

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: P522186

Luminaire Tested: **CST-CA6-230-730-U-T5R-HSS-HM-EX120**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522186
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-CA6-230-730-U-T5R-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26063 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U2 - G4

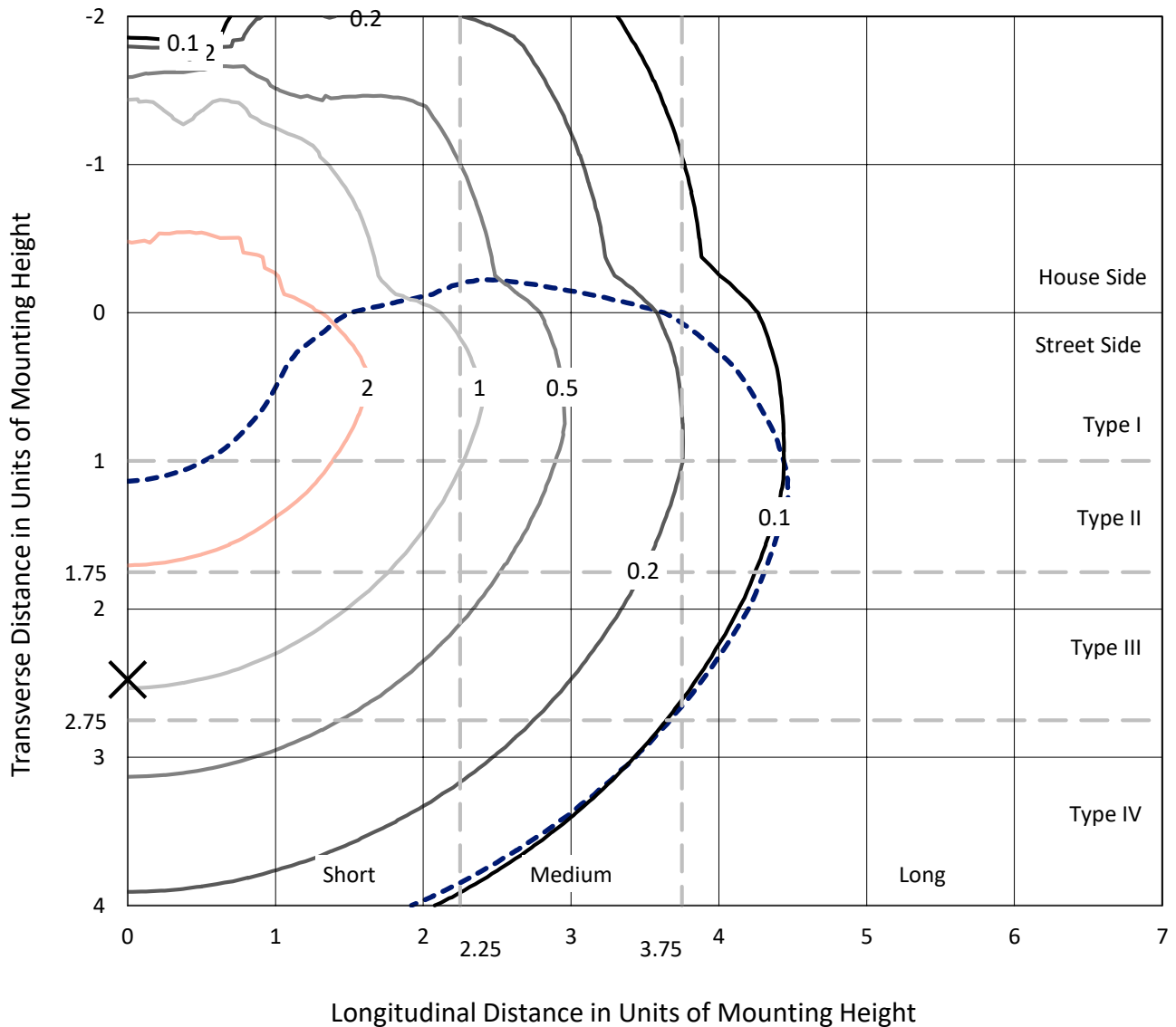
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

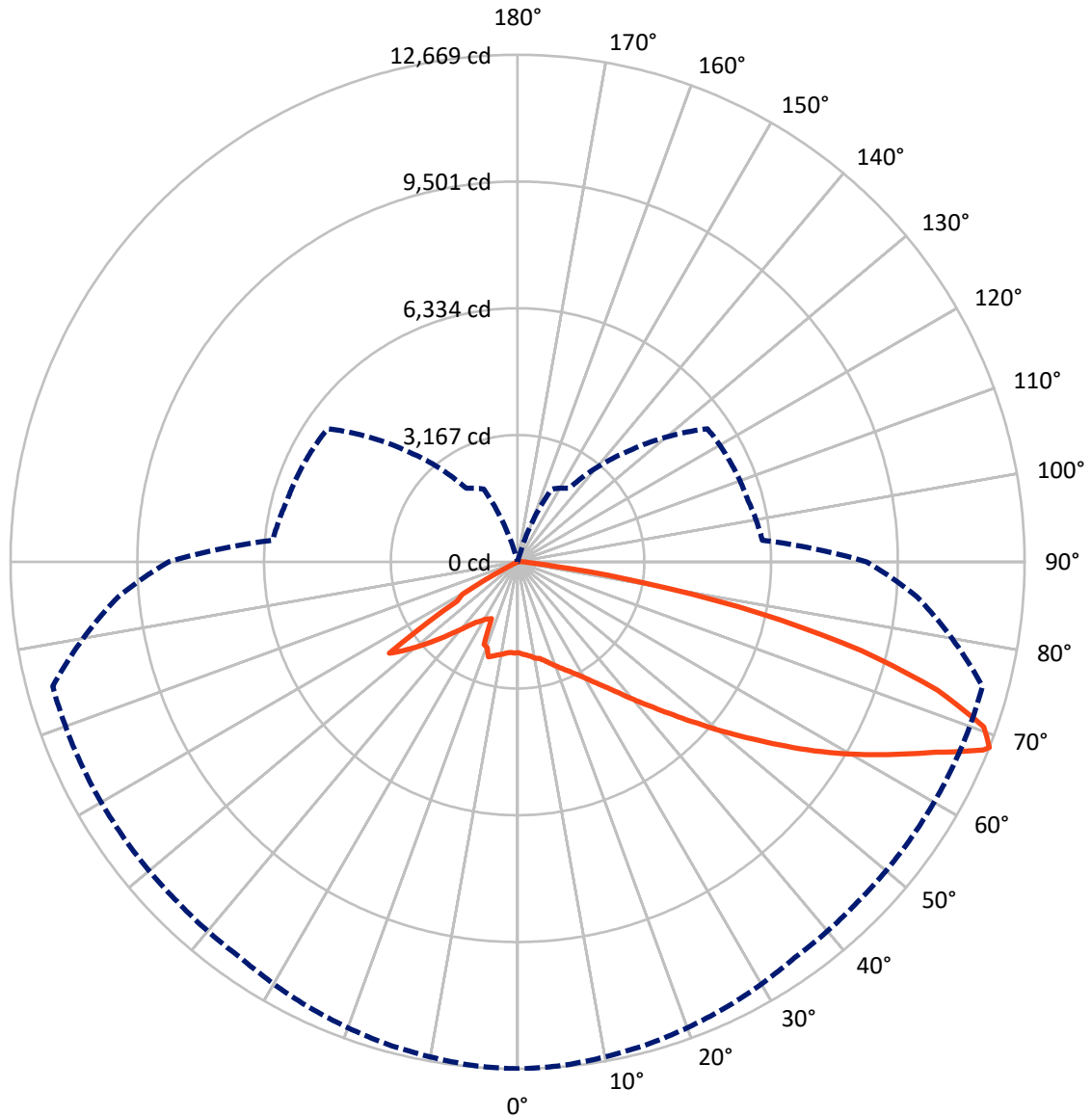
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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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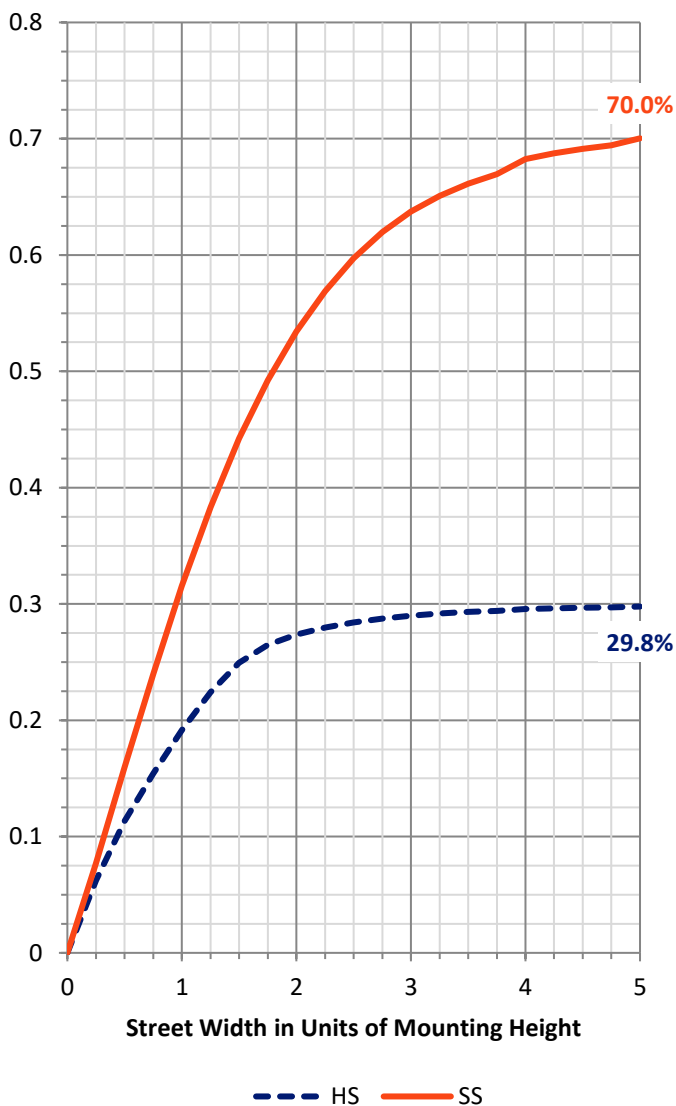
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7769.1	1.2	7770.3
	% Fixture	29.8	0.0	29.8
Street Side	Lumens	18282.0	10.7	18292.7
	% Fixture	70.1	0.0	70.2
Total	Lumens	26051.1	11.9	26063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.5	0.8
10°-20°	701.9	2.7
20°-30°	1202.2	4.6
30°-40°	1950.3	7.5
40°-50°	3289.1	12.6
50°-60°	5361.4	20.6
60°-70°	7190.5	27.6
70°-80°	5585.1	21.4
80°-90°	550.0	2.1
90°-100°	10.5	0.0
100°-110°	0.6	0.0
110°-120°	0.2	0.0
120°-130°	0.1	0.0
130°-140°	0.2	0.0
140°-150°	0.2	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	26051.1	100.0
0°-180°	26063.0	100.0

Coefficient of Utilization



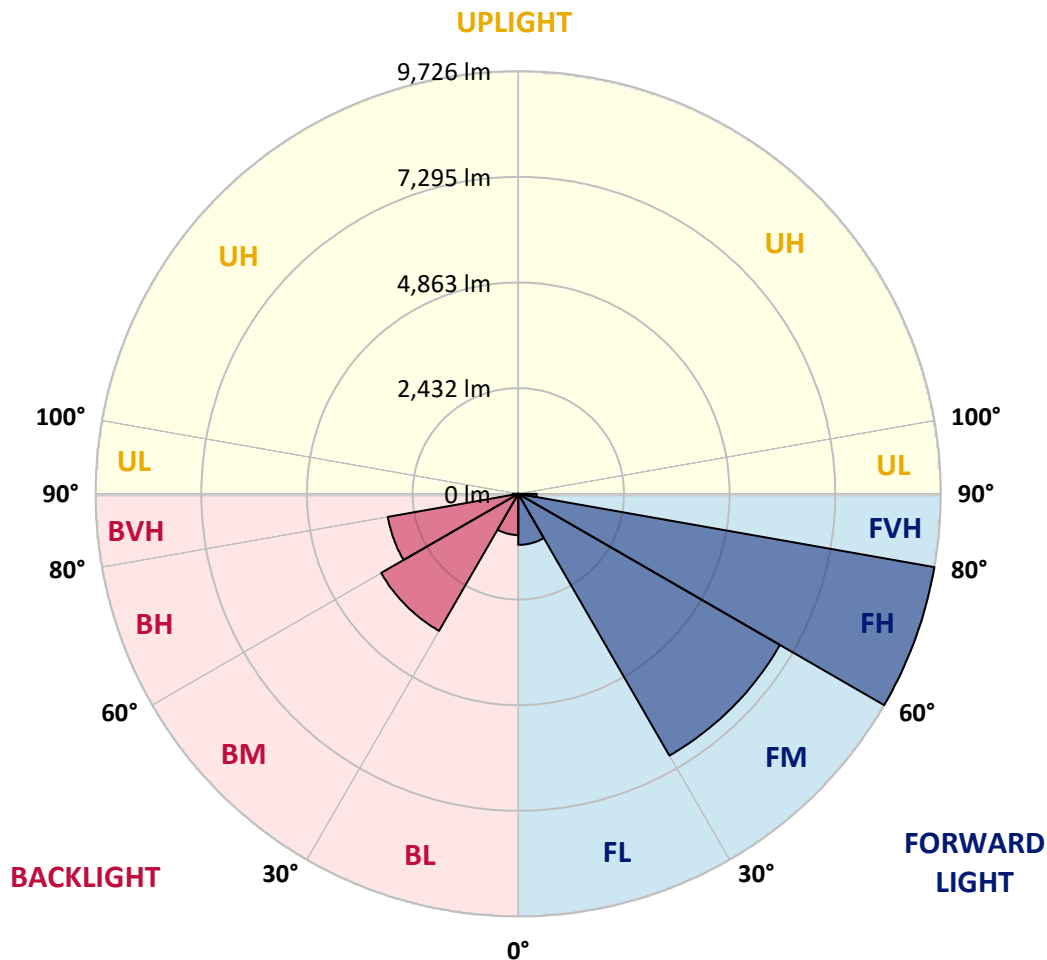
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1175.6	4.5			
FM (30°-60°)	6957.1	26.7			
FH (60°-80°)	9726.4	37.3			G4/12000
FVH (80°-90°)	422.9	1.6			G3/500
BL (0°-30°)	949.1	3.6	B2/1000		
BM (30°-60°)	3643.7	14.0	B3/5000		
BH (60°-80°)	3049.2	11.7	B4/5000		G4/5000
BVH (80°-90°)	127.1	0.5			G2/225
UL (90°-100°)	10.5	0.0		U2/50	
UH (100°-180°)	1.5	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°	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2
2.5°	2309.9	2303.5	2302.4	2315.3	2274.4	2294.8	2276.5	2291.6	2281.9	2289.5	2290.5
5°	2341.2	2329.3	2321.8	2336.9	2311.0	2320.7	2300.2	2306.7	2279.8	2294.8	2297.0
7.5°	2386.5	2367.1	2364.9	2369.2	2346.6	2354.1	2320.7	2328.3	2308.9	2300.2	2307.8
10°	2447.9	2429.6	2415.6	2425.3	2395.1	2399.4	2363.8	2364.9	2350.9	2334.7	2347.7
12.5°	2482.4	2484.6	2478.1	2485.6	2460.8	2446.8	2422.0	2413.4	2399.4	2380.0	2373.5
15°	2568.6	2564.3	2551.4	2563.2	2560.0	2547.1	2516.9	2497.5	2467.3	2456.5	2445.8
17.5°	2674.3	2660.3	2649.5	2664.6	2680.7	2653.8	2624.7	2597.7	2557.9	2536.3	2523.4
20°	2785.3	2775.6	2764.8	2788.5	2793.9	2773.4	2751.9	2712.0	2665.6	2637.6	2610.7
22.5°	2909.3	2889.8	2893.1	2924.3	2914.6	2904.9	2876.9	2844.6	2788.5	2753.0	2675.3
25°	3037.5	3026.7	3041.8	3055.8	3048.3	3027.8	3013.8	2990.1	2927.6	2884.5	2771.3
27.5°	3197.0	3179.8	3199.2	3204.6	3198.1	3192.7	3173.3	3155.0	3087.1	3038.6	2897.4
30°	3384.6	3364.1	3395.4	3387.8	3381.4	3385.7	3373.8	3333.9	3273.6	3207.8	3066.6
32.5°	3607.7	3580.8	3616.4	3600.2	3585.1	3615.3	3587.2	3549.5	3478.4	3401.9	3263.9
35°	3866.4	3867.5	3885.8	3858.9	3853.5	3885.8	3867.5	3821.2	3755.4	3675.6	3479.5
37.5°	4180.1	4171.5	4217.8	4204.9	4185.5	4228.6	4234.0	4175.8	4057.2	3978.5	3746.8
40°	4561.7	4559.5	4574.6	4576.8	4571.4	4591.9	4601.6	4523.9	4447.4	4328.8	3535.5
42.5°	4969.1	4977.7	5004.7	4985.3	5011.2	5038.1	5041.3	4976.7	4866.7	4153.1	3755.4
45°	5458.5	5485.4	5503.8	5499.4	5511.3	5550.1	5553.3	5518.8	5411.1	4499.2	4154.2
47.5°	6020.1	6045.9	6051.3	6085.8	6075.0	6130.0	6122.5	6123.5	6008.2	4981.0	4588.6
50°	6665.7	6677.6	6721.8	6741.2	6714.2	6788.6	6769.2	6792.9	6650.6	5532.9	5055.3
52.5°	7351.3	7371.8	7390.1	7463.4	7428.9	7493.6	7467.7	7522.7	7357.7	6094.4	5573.8
55°	8130.6	8133.8	8165.1	8239.5	8194.2	8271.8	8234.1	8254.6	8123.0	6715.3	6113.8
57.5°	8956.3	8945.5	8957.3	9016.6	8975.7	9033.9	9018.8	9038.2	8915.3	7368.5	6508.4
60°	9773.3	9757.1	9774.4	9814.3	9758.2	9858.5	9804.6	9822.9	9690.3	8035.7	7071.0
62.5°	10594.7	10582.8	10563.4	10603.3	10521.4	10573.1	10595.8	10565.6	10449.2	8639.4	7560.4
65°	11476.4	11464.5	11393.4	11418.2	11271.6	11246.8	11255.4	11265.1	11187.5	9237.6	8097.2
67.5°	12547.8	12530.6	12396.9	12228.8	12017.5	11971.2	11975.5	12001.3	12012.1	10007.2	8725.6
68°	12668.6	12637.3	12488.5	12293.4	12072.5	12018.6	12013.2	12018.6	12024.0	10013.7	8719.1
70°	12360.3	12348.4	12235.2	11999.2	11772.8	11643.5	11531.4	11527.1	11475.3	9501.7	8237.3
72.5°	10968.7	10953.6	10818.9	10651.8	10511.7	10309.0	10163.5	10172.1	10087.0	8397.9	7210.1
75°	8876.5	8875.4	8713.7	8573.6	8575.8	8560.7	8512.2	8597.3	8508.9	7122.8	6149.4
77.5°	6186.1	6207.6	6196.8	6114.9	6230.3	6389.8	6563.3	6727.2	6676.5	5626.6	4903.4
80°	3231.5	3291.9	3505.3	3515.0	3595.9	3751.1	3869.7	3979.6	3987.1	3192.7	2832.7
82.5°	859.1	877.4	949.6	929.1	922.7	953.9	979.8	983.0	985.2	832.1	777.2
85°	267.3	274.9	266.2	254.4	236.1	215.6	210.2	171.4	135.8	112.1	98.1
87.5°	189.7	202.6	183.2	172.5	153.1	145.5	130.4	102.4	79.8	56.1	37.7
90°	98.1	100.2	89.5	76.5	71.1	66.8	57.1	41.0	20.5	10.8	9.7
92.5°	49.6	50.7	44.2	37.7	32.3	28.0	21.6	11.9	6.5	3.2	1.1
95°	19.4	20.5	18.3	16.2	12.9	9.7	8.6	6.5	4.3	2.2	1.1
97.5°	6.5	6.5	6.5	5.4	5.4	5.4	5.4	4.3	3.2	2.2	1.1
100°	0.0	0.0	0.0	1.1	2.2	3.2	3.2	3.2	2.2	1.1	1.1
102.5°	0.0	0.0	0.0	0.0	0.0	1.1	2.2	2.2	2.2	1.1	1.1
105°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1



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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	1.1	1.1	1.1
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
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	1.1
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
165°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
170°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
175°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
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°	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2
2.5°	2285.1	2278.7	2281.9	2255.0	2261.4	2244.2	2280.8	2271.1	2266.8	2281.9
5°	2290.5	2266.8	2286.2	2267.9	2271.1	2246.3	2276.5	2264.7	2263.6	2272.2
7.5°	2292.7	2280.8	2299.2	2269.0	2278.7	2269.0	2291.6	2279.8	2290.5	2298.1
10°	2322.9	2316.4	2314.2	2303.5	2311.0	2289.5	2317.5	2317.5	2322.9	2343.4
12.5°	2367.1	2358.4	2353.1	2333.7	2341.2	2334.7	2357.4	2361.7	2371.4	2380.0
15°	2427.4	2412.3	2406.9	2389.7	2395.1	2394.0	2410.2	2411.3	2432.8	2431.7
17.5°	2505.0	2483.5	2489.9	2477.0	2478.1	2469.5	2460.8	2460.8	2480.2	2484.6
20°	2597.7	2474.9	2313.2	2222.6	2206.5	2218.3	2264.7	2341.2	2245.3	2272.2
22.5°	2430.7	2319.6	2312.1	2291.6	2278.7	1989.8	1915.4	1891.7	2015.7	2229.1
25°	2452.2	2404.8	2390.8	2364.9	1983.3	1980.1	1958.5	1923.0	1571.6	1564.0
27.5°	2566.5	2520.1	2497.5	2071.7	2063.1	2062.0	2029.7	1672.9	1592.1	1602.8
30°	2700.1	2646.2	2241.0	2176.3	2168.7	2151.5	1966.1	1652.4	1651.3	1652.4
32.5°	2854.3	2675.3	2305.6	2302.4	2306.7	2253.9	1741.9	1735.4	1734.3	1745.1
35°	3065.5	2482.4	2467.3	2483.5	2460.8	1948.8	1846.4	1843.2	1844.3	1838.9
37.5°	2925.4	2676.4	2673.2	2673.2	2620.4	1994.1	1973.6	1988.7	1986.6	1979.0
40°	2984.7	2911.4	2892.0	2885.5	2215.1	2151.5	2139.6	2159.0	2162.3	2167.7
42.5°	3272.5	3205.7	3196.0	3119.4	2410.2	2389.7	2353.1	2373.5	2371.4	2377.8
45°	3626.1	3580.8	3538.7	2704.4	2673.2	2647.3	2609.6	2633.3	2639.8	2635.5
47.5°	4037.8	3988.2	3684.3	2973.9	2972.8	2952.4	2910.3	2929.7	2926.5	2926.5
50°	4451.7	4397.8	3346.9	3316.7	3305.9	3273.6	3239.1	3242.3	3243.4	3254.2
52.5°	4914.1	3927.9	3704.7	3644.4	3653.0	3631.4	3598.0	2723.9	3581.9	3591.6
55°	4592.9	4111.1	4098.2	4018.4	4038.9	4010.9	3989.3	2687.2	3562.5	3936.5
57.5°	4541.2	4506.7	4495.9	4414.0	4439.9	4173.6	4373.0	2940.5	2464.1	1800.1
60°	4936.8	4900.1	4893.7	4821.4	4819.3	3316.7	3975.3	2016.7	1575.9	1586.7
62.5°	5320.5	5261.2	5277.4	5192.2	3660.5	2021.1	1781.8	45.3	72.2	76.5
65°	5748.4	5649.3	5665.4	5586.8	3775.9	2131.0	1926.2	23.7	20.5	19.4
67.5°	6160.2	5986.7	5903.7	5820.7	3921.4	2244.2	2007.0	6.5	0.0	0.0
68°	6139.7	5956.5	5871.3	5792.6	3906.3	2241.0	2002.7	6.5	0.0	0.0
70°	5793.7	5628.8	5547.9	5487.6	3729.5	2164.4	1921.9	6.5	0.0	0.0
72.5°	5065.0	4973.4	4921.7	4868.9	3313.5	1935.9	1723.6	6.5	0.0	0.0
75°	4304.1	4278.2	4245.8	4129.4	2761.6	1584.5	1416.4	6.5	0.0	0.0
77.5°	3410.5	3409.4	3330.7	3193.8	2079.3	1163.1	1044.5	5.4	0.0	0.0
80°	1844.3	2010.3	1949.9	1879.9	1179.2	632.7	602.5	4.3	0.0	0.0
82.5°	518.5	490.4	471.0	440.9	247.9	138.0	134.7	4.3	0.0	0.0
85°	72.2	79.8	88.4	100.2	57.1	36.6	32.3	2.2	0.0	0.0
87.5°	41.0	46.3	57.1	59.3	21.6	17.2	5.4	0.0	0.0	0.0
90°	8.6	9.7	10.8	10.8	4.3	4.3	0.0	0.0	0.0	0.0
92.5°	0.0	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	1.1	1.1	1.1	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°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	1.1	1.1	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)