

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: P579451

Luminaire Tested: **CTN-CA6-230-730-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA6-230-730-U-T5N-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (6) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26575 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U2 - G3

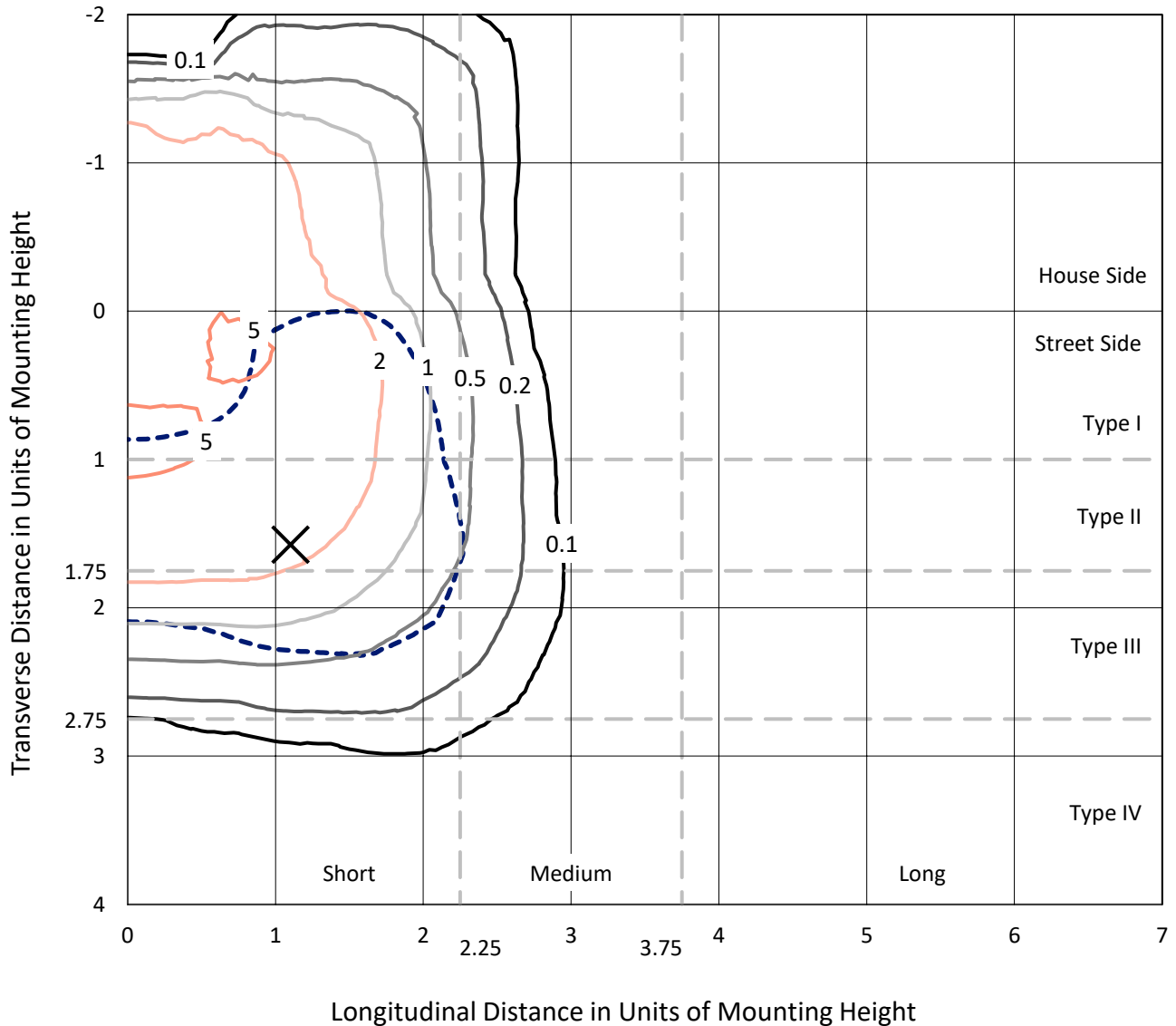
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

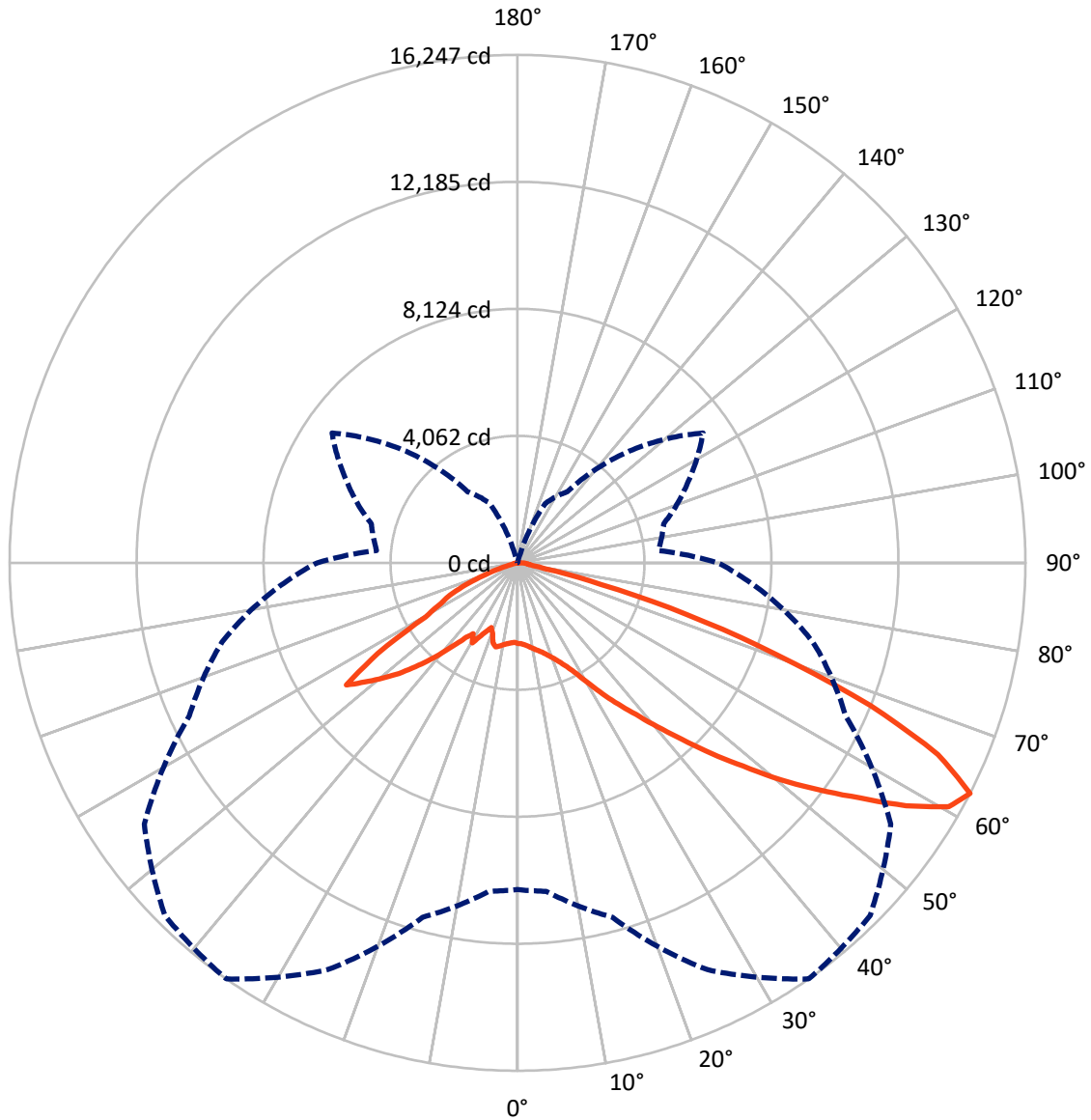
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical



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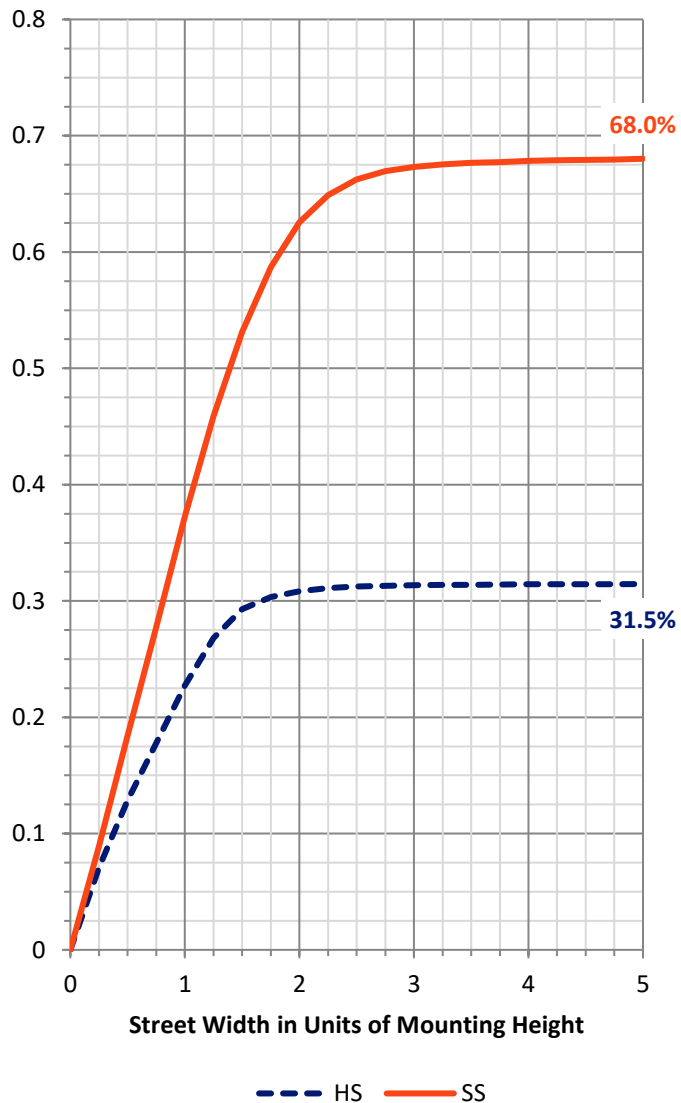
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8407.2	0.0	8407.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	18152.6	15.2	18167.8
	% Fixture	68.3	0.1	68.4
Total	Lumens	26559.8	15.2	26575.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.4	1.0
10°-20°	817.8	3.1
20°-30°	1518.6	5.7
30°-40°	2994.1	11.3
40°-50°	5374.7	20.2
50°-60°	7812.8	29.4
60°-70°	6420.8	24.2
70°-80°	1220.5	4.6
80°-90°	146.1	0.5
90°-100°	13.8	0.1
100°-110°	1.3	0.0
110°-120°	0.0	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°	26559.8	99.9
0°-180°	26575.0	100.0

Coefficient of Utilization



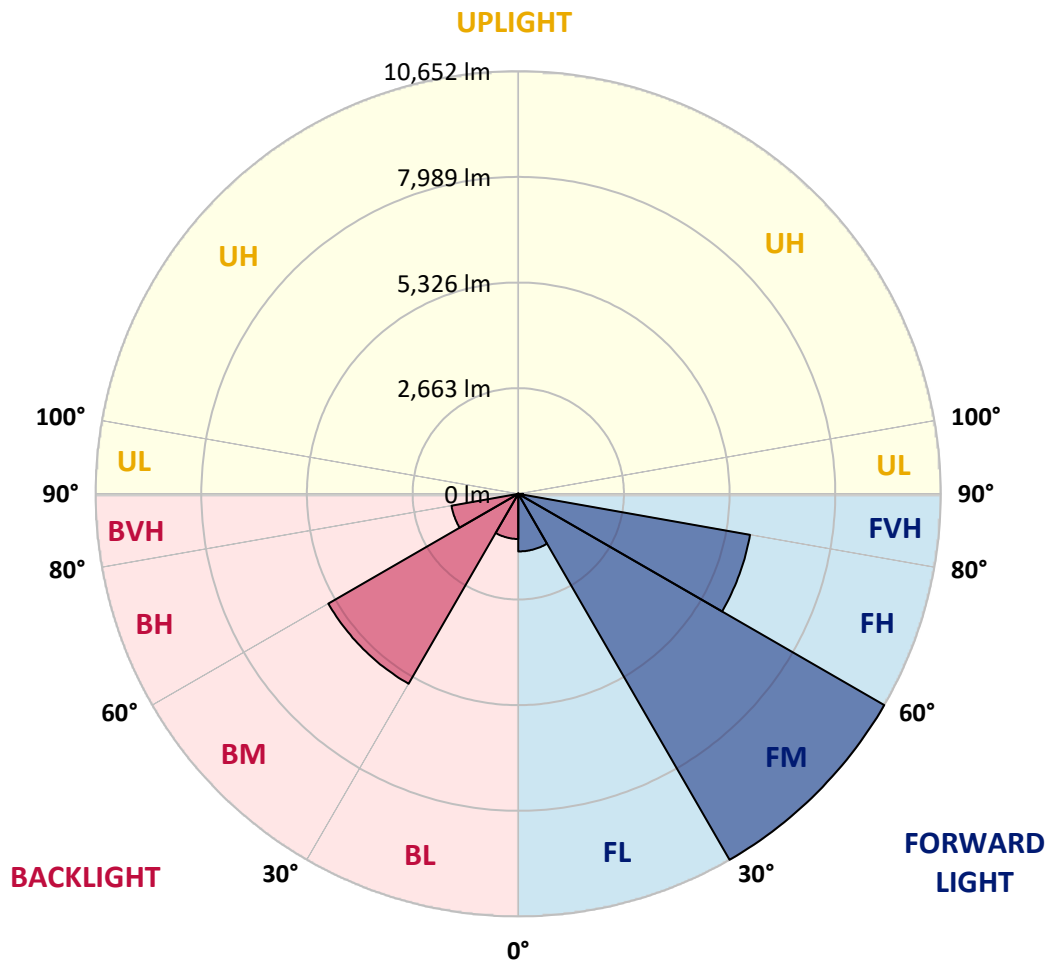
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1452.5	5.5			
FM (30°-60°)	10652.5	40.1			
FH (60°-80°)	5932.1	22.3			G3/7500
FVH (80°-90°)	115.5	0.4			G2/225
BL (0°-30°)	1138.4	4.3	B3/2500		
BM (30°-60°)	5529.1	20.8	B4/8500		
BH (60°-80°)	1709.2	6.4	B3/2500		G3/2500
BVH (80°-90°)	30.6	0.1			G1/100
UL (90°-100°)	13.8	0.1		U2/50	
UH (100°-180°)	1.4	0.0		U1/10	

BUG Rating: B4-U2-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5
2.5°	2645.4	2623.8	2626.0	2642.2	2593.6	2609.8	2587.1	2606.5	2597.9	2606.5	2611.9
5°	2698.3	2671.3	2670.3	2686.5	2647.6	2657.3	2631.4	2644.3	2632.4	2643.2	2643.2
7.5°	2763.1	2740.5	2735.1	2748.0	2713.5	2717.8	2691.9	2697.3	2683.2	2697.3	2686.5
10°	2844.2	2823.6	2815.0	2821.5	2790.2	2792.3	2764.2	2766.4	2745.9	2757.7	2749.1
12.5°	2929.5	2901.4	2897.1	2907.9	2875.5	2871.2	2847.4	2849.6	2826.9	2837.7	2831.2
15°	3018.1	2988.9	2990.0	3000.8	2968.4	2970.5	2945.7	2950.0	2927.3	2938.1	2929.5
17.5°	3135.8	3106.7	3104.5	3123.9	3096.9	3105.6	3079.6	3085.0	3068.8	3071.0	3061.3
20°	3304.3	3266.5	3259.0	3287.0	3251.4	3262.2	3248.2	3266.5	3260.0	3254.6	3247.1
22.5°	3505.2	3476.1	3461.0	3482.6	3440.4	3461.0	3468.5	3506.3	3516.0	3509.6	3390.7
25°	3774.2	3759.1	3744.0	3734.2	3683.5	3715.9	3754.8	3817.4	3858.5	3874.7	3709.4
27.5°	4137.2	4144.7	4078.8	4068.0	4010.8	4061.5	4131.8	4233.3	4316.5	4346.7	4124.2
30°	4603.8	4613.5	4523.9	4497.9	4463.4	4506.6	4637.3	4748.6	4871.7	4922.5	4625.4
32.5°	5223.8	5215.2	5083.4	5033.7	5002.4	5019.7	5156.9	5309.2	5447.4	5561.9	5196.8
35°	5981.1	5954.1	5813.6	5676.4	5552.2	5605.2	5705.6	5890.3	6099.9	6268.4	5760.7
37.5°	6860.3	6834.4	6620.5	6396.9	6151.7	6174.4	6264.1	6565.4	6835.5	6879.8	5664.6
40°	7768.8	7758.0	7556.0	7271.9	6890.6	6783.6	6902.5	7269.7	7554.9	6782.6	5888.2
42.5°	8676.2	8624.3	8510.9	8226.8	7719.1	7483.6	7643.5	8010.8	8317.5	7110.9	6406.7
45°	9591.1	9538.2	9442.0	9233.5	8705.3	8362.9	8409.3	8816.6	9094.2	7726.7	6946.8
47.5°	10403.4	10364.5	10295.4	10178.7	9707.7	9397.7	9308.1	9593.2	9782.3	8226.8	7361.6
50°	11103.4	11069.9	11096.9	11058.0	10919.7	10594.6	10298.6	10280.3	10371.0	8671.8	7742.9
52.5°	11719.1	11673.7	11789.3	11926.5	12053.9	11981.6	11265.4	10931.6	10849.5	9005.6	7998.9
55°	12227.8	12211.6	12410.4	12780.9	13265.9	13456.0	12299.1	11533.3	11277.3	9288.6	8022.6
57.5°	12532.5	12571.4	12991.5	13708.8	14657.2	14746.9	13509.0	12172.8	11654.3	9460.4	8136.1
60°	12011.8	12143.6	12899.7	14404.4	15841.1	15880.0	14378.5	12300.2	11160.6	8842.5	7530.1
62.5°	10452.0	10547.1	11736.4	14360.2	16247.3	15951.3	14573.0	11580.8	9781.2	7500.9	6404.5
65°	7385.3	7495.5	8928.9	12949.4	14781.4	14792.2	13349.1	10014.5	7818.5	5807.1	4945.1
67.5°	4454.7	4633.0	5990.8	9401.0	12170.6	12392.0	11136.8	7581.9	5595.4	3791.5	3200.6
70°	1461.5	1624.6	2735.1	5564.1	8773.4	9721.8	8364.0	4926.8	2921.9	1603.0	1290.8
72.5°	579.0	653.5	963.5	2460.7	5653.8	6490.9	5153.6	2380.8	980.8	425.6	370.5
75°	386.7	394.3	445.0	838.2	2766.4	3549.5	2484.5	692.4	364.0	265.7	233.3
77.5°	337.0	338.1	360.8	441.8	900.9	1361.1	715.1	371.6	301.4	218.2	193.4
80°	308.9	313.3	327.3	377.0	412.6	462.3	353.2	310.0	261.4	200.9	182.6
82.5°	296.0	299.2	307.9	341.3	333.8	346.7	285.2	246.3	220.4	184.7	175.0
85°	270.0	275.5	280.9	301.4	274.4	237.6	220.4	165.3	157.7	139.3	128.5
87.5°	204.2	203.1	197.7	200.9	183.6	150.1	124.2	92.9	75.6	62.7	51.8
90°	85.3	86.4	83.2	78.9	69.1	57.3	43.2	25.9	13.0	4.3	2.2
92.5°	64.8	65.9	63.7	57.3	49.7	40.0	29.2	15.1	8.6	3.2	1.1
95°	40.0	41.0	38.9	34.6	30.2	22.7	15.1	9.7	5.4	2.2	0.0
97.5°	23.8	24.8	22.7	20.5	16.2	10.8	8.6	6.5	4.3	2.2	0.0
100°	14.0	14.0	13.0	10.8	7.6	6.5	5.4	4.3	3.2	1.1	0.0
102.5°	6.5	6.5	6.5	4.3	3.2	3.2	3.2	3.2	3.2	1.1	0.0
105°	2.2	2.2	1.1	1.1	1.1	2.2	2.2	2.2	2.2	1.1	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2	2.2	1.1	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	0.0



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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°	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5
2.5°	2606.5	2586.0	2589.2	2570.9	2566.6	2547.1	2581.7	2584.9	2575.2	2584.9
5°	2638.9	2614.1	2620.6	2600.0	2594.6	2567.6	2595.7	2593.6	2586.0	2595.7
7.5°	2686.5	2658.4	2661.6	2637.8	2632.4	2602.2	2628.1	2620.6	2611.9	2623.8
10°	2746.9	2719.9	2721.0	2688.6	2685.4	2650.8	2684.3	2670.3	2657.3	2674.6
12.5°	2831.2	2793.4	2790.2	2754.5	2753.4	2717.8	2752.3	2740.5	2723.2	2750.2
15°	2928.4	2877.6	2864.7	2819.3	2818.2	2780.4	2815.0	2796.6	2788.0	2820.4
17.5°	3054.8	2991.1	2892.8	2738.3	2668.1	2680.0	2802.0	2846.3	2730.7	2748.0
20°	3131.5	2822.6	2678.9	2615.2	2581.7	2389.4	2129.1	2150.7	2406.7	2528.7
22.5°	3001.9	2910.1	2857.1	2767.5	2300.8	2234.9	2250.1	2245.7	1915.2	1816.9
25°	3271.9	3185.5	3089.4	2536.3	2440.2	2412.1	2419.6	2109.6	1929.2	1936.8
27.5°	3660.8	3549.5	2940.3	2700.5	2681.1	2640.0	2490.9	2118.3	2141.0	2156.1
30°	4152.3	3756.9	3131.5	3026.7	2987.8	2943.5	2311.6	2366.7	2408.8	2455.3
32.5°	4627.6	3654.3	3497.7	3388.6	3328.1	2672.4	2607.6	2709.1	2751.3	2791.2
35°	4584.4	4094.0	3890.9	3752.6	3639.2	2884.1	2941.4	3095.8	3207.1	3206.0
37.5°	4703.2	4572.5	4338.1	4163.1	3158.5	3230.9	3350.8	3526.8	3661.9	3660.8
40°	5199.0	5057.5	4837.1	4461.2	3499.8	3668.4	3832.5	3997.8	4095.0	4102.6
42.5°	5691.6	5582.5	5383.7	3940.6	3917.9	4151.2	4323.0	4427.7	4487.1	4507.7
45°	6182.0	6079.4	5289.7	4358.6	4427.7	4658.9	4763.7	4784.2	4847.9	4845.8
47.5°	6571.9	6484.4	4866.3	4855.5	5027.2	5187.1	5153.6	5127.7	5143.9	5152.5
50°	6931.6	5645.1	5246.5	5404.2	5665.6	5685.1	5545.7	4393.2	5438.8	5420.4
52.5°	6439.1	5509.0	5600.8	5970.3	6415.3	6189.5	5917.3	3850.9	5100.7	5585.7
55°	5634.3	5727.2	5934.6	6554.6	6994.3	6726.4	6271.6	3965.4	3385.3	2755.6
57.5°	5746.7	5893.6	6287.8	7144.4	7527.9	5327.5	5853.6	2795.6	1892.5	1891.4
60°	5351.3	5573.8	6280.3	7409.1	6093.4	3413.4	2345.1	63.7	367.3	364.0
62.5°	4523.9	4840.4	5991.9	7241.7	5047.8	2774.0	2089.1	5.4	2.2	2.2
65°	3498.8	3871.4	4995.9	6270.6	4472.0	2389.4	1551.2	0.0	0.0	0.0
67.5°	2294.3	2640.0	3751.5	5208.7	3712.6	1806.1	1042.4	0.0	0.0	0.0
70°	956.0	1382.7	2331.1	3764.5	2730.7	1182.8	494.7	0.0	0.0	0.0
72.5°	276.5	421.3	1050.0	2247.9	1694.8	619.0	183.6	0.0	0.0	0.0
75°	182.6	192.3	317.6	904.1	824.2	226.8	74.5	0.0	0.0	0.0
77.5°	153.4	157.7	202.0	252.8	264.6	89.7	60.5	0.0	0.0	0.0
80°	141.5	142.6	181.5	188.0	141.5	74.5	59.4	0.0	0.0	0.0
82.5°	131.8	128.5	154.5	149.1	117.7	64.8	55.1	0.0	0.0	0.0
85°	90.7	92.9	104.8	132.9	71.3	32.4	38.9	0.0	0.0	0.0
87.5°	28.1	32.4	41.0	42.1	13.0	4.3	0.0	0.0	0.0	0.0
90°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	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°
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)