

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: 768359_320MP

Luminaire Tested: **TRU32PXX5F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768359_320MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TRU32PXX5F
Description: ARCHITECTURAL AREA LUMINAIRE - TYPE V
Light Source: 320 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 30000 (1 lamp)
Luminaire Lumens: 19617.5 lumens
Efficiency: 65.4%
Efficacy: 56.0 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

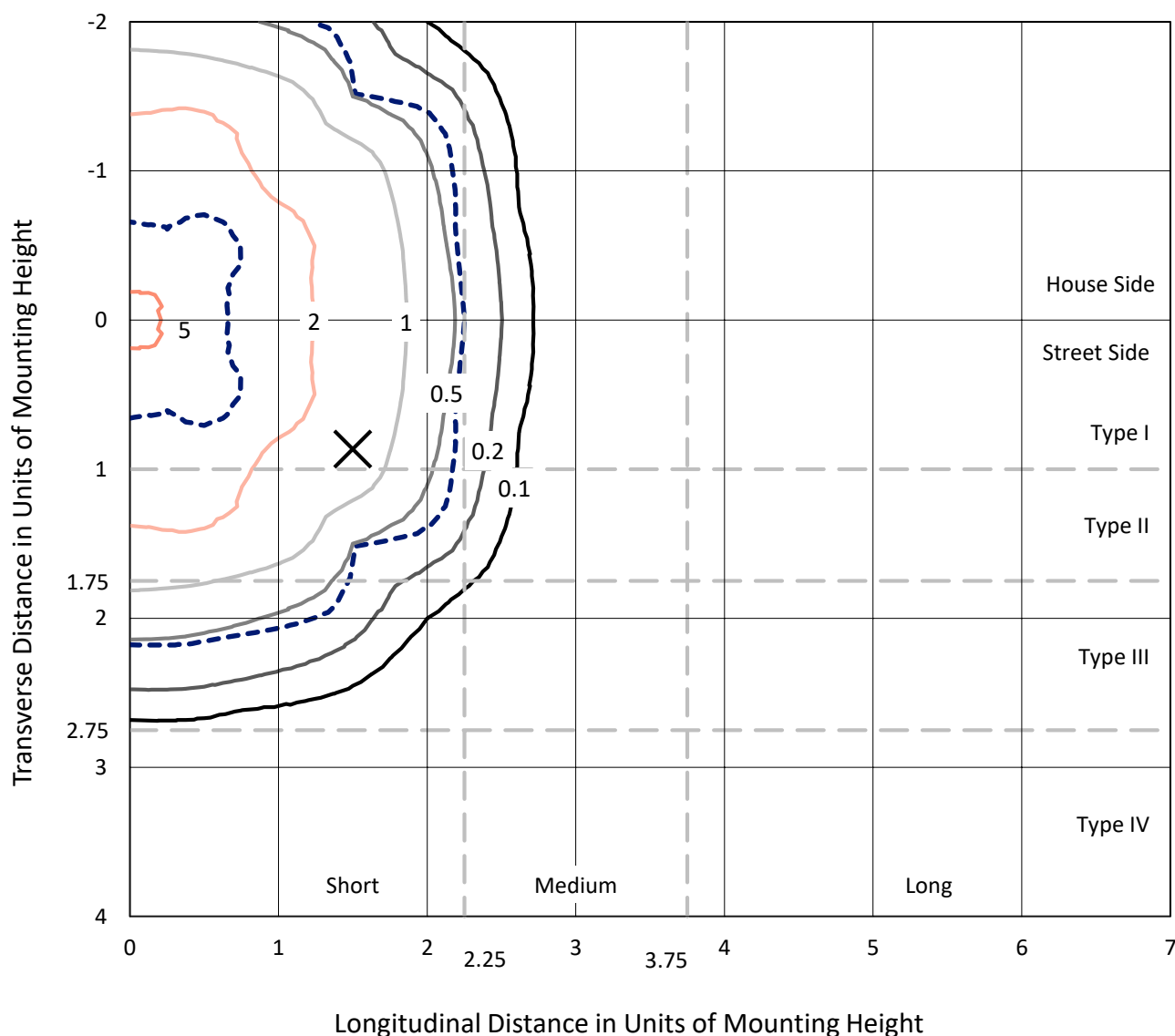
Input Watts (W): 350
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

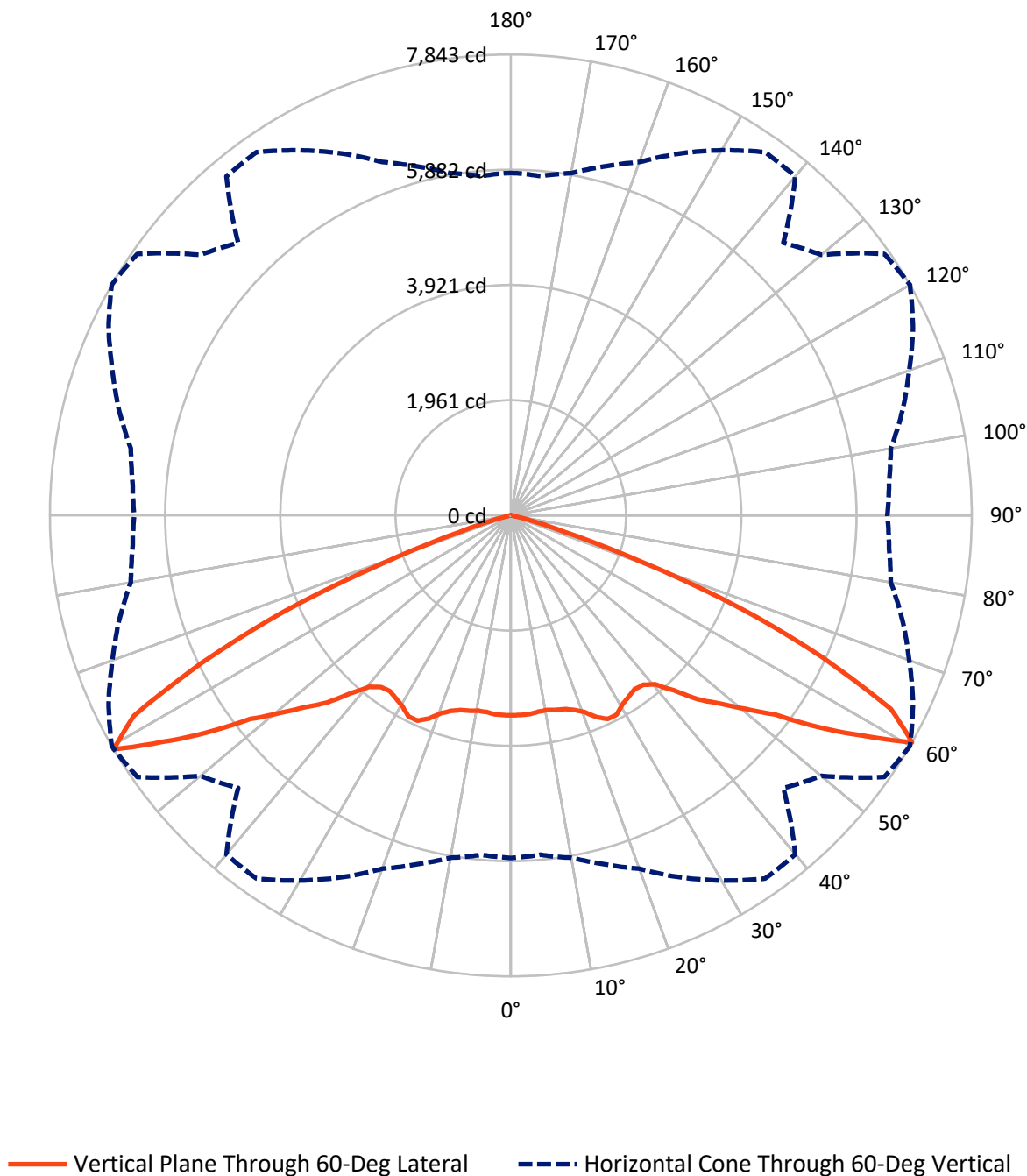
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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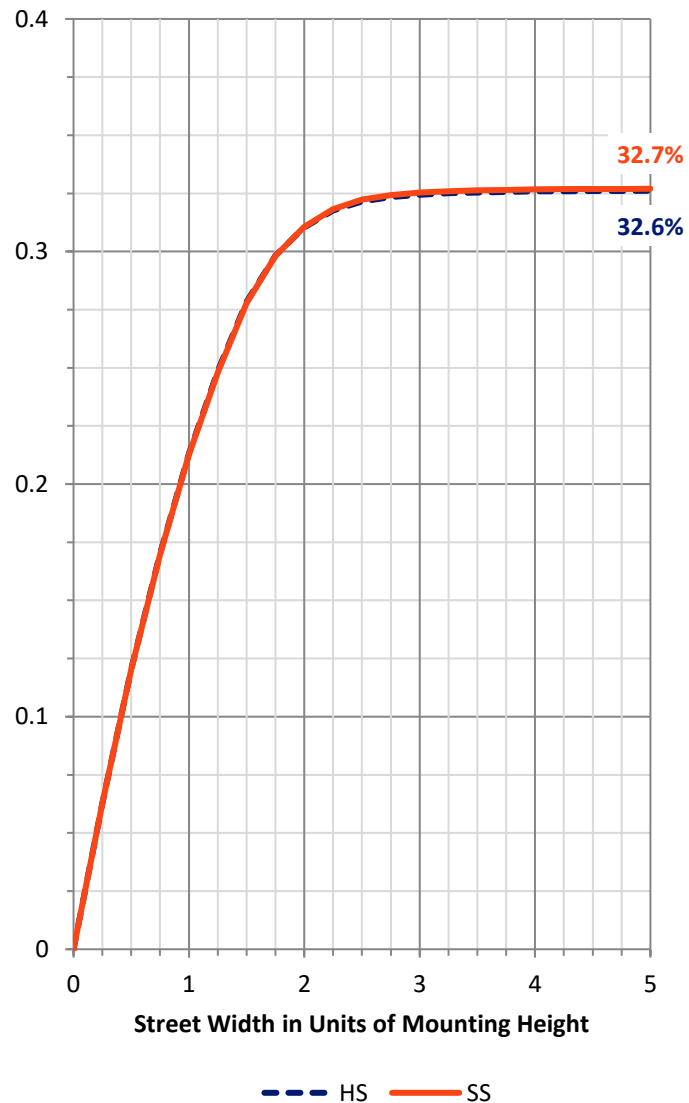
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9808.7	0.0	9808.7
	% Lamp	32.7	0.0	32.7
Street Side	Lumens	9808.7	0.0	9808.7
	% Lamp	32.7	0.0	32.7
Total	Lumens	19617.5	0.0	19617.5
	% Lamp	65.4	0.0	65.4

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	320.9	1.6	1.1
10°-20°	962.7	4.9	3.2
20°-30°	1685.4	8.6	5.6
30°-40°	2464.8	12.6	8.2
40°-50°	3498.8	17.8	11.7
50°-60°	5609.3	28.6	18.7
60°-70°	4508.4	23.0	15.0
70°-80°	547.9	2.8	1.8
80°-90°	19.2	0.1	0.1
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°	19617.5	100.0	65.4
0°-180°	19617.5	100.0	65.4

Coefficient of Utilization

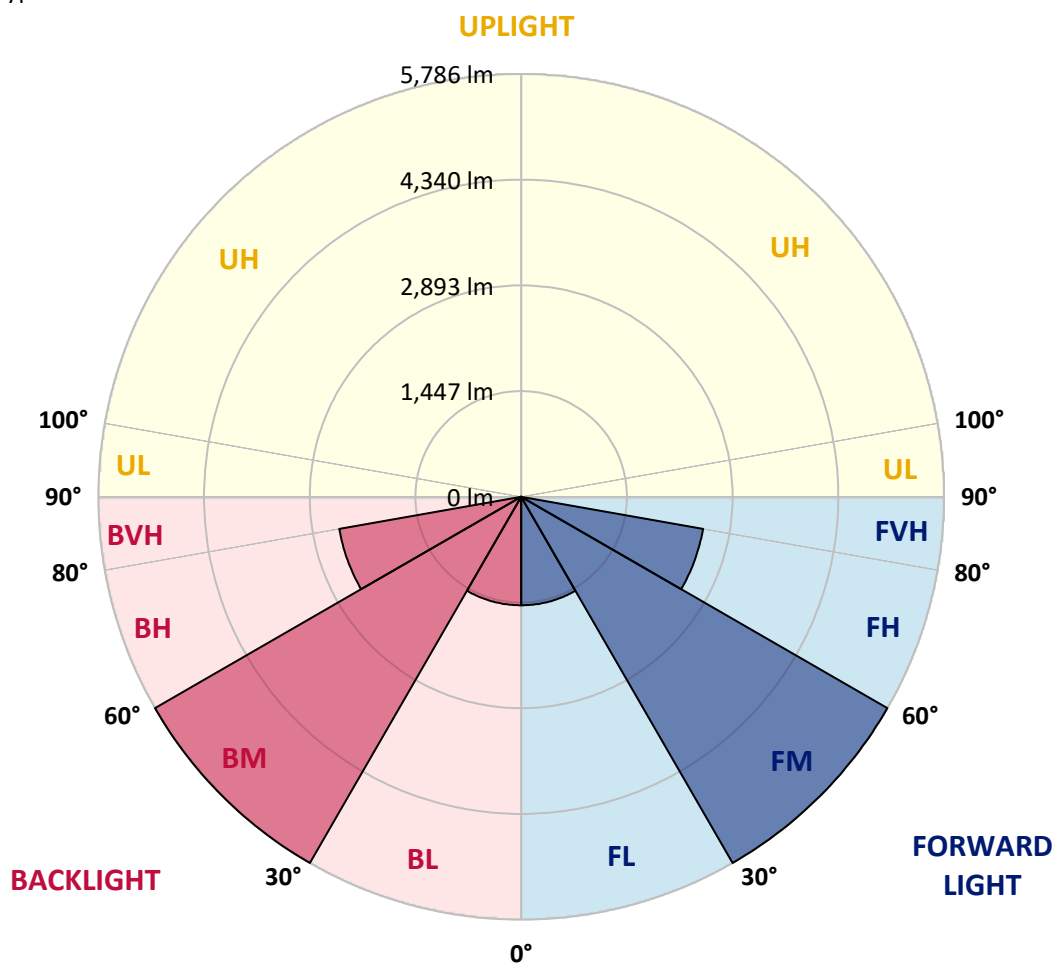


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1484.5	4.9			
FM	(30°-60°)	5786.4	19.3			
FH	(60°-80°)	2528.2	8.4			G2/5000
FVH	(80°-90°)	9.6	0.0			G0/10
BL	(0°-30°)	1484.5	4.9	B3/2500		
BM	(30°-60°)	5786.4	19.3	B4/8500		
BH	(60°-80°)	2528.2	8.4	B4/5000		G2/5000
BVH	(80°-90°)	9.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		10382.5	34.6			

BUG Rating: B4-U0-G2
Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3401.7	3401.7	3401.7	3401.7	3401.7	3401.7	3401.7	3401.7	3401.7	3401.7	3401.7
2.5°	3397.2	3393.4	3393.4	3393.4	3394.9	3397.2	3394.2	3393.4	3394.9	3397.2	3401.0
5°	3355.6	3355.6	3357.2	3355.6	3360.9	3368.5	3372.3	3376.0	3382.1	3382.1	3390.4
7.5°	3306.5	3308.0	3306.5	3311.8	3318.6	3314.1	3326.9	3339.8	3348.1	3353.4	3363.2
10°	3283.8	3281.6	3277.8	3278.6	3291.4	3300.5	3314.1	3334.5	3346.6	3363.2	3367.0
12.5°	3280.8	3281.6	3289.9	3292.2	3304.2	3321.6	3338.3	3353.4	3371.5	3387.4	3400.2
15°	3321.6	3324.7	3326.9	3334.5	3338.3	3364.7	3379.8	3396.5	3404.8	3423.7	3423.7
17.5°	3359.4	3370.8	3391.2	3408.5	3423.7	3427.4	3442.6	3454.6	3469.0	3476.6	3484.1
20°	3401.0	3418.4	3447.8	3466.7	3490.2	3499.2	3510.6	3529.5	3541.6	3552.1	3564.2
22.5°	3435.0	3446.3	3478.1	3527.2	3549.9	3571.8	3595.2	3610.3	3639.1	3673.1	3699.5
25°	3446.3	3470.5	3518.1	3574.8	3658.0	3697.3	3729.0	3738.8	3732.0	3767.5	3817.4
27.5°	3472.8	3503.0	3553.7	3623.9	3716.1	3812.9	3863.5	3840.8	3822.0	3837.1	3874.9
30°	3567.3	3584.6	3617.1	3678.4	3752.4	3839.3	3888.5	3865.8	3831.8	3823.5	3824.2
32.5°	3765.3	3786.4	3828.0	3872.6	3854.5	3824.2	3778.9	3766.8	3753.9	3771.3	3747.9
35°	4103.9	4139.4	4194.6	4146.9	4047.2	3859.0	3716.1	3665.5	3678.4	3688.2	3679.1
37.5°	4519.5	4558.1	4587.6	4478.0	4262.6	4016.9	3809.1	3669.3	3646.6	3663.2	3629.2
40°	4693.4	4706.2	4738.0	4655.6	4455.3	4180.9	3946.7	3771.3	3716.1	3712.4	3672.3
42.5°	4572.4	4611.7	4648.0	4675.2	4570.2	4391.1	4198.3	4030.5	3918.7	3888.5	3863.5
45°	4386.5	4413.7	4496.1	4590.6	4640.5	4617.8	4513.5	4338.1	4281.5	4153.0	4236.1
47.5°	4372.2	4383.5	4494.6	4598.9	4729.6	4810.5	4810.5	4755.3	4683.5	4583.8	4611.7
50°	4708.5	4698.7	4855.9	4963.2	5071.3	5161.9	5173.3	5184.6	5122.6	5037.2	5048.6
52.5°	5573.8	5651.7	5793.0	5966.1	5944.2	5764.3	5666.8	5571.6	5499.8	5285.9	5341.1
55°	6586.6	6628.9	6832.2	7009.8	7119.4	6977.3	6706.7	6381.0	5953.2	5518.7	5573.8
57.5°	6525.4	6489.8	6745.3	7049.1	7236.5	7343.9	7421.7	7398.3	7033.2	6021.3	6303.2
60°	5827.8	5796.0	5913.9	6143.7	6397.6	6792.1	7173.1	7543.4	7529.0	6558.6	6894.2
62.5°	5103.0	5116.6	5168.0	5309.3	5462.0	5631.3	6162.6	6607.0	6409.0	5589.7	6254.0
65°	4124.3	4158.3	4249.0	4281.5	4373.7	4552.0	4842.3	5082.6	4693.4	3857.5	4690.3
67.5°	2667.9	2763.9	2912.8	2945.3	3175.8	3373.8	3574.1	3738.8	3307.3	2756.3	3283.1
70°	1175.2	1239.5	1312.8	1383.8	1558.4	1841.1	2164.5	2219.7	2027.0	1949.9	2132.8
72.5°	651.5	665.8	648.5	647.7	675.7	771.6	879.0	901.6	891.1	737.6	889.5
75°	273.6	291.0	288.7	282.7	284.2	326.5	379.4	391.5	322.0	305.3	312.9
77.5°	75.6	76.3	78.6	77.1	76.3	77.1	86.2	95.2	107.3	108.8	114.9
80°	45.3	45.3	46.1	43.1	43.8	46.9	48.4	50.6	52.9	59.0	58.2
82.5°	26.5	25.7	24.9	24.2	24.2	24.9	25.7	24.9	25.7	28.0	28.0
85°	13.6	13.6	12.8	13.6	13.6	13.6	12.1	11.3	12.1	12.8	12.8
87.5°	7.6	6.8	6.8	6.8	6.0	4.5	4.5	3.8	3.8	4.5	3.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3401.7	3401.7	3401.7	3401.7	3401.7	3401.7	3401.7	3401.7	3401.7	3401.7	3401.7
2.5°	3398.0	3399.5	3404.8	3402.5	3402.5	3404.8	3402.5	3408.5	3402.5	3404.8	3402.5
5°	3395.7	3395.7	3400.2	3401.0	3406.3	3410.1	3412.3	3412.3	3412.3	3410.1	3406.3
7.5°	3370.8	3370.8	3375.3	3380.6	3382.8	3378.3	3378.3	3374.5	3378.3	3378.3	3382.8
10°	3376.0	3367.7	3364.0	3363.2	3357.2	3349.6	3345.8	3338.3	3345.8	3349.6	3357.2
12.5°	3404.8	3397.2	3387.4	3372.3	3354.1	3340.5	3323.1	3321.6	3323.1	3340.5	3354.1
15°	3427.4	3419.1	3407.8	3378.3	3359.4	3342.0	3330.7	3329.9	3330.7	3342.0	3359.4
17.5°	3475.1	3478.1	3446.3	3423.7	3397.2	3367.0	3342.0	3336.7	3342.0	3367.0	3397.2
20°	3576.3	3571.0	3549.9	3508.3	3446.3	3401.0	3361.7	3355.6	3361.7	3401.0	3446.3
22.5°	3731.3	3727.5	3659.5	3587.7	3512.1	3446.3	3394.9	3385.9	3394.9	3446.3	3512.1
25°	3858.2	3837.8	3756.2	3650.4	3562.0	3493.2	3447.8	3429.7	3447.8	3493.2	3562.0
27.5°	3892.2	3837.1	3729.0	3643.6	3597.5	3548.4	3513.6	3495.5	3513.6	3548.4	3597.5
30°	3814.4	3736.6	3692.0	3650.4	3644.3	3627.7	3612.6	3623.9	3612.6	3627.7	3644.3
32.5°	3718.4	3678.4	3677.6	3719.2	3758.5	3794.0	3802.3	3791.7	3802.3	3794.0	3758.5
35°	3641.3	3629.2	3707.1	3855.2	3964.8	4050.2	4085.0	4088.7	4085.0	4050.2	3964.8
37.5°	3612.6	3658.0	3806.8	4013.2	4211.2	4328.3	4379.7	4409.9	4379.7	4328.3	4211.2
40°	3692.0	3778.1	3992.0	4211.2	4374.4	4505.2	4632.9	4694.9	4632.9	4505.2	4374.4
42.5°	3942.9	4068.3	4251.2	4413.7	4479.5	4580.0	4719.8	4803.0	4719.8	4580.0	4479.5
45°	4311.7	4464.4	4549.8	4562.6	4536.2	4538.4	4606.4	4682.0	4606.4	4538.4	4536.2
47.5°	4736.4	4780.3	4827.9	4689.6	4600.4	4518.8	4541.5	4557.3	4541.5	4518.8	4600.4
50°	5137.0	5175.5	5082.6	4978.3	4871.0	4753.8	4757.6	4750.0	4757.6	4753.8	4871.0
52.5°	5505.8	5626.7	5653.2	5567.8	5412.9	5328.2	5335.8	5394.7	5335.8	5328.2	5412.9
55°	6133.9	6367.4	6251.8	6422.6	6470.9	6523.1	6416.5	6300.9	6416.5	6523.1	6470.9
57.5°	7056.7	7079.3	7253.9	7390.7	7331.0	7137.5	6990.9	6915.3	6990.9	7137.5	7331.0
60°	7758.0	7842.7	7550.2	7213.9	6899.5	6564.7	6459.6	6409.0	6459.6	6564.7	6899.5
62.5°	7290.2	7263.0	6686.3	6306.9	6051.5	5740.9	5680.4	5600.3	5680.4	5740.9	6051.5
65°	5723.5	5824.8	5443.1	5035.0	4697.1	4572.4	4576.2	4640.5	4576.2	4572.4	4697.1
67.5°	4071.4	4220.2	3794.0	3466.7	3023.1	2898.4	2811.5	2898.4	2811.5	2898.4	3023.1
70°	2518.2	2314.2	1980.1	1610.6	1373.2	1371.0	1387.6	1349.1	1387.6	1371.0	1373.2
72.5°	952.3	910.0	800.4	740.7	665.8	692.3	746.7	761.8	746.7	692.3	665.8
75°	393.0	380.9	338.6	322.7	301.6	296.3	343.1	370.3	343.1	296.3	301.6
77.5°	101.3	96.0	92.2	87.7	86.9	89.2	91.4	90.7	91.4	89.2	86.9
80°	54.4	57.4	52.9	49.1	52.1	52.9	52.9	51.4	52.9	52.9	52.1
82.5°	28.0	30.2	28.0	26.5	26.5	28.0	28.0	28.0	28.0	28.0	26.5
85°	12.8	13.6	14.4	12.8	12.8	13.6	13.6	14.4	13.6	13.6	12.8
87.5°	4.5	5.3	6.0	6.0	6.8	7.6	6.8	6.8	6.8	7.6	6.8
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3401.7	3401.7	3401.7	3401.7	3401.7	3401.7	3401.7	3401.7	3401.7	3401.7	3401.7
2.5°	3402.5	3404.8	3399.5	3398.0	3401.0	3397.2	3394.9	3393.4	3394.2	3397.2	3394.9
5°	3401.0	3400.2	3395.7	3395.7	3390.4	3382.1	3382.1	3376.0	3372.3	3368.5	3360.9
7.5°	3380.6	3375.3	3370.8	3370.8	3363.2	3353.4	3348.1	3339.8	3326.9	3314.1	3318.6
10°	3363.2	3364.0	3367.7	3376.0	3367.0	3363.2	3346.6	3334.5	3314.1	3300.5	3291.4
12.5°	3372.3	3387.4	3397.2	3404.8	3400.2	3387.4	3371.5	3353.4	3338.3	3321.6	3304.2
15°	3378.3	3407.8	3419.1	3427.4	3423.7	3423.7	3404.8	3396.5	3379.8	3364.7	3338.3
17.5°	3423.7	3446.3	3478.1	3475.1	3484.1	3476.6	3469.0	3454.6	3442.6	3427.4	3423.7
20°	3508.3	3549.9	3571.0	3576.3	3564.2	3552.1	3541.6	3529.5	3510.6	3499.2	3490.2
22.5°	3587.7	3659.5	3727.5	3731.3	3699.5	3673.1	3639.1	3610.3	3595.2	3571.8	3549.9
25°	3650.4	3756.2	3837.8	3858.2	3817.4	3767.5	3732.0	3738.8	3729.0	3697.3	3658.0
27.5°	3643.6	3729.0	3837.1	3892.2	3874.9	3837.1	3822.0	3840.8	3863.5	3812.9	3716.1
30°	3650.4	3692.0	3736.6	3814.4	3824.2	3823.5	3831.8	3865.8	3888.5	3839.3	3752.4
32.5°	3719.2	3677.6	3678.4	3718.4	3747.9	3771.3	3753.9	3766.8	3778.9	3824.2	3854.5
35°	3855.2	3707.1	3629.2	3641.3	3679.1	3688.2	3678.4	3665.5	3716.1	3859.0	4047.2
37.5°	4013.2	3806.8	3658.0	3612.6	3629.2	3663.2	3646.6	3669.3	3809.1	4016.9	4262.6
40°	4211.2	3992.0	3778.1	3692.0	3672.3	3712.4	3716.1	3771.3	3946.7	4180.9	4455.3
42.5°	4413.7	4251.2	4068.3	3942.9	3863.5	3888.5	3918.7	4030.5	4198.3	4391.1	4570.2
45°	4562.6	4549.8	4464.4	4311.7	4236.1	4153.0	4281.5	4338.1	4513.5	4617.8	4640.5
47.5°	4689.6	4827.9	4780.3	4736.4	4611.7	4583.8	4683.5	4755.3	4810.5	4810.5	4729.6
50°	4978.3	5082.6	5175.5	5137.0	5048.6	5037.2	5122.6	5184.6	5173.3	5161.9	5071.3
52.5°	5567.8	5653.2	5626.7	5505.8	5341.1	5285.9	5499.8	5571.6	5666.8	5764.3	5944.2
55°	6422.6	6251.8	6367.4	6133.9	5573.8	5518.7	5953.2	6381.0	6706.7	6977.3	7119.4
57.5°	7390.7	7253.9	7079.3	7056.7	6303.2	6021.3	7033.2	7398.3	7421.7	7343.9	7236.5
60°	7213.9	7550.2	7842.7	7758.0	6894.2	6558.6	7529.0	7543.4	7173.1	6792.1	6397.6
62.5°	6306.9	6686.3	7263.0	7290.2	6254.0	5589.7	6409.0	6607.0	6162.6	5631.3	5462.0
65°	5035.0	5443.1	5824.8	5723.5	4690.3	3857.5	4693.4	5082.6	4842.3	4552.0	4373.7
67.5°	3466.7	3794.0	4220.2	4071.4	3283.1	2756.3	3307.3	3738.8	3574.1	3373.8	3175.8
70°	1610.6	1980.1	2314.2	2518.2	2132.8	1949.9	2027.0	2219.7	2164.5	1841.1	1558.4
72.5°	740.7	800.4	910.0	952.3	889.5	737.6	891.1	901.6	879.0	771.6	675.7
75°	322.7	338.6	380.9	393.0	312.9	305.3	322.0	391.5	379.4	326.5	284.2
77.5°	87.7	92.2	96.0	101.3	114.9	108.8	107.3	95.2	86.2	77.1	76.3
80°	49.1	52.9	57.4	54.4	58.2	59.0	52.9	50.6	48.4	46.9	43.8
82.5°	26.5	28.0	30.2	28.0	28.0	28.0	25.7	24.9	25.7	24.9	24.2
85°	12.8	14.4	13.6	12.8	12.8	12.8	12.1	11.3	12.1	13.6	13.6
87.5°	6.0	6.0	5.3	4.5	3.8	4.5	3.8	3.8	4.5	4.5	6.0
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):

	165°	170°	175°	180°
0°	3401.7	3401.7	3401.7	3401.7
2.5°	3393.4	3393.4	3393.4	3397.2
5°	3355.6	3357.2	3355.6	3355.6
7.5°	3311.8	3306.5	3308.0	3306.5
10°	3278.6	3277.8	3281.6	3283.8
12.5°	3292.2	3289.9	3281.6	3280.8
15°	3334.5	3326.9	3324.7	3321.6
17.5°	3408.5	3391.2	3370.8	3359.4
20°	3466.7	3447.8	3418.4	3401.0
22.5°	3527.2	3478.1	3446.3	3435.0
25°	3574.8	3518.1	3470.5	3446.3
27.5°	3623.9	3553.7	3503.0	3472.8
30°	3678.4	3617.1	3584.6	3567.3
32.5°	3872.6	3828.0	3786.4	3765.3
35°	4146.9	4194.6	4139.4	4103.9
37.5°	4478.0	4587.6	4558.1	4519.5
40°	4655.6	4738.0	4706.2	4693.4
42.5°	4675.2	4648.0	4611.7	4572.4
45°	4590.6	4496.1	4413.7	4386.5
47.5°	4598.9	4494.6	4383.5	4372.2
50°	4963.2	4855.9	4698.7	4708.5
52.5°	5966.1	5793.0	5651.7	5573.8
55°	7009.8	6832.2	6628.9	6586.6
57.5°	7049.1	6745.3	6489.8	6525.4
60°	6143.7	5913.9	5796.0	5827.8
62.5°	5309.3	5168.0	5116.6	5103.0
65°	4281.5	4249.0	4158.3	4124.3
67.5°	2945.3	2912.8	2763.9	2667.9
70°	1383.8	1312.8	1239.5	1175.2
72.5°	647.7	648.5	665.8	651.5
75°	282.7	288.7	291.0	273.6
77.5°	77.1	78.6	76.3	75.6
80°	43.1	46.1	45.3	45.3
82.5°	24.2	24.9	25.7	26.5
85°	13.6	12.8	13.6	13.6
87.5°	6.8	6.8	6.8	7.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)