

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: P522231

Luminaire Tested: **CST-CA8-330-760-U-T5R-HSS-HM-EX120**

Issue Date: 5/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522231  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-894-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 5/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA8-330-760-U-T5R-HSS-HM-EX120  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37587.1 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U2 - G5

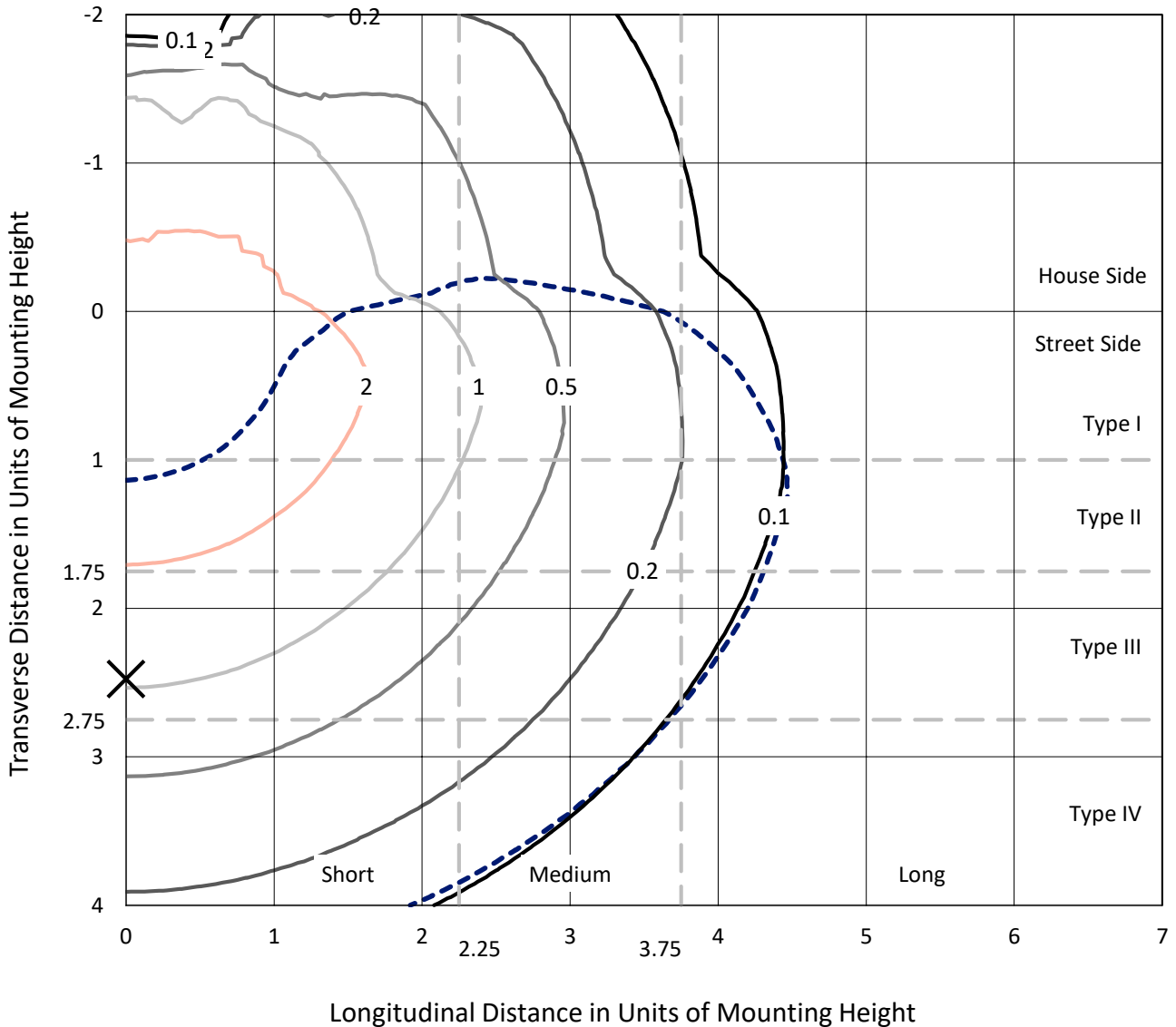
Input Watts (W): 331.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

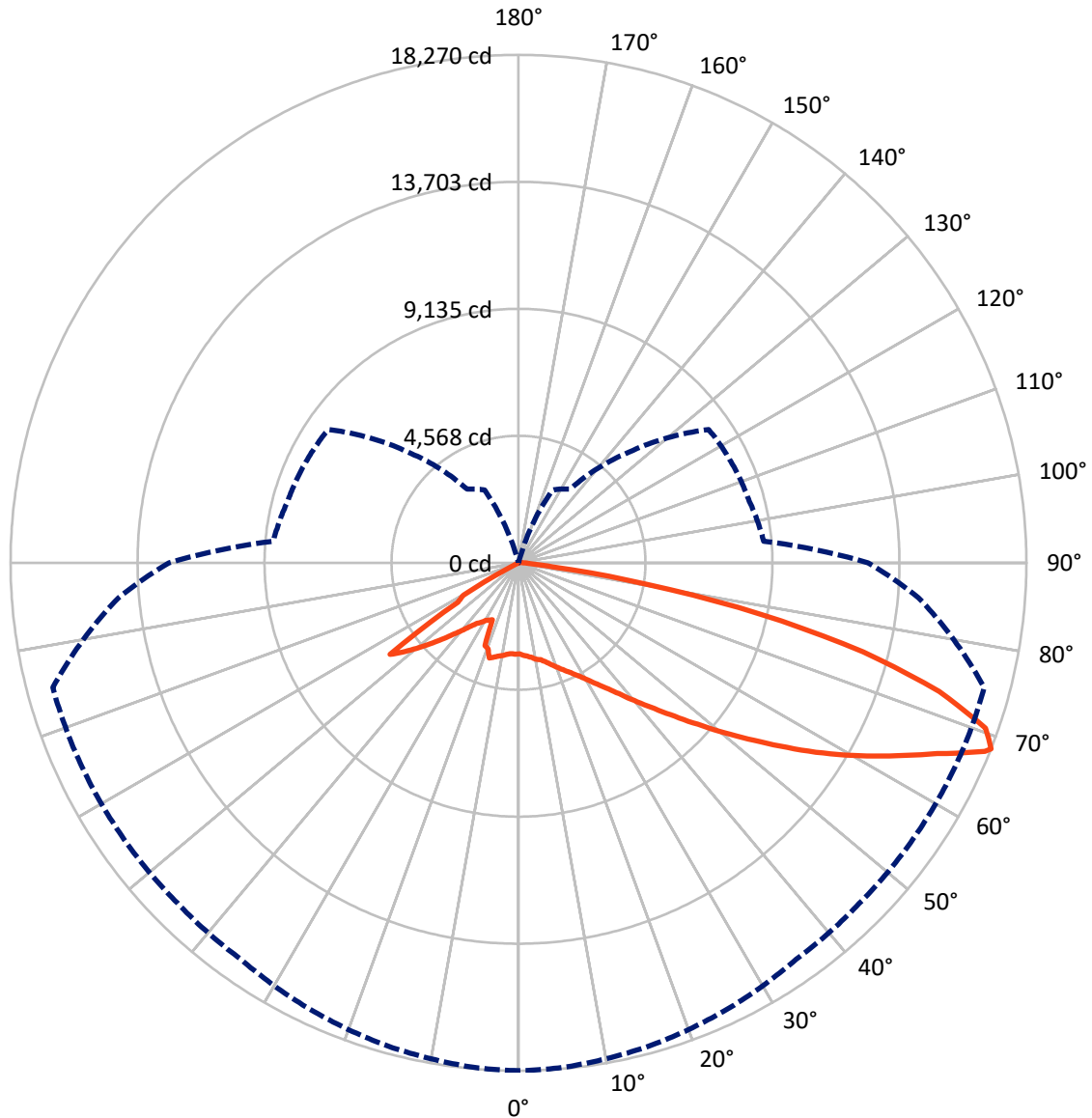
× Max cd  
 - - - 1/2 Max cd



Based on 30 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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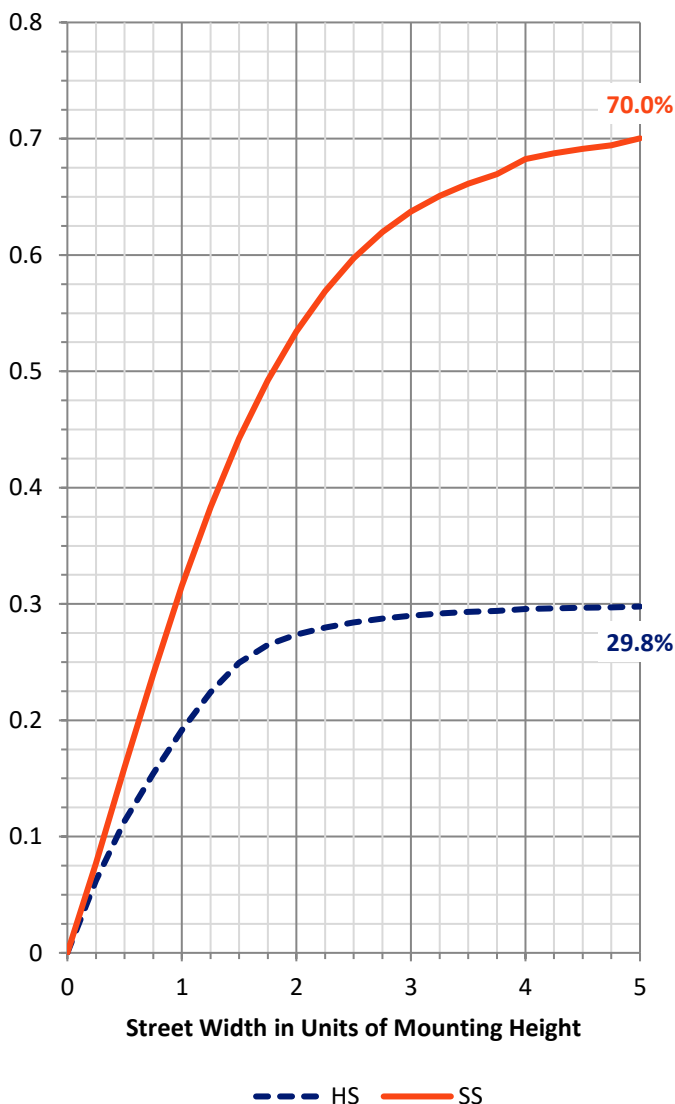
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11204.3	1.8	11206.0
	% Fixture	29.8	0.0	29.8
<b>Street Side</b>	Lumens	26365.6	15.4	26381.0
	% Fixture	70.1	0.0	70.2
<b>Total</b>	Lumens	37569.9	17.2	37587.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.0	0.8
10°-20°	1012.2	2.7
20°-30°	1733.8	4.6
30°-40°	2812.7	7.5
40°-50°	4743.5	12.6
50°-60°	7731.9	20.6
60°-70°	10369.8	27.6
70°-80°	8054.6	21.4
80°-90°	793.3	2.1
90°-100°	15.1	0.0
100°-110°	0.9	0.0
110°-120°	0.2	0.0
120°-130°	0.2	0.0
130°-140°	0.2	0.0
140°-150°	0.2	0.0
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	37569.9	100.0
0°-180°	37587.1	100.0

**Coefficient of Utilization**

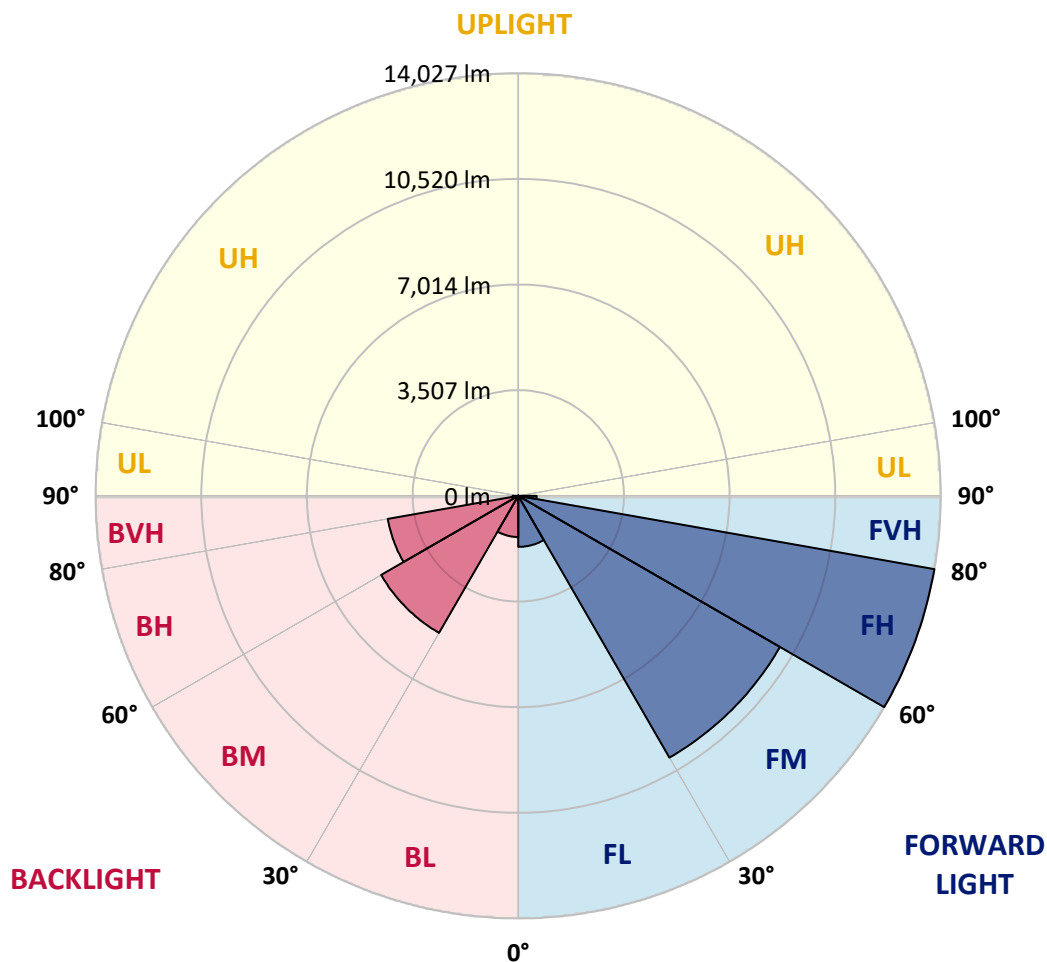


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1695.4	4.5			
FM	(30°-60°)	10033.3	26.7			
FH	(60°-80°)	14027.0	37.3			G5
FVH	(80°-90°)	609.9	1.6			G4/750
BL	(0°-30°)	1368.7	3.6	B3/2500		
BM	(30°-60°)	5254.8	14.0	B4/8500		
BH	(60°-80°)	4397.4	11.7	B4/5000		G4/5000
BVH	(80°-90°)	183.4	0.5			G2/225
UL	(90°-100°)	15.1	0.0		U2/50	
UH	(100°-180°)	2.1	0.0		U1/10	

**BUG Rating: B4-U2-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9
2.5°	3331.3	3322.0	3320.4	3339.1	3280.0	3309.5	3283.1	3304.9	3290.9	3301.8	3303.3
5°	3376.4	3359.3	3348.4	3370.2	3332.9	3346.8	3317.3	3326.6	3287.8	3309.5	3312.6
7.5°	3441.7	3413.7	3410.6	3416.8	3384.2	3395.0	3346.8	3357.7	3329.7	3317.3	3328.2
10°	3530.3	3503.8	3483.6	3497.6	3454.1	3460.3	3409.0	3410.6	3390.4	3367.1	3385.7
12.5°	3580.0	3583.1	3573.8	3584.7	3548.9	3528.7	3493.0	3480.5	3460.3	3432.3	3423.0
15°	3704.4	3698.2	3679.5	3696.6	3691.9	3673.3	3629.8	3601.8	3558.3	3542.7	3527.2
17.5°	3856.7	3836.5	3821.0	3842.7	3866.0	3827.2	3785.2	3746.4	3688.8	3657.7	3639.1
20°	4016.8	4002.8	3987.3	4021.5	4029.3	3999.7	3968.6	3911.1	3844.3	3803.9	3765.0
22.5°	4195.6	4167.6	4172.3	4217.4	4203.4	4189.4	4149.0	4102.3	4021.5	3970.2	3858.3
25°	4380.6	4365.0	4386.8	4407.0	4396.1	4366.6	4346.4	4312.2	4222.0	4159.8	3996.6
27.5°	4610.7	4585.8	4613.8	4621.5	4612.2	4604.4	4576.5	4550.0	4452.1	4382.1	4178.5
30°	4881.1	4851.6	4896.7	4885.8	4876.5	4882.7	4865.6	4808.1	4721.0	4626.2	4422.6
32.5°	5202.9	5164.1	5215.4	5192.0	5170.3	5213.8	5173.4	5119.0	5016.4	4906.0	4707.0
35°	5576.0	5577.6	5604.0	5565.1	5557.3	5604.0	5577.6	5510.7	5415.9	5300.9	5017.9
37.5°	6028.4	6015.9	6082.8	6064.1	6036.1	6098.3	6106.1	6022.1	5851.1	5737.7	5403.5
40°	6578.7	6575.5	6597.3	6600.4	6592.6	6622.2	6636.2	6524.2	6413.9	6242.9	5098.8
42.5°	7166.3	7178.7	7217.6	7189.6	7226.9	7265.7	7270.4	7177.1	7018.6	5989.5	5415.9
45°	7872.0	7910.9	7937.3	7931.1	7948.2	8004.1	8008.8	7959.1	7803.6	6488.5	5991.1
47.5°	8681.9	8719.2	8727.0	8776.7	8761.2	8840.5	8829.6	8831.1	8664.8	7183.4	6617.5
50°	9613.0	9630.1	9693.9	9721.9	9683.0	9790.3	9762.3	9796.5	9591.3	7979.3	7290.6
52.5°	10601.7	10631.2	10657.7	10763.4	10713.6	10806.9	10769.6	10848.9	10611.0	8789.2	8038.3
55°	11725.6	11730.3	11775.4	11882.6	11817.3	11929.3	11874.8	11904.4	11714.7	9684.6	8817.1
57.5°	12916.4	12900.8	12917.9	13003.4	12944.3	13028.3	13006.5	13034.5	12857.3	10626.6	9386.1
60°	14094.7	14071.4	14096.2	14153.7	14072.9	14217.5	14139.8	14166.2	13975.0	11588.8	10197.5
62.5°	15279.2	15262.1	15234.1	15291.6	15173.5	15248.1	15280.8	15237.2	15069.3	12459.3	10903.3
65°	16550.8	16533.7	16431.1	16466.8	16255.4	16219.7	16232.1	16246.1	16134.2	13322.1	11677.4
67.5°	18096.0	18071.1	17878.3	17635.8	17331.2	17264.3	17270.5	17307.8	17323.4	14432.0	12583.7
68°	18270.1	18225.0	18010.5	17729.1	17410.4	17332.7	17324.9	17332.7	17340.5	14441.3	12574.4
70°	17825.5	17808.4	17645.2	17304.7	16978.3	16791.7	16630.1	16623.9	16549.2	13702.9	11879.5
72.5°	15818.6	15796.9	15602.5	15361.6	15159.5	14867.3	14657.4	14669.8	14547.0	12111.1	10398.1
75°	12801.3	12799.8	12566.6	12364.5	12367.6	12345.9	12275.9	12398.7	12271.2	10272.2	8868.4
77.5°	8921.3	8952.4	8936.8	8818.7	8985.0	9215.1	9465.4	9701.7	9628.6	8114.5	7071.4
80°	4660.4	4747.5	5055.2	5069.2	5185.8	5409.7	5580.7	5739.2	5750.1	4604.4	4085.2
82.5°	1238.9	1265.4	1369.5	1340.0	1330.7	1375.7	1413.0	1417.7	1420.8	1200.1	1120.8
85°	385.5	396.4	384.0	366.9	340.4	310.9	303.1	247.2	195.9	161.7	141.5
87.5°	273.6	292.2	264.3	248.7	220.7	209.9	188.1	147.7	115.0	80.8	54.4
90°	141.5	144.6	129.0	110.4	102.6	96.4	82.4	59.1	29.5	15.5	14.0
92.5°	71.5	73.1	63.7	54.4	46.6	40.4	31.1	17.1	9.3	4.7	1.6
95°	28.0	29.5	26.4	23.3	18.7	14.0	12.4	9.3	6.2	3.1	1.6
97.5°	9.3	9.3	9.3	7.8	7.8	7.8	7.8	6.2	4.7	3.1	1.6
100°	0.0	0.0	0.0	1.6	3.1	4.7	4.7	4.7	3.1	1.6	1.6
102.5°	0.0	0.0	0.0	0.0	0.0	1.6	3.1	3.1	3.1	1.6	1.6
105°	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6



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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	0.0	1.6	1.6	1.6
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
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	1.6
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
165°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6
170°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6
175°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6
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°	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9
2.5°	3295.5	3286.2	3290.9	3252.0	3261.3	3236.5	3289.3	3275.3	3269.1	3290.9
5°	3303.3	3269.1	3297.1	3270.7	3275.3	3239.6	3283.1	3266.0	3264.5	3276.9
7.5°	3306.4	3289.3	3315.8	3272.2	3286.2	3272.2	3304.9	3287.8	3303.3	3314.2
10°	3350.0	3340.6	3337.5	3322.0	3332.9	3301.8	3342.2	3342.2	3350.0	3379.5
12.5°	3413.7	3401.3	3393.5	3365.5	3376.4	3367.1	3399.7	3405.9	3419.9	3432.3
15°	3500.7	3479.0	3471.2	3446.3	3454.1	3452.6	3475.9	3477.4	3508.5	3507.0
17.5°	3612.7	3581.6	3590.9	3572.2	3573.8	3561.4	3548.9	3548.9	3576.9	3583.1
20°	3746.4	3569.1	3336.0	3205.4	3182.1	3199.2	3266.0	3376.4	3238.0	3276.9
22.5°	3505.4	3345.3	3334.4	3304.9	3286.2	2869.6	2762.4	2728.2	2906.9	3214.7
25°	3536.5	3468.1	3447.9	3410.6	2860.3	2855.6	2824.5	2773.2	2266.5	2255.6
27.5°	3701.3	3634.4	3601.8	2987.8	2975.3	2973.8	2927.1	2412.6	2296.0	2311.5
30°	3894.0	3816.3	3231.8	3138.5	3127.7	3102.8	2835.4	2383.1	2381.5	2383.1
32.5°	4116.3	3858.3	3325.1	3320.4	3326.6	3250.5	2512.1	2502.7	2501.2	2516.7
35°	4421.0	3580.0	3558.3	3581.6	3548.9	2810.5	2662.9	2658.2	2659.8	2652.0
37.5°	4218.9	3859.8	3855.2	3855.2	3779.0	2875.8	2846.3	2868.1	2864.9	2854.1
40°	4304.4	4198.7	4170.7	4161.4	3194.5	3102.8	3085.7	3113.7	3118.3	3126.1
42.5°	4719.5	4623.1	4609.1	4498.7	3475.9	3446.3	3393.5	3423.0	3419.9	3429.2
45°	5229.3	5164.1	5103.4	3900.2	3855.2	3817.9	3763.5	3797.7	3807.0	3800.8
47.5°	5823.2	5751.7	5313.3	4288.9	4287.3	4257.8	4197.2	4225.1	4220.5	4220.5
50°	6420.1	6342.4	4826.7	4783.2	4767.7	4721.0	4671.3	4675.9	4677.5	4693.0
52.5°	7087.0	5664.6	5342.8	5255.8	5268.2	5237.1	5188.9	3928.2	5165.6	5179.6
55°	6623.7	5928.9	5910.2	5795.2	5824.7	5784.3	5753.2	3875.4	5137.6	5677.0
57.5°	6549.1	6499.4	6483.8	6365.7	6403.0	6019.0	6306.6	4240.7	3553.6	2596.0
60°	7119.6	7066.8	7057.4	6953.3	6950.2	4783.2	5733.0	2908.5	2272.7	2288.2
62.5°	7673.0	7587.5	7610.8	7488.0	5279.1	2914.7	2569.6	65.3	104.2	110.4
65°	8290.2	8147.1	8170.5	8057.0	5445.4	3073.3	2777.9	34.2	29.5	28.0
67.5°	8884.0	8633.7	8514.0	8394.3	5655.3	3236.5	2894.5	9.3	0.0	0.0
68°	8854.4	8590.2	8467.4	8353.9	5633.5	3231.8	2888.3	9.3	0.0	0.0
70°	8355.5	8117.6	8001.0	7914.0	5378.6	3121.4	2771.7	9.3	0.0	0.0
72.5°	7304.6	7172.5	7097.9	7021.7	4778.5	2791.9	2485.6	9.3	0.0	0.0
75°	6207.1	6169.8	6123.2	5955.3	3982.6	2285.1	2042.6	9.3	0.0	0.0
77.5°	4918.4	4916.9	4803.4	4606.0	2998.6	1677.3	1506.3	7.8	0.0	0.0
80°	2659.8	2899.1	2812.1	2711.1	1700.6	912.5	869.0	6.2	0.0	0.0
82.5°	747.7	707.3	679.3	635.8	357.5	199.0	194.3	6.2	0.0	0.0
85°	104.2	115.0	127.5	144.6	82.4	52.9	46.6	3.1	0.0	0.0
87.5°	59.1	66.8	82.4	85.5	31.1	24.9	7.8	0.0	0.0	0.0
90°	12.4	14.0	15.5	15.5	6.2	6.2	0.0	0.0	0.0	0.0
92.5°	0.0	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	1.6	1.6	1.6	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°
110°	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	1.6	1.6	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)