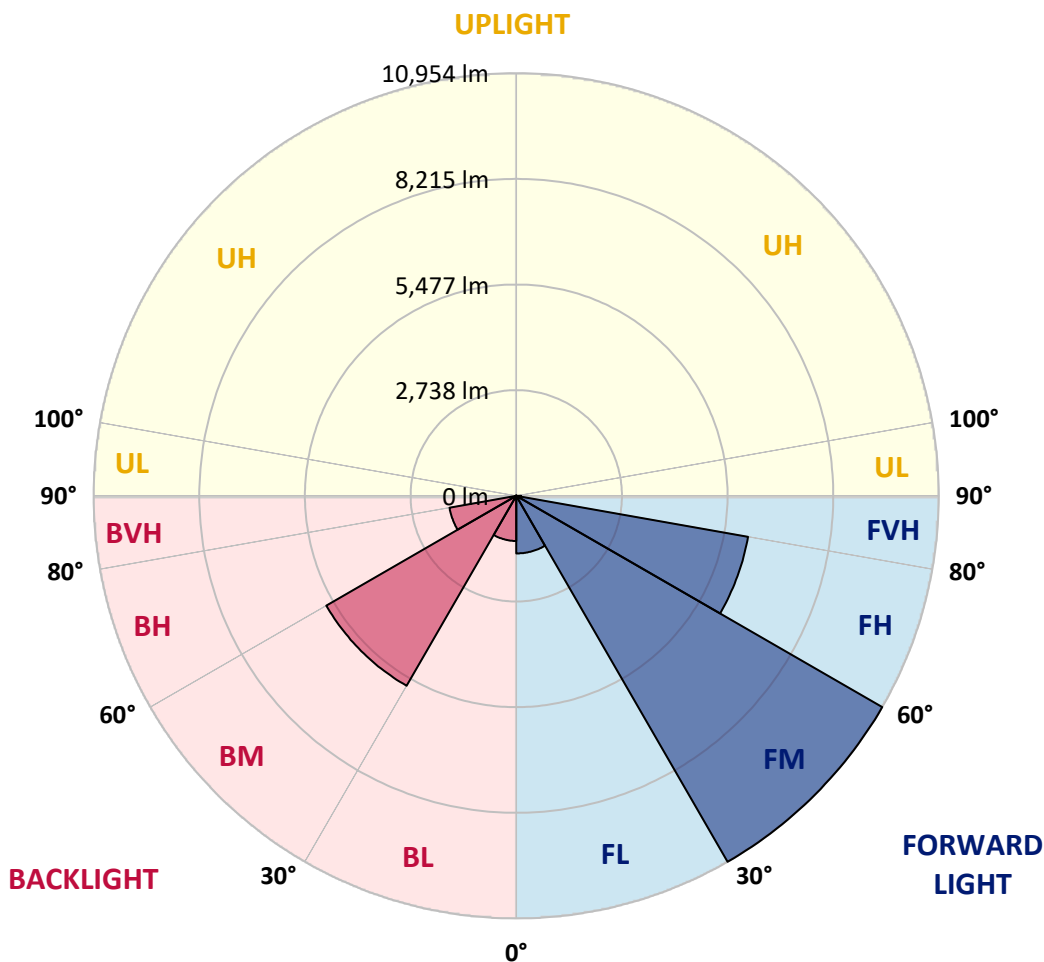


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1493.6	5.5			
FM	(30°-60°)	10953.9	40.1			
FH	(60°-80°)	6100.0	22.3			G3/7500
FVH	(80°-90°)	118.8	0.4			G2/225
BL	(0°-30°)	1170.6	4.3	B3/2500		
BM	(30°-60°)	5685.5	20.8	B4/8500		
BH	(60°-80°)	1757.5	6.4	B3/2500		G3/2500
BVH	(80°-90°)	31.4	0.1			G1/100
UL	(90°-100°)	14.2	0.1		U2/50	
UH	(100°-180°)	1.4	0.0		U1/10	

BUG Rating: B4-U2-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5
2.5°	2720.3	2698.0	2700.3	2716.9	2666.9	2683.6	2660.3	2680.3	2671.4	2680.3	2685.8
5°	2774.7	2746.9	2745.8	2762.5	2722.5	2732.5	2705.8	2719.2	2706.9	2718.0	2718.0
7.5°	2841.3	2818.0	2812.5	2825.8	2790.2	2794.7	2768.0	2773.6	2759.1	2773.6	2762.5
10°	2924.6	2903.5	2894.7	2901.3	2869.1	2871.3	2842.4	2844.7	2823.6	2835.8	2826.9
12.5°	3012.4	2983.5	2979.1	2990.2	2956.9	2952.4	2928.0	2930.2	2906.9	2918.0	2911.3
15°	3103.5	3073.5	3074.6	3085.7	3052.4	3054.6	3029.1	3033.5	3010.2	3021.3	3012.4
17.5°	3224.6	3194.6	3192.3	3212.3	3184.6	3193.5	3166.8	3172.3	3155.7	3157.9	3147.9
20°	3397.8	3359.0	3351.2	3380.1	3343.4	3354.5	3340.1	3359.0	3352.3	3346.7	3339.0
22.5°	3604.4	3574.4	3558.9	3581.1	3537.8	3558.9	3566.7	3605.5	3615.5	3608.9	3486.7
25°	3881.0	3865.5	3849.9	3839.9	3787.7	3821.0	3861.0	3925.4	3967.7	3984.3	3814.4
27.5°	4254.2	4262.0	4194.2	4183.1	4124.3	4176.5	4248.7	4353.1	4438.6	4469.7	4240.9
30°	4734.1	4744.1	4651.9	4625.2	4589.7	4634.1	4768.5	4882.9	5009.6	5061.8	4756.3
32.5°	5371.7	5362.8	5227.3	5176.2	5144.0	5161.7	5302.8	5459.4	5601.6	5719.3	5343.9
35°	6150.3	6122.5	5978.1	5837.1	5709.3	5763.8	5867.1	6057.0	6272.5	6445.8	5923.7
37.5°	7054.5	7027.8	6807.9	6578.0	6325.8	6349.1	6441.3	6751.2	7028.9	7074.5	5824.9
40°	7988.6	7977.5	7769.8	7477.7	7085.6	6975.6	7097.8	7475.5	7768.7	6974.5	6054.8
42.5°	8921.7	8868.4	8751.7	8459.6	7937.5	7695.4	7859.8	8237.4	8552.9	7312.2	6587.9
45°	9862.5	9808.1	9709.2	9494.8	8951.7	8599.5	8647.3	9066.1	9351.5	7945.3	7143.3
47.5°	10697.8	10657.8	10586.7	10466.7	9982.4	9663.7	9571.5	9864.7	10059.1	8459.6	7569.9
50°	11417.6	11383.1	11410.9	11370.9	11228.7	10894.4	10590.0	10571.2	10664.5	8917.2	7962.0
52.5°	12050.7	12004.0	12122.9	12264.0	12395.0	12320.6	11584.2	11240.9	11156.5	9260.5	8225.2
55°	12573.9	12557.2	12761.6	13142.6	13641.3	13836.8	12647.2	11859.6	11596.4	9551.5	8249.7
57.5°	12887.1	12927.1	13359.2	14096.7	15072.0	15164.2	13891.2	12517.2	11984.0	9728.1	8366.3
60°	12351.7	12487.2	13264.8	14812.1	16289.4	16329.4	14785.4	12648.3	11476.4	9092.7	7743.1
62.5°	10747.8	10845.5	12068.5	14766.5	16707.0	16402.7	14985.3	11908.5	10058.0	7713.2	6585.7
65°	7594.3	7707.6	9181.6	13315.9	15199.7	15210.8	13726.8	10297.9	8039.7	5971.5	5085.1
67.5°	4580.8	4764.1	6160.3	9667.0	12515.0	12742.7	11452.0	7796.5	5753.8	3898.8	3291.2
70°	1502.9	1670.6	2812.5	5721.6	9021.6	9996.9	8600.7	5066.2	3004.6	1648.4	1327.4
72.5°	595.4	672.0	990.8	2530.3	5813.7	6674.6	5299.5	2448.1	1008.6	437.6	381.0
75°	397.7	405.4	457.6	862.0	2844.7	3650.0	2554.8	712.0	374.3	273.2	239.9
77.5°	346.6	347.7	371.0	454.3	926.4	1399.6	735.3	382.1	309.9	224.4	198.8
80°	317.7	322.1	336.6	387.7	424.3	475.4	363.2	318.8	268.8	206.6	187.7
82.5°	304.3	307.7	316.6	351.0	343.2	356.6	293.2	253.3	226.6	189.9	179.9
85°	277.7	283.2	288.8	309.9	282.1	244.4	226.6	169.9	162.2	143.3	132.2
87.5°	209.9	208.8	203.3	206.6	188.8	154.4	127.7	95.5	77.8	64.4	53.3
90°	87.8	88.9	85.5	81.1	71.1	58.9	44.4	26.7	13.3	4.4	2.2
92.5°	66.6	67.8	65.5	58.9	51.1	41.1	30.0	15.6	8.9	3.3	1.1
95°	41.1	42.2	40.0	35.5	31.1	23.3	15.6	10.0	5.6	2.2	0.0
97.5°	24.4	25.5	23.3	21.1	16.7	11.1	8.9	6.7	4.4	2.2	0.0
100°	14.4	14.4	13.3	11.1	7.8	6.7	5.6	4.4	3.3	1.1	0.0
102.5°	6.7	6.7	6.7	4.4	3.3	3.3	3.3	3.3	3.3	1.1	0.0
105°	2.2	2.2	1.1	1.1	1.1	2.2	2.2	2.2	2.2	1.1	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2	2.2	1.1	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	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°	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5
2.5°	2680.3	2659.2	2662.5	2643.6	2639.2	2619.2	2654.7	2658.1	2648.1	2658.1
5°	2713.6	2688.1	2694.7	2673.6	2668.1	2640.3	2669.2	2666.9	2659.2	2669.2
7.5°	2762.5	2733.6	2736.9	2712.5	2706.9	2675.8	2702.5	2694.7	2685.8	2698.0
10°	2824.7	2796.9	2798.0	2764.7	2761.4	2725.8	2760.3	2745.8	2732.5	2750.3
12.5°	2911.3	2872.4	2869.1	2832.5	2831.3	2794.7	2830.2	2818.0	2800.2	2828.0
15°	3011.3	2959.1	2945.7	2899.1	2898.0	2859.1	2894.7	2875.8	2866.9	2900.2
17.5°	3141.2	3075.7	2974.6	2815.8	2743.6	2755.8	2881.3	2926.9	2808.0	2825.8
20°	3220.1	2902.4	2754.7	2689.2	2654.7	2457.0	2189.3	2211.5	2474.8	2600.3
22.5°	3086.8	2992.4	2938.0	2845.8	2365.9	2298.2	2313.7	2309.3	1969.4	1868.3
25°	3364.5	3275.6	3176.8	2608.1	2509.2	2480.3	2488.1	2169.3	1983.8	1991.6
27.5°	3764.4	3650.0	3023.5	2776.9	2756.9	2714.7	2561.4	2178.2	2201.5	2217.1
30°	4269.8	3863.2	3220.1	3112.4	3072.4	3026.8	2377.0	2433.7	2477.0	2524.8
32.5°	4758.5	3757.7	3596.7	3484.5	3422.3	2748.0	2681.4	2785.8	2829.1	2870.2
35°	4714.1	4209.8	4001.0	3858.8	3742.2	2965.7	3024.6	3183.5	3297.9	3296.8
37.5°	4836.3	4701.9	4460.8	4280.9	3247.9	3322.3	3445.6	3626.6	3765.5	3764.4
40°	5346.1	5200.6	4974.0	4587.5	3598.9	3772.2	3941.0	4110.9	4210.9	4218.7
42.5°	5852.6	5740.4	5536.1	4052.1	4028.7	4268.7	4445.3	4553.0	4614.1	4635.2
45°	6356.9	6251.4	5439.4	4481.9	4553.0	4790.7	4898.5	4919.6	4985.1	4982.9
47.5°	6757.9	6667.9	5004.0	4992.9	5169.5	5333.9	5299.5	5272.8	5289.5	5298.4
50°	7127.8	5804.9	5395.0	5557.2	5826.0	5846.0	5702.7	4517.5	5592.7	5573.8
52.5°	6621.3	5664.9	5759.3	6139.2	6596.8	6364.7	6084.8	3959.9	5245.0	5743.8
55°	5793.8	5889.3	6102.5	6740.1	7192.2	6916.7	6449.1	4077.6	3481.1	2833.6
57.5°	5909.3	6060.3	6465.8	7346.6	7740.9	5478.3	6019.2	2874.7	1946.1	1945.0
60°	5502.7	5731.5	6458.0	7618.7	6265.8	3510.0	2411.5	65.5	377.7	374.3
62.5°	4651.9	4977.3	6161.4	7446.6	5190.6	2852.4	2148.2	5.6	2.2	2.2
65°	3597.8	3981.0	5137.3	6448.0	4598.6	2457.0	1595.1	0.0	0.0	0.0
67.5°	2359.3	2714.7	3857.7	5356.1	3817.7	1857.2	1071.9	0.0	0.0	0.0
70°	983.0	1421.8	2397.0	3871.0	2808.0	1216.3	508.7	0.0	0.0	0.0
72.5°	284.4	433.2	1079.7	2311.5	1742.8	636.5	188.8	0.0	0.0	0.0
75°	187.7	197.7	326.6	929.7	847.5	233.3	76.6	0.0	0.0	0.0
77.5°	157.7	162.2	207.7	259.9	272.1	92.2	62.2	0.0	0.0	0.0
80°	145.5	146.6	186.6	193.3	145.5	76.6	61.1	0.0	0.0	0.0
82.5°	135.5	132.2	158.8	153.3	121.1	66.6	56.6	0.0	0.0	0.0
85°	93.3	95.5	107.7	136.6	73.3	33.3	40.0	0.0	0.0	0.0
87.5°	28.9	33.3	42.2	43.3	13.3	4.4	0.0	0.0	0.0	0.0
90°	1.1	0.0	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)