

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: McGRAW-EDISON

Report Number: P579652

Luminaire Tested: **CTN-CA8-330-727-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA8-330-727-U-T5-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (8) 2700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30472 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U2 - G4

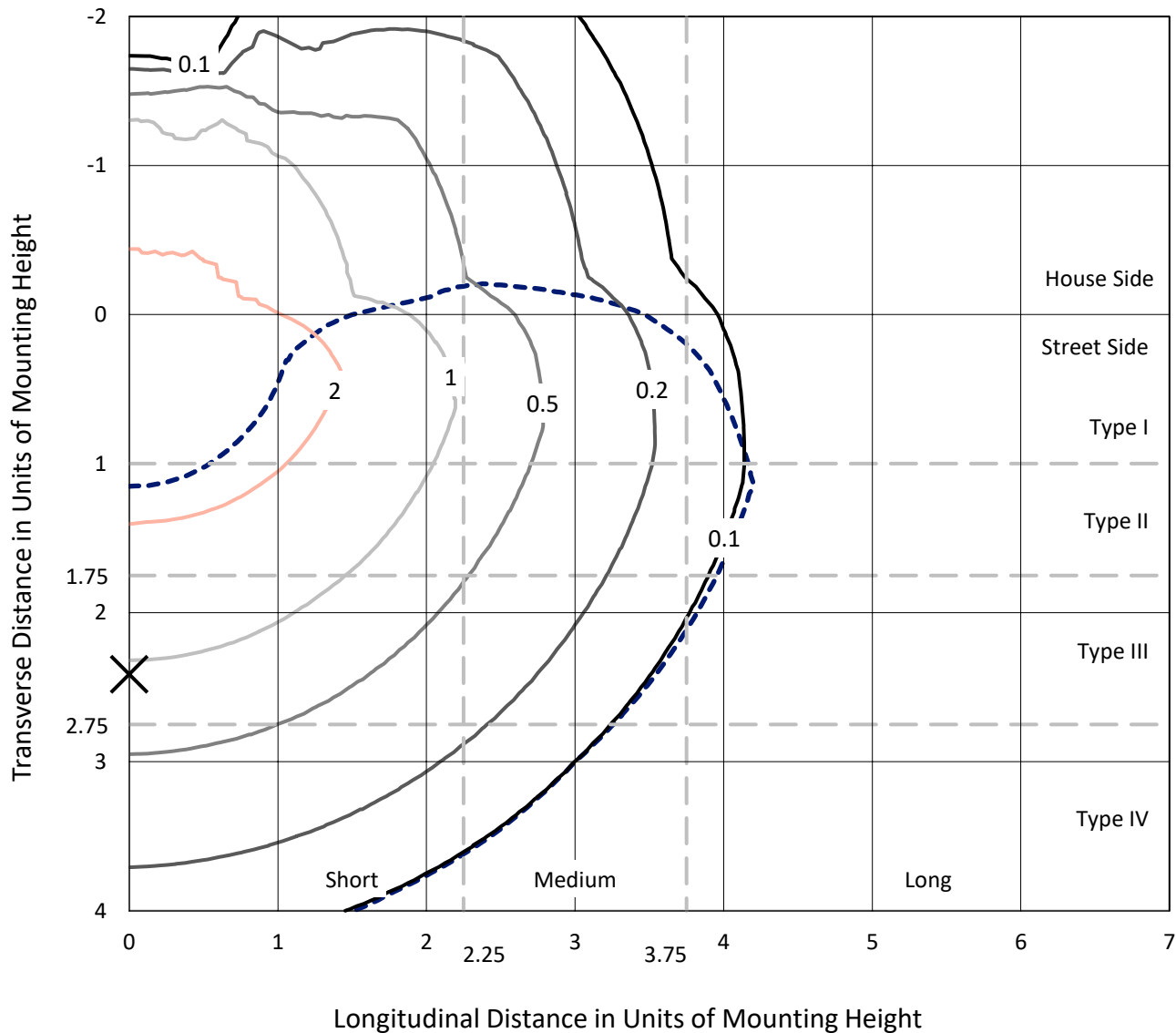
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

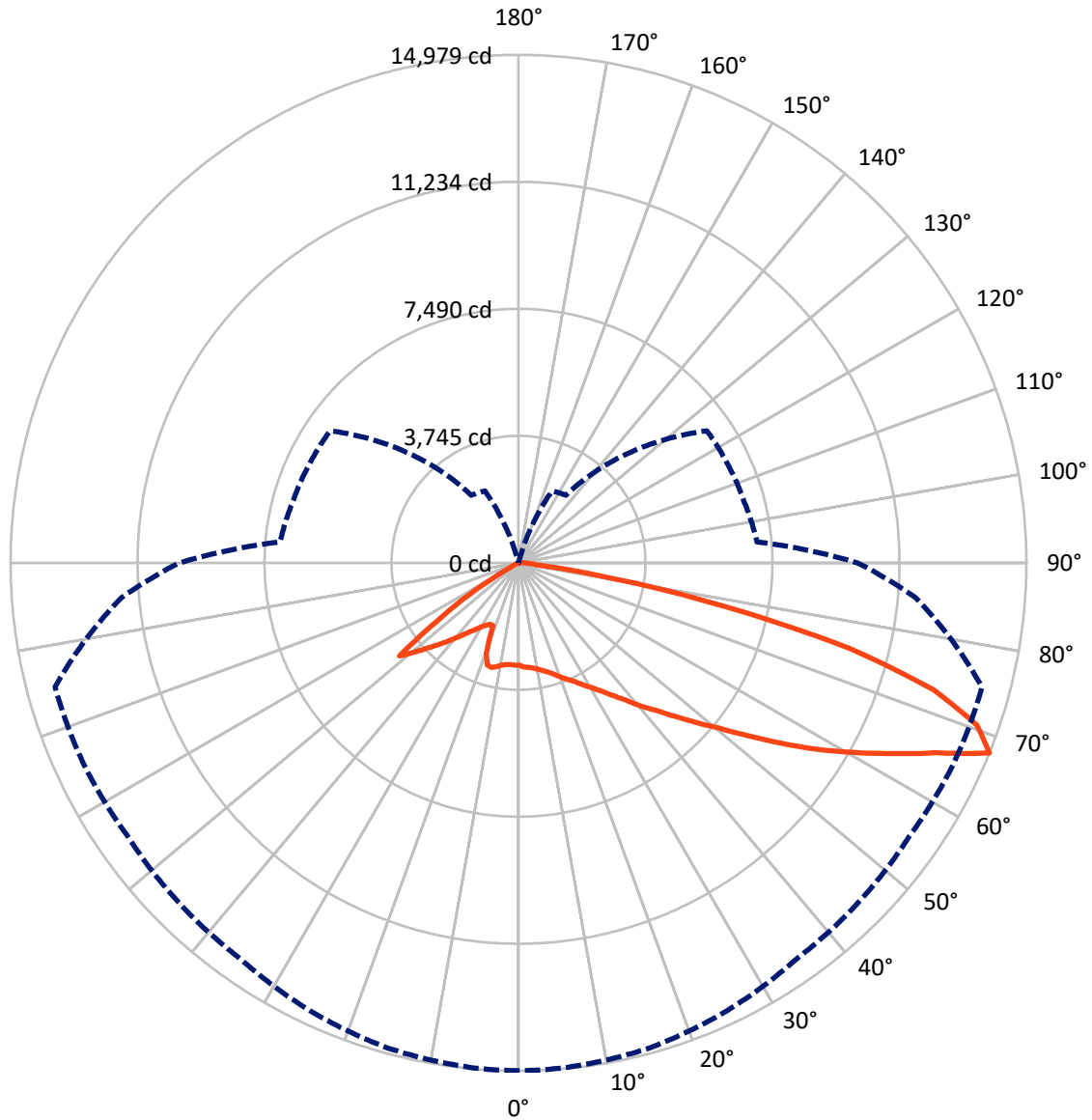
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.4 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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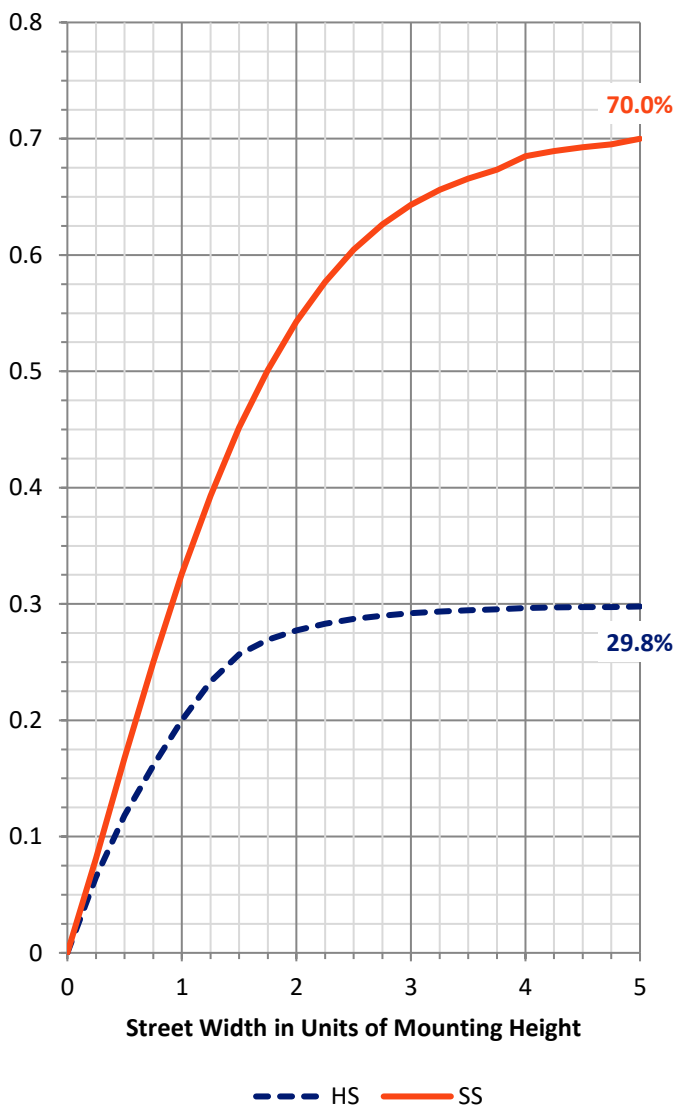
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9096.1	3.1	9099.1
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	21338.6	34.3	21372.9
	% Fixture	70.0	0.1	70.1
Total	Lumens	30434.6	37.3	30472.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.1	1.0
10°-20°	901.2	3.0
20°-30°	1512.4	5.0
30°-40°	2452.4	8.0
40°-50°	4007.4	13.2
50°-60°	6280.4	20.6
60°-70°	8411.3	27.6
70°-80°	6130.7	20.1
80°-90°	447.7	1.5
90°-100°	28.6	0.1
100°-110°	8.1	0.0
110°-120°	0.6	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°	30434.6	99.9
0°-180°	30472.0	100.0

Coefficient of Utilization

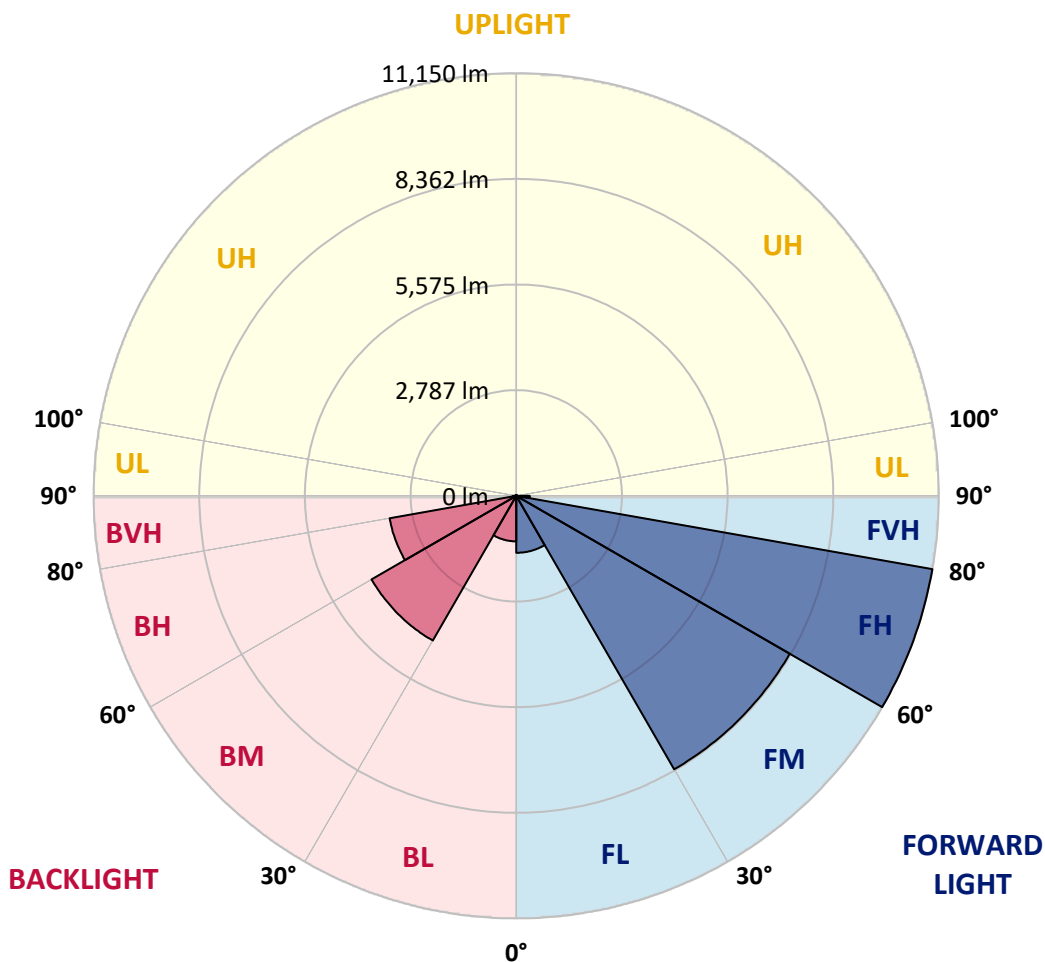


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1503.0	4.9			
FM (30°-60°)	8331.6	27.3			
FH (60°-80°)	11149.9	36.6			G4/12000
FVH (80°-90°)	354.0	1.2			G3/500
BL (0°-30°)	1201.6	3.9	B3/2500		
BM (30°-60°)	4408.6	14.5	B3/5000		
BH (60°-80°)	3392.2	11.1	B4/5000		G4/5000
BVH (80°-90°)	93.7	0.3			G1/100
UL (90°-100°)	28.6	0.1		U2/50	
UH (100°-180°)	8.7	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°	3019.4	3019.4	3019.4	3019.4	3019.4	3019.4	3019.4	3019.4	3019.4	3019.4	3019.4
2.5°	3077.1	3059.1	3060.4	3077.1	3027.1	3043.8	3022.0	3038.6	3027.1	3031.0	3038.6
5°	3096.3	3077.1	3078.4	3098.9	3054.0	3068.1	3038.6	3047.6	3037.4	3042.5	3042.5
7.5°	3134.7	3112.9	3111.7	3124.5	3078.4	3083.5	3056.6	3057.9	3042.5	3052.7	3047.6
10°	3192.4	3174.4	3161.6	3169.3	3128.3	3125.8	3091.2	3092.4	3073.2	3084.8	3075.8
12.5°	3262.8	3238.5	3235.9	3238.5	3193.6	3183.4	3147.5	3150.1	3115.5	3133.4	3123.2
15°	3352.5	3314.1	3314.1	3328.2	3270.5	3262.8	3219.3	3221.8	3186.0	3200.1	3189.8
17.5°	3462.7	3425.5	3419.1	3429.4	3379.4	3369.2	3324.3	3321.8	3282.0	3285.9	3276.9
20°	3604.9	3567.7	3552.3	3578.0	3515.2	3507.5	3453.7	3448.6	3406.3	3394.8	3389.6
22.5°	3736.8	3707.3	3699.7	3727.8	3662.5	3656.1	3604.9	3598.5	3558.7	3542.1	3440.9
25°	3885.4	3879.0	3876.4	3885.4	3823.9	3811.1	3771.4	3762.4	3729.1	3708.6	3585.7
27.5°	4077.6	4075.0	4067.3	4068.6	4012.2	4000.7	3963.6	3957.2	3922.6	3899.5	3741.9
30°	4278.7	4278.7	4262.0	4271.0	4242.8	4224.9	4195.4	4172.4	4150.6	4126.3	3927.7
32.5°	4510.6	4509.3	4493.9	4520.8	4500.3	4500.3	4482.4	4458.0	4419.6	4408.1	4167.2
35°	4809.0	4789.8	4783.4	4827.0	4820.6	4832.1	4825.7	4800.1	4768.1	4741.2	4449.1
37.5°	5139.6	5134.4	5153.7	5180.6	5194.6	5225.4	5206.2	5204.9	5199.8	5131.9	4373.5
40°	5546.9	5525.2	5552.1	5566.1	5555.9	5605.9	5589.2	5603.3	5641.7	5096.0	4368.4
42.5°	5953.0	5933.8	5953.0	6022.2	6006.8	6067.0	6059.4	6114.4	6136.2	5171.6	4723.2
45°	6452.6	6430.9	6446.2	6528.2	6535.9	6608.9	6648.6	6701.2	6711.4	5660.9	5151.1
47.5°	7026.5	6990.7	7020.1	7058.6	7175.1	7244.3	7282.8	7346.8	7412.1	6250.2	5637.9
50°	7659.4	7656.8	7688.8	7755.5	7888.7	7957.9	8024.5	8091.1	8198.7	6907.4	6183.6
52.5°	8463.9	8447.2	8502.3	8565.1	8682.9	8789.3	8868.7	8937.9	9053.2	7572.3	6774.2
55°	9383.7	9326.0	9431.1	9537.4	9587.4	9712.9	9768.0	9825.6	9935.8	8271.7	7118.8
57.5°	10376.5	10362.4	10435.4	10473.8	10581.4	10659.6	10689.1	10751.8	10750.5	8999.4	7705.5
60°	11353.9	11338.5	11424.4	11447.4	11533.3	11603.7	11593.5	11649.8	11670.3	9682.2	8280.7
62.5°	12382.6	12357.0	12436.4	12441.5	12390.3	12504.3	12492.8	12540.2	12522.2	10349.6	8846.9
65°	13507.4	13526.6	13552.2	13447.1	13324.2	13422.8	13420.2	13509.9	13574.0	11282.2	9605.3
67.5°	14979.3	14954.9	14823.0	14569.3	14270.9	14170.9	14064.6	14129.9	14147.9	11745.9	9993.4
70°	14343.9	14290.1	14231.1	13972.4	13612.4	13358.8	13193.5	13262.7	13335.7	11100.3	9386.2
72.5°	12795.1	12661.9	12387.7	12159.7	11952.2	11704.9	11503.8	11624.2	11784.3	9846.1	8311.4
75°	10094.6	9970.4	9770.5	9615.5	9504.1	9501.5	9492.6	9586.1	9563.0	7995.0	6757.5
77.5°	6251.5	6511.6	6696.0	6564.1	6610.2	6515.4	6724.2	6847.2	6958.6	5731.4	4814.2
80°	2886.2	2952.8	3279.5	3194.9	3127.0	3107.8	3120.6	3334.6	3397.3	2572.3	2154.7
82.5°	658.5	631.6	654.6	607.2	604.7	576.5	580.3	580.3	559.8	474.0	397.1
85°	333.1	340.8	343.3	329.2	290.8	261.3	242.1	205.0	176.8	151.2	128.1
87.5°	222.9	229.3	233.2	213.9	192.2	167.8	152.4	124.3	98.6	61.5	47.4
90°	152.4	151.2	147.3	137.1	123.0	105.0	84.5	58.9	34.6	12.8	9.0
92.5°	108.9	106.3	105.0	96.1	85.8	71.7	55.1	37.2	19.2	9.0	5.1
95°	71.7	70.5	70.5	65.3	57.6	47.4	37.2	24.3	14.1	7.7	5.1
97.5°	50.0	48.7	48.7	46.1	41.0	34.6	25.6	16.7	11.5	7.7	5.1
100°	34.6	34.6	34.6	32.0	29.5	24.3	19.2	12.8	10.2	7.7	5.1
102.5°	23.1	23.1	24.3	23.1	20.5	16.7	12.8	10.2	9.0	6.4	5.1
105°	15.4	15.4	15.4	15.4	14.1	11.5	10.2	9.0	7.7	6.4	5.1
107.5°	10.2	10.2	10.2	10.2	9.0	7.7	7.7	7.7	6.4	6.4	5.1
110°	6.4	6.4	6.4	7.7	6.4	6.4	6.4	6.4	6.4	5.1	5.1



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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°	3019.4	3019.4	3019.4	3019.4	3019.4	3019.4	3019.4	3019.4	3019.4	3019.4
2.5°	3032.2	3014.3	3023.3	3005.3	2997.6	2981.0	3013.0	3015.6	3013.0	3018.1
5°	3036.1	3015.6	3025.8	3005.3	3001.5	2982.3	3014.3	3014.3	3006.6	3010.5
7.5°	3045.0	3023.3	3031.0	3006.6	3006.6	2983.6	3022.0	3019.4	3013.0	3022.0
10°	3075.8	3050.2	3050.2	3027.1	3029.7	3005.3	3052.7	3052.7	3047.6	3063.0
12.5°	3123.2	3091.2	3092.4	3060.4	3065.5	3046.3	3104.0	3106.5	3106.5	3132.2
15°	3184.7	3136.0	3141.1	3106.5	3116.8	3093.7	3145.0	3142.4	3148.8	3186.0
17.5°	3260.3	3206.5	3161.6	3048.9	2982.3	2984.8	3137.3	3207.7	3125.8	3150.1
20°	3292.3	3031.0	2888.8	2847.8	2838.8	2696.6	2405.8	2450.6	2724.8	2843.9
22.5°	3077.1	2993.8	2979.7	2927.2	2539.0	2431.4	2449.4	2423.7	2154.7	2002.3
25°	3182.1	3127.0	3095.0	2632.6	2545.4	2526.2	2513.4	2270.0	1977.9	1992.0
27.5°	3330.7	3259.0	2874.7	2644.1	2660.7	2631.3	2557.0	2042.0	2033.0	2056.1
30°	3506.2	3325.6	2801.6	2779.9	2799.1	2760.7	2149.6	2129.1	2129.1	2152.2
32.5°	3721.4	3016.9	2973.3	2975.9	2963.1	2527.5	2262.3	2257.2	2272.6	2291.8
35°	3661.2	3218.0	3221.8	3243.6	3214.1	2472.4	2439.1	2419.9	2432.7	2440.4
37.5°	3543.4	3520.3	3520.3	3496.0	2744.0	2665.9	2630.0	2627.4	2626.1	2626.1
40°	3840.6	3818.8	3791.9	3749.6	2870.8	2891.3	2837.5	2831.1	2835.0	2849.0
42.5°	4178.8	4169.8	4167.2	3218.0	3134.7	3150.1	3092.4	3075.8	3075.8	3107.8
45°	4577.2	4565.7	4282.5	3439.6	3425.5	3443.5	3379.4	3339.7	3361.5	3384.5
47.5°	5034.5	5034.5	3791.9	3771.4	3771.4	3781.7	3717.6	3663.8	3685.6	3693.3
50°	5535.4	4752.7	4172.4	4153.2	4171.1	4166.0	4099.3	3599.7	4062.2	4066.0
52.5°	5675.0	4622.0	4590.0	4568.2	4590.0	4586.1	4517.0	3002.8	4394.0	4456.8
55°	5030.7	5034.5	5028.1	4996.1	5019.1	5010.2	4942.3	3278.2	3239.8	2887.5
57.5°	5439.3	5444.4	5441.9	5436.8	5457.3	3964.8	5119.1	2961.8	1808.8	1810.1
60°	5883.8	5858.2	5850.5	5839.0	4948.7	2810.6	2132.9	206.2	707.1	696.9
62.5°	6287.4	6278.4	6251.5	6245.1	4199.3	2213.6	2162.4	47.4	37.2	35.9
65°	6848.5	6769.1	6747.3	6679.4	4476.0	2357.1	2308.4	14.1	1.3	0.0
67.5°	7057.3	6895.9	6817.7	6781.9	4554.1	2431.4	2337.9	14.1	1.3	0.0
70°	6662.7	6462.9	6364.2	6324.5	4255.6	2272.6	2180.3	14.1	1.3	0.0
72.5°	5908.2	5760.9	5721.2	5594.3	3752.2	1994.6	1913.9	14.1	0.0	0.0
75°	4846.2	4792.4	4743.7	4609.2	3050.2	1584.7	1512.9	12.8	0.0	0.0
77.5°	3526.7	3447.3	3357.6	3211.6	2058.6	1035.1	997.9	11.5	0.0	0.0
80°	1589.8	1524.4	1502.7	1274.6	730.2	336.9	297.2	10.2	0.0	0.0
82.5°	308.7	278.0	263.9	253.6	164.0	91.0	79.4	7.7	0.0	0.0
85°	105.0	116.6	135.8	149.9	92.2	55.1	46.1	5.1	0.0	0.0
87.5°	41.0	55.1	66.6	69.2	34.6	23.1	12.8	2.6	0.0	0.0
90°	7.7	10.2	9.0	6.4	3.8	1.3	0.0	0.0	0.0	0.0
92.5°	3.8	5.1	3.8	3.8	2.6	1.3	0.0	0.0	0.0	0.0
95°	5.1	5.1	5.1	3.8	2.6	1.3	0.0	0.0	0.0	0.0
97.5°	5.1	5.1	5.1	3.8	2.6	1.3	0.0	0.0	0.0	0.0
100°	5.1	5.1	5.1	3.8	2.6	1.3	0.0	0.0	0.0	0.0
102.5°	5.1	5.1	5.1	3.8	2.6	1.3	0.0	0.0	0.0	0.0
105°	5.1	6.4	5.1	3.8	2.6	1.3	0.0	0.0	0.0	0.0
107.5°	5.1	6.4	5.1	3.8	2.6	1.3	0.0	0.0	0.0	0.0
110°	5.1	6.4	5.1	3.8	2.6	1.3	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)