

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_350MP

Luminaire Tested: **TRU35PXX5F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768359_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TRU35PXX5F
Description: ARCHITECTURAL AREA LUMINAIRE - TYPE V
Light Source: 350 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 21579.2 lumens
Efficiency: 65.4%
Efficacy: 54.4 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

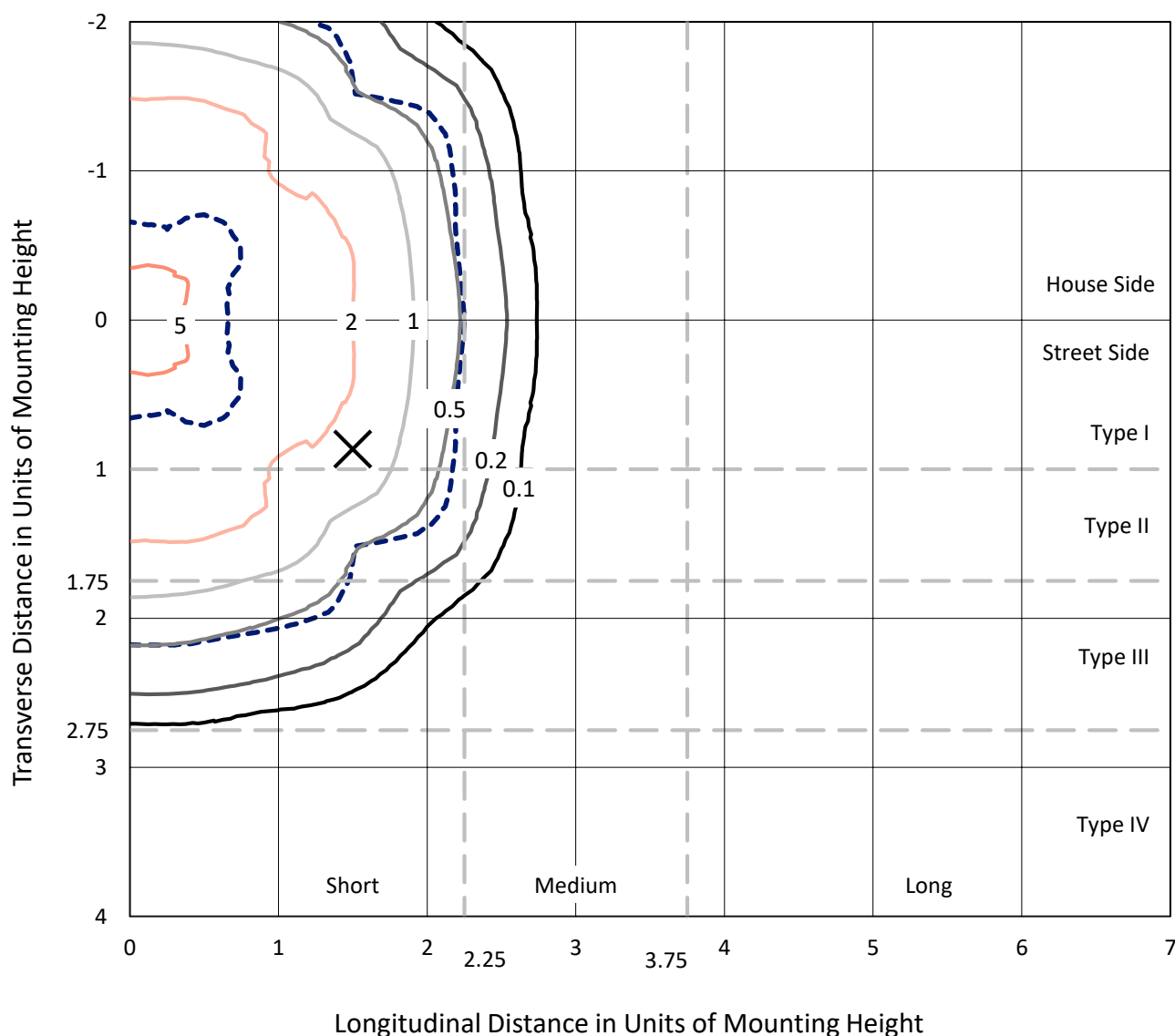
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

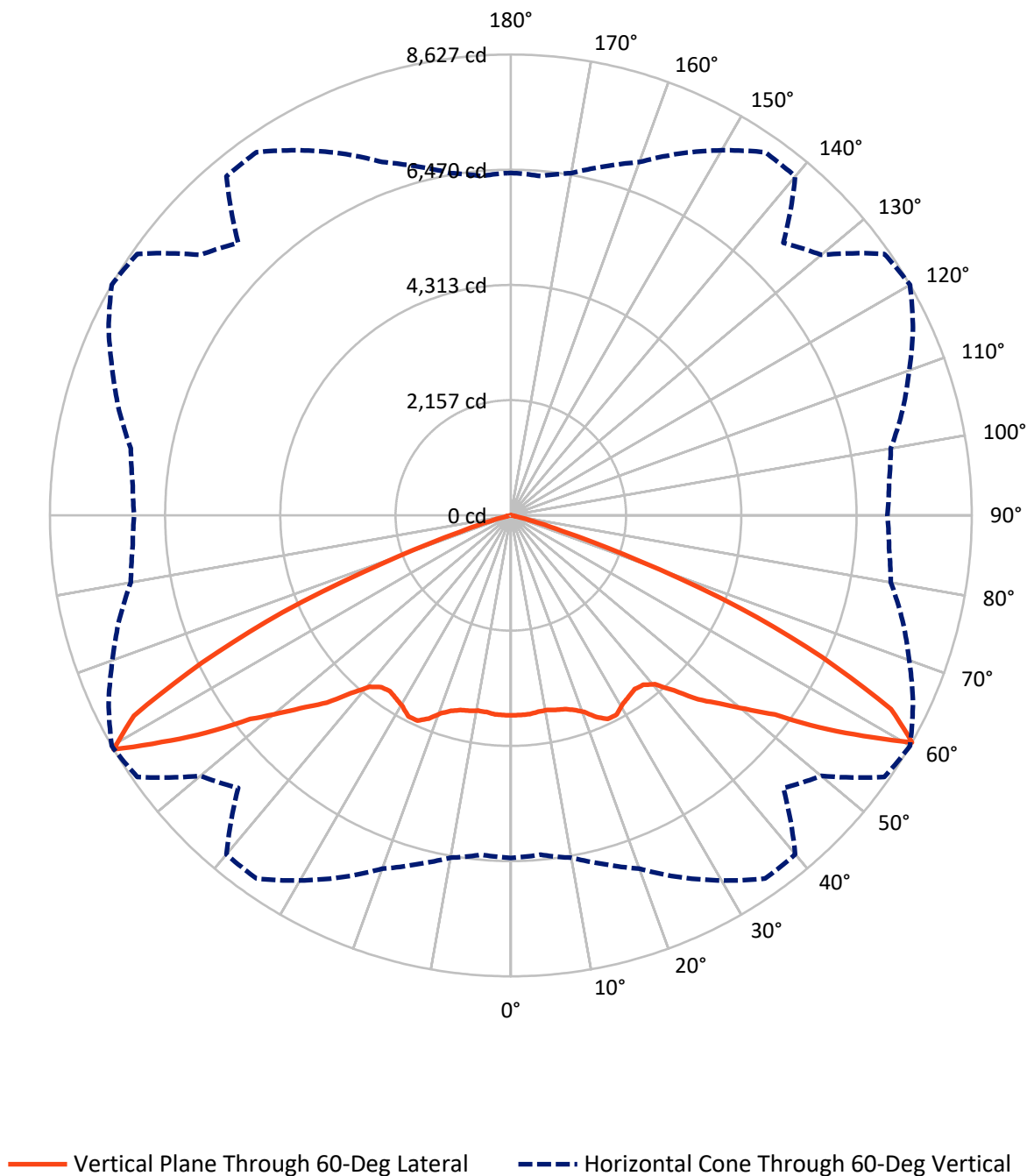
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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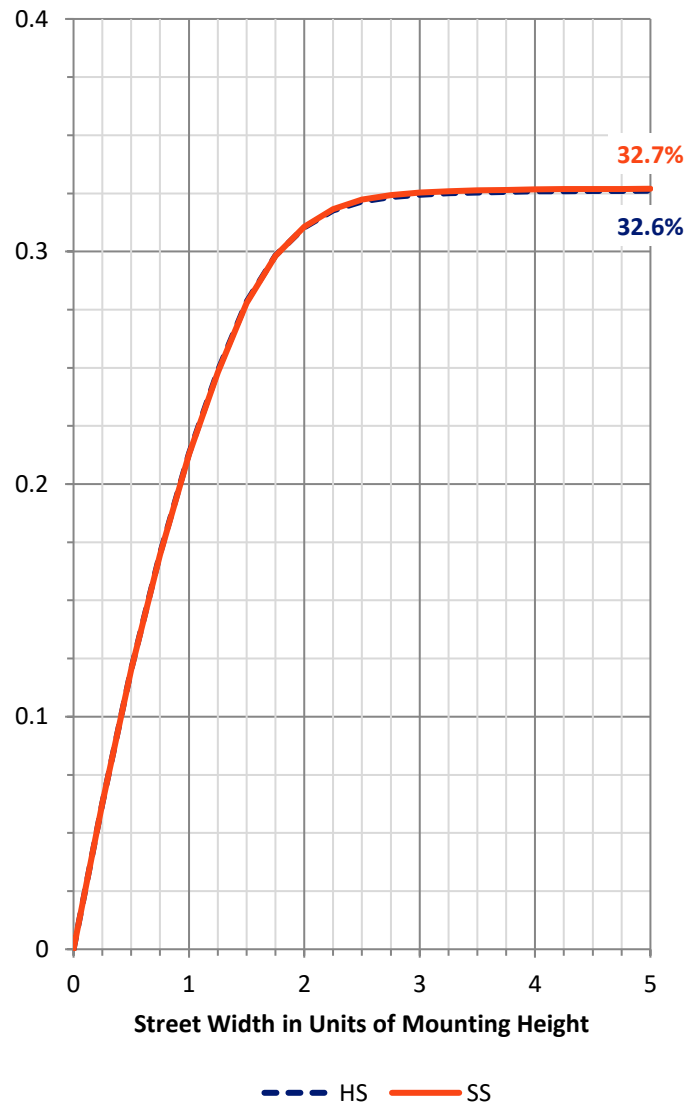
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10789.6	0.0	10789.6
	% Lamp	32.7	0.0	32.7
Street Side	Lumens	10789.6	0.0	10789.6
	% Lamp	32.7	0.0	32.7
Total	Lumens	21579.2	0.0	21579.2
	% Lamp	65.4	0.0	65.4

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	353.0	1.6	1.1
10°-20°	1059.0	4.9	3.2
20°-30°	1854.0	8.6	5.6
30°-40°	2711.3	12.6	8.2
40°-50°	3848.7	17.8	11.7
50°-60°	6170.2	28.6	18.7
60°-70°	4959.3	23.0	15.0
70°-80°	602.7	2.8	1.8
80°-90°	21.2	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°	21579.2	100.0	65.4
0°-180°	21579.2	100.0	65.4

Coefficient of Utilization

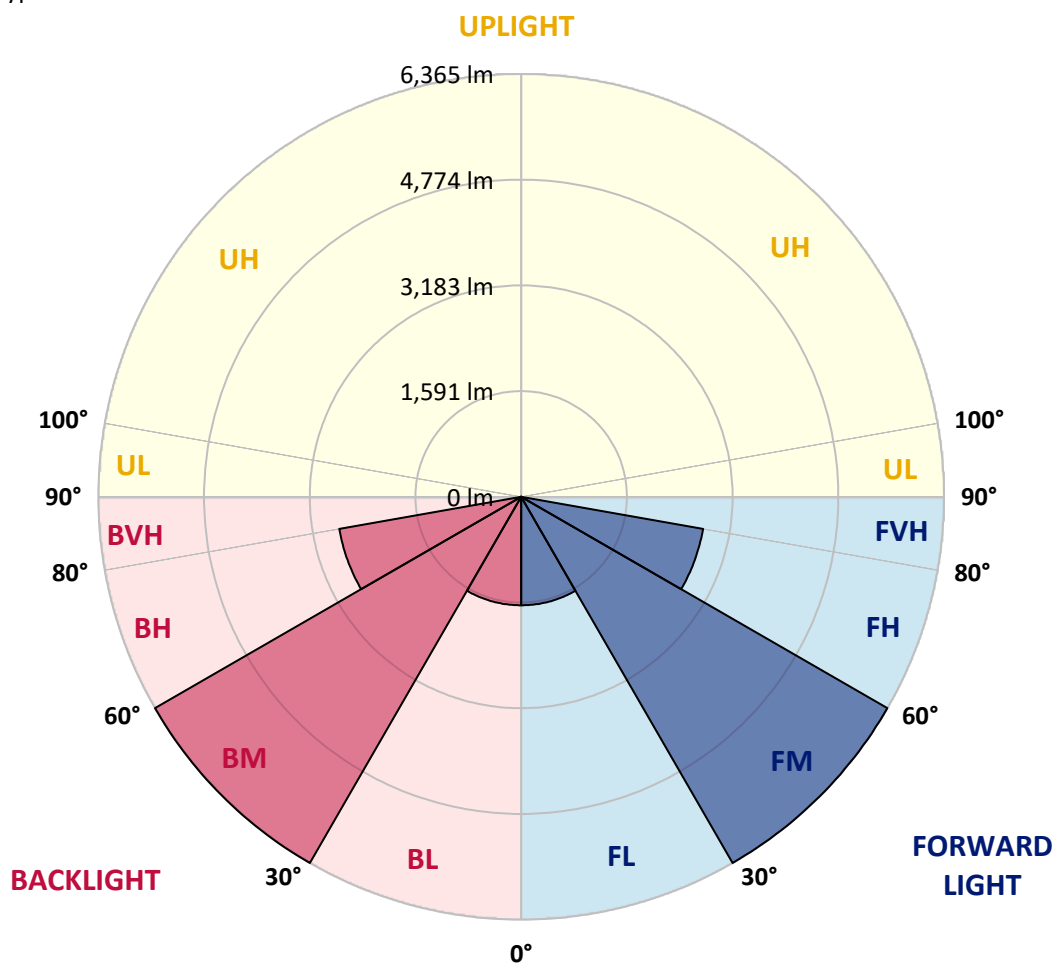


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1633.0	4.9			
FM	(30°-60°)	6365.1	19.3			
FH	(60°-80°)	2781.0	8.4			G2/5000
FVH	(80°-90°)	10.6	0.0			G1/100
BL	(0°-30°)	1633.0	4.9	B3/2500		
BM	(30°-60°)	6365.1	19.3	B4/8500		
BH	(60°-80°)	2781.0	8.4	B4/5000		G2/5000
BVH	(80°-90°)	10.6	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		11420.8	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°	3741.9	3741.9	3741.9	3741.9	3741.9	3741.9	3741.9	3741.9	3741.9	3741.9	3741.9
2.5°	3736.9	3732.8	3732.8	3732.8	3734.4	3736.9	3733.6	3732.8	3734.4	3736.9	3741.1
5°	3691.2	3691.2	3692.9	3691.2	3697.0	3705.3	3709.5	3713.7	3720.3	3720.3	3729.4
7.5°	3637.2	3638.8	3637.2	3643.0	3650.5	3645.5	3659.6	3673.7	3682.9	3688.7	3699.5
10°	3612.2	3609.7	3605.6	3606.4	3620.5	3630.5	3645.5	3667.9	3681.2	3699.5	3703.7
12.5°	3608.9	3609.7	3618.9	3621.4	3634.7	3653.8	3672.1	3688.7	3708.7	3726.1	3740.3
15°	3653.8	3657.1	3659.6	3667.9	3672.1	3701.2	3717.8	3736.1	3745.2	3766.0	3766.0
17.5°	3695.4	3707.8	3730.3	3749.4	3766.0	3770.2	3786.8	3800.1	3815.9	3824.2	3832.5
20°	3741.1	3760.2	3792.6	3813.4	3839.2	3849.2	3861.6	3882.4	3895.7	3907.4	3920.7
22.5°	3778.5	3791.0	3825.9	3879.9	3904.9	3929.0	3954.7	3971.4	4003.0	4040.4	4069.5
25°	3791.0	3817.6	3869.9	3932.3	4023.7	4067.0	4101.9	4112.7	4105.2	4144.3	4199.2
27.5°	3820.1	3853.3	3909.0	3986.3	4087.8	4194.2	4249.9	4224.9	4204.1	4220.8	4262.3
30°	3924.0	3943.1	3978.9	4046.2	4127.7	4223.3	4277.3	4252.4	4215.0	4205.8	4206.6
32.5°	4141.8	4165.1	4210.8	4259.9	4239.9	4206.6	4156.8	4143.5	4129.3	4148.4	4122.7
35°	4514.2	4553.3	4614.0	4561.6	4451.9	4244.9	4087.8	4032.1	4046.2	4057.0	4047.0
37.5°	4971.5	5013.9	5046.3	4925.8	4688.8	4418.6	4190.0	4036.2	4011.3	4029.6	3992.2
40°	5162.7	5176.8	5211.7	5121.1	4900.8	4599.0	4341.3	4148.4	4087.8	4083.6	4039.5
42.5°	5029.7	5072.9	5112.8	5142.7	5027.2	4830.2	4618.2	4433.6	4310.6	4277.3	4249.9
45°	4825.2	4855.1	4945.7	5049.6	5104.5	5079.6	4964.8	4772.0	4709.6	4568.3	4659.7
47.5°	4809.4	4821.8	4944.1	5058.8	5202.6	5291.6	5291.6	5230.9	5151.9	5042.2	5072.9
50°	5179.3	5168.5	5341.4	5459.5	5578.4	5678.1	5690.6	5703.1	5634.9	5541.0	5553.4
52.5°	6131.2	6216.9	6372.3	6562.7	6538.6	6340.7	6233.5	6128.7	6049.8	5814.5	5875.2
55°	7245.2	7291.8	7515.4	7710.8	7831.3	7675.0	7377.4	7019.1	6548.6	6070.5	6131.2
57.5°	7177.9	7138.8	7419.8	7754.0	7960.2	8078.3	8163.9	8138.1	7736.6	6623.4	6933.5
60°	6410.6	6375.6	6505.3	6758.1	7037.4	7471.4	7890.4	8297.7	8281.9	7214.5	7583.6
62.5°	5613.3	5628.3	5684.8	5840.3	6008.2	6194.4	6778.8	7267.7	7049.9	6148.7	6879.4
65°	4536.7	4574.1	4673.9	4709.6	4811.0	5007.2	5326.5	5590.8	5162.7	4243.2	5159.4
67.5°	2934.7	3040.3	3204.0	3239.8	3493.3	3711.2	3931.5	4112.7	3638.0	3031.9	3611.4
70°	1292.8	1363.4	1444.1	1522.2	1714.2	2025.2	2381.0	2441.7	2229.7	2144.9	2346.1
72.5°	716.6	732.4	713.3	712.5	743.2	848.8	966.9	991.8	980.2	811.4	978.5
75°	300.9	320.1	317.6	310.9	312.6	359.1	417.3	430.6	354.2	335.9	344.2
77.5°	83.1	84.0	86.5	84.8	84.0	84.8	94.8	104.8	118.1	119.7	126.4
80°	49.9	49.9	50.7	47.4	48.2	51.5	53.2	55.7	58.2	64.8	64.0
82.5°	29.1	28.3	27.4	26.6	26.6	27.4	28.3	27.4	28.3	30.8	30.8
85°	15.0	15.0	14.1	15.0	15.0	15.0	13.3	12.5	13.3	14.1	14.1
87.5°	8.3	7.5	7.5	7.5	6.7	5.0	5.0	4.2	4.2	5.0	4.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3741.9	3741.9	3741.9	3741.9	3741.9	3741.9	3741.9	3741.9	3741.9	3741.9	3741.9
2.5°	3737.8	3739.4	3745.2	3742.7	3742.7	3745.2	3742.7	3749.4	3742.7	3745.2	3742.7
5°	3735.3	3735.3	3740.3	3741.1	3746.9	3751.1	3753.6	3753.6	3753.6	3751.1	3746.9
7.5°	3707.8	3707.8	3712.8	3718.6	3721.1	3716.1	3716.1	3712.0	3716.1	3716.1	3721.1
10°	3713.7	3704.5	3700.3	3699.5	3692.9	3684.6	3680.4	3672.1	3680.4	3684.6	3692.9
12.5°	3745.2	3736.9	3726.1	3709.5	3689.5	3674.6	3655.5	3653.8	3655.5	3674.6	3689.5
15°	3770.2	3761.0	3748.6	3716.1	3695.4	3676.2	3663.8	3662.9	3663.8	3676.2	3695.4
17.5°	3822.6	3825.9	3791.0	3766.0	3736.9	3703.7	3676.2	3670.4	3676.2	3703.7	3736.9
20°	3934.0	3928.1	3904.9	3859.1	3791.0	3741.1	3697.9	3691.2	3697.9	3741.1	3791.0
22.5°	4104.4	4100.2	4025.4	3946.4	3863.3	3791.0	3734.4	3724.5	3734.4	3791.0	3863.3
25°	4244.1	4221.6	4131.8	4015.4	3918.2	3842.5	3792.6	3772.7	3792.6	3842.5	3918.2
27.5°	4281.5	4220.8	4101.9	4008.0	3957.2	3903.2	3865.0	3845.0	3865.0	3903.2	3957.2
30°	4195.8	4110.2	4061.2	4015.4	4008.8	3990.5	3973.9	3986.3	3973.9	3990.5	4008.8
32.5°	4090.3	4046.2	4045.4	4091.1	4134.3	4173.4	4182.5	4170.9	4182.5	4173.4	4134.3
35°	4005.5	3992.2	4077.8	4240.7	4361.3	4455.2	4493.5	4497.6	4493.5	4455.2	4361.3
37.5°	3973.9	4023.7	4187.5	4414.5	4632.3	4761.2	4817.7	4850.9	4817.7	4761.2	4632.3
40°	4061.2	4155.9	4391.2	4632.3	4811.9	4955.7	5096.2	5164.4	5096.2	4955.7	4811.9
42.5°	4337.2	4475.2	4676.4	4855.1	4927.4	5038.0	5191.8	5283.2	5191.8	5038.0	4927.4
45°	4742.9	4910.8	5004.7	5018.9	4989.8	4992.3	5067.1	5150.2	5067.1	4992.3	4989.8
47.5°	5210.1	5258.3	5310.7	5158.5	5060.4	4970.7	4995.6	5013.1	4995.6	4970.7	5060.4
50°	5650.7	5693.1	5590.8	5476.1	5358.1	5229.2	5233.4	5225.1	5233.4	5229.2	5358.1
52.5°	6056.4	6189.4	6218.5	6124.6	5954.1	5861.0	5869.3	5934.2	5869.3	5861.0	5954.1
55°	6747.3	7004.1	6876.9	7064.8	7118.0	7175.4	7058.2	6931.0	7058.2	7175.4	7118.0
57.5°	7762.3	7787.3	7979.3	8129.8	8064.1	7851.3	7690.0	7606.9	7690.0	7851.3	8064.1
60°	8533.8	8626.9	8305.2	7935.3	7589.4	7221.1	7105.6	7049.9	7105.6	7221.1	7589.4
62.5°	8019.2	7989.3	7355.0	6937.6	6656.6	6315.0	6248.4	6160.3	6248.4	6315.0	6656.6
65°	6295.8	6407.2	5987.4	5538.5	5166.9	5029.7	5033.8	5104.5	5033.8	5029.7	5166.9
67.5°	4478.5	4642.3	4173.4	3813.4	3325.4	3188.2	3092.6	3188.2	3092.6	3188.2	3325.4
70°	2770.1	2545.6	2178.1	1771.6	1510.6	1508.1	1526.4	1484.0	1526.4	1508.1	1510.6
72.5°	1047.5	1000.9	880.4	814.7	732.4	761.5	821.4	838.0	821.4	761.5	732.4
75°	432.3	419.0	372.4	355.0	331.7	325.9	377.4	407.4	377.4	325.9	331.7
77.5°	111.4	105.6	101.4	96.4	95.6	98.1	100.6	99.8	100.6	98.1	95.6
80°	59.9	63.2	58.2	54.0	57.4	58.2	58.2	56.5	58.2	58.2	57.4
82.5°	30.8	33.3	30.8	29.1	29.1	30.8	30.8	30.8	30.8	30.8	29.1
85°	14.1	15.0	15.8	14.1	14.1	15.0	15.0	15.8	15.0	15.0	14.1
87.5°	5.0	5.8	6.7	6.7	7.5	8.3	7.5	7.5	7.5	8.3	7.5
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°	3741.9	3741.9	3741.9	3741.9	3741.9	3741.9	3741.9	3741.9	3741.9	3741.9	3741.9
2.5°	3742.7	3745.2	3739.4	3737.8	3741.1	3736.9	3734.4	3732.8	3733.6	3736.9	3734.4
5°	3741.1	3740.3	3735.3	3735.3	3729.4	3720.3	3720.3	3713.7	3709.5	3705.3	3697.0
7.5°	3718.6	3712.8	3707.8	3707.8	3699.5	3688.7	3682.9	3673.7	3659.6	3645.5	3650.5
10°	3699.5	3700.3	3704.5	3713.7	3703.7	3699.5	3681.2	3667.9	3645.5	3630.5	3620.5
12.5°	3709.5	3726.1	3736.9	3745.2	3740.3	3726.1	3708.7	3688.7	3672.1	3653.8	3634.7
15°	3716.1	3748.6	3761.0	3770.2	3766.0	3766.0	3745.2	3736.1	3717.8	3701.2	3672.1
17.5°	3766.0	3791.0	3825.9	3822.6	3832.5	3824.2	3815.9	3800.1	3786.8	3770.2	3766.0
20°	3859.1	3904.9	3928.1	3934.0	3920.7	3907.4	3895.7	3882.4	3861.6	3849.2	3839.2
22.5°	3946.4	4025.4	4100.2	4104.4	4069.5	4040.4	4003.0	3971.4	3954.7	3929.0	3904.9
25°	4015.4	4131.8	4221.6	4244.1	4199.2	4144.3	4105.2	4112.7	4101.9	4067.0	4023.7
27.5°	4008.0	4101.9	4220.8	4281.5	4262.3	4220.8	4204.1	4224.9	4249.9	4194.2	4087.8
30°	4015.4	4061.2	4110.2	4195.8	4206.6	4205.8	4215.0	4252.4	4277.3	4223.3	4127.7
32.5°	4091.1	4045.4	4046.2	4090.3	4122.7	4148.4	4129.3	4143.5	4156.8	4206.6	4239.9
35°	4240.7	4077.8	3992.2	4005.5	4047.0	4057.0	4046.2	4032.1	4087.8	4244.9	4451.9
37.5°	4414.5	4187.5	4023.7	3973.9	3992.2	4029.6	4011.3	4036.2	4190.0	4418.6	4688.8
40°	4632.3	4391.2	4155.9	4061.2	4039.5	4083.6	4087.8	4148.4	4341.3	4599.0	4900.8
42.5°	4855.1	4676.4	4475.2	4337.2	4249.9	4277.3	4310.6	4433.6	4618.2	4830.2	5027.2
45°	5018.9	5004.7	4910.8	4742.9	4659.7	4568.3	4709.6	4772.0	4964.8	5079.6	5104.5
47.5°	5158.5	5310.7	5258.3	5210.1	5072.9	5042.2	5151.9	5230.9	5291.6	5291.6	5202.6
50°	5476.1	5590.8	5693.1	5650.7	5553.4	5541.0	5634.9	5703.1	5690.6	5678.1	5578.4
52.5°	6124.6	6218.5	6189.4	6056.4	5875.2	5814.5	6049.8	6128.7	6233.5	6340.7	6538.6
55°	7064.8	6876.9	7004.1	6747.3	6131.2	6070.5	6548.6	7019.1	7377.4	7675.0	7831.3
57.5°	8129.8	7979.3	7787.3	7762.3	6933.5	6623.4	7736.6	8138.1	8163.9	8078.3	7960.2
60°	7935.3	8305.2	8626.9	8533.8	7583.6	7214.5	8281.9	8297.7	7890.4	7471.4	7037.4
62.5°	6937.6	7355.0	7989.3	8019.2	6879.4	6148.7	7049.9	7267.7	6778.8	6194.4	6008.2
65°	5538.5	5987.4	6407.2	6295.8	5159.4	4243.2	5162.7	5590.8	5326.5	5007.2	4811.0
67.5°	3813.4	4173.4	4642.3	4478.5	3611.4	3031.9	3638.0	4112.7	3931.5	3711.2	3493.3
70°	1771.6	2178.1	2545.6	2770.1	2346.1	2144.9	2229.7	2441.7	2381.0	2025.2	1714.2
72.5°	814.7	880.4	1000.9	1047.5	978.5	811.4	980.2	991.8	966.9	848.8	743.2
75°	355.0	372.4	419.0	432.3	344.2	335.9	354.2	430.6	417.3	359.1	312.6
77.5°	96.4	101.4	105.6	111.4	126.4	119.7	118.1	104.8	94.8	84.8	84.0
80°	54.0	58.2	63.2	59.9	64.0	64.8	58.2	55.7	53.2	51.5	48.2
82.5°	29.1	30.8	33.3	30.8	30.8	30.8	28.3	27.4	28.3	27.4	26.6
85°	14.1	15.8	15.0	14.1	14.1	14.1	13.3	12.5	13.3	15.0	15.0
87.5°	6.7	6.7	5.8	5.0	4.2	5.0	4.2	4.2	5.0	5.0	6.7
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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CATALOG NUMBER: TRU35PXX5F

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3741.9	3741.9	3741.9	3741.9
2.5°	3732.8	3732.8	3732.8	3736.9
5°	3691.2	3692.9	3691.2	3691.2
7.5°	3643.0	3637.2	3638.8	3637.2
10°	3606.4	3605.6	3609.7	3612.2
12.5°	3621.4	3618.9	3609.7	3608.9
15°	3667.9	3659.6	3657.1	3653.8
17.5°	3749.4	3730.3	3707.8	3695.4
20°	3813.4	3792.6	3760.2	3741.1
22.5°	3879.9	3825.9	3791.0	3778.5
25°	3932.3	3869.9	3817.6	3791.0
27.5°	3986.3	3909.0	3853.3	3820.1
30°	4046.2	3978.9	3943.1	3924.0
32.5°	4259.9	4210.8	4165.1	4141.8
35°	4561.6	4614.0	4553.3	4514.2
37.5°	4925.8	5046.3	5013.9	4971.5
40°	5121.1	5211.7	5176.8	5162.7
42.5°	5142.7	5112.8	5072.9	5029.7
45°	5049.6	4945.7	4855.1	4825.2
47.5°	5058.8	4944.1	4821.8	4809.4
50°	5459.5	5341.4	5168.5	5179.3
52.5°	6562.7	6372.3	6216.9	6131.2
55°	7710.8	7515.4	7291.8	7245.2
57.5°	7754.0	7419.8	7138.8	7177.9
60°	6758.1	6505.3	6375.6	6410.6
62.5°	5840.3	5684.8	5628.3	5613.3
65°	4709.6	4673.9	4574.1	4536.7
67.5°	3239.8	3204.0	3040.3	2934.7
70°	1522.2	1444.1	1363.4	1292.8
72.5°	712.5	713.3	732.4	716.6
75°	310.9	317.6	320.1	300.9
77.5°	84.8	86.5	84.0	83.1
80°	47.4	50.7	49.9	49.9
82.5°	26.6	27.4	28.3	29.1
85°	15.0	14.1	15.0	15.0
87.5°	7.5	7.5	7.5	8.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)