

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_400MP

Luminaire Tested: **TRU40PXX3F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768357_400MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TRU40PXX3F
Description: ARCHITECTURAL AREA LUMINAIRE - TYPE III
Light Source: 400 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 40000 (1 lamp)
Luminaire Lumens: 27733.2 lumens
Efficiency: 69.3%
Efficacy: 61.4 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

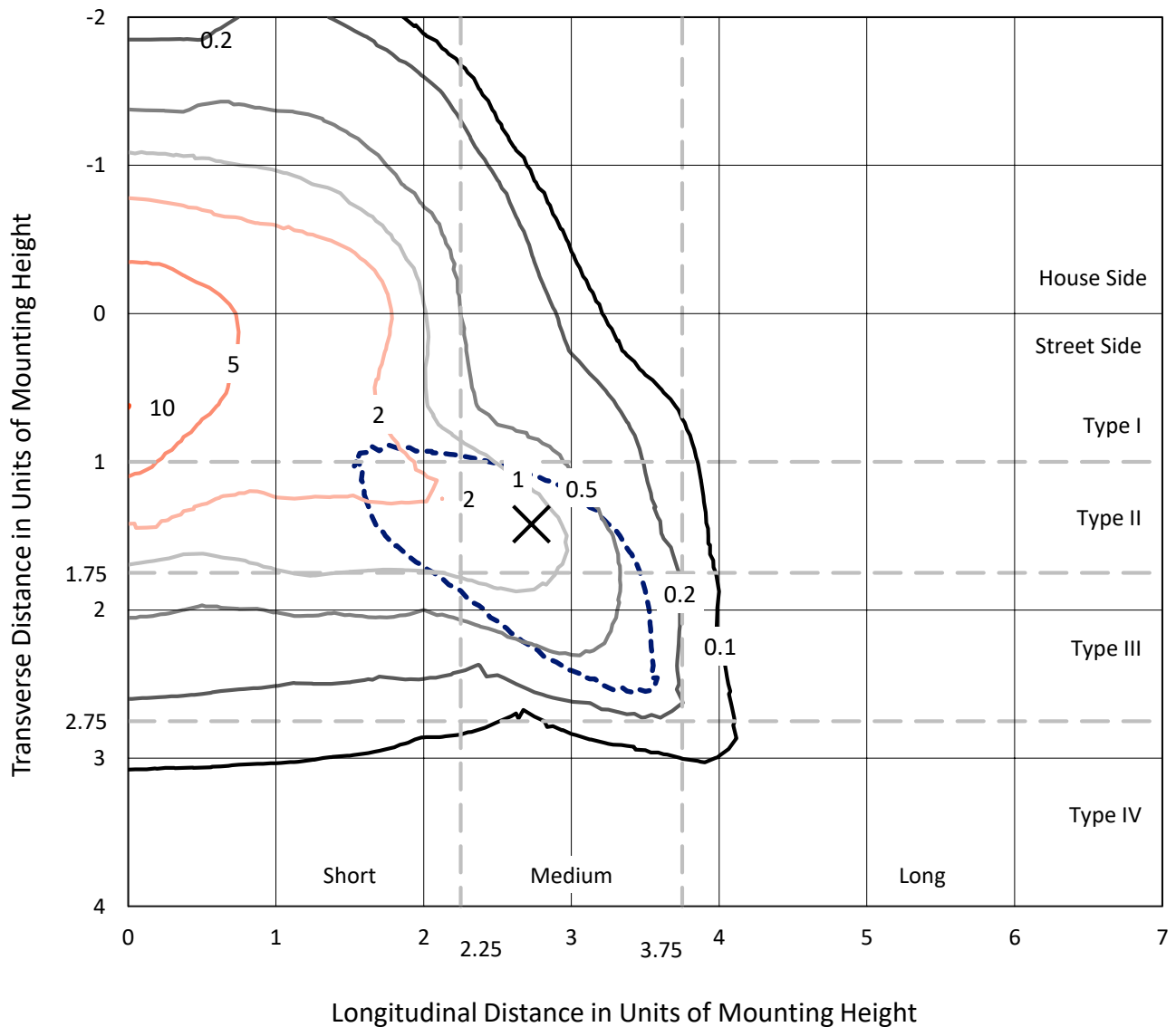
Input Watts (W): 452
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

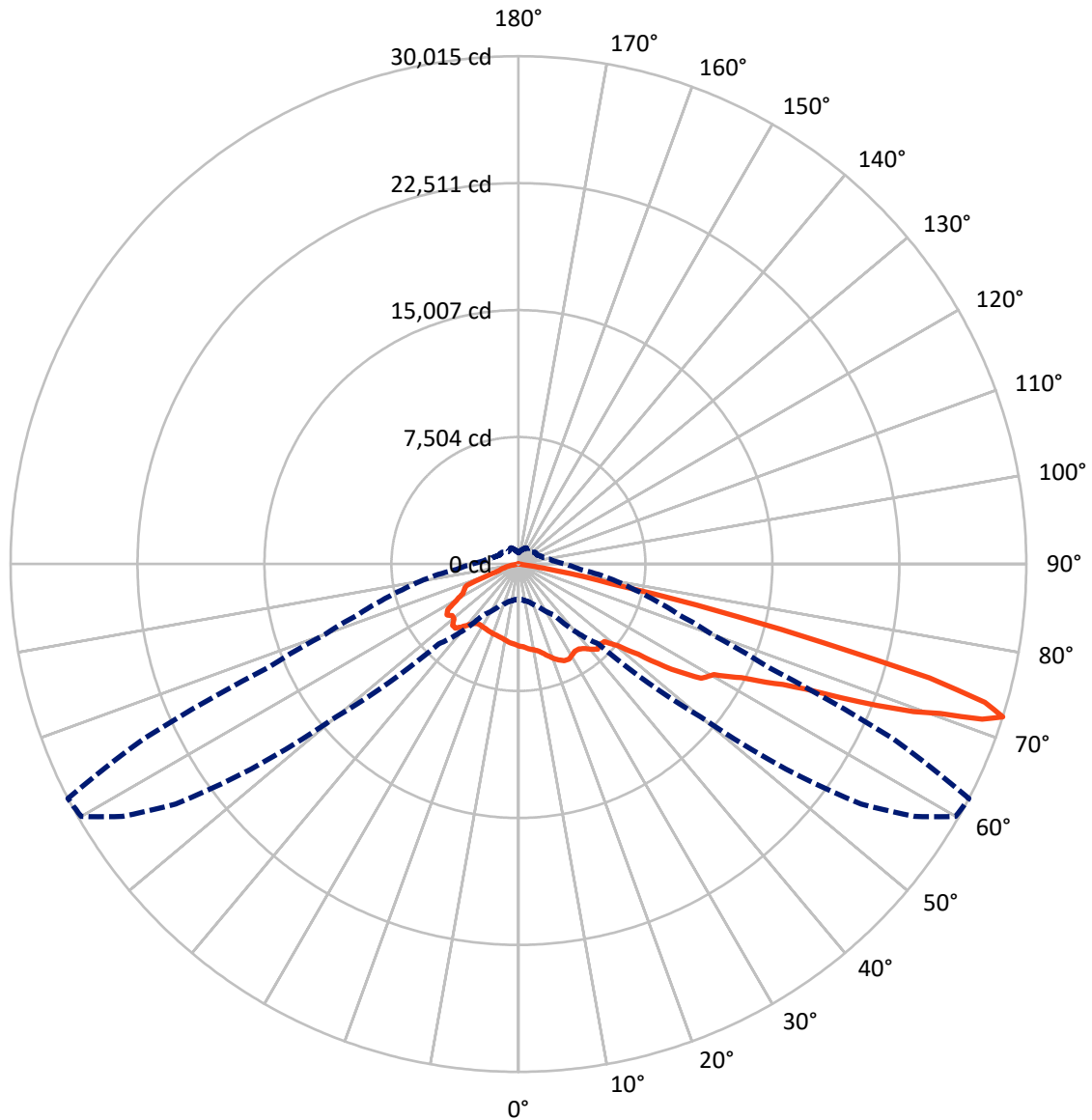
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical



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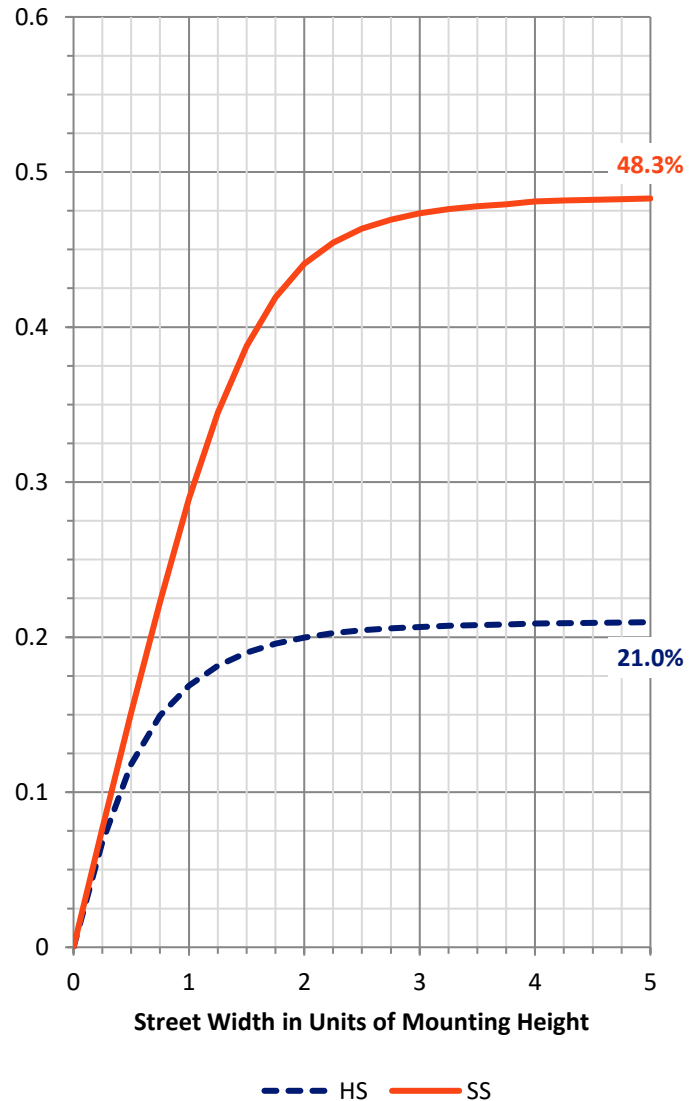
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8429.0	0.0	8429.0
	% Lamp	21.1	0.0	21.1
Street Side	Lumens	19304.2	0.0	19304.2
	% Lamp	48.3	0.0	48.3
Total	Lumens	27733.2	0.0	27733.2
	% Lamp	69.3	0.0	69.3

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	462.3	1.7	1.2
10°-20°	1418.9	5.1	3.5
20°-30°	2494.7	9.0	6.2
30°-40°	3512.0	12.7	8.8
40°-50°	4563.9	16.5	11.4
50°-60°	5892.6	21.2	14.7
60°-70°	5764.6	20.8	14.4
70°-80°	3492.2	12.6	8.7
80°-90°	132.1	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°	27733.2	100.0	69.3
0°-180°	27733.2	100.0	69.3

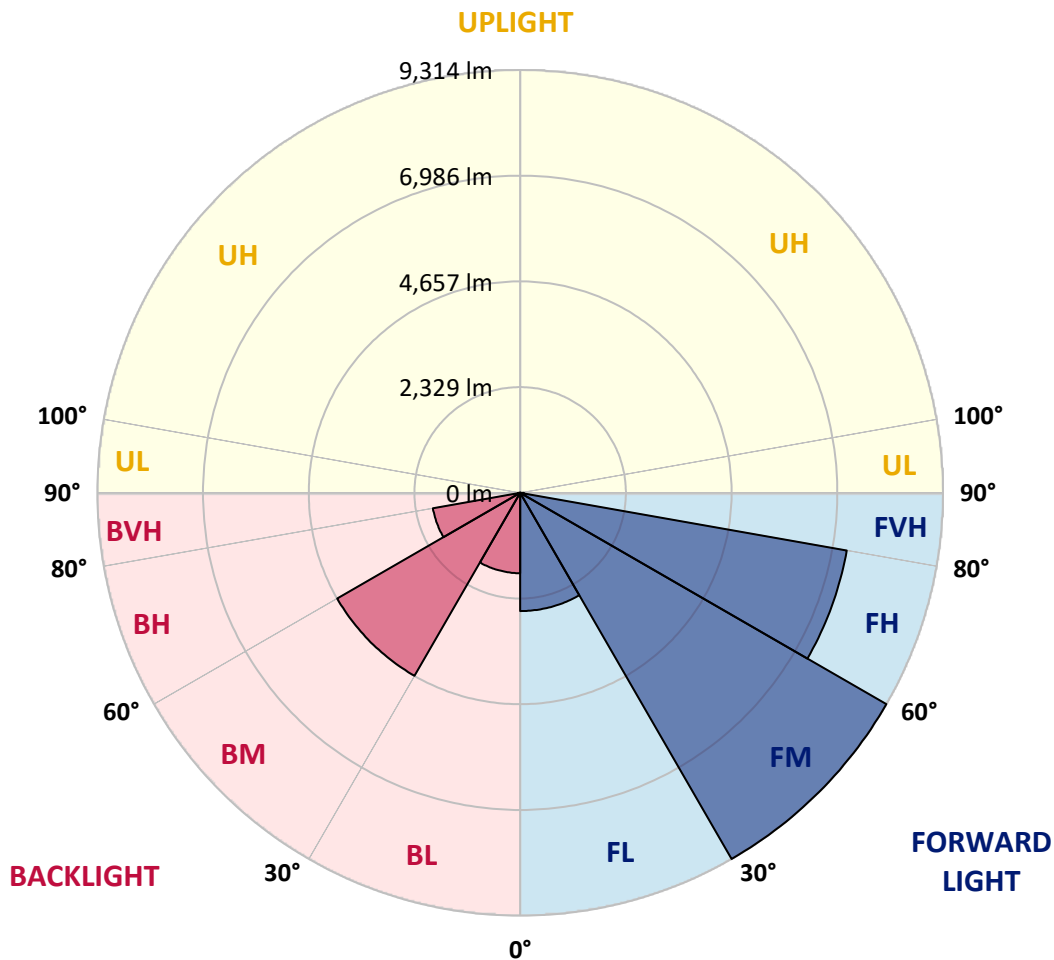


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2604.9	6.5			
FM (30°-60°)	9314.3	23.3			
FH (60°-80°)	7305.0	18.3			G3/7500
FVH (80°-90°)	80.0	0.2			G1/100
BL (0°-30°)	1771.0	4.4	B3/2500		
BM (30°-60°)	4654.2	11.6	B3/5000		
BH (60°-80°)	1951.7	4.9	B3/2500		G3/2500
BVH (80°-90°)	52.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	12266.8	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°	4848.6	4848.6	4848.6	4848.6	4848.6	4848.6	4848.6	4848.6	4848.6	4848.6	4848.6
2.5°	5029.3	5004.9	5004.9	4997.5	4968.2	4939.0	4931.6	4907.2	4907.2	4895.0	4895.0
5°	5200.2	5163.6	5163.6	5126.9	5087.9	5041.5	5017.1	5014.6	4992.7	5004.9	4980.5
7.5°	5346.7	5322.3	5322.3	5249.0	5188.0	5151.4	5139.1	5126.9	5126.9	5126.9	5105.0
10°	5566.4	5585.9	5493.2	5485.8	5419.9	5341.8	5305.2	5273.4	5249.0	5224.6	5190.4
12.5°	5908.2	5908.2	5786.1	5712.9	5615.2	5480.9	5395.5	5371.1	5322.3	5310.0	5285.6
15°	6176.7	6140.1	6030.3	5957.0	5847.2	5676.3	5712.9	5664.0	5627.4	5590.8	5542.0
17.5°	6347.6	6335.4	6274.4	6237.8	6164.5	6164.5	6032.7	5981.4	5910.6	5837.4	5773.9
20°	6555.2	6567.4	6604.0	6518.5	6494.1	6347.6	6298.8	6237.8	6164.5	6091.3	6030.3
22.5°	6738.3	6774.9	6860.3	6792.0	6750.5	6567.4	6457.5	6420.9	6359.8	6286.6	6225.6
25°	7080.1	7287.6	7265.6	7197.2	7067.9	6823.7	6677.2	6604.0	6579.6	6508.8	6445.3
27.5°	8129.9	8251.9	7836.9	7605.0	7373.0	6994.6	6811.5	6713.8	6662.6	6604.0	6481.9
30°	9448.2	9240.7	8508.3	7910.1	7436.5	6977.5	6799.3	6677.2	6591.8	6481.9	6372.1
32.5°	10546.8	10192.8	8686.5	7849.1	7141.1	6872.5	6689.4	6606.4	6506.3	6359.8	6232.9
35°	11425.8	10949.7	8752.4	7626.9	6994.6	6835.9	6701.6	6628.4	6501.4	6330.6	6213.4
37.5°	11474.6	11071.7	8911.1	7612.3	7055.6	6945.8	6818.8	6701.6	6567.4	6433.1	6384.3
40°	11401.3	10900.9	8850.1	7626.9	7177.7	7116.7	7033.7	6970.2	6872.5	6738.3	6655.3
42.5°	11140.1	10627.4	8557.1	7617.2	7373.0	7385.2	7385.2	7348.6	7253.4	7084.9	6965.3
45°	10766.6	10253.9	8386.2	7849.1	7690.4	7702.6	7727.0	7605.0	7446.3	7177.7	6943.3
47.5°	10351.5	9790.0	8203.1	8093.2	7902.8	7788.1	7922.3	7897.9	7739.2	7482.9	7128.9
50°	9594.7	9162.6	7812.5	7556.1	7526.8	7993.1	8703.6	8801.2	8679.2	8398.4	7995.6
52.5°	8105.4	11938.4	6823.7	6582.0	7128.9	8930.6	9973.1	10449.2	10742.2	10375.9	9619.1
55°	6127.9	6115.7	5859.4	5847.2	6848.1	9948.7	11999.5	12707.5	12976.0	12663.5	11572.2
57.5°	5102.5	5017.1	4992.7	5590.8	6640.6	10815.4	13203.1	14160.1	14648.4	14563.0	13798.8
60°	4636.2	4426.3	4333.5	5859.4	7360.8	10073.2	12441.4	13415.5	14294.4	14675.3	14331.0
62.5°	4077.1	3947.7	3845.2	5505.4	8837.9	10561.5	12363.2	13732.9	14636.2	15109.8	15515.1
65°	3442.4	3479.0	3371.6	4523.9	8557.1	12036.1	14658.2	16113.2	17390.1	18256.8	18127.4
66°	3222.6	3259.3	3247.1	4187.0	7568.3	12097.1	15185.5	17077.6	18505.8	19628.9	19763.1
67°	3010.2	3039.5	3137.2	3808.6	6555.2	11755.3	15502.9	17834.4	19565.4	21179.1	21874.9
68°	2829.6	2849.1	2954.1	3542.5	5688.5	11328.1	15527.3	18261.7	20642.0	22509.7	23962.3
69°	2702.6	2673.3	2795.4	3271.5	5029.3	10363.7	15271.0	18505.8	21862.7	24304.1	25402.8
70°	2465.8	2465.8	2612.3	3100.6	4492.2	9130.8	14812.0	18847.6	22924.7	25622.5	26940.8
71°	2326.7	2316.9	2443.8	2954.1	4043.0	7812.5	14362.8	19262.6	23803.6	26831.0	28588.8
72°	2114.3	2104.5	2297.4	2763.7	3691.4	6677.2	14062.5	19921.8	24719.2	27744.1	29833.9
73°	1870.1	1894.5	2128.9	2575.7	3332.5	5698.2	13842.7	20500.4	25219.7	27856.4	29406.7
74°	1726.1	1726.1	1928.7	2417.0	2966.3	4785.1	13288.5	20642.0	24843.7	26770.0	25981.4
75°	1496.6	1494.1	1738.3	2248.5	2695.3	3869.6	12258.3	19750.9	23205.5	23818.3	21777.3
77.5°	881.3	869.1	1035.2	1445.3	1748.0	1784.7	6440.4	12231.4	13696.3	9787.6	7543.9
80°	153.8	166.0	275.9	319.8	473.6	422.4	1516.1	3259.3	3073.7	2346.2	1733.4
82.5°	61.0	61.0	65.9	68.4	100.1	134.3	227.1	327.1	388.2	329.6	261.2
85°	34.2	29.3	29.3	31.7	41.5	46.4	51.3	51.3	56.2	63.5	61.0
87.5°	19.5	17.1	12.2	7.3	7.3	7.3	7.3	9.8	9.8	9.8	9.8
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):

	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°	85°	90°	95°
0°	4848.6	4848.6	4848.6	4848.6	4848.6	4848.6	4848.6	4848.6	4848.6	4848.6	4848.6
2.5°	4887.7	4880.4	4882.8	4870.6	4870.6	4858.4	4875.5	4870.6	4821.8	4809.6	4809.6
5°	4980.5	4968.2	4965.8	4953.6	4943.8	4917.0	4919.4	4895.0	4870.6	4846.2	4821.8
7.5°	5090.3	5068.3	5053.7	5041.5	5017.1	4995.1	4980.5	4943.8	4907.2	4858.4	4821.8
10°	5158.7	5126.9	5102.5	5078.1	5041.5	5004.9	4968.2	4931.6	4870.6	4809.6	4772.9
12.5°	5273.4	5273.4	5246.6	5212.4	5190.4	5151.4	5102.5	5053.7	4956.0	4858.4	4772.9
15°	5480.9	5444.3	5390.6	5346.7	5297.8	5236.8	5190.4	5126.9	5017.1	4870.6	4760.7
17.5°	5712.9	5651.8	5554.2	5459.0	6789.5	5322.3	5273.4	5212.4	5090.3	4943.8	4821.8
20°	5957.0	5871.6	5786.1	5700.7	5615.2	5542.0	5463.9	5407.7	5244.1	5078.1	4921.9
22.5°	6164.5	6103.5	6018.1	5932.6	5834.9	5737.3	5664.0	5566.4	5407.7	5212.4	5041.5
25°	6328.1	6235.3	6142.6	6066.9	5961.9	5883.8	5786.1	5712.9	5578.6	5400.4	5197.7
27.5°	6372.1	6237.8	6152.3	6054.7	5981.4	5908.2	5847.2	5786.1	5664.0	5571.3	5371.1
30°	6237.8	6127.9	6054.7	6005.8	5957.0	5896.0	5859.4	5842.3	5773.9	5664.0	5468.7
32.5°	6140.1	6079.1	6008.3	6005.8	5957.0	5908.2	5878.9	5859.4	5798.3	5695.8	5517.6
35°	6164.5	6115.7	6103.5	6052.2	6049.8	6035.1	6010.7	5981.4	5920.4	5800.8	5590.8
37.5°	6335.4	6347.6	6342.8	6298.8	6286.6	6237.8	6237.8	6203.6	6176.7	6018.1	5751.9
40°	6630.8	6665.0	6652.8	6628.4	6579.6	6543.0	6486.8	6481.9	6435.5	6340.3	6054.7
42.5°	6872.5	6799.3	6750.5	6701.6	6682.1	6677.2	6640.6	6640.6	6640.6	6696.8	6508.8
45°	6772.4	6677.2	6616.2	6577.1	8349.6	6713.8	6811.5	6884.7	7006.8	7165.5	7043.4
47.5°	6835.9	6713.8	6762.7	6860.3	7055.6	7270.5	7434.1	7482.9	7653.8	7751.4	7690.4
50°	7580.5	7446.3	7470.7	7690.4	8044.4	8166.5	8227.5	8349.6	8593.7	8667.0	8471.7
52.5°	8864.7	8471.7	8608.4	8911.1	9060.0	9326.1	9309.1	9348.1	9597.1	9619.1	9167.5
55°	10976.5	10327.1	10314.9	10297.8	10217.3	10224.6	10229.5	10302.7	11218.2	11621.1	11218.2
57.5°	12744.1	11645.5	11084.0	10961.9	10974.1	11010.7	11186.5	11523.4	13281.2	14050.3	12500.0
60°	13269.0	12158.2	11355.0	10725.1	10129.4	10107.4	10241.7	10437.0	11010.7	11455.0	10791.0
62.5°	14794.9	13342.3	11596.6	10305.1	9514.1	9057.6	8679.2	8410.6	8886.7	8435.0	7692.9
65°	17167.9	14392.1	11633.3	9338.4	7946.8	7263.2	6787.1	6506.3	6066.9	5371.1	4870.6
66°	18518.0	15295.4	12048.3	9279.8	7602.5	6677.2	6010.7	5651.8	5041.5	4650.9	4492.2
67°	20629.8	16809.0	12890.6	9545.9	7312.0	6005.8	5466.3	4992.7	4406.7	4492.2	4455.6
68°	22790.5	18483.8	13920.9	9990.2	7077.6	5664.0	5041.5	4821.8	4333.5	4570.3	4531.2
69°	24926.7	20678.7	15021.9	10510.2	7324.2	5700.7	5273.4	5114.7	4370.1	4675.3	4382.3
70°	26452.6	22143.5	15810.5	11376.9	8178.7	6372.1	5847.2	5524.9	4436.0	4316.4	3564.4
71°	28901.3	23762.1	16186.5	12060.5	9284.6	7543.9	6640.6	5971.7	4260.2	3552.2	2563.5
72°	30014.6	24409.1	16040.0	12194.8	9917.0	8422.8	7043.4	5883.8	3681.6	2710.0	2067.9
73°	28762.1	22875.9	14685.0	11225.6	9360.3	7897.9	6689.4	5456.5	2990.7	2194.8	1801.8
74°	25219.7	19787.5	12792.9	9985.3	8232.4	7043.4	5839.8	4526.4	2424.3	1857.9	1538.1
75°	18603.5	14733.8	9960.9	7775.9	6516.1	5593.2	4682.6	3894.0	2019.0	1584.5	1398.9
77.5°	5603.0	4711.9	3232.4	2941.9	2658.7	2358.4	2121.6	1982.4	1301.3	1320.8	1276.9
80°	1457.5	957.0	744.6	722.7	769.0	683.6	810.5	700.7	590.8	710.4	805.7
82.5°	210.0	197.8	166.0	148.9	170.9	183.1	207.5	222.2	185.5	214.8	241.7
85°	58.6	51.3	51.3	48.8	51.3	46.4	39.1	41.5	34.2	34.2	34.2
87.5°	9.8	9.8	7.3	7.3	4.9	4.9	4.9	4.9	2.4	2.4	4.9
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):

	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4848.6	4848.6	4848.6	4848.6	4848.6	4848.6	4848.6	4848.6	4848.6
2.5°	4785.1	4760.7	4748.5	4736.3	4711.9	4711.9	4699.7	4687.5	4689.9
5°	4760.7	4724.1	4675.3	4602.0	4565.4	4516.6	4492.2	4492.2	4492.2
7.5°	4736.3	4663.1	4589.8	4516.6	4467.8	4399.4	4340.8	4272.4	4272.4
10°	4665.5	4589.8	4516.6	4455.6	4375.0	4284.7	4169.9	4089.3	4052.7
12.5°	4626.5	4516.6	4438.5	4357.9	4260.2	4126.0	4016.1	3942.9	3930.7
15°	4599.6	4467.8	4357.9	4284.7	4174.8	4011.2	3906.2	3847.6	3833.0
17.5°	4614.2	4443.3	4296.9	4160.1	4052.7	3918.4	3806.1	3772.0	3735.3
20°	4663.1	4443.3	4211.4	4069.8	3967.3	3833.0	3735.3	3686.5	3686.5
22.5°	4736.3	4418.9	4150.4	4003.9	3894.0	3757.3	3625.5	3598.6	3588.9
25°	4809.6	4394.5	4113.8	3955.1	3833.0	3662.1	3515.6	3479.0	3491.2
27.5°	4895.0	4357.9	4064.9	3906.2	3735.3	3496.1	3344.7	3322.7	3344.7
30°	4956.0	4357.9	4028.3	3815.9	3637.7	3356.9	3149.4	3149.4	3156.7
32.5°	4992.7	4345.7	3945.3	3710.9	3493.6	3112.8	2946.8	2929.7	2929.7
35°	5053.7	4382.3	3906.2	3588.9	3259.3	2897.9	2795.4	2734.4	2734.4
37.5°	5224.6	4528.8	4040.5	3418.0	2973.6	2722.2	2600.1	2514.6	2539.1
40°	5578.6	4858.4	4064.9	3247.1	2817.4	2575.7	2443.8	2387.7	2431.6
42.5°	6005.8	5310.0	4064.9	3100.6	2710.0	2446.3	2336.4	2238.8	2294.9
45°	6726.1	5761.7	3967.3	3064.0	2612.3	2358.4	2253.4	2121.6	2231.4
47.5°	7316.9	5825.2	3784.2	3051.7	2534.2	2233.9	2121.6	1972.7	1958.0
50°	7360.8	5432.1	3662.1	3051.7	2465.8	2209.5	1914.1	1853.0	1765.1
52.5°	7690.4	5371.1	3725.6	3051.7	2458.5	2297.4	1716.3	1650.4	1630.9
55°	8061.5	5651.8	3796.4	3051.7	2419.4	2294.9	1569.8	1462.4	1477.0
57.5°	8251.9	5395.5	3759.8	3002.9	2346.2	2009.3	1450.2	1347.7	1342.8
60°	7334.0	4504.4	3562.0	2966.3	2294.9	1850.6	1342.8	1247.6	1235.3
62.5°	5371.1	3828.1	3369.1	2893.1	2360.8	1948.2	1240.2	1118.2	1110.8
65°	4345.7	3613.3	3320.3	2771.0	2546.4	2065.4	1137.7	1042.5	1052.2
66°	4370.1	3564.4	3283.7	2697.7	2475.6	2094.7	1130.4	1018.1	1049.8
67°	4309.1	3479.0	3210.4	2612.3	2341.3	2185.1	1123.0	991.2	1013.2
68°	4143.1	3344.7	3125.0	2497.6	2155.8	2231.4	1084.0	937.5	959.5
69°	3625.5	2734.4	2661.1	2048.3	1889.6	2102.0	1047.4	859.4	900.9
70°	2612.3	1926.3	1892.1	1501.5	1438.0	1782.2	974.1	791.0	791.0
71°	1875.0	1406.2	1391.6	1096.2	1120.6	1335.4	905.8	752.0	715.3
72°	1513.7	1232.9	1198.7	976.6	947.3	1054.7	881.3	712.9	666.5
73°	1269.5	1110.8	1084.0	871.6	830.1	803.2	876.5	659.2	607.9
74°	1088.9	1049.8	969.2	808.1	722.7	649.4	859.4	612.8	539.5
75°	998.5	971.7	830.1	712.9	625.0	564.0	813.0	554.2	488.3
77.5°	908.2	690.9	544.4	495.6	368.7	297.9	556.6	468.7	380.9
80°	822.8	368.7	266.1	253.9	190.4	139.2	314.9	376.0	285.6
82.5°	283.2	122.1	105.0	114.7	92.8	68.4	97.7	151.4	122.1
85°	48.8	41.5	36.6	43.9	41.5	34.2	34.2	31.7	29.3
87.5°	7.3	12.2	12.2	9.8	12.2	12.2	14.6	12.2	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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