

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: 768371

Luminaire Tested: **TRU25SXX5F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768371
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TRU25SXX5F
Description: ARCHITECTURAL AREA LUMINAIRE - TYPE V
Light Source: 250 WATT HPS CLEAR E-18
Ballast/Driver: -

Summary

Lumens per Lamp: 30000 (1 lamp)
Luminaire Lumens: 18163.5 lumens
Efficiency: 60.5%
Efficacy: 60.5 lumens/watt
Luminous Opening: Rectangular (W 1.08' x L: 1.08' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

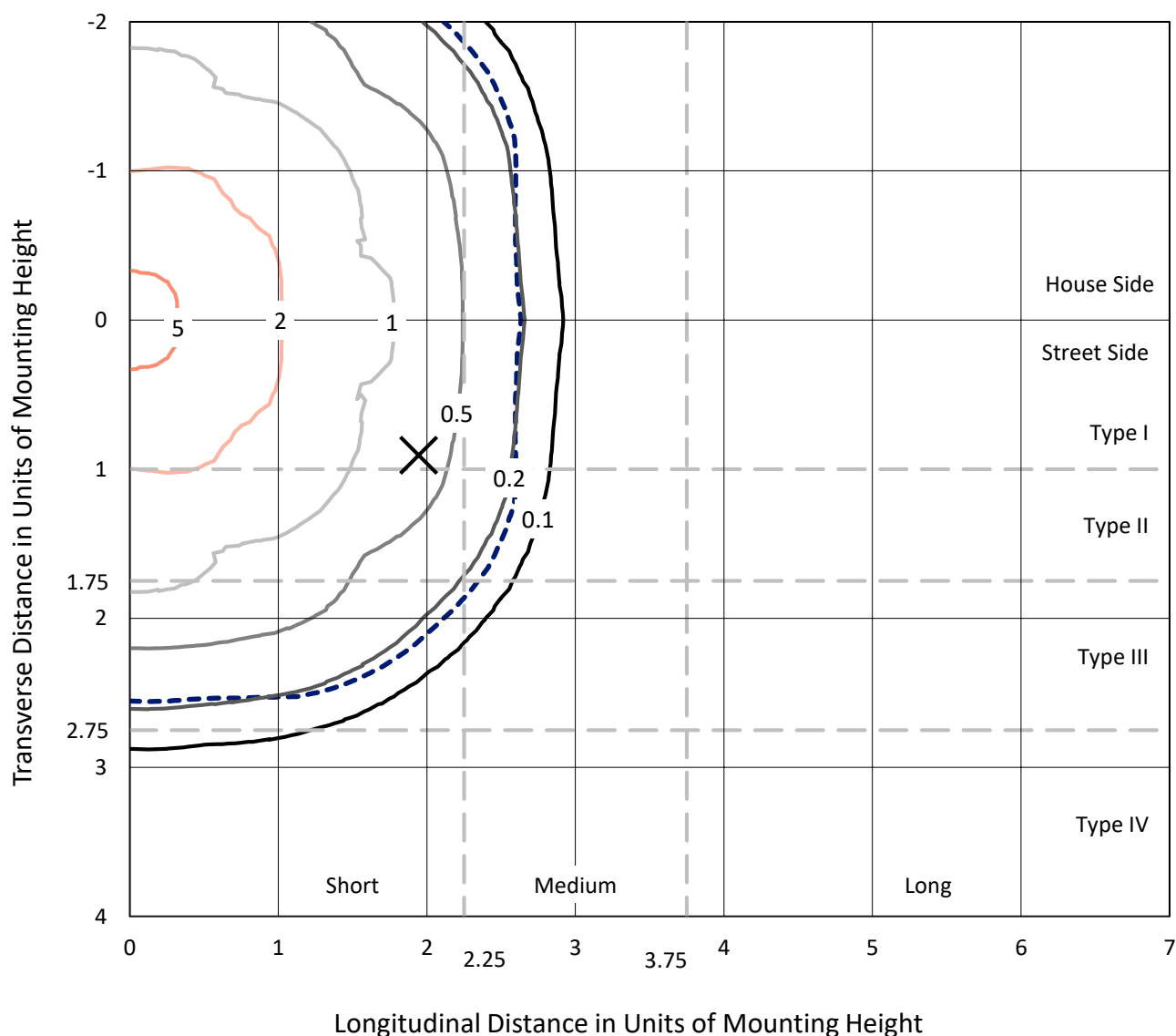
Input Watts (W): 300
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

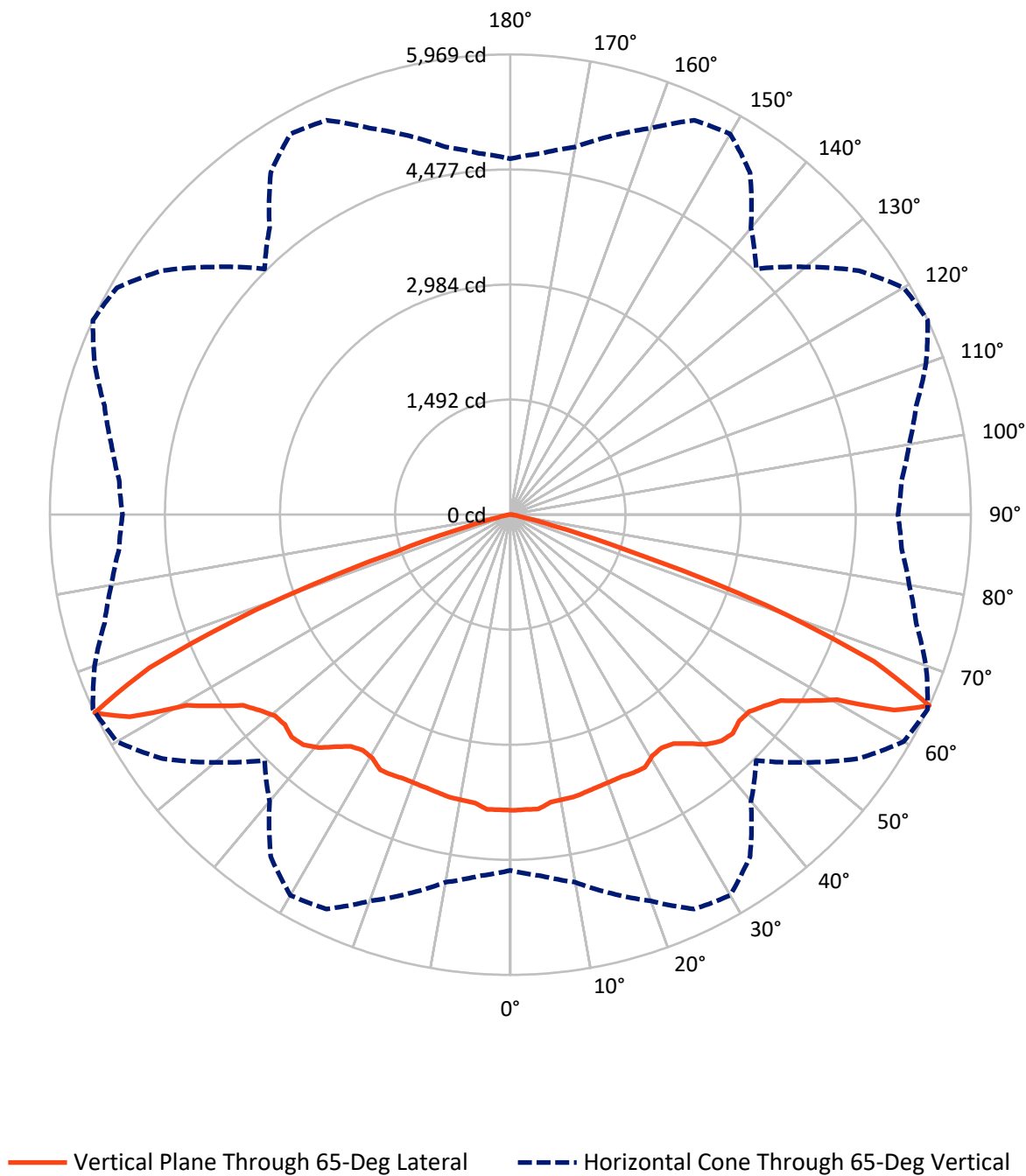
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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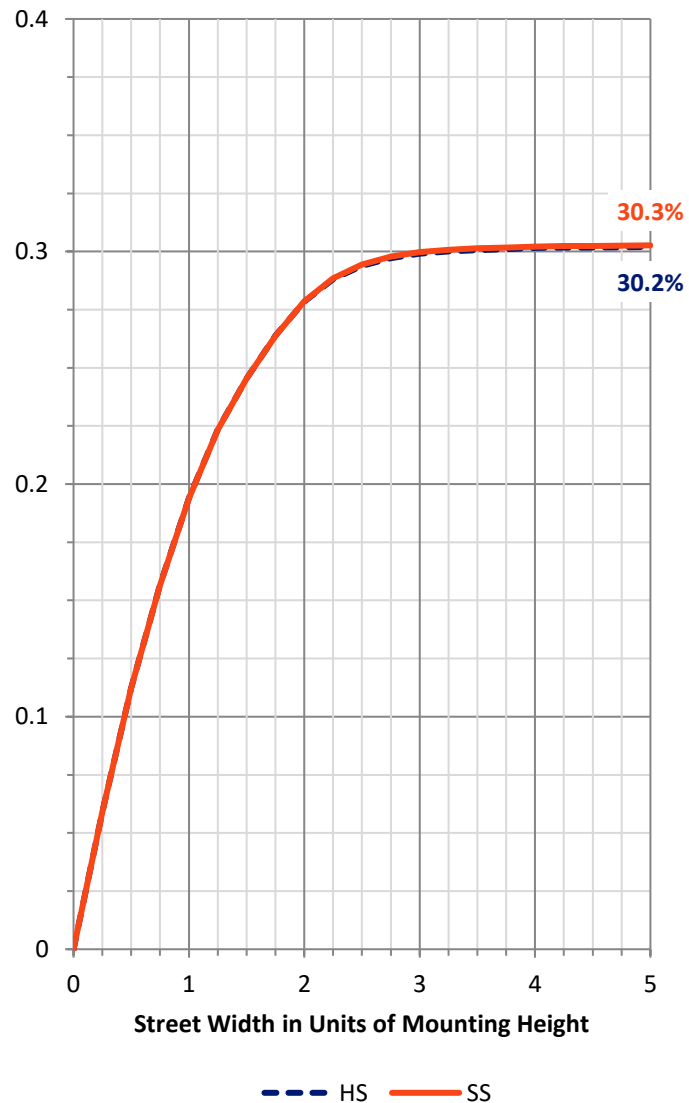
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9081.8	0.0	9081.8
	% Lamp	30.3	0.0	30.3
Street Side	Lumens	9081.8	0.0	9081.8
	% Lamp	30.3	0.0	30.3
Total	Lumens	18163.5	0.0	18163.5
	% Lamp	60.5	0.0	60.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	361.4	2.0	1.2
10°-20°	1050.6	5.8	3.5
20°-30°	1705.8	9.4	5.7
30°-40°	2335.2	12.9	7.8
40°-50°	2976.6	16.4	9.9
50°-60°	3920.3	21.6	13.1
60°-70°	4796.5	26.4	16.0
70°-80°	979.2	5.4	3.3
80°-90°	38.0	0.2	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°	18163.5	100.0	60.5
0°-180°	18163.5	100.0	60.5

Coefficient of Utilization



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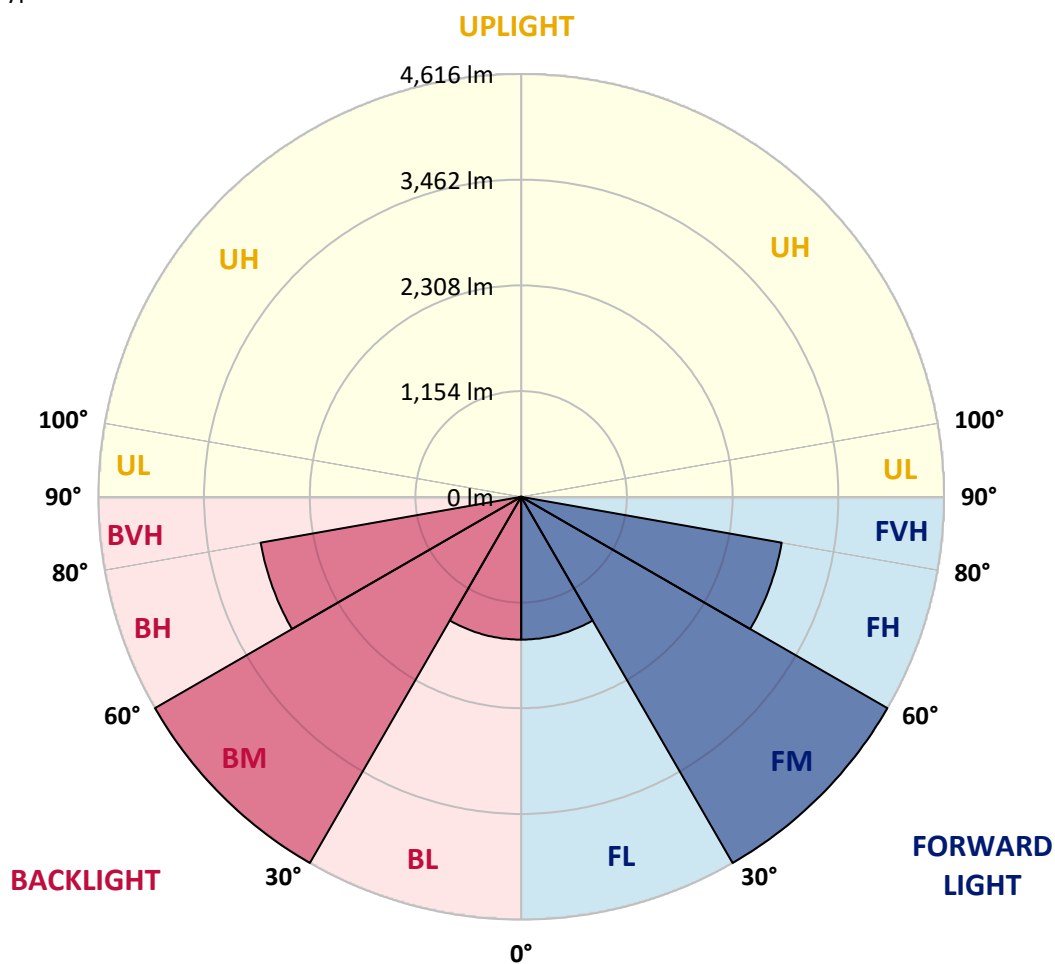
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1558.9	5.2			
FM	(30°-60°)	4616.0	15.4			
FH	(60°-80°)	2887.8	9.6			G2/5000
FVH	(80°-90°)	19.0	0.1			G1/100
BL	(0°-30°)	1558.9	5.2	B3/2500		
BM	(30°-60°)	4616.0	15.4	B3/5000		
BH	(60°-80°)	2887.8	9.6	B4/5000		G2/5000
BVH	(80°-90°)	19.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		11836.5	39.5			

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°	3834.4	3834.4	3834.4	3834.4	3834.4	3834.4	3834.4	3834.4	3834.4	3834.4	3834.4
2.5°	3844.9	3824.7	3820.2	3815.7	3819.5	3815.0	3829.9	3828.4	3826.9	3827.7	3831.4
5°	3840.4	3818.7	3816.5	3816.5	3820.2	3810.5	3827.7	3826.2	3822.4	3829.9	3824.7
7.5°	3817.2	3790.3	3775.4	3758.2	3752.2	3744.0	3760.4	3760.4	3758.2	3758.9	3761.9
10°	3718.6	3702.9	3711.1	3725.3	3736.5	3727.5	3745.5	3747.0	3747.0	3752.9	3752.9
12.5°	3679.0	3662.5	3670.7	3687.9	3717.1	3729.0	3743.2	3749.2	3747.7	3751.4	3755.2
15°	3654.3	3647.6	3654.3	3669.2	3689.4	3714.1	3741.7	3741.7	3744.0	3744.0	3751.4
17.5°	3665.5	3646.1	3639.4	3652.1	3674.5	3699.1	3740.2	3744.0	3740.2	3747.7	3752.9
20°	3661.8	3647.6	3640.8	3643.1	3666.3	3687.9	3735.0	3746.2	3747.7	3752.9	3756.7
22.5°	3654.3	3631.9	3629.6	3633.4	3646.1	3674.5	3734.3	3755.2	3758.9	3764.2	3766.4
25°	3624.4	3605.0	3607.2	3621.4	3643.1	3671.5	3739.5	3770.1	3775.4	3777.6	3777.6
27.5°	3587.0	3579.6	3588.5	3605.7	3637.1	3676.7	3751.4	3785.1	3781.3	3777.6	3777.6
30°	3572.8	3566.1	3581.1	3596.0	3622.2	3605.7	3672.2	3714.1	3714.1	3710.3	3714.1
32.5°	3613.2	3605.0	3616.9	3587.8	3588.5	3602.7	3650.6	3687.9	3691.7	3693.2	3687.9
35°	3719.3	3717.8	3699.1	3705.1	3705.9	3680.5	3662.5	3665.5	3655.8	3658.0	3664.0
37.5°	3811.2	3823.2	3868.8	3898.7	3893.4	3809.0	3749.2	3708.1	3675.2	3679.0	3706.6
40°	3826.2	3868.8	3971.2	4041.4	4065.3	4003.3	3889.7	3752.9	3646.8	3640.1	3693.2
42.5°	3725.3	3761.9	3917.3	4079.5	4138.5	4087.7	3971.9	3800.0	3652.1	3618.4	3699.9
45°	3508.6	3577.3	3760.4	3967.4	4106.4	4107.2	4020.5	3853.8	3678.2	3622.9	3717.8
47.5°	3374.1	3415.2	3578.1	3797.0	4007.0	4069.0	4027.9	3913.6	3787.3	3749.2	3823.9
50°	3314.3	3340.4	3426.4	3606.5	3838.9	4027.2	4187.9	4169.9	4107.9	4088.5	4110.9
52.5°	3422.6	3383.0	3370.3	3492.9	3736.5	4013.0	4272.3	4496.5	4468.9	4500.2	4562.3
55°	3876.2	3769.4	3639.4	3580.3	3670.7	3990.6	4510.0	4950.9	5163.8	5170.6	5262.5
57.5°	4793.9	4727.4	4539.8	4160.2	4070.5	4190.1	4767.0	5333.5	5707.1	5882.7	5787.8
60°	5638.4	5660.8	5482.9	5247.5	4963.6	4773.0	4862.7	5187.8	5559.9	5787.8	5708.6
62.5°	5578.6	5587.6	5692.2	5778.1	5754.2	5660.8	5369.4	5190.0	4983.0	5049.5	5181.8
65°	4614.6	4704.3	4841.0	5086.9	5333.5	5643.6	5699.7	5415.7	4854.5	4507.0	4997.2
67.5°	3579.6	3622.2	3699.1	3831.4	4160.2	4631.8	4959.8	5133.2	4863.4	4566.0	4882.9
70°	2156.0	2215.0	2218.7	2469.8	2699.2	3084.1	3297.1	3483.9	3583.3	3554.9	3670.7
72.5°	976.0	1001.4	1017.8	1144.1	1363.1	1451.3	1692.6	1805.5	1909.4	2026.7	2016.2
75°	430.4	460.3	446.9	506.7	526.8	537.3	583.6	700.2	719.6	684.5	745.1
77.5°	171.1	177.1	160.7	159.2	160.7	153.2	159.9	175.6	165.2	171.1	191.3
80°	102.4	100.1	97.9	94.2	96.4	93.4	97.1	102.4	100.1	96.4	105.4
82.5°	46.3	50.8	47.1	47.1	47.8	40.4	45.6	45.6	41.8	44.1	53.1
85°	26.2	26.2	26.2	26.2	25.4	25.4	26.2	24.7	26.9	26.2	26.2
87.5°	18.7	18.7	18.7	17.9	17.9	17.2	16.4	16.4	16.4	17.2	17.9
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°	3834.4	3834.4	3834.4	3834.4	3834.4	3834.4	3834.4	3834.4	3834.4	3834.4	3834.4
2.5°	3829.9	3832.2	3828.4	3835.1	3835.1	3838.9	3837.4	3832.2	3837.4	3838.9	3835.1
5°	3826.2	3833.6	3833.6	3835.1	3837.4	3838.9	3841.1	3841.1	3841.1	3838.9	3837.4
7.5°	3760.4	3758.9	3765.6	3775.4	3782.8	3789.6	3794.0	3794.8	3794.0	3789.6	3782.8
10°	3751.4	3749.2	3755.2	3760.4	3742.5	3723.0	3708.1	3699.1	3708.1	3723.0	3742.5
12.5°	3750.7	3755.9	3749.2	3732.8	3698.4	3680.5	3672.2	3661.8	3672.2	3680.5	3698.4
15°	3744.0	3745.5	3725.3	3698.4	3676.7	3665.5	3658.0	3651.3	3658.0	3665.5	3676.7
17.5°	3749.2	3738.7	3706.6	3684.2	3665.5	3652.1	3658.0	3650.6	3658.0	3652.1	3665.5
20°	3753.7	3734.3	3696.1	3678.2	3659.5	3652.1	3648.3	3639.4	3648.3	3652.1	3659.5
22.5°	3758.9	3729.0	3691.7	3673.0	3669.2	3649.8	3650.6	3639.4	3650.6	3649.8	3669.2
25°	3770.1	3736.5	3708.1	3684.9	3663.3	3654.3	3644.6	3628.1	3644.6	3654.3	3663.3
27.5°	3779.1	3746.2	3714.1	3684.2	3655.8	3637.1	3624.4	3613.2	3624.4	3637.1	3655.8
30°	3702.9	3665.5	3628.1	3645.3	3637.9	3629.6	3628.1	3619.2	3628.1	3629.6	3637.9
32.5°	3669.2	3629.6	3603.5	3609.5	3610.2	3634.1	3654.3	3643.1	3654.3	3634.1	3610.2
35°	3651.3	3637.1	3646.1	3689.4	3687.9	3689.4	3673.0	3690.2	3673.0	3689.4	3687.9
37.5°	3720.8	3744.0	3766.4	3811.2	3831.4	3814.2	3772.4	3717.8	3772.4	3814.2	3831.4
40°	3751.4	3821.7	3915.9	3992.1	3971.2	3912.1	3841.1	3822.4	3841.1	3912.1	3971.2
42.5°	3792.5	3908.4	4013.0	4059.3	4039.2	3951.7	3838.9	3804.5	3838.9	3951.7	4039.2
45°	3842.6	3957.0	4044.4	4048.1	3939.8	3815.7	3699.1	3628.1	3699.1	3815.7	3939.8
47.5°	3921.1	3998.1	3994.3	3917.3	3769.4	3583.3	3469.0	3456.3	3469.0	3583.3	3769.4
50°	4190.1	4167.7	4014.5	3794.0	3581.1	3438.3	3360.6	3310.5	3360.6	3438.3	3581.1
52.5°	4495.0	4420.3	4121.4	3835.1	3573.6	3401.7	3326.2	3314.3	3326.2	3401.7	3573.6
55°	5013.6	4655.7	4257.4	3871.0	3655.8	3587.0	3598.2	3605.7	3598.2	3587.0	3655.8
57.5°	5451.6	5057.0	4552.6	4144.5	4010.8	4078.0	4213.3	4353.0	4213.3	4078.0	4010.8
60°	5465.0	5167.6	4870.2	4752.8	4918.0	5130.2	5175.8	5104.1	5175.8	5130.2	4918.0
62.5°	5253.5	5438.1	5583.8	5728.1	5818.5	5799.0	5746.7	5720.6	5746.7	5799.0	5818.5
65°	5515.1	5886.5	5968.7	5734.8	5445.6	5250.5	5089.9	5025.6	5089.9	5250.5	5445.6
67.5°	5176.5	5391.0	5081.6	4653.4	4262.6	4166.2	3977.1	3912.1	3977.1	4166.2	4262.6
70°	3757.4	3678.2	3521.3	2989.2	2661.9	2406.3	2339.0	2492.2	2339.0	2406.3	2661.9
72.5°	1981.8	1815.9	1554.4	1395.2	1091.1	1015.6	977.5	936.4	977.5	1015.6	1091.1
75°	688.3	663.6	557.5	471.5	482.8	468.6	460.3	445.4	460.3	468.6	482.8
77.5°	183.8	193.6	171.9	173.4	176.4	189.8	200.3	202.5	200.3	189.8	176.4
80°	102.4	105.4	100.9	99.4	98.6	103.1	109.9	103.9	109.9	103.1	98.6
82.5°	43.3	51.6	44.8	46.3	40.4	41.8	41.1	44.1	41.1	41.8	40.4
85°	26.9	26.9	27.7	26.9	26.2	26.9	26.9	26.2	26.9	26.9	26.2
87.5°	17.9	17.9	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
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°	3834.4	3834.4	3834.4	3834.4	3834.4	3834.4	3834.4	3834.4	3834.4	3834.4	3834.4
2.5°	3835.1	3828.4	3832.2	3829.9	3831.4	3827.7	3826.9	3828.4	3829.9	3815.0	3819.5
5°	3835.1	3833.6	3833.6	3826.2	3824.7	3829.9	3822.4	3826.2	3827.7	3810.5	3820.2
7.5°	3775.4	3765.6	3758.9	3760.4	3761.9	3758.9	3758.2	3760.4	3760.4	3744.0	3752.2
10°	3760.4	3755.2	3749.2	3751.4	3752.9	3752.9	3747.0	3747.0	3745.5	3727.5	3736.5
12.5°	3732.8	3749.2	3755.9	3750.7	3755.2	3751.4	3747.7	3749.2	3743.2	3729.0	3717.1
15°	3698.4	3725.3	3745.5	3744.0	3751.4	3744.0	3744.0	3741.7	3741.7	3714.1	3689.4
17.5°	3684.2	3706.6	3738.7	3749.2	3752.9	3747.7	3740.2	3744.0	3740.2	3699.1	3674.5
20°	3678.2	3696.1	3734.3	3753.7	3756.7	3752.9	3747.7	3746.2	3735.0	3687.9	3666.3
22.5°	3673.0	3691.7	3729.0	3758.9	3766.4	3764.2	3758.9	3755.2	3734.3	3674.5	3646.1
25°	3684.9	3708.1	3736.5	3770.1	3777.6	3777.6	3775.4	3770.1	3739.5	3671.5	3643.1
27.5°	3684.2	3714.1	3746.2	3779.1	3777.6	3777.6	3781.3	3785.1	3751.4	3676.7	3637.1
30°	3645.3	3628.1	3665.5	3702.9	3714.1	3710.3	3714.1	3714.1	3672.2	3605.7	3622.2
32.5°	3609.5	3603.5	3629.6	3669.2	3687.9	3693.2	3691.7	3687.9	3650.6	3602.7	3588.5
35°	3689.4	3646.1	3637.1	3651.3	3664.0	3658.0	3655.8	3665.5	3662.5	3680.5	3705.9
37.5°	3811.2	3766.4	3744.0	3720.8	3706.6	3679.0	3675.2	3708.1	3749.2	3809.0	3893.4
40°	3992.1	3915.9	3821.7	3751.4	3693.2	3640.1	3646.8	3752.9	3889.7	4003.3	4065.3
42.5°	4059.3	4013.0	3908.4	3792.5	3699.9	3618.4	3652.1	3800.0	3971.9	4087.7	4138.5
45°	4048.1	4044.4	3957.0	3842.6	3717.8	3622.9	3678.2	3853.8	4020.5	4107.2	4106.4
47.5°	3917.3	3994.3	3998.1	3921.1	3823.9	3749.2	3787.3	3913.6	4027.9	4069.0	4007.0
50°	3794.0	4014.5	4167.7	4190.1	4110.9	4088.5	4107.9	4169.9	4187.9	4027.2	3838.9
52.5°	3835.1	4121.4	4420.3	4495.0	4562.3	4500.2	4468.9	4496.5	4272.3	4013.0	3736.5
55°	3871.0	4257.4	4655.7	5013.6	5262.5	5170.6	5163.8	4950.9	4510.0	3990.6	3670.7
57.5°	4144.5	4552.6	5057.0	5451.6	5787.8	5882.7	5707.1	5333.5	4767.0	4190.1	4070.5
60°	4752.8	4870.2	5167.6	5465.0	5708.6	5787.8	5559.9	5187.8	4862.7	4773.0	4963.6
62.5°	5728.1	5583.8	5438.1	5253.5	5181.8	5049.5	4983.0	5190.0	5369.4	5660.8	5754.2
65°	5734.8	5968.7	5886.5	5515.1	4997.2	4507.0	4854.5	5415.7	5699.7	5643.6	5333.5
67.5°	4653.4	5081.6	5391.0	5176.5	4882.9	4566.0	4863.4	5133.2	4959.8	4631.8	4160.2
70°	2989.2	3521.3	3678.2	3757.4	3670.7	3554.9	3583.3	3483.9	3297.1	3084.1	2699.2
72.5°	1395.2	1554.4	1815.9	1981.8	2016.2	2026.7	1909.4	1805.5	1692.6	1451.3	1363.1
75°	471.5	557.5	663.6	688.3	745.1	684.5	719.6	700.2	583.6	537.3	526.8
77.5°	173.4	171.9	193.6	183.8	191.3	171.1	165.2	175.6	159.9	153.2	160.7
80°	99.4	100.9	105.4	102.4	105.4	96.4	100.1	102.4	97.1	93.4	96.4
82.5°	46.3	44.8	51.6	43.3	53.1	44.1	41.8	45.6	45.6	40.4	47.8
85°	26.9	27.7	26.9	26.9	26.2	26.2	26.9	24.7	26.2	25.4	25.4
87.5°	18.7	18.7	17.9	17.9	17.9	17.2	16.4	16.4	16.4	17.2	17.9
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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CATALOG NUMBER: TRU25SXX5F

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3834.4	3834.4	3834.4	3834.4
2.5°	3815.7	3820.2	3824.7	3844.9
5°	3816.5	3816.5	3818.7	3840.4
7.5°	3758.2	3775.4	3790.3	3817.2
10°	3725.3	3711.1	3702.9	3718.6
12.5°	3687.9	3670.7	3662.5	3679.0
15°	3669.2	3654.3	3647.6	3654.3
17.5°	3652.1	3639.4	3646.1	3665.5
20°	3643.1	3640.8	3647.6	3661.8
22.5°	3633.4	3629.6	3631.9	3654.3
25°	3621.4	3607.2	3605.0	3624.4
27.5°	3605.7	3588.5	3579.6	3587.0
30°	3596.0	3581.1	3566.1	3572.8
32.5°	3587.8	3616.9	3605.0	3613.2
35°	3705.1	3699.1	3717.8	3719.3
37.5°	3898.7	3868.8	3823.2	3811.2
40°	4041.4	3971.2	3868.8	3826.2
42.5°	4079.5	3917.3	3761.9	3725.3
45°	3967.4	3760.4	3577.3	3508.6
47.5°	3797.0	3578.1	3415.2	3374.1
50°	3606.5	3426.4	3340.4	3314.3
52.5°	3492.9	3370.3	3383.0	3422.6
55°	3580.3	3639.4	3769.4	3876.2
57.5°	4160.2	4539.8	4727.4	4793.9
60°	5247.5	5482.9	5660.8	5638.4
62.5°	5778.1	5692.2	5587.6	5578.6
65°	5086.9	4841.0	4704.3	4614.6
67.5°	3831.4	3699.1	3622.2	3579.6
70°	2469.8	2218.7	2215.0	2156.0
72.5°	1144.1	1017.8	1001.4	976.0
75°	506.7	446.9	460.3	430.4
77.5°	159.2	160.7	177.1	171.1
80°	94.2	97.9	100.1	102.4
82.5°	47.1	47.1	50.8	46.3
85°	26.2	26.2	26.2	26.2
87.5°	17.9	18.7	18.7	18.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)