

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: P579570

Luminaire Tested: **CST-CA10-210-760-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579570
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-CA10-210-760-U-T5-HSS-HM-EX90
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: 28085 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U2 - G4

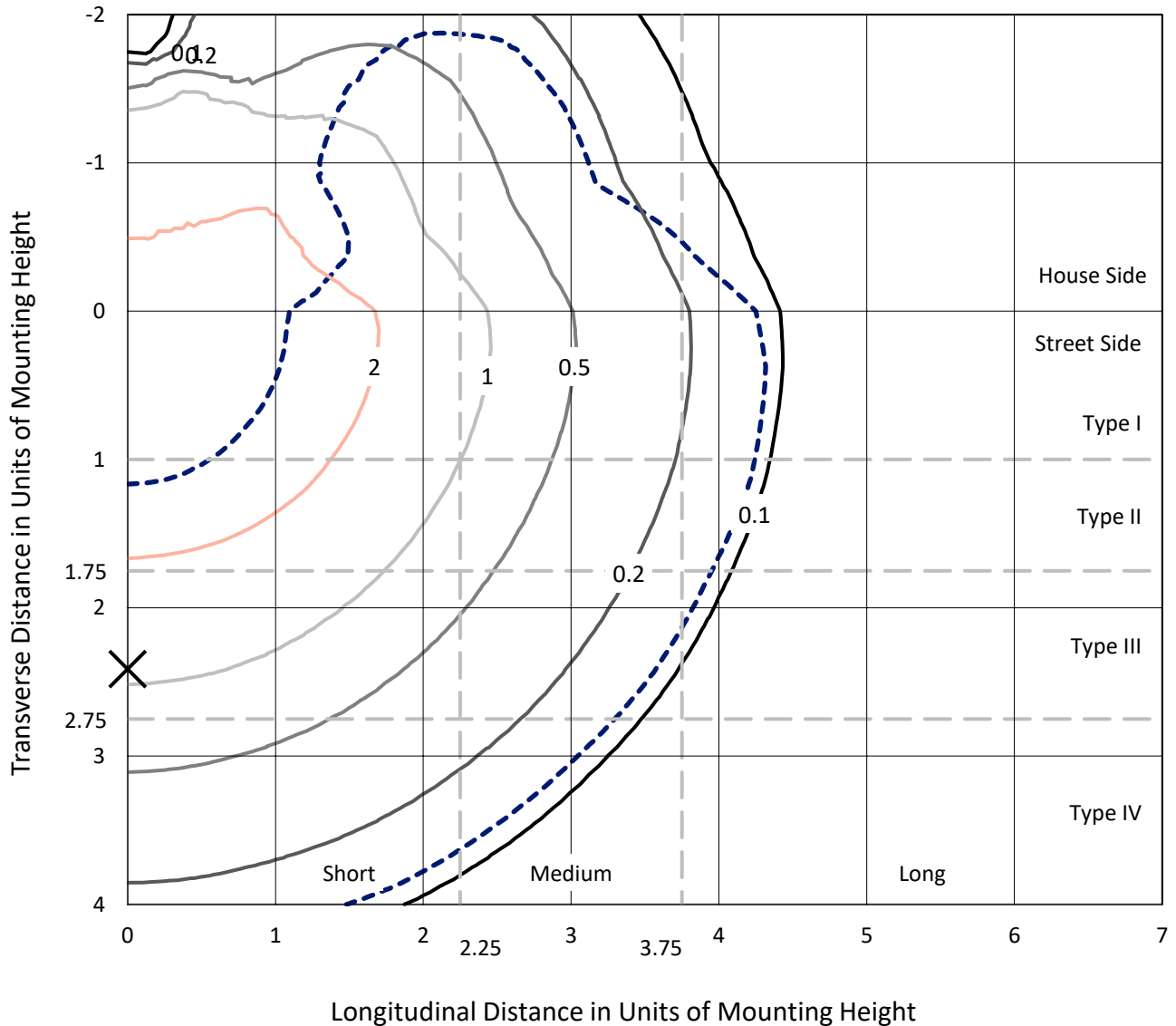
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

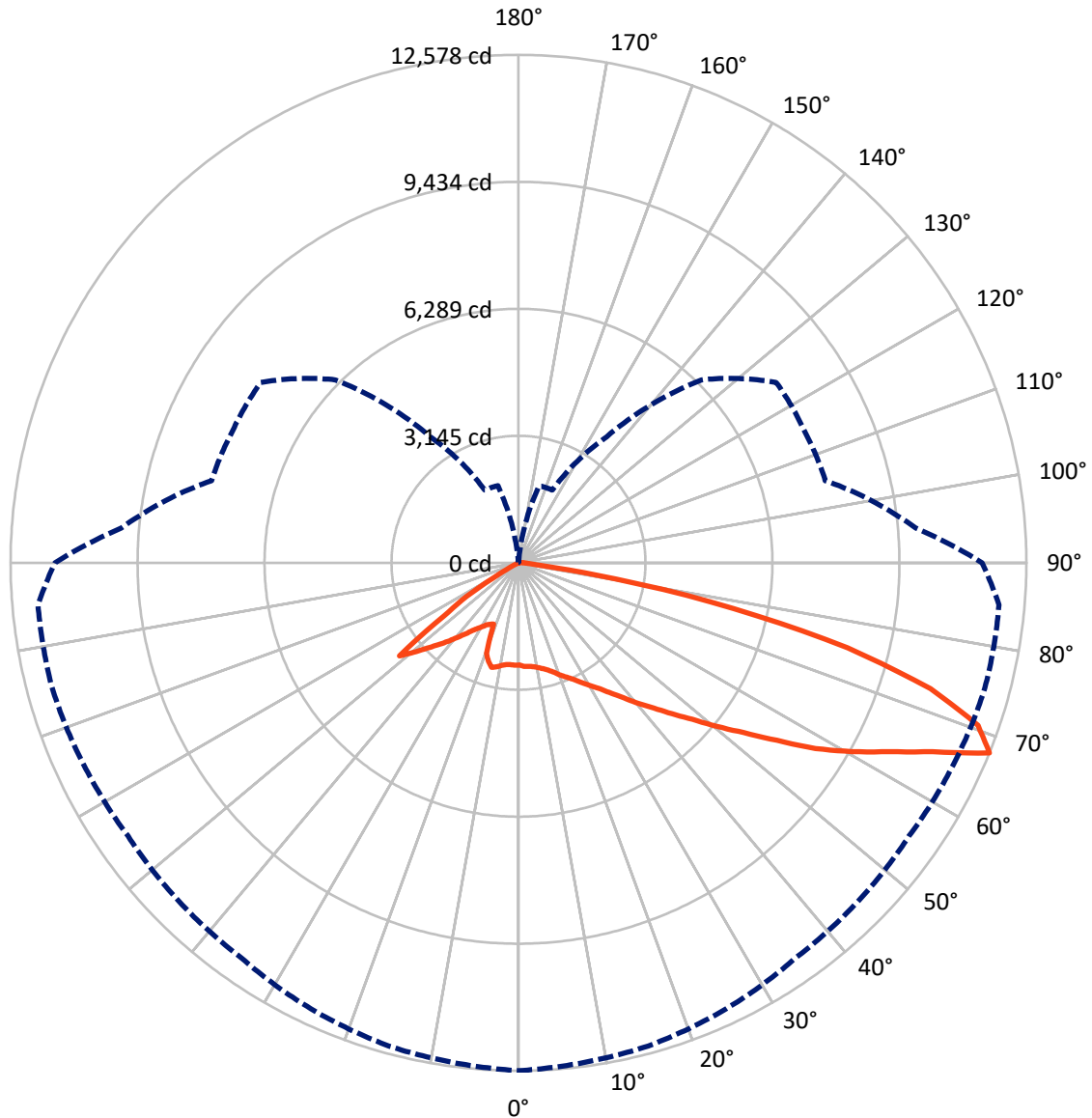
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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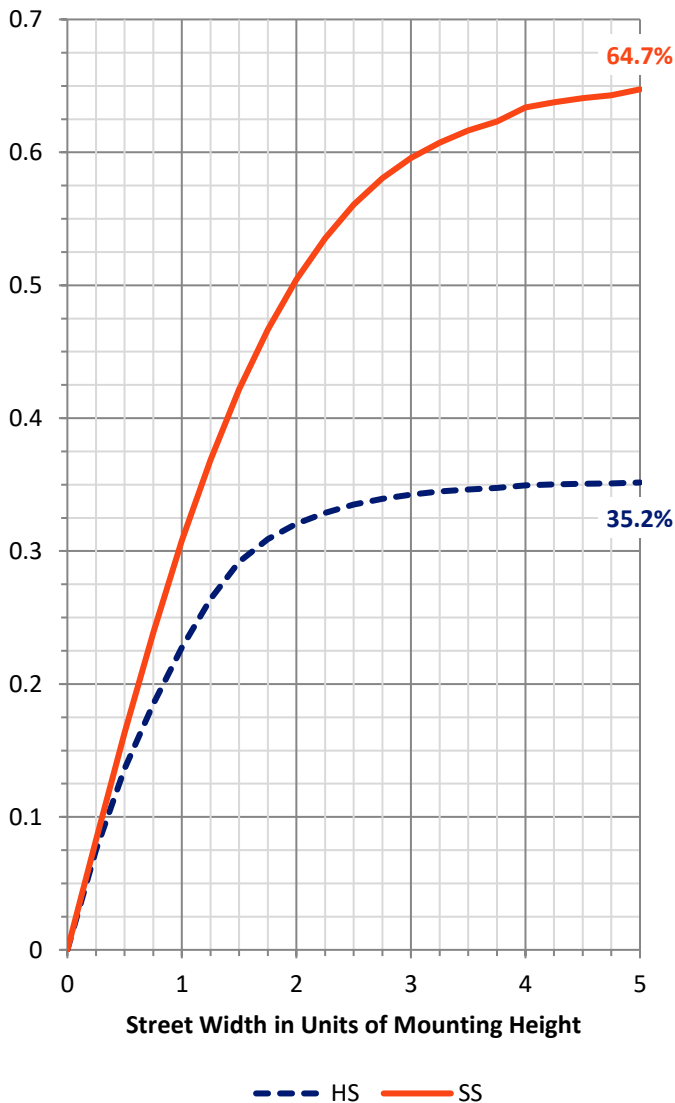
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9885.9	0.6	9886.5
	% Fixture	35.2	0.0	35.2
Street Side	Lumens	18178.7	19.8	18198.6
	% Fixture	64.7	0.1	64.8
Total	Lumens	28064.6	20.4	28085.0
	% Fixture	99.9	0.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.5	0.9
10°-20°	756.4	2.7
20°-30°	1311.4	4.7
30°-40°	2151.8	7.7
40°-50°	3589.3	12.8
50°-60°	5808.8	20.7
60°-70°	8018.0	28.5
70°-80°	5784.6	20.6
80°-90°	400.9	1.4
90°-100°	17.4	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°	28064.6	99.9
0°-180°	28085.0	100.0

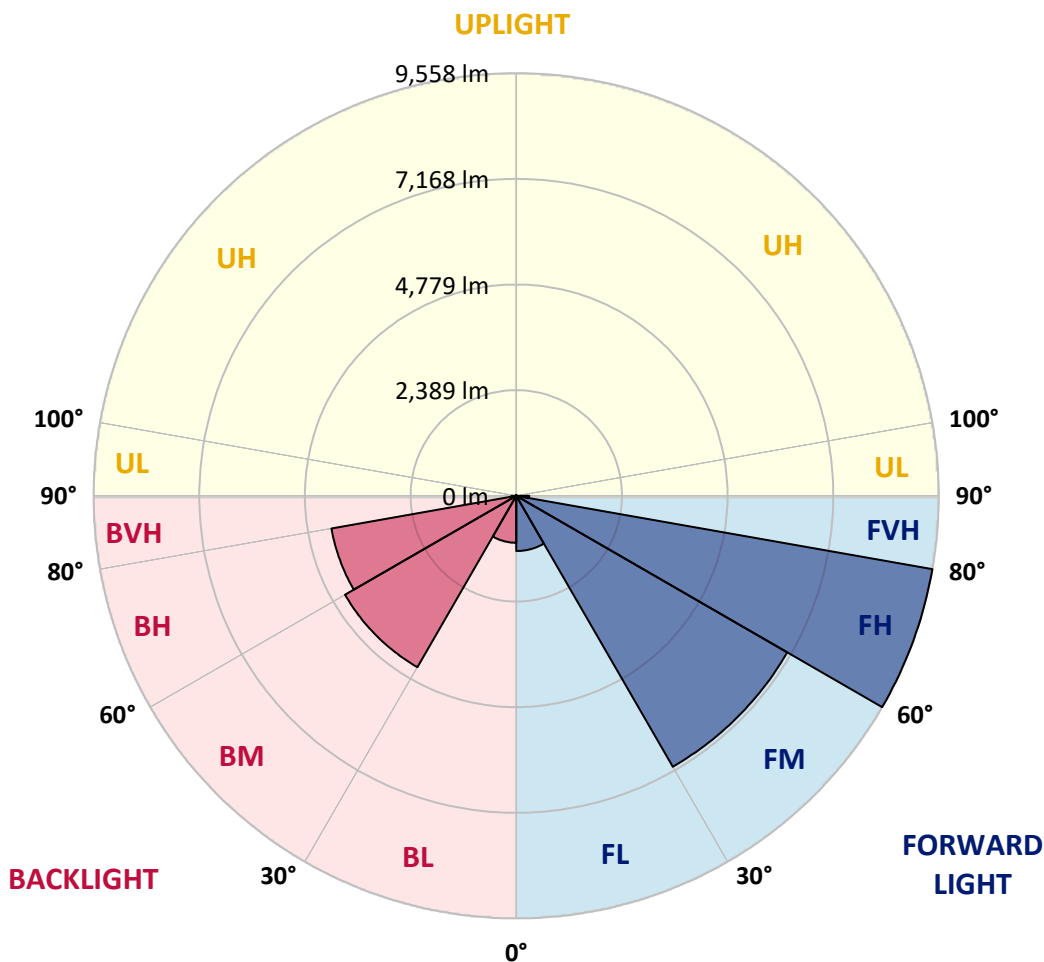


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1248.9	4.4			
FM (30°-60°)	7076.7	25.2			
FH (60°-80°)	9557.7	34.0			G4/12000
FVH (80°-90°)	295.4	1.1			G3/500
BL (0°-30°)	1062.4	3.8	B3/2500		
BM (30°-60°)	4473.1	15.9	B3/5000		
BH (60°-80°)	4244.9	15.1	B4/5000		G4/5000
BVH (80°-90°)	105.5	0.4			G2/225
UL (90°-100°)	17.4	0.1		U2/50	
UH (100°-180°)	3.0	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°	2530.9	2530.9	2530.9	2530.9	2530.9	2530.9	2530.9	2530.9	2530.9	2530.9	2530.9
2.5°	2569.7	2554.6	2555.7	2570.7	2529.9	2544.9	2527.7	2542.8	2535.3	2540.6	2547.1
5°	2577.2	2558.9	2561.1	2579.3	2547.1	2558.9	2538.5	2547.1	2540.6	2547.1	2548.2
7.5°	2596.5	2578.3	2579.3	2593.3	2560.0	2568.6	2549.2	2553.5	2542.8	2554.6	2551.4
10°	2637.4	2620.2	2613.7	2625.6	2596.5	2597.6	2575.0	2579.3	2563.2	2579.3	2572.9
12.5°	2692.2	2668.6	2670.7	2677.2	2641.7	2643.8	2617.0	2623.4	2596.5	2619.1	2611.6
15°	2758.9	2729.9	2733.1	2743.8	2709.4	2706.2	2681.5	2681.5	2657.8	2675.0	2667.5
17.5°	2851.4	2819.1	2816.9	2824.5	2796.5	2796.5	2768.6	2765.3	2741.7	2755.7	2753.5
20°	2971.8	2935.2	2928.8	2942.7	2907.3	2911.6	2876.1	2872.9	2847.0	2855.7	2856.7
22.5°	3080.4	3051.3	3050.3	3071.8	3029.8	3035.2	3002.9	2994.3	2972.8	2984.7	2987.9
25°	3205.1	3200.8	3197.6	3205.1	3163.1	3163.1	3140.6	3133.0	3119.1	3127.7	3136.3
27.5°	3362.1	3359.9	3351.3	3352.4	3316.9	3322.3	3297.5	3293.2	3286.8	3285.7	3281.4
30°	3535.2	3525.5	3513.7	3521.2	3505.1	3510.4	3488.9	3474.9	3472.8	3473.9	3467.4
32.5°	3727.6	3714.7	3707.2	3720.1	3726.5	3741.6	3740.5	3701.8	3701.8	3717.9	3688.9
35°	3966.3	3945.9	3952.3	3969.5	3982.4	4021.1	4014.7	3987.8	3996.4	4003.9	3969.5
37.5°	4246.9	4232.9	4262.0	4294.2	4295.3	4350.1	4337.2	4343.7	4342.6	4332.9	4310.4
40°	4583.4	4560.9	4591.0	4615.7	4600.7	4666.2	4664.1	4693.1	4712.5	4745.8	4732.9
42.5°	4917.8	4900.6	4929.7	4983.4	4974.8	5050.1	5060.8	5106.0	5132.9	5184.5	5154.4
45°	5329.6	5319.9	5346.8	5388.8	5417.8	5517.8	5557.6	5576.9	5644.6	5707.0	5637.1
47.5°	5790.9	5803.8	5799.5	5875.8	5940.3	6061.8	6077.9	6140.3	6199.4	6268.2	6200.5
50°	6365.0	6343.5	6362.9	6436.0	6541.3	6629.5	6712.3	6801.5	6859.6	6930.5	6805.8
52.5°	6983.2	7001.5	7044.5	7157.4	7234.8	7339.1	7414.4	7520.8	7577.8	7639.1	7476.7
55°	7762.7	7777.8	7825.1	7941.2	7996.0	8114.3	8165.9	8272.4	8327.2	8354.1	8146.6
57.5°	8676.6	8626.1	8664.8	8725.0	8809.9	8937.9	8951.9	9051.9	9051.9	9086.3	8821.8
60°	9492.7	9458.3	9499.1	9585.1	9618.5	9734.6	9722.8	9804.5	9826.0	9800.2	9484.1
62.5°	10296.9	10303.4	10356.0	10384.0	10371.1	10439.9	10467.9	10553.9	10518.4	10527.0	10162.5
65°	11273.2	11288.2	11282.8	11231.2	11115.1	11250.6	11243.1	11379.6	11388.2	11465.6	11042.0
67.5°	12578.4	12511.8	12390.3	12182.7	11952.7	11873.1	11803.2	11870.9	11958.0	11944.1	11479.6
70°	12070.9	11962.3	11898.9	11718.3	11410.8	11251.7	11106.5	11118.3	11245.2	11257.0	10781.8
72.5°	10671.1	10616.2	10372.2	10214.1	10003.4	9880.8	9705.6	9745.3	9910.9	9938.9	9560.4
75°	8417.5	8367.0	8146.6	8095.0	7990.7	8050.9	8007.9	8024.0	8157.3	8034.7	7807.9
77.5°	5447.9	5459.7	5425.3	5542.5	5538.2	5541.4	5698.4	5714.5	5844.6	5769.4	5550.0
80°	2442.8	2478.3	2562.1	2732.0	2628.8	2684.7	2744.9	2726.6	2857.8	2561.1	2667.5
82.5°	494.6	511.8	482.8	504.3	470.9	488.1	512.9	475.2	470.9	436.5	405.3
85°	254.8	258.0	257.0	251.6	221.5	204.3	196.8	165.6	149.4	146.2	135.5
87.5°	165.6	167.7	162.4	161.3	141.9	130.1	116.1	97.8	81.7	57.0	47.3
90°	101.1	101.1	95.7	90.3	80.6	72.0	58.1	41.9	24.7	9.7	5.4
92.5°	67.7	67.7	65.6	62.4	55.9	48.4	37.6	24.7	11.8	4.3	2.2
95°	43.0	43.0	41.9	40.9	36.6	31.2	23.7	15.1	7.5	3.2	1.1
97.5°	28.0	28.0	28.0	26.9	24.7	21.5	16.1	9.7	5.4	2.2	1.1
100°	17.2	18.3	17.2	17.2	16.1	14.0	10.8	6.5	4.3	2.2	1.1
102.5°	9.7	9.7	10.8	10.8	9.7	8.6	6.5	5.4	3.2	2.2	1.1
105°	4.3	4.3	5.4	5.4	5.4	4.3	4.3	3.2	2.2	2.2	1.1
107.5°	1.1	1.1	1.1	2.2	3.2	3.2	3.2	3.2	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°	2530.9	2530.9	2530.9	2530.9	2530.9	2530.9	2530.9	2530.9	2530.9	2530.9
2.5°	2540.6	2527.7	2537.4	2521.3	2517.0	2503.0	2529.9	2534.2	2532.0	2536.3
5°	2542.8	2526.6	2538.5	2522.3	2521.3	2506.2	2534.2	2535.3	2527.7	2530.9
7.5°	2549.2	2534.2	2542.8	2524.5	2526.6	2508.4	2540.6	2539.6	2535.3	2542.8
10°	2572.9	2555.7	2558.9	2539.6	2544.9	2525.6	2565.4	2567.5	2563.2	2577.2
12.5°	2613.7	2590.1	2597.6	2575.0	2579.3	2560.0	2608.4	2611.6	2611.6	2634.2
15°	2669.6	2644.9	2661.0	2632.0	2633.1	2604.1	2640.6	2640.6	2644.9	2676.1
17.5°	2751.4	2721.3	2742.8	2715.9	2548.2	2484.7	2609.4	2685.8	2558.9	2548.2
20°	2852.4	2838.4	2850.3	2806.2	2534.2	2243.9	2018.1	2006.3	2256.8	2381.5
22.5°	2976.1	2962.1	2967.5	2911.6	2262.2	2057.9	2054.6	2033.1	1720.3	1634.3
25°	3121.2	3113.7	3101.9	2633.1	2338.5	2142.8	2117.0	1836.4	1656.8	1673.0
27.5°	3277.1	3254.5	2855.7	2735.2	2455.7	2227.8	2081.5	1714.9	1708.4	1723.5
30°	3451.3	3332.0	2923.4	2882.5	2592.2	2333.1	1811.7	1790.2	1790.2	1813.8
32.5°	3672.8	3111.5	3111.5	3090.0	2761.0	2048.2	1907.4	1894.4	1909.5	1919.2
35°	3639.4	3347.0	3381.4	3371.7	2990.0	2085.8	2061.1	2039.6	2042.8	2042.8
37.5°	3650.2	3662.0	3702.9	3661.0	2608.4	2249.3	2209.5	2205.2	2208.4	2215.9
40°	3987.8	3994.3	4009.3	3916.8	2803.0	2439.6	2384.7	2374.0	2384.7	2400.9
42.5°	4351.2	4369.5	4386.7	3562.0	3075.0	2655.7	2600.8	2580.4	2599.8	2617.0
45°	4781.3	4809.2	4545.8	3877.1	3382.5	2901.9	2843.8	2819.1	2830.9	2846.0
47.5°	5265.1	5309.2	4286.7	4278.1	3743.7	3193.3	3126.6	3079.3	3097.6	3096.5
50°	5811.3	5073.7	4736.1	4730.7	4146.9	3518.0	3449.1	3406.1	3420.1	3409.4
52.5°	6401.6	5212.4	5223.2	5222.1	4568.4	3867.4	3804.0	3750.2	3639.4	3741.6
55°	7005.8	5691.9	5732.8	5726.4	5010.3	4228.6	4160.9	4110.4	2685.8	2268.6
57.5°	7606.8	6193.0	6205.9	6220.9	5468.3	4577.0	4279.2	3930.8	1532.1	1524.6
60°	8200.3	6670.4	6696.2	6704.8	5715.6	3788.9	1749.3	1781.6	463.4	553.7
62.5°	8815.3	7141.3	7164.9	7157.4	5961.8	3523.3	1837.5	1800.9	43.0	39.8
65°	9600.2	7731.5	7698.2	7673.5	6350.0	3759.9	1974.0	1964.3	14.0	9.7
67.5°	9875.4	7865.9	7798.2	7789.6	6405.9	3810.4	1984.8	1977.2	14.0	9.7
70°	9251.8	7355.2	7239.1	7242.3	5960.7	3564.2	1851.4	1840.7	12.9	9.7
72.5°	8102.5	6496.2	6447.8	6191.9	5161.9	3135.2	1641.8	1600.9	12.9	8.6
75°	6652.1	5247.9	5140.4	4853.3	4108.2	2492.2	1289.1	1236.4	11.8	7.5
77.5°	4617.9	3680.3	3474.9	3182.5	2748.1	1652.5	866.6	798.9	10.8	7.5
80°	2093.4	1510.6	1518.1	1163.3	932.2	560.2	275.2	249.4	9.7	6.5
82.5°	364.5	268.8	252.7	244.1	203.2	137.6	83.9	72.0	8.6	4.3
85°	126.9	102.1	112.9	133.3	118.3	82.8	51.6	49.5	5.4	2.2
87.5°	43.0	45.2	52.7	63.4	55.9	32.3	19.4	14.0	1.1	0.0
90°	4.3	5.4	5.4	5.4	3.2	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)