

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: P522141

Luminaire Tested: **CST-CA10-310-760-U-T5R-HSS-HM-EX120**

Issue Date: 5/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522141  
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-CA10-310-760-U-T5R-HSS-HM-EX120  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37205 lumens  
Efficiency: N/A  
Efficacy: 119.1 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U2 - G5

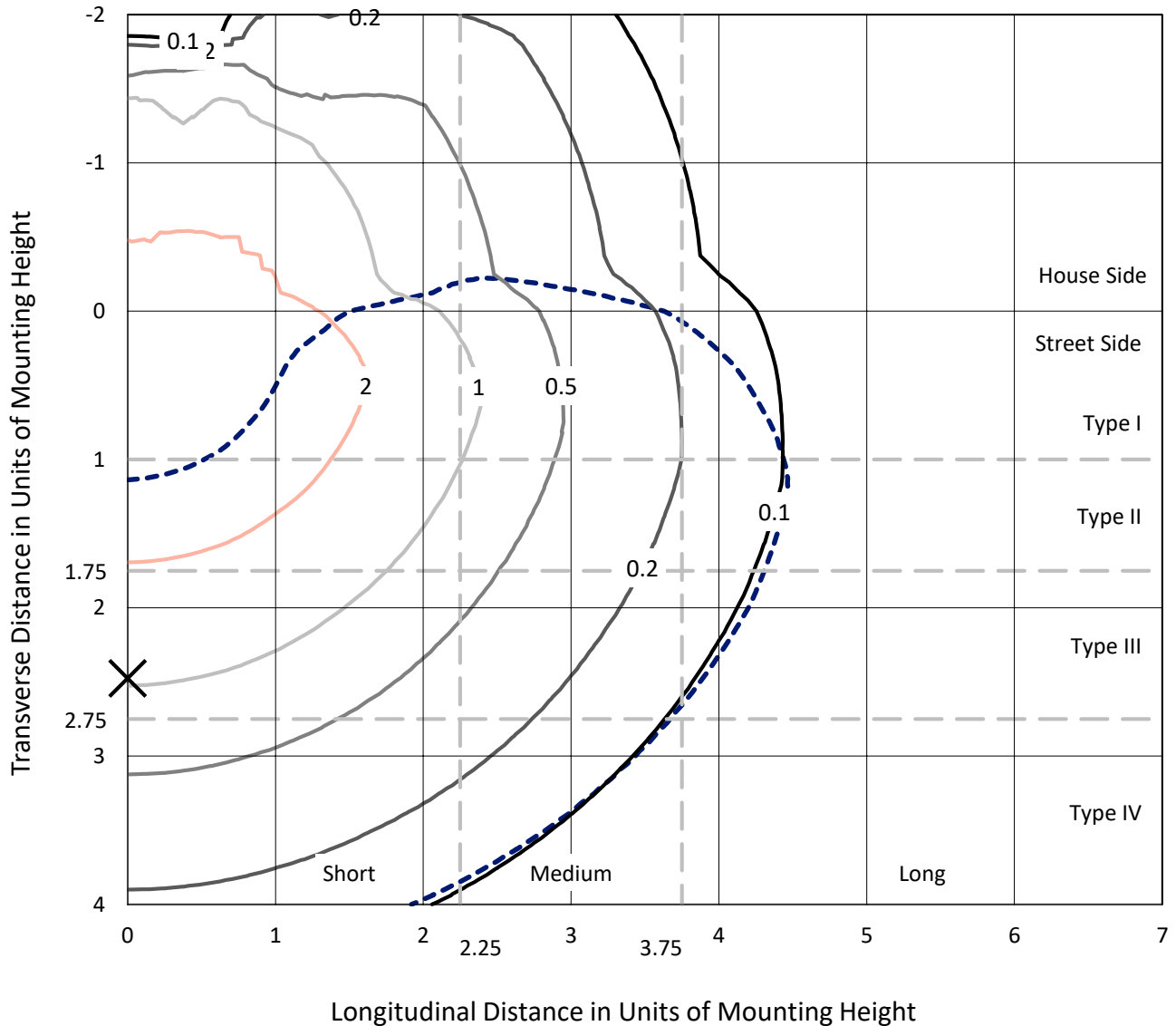
Input Watts (W): 312.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

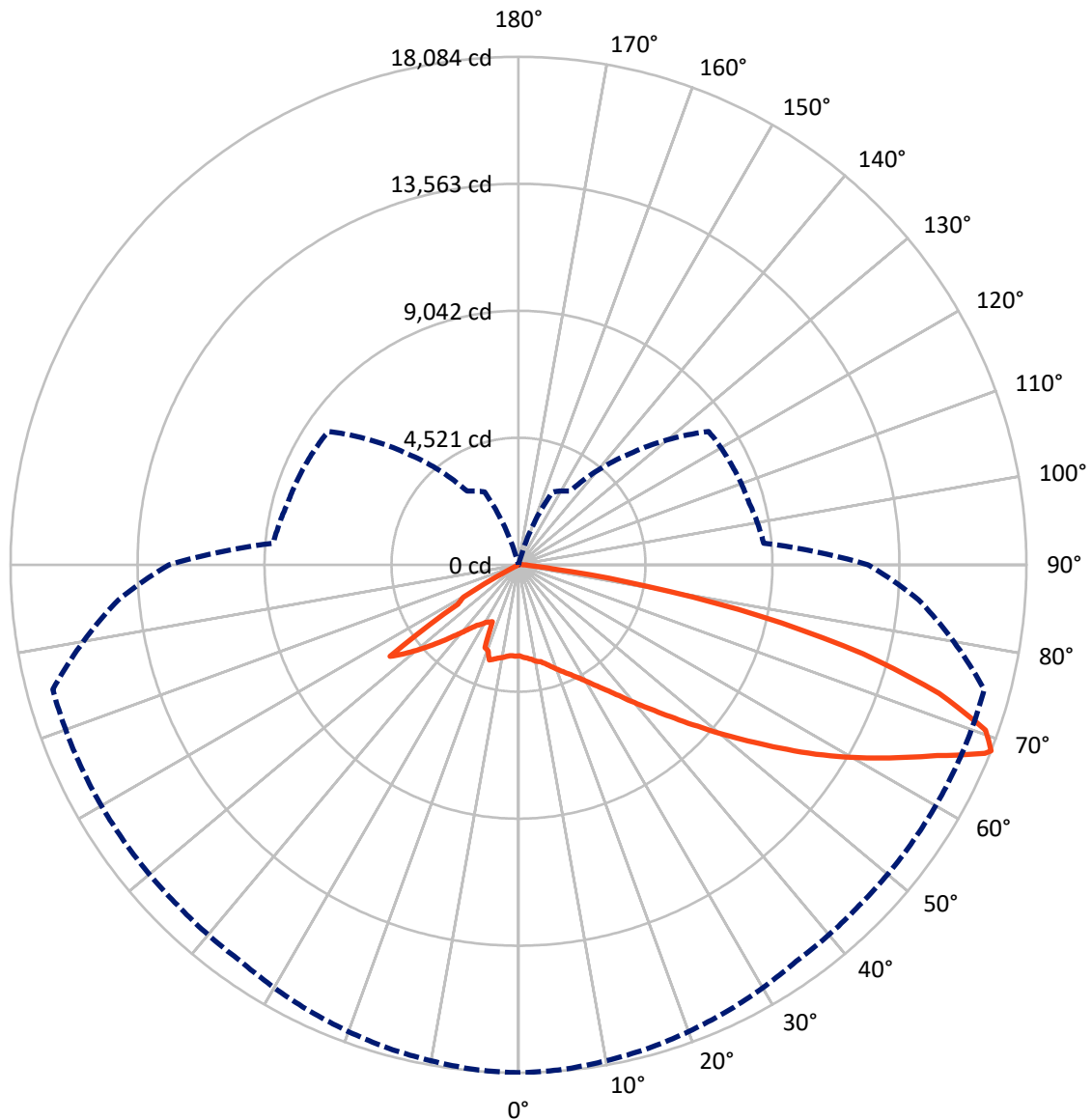
× Max cd  
 - - - 1/2 Max cd



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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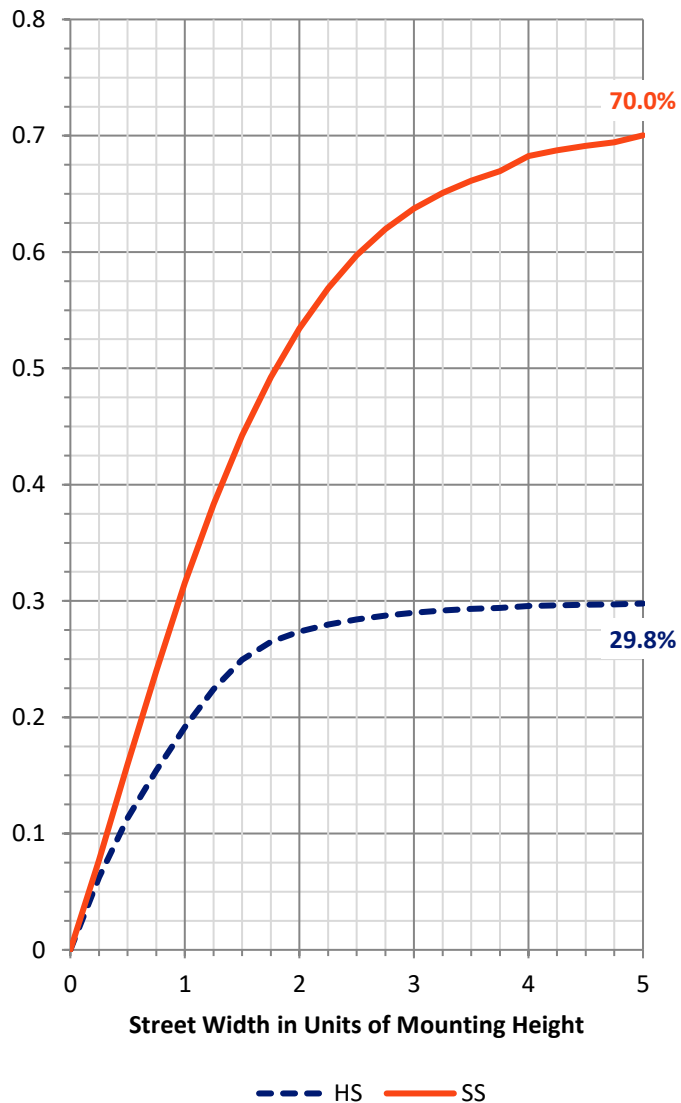
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11090.4	1.7	11092.1
	% Fixture	29.8	0.0	29.8
<b>Street Side</b>	Lumens	26097.7	15.2	26112.9
	% Fixture	70.1	0.0	70.2
<b>Total</b>	Lumens	37188.0	16.9	37205.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.8	0.8
10°-20°	1001.9	2.7
20°-30°	1716.2	4.6
30°-40°	2784.1	7.5
40°-50°	4695.2	12.6
50°-60°	7653.4	20.6
60°-70°	10264.4	27.6
70°-80°	7972.8	21.4
80°-90°	785.2	2.1
90°-100°	14.9	0.0
100°-110°	0.8	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°	37188.0	100.0
0°-180°	37205.0	100.0

**Coefficient of Utilization**

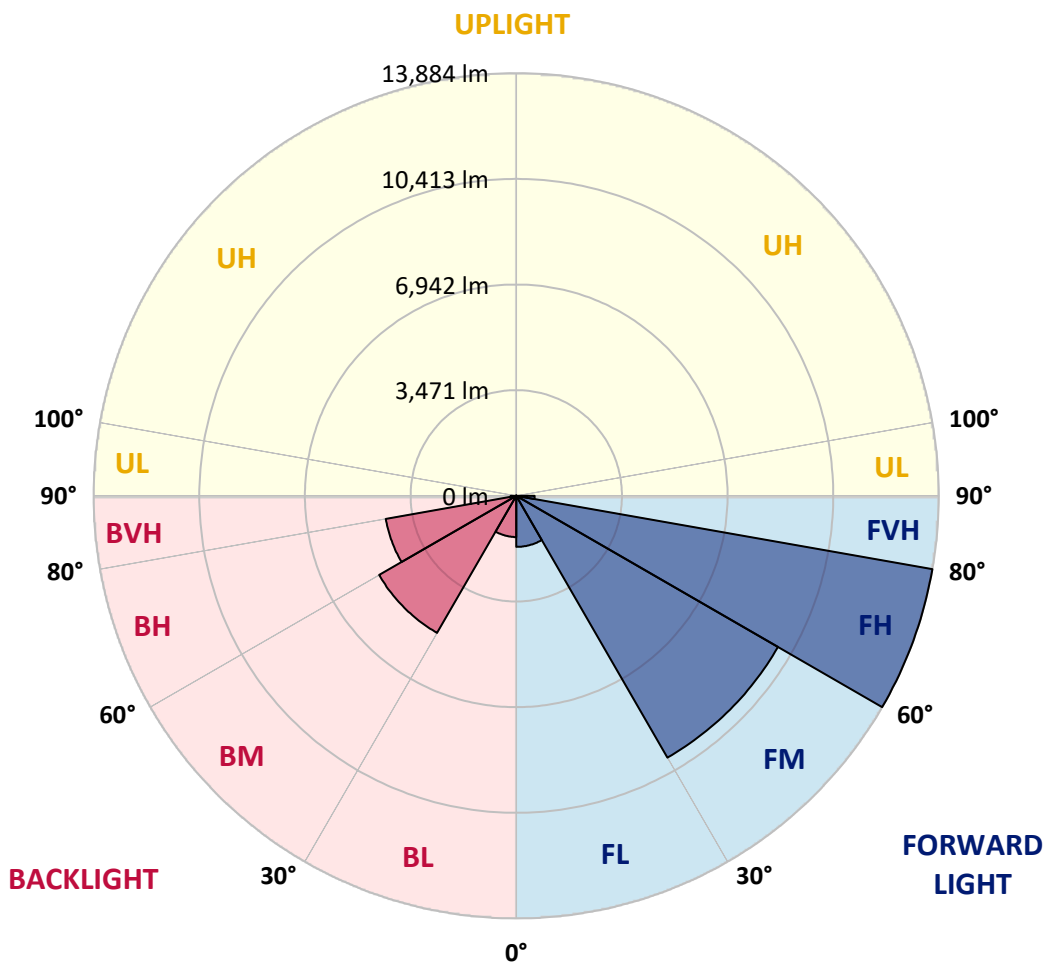


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1678.2	4.5			
FM	(30°-60°)	9931.3	26.7			
FH	(60°-80°)	13884.5	37.3			G5
FVH	(80°-90°)	603.7	1.6			G4/750
BL	(0°-30°)	1354.8	3.6	B3/2500		
BM	(30°-60°)	5201.4	14.0	B4/8500		
BH	(60°-80°)	4352.7	11.7	B4/5000		G4/5000
BVH	(80°-90°)	181.5	0.5			G2/225
UL	(90°-100°)	14.9	0.0		U2/50	
UH	(100°-180°)	2.0	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°	3243.6	3243.6	3243.6	3243.6	3243.6	3243.6	3243.6	3243.6	3243.6	3243.6	3243.6
2.5°	3297.4	3288.2	3286.7	3305.1	3246.7	3275.9	3249.7	3271.3	3257.4	3268.2	3269.7
5°	3342.1	3325.1	3314.4	3335.9	3299.0	3312.8	3283.6	3292.8	3254.4	3275.9	3279.0
7.5°	3406.7	3379.0	3375.9	3382.1	3349.8	3360.5	3312.8	3323.6	3295.9	3283.6	3294.4
10°	3494.4	3468.2	3448.2	3462.1	3419.0	3425.2	3374.4	3375.9	3355.9	3332.8	3351.3
12.5°	3543.6	3546.7	3537.5	3548.3	3512.9	3492.9	3457.5	3445.2	3425.2	3397.5	3388.2
15°	3666.7	3660.6	3642.1	3659.0	3654.4	3636.0	3592.9	3565.2	3522.1	3506.7	3491.3
17.5°	3817.5	3797.5	3782.1	3803.7	3826.8	3788.3	3746.7	3708.3	3651.3	3620.6	3602.1
20°	3976.0	3962.2	3946.8	3980.6	3988.3	3959.1	3928.3	3871.4	3805.2	3765.2	3726.7
22.5°	4153.0	4125.3	4129.9	4174.5	4160.7	4146.8	4106.8	4060.6	3980.6	3929.9	3819.1
25°	4336.1	4320.7	4342.2	4362.2	4351.5	4322.2	4302.2	4268.4	4179.1	4117.6	3956.0
27.5°	4563.8	4539.2	4566.9	4574.6	4565.3	4557.6	4529.9	4503.8	4406.8	4337.6	4136.0
30°	4831.5	4802.3	4846.9	4836.1	4826.9	4833.1	4816.1	4759.2	4673.0	4579.2	4377.6
32.5°	5150.0	5111.6	5162.4	5139.3	5117.7	5160.8	5120.8	5067.0	4965.4	4856.2	4659.2
35°	5519.3	5520.9	5547.0	5508.6	5500.9	5547.0	5520.9	5454.7	5360.8	5247.0	4966.9
37.5°	5967.1	5954.8	6020.9	6002.5	5974.8	6036.3	6044.0	5960.9	5791.7	5679.4	5348.5
40°	6511.8	6508.7	6530.3	6533.3	6525.6	6554.9	6568.7	6457.9	6348.7	6179.4	5046.9
42.5°	7093.4	7105.7	7144.2	7116.5	7153.4	7191.9	7196.5	7104.2	6947.2	5928.6	5360.8
45°	7792.0	7830.5	7856.6	7850.5	7867.4	7922.8	7927.4	7878.2	7724.3	6422.6	5930.2
47.5°	8593.7	8630.6	8638.3	8687.5	8672.1	8750.6	8739.8	8741.4	8576.7	7110.4	6550.3
50°	9515.3	9532.3	9595.4	9623.1	9584.6	9690.8	9663.1	9696.9	9493.8	7898.2	7216.5
52.5°	10494.0	10523.2	10549.4	10654.0	10604.7	10697.1	10660.1	10738.6	10503.2	8699.8	7956.6
55°	11606.4	11611.1	11655.7	11761.9	11697.2	11808.0	11754.2	11783.4	11595.7	9586.1	8727.5
57.5°	12785.1	12769.7	12786.6	12871.3	12812.8	12895.9	12874.3	12902.0	12726.6	10518.6	9290.7
60°	13951.4	13928.4	13953.0	14009.9	13929.9	14073.0	13996.1	14022.2	13833.0	11471.0	10093.9
62.5°	15123.9	15107.0	15079.3	15136.2	15019.3	15093.1	15125.5	15082.4	14916.2	12332.7	10792.5
65°	16382.6	16365.7	16264.1	16299.5	16090.2	16054.8	16067.1	16081.0	15970.2	13186.7	11558.7
67.5°	17912.1	17887.4	17696.6	17456.6	17155.0	17088.8	17095.0	17131.9	17147.3	14285.3	12455.8
68°	18084.4	18039.8	17827.4	17548.9	17233.5	17156.6	17148.9	17156.6	17164.2	14294.6	12446.6
70°	17644.3	17627.4	17465.8	17128.9	16805.7	16621.1	16461.1	16454.9	16381.0	13563.7	11758.8
72.5°	15657.9	15636.3	15444.0	15205.5	15005.4	14716.2	14508.4	14520.8	14399.2	11988.0	10292.4
75°	12671.2	12669.7	12438.9	12238.9	12241.9	12220.4	12151.1	12272.7	12146.5	10167.8	8778.3
77.5°	8830.6	8861.4	8846.0	8729.1	8893.7	9121.4	9369.2	9603.1	9530.7	8032.0	6999.6
80°	4613.0	4699.2	5003.9	5017.7	5133.1	5354.7	5523.9	5680.9	5691.7	4557.6	4043.7
82.5°	1226.3	1252.5	1355.6	1326.4	1317.1	1361.8	1398.7	1403.3	1406.4	1187.9	1109.4
85°	381.6	392.4	380.1	363.1	337.0	307.7	300.0	244.7	193.9	160.0	140.0
87.5°	270.8	289.3	261.6	246.2	218.5	207.7	186.2	146.2	113.9	80.0	53.9
90°	140.0	143.1	127.7	109.2	101.6	95.4	81.6	58.5	29.2	15.4	13.8
92.5°	70.8	72.3	63.1	53.9	46.2	40.0	30.8	16.9	9.2	4.6	1.5
95°	27.7	29.2	26.2	23.1	18.5	13.8	12.3	9.2	6.2	3.1	1.5
97.5°	9.2	9.2	9.2	7.7	7.7	7.7	7.7	6.2	4.6	3.1	1.5
100°	0.0	0.0	0.0	1.5	3.1	4.6	4.6	4.6	3.1	1.5	1.5
102.5°	0.0	0.0	0.0	0.0	0.0	1.5	3.1	3.1	3.1	1.5	1.5
105°	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5



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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	1.5	1.5	1.5
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
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	1.5
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
165°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5
170°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5
175°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5
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°	3243.6	3243.6	3243.6	3243.6	3243.6	3243.6	3243.6	3243.6	3243.6	3243.6
2.5°	3262.1	3252.8	3257.4	3219.0	3228.2	3203.6	3255.9	3242.0	3235.9	3257.4
5°	3269.7	3235.9	3263.6	3237.4	3242.0	3206.7	3249.7	3232.8	3231.3	3243.6
7.5°	3272.8	3255.9	3282.1	3239.0	3252.8	3239.0	3271.3	3254.4	3269.7	3280.5
10°	3315.9	3306.7	3303.6	3288.2	3299.0	3268.2	3308.2	3308.2	3315.9	3345.1
12.5°	3379.0	3366.7	3359.0	3331.3	3342.1	3332.8	3365.1	3371.3	3385.1	3397.5
15°	3465.2	3443.6	3435.9	3411.3	3419.0	3417.5	3440.5	3442.1	3472.9	3471.3
17.5°	3575.9	3545.2	3554.4	3535.9	3537.5	3525.2	3512.9	3512.9	3540.6	3546.7
20°	3708.3	3532.9	3302.1	3172.8	3149.7	3166.7	3232.8	3342.1	3205.1	3243.6
22.5°	3469.8	3311.3	3300.5	3271.3	3252.8	2840.4	2734.3	2700.4	2877.4	3182.0
25°	3500.6	3432.8	3412.8	3375.9	2831.2	2826.6	2795.8	2745.0	2243.4	2232.7
27.5°	3663.7	3597.5	3565.2	2957.4	2945.1	2943.5	2897.4	2388.1	2272.7	2288.1
30°	3854.5	3777.5	3199.0	3106.6	3095.9	3071.3	2806.6	2358.8	2357.3	2358.8
32.5°	4074.5	3819.1	3291.3	3286.7	3292.8	3217.4	2486.5	2477.3	2475.8	2491.2
35°	4376.1	3543.6	3522.1	3545.2	3512.9	2782.0	2635.8	2631.2	2632.7	2625.0
37.5°	4176.0	3820.6	3816.0	3816.0	3740.6	2846.6	2817.4	2838.9	2835.8	2825.1
40°	4260.7	4156.0	4128.3	4119.1	3162.0	3071.3	3054.3	3082.0	3086.6	3094.3
42.5°	4671.5	4576.1	4562.3	4453.0	3440.5	3411.3	3359.0	3388.2	3385.1	3394.4
45°	5176.2	5111.6	5051.6	3860.6	3816.0	3779.1	3725.2	3759.1	3768.3	3762.1
47.5°	5764.0	5693.2	5259.3	4245.3	4243.7	4214.5	4154.5	4182.2	4177.6	4177.6
50°	6354.8	6277.9	4777.7	4734.6	4719.2	4673.0	4623.8	4628.4	4630.0	4645.3
52.5°	7015.0	5607.0	5288.5	5202.4	5214.7	5183.9	5136.2	3888.3	5113.1	5127.0
55°	6556.4	5868.6	5850.2	5736.3	5765.5	5725.5	5694.7	3836.0	5085.4	5619.3
57.5°	6482.6	6433.3	6417.9	6301.0	6337.9	5957.9	6242.5	4197.6	3517.5	2569.6
60°	7047.3	6994.9	6985.7	6882.6	6879.5	4734.6	5674.7	2878.9	2249.6	2265.0
62.5°	7595.0	7510.4	7533.5	7411.9	5225.4	2885.1	2543.5	64.6	103.1	109.2
65°	8205.9	8064.3	8087.4	7975.1	5390.1	3042.0	2749.7	33.9	29.2	27.7
67.5°	8793.7	8546.0	8427.5	8309.0	5597.8	3203.6	2865.1	9.2	0.0	0.0
68°	8764.5	8502.9	8381.3	8269.0	5576.3	3199.0	2858.9	9.2	0.0	0.0
70°	8270.5	8035.1	7919.7	7833.5	5323.9	3089.7	2743.5	9.2	0.0	0.0
72.5°	7230.4	7099.6	7025.7	6950.3	4730.0	2763.5	2460.4	9.2	0.0	0.0
75°	6144.0	6107.1	6061.0	5894.8	3942.2	2261.9	2021.9	9.2	0.0	0.0
77.5°	4868.5	4866.9	4754.6	4559.2	2968.2	1660.3	1491.0	7.7	0.0	0.0
80°	2632.7	2869.7	2783.5	2683.5	1683.3	903.2	860.1	6.2	0.0	0.0
82.5°	740.1	700.1	672.4	629.3	353.9	197.0	192.3	6.2	0.0	0.0
85°	103.1	113.9	126.2	143.1	81.6	52.3	46.2	3.1	0.0	0.0
87.5°	58.5	66.2	81.6	84.6	30.8	24.6	7.7	0.0	0.0	0.0
90°	12.3	13.8	15.4	15.4	6.2	6.2	0.0	0.0	0.0	0.0
92.5°	0.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	1.5	1.5	1.5	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°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	1.5	1.5	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)