

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: P522197

Luminaire Tested: **CST-CA6-230-760-U-T5R-HSS-HM-EX90**

Issue Date: 5/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522197  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-894-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 5/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA6-230-760-U-T5R-HSS-HM-EX90  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (6) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29080 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U1 - G4

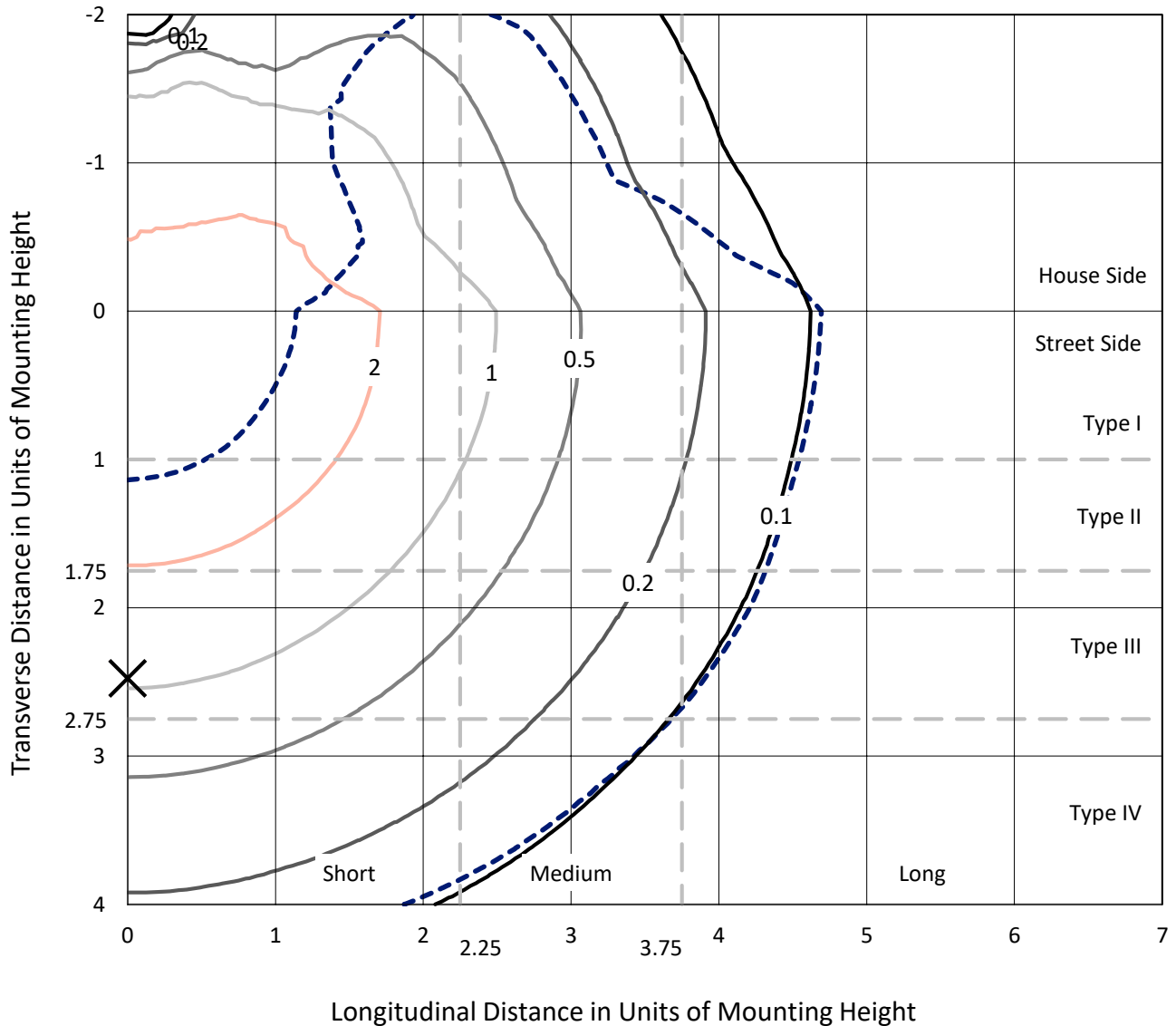
Input Watts (W): 227.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

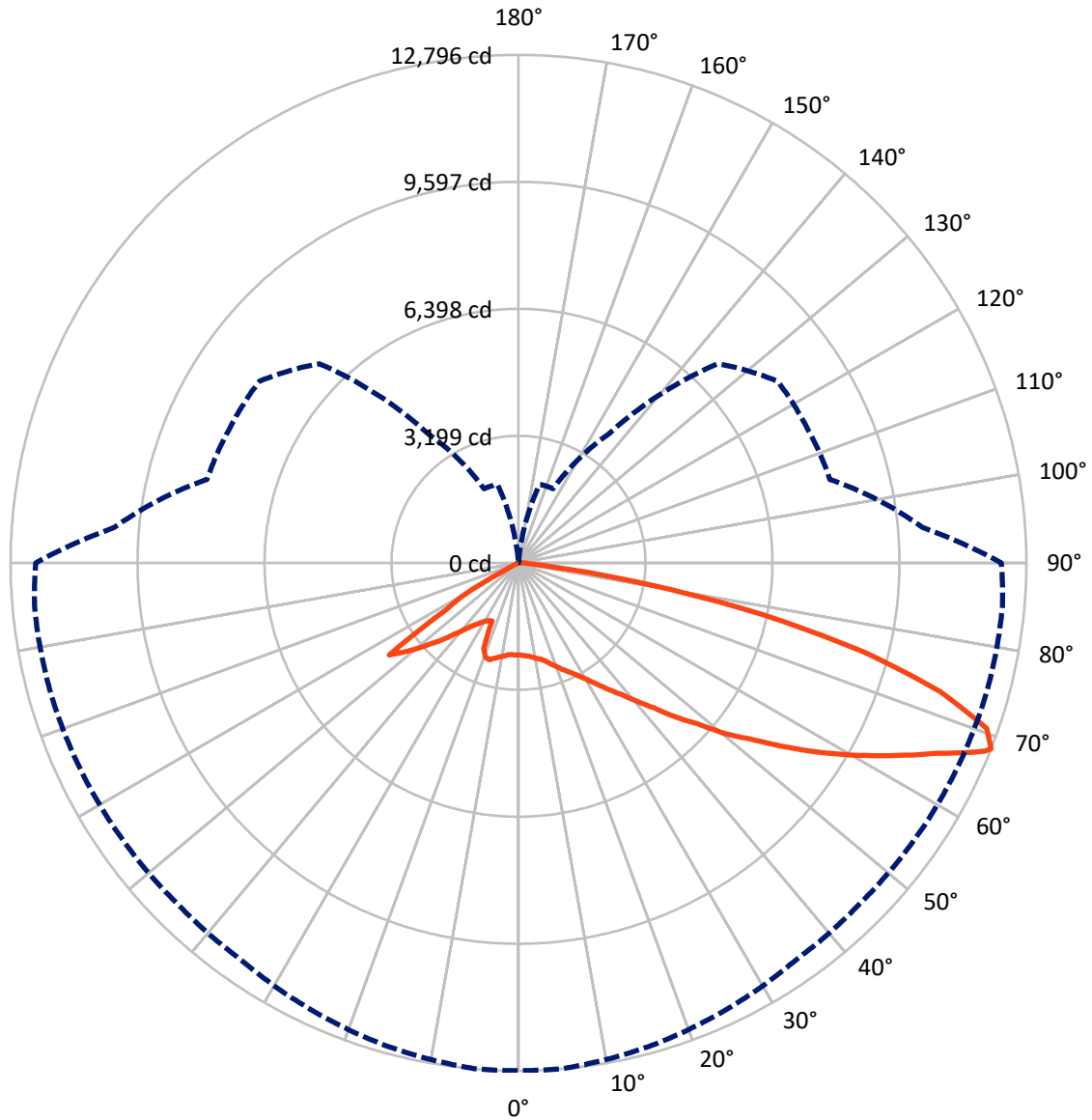
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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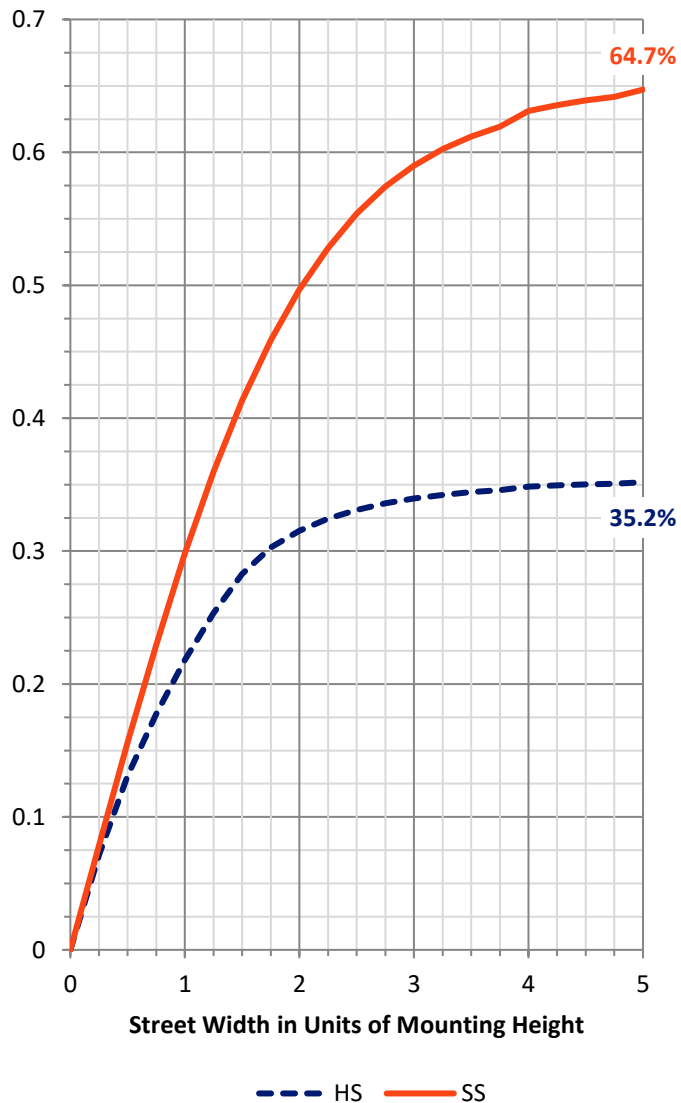
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10234.2	1.8	10235.9
	% Fixture	35.2	0.0	35.2
<b>Street Side</b>	Lumens	18836.4	7.7	18844.1
	% Fixture	64.8	0.0	64.8
<b>Total</b>	Lumens	29070.6	9.4	29080.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.9	0.8
10°-20°	717.3	2.5
20°-30°	1280.5	4.4
30°-40°	2083.2	7.2
40°-50°	3557.5	12.2
50°-60°	5935.8	20.4
60°-70°	8257.9	28.4
70°-80°	6401.1	22.0
80°-90°	613.4	2.1
90°-100°	7.4	0.0
100°-110°	0.6	0.0
110°-120°	0.3	0.0
120°-130°	0.2	0.0
130°-140°	0.2	0.0
140°-150°	0.3	0.0
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.1	0.0
0°-90°	29070.6	100.0
0°-180°	29080.0	100.0

**Coefficient of Utilization**



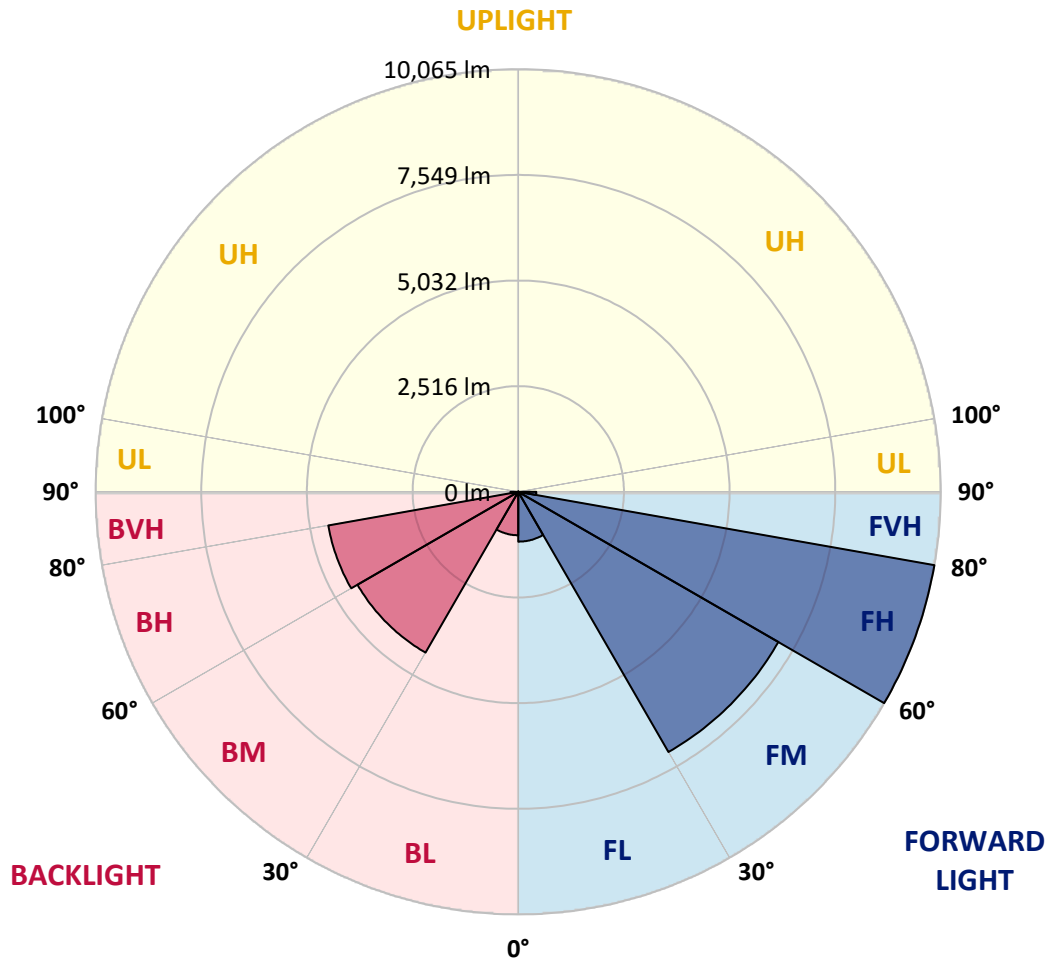
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1186.9	4.1			
FM (30°-60°)	7155.7	24.6			
FH (60°-80°)	10064.7	34.6			G4/12000
FVH (80°-90°)	429.1	1.5			G3/500
BL (0°-30°)	1034.9	3.6	B3/2500		
BM (30°-60°)	4420.7	15.2	B3/5000		
BH (60°-80°)	4594.3	15.8	B4/5000		G4/5000
BVH (80°-90°)	184.3	0.6			G2/225
UL (90°-100°)	7.4	0.0		U1/10	
UH (100°-180°)	2.0	0.0		U1/10	

**BUG Rating: B4-U1-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2314.3	2314.3	2314.3	2314.3	2314.3	2314.3	2314.3	2314.3	2314.3	2314.3	2314.3
2.5°	2340.5	2337.3	2335.1	2349.3	2308.8	2325.2	2314.3	2328.5	2325.2	2331.8	2332.9
5°	2357.0	2351.5	2343.8	2359.1	2335.1	2346.0	2334.0	2340.5	2319.7	2337.3	2339.4
7.5°	2394.2	2378.8	2377.7	2382.1	2365.7	2373.4	2352.6	2360.2	2349.3	2342.7	2349.3
10°	2450.0	2436.8	2422.6	2431.4	2404.0	2413.9	2392.0	2398.5	2393.1	2378.8	2392.0
12.5°	2488.3	2492.6	2482.8	2489.4	2465.3	2456.5	2448.9	2447.8	2444.5	2423.7	2420.4
15°	2573.6	2575.8	2558.3	2562.7	2557.2	2552.8	2541.9	2533.1	2515.6	2502.5	2493.7
17.5°	2685.2	2673.2	2656.8	2661.1	2676.5	2656.8	2650.2	2633.8	2608.6	2586.7	2582.4
20°	2802.3	2794.6	2779.3	2788.1	2787.0	2773.9	2777.1	2749.8	2713.7	2695.1	2680.8
22.5°	2932.5	2921.6	2910.6	2927.0	2913.9	2905.2	2901.9	2883.3	2838.4	2817.6	2814.3
25°	3062.7	3057.3	3064.9	3059.4	3040.8	3034.3	3038.7	3032.1	2979.6	2954.4	2939.1
27.5°	3225.8	3212.6	3224.7	3218.1	3198.4	3199.5	3200.6	3201.7	3142.6	3109.8	3087.9
30°	3411.8	3407.4	3422.7	3401.9	3383.3	3395.4	3405.2	3383.3	3331.9	3283.8	3276.1
32.5°	3653.6	3626.2	3643.8	3617.5	3589.0	3617.5	3635.0	3591.2	3549.7	3488.4	3499.3
35°	3921.7	3912.9	3912.9	3879.0	3863.7	3908.6	3926.1	3883.4	3818.8	3765.2	3752.1
37.5°	4206.2	4214.9	4242.3	4228.1	4213.8	4241.2	4280.6	4223.7	4140.5	4083.6	4068.3
40°	4583.7	4605.6	4624.2	4605.6	4589.2	4606.7	4651.5	4577.1	4519.1	4488.5	4455.7
42.5°	4989.6	5026.9	5014.8	5017.0	5031.2	5056.4	5101.3	5033.4	4966.7	4965.6	4917.4
45°	5538.9	5538.9	5513.8	5537.9	5535.7	5598.0	5617.7	5580.5	5524.7	5508.3	5466.7
47.5°	6052.1	6105.8	6095.9	6130.9	6103.6	6156.1	6222.8	6191.1	6126.5	6068.6	6059.8
50°	6767.8	6754.6	6741.5	6794.0	6789.6	6825.8	6887.0	6867.3	6777.6	6712.0	6699.9
52.5°	7396.9	7465.9	7449.5	7528.2	7484.5	7535.9	7609.2	7605.9	7496.5	7432.0	7413.4
55°	8191.3	8237.3	8234.0	8315.0	8254.8	8322.6	8383.9	8390.5	8271.2	8179.3	8207.8
57.5°	9018.6	9056.9	9035.0	9101.7	9042.6	9135.7	9172.9	9148.8	9078.8	8962.8	9005.4
60°	9846.9	9879.7	9904.9	9910.4	9876.4	9931.2	9966.2	9987.0	9876.4	9744.0	9795.5
62.5°	10688.4	10725.6	10703.7	10712.4	10618.3	10692.7	10736.5	10742.0	10615.0	10498.0	10534.1
65°	11574.7	11626.1	11547.3	11494.8	11378.8	11377.7	11435.7	11445.6	11355.8	11272.7	11258.4
67.5°	12672.2	12695.2	12526.6	12350.5	12154.6	12111.9	12152.4	12175.4	12226.8	12224.6	12160.1
68°	12795.8	12791.4	12620.7	12410.7	12200.6	12151.3	12171.0	12200.6	12234.5	12241.1	12163.4
70°	12514.6	12461.0	12363.6	12098.8	11890.9	11761.8	11692.8	11747.6	11655.6	11656.7	11511.2
72.5°	11116.2	11109.6	10930.2	10798.9	10613.9	10399.5	10301.0	10299.9	10308.7	10245.2	10095.3
75°	9004.3	9013.1	8804.1	8713.3	8656.4	8615.9	8636.7	8701.2	8707.8	8706.7	8654.2
77.5°	6279.7	6315.8	6260.0	6112.3	6271.0	6406.7	6668.2	6801.7	6759.0	6887.0	6968.0
80°	3291.4	3363.6	3365.8	3469.8	3597.8	3721.4	3946.9	4149.3	4000.5	3934.8	3867.0
82.5°	865.5	891.8	931.2	871.0	889.6	908.2	1083.3	1066.9	984.8	1028.6	1094.2
85°	247.3	255.0	244.0	221.0	202.4	186.0	190.4	160.9	140.1	139.0	134.6
87.5°	174.0	187.1	165.2	142.2	128.0	119.3	114.9	97.4	78.8	68.9	54.7
90°	81.0	79.9	68.9	53.6	47.1	44.9	44.9	35.0	19.7	12.0	10.9
92.5°	33.9	35.0	28.4	23.0	19.7	15.3	12.0	7.7	4.4	2.2	1.1
95°	12.0	13.1	10.9	8.8	7.7	6.6	5.5	4.4	2.2	1.1	1.1
97.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.2	2.2	1.1	1.1
100°	0.0	0.0	0.0	1.1	2.2	2.2	2.2	2.2	1.1	1.1	1.1
102.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
105°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
145°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
150°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
160°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
165°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
167.5°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
170°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
172.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
175°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
177.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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°	2314.3	2314.3	2314.3	2314.3	2314.3	2314.3	2314.3	2314.3	2314.3	2314.3
2.5°	2330.7	2325.2	2323.0	2295.7	2303.3	2286.9	2325.2	2314.3	2312.1	2327.4
5°	2336.2	2311.0	2326.3	2308.8	2313.2	2289.1	2319.7	2306.6	2307.7	2315.4
7.5°	2339.4	2325.2	2340.5	2309.9	2321.9	2313.2	2335.1	2321.9	2335.1	2341.6
10°	2372.3	2365.7	2354.8	2346.0	2354.8	2334.0	2361.3	2359.1	2366.8	2386.5
12.5°	2417.1	2409.5	2398.5	2383.2	2389.8	2382.1	2402.9	2405.1	2419.3	2429.2
15°	2483.9	2474.0	2468.6	2453.2	2455.4	2450.0	2462.0	2464.2	2492.6	2489.4
17.5°	2578.0	2567.0	2571.4	2557.2	2551.7	2538.6	2516.7	2509.0	2543.0	2552.8
20°	2680.8	2668.8	2674.3	2662.2	2560.5	2353.7	2492.6	2587.8	2515.6	2510.1
22.5°	2797.9	2784.8	2789.2	2770.6	2644.7	2257.4	1964.1	1940.1	2215.8	2327.4
25°	2927.0	2909.5	2907.3	2883.3	2469.7	2044.0	2011.2	1968.5	1767.2	1607.4
27.5°	3086.8	3060.5	3047.4	2684.1	2452.2	2123.9	2074.6	1922.5	1630.4	1640.2
30°	3259.7	3221.4	2975.2	2735.6	2580.2	2218.0	2152.3	1685.1	1687.3	1682.9
32.5°	3456.6	3371.3	2915.0	2893.1	2733.4	2318.7	1786.9	1767.2	1769.4	1775.9
35°	3714.9	3129.5	3117.4	3118.5	2920.5	2243.2	1893.0	1874.4	1876.6	1881.0
37.5°	3769.6	3373.5	3375.7	3350.5	3119.6	2049.5	2022.1	2021.0	2016.7	2012.3
40°	3813.4	3681.0	3649.2	3608.7	2892.0	2207.0	2198.3	2191.7	2195.0	2203.8
42.5°	4155.9	4056.3	4025.6	3977.5	2966.4	2445.6	2417.1	2409.5	2418.2	2413.9
45°	4611.0	4527.9	4467.7	3677.7	3277.2	2704.9	2681.9	2672.1	2675.4	2702.7
47.5°	5092.5	5043.3	4859.4	3973.1	3639.4	3011.3	2988.3	2973.0	2978.5	2971.9
50°	5616.6	5571.8	4498.3	4418.5	4039.9	3341.8	3307.8	3302.4	3304.5	3303.5
52.5°	6185.6	5247.9	4985.3	4902.1	4462.2	3687.5	3675.5	3645.9	3652.5	3645.9
55°	6853.1	5528.0	5521.4	5424.1	4937.1	4089.1	4074.9	4033.3	3771.8	4000.5
57.5°	7486.7	6063.1	6063.1	5969.0	5423.0	4488.5	4465.5	4434.9	2680.8	2162.2
60°	8180.4	6599.2	6583.9	6506.2	5891.3	4869.3	3957.8	3949.0	1619.4	1624.9
62.5°	8780.0	7077.4	7104.8	7032.6	6342.1	3645.9	1833.9	1796.7	159.8	246.2
65°	9451.9	7605.9	7638.8	7564.4	6830.1	3867.0	1990.4	1971.8	36.1	32.8
67.5°	10213.5	8133.3	8058.9	7976.9	7115.7	3981.9	2068.1	2051.7	9.8	6.6
68°	10220.0	8122.4	8026.1	7970.3	7088.4	3960.0	2061.5	2046.2	9.8	6.6
70°	9694.8	7713.2	7616.9	7631.1	6749.2	3787.1	1976.2	1947.7	9.8	6.6
72.5°	8505.4	6864.1	6755.7	6679.1	5985.4	3366.9	1771.5	1717.9	9.8	6.6
75°	7277.7	5816.9	5637.4	5468.9	4815.7	2755.2	1453.1	1392.9	9.8	6.6
77.5°	5735.9	4433.8	4178.8	4068.3	3618.6	2035.3	1080.0	1014.3	9.8	5.5
80°	3170.0	2544.1	2327.4	2259.6	2069.2	1196.0	619.3	579.9	8.8	5.5
82.5°	819.6	615.0	536.2	517.6	485.8	283.4	151.0	143.3	7.7	4.4
85°	117.1	86.4	95.2	112.7	108.3	73.3	52.5	44.9	6.6	3.3
87.5°	61.3	51.4	60.2	67.8	68.9	42.7	21.9	12.0	3.3	0.0
90°	9.8	9.8	10.9	12.0	12.0	5.5	4.4	0.0	0.0	0.0
92.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	1.1	1.1	1.1	1.1	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	1.1	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	2.2	1.1	1.1	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°
110°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
115°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	1.1	1.1	1.1	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)