

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: P522192

Luminaire Tested: **CST-CA6-230-750-U-T5R-HSS-HM-EX120**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522192
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-CA6-230-750-U-T5R-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27030 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U2 - G4

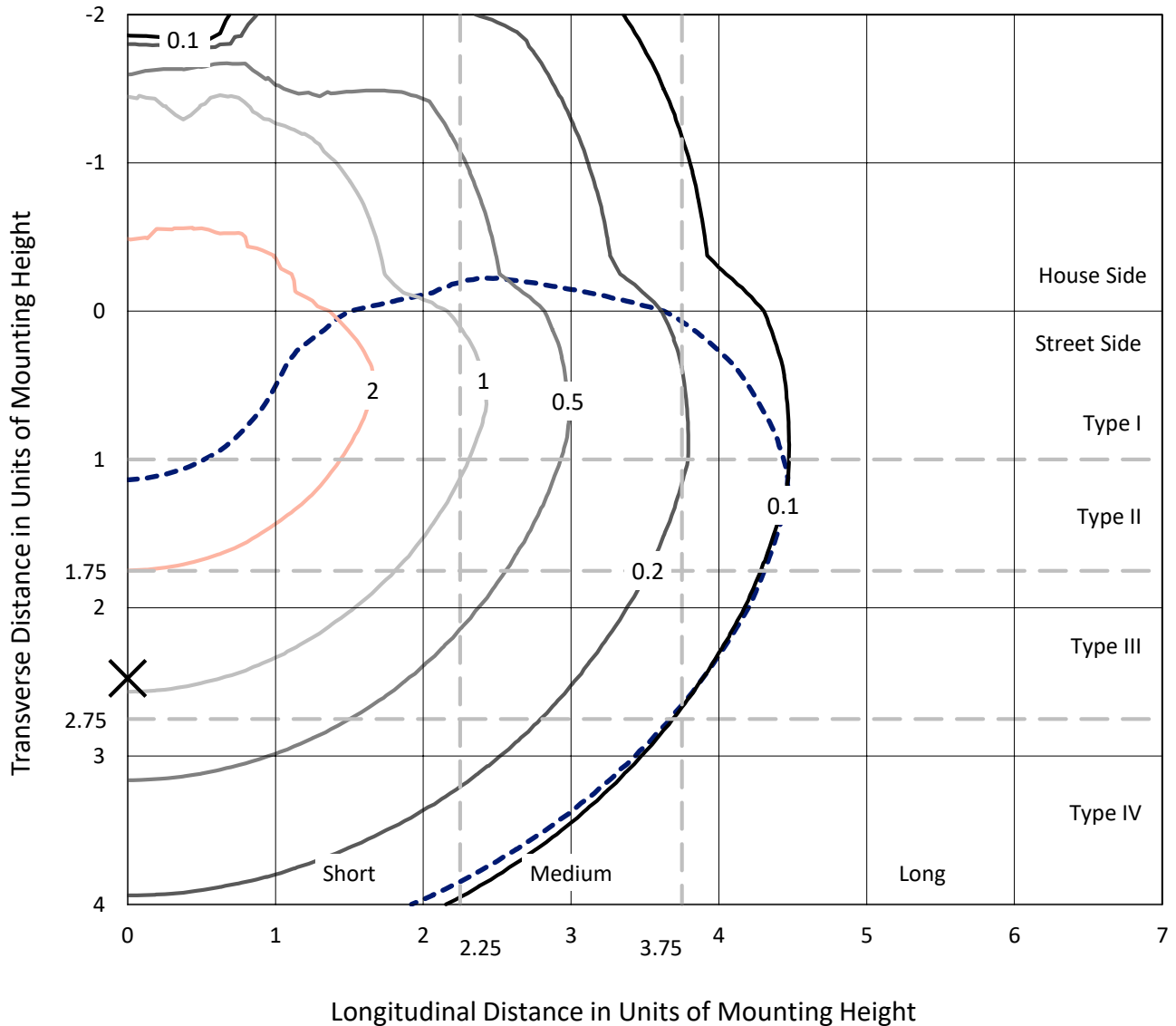
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

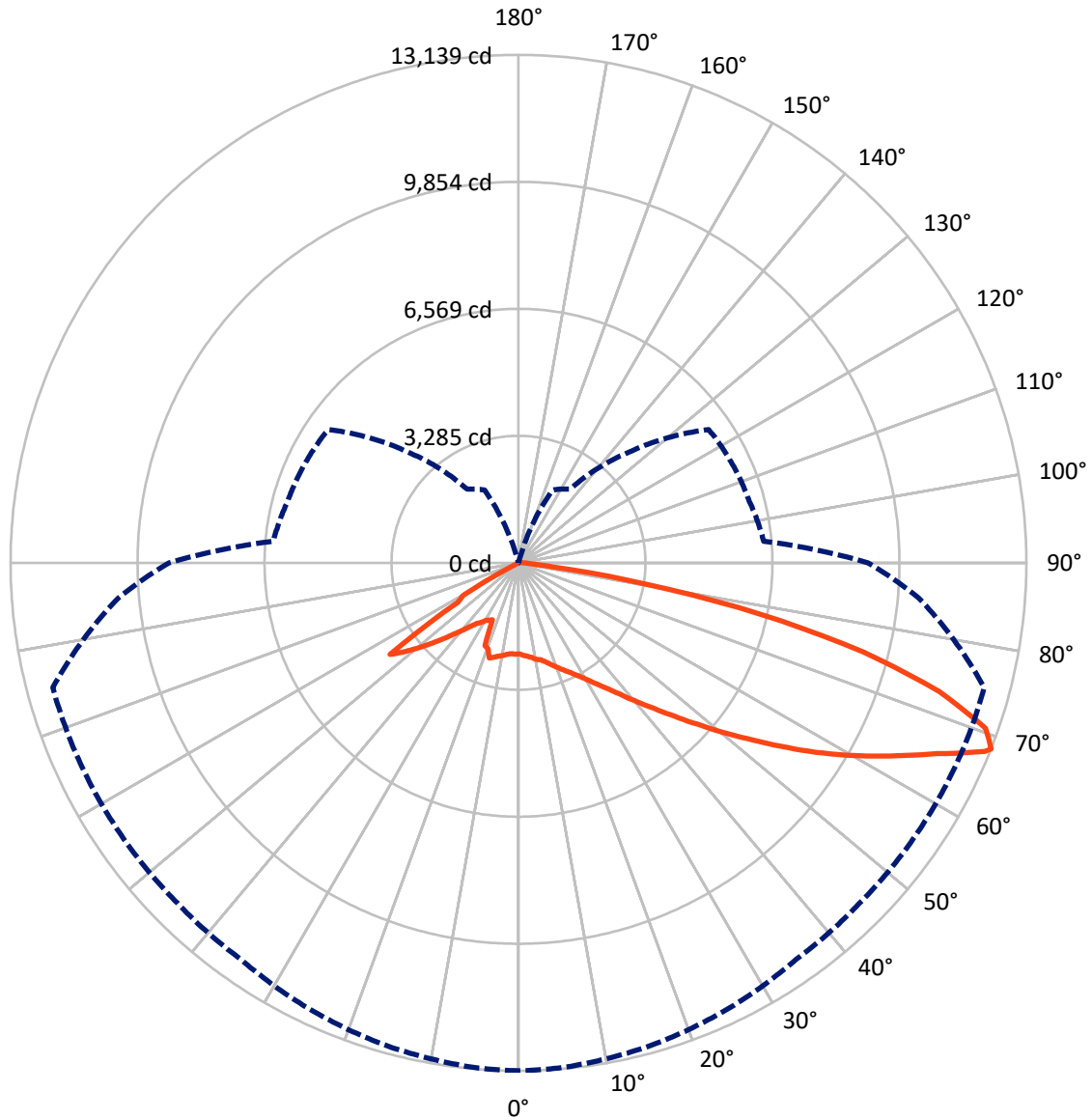
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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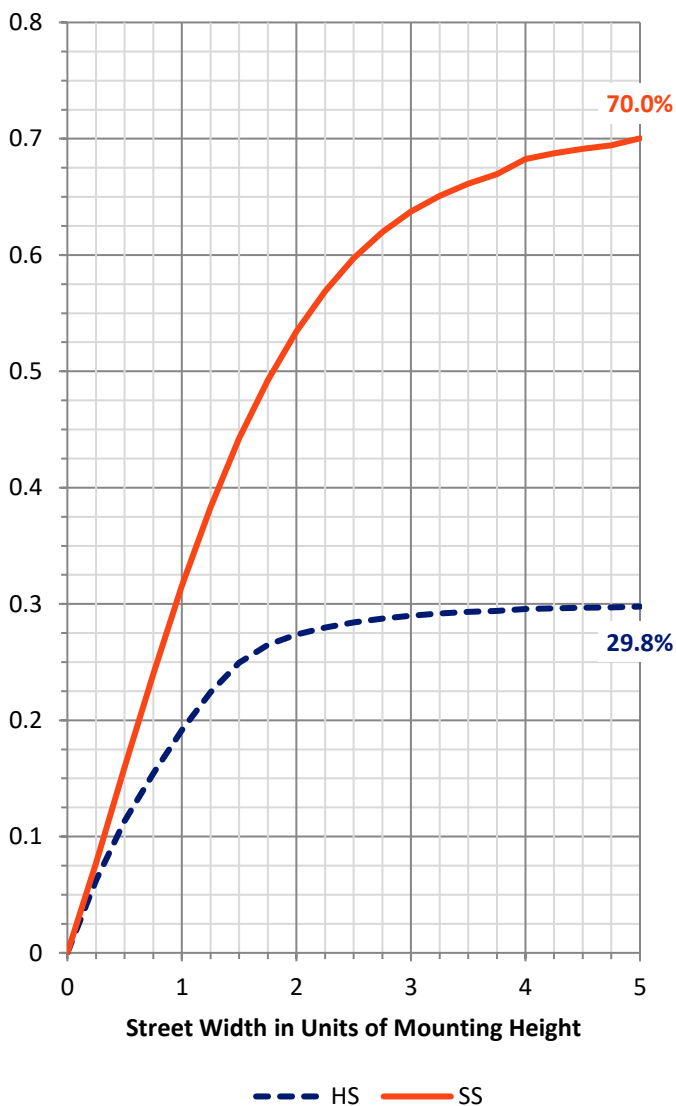
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8057.3	1.2	8058.6
	% Fixture	29.8	0.0	29.8
Street Side	Lumens	18960.3	11.1	18971.4
	% Fixture	70.1	0.0	70.2
Total	Lumens	27017.7	12.3	27030.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.7	0.8
10°-20°	727.9	2.7
20°-30°	1246.9	4.6
30°-40°	2022.7	7.5
40°-50°	3411.2	12.6
50°-60°	5560.3	20.6
60°-70°	7457.2	27.6
70°-80°	5792.3	21.4
80°-90°	570.5	2.1
90°-100°	10.8	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°	27017.7	100.0
0°-180°	27030.0	100.0

Coefficient of Utilization



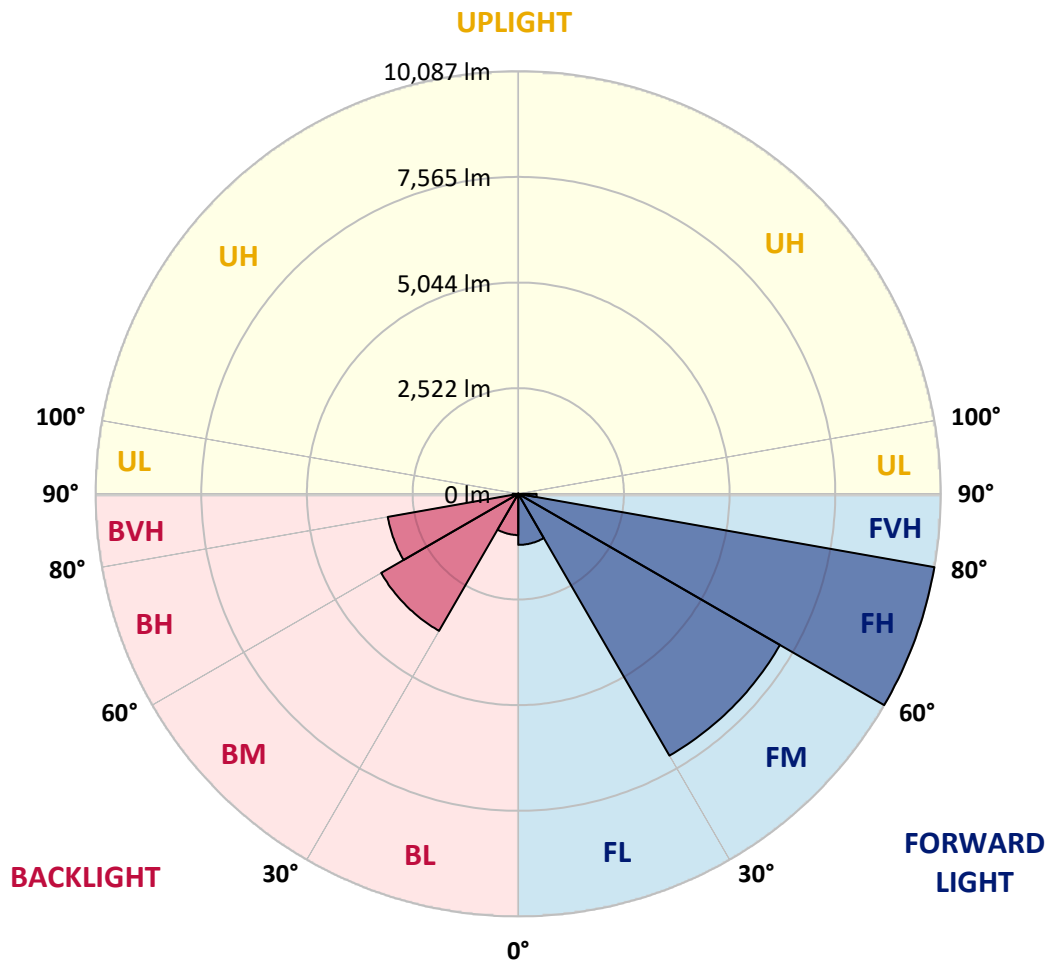
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1219.2	4.5			
FM	(30°-60°)	7215.3	26.7			
FH	(60°-80°)	10087.3	37.3			G4/12000
FVH	(80°-90°)	438.6	1.6			G3/500
BL	(0°-30°)	984.3	3.6	B2/1000		
BM	(30°-60°)	3778.9	14.0	B3/5000		
BH	(60°-80°)	3162.3	11.7	B4/5000		G4/5000
BVH	(80°-90°)	131.9	0.5			G2/225
UL	(90°-100°)	10.8	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°	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5
2.5°	2395.6	2388.9	2387.8	2401.2	2358.8	2380.0	2361.0	2376.6	2366.6	2374.4	2375.5
5°	2428.1	2415.8	2407.9	2423.6	2396.8	2406.8	2385.6	2392.3	2364.3	2380.0	2382.2
7.5°	2475.0	2454.9	2452.7	2457.1	2433.7	2441.5	2406.8	2414.6	2394.5	2385.6	2393.4
10°	2538.7	2519.7	2505.2	2515.3	2484.0	2488.4	2451.5	2452.7	2438.1	2421.4	2434.8
12.5°	2574.5	2576.7	2570.0	2577.9	2552.1	2537.6	2511.9	2503.0	2488.4	2468.3	2461.6
15°	2663.9	2659.5	2646.1	2658.3	2655.0	2641.6	2610.3	2590.2	2558.9	2547.7	2536.5
17.5°	2773.5	2759.0	2747.8	2763.4	2780.2	2752.3	2722.1	2694.1	2652.8	2630.4	2617.0
20°	2888.6	2878.6	2867.4	2892.0	2897.6	2876.3	2854.0	2812.6	2764.5	2735.5	2707.5
22.5°	3017.2	2997.1	3000.4	3032.8	3022.8	3012.7	2983.7	2950.1	2892.0	2855.1	2774.6
25°	3150.2	3139.0	3154.7	3169.2	3161.4	3140.2	3125.6	3101.0	3036.2	2991.5	2874.1
27.5°	3315.7	3297.8	3317.9	3323.5	3316.8	3311.2	3291.1	3272.1	3201.6	3151.3	3004.9
30°	3510.2	3488.9	3521.4	3513.5	3506.8	3511.3	3499.0	3457.6	3395.0	3326.8	3180.4
32.5°	3741.6	3713.6	3750.5	3733.8	3718.1	3749.4	3720.3	3681.2	3607.4	3528.1	3385.0
35°	4009.9	4011.0	4030.0	4002.1	3996.5	4030.0	4011.0	3962.9	3894.7	3812.0	3608.6
37.5°	4335.2	4326.2	4374.3	4360.9	4340.8	4385.5	4391.1	4330.7	4207.7	4126.1	3885.8
40°	4730.9	4728.7	4744.3	4746.6	4741.0	4762.2	4772.3	4691.8	4612.4	4489.5	3666.7
42.5°	5153.5	5162.4	5190.4	5170.3	5197.1	5225.0	5228.4	5161.3	5047.3	4307.2	3894.7
45°	5661.0	5689.0	5708.0	5703.5	5715.8	5756.0	5759.4	5723.6	5611.8	4666.1	4308.4
47.5°	6243.4	6270.3	6275.8	6311.6	6300.4	6357.5	6349.6	6350.7	6231.1	5165.8	4758.9
50°	6913.0	6925.3	6971.2	6991.3	6963.3	7040.5	7020.4	7045.0	6897.4	5738.1	5242.9
52.5°	7624.0	7645.3	7664.3	7740.3	7704.5	7771.6	7744.8	7801.8	7630.7	6320.6	5780.6
55°	8432.3	8435.6	8468.0	8545.2	8498.2	8578.7	8539.6	8560.8	8424.4	6964.5	6340.7
57.5°	9288.6	9277.4	9289.7	9351.2	9308.7	9369.1	9353.4	9373.5	9246.1	7641.9	6749.8
60°	10135.9	10119.2	10137.0	10178.4	10120.3	10224.2	10168.3	10187.4	10049.8	8333.9	7333.4
62.5°	10987.8	10975.5	10955.3	10996.7	10911.7	10965.4	10988.9	10957.6	10836.8	8959.9	7840.9
65°	11902.2	11889.9	11816.1	11841.8	11689.8	11664.1	11673.0	11683.1	11602.6	9580.3	8397.6
67.5°	13013.4	12995.5	12856.9	12682.5	12463.4	12415.3	12419.8	12446.6	12457.8	10378.5	9049.3
68°	13138.6	13106.2	12951.9	12749.6	12520.4	12464.5	12458.9	12464.5	12470.1	10385.2	9042.6
70°	12818.9	12806.6	12689.2	12444.4	12209.6	12075.5	11959.2	11954.7	11901.1	9854.2	8542.9
72.5°	11375.7	11360.0	11220.3	11047.0	10901.7	10691.5	10540.6	10549.5	10461.2	8709.5	7477.6
75°	9205.8	9204.7	9037.0	8891.7	8893.9	8878.3	8828.0	8916.3	8824.6	7387.0	6377.6
77.5°	6415.6	6437.9	6426.8	6341.8	6461.4	6626.9	6806.8	6976.8	6924.2	5835.4	5085.3
80°	3351.4	3414.0	3635.4	3645.4	3729.3	3890.3	4013.2	4127.3	4135.1	3311.2	2937.8
82.5°	891.0	910.0	984.9	963.6	956.9	989.3	1016.2	1019.5	1021.8	863.0	806.0
85°	277.2	285.1	276.1	263.8	244.8	223.6	218.0	177.7	140.9	116.3	101.7
87.5°	196.7	210.2	190.0	178.9	158.7	150.9	135.3	106.2	82.7	58.1	39.1
90°	101.7	104.0	92.8	79.4	73.8	69.3	59.2	42.5	21.2	11.2	10.1
92.5°	51.4	52.5	45.8	39.1	33.5	29.1	22.4	12.3	6.7	3.4	1.1
95°	20.1	21.2	19.0	16.8	13.4	10.1	8.9	6.7	4.5	2.2	1.1
97.5°	6.7	6.7	6.7	5.6	5.6	5.6	5.6	4.5	3.4	2.2	1.1
100°	0.0	0.0	0.0	1.1	2.2	3.4	3.4	3.4	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°	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5
2.5°	2369.9	2363.2	2366.6	2338.6	2345.3	2327.5	2365.5	2355.4	2350.9	2366.6
5°	2375.5	2350.9	2371.0	2352.0	2355.4	2329.7	2361.0	2348.7	2347.6	2356.5
7.5°	2377.8	2365.5	2384.5	2353.2	2363.2	2353.2	2376.6	2364.3	2375.5	2383.3
10°	2409.1	2402.4	2400.1	2388.9	2396.8	2374.4	2403.5	2403.5	2409.1	2430.3
12.5°	2454.9	2445.9	2440.4	2420.2	2428.1	2421.4	2444.8	2449.3	2459.4	2468.3
15°	2517.5	2501.8	2496.3	2478.4	2484.0	2482.8	2499.6	2500.7	2523.1	2522.0
17.5°	2598.0	2575.6	2582.3	2568.9	2570.0	2561.1	2552.1	2552.1	2572.3	2576.7
20°	2694.1	2566.7	2399.0	2305.1	2288.3	2300.6	2348.7	2428.1	2328.6	2356.5
22.5°	2520.8	2405.7	2397.9	2376.6	2363.2	2063.6	1986.5	1961.9	2090.5	2311.8
25°	2543.2	2494.0	2479.5	2452.7	2056.9	2053.6	2031.2	1994.3	1629.9	1622.1
27.5°	2661.7	2613.6	2590.2	2148.6	2139.6	2138.5	2105.0	1735.0	1651.1	1662.3
30°	2800.3	2744.4	2324.1	2257.0	2249.2	2231.3	2039.0	1713.7	1712.6	1713.7
32.5°	2960.2	2774.6	2391.2	2387.8	2392.3	2337.5	1806.5	1799.8	1798.7	1809.9
35°	3179.3	2574.5	2558.9	2575.6	2552.1	2021.1	1914.9	1911.6	1912.7	1907.1
37.5°	3034.0	2775.7	2772.4	2772.4	2717.6	2068.1	2046.9	2062.5	2060.3	2052.4
40°	3095.4	3019.4	2999.3	2992.6	2297.3	2231.3	2219.0	2239.1	2242.5	2248.1
42.5°	3393.9	3324.6	3314.5	3235.2	2499.6	2478.4	2440.4	2461.6	2459.4	2466.1
45°	3760.6	3713.6	3670.0	2804.8	2772.4	2745.5	2706.4	2731.0	2737.7	2733.2
47.5°	4187.6	4136.2	3821.0	3084.3	3083.1	3061.9	3018.3	3038.4	3035.1	3035.1
50°	4616.9	4561.0	3471.1	3439.8	3428.6	3395.0	3359.3	3362.6	3363.7	3374.9
52.5°	5096.5	4073.6	3842.2	3779.6	3788.5	3766.2	3731.5	2824.9	3714.8	3724.8
55°	4763.3	4263.6	4250.2	4167.5	4188.7	4159.7	4137.3	2786.9	3694.6	4082.5
57.5°	4709.7	4673.9	4662.7	4577.8	4604.6	4328.5	4535.3	3049.6	2555.5	1866.9
60°	5119.9	5081.9	5075.2	5000.3	4998.1	3439.8	4122.8	2091.6	1634.4	1645.5
62.5°	5517.9	5456.4	5473.2	5384.9	3796.4	2096.0	1847.9	47.0	74.9	79.4
65°	5961.7	5858.9	5875.6	5794.0	3916.0	2210.1	1997.7	24.6	21.2	20.1
67.5°	6388.8	6208.8	6122.7	6036.6	4066.9	2327.5	2081.5	6.7	0.0	0.0
68°	6367.5	6177.5	6089.2	6007.6	4051.2	2324.1	2077.0	6.7	0.0	0.0
70°	6008.7	5837.6	5753.8	5691.2	3867.9	2244.7	1993.2	6.7	0.0	0.0
72.5°	5253.0	5158.0	5104.3	5049.5	3436.4	2007.7	1787.5	6.7	0.0	0.0
75°	4463.7	4436.9	4403.4	4282.6	2864.0	1643.3	1468.9	6.7	0.0	0.0
77.5°	3537.0	3535.9	3454.3	3312.3	2156.4	1206.2	1083.2	5.6	0.0	0.0
80°	1912.7	2084.9	2022.3	1949.6	1223.0	656.2	624.9	4.5	0.0	0.0
82.5°	537.7	508.6	488.5	457.2	257.1	143.1	139.7	4.5	0.0	0.0
85°	74.9	82.7	91.7	104.0	59.2	38.0	33.5	2.2	0.0	0.0
87.5°	42.5	48.1	59.2	61.5	22.4	17.9	5.6	0.0	0.0	0.0
90°	8.9	10.1	11.2	11.2	4.5	4.5	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)