

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: P579425

Luminaire Tested: **CTN-CA10-210-730-U-T5-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-210-730-U-T5-HSS-HM-EX180
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21134 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U2 - G4

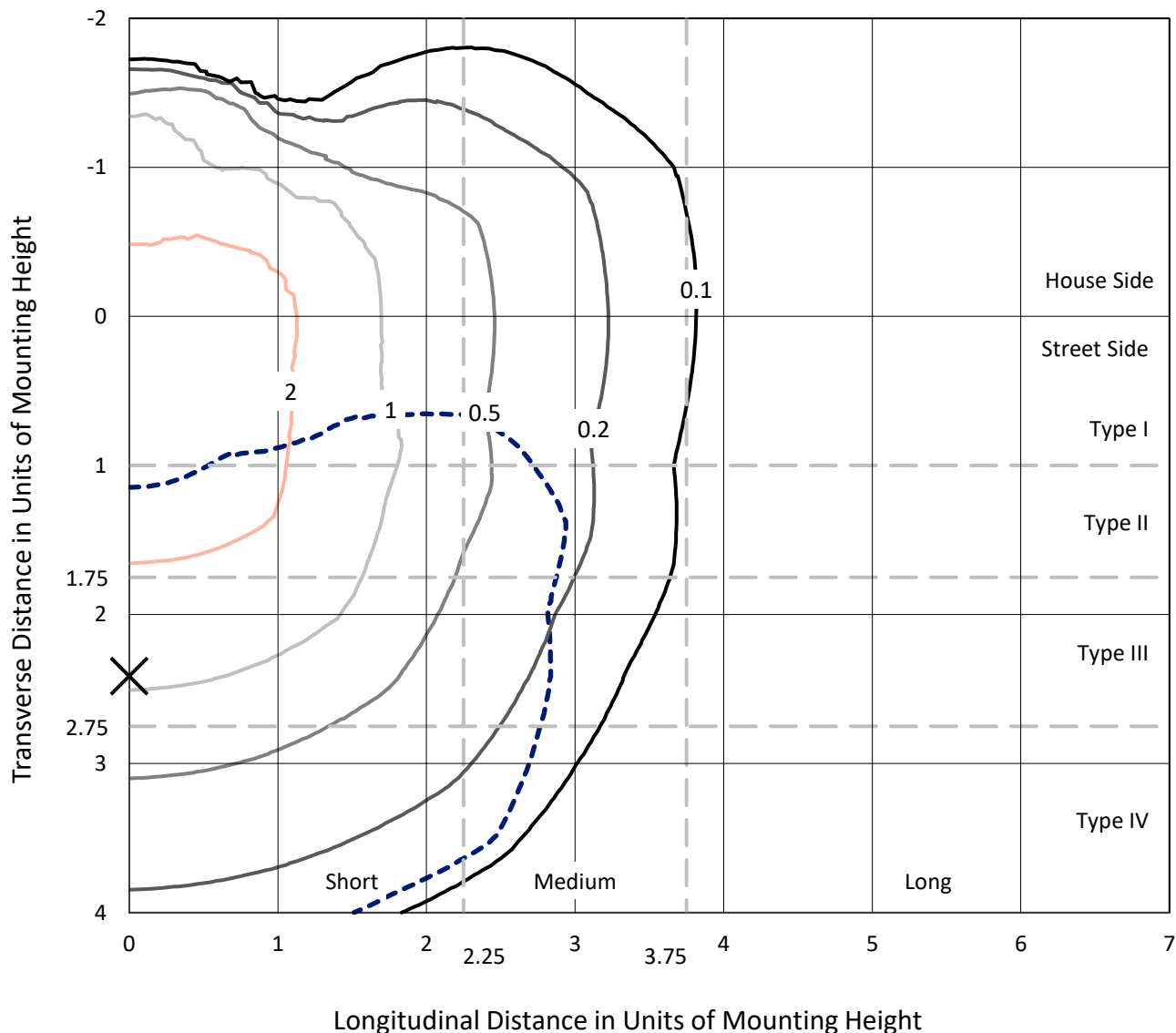
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

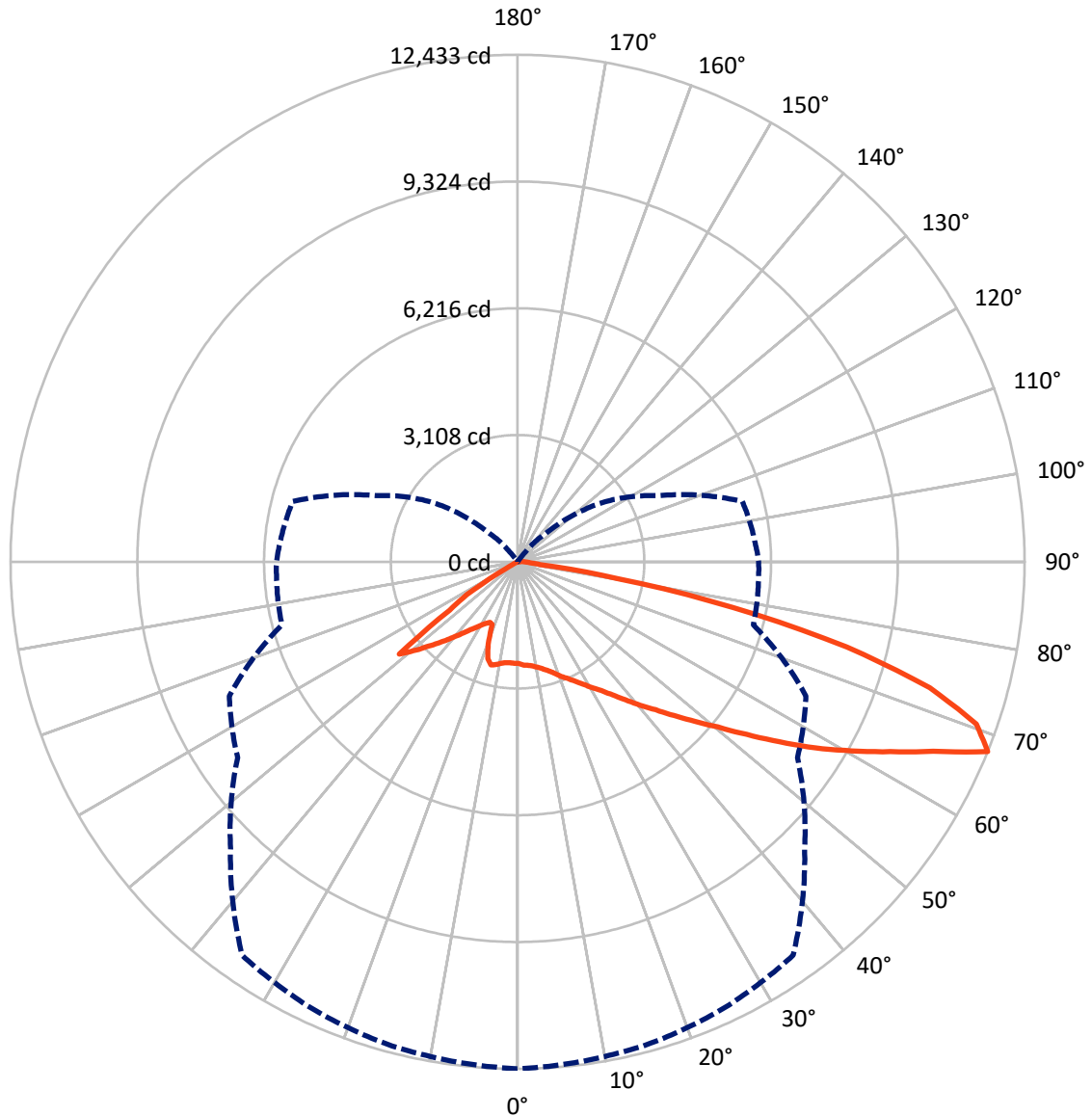
✕ Max cd
 - - - 1/2 Max cd



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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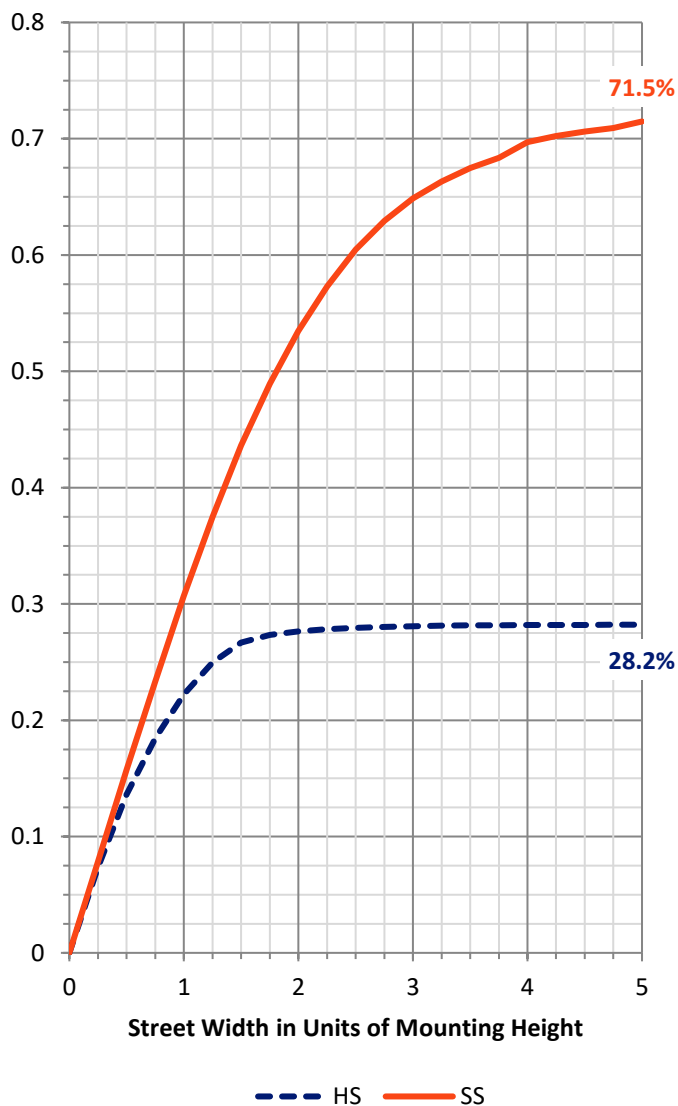
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5989.8	0.1	5989.9
	% Fixture	28.3	0.0	28.3
Street Side	Lumens	15117.2	26.9	15144.1
	% Fixture	71.5	0.1	71.7
Total	Lumens	21107.0	27.0	21134.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.0	1.1
10°-20°	738.9	3.5
20°-30°	1223.6	5.8
30°-40°	1926.1	9.1
40°-50°	3014.4	14.3
50°-60°	4352.3	20.6
60°-70°	5391.7	25.5
70°-80°	3926.7	18.6
80°-90°	293.3	1.4
90°-100°	23.0	0.1
100°-110°	3.9	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°	21107.0	99.9
0°-180°	21134.0	100.0

Coefficient of Utilization

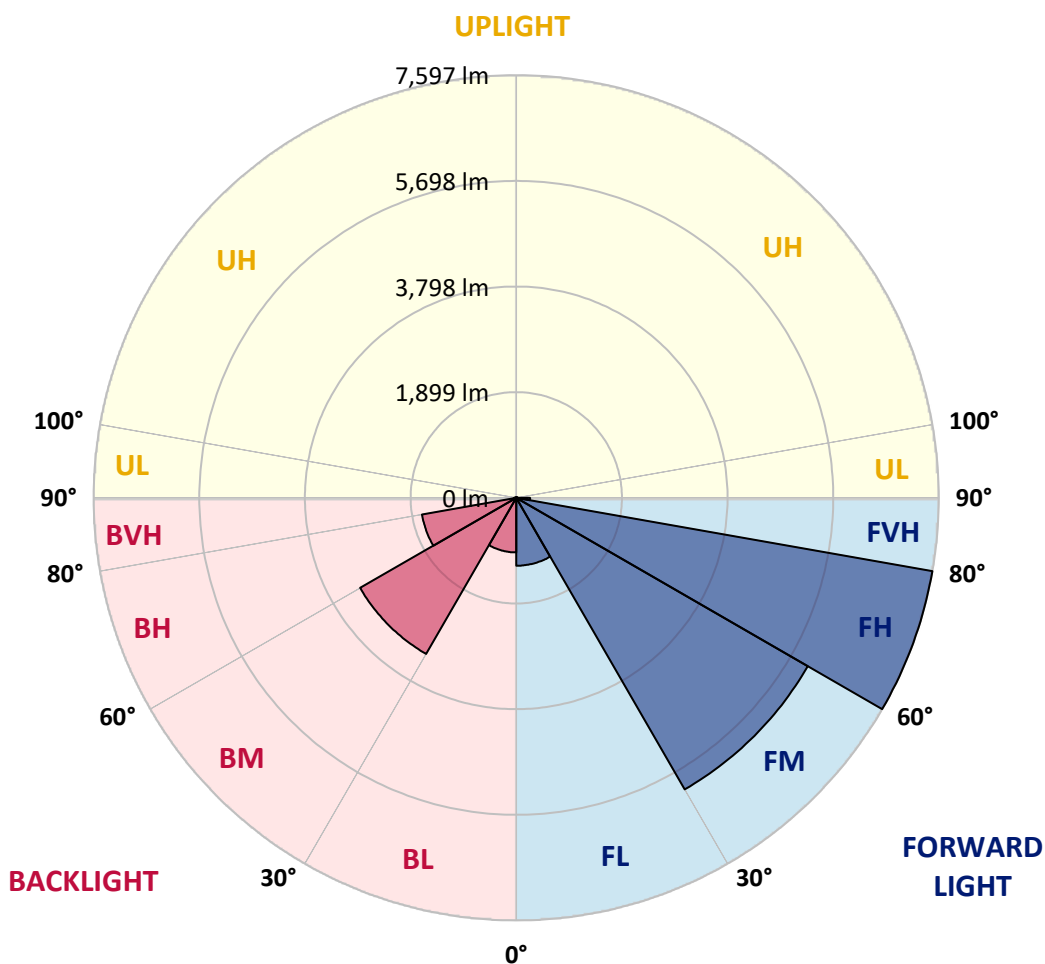


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1220.7	5.8			
FM (30°-60°)	6052.2	28.6			
FH (60°-80°)	7597.0	35.9			G4/12000
FVH (80°-90°)	247.4	1.2			G3/500
BL (0°-30°)	981.9	4.6	B2/1000		
BM (30°-60°)	3240.6	15.3	B3/5000		
BH (60°-80°)	1721.4	8.1	B3/2500		G3/2500
BVH (80°-90°)	45.9	0.2			G1/100
UL (90°-100°)	23.0	0.1		U2/50	
UH (100°-180°)	4.0	0.0		U1/10	

BUG Rating: B3-U2-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2489.0	2489.0	2489.0	2489.0	2489.0	2489.0	2489.0	2489.0	2489.0	2489.0	2489.0
2.5°	2534.6	2520.8	2520.8	2535.6	2494.3	2507.0	2490.1	2504.9	2496.5	2500.7	2506.0
5°	2549.4	2533.5	2534.6	2552.6	2515.5	2526.1	2506.0	2513.4	2506.0	2509.2	2509.2
7.5°	2577.0	2563.2	2563.2	2573.8	2536.7	2539.9	2521.9	2521.9	2512.3	2519.8	2513.4
10°	2628.9	2614.0	2606.6	2611.9	2579.1	2574.8	2550.5	2550.5	2535.6	2547.3	2537.8
12.5°	2691.3	2670.2	2668.0	2669.1	2632.0	2624.6	2597.1	2598.1	2570.6	2586.5	2574.8
15°	2766.5	2740.1	2737.9	2742.2	2703.0	2689.2	2658.5	2658.5	2627.8	2636.3	2620.4
17.5°	2862.9	2832.2	2826.9	2834.3	2795.1	2782.4	2746.4	2740.1	2706.2	2699.8	2686.0
20°	2990.0	2955.1	2944.5	2960.4	2910.6	2898.9	2855.5	2841.7	2796.2	2721.0	2622.5
22.5°	3104.4	3076.9	3070.5	3081.1	3035.6	3023.9	2981.6	2953.0	2842.8	2691.3	2600.3
25°	3234.7	3224.1	3220.9	3214.6	3173.3	3153.1	3112.9	3072.6	2822.7	2615.1	2613.0
27.5°	3395.7	3390.4	3375.6	3370.3	3324.7	3312.0	3259.1	2999.6	2750.7	2735.8	2727.4
30°	3571.5	3560.9	3546.1	3547.1	3516.4	3493.1	3367.1	2935.0	2889.4	2889.4	2867.2
32.5°	3766.4	3754.7	3739.9	3743.1	3730.4	3710.3	3331.1	3105.5	3070.5	3080.1	3052.5
35°	4007.9	3988.8	3983.5	3996.2	3997.3	3867.0	3394.6	3337.4	3309.9	3303.5	3199.7
37.5°	4289.6	4273.7	4292.8	4322.5	4288.6	3907.3	3647.8	3629.8	3602.2	3448.6	3202.9
40°	4627.5	4598.9	4622.2	4641.3	4619.0	4146.6	3913.6	3920.0	3895.6	3440.2	3168.0
42.5°	4962.2	4934.7	4954.8	5002.4	4994.0	4443.2	4237.7	4251.5	4005.8	3460.3	3439.1
45°	5376.3	5366.8	5360.4	5399.6	5432.5	4798.0	4622.2	4621.1	3927.4	3780.2	3761.1
47.5°	5845.5	5832.8	5836.0	5885.8	5935.6	5221.7	5076.6	4650.8	4129.7	4144.5	4127.6
50°	6368.8	6355.0	6396.3	6468.3	6493.7	5697.3	5519.3	4570.3	4551.2	4567.1	4538.5
52.5°	7032.9	7002.1	7065.7	7143.0	7175.9	6259.7	5543.7	5045.9	5014.1	5017.3	4926.2
55°	7788.1	7763.7	7820.9	7907.7	7956.5	6887.8	6050.0	5508.7	5489.7	4949.5	4457.0
57.5°	8608.9	8581.4	8657.6	8683.0	8695.8	7537.0	6559.4	6010.8	5128.5	4519.5	4491.9
60°	9413.9	9384.2	9480.6	9484.8	9521.9	8185.2	7043.5	6494.8	4941.0	4860.5	4837.2
62.5°	10259.1	10222.0	10306.7	10303.6	10230.5	8778.4	7523.3	6959.8	5275.7	5212.2	5176.1
65°	11197.5	11170.0	11229.3	11134.0	10988.9	9391.6	8021.1	7466.1	5665.5	5653.8	5645.4
67.5°	12432.5	12378.5	12258.8	12055.4	11777.9	9954.0	8376.9	7799.7	5982.2	5928.2	5911.2
70°	11935.7	11872.2	11781.1	11557.6	11274.8	9425.5	7805.0	7295.5	5593.5	5595.6	5555.3
72.5°	10568.4	10458.2	10372.4	10058.9	9903.2	8231.8	6800.9	6331.7	4838.3	4928.3	4909.2
75°	8336.7	8224.4	8083.6	7960.7	7943.7	6677.0	5483.3	5145.4	3857.5	3923.2	3970.8
77.5°	5403.9	5362.6	5540.5	5424.0	5528.8	4597.8	3916.8	3626.6	2658.5	2824.8	2802.6
80°	2473.2	2425.5	2711.5	2631.0	2670.2	2258.1	1913.9	1838.7	1203.2	1211.7	1237.1
82.5°	559.2	540.2	560.3	514.8	502.0	424.7	373.9	338.9	212.9	225.6	237.3
85°	306.1	306.1	301.9	280.7	240.4	198.1	156.8	120.7	65.7	72.0	71.0
87.5°	215.0	209.7	208.7	186.4	159.9	135.6	108.0	77.3	37.1	25.4	23.3
90°	147.2	145.1	137.7	123.9	107.0	87.9	65.7	38.1	15.9	7.4	5.3
92.5°	107.0	104.9	99.6	87.9	73.1	59.3	43.4	25.4	12.7	5.3	1.1
95°	71.0	69.9	66.7	57.2	47.7	38.1	27.5	15.9	10.6	4.2	1.1
97.5°	48.7	47.7	44.5	38.1	30.7	24.4	16.9	11.7	8.5	3.2	1.1
100°	32.8	31.8	29.7	24.4	19.1	14.8	10.6	8.5	6.4	3.2	1.1
102.5°	21.2	20.1	18.0	14.8	10.6	8.5	7.4	6.4	4.2	2.1	1.1
105°	12.7	11.7	9.5	7.4	6.4	5.3	5.3	4.2	3.2	1.1	1.1
107.5°	6.4	5.3	4.2	4.2	4.2	3.2	3.2	3.2	2.1	1.1	0.0
110°	1.1	1.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	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°	2489.0	2489.0	2489.0	2489.0	2489.0	2489.0	2489.0	2489.0	2489.0	2489.0
2.5°	2500.7	2483.7	2493.3	2478.4	2475.3	2459.4	2484.8	2488.0	2485.9	2490.1
5°	2503.9	2485.9	2496.5	2478.4	2478.4	2461.5	2485.9	2485.9	2479.5	2481.6
7.5°	2512.3	2494.3	2501.8	2481.6	2482.7	2462.6	2492.2	2489.0	2483.7	2491.2
10°	2536.7	2516.6	2515.5	2496.5	2500.7	2479.5	2516.6	2516.6	2511.3	2525.1
12.5°	2575.9	2546.2	2540.9	2517.6	2526.1	2508.1	2553.7	2555.8	2556.8	2579.1
15°	2617.2	2581.2	2586.5	2558.9	2555.8	2546.2	2587.5	2585.4	2584.4	2615.1
17.5°	2675.5	2506.0	2478.4	2459.4	2455.1	2431.8	2470.0	2543.1	2504.9	2483.7
20°	2583.3	2494.3	2385.2	2348.2	2340.8	2138.5	1978.5	2050.5	2148.0	2156.5
22.5°	2499.6	2467.9	2459.4	2401.1	2078.1	2010.3	2016.7	1990.2	1759.3	1658.7
25°	2603.4	2575.9	2539.9	2184.0	2107.7	2083.4	2076.0	1804.8	1622.6	1634.3
27.5°	2718.9	2688.2	2374.7	2189.3	2206.2	2172.4	2005.0	1684.1	1673.5	1693.6
30°	2862.9	2617.2	2317.5	2306.9	2322.8	2279.3	1781.5	1758.2	1755.0	1776.2
32.5°	3027.1	2524.0	2470.0	2470.0	2462.6	1993.4	1876.8	1861.0	1869.4	1891.7
35°	2965.7	2670.2	2663.8	2690.3	2512.3	2045.3	2029.4	2001.8	2008.2	2015.6
37.5°	2897.9	2910.6	2913.8	2900.0	1832.4	2193.5	2180.8	2175.5	2169.2	2171.3
40°	3150.0	3158.4	3155.3	3029.2	1977.5	2222.1	2352.4	2342.9	2341.8	2354.5
42.5°	3444.4	3467.7	3449.7	2672.3	2171.3	1868.4	2550.5	2545.2	2543.1	2569.5
45°	3775.9	3798.2	3420.0	2861.9	2377.8	1934.0	2564.2	2761.2	2777.1	2800.4
47.5°	4135.0	4130.7	3156.3	3153.1	2620.4	2116.2	2132.1	3019.7	3046.2	3054.6
50°	4548.1	3869.1	3456.1	3339.6	2894.7	2320.6	2260.3	2770.8	3355.4	3363.9
52.5°	4460.1	3827.8	3800.3	2929.7	3140.4	2546.2	2486.9	2471.0	3478.3	3682.7
55°	4157.2	4189.0	4149.8	3214.6	2302.6	2747.5	2710.4	2694.5	2587.5	2048.4
57.5°	4494.0	4503.6	4469.7	3476.2	2341.8	1712.7	2668.0	2288.9	1487.1	1479.7
60°	4843.6	4859.5	3329.0	2553.7	1500.8	573.0	136.6	144.0	411.0	361.2
62.5°	5177.2	5193.1	3523.8	2333.3	948.0	42.4	27.5	19.1	21.2	21.2
65°	5612.5	5618.9	3771.7	2470.0	985.0	10.6	3.2	0.0	0.0	0.0
67.5°	5838.1	5707.8	3834.2	2532.5	1011.5	6.4	2.1	0.0	0.0	0.0
70°	5497.1	5357.3	3569.4	2373.6	942.7	5.3	1.1	0.0	0.0	0.0
72.5°	4843.6	4775.8	3204.0	2104.6	834.6	3.2	1.1	0.0	0.0	0.0
75°	4014.2	3924.2	2656.4	1754.0	690.6	2.1	0.0	0.0	0.0	0.0
77.5°	2855.5	2866.1	1851.4	1278.4	470.3	2.1	0.0	0.0	0.0	0.0
80°	1249.8	1278.4	811.3	586.8	166.3	1.1	0.0	0.0	0.0	0.0
82.5°	238.3	219.2	105.9	83.7	21.2	0.0	0.0	0.0	0.0	0.0
85°	78.4	85.8	39.2	31.8	9.5	0.0	0.0	0.0	0.0	0.0
87.5°	27.5	35.0	11.7	9.5	2.1	0.0	0.0	0.0	0.0	0.0
90°	4.2	4.2	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)