

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: P579594

Luminaire Tested: **CST-CA6-230-760-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579594  
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-CA6-230-760-U-T5-HSS-HM-EX90  
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: 27725 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U2 - G4

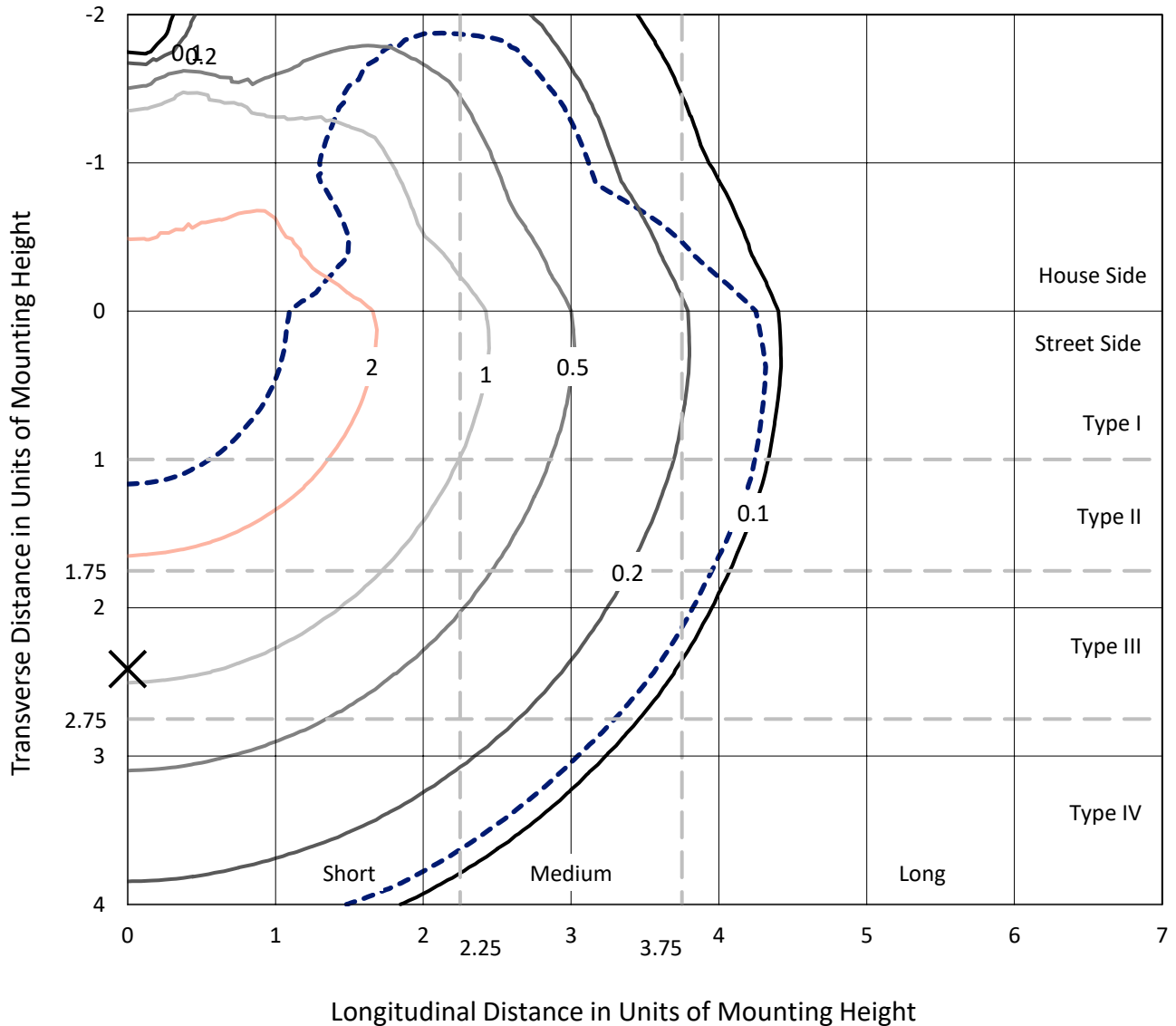
Input Watts (W): 227.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

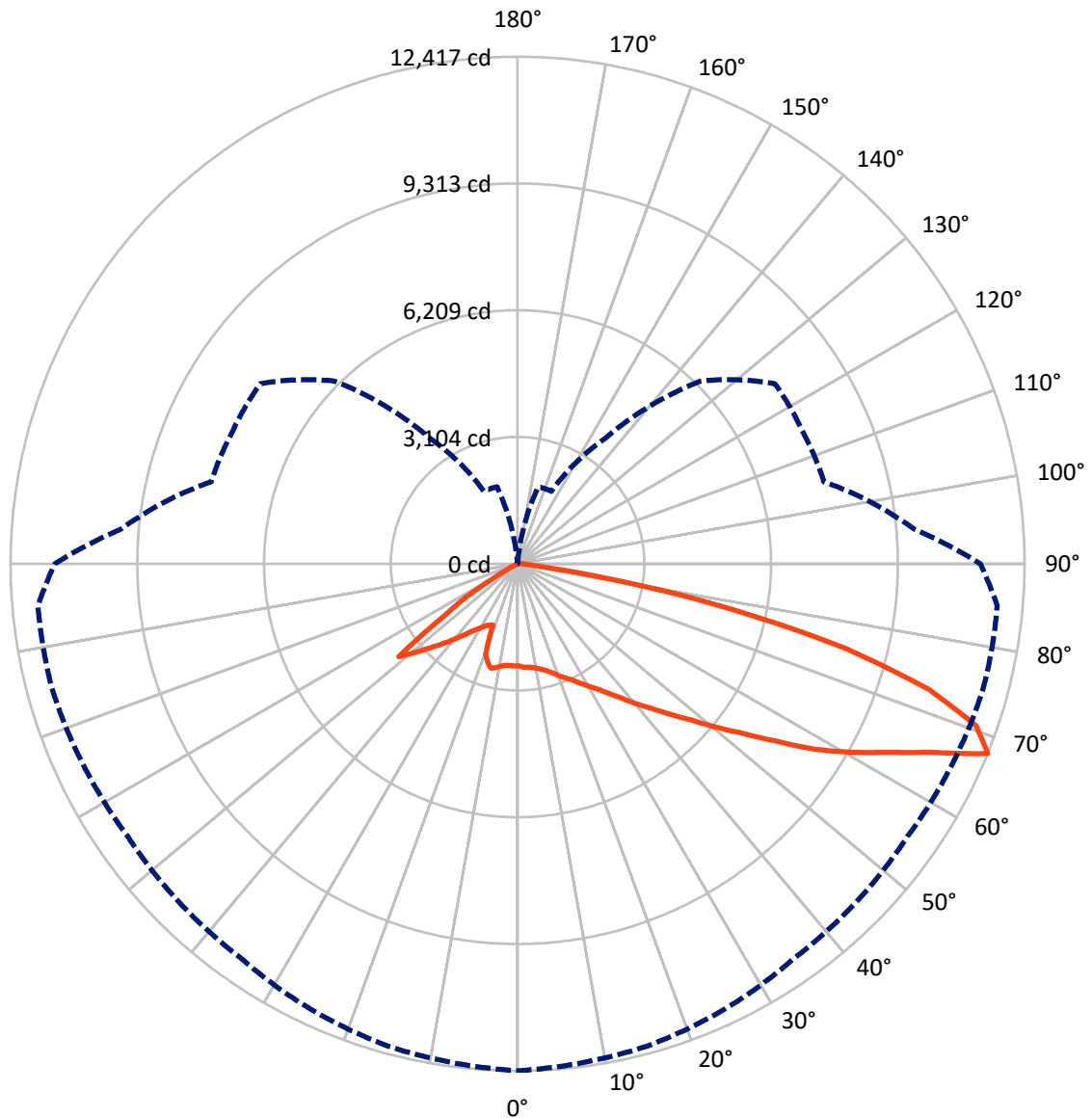
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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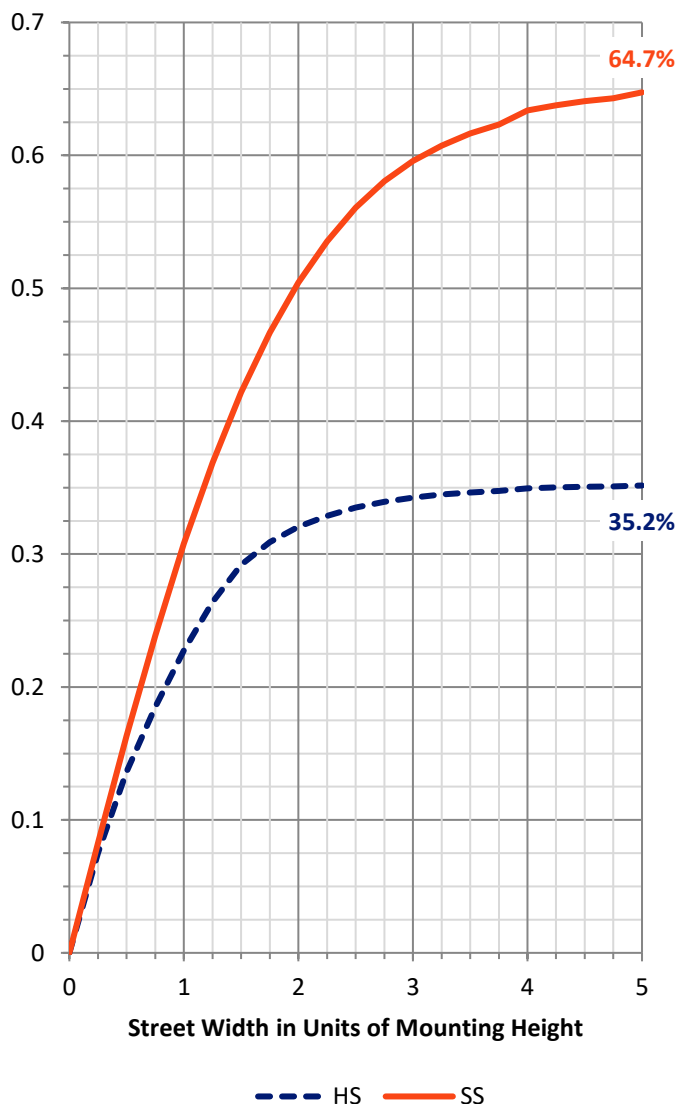
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9759.1	0.6	9759.7
	% Fixture	35.2	0.0	35.2
<b>Street Side</b>	Lumens	17945.7	19.6	17965.3
	% Fixture	64.7	0.1	64.8
<b>Total</b>	Lumens	27704.9	20.2	27725.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.4	0.9
10°-20°	746.7	2.7
20°-30°	1294.6	4.7
30°-40°	2124.2	7.7
40°-50°	3543.2	12.8
50°-60°	5734.3	20.7
60°-70°	7915.2	28.5
70°-80°	5710.5	20.6
80°-90°	395.8	1.4
90°-100°	17.2	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°	27704.9	99.9
0°-180°	27725.0	100.0

**Coefficient of Utilization**

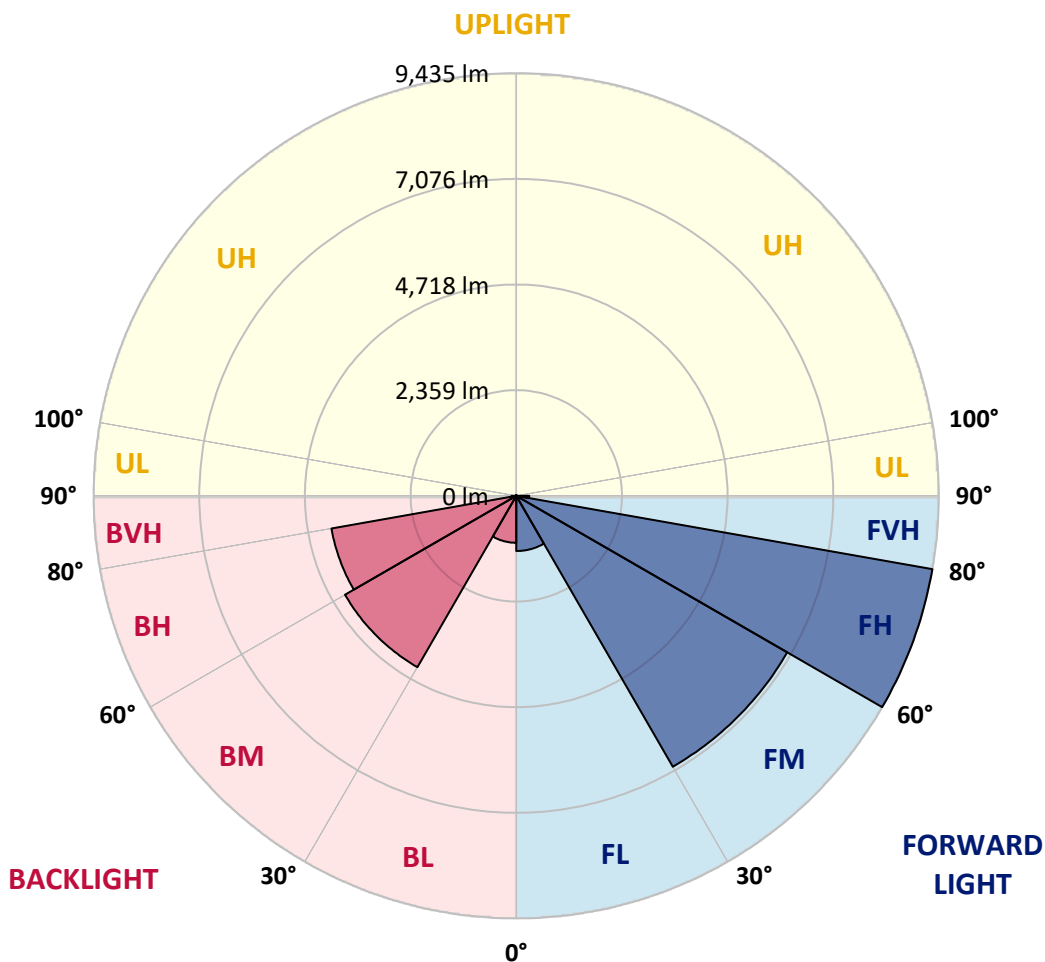


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1232.9	4.4			
FM (30°-60°)	6986.0	25.2			
FH (60°-80°)	9435.2	34.0			G4/12000
FVH (80°-90°)	291.6	1.1			G3/500
BL (0°-30°)	1048.8	3.8	B3/2500		
BM (30°-60°)	4415.8	15.9	B3/5000		
BH (60°-80°)	4190.5	15.1	B4/5000		G4/5000
BVH (80°-90°)	104.2	0.4			G2/225
UL (90°-100°)	17.2	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°	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5
2.5°	2536.7	2521.9	2522.9	2537.8	2497.4	2512.3	2495.3	2510.2	2502.8	2508.1	2514.4
5°	2544.1	2526.1	2528.2	2546.3	2514.4	2526.1	2505.9	2514.4	2508.1	2514.4	2515.5
7.5°	2563.3	2545.2	2546.3	2560.1	2527.2	2535.7	2516.6	2520.8	2510.2	2521.9	2518.7
10°	2603.6	2586.6	2580.2	2591.9	2563.3	2564.3	2542.0	2546.3	2530.3	2546.3	2539.9
12.5°	2657.7	2634.4	2636.5	2642.9	2607.8	2610.0	2583.4	2589.8	2563.3	2585.5	2578.1
15°	2723.5	2694.9	2698.0	2708.7	2674.7	2671.5	2647.1	2647.1	2623.8	2640.7	2633.3
17.5°	2814.8	2783.0	2780.8	2788.3	2760.7	2760.7	2733.1	2729.9	2706.5	2720.3	2718.2
20°	2933.7	2897.6	2891.2	2905.0	2870.0	2874.2	2839.2	2836.0	2810.6	2819.0	2820.1
22.5°	3040.9	3012.2	3011.2	3032.4	2991.0	2996.3	2964.5	2956.0	2934.7	2946.4	2949.6
25°	3164.0	3159.8	3156.6	3164.0	3122.6	3122.6	3100.3	3092.9	3079.1	3087.6	3096.1
27.5°	3319.0	3316.8	3308.3	3309.4	3274.4	3279.7	3255.3	3251.0	3244.7	3243.6	3239.4
30°	3489.8	3480.3	3468.6	3476.0	3460.1	3465.4	3444.2	3430.4	3428.3	3429.3	3423.0
32.5°	3679.8	3667.1	3659.7	3672.4	3678.8	3693.6	3692.6	3654.4	3654.4	3670.3	3641.6
35°	3915.5	3895.3	3901.7	3918.6	3931.4	3969.6	3963.2	3936.7	3945.2	3952.6	3918.6
37.5°	4192.5	4178.7	4207.3	4239.2	4240.2	4294.4	4281.6	4288.0	4286.9	4277.4	4255.1
40°	4524.7	4502.4	4532.1	4556.5	4541.7	4606.4	4604.3	4633.0	4652.1	4685.0	4672.2
42.5°	4854.8	4837.8	4866.5	4919.5	4911.0	4985.3	4996.0	5040.5	5067.1	5118.0	5088.3
45°	5261.3	5251.7	5278.3	5319.7	5348.3	5447.0	5486.3	5505.4	5572.3	5633.8	5564.9
47.5°	5716.6	5729.4	5725.1	5800.5	5864.2	5984.1	6000.0	6061.6	6120.0	6187.9	6121.0
50°	6283.4	6262.2	6281.3	6353.5	6457.5	6544.5	6626.2	6714.3	6771.7	6841.7	6718.6
52.5°	6893.7	6911.8	6954.2	7065.7	7142.1	7245.0	7319.3	7424.4	7480.7	7541.2	7380.9
55°	7663.2	7678.1	7724.8	7839.4	7893.5	8010.3	8061.2	8166.3	8220.5	8247.0	8042.1
57.5°	8565.4	8515.5	8553.7	8613.2	8697.0	8823.3	8837.1	8935.8	8935.8	8969.8	8708.7
60°	9371.0	9337.0	9377.4	9462.3	9495.2	9609.8	9598.1	9678.8	9700.0	9674.6	9362.5
62.5°	10164.9	10171.3	10223.3	10250.9	10238.1	10306.1	10333.7	10418.6	10383.6	10392.1	10032.2
65°	11128.7	11143.5	11138.2	11087.3	10972.6	11106.4	11098.9	11233.7	11242.2	11318.6	10900.5
67.5°	12417.2	12351.4	12231.4	12026.6	11799.5	11720.9	11651.9	11718.8	11804.8	11791.0	11332.4
70°	11916.2	11809.0	11746.4	11568.1	11264.5	11107.4	10964.1	10975.8	11101.1	11112.7	10643.6
72.5°	10534.3	10480.1	10239.2	10083.2	9875.2	9754.2	9581.1	9620.4	9783.9	9811.5	9437.9
75°	8309.6	8259.7	8042.1	7991.2	7888.2	7947.7	7905.2	7921.1	8052.8	7931.8	7707.8
77.5°	5378.1	5389.7	5355.8	5471.5	5467.2	5470.4	5625.4	5641.3	5769.7	5695.4	5478.9
80°	2411.5	2446.5	2529.3	2697.0	2595.1	2650.3	2709.7	2691.7	2821.2	2528.2	2633.3
82.5°	488.2	505.2	476.6	497.8	464.9	481.9	506.3	469.1	464.9	430.9	400.1
85°	251.5	254.7	253.7	248.4	218.6	201.7	194.2	163.5	147.5	144.3	133.7
87.5°	163.5	165.6	160.3	159.2	140.1	128.4	114.6	96.6	80.7	56.3	46.7
90°	99.8	99.8	94.5	89.2	79.6	71.1	57.3	41.4	24.4	9.6	5.3
92.5°	66.9	66.9	64.7	61.6	55.2	47.8	37.1	24.4	11.7	4.2	2.1
95°	42.5	42.5	41.4	40.3	36.1	30.8	23.4	14.9	7.4	3.2	1.1
97.5°	27.6	27.6	27.6	26.5	24.4	21.2	15.9	9.6	5.3	2.1	1.1
100°	17.0	18.0	17.0	17.0	15.9	13.8	10.6	6.4	4.2	2.1	1.1
102.5°	9.6	9.6	10.6	10.6	9.6	8.5	6.4	5.3	3.2	2.1	1.1
105°	4.2	4.2	5.3	5.3	5.3	4.2	4.2	3.2	2.1	2.1	1.1
107.5°	1.1	1.1	1.1	2.1	3.2	3.2	3.2	3.2	2.1	1.1	1.1
110°	0.0	0.0	0.0	1.1	1.1	2.1	2.1	2.1	2.1	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°	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5
2.5°	2508.1	2495.3	2504.9	2489.0	2484.7	2470.9	2497.4	2501.7	2499.6	2503.8
5°	2510.2	2494.3	2505.9	2490.0	2489.0	2474.1	2501.7	2502.8	2495.3	2498.5
7.5°	2516.6	2501.7	2510.2	2492.1	2494.3	2476.2	2508.1	2507.0	2502.8	2510.2
10°	2539.9	2522.9	2526.1	2507.0	2512.3	2493.2	2532.5	2534.6	2530.3	2544.1
12.5°	2580.2	2556.9	2564.3	2542.0	2546.3	2527.2	2574.9	2578.1	2578.1	2600.4
15°	2635.4	2611.0	2626.9	2598.3	2599.3	2570.7	2606.8	2606.8	2611.0	2641.8
17.5°	2716.1	2686.4	2707.6	2681.1	2515.5	2452.9	2576.0	2651.3	2526.1	2515.5
20°	2815.9	2802.1	2813.7	2770.2	2501.7	2215.1	1992.2	1980.6	2227.9	2351.0
22.5°	2937.9	2924.1	2929.4	2874.2	2233.2	2031.5	2028.3	2007.1	1698.2	1613.3
25°	3081.2	3073.8	3062.1	2599.3	2308.5	2115.3	2089.9	1812.9	1635.6	1651.5
27.5°	3235.1	3212.8	2819.0	2700.2	2424.2	2199.2	2054.8	1692.9	1686.5	1701.4
30°	3407.1	3289.2	2885.9	2845.6	2559.0	2303.2	1788.4	1767.2	1767.2	1790.6
32.5°	3625.7	3071.7	3071.7	3050.4	2725.6	2021.9	1882.9	1870.2	1885.0	1894.6
35°	3592.8	3304.1	3338.1	3328.5	2951.7	2059.1	2034.7	2013.5	2016.6	2016.6
37.5°	3603.4	3615.1	3655.4	3614.0	2574.9	2220.4	2181.2	2176.9	2180.1	2187.5
40°	3936.7	3943.1	3957.9	3866.6	2767.0	2408.3	2354.2	2343.5	2354.2	2370.1
42.5°	4295.4	4313.5	4330.5	3516.4	3035.6	2621.6	2567.5	2547.3	2566.4	2583.4
45°	4720.0	4747.6	4487.5	3827.4	3339.1	2864.7	2807.4	2783.0	2794.6	2809.5
47.5°	5197.6	5241.1	4231.8	4223.3	3695.8	3152.3	3086.5	3039.8	3057.9	3056.8
50°	5736.8	5008.7	4675.4	4670.1	4093.8	3472.9	3404.9	3362.5	3376.3	3365.7
52.5°	6319.5	5145.6	5156.2	5155.2	4509.8	3817.8	3755.2	3702.1	3592.8	3693.6
55°	6916.0	5619.0	5659.3	5653.0	4946.1	4174.4	4107.6	4057.7	2651.3	2239.5
57.5°	7509.3	6113.6	6126.3	6141.2	5398.2	4518.3	4224.3	3880.4	1512.5	1505.0
60°	8095.2	6584.9	6610.3	6618.8	5642.3	3740.3	1726.9	1758.7	457.5	546.6
62.5°	8702.3	7049.7	7073.1	7065.7	5885.4	3478.2	1813.9	1777.8	42.5	39.3
65°	9477.1	7632.4	7599.5	7575.1	6268.6	3711.7	1948.7	1939.2	13.8	9.6
67.5°	9748.8	7765.1	7698.2	7689.8	6323.7	3761.6	1959.3	1951.9	13.8	9.6
70°	9133.2	7261.0	7146.3	7149.5	5884.3	3518.5	1827.7	1817.1	12.7	9.6
72.5°	7998.6	6412.9	6365.1	6112.5	5095.7	3095.0	1620.7	1580.4	12.7	8.5
75°	6566.8	5180.6	5074.5	4791.1	4055.6	2460.3	1272.6	1220.6	11.7	7.4
77.5°	4558.7	3633.1	3430.4	3141.7	2712.9	1631.4	855.5	788.6	10.6	7.4
80°	2066.5	1491.3	1498.7	1148.4	920.2	553.0	271.7	246.2	9.6	6.4
82.5°	359.8	265.3	249.4	240.9	200.6	135.9	82.8	71.1	8.5	4.2
85°	125.2	100.8	111.4	131.6	116.8	81.7	50.9	48.8	5.3	2.1
87.5°	42.5	44.6	52.0	62.6	55.2	31.8	19.1	13.8	1.1	0.0
90°	4.2	5.3	5.3	5.3	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)