

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\_400MP

Luminaire Tested: **TRU40PXX5F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768359\_400MP  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: TRU40PXX5F  
Description: ARCHITECTURAL AREA LUMINAIRE - TYPE V  
Light Source: 400 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 40000 (1 lamp)  
Luminaire Lumens: 26156.7 lumens  
Efficiency: 65.4%  
Efficacy: 57.9 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

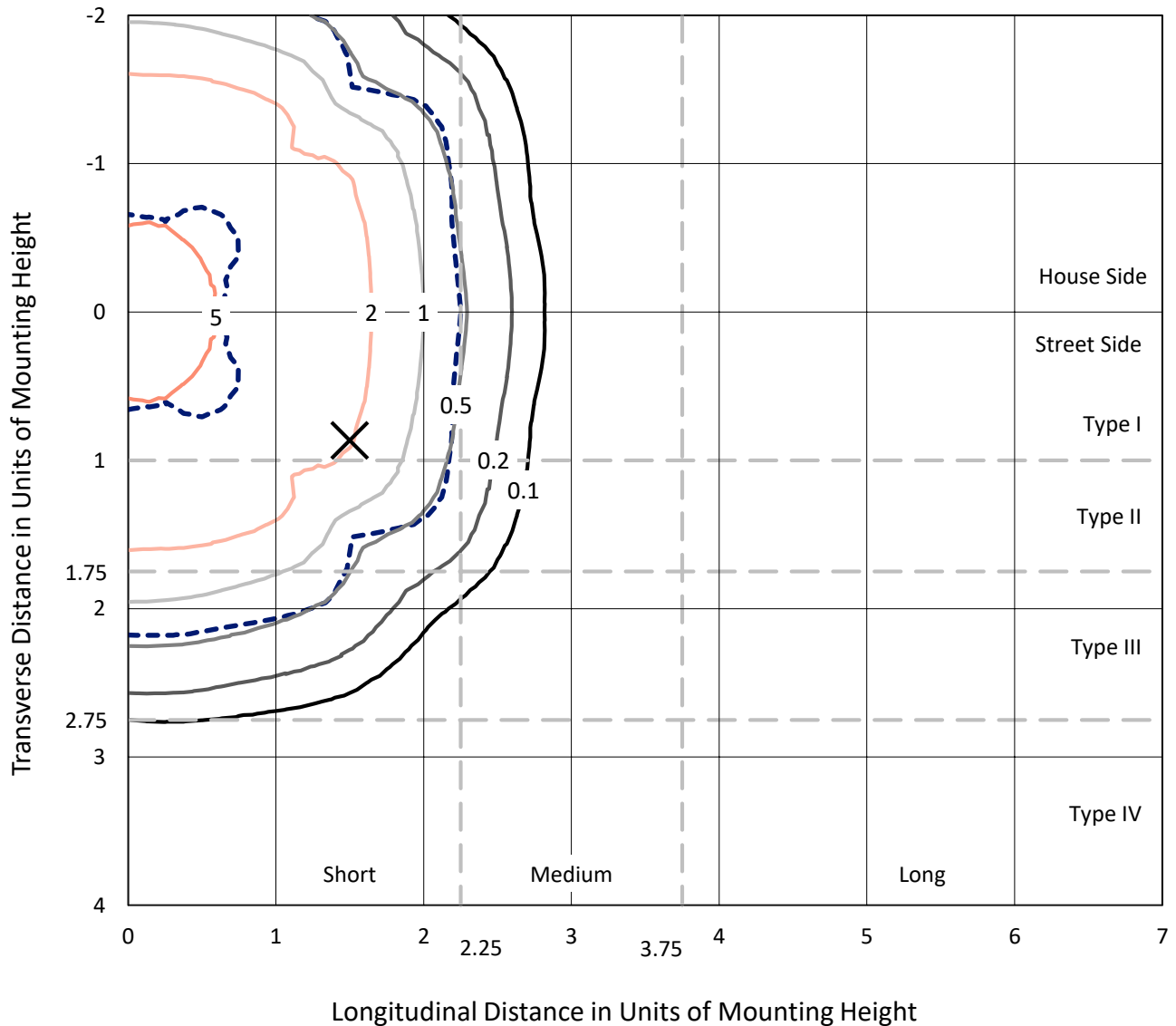
Input Watts (W): 452  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

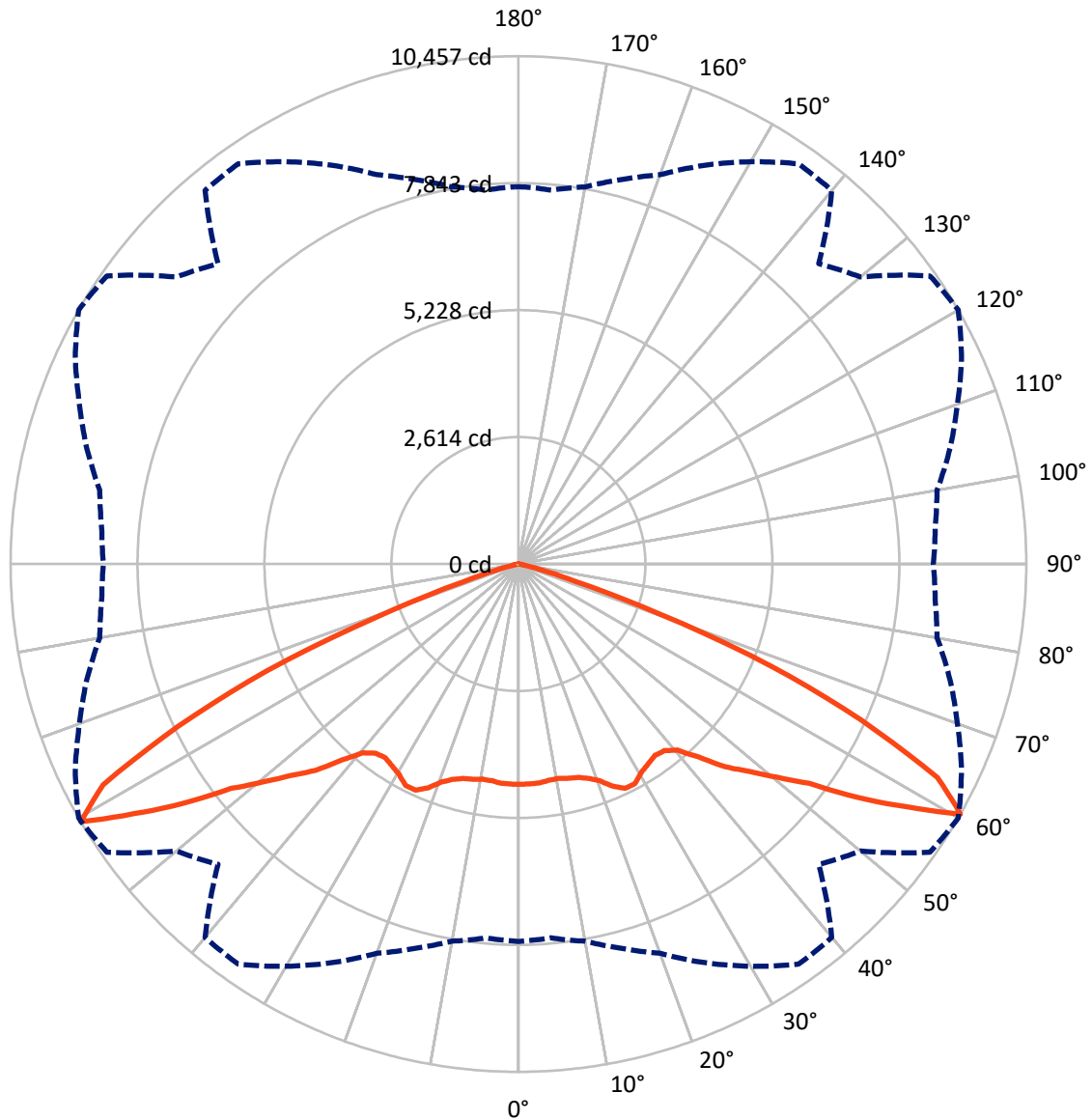
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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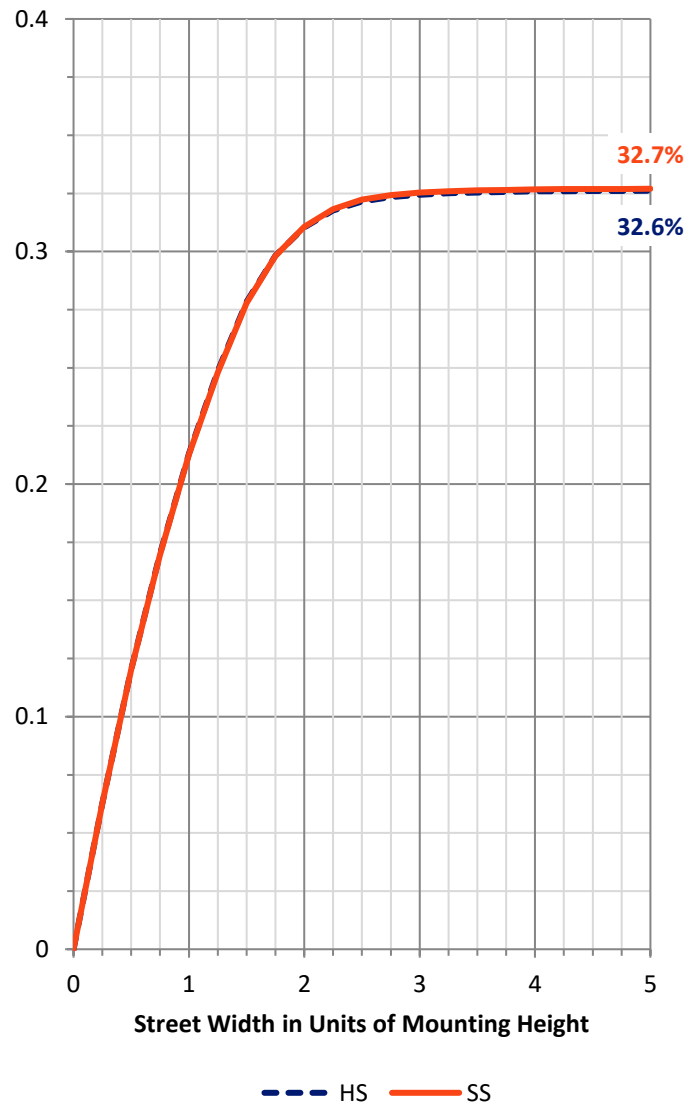
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13078.3	0.0	13078.3
	% Lamp	32.7	0.0	32.7
<b>Street Side</b>	Lumens	13078.3	0.0	13078.3
	% Lamp	32.7	0.0	32.7
<b>Total</b>	Lumens	26156.7	0.0	26156.7
	% Lamp	65.4	0.0	65.4

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	427.9	1.6	1.1
10°-20°	1283.6	4.9	3.2
20°-30°	2247.3	8.6	5.6
30°-40°	3286.4	12.6	8.2
40°-50°	4665.0	17.8	11.7
50°-60°	7479.1	28.6	18.7
60°-70°	6011.2	23.0	15.0
70°-80°	730.5	2.8	1.8
80°-90°	25.6	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°	26156.7	100.0	65.4
0°-180°	26156.7	100.0	65.4

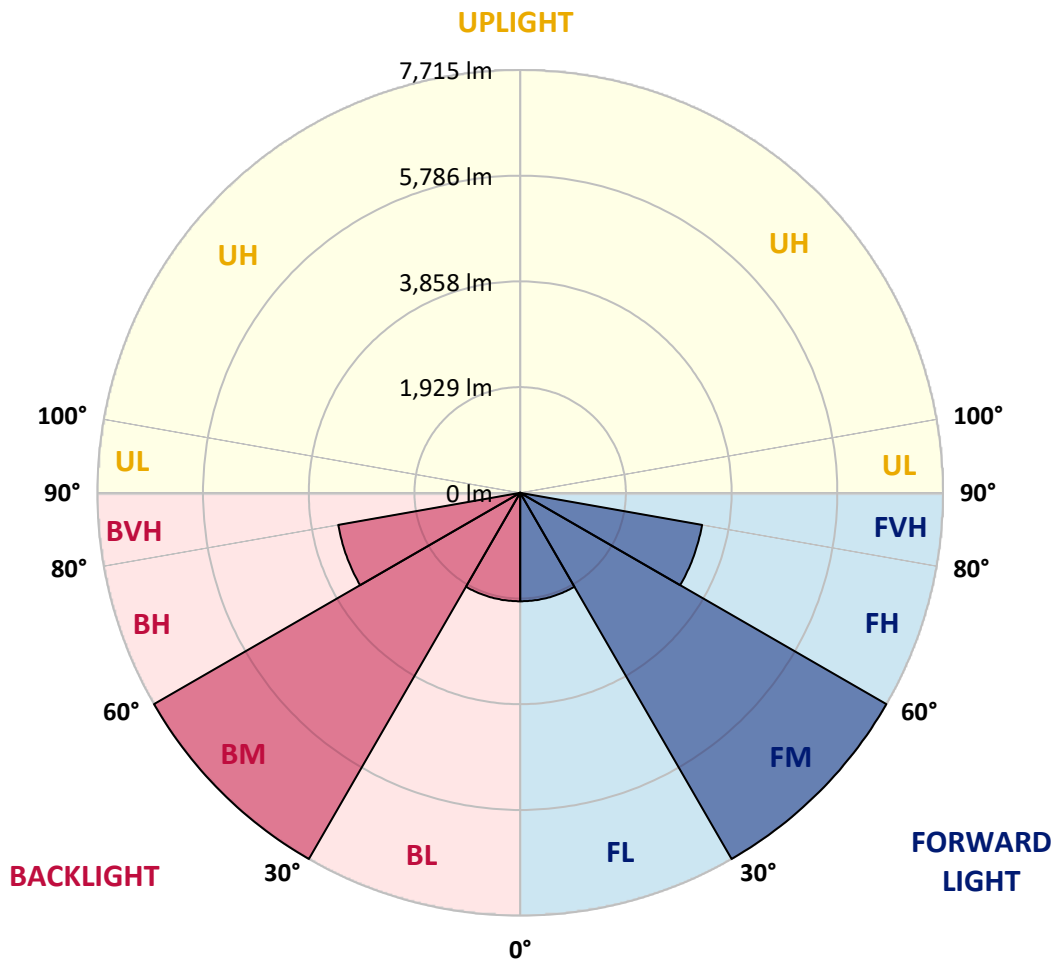


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1979.4	4.9			
FM	(30°-60°)	7715.3	19.3			
FH	(60°-80°)	3370.9	8.4			G2/5000
FVH	(80°-90°)	12.8	0.0			G1/100
BL	(0°-30°)	1979.4	4.9	B3/2500		
BM	(30°-60°)	7715.3	19.3	B4/8500		
BH	(60°-80°)	3370.9	8.4	B4/5000		G2/5000
BVH	(80°-90°)	12.8	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		13843.3	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°	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7
2.5°	4529.6	4524.6	4524.6	4524.6	4526.6	4529.6	4525.6	4524.6	4526.6	4529.6	4534.7
5°	4474.2	4474.2	4476.2	4474.2	4481.2	4491.3	4496.4	4501.4	4509.5	4509.5	4520.5
7.5°	4408.7	4410.7	4408.7	4415.7	4424.8	4418.8	4435.9	4453.0	4464.1	4471.2	4484.3
10°	4378.5	4375.4	4370.4	4371.4	4388.5	4400.6	4418.8	4446.0	4462.1	4484.3	4489.3
12.5°	4374.4	4375.4	4386.5	4389.5	4405.7	4428.8	4451.0	4471.2	4495.3	4516.5	4533.6
15°	4428.8	4432.9	4435.9	4446.0	4451.0	4486.3	4506.4	4528.6	4539.7	4564.9	4564.9
17.5°	4479.2	4494.3	4521.5	4544.7	4564.9	4569.9	4590.1	4606.2	4625.3	4635.4	4645.5
20°	4534.7	4557.8	4597.1	4622.3	4653.6	4665.7	4680.8	4706.0	4722.1	4736.2	4752.3
22.5°	4580.0	4595.1	4637.4	4702.9	4733.2	4762.4	4793.6	4813.8	4852.1	4897.4	4932.7
25°	4595.1	4627.4	4690.8	4766.4	4877.3	4929.7	4972.0	4985.1	4976.0	5023.4	5089.9
27.5°	4630.4	4670.7	4738.2	4831.9	4954.9	5083.8	5151.4	5121.1	5095.9	5116.1	5166.5
30°	4756.3	4779.5	4822.9	4904.5	5003.2	5119.1	5184.6	5154.4	5109.0	5098.0	5099.0
32.5°	5020.4	5048.6	5104.0	5163.5	5139.3	5099.0	5038.5	5022.4	5005.2	5028.4	4997.2
35°	5471.8	5519.2	5592.7	5529.2	5396.2	5145.3	4954.9	4887.3	4904.5	4917.6	4905.5
37.5°	6026.0	6077.4	6116.7	5970.6	5683.4	5355.9	5078.8	4892.4	4862.2	4884.3	4839.0
40°	6257.8	6274.9	6317.3	6207.4	5940.4	5574.6	5262.2	5028.4	4954.9	4949.8	4896.4
42.5°	6096.6	6149.0	6197.4	6233.6	6093.6	5854.7	5597.8	5374.1	5224.9	5184.6	5151.4
45°	5848.7	5885.0	5994.8	6120.8	6187.3	6157.0	6018.0	5784.2	5708.6	5537.3	5648.2
47.5°	5829.5	5844.7	5992.8	6131.9	6306.2	6414.0	6414.0	6340.4	6244.7	6111.7	6149.0
50°	6278.0	6264.9	6474.5	6617.6	6761.7	6882.6	6897.7	6912.8	6830.2	6716.3	6731.4
52.5°	7431.8	7535.6	7724.0	7954.8	7925.6	7685.7	7555.7	7428.8	7333.0	7047.9	7121.4
55°	8782.1	8838.5	9109.6	9346.4	9492.5	9303.1	8942.3	8508.0	7937.7	7358.2	7431.8
57.5°	8700.5	8653.1	8993.7	9398.8	9648.7	9791.8	9895.6	9864.4	9377.7	8028.3	8404.2
60°	7770.4	7728.1	7885.3	8191.6	8530.2	9056.2	9564.1	10057.9	10038.7	8744.8	9192.2
62.5°	6804.0	6822.1	6890.7	7079.1	7282.6	7508.4	8216.8	8809.3	8545.3	7452.9	8338.7
65°	5499.0	5544.4	5665.3	5708.6	5831.6	6069.4	6456.3	6776.8	6257.8	5143.3	6253.8
67.5°	3557.2	3685.2	3883.7	3927.0	4234.4	4498.4	4765.4	4985.1	4409.7	3675.1	4377.4
70°	1567.0	1652.6	1750.4	1845.1	2077.9	2454.8	2886.1	2959.6	2702.7	2599.9	2843.7
72.5°	868.6	887.8	864.6	863.6	900.9	1028.9	1172.0	1202.2	1188.1	983.5	1186.1
75°	364.8	388.0	384.9	376.9	378.9	435.3	505.9	522.0	429.3	407.1	417.2
77.5°	100.8	101.8	104.8	102.8	101.8	102.8	114.9	127.0	143.1	145.1	153.2
80°	60.5	60.5	61.5	57.4	58.4	62.5	64.5	67.5	70.5	78.6	77.6
82.5°	35.3	34.3	33.3	32.2	32.2	33.3	34.3	33.3	34.3	37.3	37.3
85°	18.1	18.1	17.1	18.1	18.1	18.1	16.1	15.1	16.1	17.1	17.1
87.5°	10.1	9.1	9.1	9.1	8.1	6.0	6.0	5.0	5.0	6.0	5.0
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7
2.5°	4530.6	4532.6	4539.7	4536.7	4536.7	4539.7	4536.7	4544.7	4536.7	4539.7	4536.7
5°	4527.6	4527.6	4533.6	4534.7	4541.7	4546.7	4549.8	4549.8	4549.8	4546.7	4541.7
7.5°	4494.3	4494.3	4500.4	4507.4	4510.5	4504.4	4504.4	4499.4	4504.4	4504.4	4510.5
10°	4501.4	4490.3	4485.3	4484.3	4476.2	4466.1	4461.1	4451.0	4461.1	4466.1	4476.2
12.5°	4539.7	4529.6	4516.5	4496.4	4472.2	4454.0	4430.9	4428.8	4430.9	4454.0	4472.2
15°	4569.9	4558.8	4543.7	4504.4	4479.2	4456.0	4440.9	4439.9	4440.9	4456.0	4479.2
17.5°	4633.4	4637.4	4595.1	4564.9	4529.6	4489.3	4456.0	4449.0	4456.0	4489.3	4529.6
20°	4768.4	4761.4	4733.2	4677.7	4595.1	4534.7	4482.2	4474.2	4482.2	4534.7	4595.1
22.5°	4975.0	4970.0	4879.3	4783.6	4682.8	4595.1	4526.6	4514.5	4526.6	4595.1	4682.8
25°	5144.3	5117.1	5008.3	4867.2	4749.3	4657.6	4597.1	4572.9	4597.1	4657.6	4749.3
27.5°	5189.7	5116.1	4972.0	4858.1	4796.7	4731.2	4684.8	4660.6	4684.8	4731.2	4796.7
30°	5085.9	4982.1	4922.6	4867.2	4859.1	4837.0	4816.8	4831.9	4816.8	4837.0	4859.1
32.5°	4957.9	4904.5	4903.5	4958.9	5011.3	5058.7	5069.7	5055.6	5069.7	5058.7	5011.3
35°	4855.1	4839.0	4942.8	5140.3	5286.4	5400.3	5446.6	5451.7	5446.6	5400.3	5286.4
37.5°	4816.8	4877.3	5075.8	5350.9	5614.9	5771.1	5839.6	5879.9	5839.6	5771.1	5614.9
40°	4922.6	5037.5	5322.7	5614.9	5832.6	6006.9	6177.2	6259.8	6177.2	6006.9	5832.6
42.5°	5257.2	5424.4	5668.3	5885.0	5972.6	6106.7	6293.1	6403.9	6293.1	6106.7	5972.6
45°	5748.9	5952.5	6066.4	6083.5	6048.2	6051.2	6141.9	6242.7	6141.9	6051.2	6048.2
47.5°	6315.3	6373.7	6437.2	6252.8	6133.9	6025.0	6055.3	6076.4	6055.3	6025.0	6133.9
50°	6849.3	6900.7	6776.8	6637.7	6494.6	6338.4	6343.5	6333.4	6343.5	6338.4	6494.6
52.5°	7341.1	7502.3	7537.6	7423.7	7217.1	7104.3	7114.4	7193.0	7114.4	7104.3	7217.1
55°	8178.5	8489.9	8335.7	8563.4	8627.9	8697.5	8555.4	8401.2	8555.4	8697.5	8627.9
57.5°	9408.9	9439.1	9671.9	9854.3	9774.7	9516.7	9321.2	9220.5	9321.2	9516.7	9774.7
60°	10344.0	10456.9	10066.9	9618.5	9199.3	8752.9	8612.8	8545.3	8612.8	8752.9	9199.3
62.5°	9720.3	9684.0	8915.1	8409.3	8068.7	7654.5	7573.9	7467.1	7573.9	7654.5	8068.7
65°	7631.3	7766.3	7257.5	6713.3	6262.9	6096.6	6101.6	6187.3	6101.6	6096.6	6262.9
67.5°	5428.5	5627.0	5058.7	4622.3	4030.8	3864.5	3748.6	3864.5	3748.6	3864.5	4030.8
70°	3357.7	3085.6	2640.2	2147.4	1831.0	1828.0	1850.1	1798.7	1850.1	1828.0	1831.0
72.5°	1269.7	1213.3	1067.2	987.5	887.8	923.1	995.6	1015.8	995.6	923.1	887.8
75°	524.0	507.9	451.4	430.3	402.1	395.0	457.5	493.8	457.5	395.0	402.1
77.5°	135.0	128.0	122.9	116.9	115.9	118.9	121.9	120.9	121.9	118.9	115.9
80°	72.6	76.6	70.5	65.5	69.5	70.5	70.5	68.5	70.5	70.5	69.5
82.5°	37.3	40.3	37.3	35.3	35.3	37.3	37.3	37.3	37.3	37.3	35.3
85°	17.1	18.1	19.1	17.1	17.1	18.1	18.1	19.1	18.1	18.1	17.1
87.5°	6.0	7.1	8.1	8.1	9.1	10.1	9.1	9.1	9.1	10.1	9.1
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7
2.5°	4536.7	4539.7	4532.6	4530.6	4534.7	4529.6	4526.6	4524.6	4525.6	4529.6	4526.6
5°	4534.7	4533.6	4527.6	4527.6	4520.5	4509.5	4509.5	4501.4	4496.4	4491.3	4481.2
7.5°	4507.4	4500.4	4494.3	4494.3	4484.3	4471.2	4464.1	4453.0	4435.9	4418.8	4424.8
10°	4484.3	4485.3	4490.3	4501.4	4489.3	4484.3	4462.1	4446.0	4418.8	4400.6	4388.5
12.5°	4496.4	4516.5	4529.6	4539.7	4533.6	4516.5	4495.3	4471.2	4451.0	4428.8	4405.7
15°	4504.4	4543.7	4558.8	4569.9	4564.9	4564.9	4539.7	4528.6	4506.4	4486.3	4451.0
17.5°	4564.9	4595.1	4637.4	4633.4	4645.5	4635.4	4625.3	4606.2	4590.1	4569.9	4564.9
20°	4677.7	4733.2	4761.4	4768.4	4752.3	4736.2	4722.1	4706.0	4680.8	4665.7	4653.6
22.5°	4783.6	4879.3	4970.0	4975.0	4932.7	4897.4	4852.1	4813.8	4793.6	4762.4	4733.2
25°	4867.2	5008.3	5117.1	5144.3	5089.9	5023.4	4976.0	4985.1	4972.0	4929.7	4877.3
27.5°	4858.1	4972.0	5116.1	5189.7	5166.5	5116.1	5095.9	5121.1	5151.4	5083.8	4954.9
30°	4867.2	4922.6	4982.1	5085.9	5099.0	5098.0	5109.0	5154.4	5184.6	5119.1	5003.2
32.5°	4958.9	4903.5	4904.5	4957.9	4997.2	5028.4	5005.2	5022.4	5038.5	5099.0	5139.3
35°	5140.3	4942.8	4839.0	4855.1	4905.5	4917.6	4904.5	4887.3	4954.9	5145.3	5396.2
37.5°	5350.9	5075.8	4877.3	4816.8	4839.0	4884.3	4862.2	4892.4	5078.8	5355.9	5683.4
40°	5614.9	5322.7	5037.5	4922.6	4896.4	4949.8	4954.9	5028.4	5262.2	5574.6	5940.4
42.5°	5885.0	5668.3	5424.4	5257.2	5151.4	5184.6	5224.9	5374.1	5597.8	5854.7	6093.6
45°	6083.5	6066.4	5952.5	5748.9	5648.2	5537.3	5708.6	5784.2	6018.0	6157.0	6187.3
47.5°	6252.8	6437.2	6373.7	6315.3	6149.0	6111.7	6244.7	6340.4	6414.0	6414.0	6306.2
50°	6637.7	6776.8	6900.7	6849.3	6731.4	6716.3	6830.2	6912.8	6897.7	6882.6	6761.7
52.5°	7423.7	7537.6	7502.3	7341.1	7121.4	7047.9	7333.0	7428.8	7555.7	7685.7	7925.6
55°	8563.4	8335.7	8489.9	8178.5	7431.8	7358.2	7937.7	8508.0	8942.3	9303.1	9492.5
57.5°	9854.3	9671.9	9439.1	9408.9	8404.2	8028.3	9377.7	9864.4	9895.6	9791.8	9648.7
60°	9618.5	10066.9	10456.9	10344.0	9192.2	8744.8	10038.7	10057.9	9564.1	9056.2	8530.2
62.5°	8409.3	8915.1	9684.0	9720.3	8338.7	7452.9	8545.3	8809.3	8216.8	7508.4	7282.6
65°	6713.3	7257.5	7766.3	7631.3	6253.8	5143.3	6257.8	6776.8	6456.3	6069.4	5831.6
67.5°	4622.3	5058.7	5627.0	5428.5	4377.4	3675.1	4409.7	4985.1	4765.4	4498.4	4234.4
70°	2147.4	2640.2	3085.6	3357.7	2843.7	2599.9	2702.7	2959.6	2886.1	2454.8	2077.9
72.5°	987.5	1067.2	1213.3	1269.7	1186.1	983.5	1188.1	1202.2	1172.0	1028.9	900.9
75°	430.3	451.4	507.9	524.0	417.2	407.1	429.3	522.0	505.9	435.3	378.9
77.5°	116.9	122.9	128.0	135.0	153.2	145.1	143.1	127.0	114.9	102.8	101.8
80°	65.5	70.5	76.6	72.6	77.6	78.6	70.5	67.5	64.5	62.5	58.4
82.5°	35.3	37.3	40.3	37.3	37.3	37.3	34.3	33.3	34.3	33.3	32.2
85°	17.1	19.1	18.1	17.1	17.1	17.1	16.1	15.1	16.1	18.1	18.1
87.5°	8.1	8.1	7.1	6.0	5.0	6.0	5.0	5.0	6.0	6.0	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):**

	165°	170°	175°	180°
0°	4535.7	4535.7	4535.7	4535.7
2.5°	4524.6	4524.6	4524.6	4529.6
5°	4474.2	4476.2	4474.2	4474.2
7.5°	4415.7	4408.7	4410.7	4408.7
10°	4371.4	4370.4	4375.4	4378.5
12.5°	4389.5	4386.5	4375.4	4374.4
15°	4446.0	4435.9	4432.9	4428.8
17.5°	4544.7	4521.5	4494.3	4479.2
20°	4622.3	4597.1	4557.8	4534.7
22.5°	4702.9	4637.4	4595.1	4580.0
25°	4766.4	4690.8	4627.4	4595.1
27.5°	4831.9	4738.2	4670.7	4630.4
30°	4904.5	4822.9	4779.5	4756.3
32.5°	5163.5	5104.0	5048.6	5020.4
35°	5529.2	5592.7	5519.2	5471.8
37.5°	5970.6	6116.7	6077.4	6026.0
40°	6207.4	6317.3	6274.9	6257.8
42.5°	6233.6	6197.4	6149.0	6096.6
45°	6120.8	5994.8	5885.0	5848.7
47.5°	6131.9	5992.8	5844.7	5829.5
50°	6617.6	6474.5	6264.9	6278.0
52.5°	7954.8	7724.0	7535.6	7431.8
55°	9346.4	9109.6	8838.5	8782.1
57.5°	9398.8	8993.7	8653.1	8700.5
60°	8191.6	7885.3	7728.1	7770.4
62.5°	7079.1	6890.7	6822.1	6804.0
65°	5708.6	5665.3	5544.4	5499.0
67.5°	3927.0	3883.7	3685.2	3557.2
70°	1845.1	1750.4	1652.6	1567.0
72.5°	863.6	864.6	887.8	868.6
75°	376.9	384.9	388.0	364.8
77.5°	102.8	104.8	101.8	100.8
80°	57.4	61.5	60.5	60.5
82.5°	32.2	33.3	34.3	35.3
85°	18.1	17.1	18.1	18.1
87.5°	9.1	9.1	9.1	10.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)