

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: 768357_350MP

Luminaire Tested: **TRU35PXX3F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768357_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TRU35PXX3F
Description: ARCHITECTURAL AREA LUMINAIRE - TYPE III
Light Source: 350 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 22879.9 lumens
Efficiency: 69.3%
Efficacy: 57.6 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.1' x H: 0')
IES Classification: Type III - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

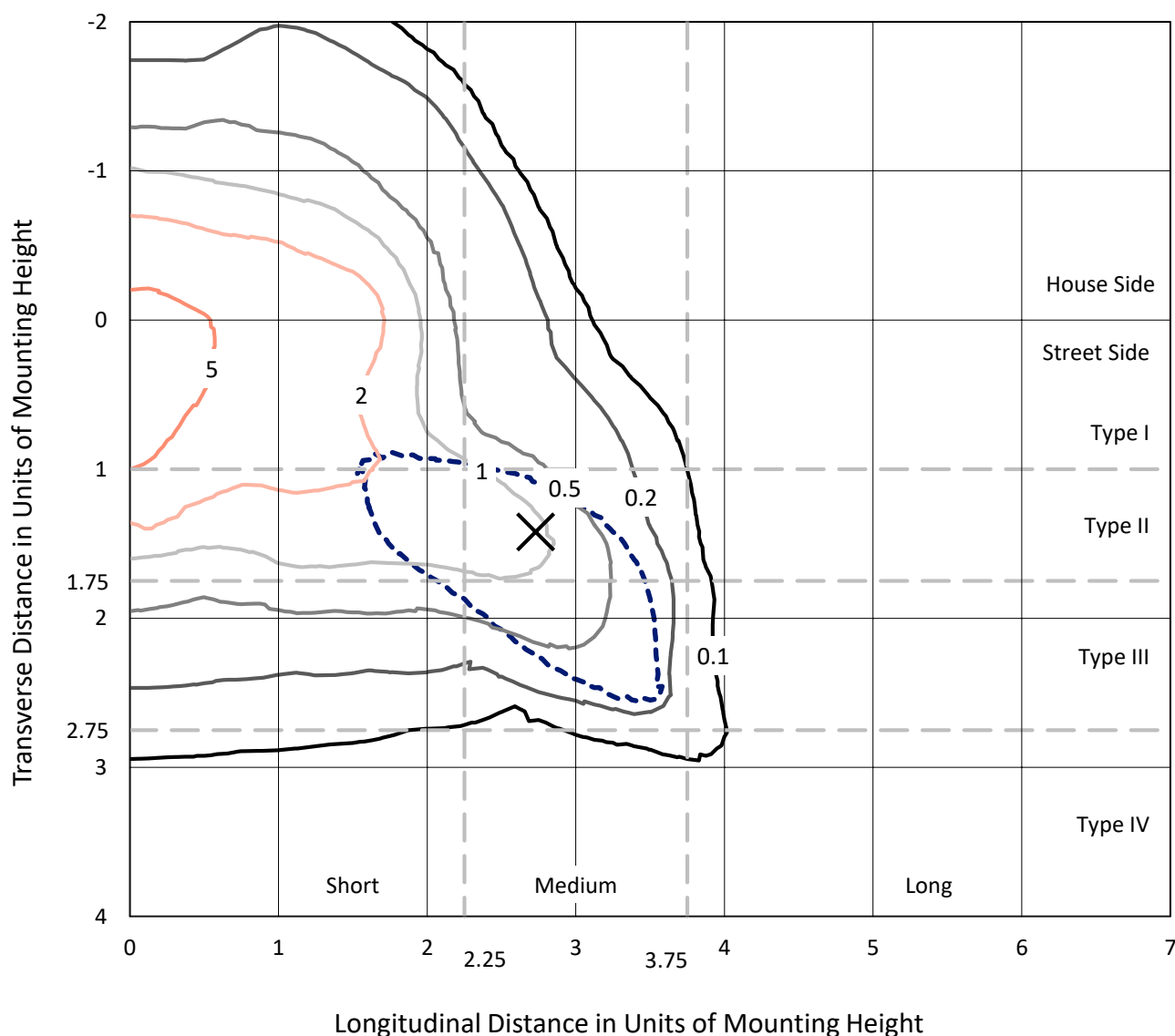
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

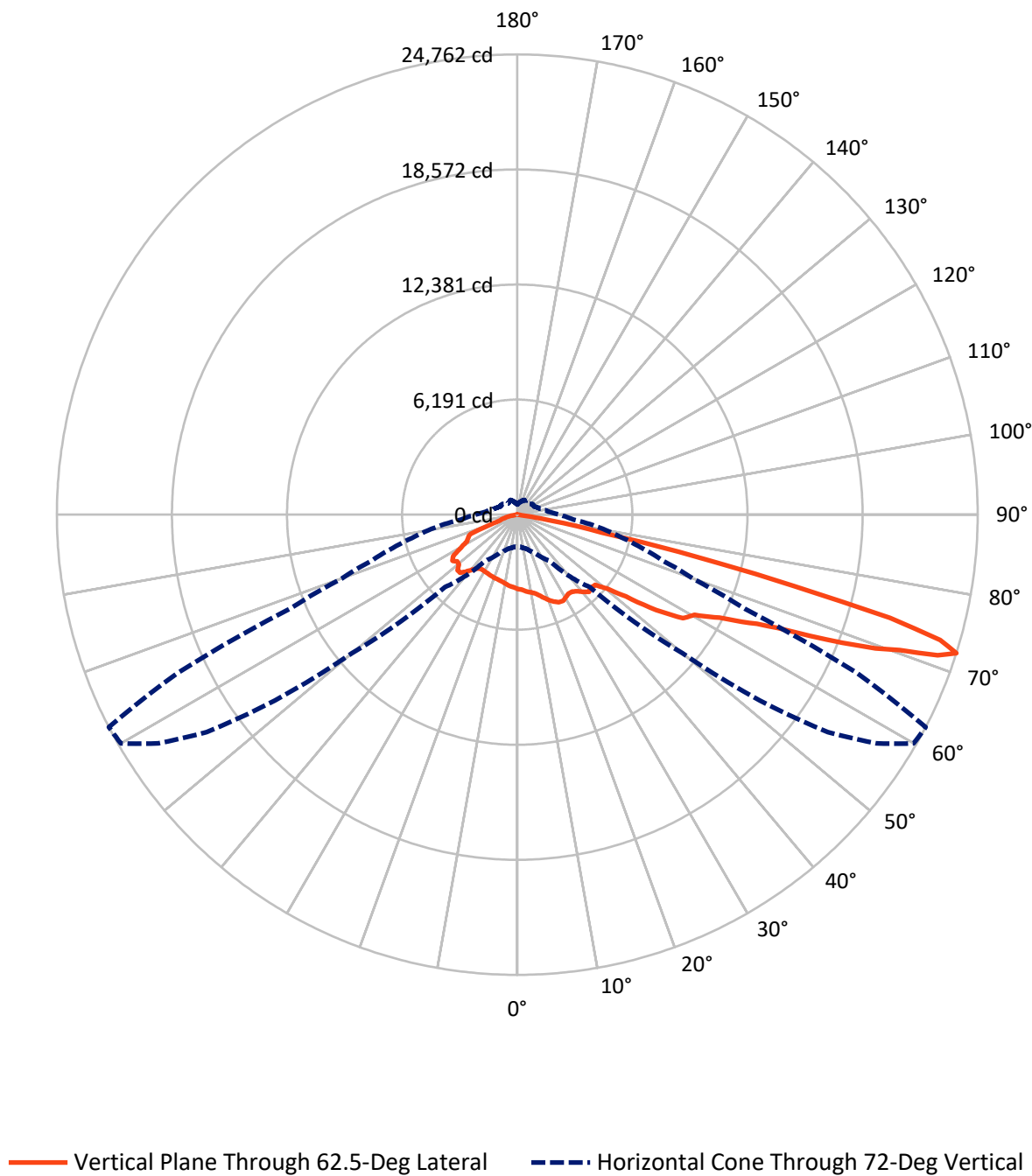
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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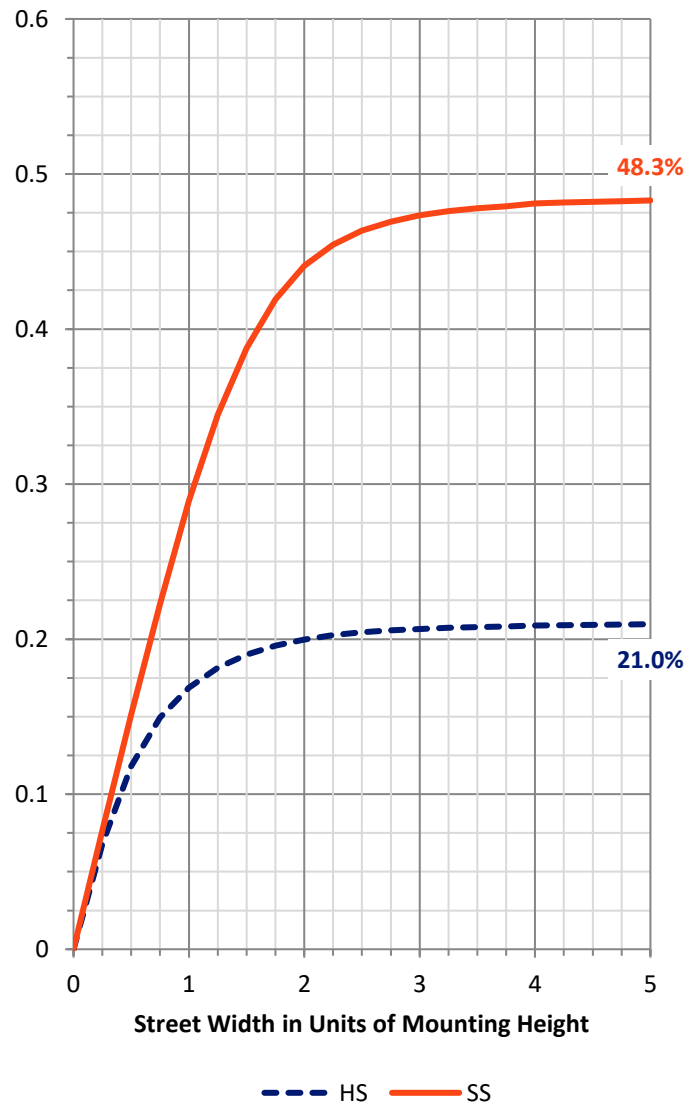
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6953.9	0.0	6953.9
	% Lamp	21.1	0.0	21.1
Street Side	Lumens	15926.0	0.0	15926.0
	% Lamp	48.3	0.0	48.3
Total	Lumens	22879.9	0.0	22879.9
	% Lamp	69.3	0.0	69.3

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	381.4	1.7	1.2
10°-20°	1170.6	5.1	3.5
20°-30°	2058.1	9.0	6.2
30°-40°	2897.4	12.7	8.8
40°-50°	3765.2	16.5	11.4
50°-60°	4861.4	21.2	14.7
60°-70°	4755.8	20.8	14.4
70°-80°	2881.0	12.6	8.7
80°-90°	108.9	0.5	0.3
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°	22879.9	100.0	69.3
0°-180°	22879.9	100.0	69.3

Coefficient of Utilization

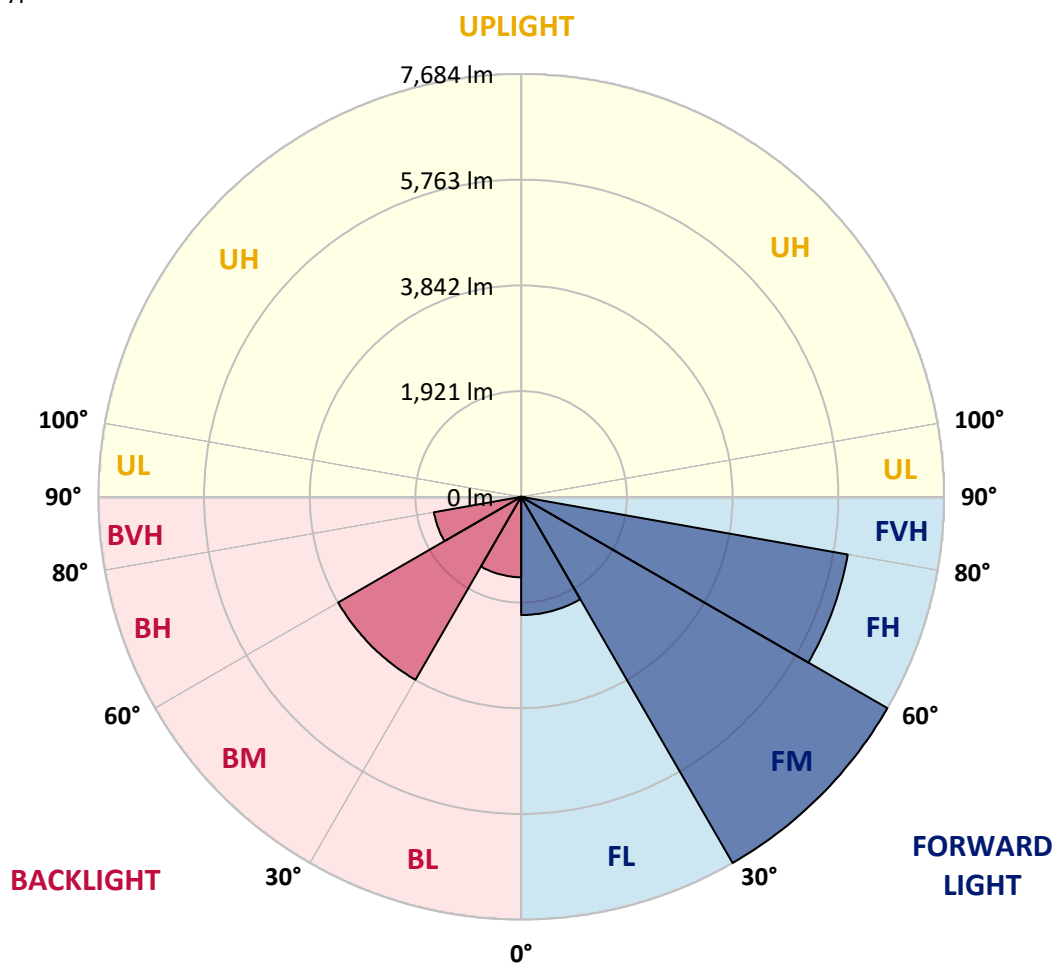


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2149.0	6.5			
FM	(30°-60°)	7684.3	23.3			
FH	(60°-80°)	6026.6	18.3			G3/7500
FVH	(80°-90°)	66.0	0.2			G1/100
BL	(0°-30°)	1461.1	4.4	B3/2500		
BM	(30°-60°)	3839.7	11.6	B3/5000		
BH	(60°-80°)	1610.2	4.9	B3/2500		G3/2500
BVH	(80°-90°)	43.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		10120.1	30.7			

BUG Rating: B3-U0-G3
Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	52.5°	55°	57.5°	60°
0°	4000.1	4000.1	4000.1	4000.1	4000.1	4000.1	4000.1	4000.1	4000.1	4000.1	4000.1
2.5°	4149.2	4129.0	4129.0	4123.0	4098.8	4074.6	4068.6	4048.5	4048.5	4038.4	4038.4
5°	4290.2	4259.9	4259.9	4229.7	4197.5	4159.2	4139.1	4137.1	4118.9	4129.0	4108.9
7.5°	4411.0	4390.9	4390.9	4330.4	4280.1	4249.9	4239.8	4229.7	4229.7	4229.7	4211.6
10°	4592.3	4608.4	4531.8	4525.8	4471.4	4407.0	4376.8	4350.6	4330.4	4310.3	4282.1
12.5°	4874.3	4874.3	4773.5	4713.1	4632.6	4521.8	4451.3	4431.1	4390.9	4380.8	4360.6
15°	5095.8	5065.6	4975.0	4914.5	4823.9	4682.9	4713.1	4672.8	4642.6	4612.4	4572.1
17.5°	5236.8	5226.7	5176.4	5146.2	5085.7	5085.7	4977.0	4934.7	4876.3	4815.8	4763.5
20°	5408.0	5418.1	5448.3	5377.8	5357.7	5236.8	5196.5	5146.2	5085.7	5025.3	4975.0
22.5°	5559.1	5589.3	5659.8	5603.4	5569.1	5418.1	5327.4	5297.2	5246.9	5186.4	5136.1
25°	5841.0	6012.3	5994.1	5937.7	5831.0	5629.6	5508.7	5448.3	5428.1	5369.7	5317.4
27.5°	6707.1	6807.8	6465.4	6274.1	6082.7	5770.6	5619.5	5538.9	5496.6	5448.3	5347.6
30°	7794.8	7623.6	7019.3	6525.9	6135.1	5756.5	5609.4	5508.7	5438.2	5347.6	5256.9
32.5°	8701.1	8409.1	7166.4	6475.5	5891.4	5669.8	5518.8	5450.3	5367.7	5246.9	5142.1
35°	9426.2	9033.5	7220.7	6292.2	5770.6	5639.6	5528.9	5468.4	5363.7	5222.7	5126.0
37.5°	9466.5	9134.2	7351.7	6280.1	5820.9	5730.3	5625.5	5528.9	5418.1	5307.3	5267.0
40°	9406.1	8993.2	7301.3	6292.2	5921.6	5871.3	5802.8	5750.4	5669.8	5559.1	5490.6
42.5°	9190.6	8767.6	7059.6	6284.2	6082.7	6092.8	6092.8	6062.6	5984.1	5845.1	5746.4
45°	8882.4	8459.5	6918.6	6475.5	6344.6	6354.7	6374.8	6274.1	6143.2	5921.6	5728.3
47.5°	8540.0	8076.8	6767.6	6676.9	6519.8	6425.2	6535.9	6515.8	6384.9	6173.4	5881.3
50°	7915.6	7559.1	6445.3	6233.8	6209.6	6594.3	7180.5	7261.0	7160.3	6928.7	6596.4
52.5°	6687.0	9849.2	5629.6	5430.2	5881.3	7367.8	8227.8	8620.6	8862.3	8560.2	7935.8
55°	5055.5	5045.5	4834.0	4823.9	5649.7	8207.7	9899.6	10483.7	10705.2	10447.4	9547.1
57.5°	4209.6	4139.1	4118.9	4612.4	5478.5	8922.7	10892.6	11682.1	12084.9	12014.4	11384.0
60°	3824.9	3651.7	3575.1	4834.0	6072.7	8310.4	10264.1	11067.8	11792.9	12107.1	11823.1
62.5°	3363.6	3256.9	3172.3	4541.9	7291.2	8713.2	10199.7	11329.6	12074.9	12465.6	12800.0
65°	2840.0	2870.2	2781.5	3732.2	7059.6	9929.8	12093.0	13293.4	14346.8	15061.9	14955.1
66°	2658.7	2688.9	2678.8	3454.3	6243.9	9980.1	12528.0	14089.0	15267.3	16193.8	16304.6
67°	2483.5	2507.6	2588.2	3142.1	5408.0	9698.2	12789.9	14713.4	16141.4	17472.8	18046.8
68°	2334.4	2350.5	2437.1	2922.5	4693.0	9345.7	12810.0	15065.9	17029.7	18570.5	19768.9
69°	2229.7	2205.5	2306.2	2699.0	4149.2	8550.1	12598.5	15267.3	18036.8	20050.9	20957.3
70°	2034.3	2034.3	2155.1	2558.0	3706.0	7532.9	12219.9	15549.3	18912.9	21138.6	22226.2
71°	1919.5	1911.4	2016.2	2437.1	3335.4	6445.3	11849.3	15891.7	19638.0	22135.6	23585.8
72°	1744.3	1736.2	1895.3	2280.0	3045.4	5508.7	11601.5	16435.5	20393.3	22888.9	24613.0
73°	1542.8	1563.0	1756.3	2124.9	2749.3	4701.0	11420.3	16912.9	20806.2	22981.5	24260.5
74°	1424.0	1424.0	1591.2	1994.0	2447.2	3947.7	10963.0	17029.7	20496.0	22085.2	21434.6
75°	1234.7	1232.7	1434.1	1855.0	2223.6	3192.4	10113.1	16294.5	19144.5	19650.1	17966.3
77.5°	727.1	717.0	854.0	1192.4	1442.1	1472.3	5313.3	10090.9	11299.4	8074.7	6223.7
80°	126.9	137.0	227.6	263.9	390.7	348.4	1250.8	2688.9	2535.8	1935.6	1430.1
82.5°	50.4	50.4	54.4	56.4	82.6	110.8	187.3	269.9	320.3	271.9	215.5
85°	28.2	24.2	24.2	26.2	34.2	38.3	42.3	42.3	46.3	52.4	50.4
87.5°	16.1	14.1	10.1	6.0	6.0	6.0	6.0	8.1	8.1	8.1	8.1
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):

	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°	85°	90°	95°
0°	4000.1	4000.1	4000.1	4000.1	4000.1	4000.1	4000.1	4000.1	4000.1	4000.1	4000.1
2.5°	4032.3	4026.3	4028.3	4018.2	4018.2	4008.2	4022.3	4018.2	3978.0	3967.9	3967.9
5°	4108.9	4098.8	4096.8	4086.7	4078.7	4056.5	4058.5	4038.4	4018.2	3998.1	3978.0
7.5°	4199.5	4181.4	4169.3	4159.2	4139.1	4121.0	4108.9	4078.7	4048.5	4008.2	3978.0
10°	4255.9	4229.7	4209.6	4189.4	4159.2	4129.0	4098.8	4068.6	4018.2	3967.9	3937.7
12.5°	4350.6	4350.6	4328.4	4300.2	4282.1	4249.9	4209.6	4169.3	4088.7	4008.2	3937.7
15°	4521.8	4491.6	4447.3	4411.0	4370.7	4320.4	4282.1	4229.7	4139.1	4018.2	3927.6
17.5°	4713.1	4662.8	4582.2	4503.7	5601.4	4390.9	4350.6	4300.2	4199.5	4078.7	3978.0
20°	4914.5	4844.0	4773.5	4703.1	4632.6	4572.1	4507.7	4461.4	4326.4	4189.4	4060.5
22.5°	5085.7	5035.4	4964.9	4894.4	4813.8	4733.3	4672.8	4592.3	4461.4	4300.2	4159.2
25°	5220.7	5144.2	5067.6	5005.2	4918.6	4854.1	4773.5	4713.1	4602.3	4455.3	4288.1
27.5°	5256.9	5146.2	5075.7	4995.1	4934.7	4874.3	4823.9	4773.5	4672.8	4596.3	4431.1
30°	5146.2	5055.5	4995.1	4954.8	4914.5	4864.2	4834.0	4819.9	4763.5	4672.8	4511.7
32.5°	5065.6	5015.2	4956.8	4954.8	4914.5	4874.3	4850.1	4834.0	4783.6	4699.0	4552.0
35°	5085.7	5045.5	5035.4	4993.1	4991.1	4979.0	4958.8	4934.7	4884.3	4785.6	4612.4
37.5°	5226.7	5236.8	5232.8	5196.5	5186.4	5146.2	5146.2	5118.0	5095.8	4964.9	4745.3
40°	5470.4	5498.6	5488.6	5468.4	5428.1	5397.9	5351.6	5347.6	5309.3	5230.8	4995.1
42.5°	5669.8	5609.4	5569.1	5528.9	5512.7	5508.7	5478.5	5478.5	5478.5	5524.8	5369.7
45°	5587.3	5508.7	5458.4	5426.1	6888.4	5538.9	5619.5	5679.9	5780.6	5911.5	5810.8
47.5°	5639.6	5538.9	5579.2	5659.8	5820.9	5998.2	6133.1	6173.4	6314.4	6394.9	6344.6
50°	6254.0	6143.2	6163.3	6344.6	6636.6	6737.3	6787.7	6888.4	7089.8	7150.3	6989.1
52.5°	7313.4	6989.1	7101.9	7351.7	7474.5	7694.1	7680.0	7712.2	7917.6	7935.8	7563.2
55°	9055.6	8519.9	8509.8	8495.7	8429.2	8435.3	8439.3	8499.7	9255.0	9587.4	9255.0
57.5°	10513.9	9607.5	9144.3	9043.6	9053.6	9083.8	9228.9	9506.8	10957.0	11591.5	10312.5
60°	10946.9	10030.5	9367.8	8848.2	8356.7	8338.6	8449.4	8610.5	9083.8	9450.4	8902.6
62.5°	12205.8	11007.4	9567.2	8501.7	7849.2	7472.5	7160.3	6938.8	7331.5	6958.9	6346.6
65°	14163.5	11873.4	9597.4	7704.1	6556.1	5992.1	5599.4	5367.7	5005.2	4431.1	4018.2
66°	15277.4	12618.7	9939.9	7655.8	6272.1	5508.7	4958.8	4662.8	4159.2	3837.0	3706.0
67°	17019.6	13867.5	10634.7	7875.3	6032.4	4954.8	4509.7	4118.9	3635.5	3706.0	3675.8
68°	18802.1	15249.2	11484.7	8241.9	5839.0	4672.8	4159.2	3978.0	3575.1	3770.5	3738.3
69°	20564.5	17059.9	12393.1	8670.9	6042.5	4703.1	4350.6	4219.7	3605.3	3857.1	3615.4
70°	21823.4	18268.4	13043.7	9386.0	6747.4	5256.9	4823.9	4558.0	3659.7	3561.0	2940.7
71°	23843.6	19603.8	13353.8	9949.9	7659.8	6223.7	5478.5	4926.6	3514.7	2930.6	2114.9
72°	24762.0	20137.5	13233.0	10060.7	8181.5	6948.8	5810.8	4854.1	3037.3	2235.7	1706.0
73°	23728.8	18872.6	12115.1	9261.1	7722.3	6515.8	5518.8	4501.6	2467.3	1810.7	1486.4
74°	20806.2	16324.7	10554.2	8237.9	6791.7	5810.8	4817.9	3734.2	2000.1	1532.8	1268.9
75°	15347.9	12155.4	8217.8	6415.1	5375.8	4614.4	3863.1	3212.6	1665.7	1307.2	1154.1
77.5°	4622.5	3887.3	2666.7	2427.1	2193.4	1945.7	1750.3	1635.5	1073.5	1089.7	1053.4
80°	1202.5	789.5	614.3	596.2	634.5	564.0	668.7	578.1	487.4	586.1	664.7
82.5°	173.2	163.1	137.0	122.9	141.0	151.1	171.2	183.3	153.1	177.2	199.4
85°	48.3	42.3	42.3	40.3	42.3	38.3	32.2	34.2	28.2	28.2	28.2
87.5°	8.1	8.1	6.0	6.0	4.0	4.0	4.0	4.0	2.0	2.0	4.0
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):

	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4000.1	4000.1	4000.1	4000.1	4000.1	4000.1	4000.1	4000.1	4000.1
2.5°	3947.7	3927.6	3917.5	3907.5	3887.3	3887.3	3877.2	3867.2	3869.2
5°	3927.6	3897.4	3857.1	3796.7	3766.5	3726.2	3706.0	3706.0	3706.0
7.5°	3907.5	3847.0	3786.6	3726.2	3685.9	3629.5	3581.2	3524.8	3524.8
10°	3849.1	3786.6	3726.2	3675.8	3609.4	3534.8	3440.2	3373.7	3343.5
12.5°	3816.8	3726.2	3661.7	3595.3	3514.7	3403.9	3313.3	3252.9	3242.8
15°	3794.7	3685.9	3595.3	3534.8	3444.2	3309.3	3222.6	3174.3	3162.2
17.5°	3806.8	3665.8	3544.9	3432.1	3343.5	3232.7	3140.1	3111.9	3081.7
20°	3847.0	3665.8	3474.4	3357.6	3273.0	3162.2	3081.7	3041.4	3041.4
22.5°	3907.5	3645.6	3424.1	3303.2	3212.6	3099.8	2991.0	2968.9	2960.8
25°	3967.9	3625.5	3393.9	3262.9	3162.2	3021.2	2900.4	2870.2	2880.2
27.5°	4038.4	3595.3	3353.6	3222.6	3081.7	2884.3	2759.4	2741.3	2759.4
30°	4088.7	3595.3	3323.4	3148.1	3001.1	2769.5	2598.3	2598.3	2604.3
32.5°	4118.9	3585.2	3254.9	3061.5	2882.3	2568.0	2431.1	2417.0	2417.0
35°	4169.3	3615.4	3222.6	2960.8	2688.9	2390.8	2306.2	2255.9	2255.9
37.5°	4310.3	3736.3	3333.4	2819.8	2453.2	2245.8	2145.1	2074.6	2094.7
40°	4602.3	4008.2	3353.6	2678.8	2324.3	2124.9	2016.2	1969.8	2006.1
42.5°	4954.8	4380.8	3353.6	2558.0	2235.7	2018.2	1927.5	1847.0	1893.3
45°	5549.0	4753.4	3273.0	2527.8	2155.1	1945.7	1859.1	1750.3	1840.9
47.5°	6036.4	4805.8	3121.9	2517.7	2090.7	1843.0	1750.3	1627.4	1615.4
50°	6072.7	4481.5	3021.2	2517.7	2034.3	1822.8	1579.1	1528.7	1456.2
52.5°	6344.6	4431.1	3073.6	2517.7	2028.3	1895.3	1416.0	1361.6	1345.5
55°	6650.7	4662.8	3132.0	2517.7	1996.0	1893.3	1295.1	1206.5	1218.6
57.5°	6807.8	4451.3	3101.8	2477.4	1935.6	1657.6	1196.4	1111.8	1107.8
60°	6050.5	3716.1	2938.7	2447.2	1893.3	1526.7	1107.8	1029.2	1019.2
62.5°	4431.1	3158.2	2779.5	2386.8	1947.7	1607.3	1023.2	922.5	916.4
65°	3585.2	2980.9	2739.3	2286.1	2100.8	1704.0	938.6	860.0	868.1
66°	3605.3	2940.7	2709.0	2225.6	2042.4	1728.1	932.6	839.9	866.1
67°	3555.0	2870.2	2648.6	2155.1	1931.6	1802.7	926.5	817.7	835.9
68°	3418.0	2759.4	2578.1	2060.5	1778.5	1840.9	894.3	773.4	791.6
69°	2991.0	2255.9	2195.4	1689.9	1559.0	1734.2	864.1	709.0	743.2
70°	2155.1	1589.2	1561.0	1238.7	1186.3	1470.3	803.6	652.6	652.6
71°	1546.9	1160.2	1148.1	904.4	924.5	1101.7	747.3	620.4	590.1
72°	1248.8	1017.1	989.0	805.7	781.5	870.1	727.1	588.1	549.9
73°	1047.4	916.4	894.3	719.1	684.8	662.7	723.1	543.8	501.5
74°	898.3	866.1	799.6	666.7	596.2	535.8	709.0	505.6	445.1
75°	823.8	801.6	684.8	588.1	515.6	465.3	670.7	457.2	402.8
77.5°	749.3	570.0	449.2	408.9	304.1	245.7	459.2	386.7	314.2
80°	678.8	304.1	219.5	209.5	157.1	114.8	259.8	310.2	235.7
82.5°	233.6	100.7	86.6	94.7	76.5	56.4	80.6	124.9	100.7
85°	40.3	34.2	30.2	36.3	34.2	28.2	28.2	26.2	24.2
87.5°	6.0	10.1	10.1	8.1	10.1	10.1	12.1	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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