

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 768351_250MP

Luminaire Tested: **TRU25PXX4F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768351_250MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TRU25PXX4F
Description: ARCHITECTURAL AREA LUMINAIRE - TYPE IV
Light Source: 250 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 22000 (1 lamp)
Luminaire Lumens: 12466.6 lumens
Efficiency: 56.7%
Efficacy: 44.1 lumens/watt
Luminous Opening: Rectangular (W 1.08' x L: 1.08' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 283
Input Voltage (V): NR
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: 28.75 FT

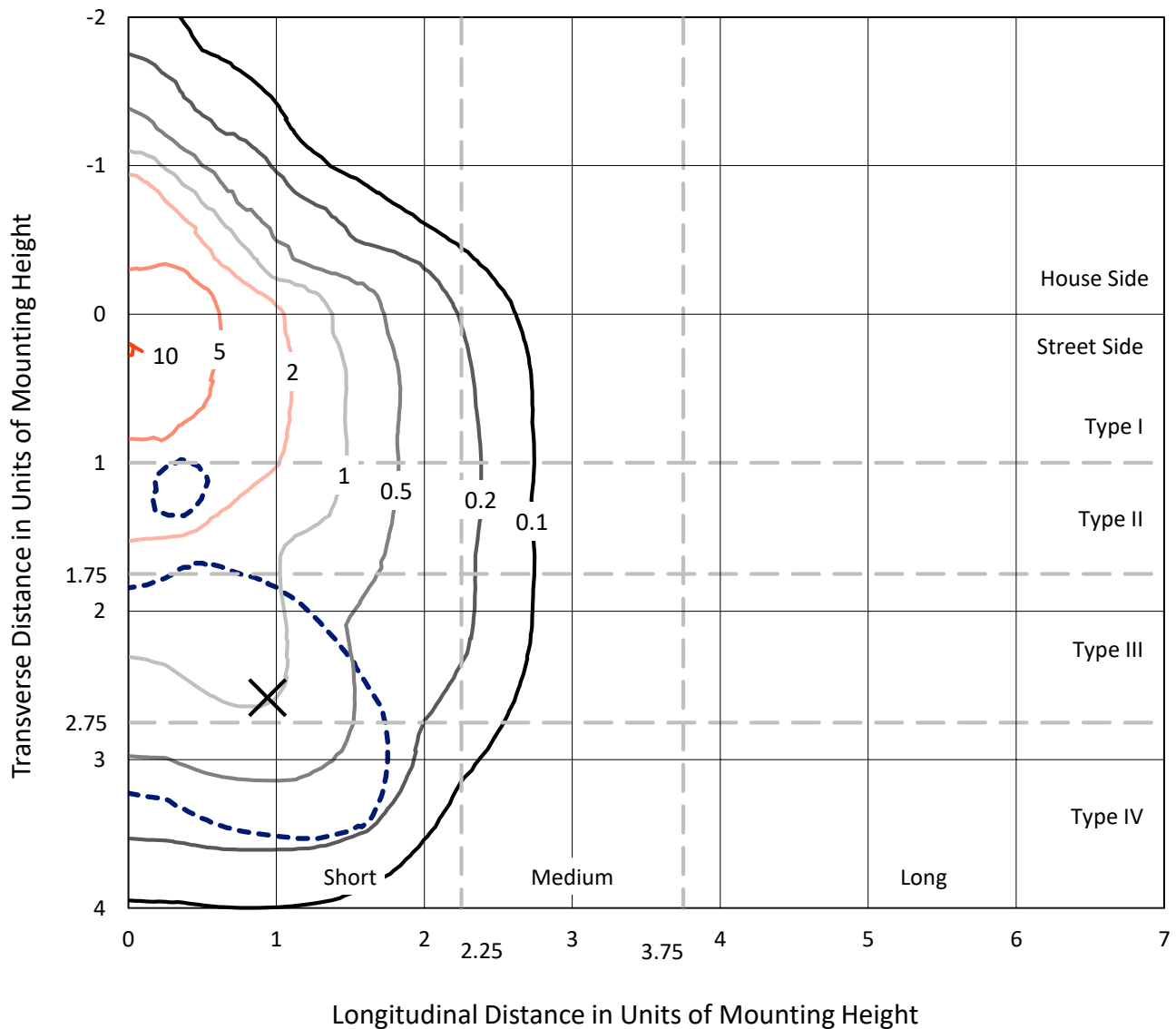


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Iso-Footcandle Lines of Horizontal Illumination

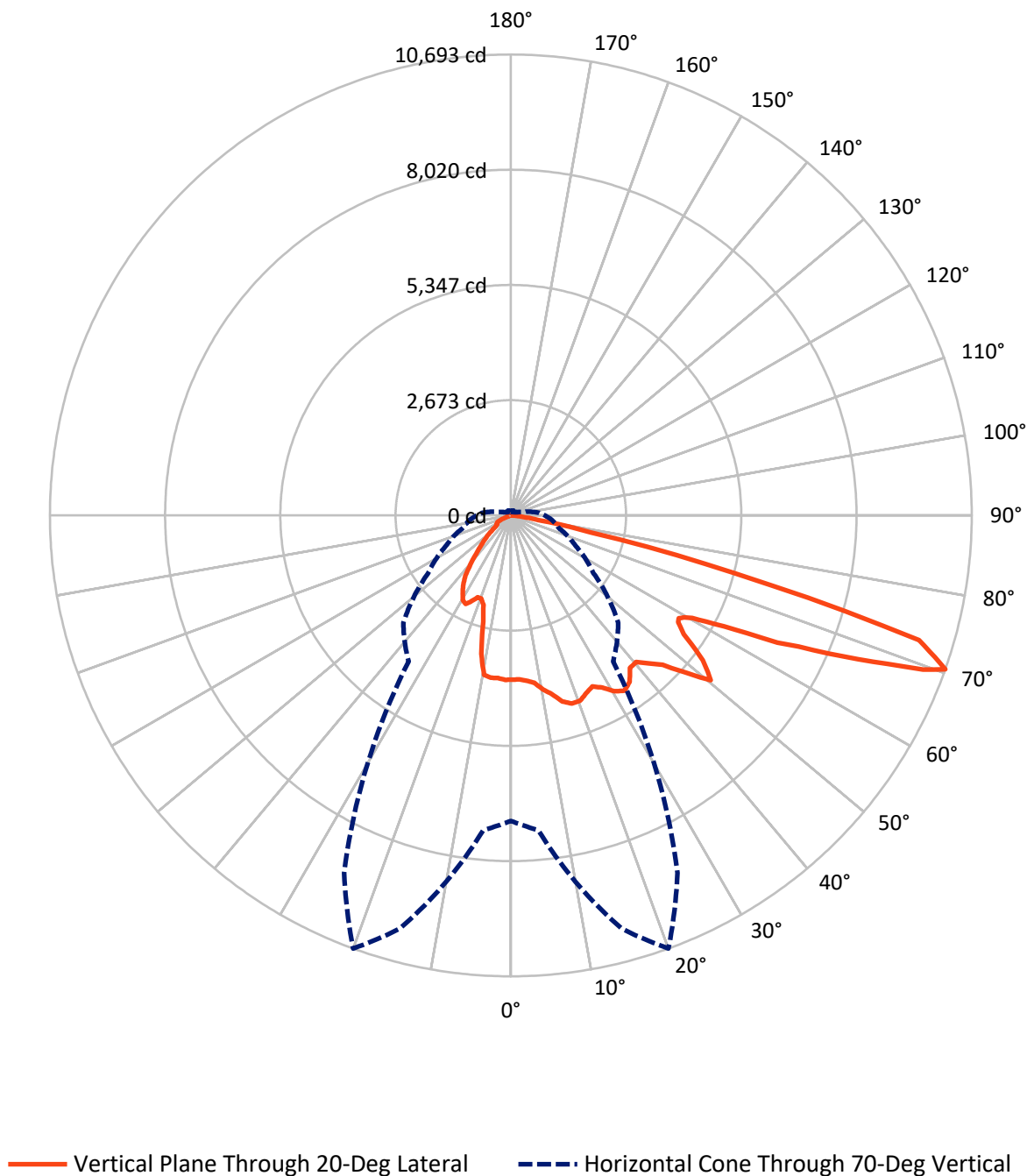
× Max cd
- - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.3 fc
Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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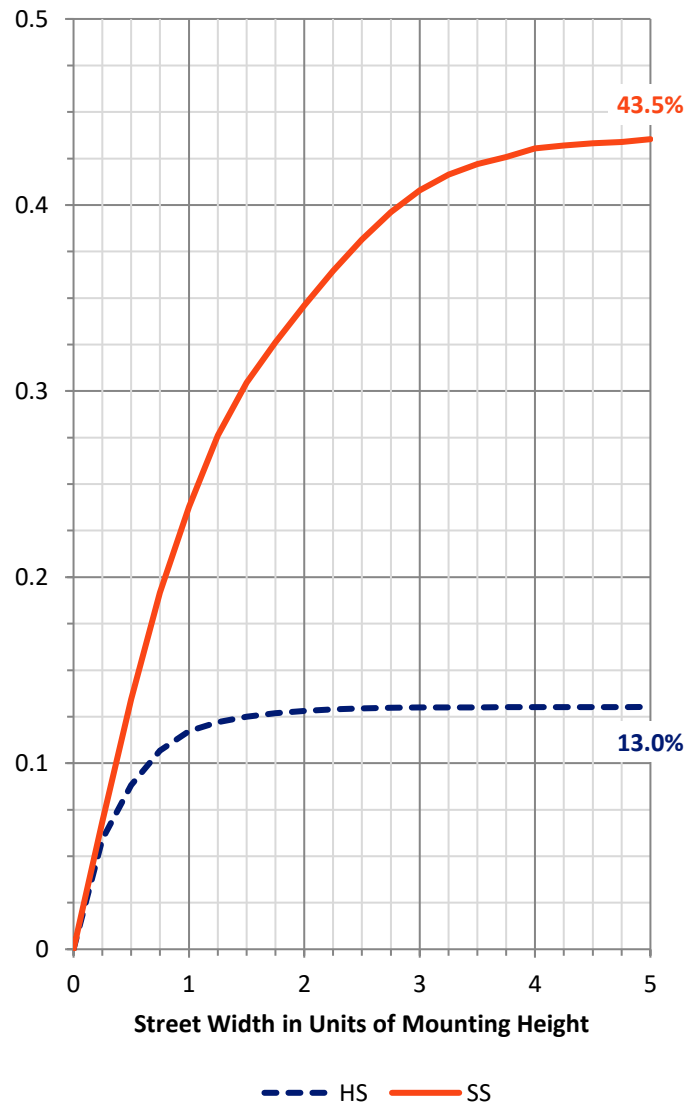
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2883.5	0.0	2883.5
	% Lamp	13.1	0.0	13.1
Street Side	Lumens	9583.1	0.0	9583.1
	% Lamp	43.6	0.0	43.6
Total	Lumens	12466.6	0.0	12466.6
	% Lamp	56.7	0.0	56.7

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	365.2	2.9	1.7
10°-20°	1071.3	8.6	4.9
20°-30°	1608.1	12.9	7.3
30°-40°	1847.5	14.8	8.4
40°-50°	1962.4	15.7	8.9
50°-60°	1993.9	16.0	9.1
60°-70°	2184.7	17.5	9.9
70°-80°	1347.5	10.8	6.1
80°-90°	86.0	0.7	0.4
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	12466.6	100.0	56.7
0°-180°	12466.6	100.0	56.7

Coefficient of Utilization

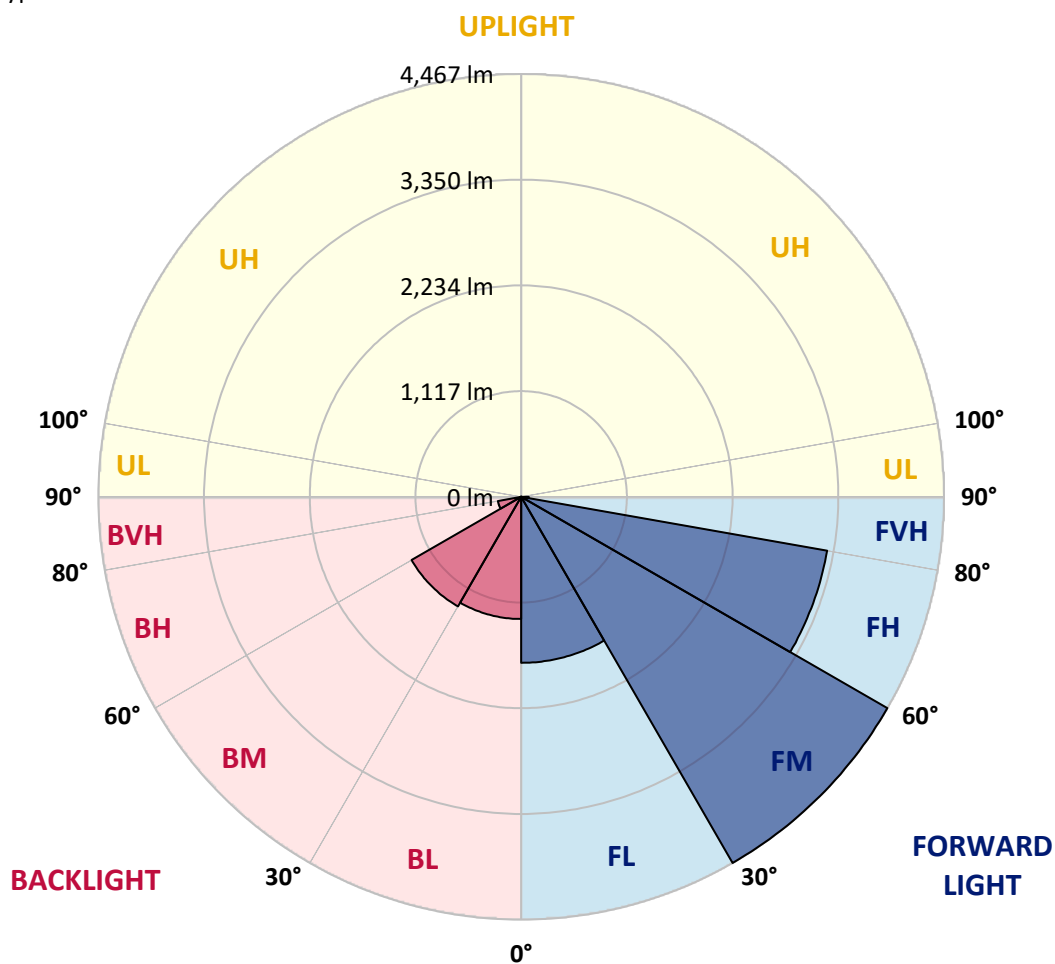


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1754.0	8.0			
FM	(30°-60°)	4467.3	20.3			
FH	(60°-80°)	3282.5	14.9			G2/5000
FVH	(80°-90°)	79.4	0.4			G1/100
BL	(0°-30°)	1290.6	5.9	B3/2500		
BM	(30°-60°)	1336.6	6.1	B2/2500		
BH	(60°-80°)	249.7	1.1	B1/500		G1/500
BVH	(80°-90°)	6.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		9533.4	43.3			

BUG Rating: B3-U0-G2
Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	20°	25°	35°	45°	55°	65°	75°	85°
0°	3809.9	3809.9	3809.9	3809.9	3809.9	3809.9	3809.9	3809.9	3809.9	3809.9	3809.9
2.5°	3822.2	3815.4	3811.9	3808.5	3808.5	3798.2	3791.3	3794.7	3798.2	3805.0	3805.0
5°	3863.5	3863.5	3851.8	3851.8	3847.7	3829.1	3805.0	3787.9	3772.1	3777.5	3777.5
7.5°	3973.5	3966.6	3939.1	3921.9	3915.0	3856.6	3818.8	3787.9	3760.4	3767.2	3777.5
10°	4269.1	4236.1	4128.2	4104.8	4049.1	3972.1	3928.8	3889.6	3863.5	3846.3	3862.1
12.5°	4383.2	4365.3	4308.3	4255.3	4203.8	4097.2	4004.4	3952.8	3942.5	3935.7	3970.0
15°	4557.8	4539.2	4502.8	4478.8	4416.9	4283.5	4162.5	4056.0	3999.6	3983.8	4028.5
17.5°	4667.8	4657.5	4609.4	4588.7	4579.1	4447.8	4306.9	4170.1	4056.0	3994.8	4066.3
20°	4489.1	4499.4	4568.1	4592.2	4619.7	4557.8	4410.0	4231.3	4097.2	4007.8	4051.8
22.5°	4303.5	4303.5	4374.9	4478.1	4546.8	4561.2	4413.4	4210.6	4080.0	3997.5	4045.7
25°	4330.9	4316.5	4344.7	4396.3	4399.7	4361.9	4289.7	4104.1	3956.3	4042.2	3983.8
27.5°	4482.2	4471.9	4526.9	4520.0	4465.0	4227.8	4077.3	3880.7	3866.9	3918.5	3784.4
30°	4557.8	4571.6	4722.8	4733.1	4660.9	4251.9	3884.1	3760.4	3712.9	3646.2	3394.6
32.5°	4626.6	4628.6	4812.2	4847.9	4781.9	4348.1	3787.9	3616.7	3557.6	3451.0	3176.0
35°	4592.2	4585.3	4760.6	4746.9	4674.7	4365.3	3887.5	3557.6	3361.6	3317.0	2937.5
37.5°	4440.9	4468.4	4516.6	4485.6	4429.9	4330.9	4113.0	3576.8	3344.5	3196.7	2756.7
40°	4434.1	4413.4	4504.9	4475.3	4327.5	4179.7	4289.7	3729.4	3382.3	3050.9	2739.5
42.5°	4440.9	4492.5	4812.2	4691.9	4414.8	4025.0	4261.5	3833.2	3351.3	3038.5	2598.6
45°	4537.2	4540.6	4963.4	4942.8	4678.1	4035.3	4193.5	3839.4	3396.0	2976.7	2488.6
47.5°	4825.9	4702.2	5437.7	5446.0	5078.2	4183.8	4121.3	3769.3	3375.4	2863.2	2406.1
50°	5100.9	4956.5	5961.6	6013.1	5365.6	4337.8	4162.5	3662.1	3186.3	2725.7	2223.9
52.5°	5066.5	5039.0	5674.9	5582.1	5039.0	4344.7	4272.5	3608.4	2969.8	2604.8	2021.1
55°	4956.5	4929.0	5138.7	4867.2	4533.7	4231.3	4277.3	3605.7	2921.7	2478.3	1984.7
57°	4828.0	4744.1	4922.2	4605.9	4261.5	4038.8	4269.1	3622.9	2822.0	2409.5	1863.0
58°	4757.2	4702.2	4915.3	4568.1	4152.2	3956.3	4262.2	3631.8	2706.5	2309.8	1814.9
59°	4743.4	4719.4	5001.2	4661.6	4157.0	3891.7	4276.0	3619.4	2615.1	2213.6	1732.4
60°	4819.0	4850.0	5194.4	4838.3	4241.6	3844.9	4257.4	3578.2	2512.0	2158.6	1691.1
61°	4996.4	5085.1	5520.9	5158.6	4489.1	3805.0	4192.8	3471.6	2430.1	2076.1	1643.0
62°	5342.2	5420.6	5886.7	5578.7	4767.5	3751.4	4090.3	3303.2	2336.6	2003.9	1589.4
63°	5767.7	5726.5	6459.3	6121.1	5241.8	3732.9	3970.0	3134.1	2241.1	1910.4	1529.6
64°	6022.1	6098.4	7039.5	6853.9	5753.3	3755.6	3839.4	2993.9	2165.5	1783.9	1457.4
65°	6166.4	6336.2	7469.9	7338.6	6197.4	3811.9	3750.1	2866.7	2120.8	1698.7	1382.5
66°	6248.9	6455.2	7976.5	8039.8	6788.6	3897.9	3674.4	2753.2	2065.8	1616.2	1292.4
67°	6397.4	6622.2	8337.4	8716.9	7379.8	3994.1	3585.8	2639.8	1992.9	1515.8	1185.9
68°	6726.7	6850.5	8823.4	9404.3	7888.5	4076.6	3536.9	2543.6	1893.9	1411.3	1106.8
69°	7012.0	7170.1	9510.9	10205.2	8476.3	4117.8	3530.1	2468.6	1804.6	1299.3	1024.3
70°	7087.6	7328.9	9920.6	10693.3	9150.0	4135.0	3523.2	2340.8	1649.9	1158.4	924.6
72.5°	5458.4	5713.4	8444.0	9902.7	9205.0	4107.5	3220.7	1890.5	1026.4	726.6	606.3
75°	3203.5	3375.4	4578.4	5331.2	5633.7	3004.2	2144.9	1225.7	633.1	596.7	509.4
77.5°	1574.3	1539.9	1858.9	1893.9	1460.1	901.2	809.1	906.1	505.3	492.2	378.1
80°	989.9	941.8	794.7	644.8	503.2	308.7	375.3	481.9	429.7	337.5	228.9
82.5°	503.2	510.8	341.0	290.8	250.2	165.0	158.8	191.1	177.4	122.4	96.2
85°	153.3	150.6	130.6	140.9	143.0	111.4	79.7	57.1	48.1	44.0	32.3
87.5°	47.4	55.0	46.1	50.9	57.7	44.0	23.4	13.1	8.2	6.2	6.2
90°	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3809.9	3809.9	3809.9	3809.9	3809.9	3809.9	3809.9	3809.9	3809.9	3809.9	3809.9
2.5°	3805.0	3810.5	3815.4	3815.4	3819.5	3822.2	3822.2	3818.8	3815.4	3815.4	3815.4
5°	3777.5	3788.5	3791.3	3793.4	3785.8	3787.9	3781.0	3784.4	3787.9	3791.3	3794.7
7.5°	3786.5	3801.6	3811.9	3791.3	3769.3	3767.2	3784.4	3794.7	3791.3	3795.4	3808.5
10°	3856.6	3860.0	3860.0	3808.5	3795.4	3808.5	3808.5	3769.3	3727.4	3693.0	3705.4
12.5°	3990.0	4018.2	3981.7	3889.6	3866.9	3815.4	3616.0	3396.7	3165.7	3014.5	3017.9
15°	4086.9	4131.6	4062.8	3952.8	3891.7	3622.9	3103.8	2671.4	2413.0	2309.2	2289.2
17.5°	4148.1	4210.6	4080.0	3985.2	3784.4	3268.8	2660.4	2276.8	2065.8	1990.2	1986.7
20°	4145.3	4231.3	4056.0	3990.7	3538.3	2897.6	2492.0	2172.3	1921.4	1821.7	1808.0
22.5°	4117.8	4166.0	3928.8	3798.2	3193.2	2808.2	2436.3	2158.6	1942.1	1838.9	1828.6
25°	4045.7	4049.1	3753.5	3375.4	2801.4	2677.6	2384.8	2261.7	2100.2	1955.8	1929.0
27.5°	3787.9	3761.1	3413.2	2731.2	2421.2	2354.5	2369.6	2375.8	2239.0	2065.1	2028.0
30°	3425.6	3381.6	2972.5	2158.6	1952.4	1979.9	2274.1	2313.3	2199.8	2182.7	2162.7
32.5°	3134.8	3079.8	2536.7	1660.2	1578.4	1673.9	1973.0	2031.4	2175.8	2481.7	2502.3
35°	2890.0	2849.5	2191.6	1457.4	1354.3	1436.8	1665.0	1792.9	2100.2	2767.0	2901.0
37.5°	2760.1	2660.4	1893.2	1267.0	1123.3	1289.0	1342.6	1577.7	1918.0	2791.1	2976.0
40°	2729.2	2523.6	1502.1	1120.5	1019.5	1099.9	1130.2	1309.6	1632.7	2509.2	2722.3
42.5°	2608.9	2327.0	1179.0	1048.4	910.9	864.8	907.4	1077.2	1321.3	2003.2	2124.2
45°	2516.1	2223.9	1038.1	873.1	807.8	677.8	742.4	869.6	1113.0	1566.7	1676.7
47.5°	2379.3	2069.2	917.1	680.6	654.5	553.4	635.2	719.8	934.9	1225.7	1292.4
50°	2162.7	1948.2	739.0	661.3	489.5	496.3	534.8	611.1	740.4	1032.6	1099.9
52.5°	1976.4	1812.8	653.8	651.7	427.6	448.2	460.6	486.7	552.0	952.1	1051.8
55°	1979.9	1653.3	611.8	561.0	378.8	372.6	404.9	341.0	486.7	859.3	976.2
57°	1739.3	1570.8	583.6	478.5	349.2	323.8	341.0	342.4	440.7	733.5	818.1
58°	1687.7	1543.3	580.9	468.2	331.4	297.7	333.4	344.4	429.0	660.6	725.9
59°	1622.4	1498.6	585.0	459.9	316.2	272.9	330.0	349.2	400.8	621.5	688.8
60°	1585.3	1443.6	582.3	444.8	294.9	253.0	323.8	352.0	385.7	598.1	660.0
61°	1528.2	1381.8	580.2	422.1	268.1	235.1	319.7	350.6	375.3	589.8	649.0
62°	1460.8	1292.4	575.4	390.5	246.1	219.3	314.2	349.9	367.1	591.9	655.1
63°	1385.2	1185.9	565.1	356.8	225.5	200.7	301.8	344.4	355.4	592.6	661.3
64°	1309.6	1110.2	546.5	330.0	206.9	187.0	286.0	331.4	336.2	578.1	655.1
65°	1230.5	1020.9	525.9	312.8	193.2	173.2	255.0	306.6	321.0	561.6	624.2
66°	1144.6	923.2	476.4	294.2	180.8	161.6	219.3	270.9	288.7	527.3	573.3
67°	1055.2	851.8	435.2	258.5	169.1	147.8	188.4	233.0	249.5	468.2	521.1
68°	979.6	781.6	389.1	226.2	158.8	133.4	158.1	191.1	208.3	366.4	417.3
69°	889.6	728.7	340.3	198.7	145.1	118.2	129.9	156.1	160.2	178.1	224.8
70°	784.4	666.1	300.4	173.2	132.0	105.2	112.1	125.1	97.6	81.8	85.2
72.5°	488.1	402.8	232.4	132.7	98.3	79.7	67.4	58.4	50.9	48.8	49.5
75°	422.1	325.2	182.9	91.4	66.7	57.1	35.7	33.7	33.7	33.7	31.6
77.5°	303.2	235.8	121.0	60.5	39.2	34.4	22.7	19.9	20.6	19.9	18.6
80°	180.8	138.2	73.6	39.9	25.4	21.3	14.4	10.3	9.6	10.3	10.3
82.5°	80.4	63.9	40.6	20.6	13.7	10.3	7.6	5.5	5.5	6.2	8.2
85°	26.8	30.9	15.1	8.9	4.8	2.7	2.1	1.4	3.4	3.4	2.7
87.5°	4.8	4.8	2.1	1.4	0.7	0.0	0.0	0.0	0.0	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)