

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: 768358_320MP

Luminaire Tested: **TRU32PXX4F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768358_320MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TRU32PXX4F
Description: ARCHITECTURAL AREA LUMINAIRE - TYPE IV
Light Source: 320 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 30000 (1 lamp)
Luminaire Lumens: 21557.7 lumens
Efficiency: 71.9%
Efficacy: 61.6 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

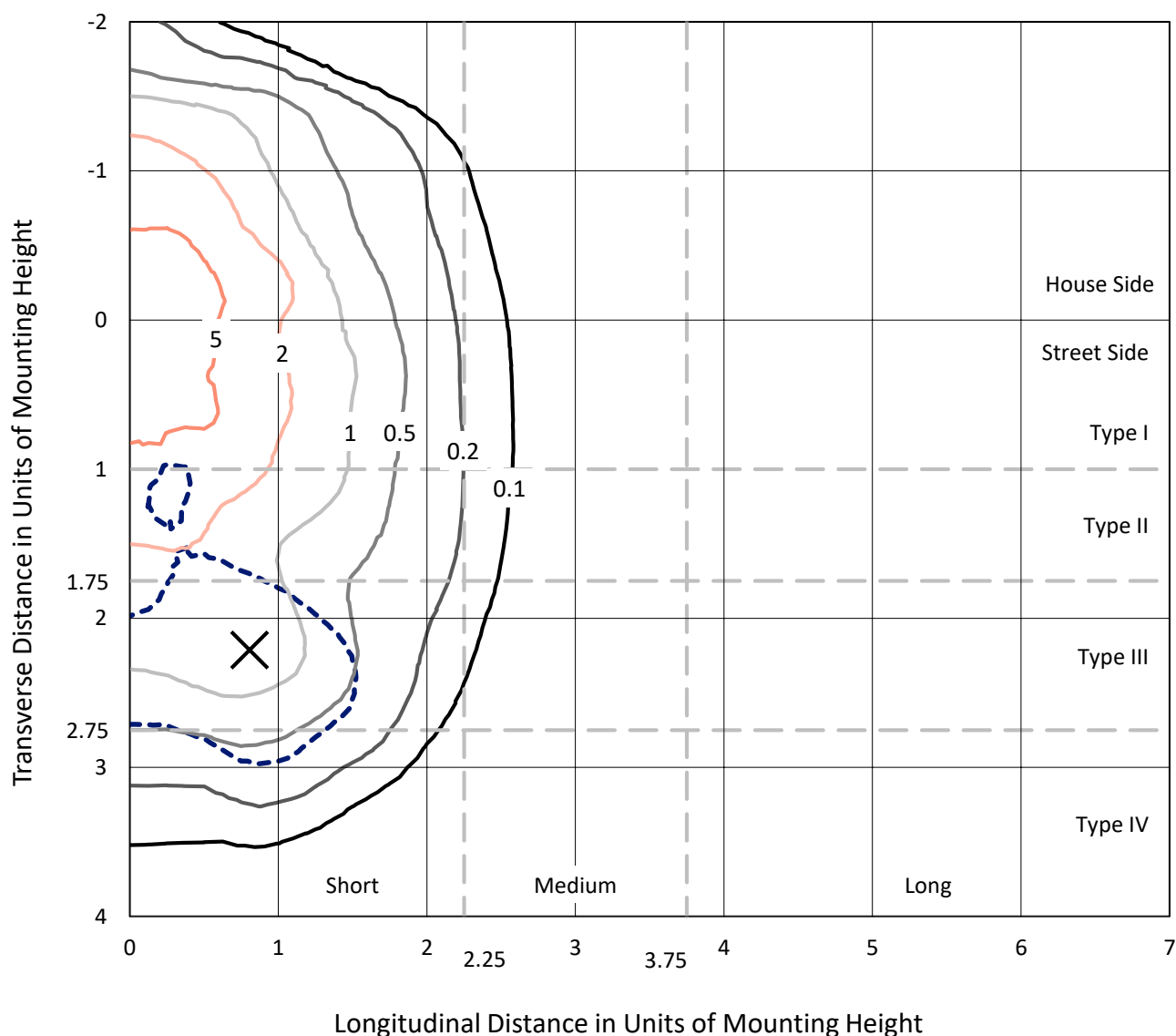
Input Watts (W): 350
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

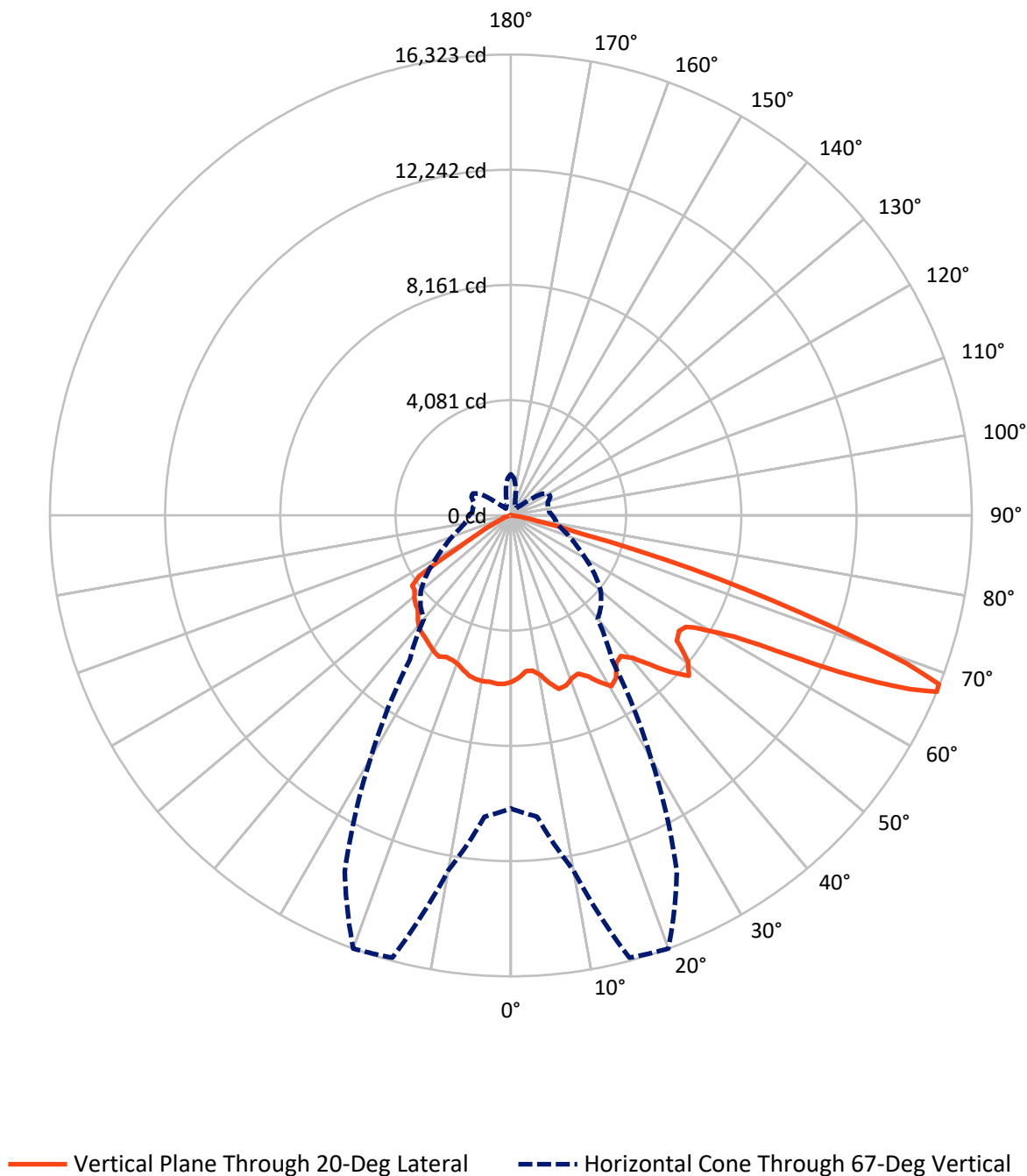
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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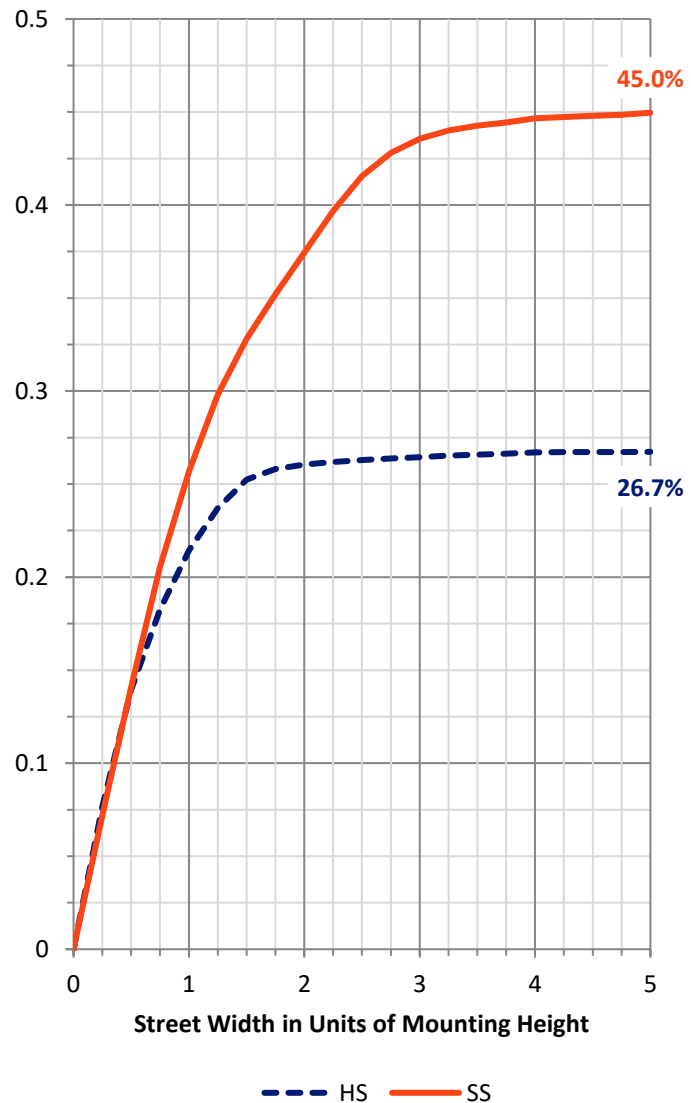
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8051.9	0.0	8051.9
	% Lamp	26.8	0.0	26.8
Street Side	Lumens	13505.8	0.0	13505.8
	% Lamp	45.0	0.0	45.0
Total	Lumens	21557.7	0.0	21557.7
	% Lamp	71.9	0.0	71.9

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	552.3	2.6	1.8
10°-20°	1678.9	7.8	5.6
20°-30°	2732.9	12.7	9.1
30°-40°	3445.2	16.0	11.5
40°-50°	3983.0	18.5	13.3
50°-60°	4033.8	18.7	13.4
60°-70°	3758.3	17.4	12.5
70°-80°	1306.2	6.1	4.4
80°-90°	67.2	0.3	0.2
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°	21557.7	100.0	71.9
0°-180°	21557.7	100.0	71.9

Coefficient of Utilization

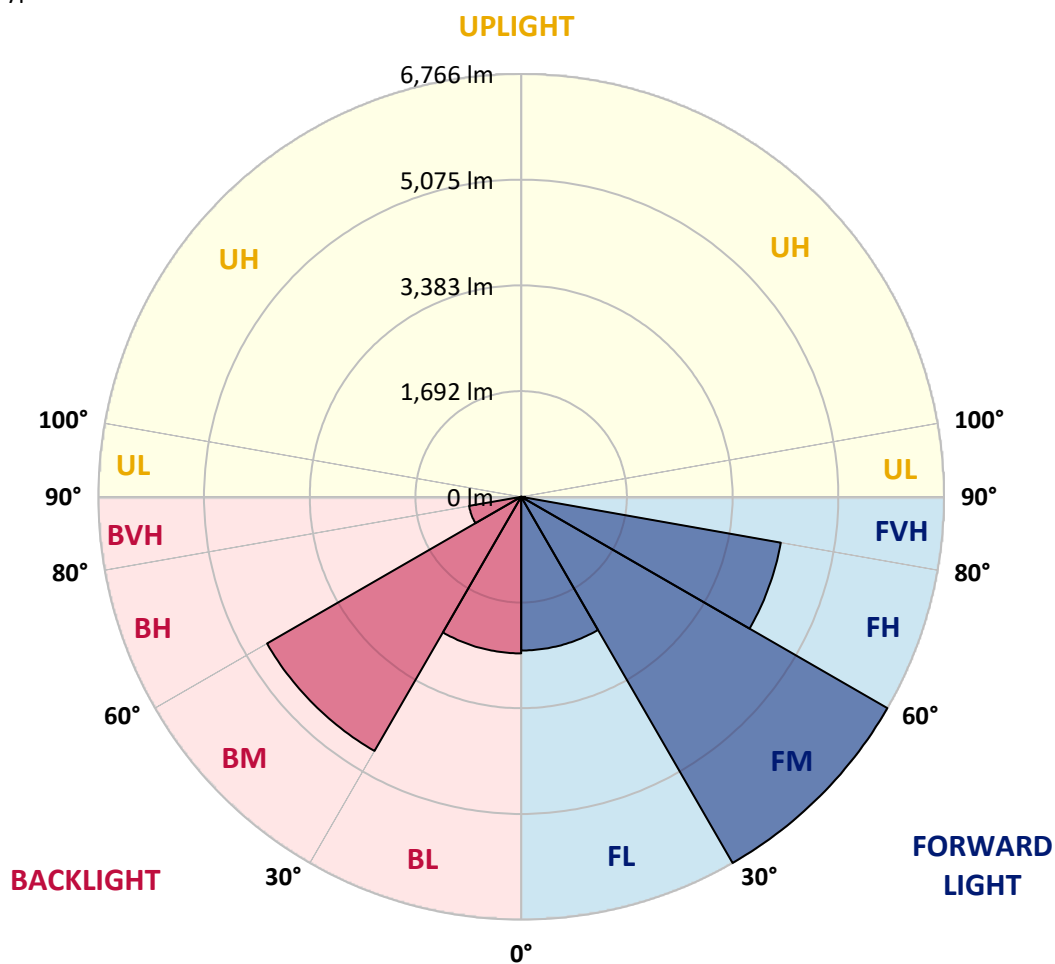


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2459.0	8.2			
FM	(30°-60°)	6766.5	22.6			
FH	(60°-80°)	4219.0	14.1			G2/5000
FVH	(80°-90°)	61.3	0.2			G1/100
BL	(0°-30°)	2505.0	8.4	B4/5000		
BM	(30°-60°)	4695.5	15.7	B3/5000		
BH	(60°-80°)	845.5	2.8	B2/1000		G2/1000
BVH	(80°-90°)	5.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		8442.3	28.1			

BUG Rating: B4-U0-G2
Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5885.7	5885.7	5885.7	5885.7	5885.7	5885.7	5885.7	5885.7	5885.7	5885.7	5885.7
2.5°	5703.4	5736.0	5762.0	5749.0	5743.8	5742.5	5762.0	5742.5	5762.0	5775.0	5781.5
5°	5521.1	5542.0	5547.2	5553.7	5542.0	5566.7	5566.7	5579.7	5605.8	5595.3	5631.8
7.5°	5599.2	5599.2	5586.2	5573.2	5548.5	5534.1	5521.1	5501.6	5501.6	5495.1	5508.1
10°	5846.7	5859.7	5827.1	5802.4	5749.0	5713.8	5685.2	5621.4	5586.2	5560.2	5547.2
12.5°	6180.0	6172.2	6178.7	6146.1	6087.6	6029.0	5944.3	5879.2	5775.0	5694.3	5635.7
15°	6393.6	6400.1	6380.5	6384.4	6374.0	6299.8	6224.3	6081.0	6006.8	5896.1	5789.4
17.5°	6276.4	6276.4	6281.6	6308.9	6333.7	6348.0	6335.0	6276.4	6191.7	6055.0	5905.3
20°	6133.1	6139.6	6139.6	6155.3	6159.2	6164.4	6211.3	6204.7	6126.6	6057.6	5963.8
22.5°	6341.5	6348.0	6289.4	6172.2	6087.6	6002.9	5944.3	5898.7	5890.9	5853.2	5840.1
25°	6871.4	6751.6	6595.4	6471.7	6302.4	6048.5	5820.6	5670.9	5590.1	5560.2	5564.1
27.5°	7247.8	7164.4	7031.6	6881.9	6673.5	6387.0	6042.0	5801.1	5592.7	5456.0	5351.8
30°	7331.1	7251.7	7156.6	7098.0	7012.1	6745.1	6394.9	6238.6	5957.3	5618.8	5332.3
32.5°	7396.2	7253.0	7035.5	6927.4	6849.3	6712.6	6641.0	6595.4	6465.2	6061.5	5510.7
35°	7383.2	7233.4	6953.5	6647.5	6426.1	6387.0	6699.6	7148.8	7259.5	6570.6	5807.6
37.5°	7087.6	7038.1	6857.1	6575.9	6321.9	6282.9	6690.4	7454.8	7773.8	7070.7	6055.0
40°	6614.9	6768.6	6868.8	6849.3	6627.9	6491.2	6836.3	7565.5	7865.0	7142.3	6113.6
42.5°	6380.5	6562.8	7103.2	7363.7	7207.4	6875.4	7096.7	7461.3	7491.3	6920.9	6042.0
45°	6745.1	6914.4	7715.2	8242.6	7904.1	7266.0	7114.9	7116.2	6991.2	6667.0	5983.4
47.5°	7435.3	7747.8	8613.7	8971.8	8488.7	7572.0	7103.2	6960.0	6745.1	6426.1	5781.5
50°	7910.6	8014.7	8781.7	8900.2	8125.4	7350.6	6989.9	6764.7	6575.9	6198.2	5538.0
52.5°	7982.2	8099.4	8379.3	8385.8	7363.7	6582.4	6575.9	6573.3	6374.0	5950.8	5397.4
55°	7617.6	7793.4	8079.8	8060.3	7226.9	6146.1	5996.4	6074.5	6008.1	5741.2	5427.4
57°	7213.9	7448.3	8027.8	8040.8	7350.6	6048.5	5625.3	5592.7	5729.5	5672.2	5553.7
58°	7070.7	7305.1	8008.2	8184.0	7598.0	6230.8	5553.7	5431.3	5625.3	5686.5	5657.8
59°	6953.5	7226.9	8073.3	8467.9	7988.7	6556.3	5599.2	5364.9	5573.2	5672.2	5742.5
60°	6966.5	7259.5	8255.6	8861.1	8448.3	6979.5	5775.0	5351.8	5514.6	5661.7	5762.0
61°	7083.7	7461.3	8594.2	9492.7	8975.7	7378.0	6061.5	5377.9	5461.2	5604.5	5683.9
62°	7357.1	7707.4	9066.9	10443.2	9909.4	8105.9	6335.0	5416.9	5364.9	5475.5	5519.8
63°	7904.1	8264.7	9779.1	11712.8	11250.6	9121.6	6842.8	5482.1	5221.6	5273.7	5260.7
64°	8698.4	9167.1	10794.8	12826.2	12871.8	10371.6	7480.9	5560.2	5065.4	5026.3	4915.6
65°	9583.8	9902.9	11843.1	14323.6	14246.8	11541.0	8223.1	5696.9	4928.6	4870.0	4629.1
66°	10247.9	10710.2	12630.9	15645.3	15424.0	12831.4	9141.1	5911.8	4831.0	4687.7	4375.2
67°	10378.1	10710.2	12758.5	16211.8	16322.5	13913.5	9935.4	6243.8	4791.9	4518.5	4159.1
68°	9909.4	10163.3	12201.1	15560.7	16293.8	14617.9	10866.4	6686.5	4759.4	4336.2	3919.5
69°	9016.1	9095.5	10801.3	14055.4	14981.2	14219.5	11231.0	7077.2	4733.3	4101.8	3626.5
70°	7833.7	7923.6	9238.8	12246.7	12819.7	12468.1	10547.4	7034.2	4596.6	3808.8	3333.5
72.5°	4010.6	4121.3	4630.4	7246.5	7708.7	6599.3	6458.7	4850.5	3646.0	2682.4	2057.4
75°	2565.2	2487.1	2506.6	2833.5	2591.3	2213.7	1966.2	1595.1	1464.9	1125.1	975.3
77.5°	2349.1	2181.1	1673.3	1259.2	983.1	813.8	670.6	565.1	487.0	503.9	530.0
80°	1692.8	1683.7	1170.6	688.8	457.1	358.1	290.4	227.9	221.4	229.2	250.0
82.5°	575.6	515.7	414.1	226.6	155.0	130.2	104.2	96.4	83.3	84.6	93.8
85°	69.0	53.4	48.2	41.7	43.0	37.8	33.9	28.6	28.6	27.3	28.6
87.5°	18.2	14.3	14.3	14.3	18.2	13.0	11.7	10.4	10.4	10.4	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5885.7	5885.7	5885.7	5885.7	5885.7	5885.7	5885.7	5885.7	5885.7	5885.7	5885.7
2.5°	5794.6	5807.6	5807.6	5814.1	5829.7	5846.7	5855.8	5859.7	5872.7	5872.7	5897.4
5°	5638.3	5670.9	5696.9	5717.7	5755.5	5788.1	5820.6	5840.1	5859.7	5888.3	5923.5
7.5°	5514.6	5540.6	5560.2	5603.2	5637.0	5683.9	5722.9	5755.5	5788.1	5827.1	5872.7
10°	5528.9	5534.1	5527.6	5555.0	5592.7	5640.9	5722.9	5768.5	5794.6	5833.6	5866.2
12.5°	5587.5	5528.9	5508.1	5488.6	5508.1	5560.2	5657.8	5749.0	5833.6	5893.5	5937.8
15°	5677.4	5579.7	5508.1	5470.3	5469.0	5521.1	5626.6	5749.0	5859.7	5948.2	6009.4
17.5°	5768.5	5644.8	5527.6	5462.5	5436.5	5462.5	5573.2	5716.4	5859.7	5983.4	6074.5
20°	5836.2	5707.3	5579.7	5469.0	5410.4	5426.1	5523.7	5677.4	5866.2	6031.6	6204.7
22.5°	5768.5	5677.4	5553.7	5449.5	5397.4	5410.4	5495.1	5676.1	5879.2	6120.1	6321.9
25°	5570.6	5553.7	5469.0	5371.4	5332.3	5325.8	5397.4	5579.7	5898.7	6172.2	6315.4
27.5°	5377.9	5449.5	5428.7	5325.8	5229.4	5105.7	5110.9	5338.8	5762.0	6035.5	6120.1
30°	5249.0	5260.7	5264.6	5254.2	5104.4	4877.9	4759.4	5031.5	5463.8	5708.6	5749.0
32.5°	5189.1	5091.4	4991.1	4967.7	4933.8	4674.7	4394.8	4648.7	5104.4	5377.9	5314.1
35°	5286.7	4988.5	4844.0	4828.4	4802.3	4492.4	4139.5	4388.2	4876.6	5052.3	5078.4
37.5°	5390.9	4980.7	4791.9	4741.1	4707.3	4297.1	3958.5	4153.9	4622.6	4778.9	4876.6
40°	5462.5	4995.0	4739.8	4648.7	4453.4	4095.3	3789.3	3966.3	4479.4	4616.1	4557.5
42.5°	5467.7	5013.3	4765.9	4642.2	4329.6	3893.4	3607.0	3730.7	4192.9	4423.4	4427.3
45°	5410.4	5032.8	4810.1	4511.9	4054.9	3696.8	3488.5	3652.5	4114.8	4321.8	4479.4
47.5°	5267.2	5006.8	4798.4	4427.3	3932.5	3561.4	3333.5	3489.8	4056.2	4297.1	4453.4
50°	5169.5	5058.9	4804.9	4316.6	3886.9	3463.7	3169.4	3457.2	3952.0	4127.8	3965.0
52.5°	5176.0	5143.5	4889.6	4198.1	3834.8	3569.2	3346.5	3561.4	3782.7	3561.4	3073.1
55°	5325.8	5286.7	4635.7	4095.3	3997.6	3772.3	3496.3	3314.0	3017.1	2897.3	2790.5
57°	5521.1	5204.7	4440.3	4101.8	4090.1	3906.4	3437.7	3066.6	2893.4	2747.5	2597.8
58°	5618.8	5091.4	4424.7	4108.3	4101.8	3886.9	3379.1	3021.0	2825.7	2688.9	2474.1
59°	5631.8	4957.3	4342.7	4069.2	4010.6	3795.8	3268.4	2910.3	2715.0	2571.7	2330.8
60°	5527.6	4738.5	4222.9	3965.0	3880.4	3633.0	3129.1	2799.6	2649.9	2465.0	2208.4
61°	5342.7	4595.3	4090.1	3774.9	3652.5	3385.6	2890.8	2630.3	2448.0	2291.8	2070.4
62°	5039.3	4336.2	3807.5	3483.3	3314.0	3060.1	2694.1	2415.5	2280.1	2155.1	1971.5
63°	4707.3	4043.2	3580.9	3178.5	2953.3	2754.0	2493.6	2276.2	2109.5	2018.3	1849.1
64°	4368.7	3672.1	3281.4	2838.7	2623.8	2415.5	2200.6	2044.4	1894.6	1855.6	1718.8
65°	4069.2	3515.8	2929.8	2579.6	2324.3	2122.5	1972.8	1829.5	1724.0	1696.7	1614.7
66°	3873.9	3307.5	2793.1	2356.9	2076.9	1880.3	1751.4	1640.7	1539.1	1543.0	1491.0
67°	3620.0	3060.1	2584.8	2213.7	1881.6	1653.7	1569.1	1471.4	1364.7	1369.9	1354.2
68°	3366.1	2838.7	2382.9	2020.9	1720.1	1569.1	1418.0	1330.8	1267.0	1199.3	1199.3
69°	3125.2	2604.3	2129.0	1791.8	1531.3	1356.8	1263.1	1205.8	1125.1	993.5	958.4
70°	2838.7	2246.2	1751.4	1532.6	1319.1	1182.4	1079.5	996.1	893.3	770.9	718.8
72.5°	1622.5	1224.0	1067.8	1010.5	967.5	855.5	725.3	601.6	484.4	450.5	403.7
75°	902.4	845.1	819.1	849.0	815.1	731.8	613.3	470.1	380.2	339.9	308.6
77.5°	556.0	604.2	647.2	662.8	631.5	514.3	386.7	312.5	235.7	208.3	181.0
80°	298.2	356.8	407.6	365.9	336.0	269.5	218.8	157.6	125.0	106.8	85.9
82.5°	100.3	125.0	128.9	121.1	112.0	99.0	74.2	54.7	52.1	41.7	35.2
85°	31.3	26.0	27.3	26.0	22.1	24.7	20.8	18.2	16.9	15.6	11.7
87.5°	9.1	7.8	6.5	6.5	6.5	6.5	5.2	3.9	3.9	2.6	2.6
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°	5885.7	5885.7	5885.7	5885.7	5885.7	5885.7	5885.7	5885.7	5885.7	5885.7	5885.7
2.5°	5913.1	5950.8	5957.3	5963.8	5940.4	5944.3	5950.8	5945.6	5957.3	5963.8	5969.1
5°	5937.8	5970.4	5983.4	5976.9	5944.3	5957.3	5963.8	5963.8	5970.4	5976.9	5983.4
7.5°	5885.7	5918.3	5937.8	5944.3	5928.7	5924.8	5924.8	5924.8	5937.8	5931.3	5937.8
10°	5896.1	5937.8	5950.8	5946.9	5931.3	5950.8	5950.8	5950.8	5950.8	5963.8	5957.3
12.5°	5957.3	5989.9	6035.5	6029.0	6032.9	6030.3	6002.9	6000.3	5989.9	5963.8	5927.4
15°	6042.0	6114.9	6152.7	6165.7	6146.1	6113.6	6061.5	6002.9	5950.8	5911.8	5866.2
17.5°	6152.7	6259.4	6321.9	6341.5	6282.9	6230.8	6165.7	6062.8	5944.3	5837.5	5733.4
20°	6324.5	6445.6	6491.2	6478.2	6463.9	6426.1	6289.4	6139.6	5946.9	5758.1	5592.7
22.5°	6463.9	6555.0	6582.4	6647.5	6686.5	6660.5	6523.8	6315.4	6035.5	5781.5	5527.6
25°	6406.6	6458.7	6523.8	6638.4	6699.6	6716.5	6588.9	6363.6	6107.1	5819.3	5508.1
27.5°	6152.7	6189.1	6285.5	6393.6	6467.8	6504.2	6387.0	6224.3	6094.1	5905.3	5612.3
30°	5739.9	5775.0	5780.2	5867.5	5957.3	6009.4	5944.3	5967.8	5975.6	5820.6	5534.1
32.5°	5286.7	5221.6	5169.5	5195.6	5260.7	5222.9	5398.7	5586.2	5656.5	5574.5	5416.9
35°	5013.3	4888.3	4785.4	4713.8	4621.3	4668.2	4954.7	5147.4	5286.7	5377.9	5306.3
37.5°	4778.9	4505.4	4433.8	4393.5	4288.0	4342.7	4472.9	4767.2	5036.7	5212.5	5220.3
40°	4466.4	4302.3	4354.4	4205.9	4069.2	4049.7	4202.0	4511.9	4831.0	5026.3	5117.4
42.5°	4427.3	4284.1	4212.5	3952.0	3724.1	3748.9	3991.1	4332.3	4617.4	4798.4	4915.6
45°	4466.4	4160.4	3659.0	3431.2	3379.1	3579.6	3867.4	4191.6	4347.9	4525.0	4687.7
47.5°	4114.8	3475.4	3191.6	3099.1	3248.9	3489.8	3750.2	3952.0	4173.4	4381.7	4609.6
50°	3333.5	2988.4	2962.4	2942.9	3092.6	3349.1	3548.4	3823.1	4083.5	4264.5	4492.4
52.5°	2884.3	2772.3	2741.0	2799.6	2936.3	3096.5	3333.5	3678.6	3926.0	4036.7	4316.6
55°	2617.3	2515.8	2565.2	2695.5	2760.6	2903.8	3177.2	3535.3	3802.3	4049.7	4286.7
57°	2433.7	2358.2	2493.6	2610.8	2662.9	2799.6	3164.2	3526.2	3802.3	3958.5	3893.4
58°	2304.8	2291.8	2435.0	2552.2	2597.8	2767.1	3125.2	3459.8	3665.6	3475.4	3060.1
59°	2200.6	2233.2	2382.9	2487.1	2548.3	2754.0	3112.1	3385.6	3493.7	2830.9	2122.5
60°	2090.0	2188.9	2332.2	2422.0	2504.0	2754.0	3086.1	3243.7	2975.4	2122.5	1627.7
61°	1998.8	2129.0	2284.0	2337.4	2435.0	2708.5	2968.9	2914.2	2200.6	1569.1	1351.6
62°	1924.6	2070.4	2226.7	2252.7	2384.2	2552.2	2728.0	2122.5	1621.2	1438.9	1171.9
63°	1842.5	1998.8	2142.0	2170.7	2291.8	2337.4	2044.4	1382.9	1230.5	1162.8	988.3
64°	1738.4	1920.7	2018.3	2096.5	2109.5	1790.5	1380.3	981.8	910.2	856.8	751.3
65°	1621.2	1816.5	1875.1	1959.7	1743.6	1272.2	829.5	760.5	649.8	619.8	605.5
66°	1511.8	1686.3	1751.4	1679.8	1323.0	812.5	600.3	507.8	477.9	477.9	518.3
67°	1393.3	1537.8	1548.3	1325.6	809.9	503.9	385.4	309.9	332.0	375.0	436.2
68°	1160.2	1272.2	1158.9	860.7	510.4	343.8	270.8	225.3	244.8	298.2	336.0
69°	951.9	951.9	811.2	523.5	356.8	237.0	201.8	187.5	207.0	253.9	315.1
70°	664.1	630.2	514.3	381.5	259.1	192.7	175.8	171.9	195.3	240.9	313.8
72.5°	298.2	227.9	199.2	184.9	161.5	143.2	135.4	145.8	168.0	210.9	296.9
75°	165.4	141.9	126.3	118.5	105.5	97.7	96.4	97.7	115.9	131.5	196.6
77.5°	106.8	74.2	66.4	59.9	53.4	48.2	52.1	44.3	37.8	41.7	43.0
80°	53.4	35.2	28.6	26.0	20.8	19.5	14.3	13.0	10.4	9.1	9.1
82.5°	23.4	16.9	14.3	13.0	15.6	9.1	7.8	6.5	6.5	5.2	5.2
85°	9.1	6.5	6.5	5.2	5.2	3.9	3.9	2.6	2.6	2.6	2.6
87.5°	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	165°	170°	175°	180°
0°	5885.7	5885.7	5885.7	5885.7
2.5°	5971.7	5989.9	5976.9	5976.9
5°	5989.9	5989.9	5996.4	5989.9
7.5°	5944.3	5944.3	5937.8	5924.8
10°	5957.3	5957.3	5950.8	5950.8
12.5°	5898.7	5872.7	5850.6	5859.7
15°	5831.0	5768.5	5736.0	5729.5
17.5°	5625.3	5534.1	5523.7	5478.1
20°	5462.5	5358.3	5286.7	5273.7
22.5°	5299.8	5137.0	5083.6	5026.3
25°	5247.7	5071.9	4974.2	4935.1
27.5°	5293.2	5058.9	4915.6	4870.0
30°	5229.4	5004.2	4889.6	4847.9
32.5°	5198.2	5045.8	5006.8	5013.3
35°	5221.6	5221.6	5312.8	5351.8
37.5°	5247.7	5397.4	5644.8	5690.4
40°	5232.0	5469.0	5811.5	5898.7
42.5°	5006.8	5273.7	5590.1	5686.5
45°	4863.5	5109.6	5351.8	5428.7
47.5°	4808.8	5019.8	5182.6	5221.6
50°	4570.5	4798.4	4974.2	5052.3
52.5°	4498.9	4726.8	4948.2	5039.3
55°	4323.1	4420.8	4584.9	4687.7
57°	3269.7	3106.9	3151.2	3138.2
58°	2702.0	2363.4	2458.5	2561.3
59°	1959.7	1953.2	2220.2	2371.2
60°	1621.2	1690.2	1924.6	2135.5
61°	1347.7	1517.0	1752.7	1936.3
62°	1152.4	1350.3	1643.3	1783.9
63°	987.0	1225.3	1523.5	1640.7
64°	863.3	1145.9	1451.9	1575.6
65°	759.2	1093.8	1419.3	1549.6
66°	699.3	1031.3	1392.0	1510.5
67°	612.0	975.3	1315.2	1458.4
68°	500.0	931.0	1375.1	1510.5
69°	514.3	1007.9	1485.8	1666.8
70°	536.5	1087.3	1597.7	1770.9
72.5°	579.5	1267.0	2096.5	2369.9
75°	454.5	1071.7	1670.7	1899.8
77.5°	59.9	102.9	65.1	79.4
80°	9.1	9.1	10.4	11.7
82.5°	6.5	6.5	6.5	6.5
85°	2.6	3.9	2.6	3.9
87.5°	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)