

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: 768356\_320MP

Luminaire Tested: **TRU32PXX2F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768356\_320MP  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: TRU32PXX2F  
Description: ARCHITECTURAL AREA LUMINAIRE - TYPE II  
Light Source: 320 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 30000 (1 lamp)  
Luminaire Lumens: 21826.5 lumens  
Efficiency: 72.8%  
Efficacy: 62.4 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G3

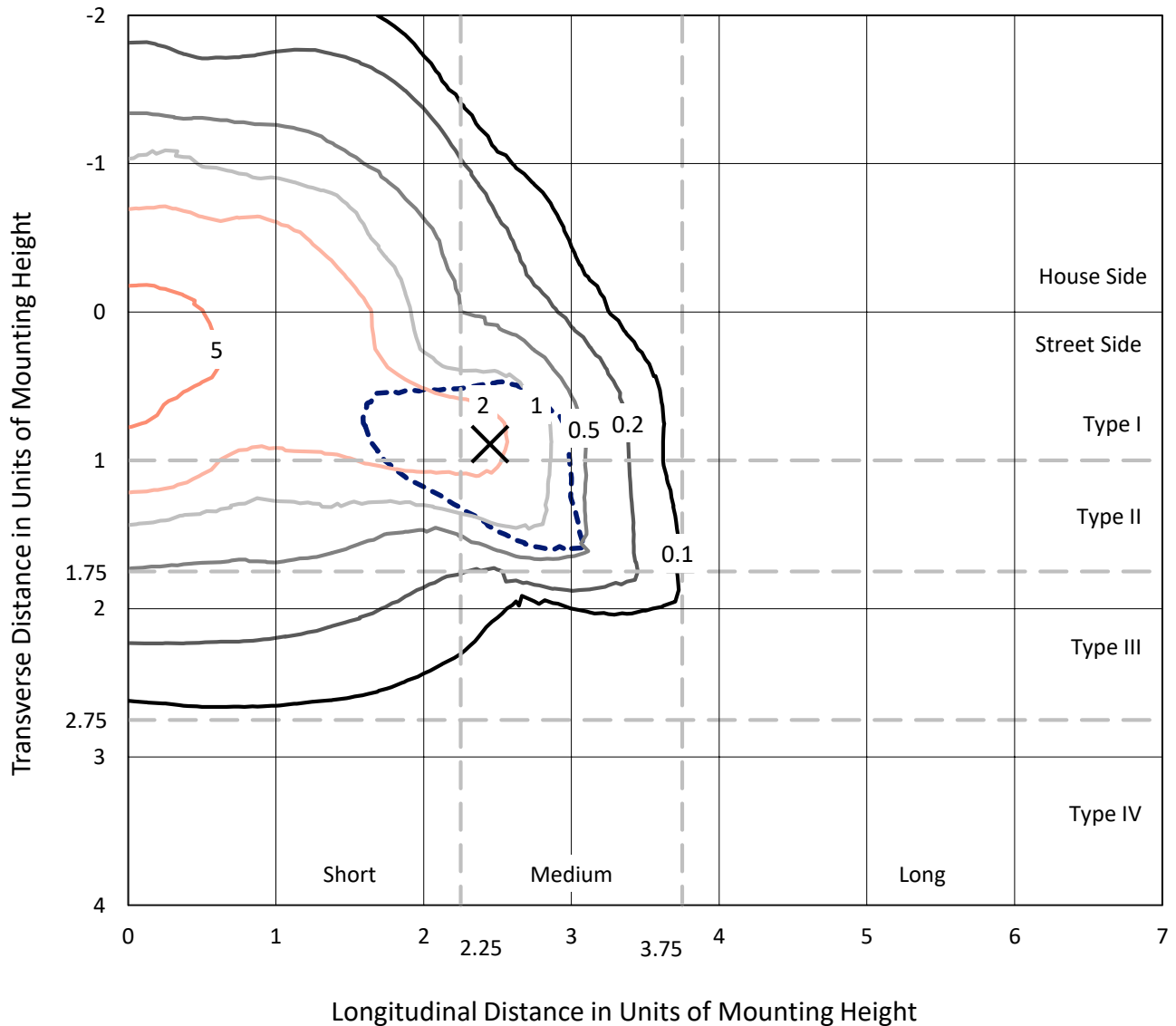
Input Watts (W): 350  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

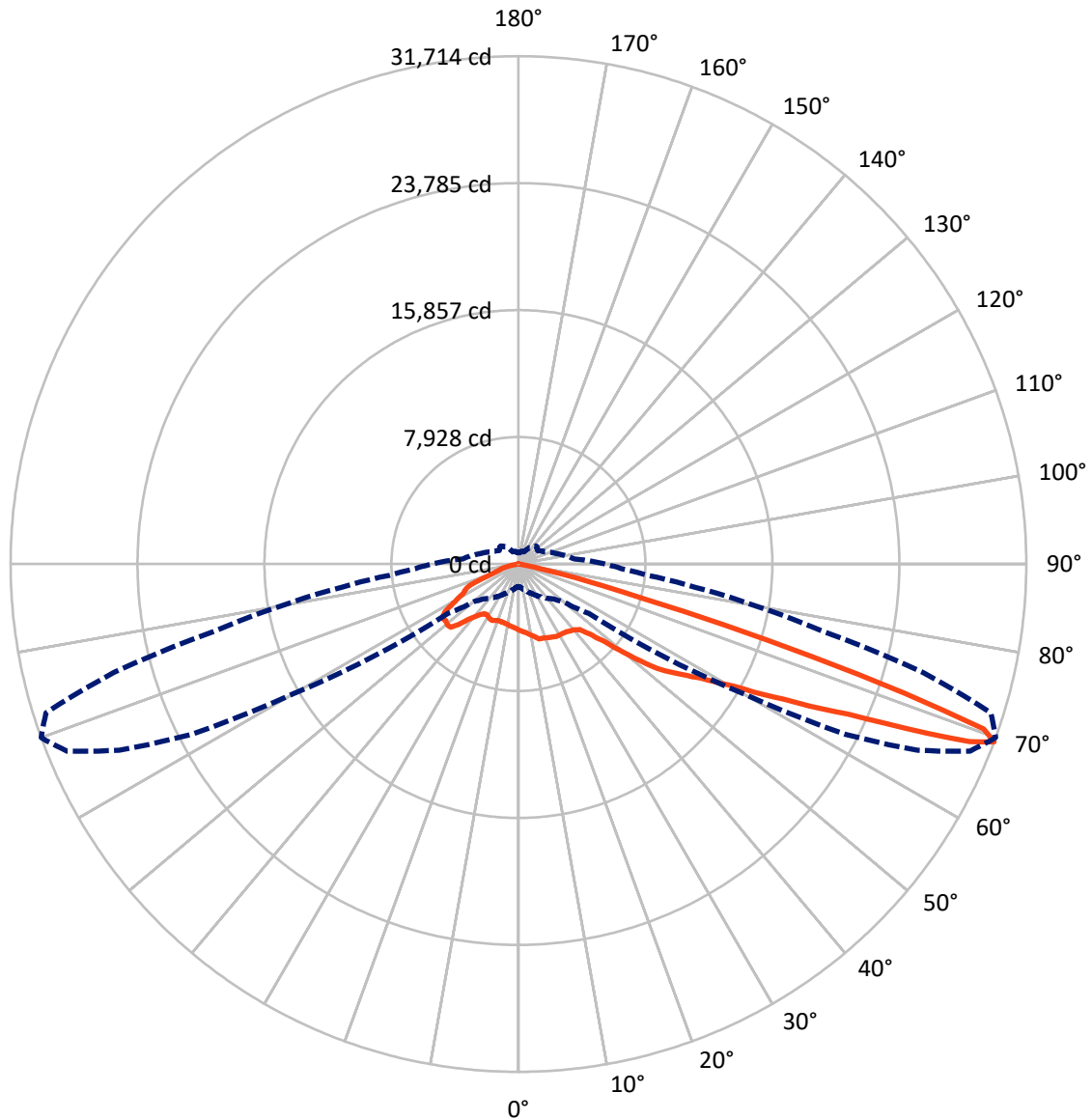
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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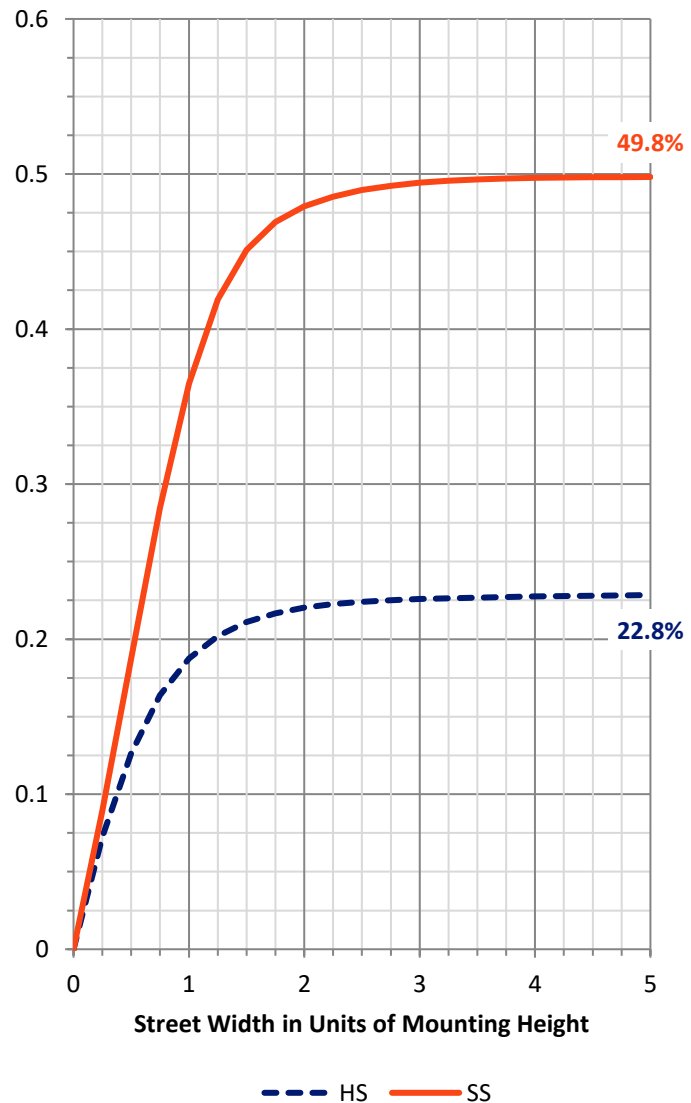
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6884.3	0.0	6884.3
	% Lamp	22.9	0.0	22.9
<b>Street Side</b>	Lumens	14942.2	0.0	14942.2
	% Lamp	49.8	0.0	49.8
<b>Total</b>	Lumens	21826.5	0.0	21826.5
	% Lamp	72.8	0.0	72.8

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	403.5	1.8	1.3
10°-20°	1240.1	5.7	4.1
20°-30°	2042.2	9.4	6.8
30°-40°	2711.0	12.4	9.0
40°-50°	3684.0	16.9	12.3
50°-60°	4627.3	21.2	15.4
60°-70°	5023.0	23.0	16.7
70°-80°	2051.0	9.4	6.8
80°-90°	44.4	0.2	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°	21826.5	100.0	72.8
0°-180°	21826.5	100.0	72.8

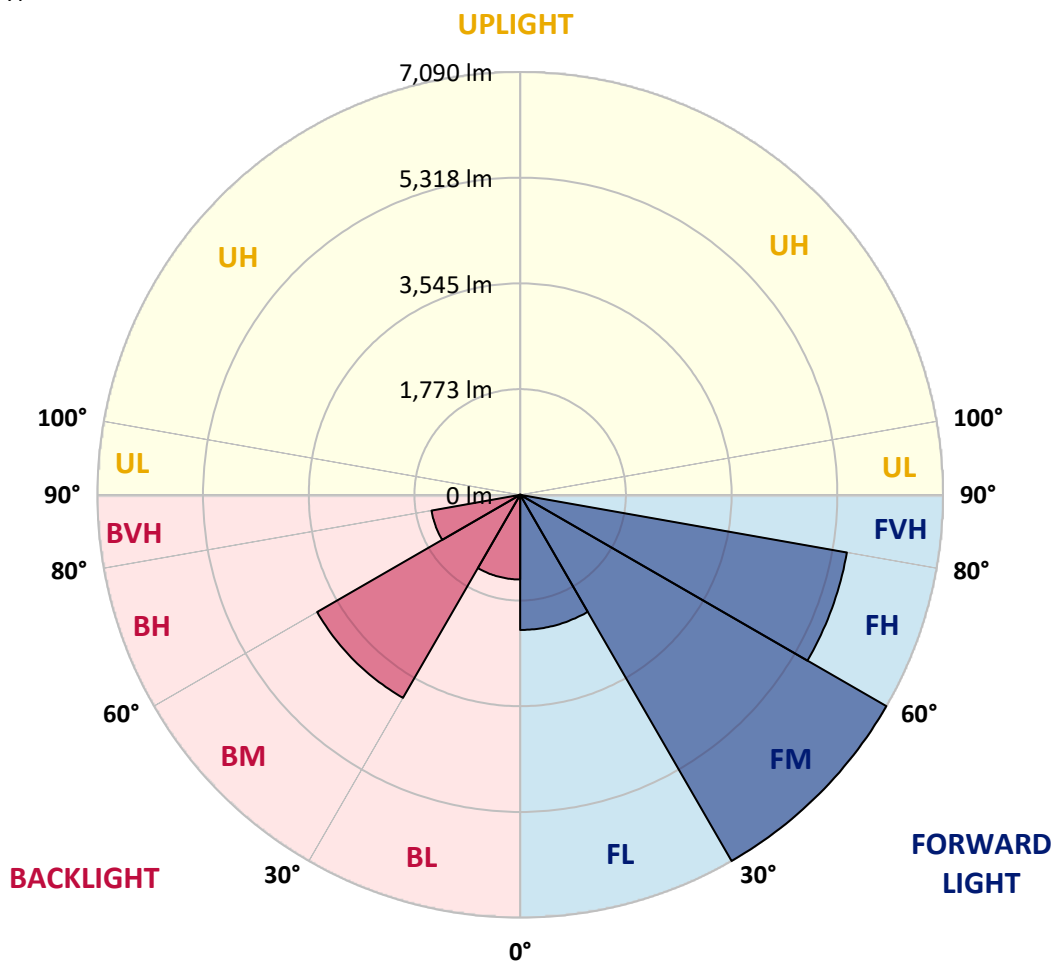


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2266.3	7.6			
FM (30°-60°)	7090.4	23.6			
FH (60°-80°)	5563.5	18.5			G3/7500
FVH (80°-90°)	22.0	0.1			G1/100
BL (0°-30°)	1419.4	4.7	B3/2500		
BM (30°-60°)	3931.9	13.1	B3/5000		
BH (60°-80°)	1510.5	5.0	B3/2500		G3/2500
BVH (80°-90°)	22.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	8173.5	27.2			

**BUG Rating: B3-U0-G3**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	60°	62.5°	65°
0°	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7
2.5°	4443.5	4418.1	4402.8	4372.4	4352.1	4296.2	4283.5	4258.1	4242.9	4227.6	4227.6
5°	4824.3	4809.1	4768.5	4699.9	4623.7	4545.0	4496.8	4407.9	4374.9	4349.5	4321.6
7.5°	5484.5	5395.6	5319.5	5187.4	5035.1	4854.8	4732.9	4636.4	4545.0	4514.6	4471.4
10°	5878.1	5840.0	5725.7	5492.1	5225.5	4989.4	4903.1	4809.1	4712.6	4659.3	4613.6
12.5°	6017.7	6005.0	5890.8	5687.6	5382.9	5129.0	5024.9	4931.0	4837.0	4798.9	4760.9
15°	6017.7	6030.4	5954.2	5738.4	5535.3	5281.4	5230.6	5154.4	5073.2	5032.5	4984.3
17.5°	6124.4	6144.7	6055.8	5814.6	5624.2	5537.8	5484.5	5319.5	5129.0	5068.1	5012.2
20°	6373.2	6360.5	6144.7	5827.3	5713.0	5687.6	5603.8	5426.1	5192.5	5131.6	5047.8
22.5°	6398.6	6449.4	6220.9	5878.1	5814.6	5713.0	5598.8	5484.5	5294.1	5205.2	5144.3
25°	6576.3	6652.5	6233.6	5903.5	5776.5	5700.3	5611.5	5509.9	5370.2	5281.4	5192.5
27.5°	7109.6	6779.5	6205.6	5789.2	5575.9	5629.2	5624.2	5573.4	5459.1	5370.2	5268.7
30°	6931.8	6703.3	6007.6	5548.0	5408.3	5573.4	5702.9	5715.6	5563.2	5433.7	5332.2
32.5°	6500.2	6449.4	5751.1	5268.7	5319.5	5586.1	5733.3	5827.3	5624.2	5497.2	5370.2
35°	6373.2	6297.0	5812.1	5192.5	5268.7	5548.0	5700.3	5852.7	5725.7	5578.5	5459.1
37.5°	6347.8	6258.9	5954.2	5306.8	5256.0	5509.9	5708.0	5923.8	5890.8	5771.4	5606.4
40°	6322.4	6233.6	5916.2	5380.4	5230.6	5598.8	5865.4	6129.4	6055.8	5939.0	5738.4
42.5°	6297.0	6208.2	5954.2	5504.8	5129.0	5814.6	5890.8	6005.0	5992.3	5928.9	5814.6
45°	6170.1	6093.9	5941.6	5636.9	5014.8	5586.1	5700.3	6093.9	6322.4	6436.7	6360.5
47.5°	5763.8	5789.2	5789.2	5548.0	4837.0	5344.9	5855.2	6779.5	7216.2	7338.1	7274.6
50°	5154.4	5096.0	5065.6	4920.8	4321.6	5344.9	6304.6	7683.4	8645.7	8950.4	8823.5
52.5°	4062.6	4037.2	4164.2	3973.7	4075.3	5319.5	6576.3	8721.9	10286.0	10461.2	10600.8
55°	3250.1	3161.2	3206.9	3531.9	3849.3	5230.6	6741.4	9191.6	11134.1	11629.2	11857.7
57.5°	2818.4	2757.5	2798.1	3318.6	3808.7	5090.9	6309.7	8950.4	11418.4	12335.1	13089.2
60°	2483.3	2424.9	2549.3	3016.5	4100.7	5281.4	6132.0	9280.5	12467.1	14308.0	15196.7
62.5°	2178.6	2204.0	2341.1	2704.2	3973.7	6182.8	7058.8	10138.7	14853.9	16778.5	18104.0
65°	1939.9	1939.9	2107.5	2503.6	3135.8	4804.0	6258.9	9364.3	16669.4	19729.0	21719.7
66°	1810.4	1838.3	2011.0	2384.2	2958.1	4088.0	5433.7	8252.2	16758.2	20465.3	23651.9
67°	1686.0	1688.5	1919.6	2300.4	2767.6	3592.9	4689.8	7338.1	16567.8	20681.2	24324.8
68°	1548.9	1571.7	1825.6	2181.1	2666.1	3351.6	4138.8	6436.7	16222.5	21328.6	25403.9
69°	1396.5	1454.9	1719.0	2044.0	2516.3	3072.3	3643.6	5370.2	16174.2	23042.6	27511.4
70°	1264.5	1312.7	1569.2	1912.0	2404.6	2856.5	3237.4	4524.7	16458.6	23994.7	28590.5
71°	1129.9	1188.3	1444.8	1800.2	2300.4	2716.9	2945.4	4011.8	16872.5	25277.0	27409.9
72°	1005.5	1069.0	1328.0	1693.6	2148.1	2544.2	2666.1	3465.9	16352.0	23842.4	24243.6
73°	878.5	942.0	1203.5	1576.8	1998.3	2379.2	2323.3	2559.4	13990.6	19830.6	17870.4
74°	700.8	728.7	916.6	1396.5	1810.4	1990.7	1807.9	1620.0	10334.2	15806.1	12365.5
75°	449.4	533.2	614.5	975.0	1411.8	1333.0	1028.3	1282.3	6550.9	9864.5	7566.6
77.5°	88.9	93.9	129.5	213.3	335.2	317.4	304.7	474.8	1561.6	2343.6	1828.2
80°	55.9	55.9	53.3	58.4	71.1	101.6	129.5	198.1	299.6	431.7	444.3
82.5°	33.0	33.0	30.5	25.4	30.5	43.2	53.3	81.3	91.4	104.1	101.6
85°	22.9	20.3	15.2	10.2	12.7	15.2	20.3	22.9	27.9	38.1	38.1
87.5°	15.2	15.2	7.6	2.5	0.0	0.0	0.0	2.5	2.5	5.1	5.1
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):**

	67.5°	70°	72.5°	75°	77.5°	80°	82.5°	85°	87.5°	90°	95°
0°	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7
2.5°	4217.5	4202.3	4184.5	4181.9	4176.9	4169.2	4161.6	4151.5	4131.2	4121.0	4098.1
5°	4298.7	4286.0	4258.1	4240.3	4227.6	4199.7	4179.4	4159.1	4136.2	4113.4	4080.4
7.5°	4435.9	4390.1	4369.8	4326.7	4296.2	4270.8	4235.3	4214.9	4174.3	4136.2	4075.3
10°	4578.0	4532.3	4484.1	4443.5	4410.5	4359.7	4306.4	4260.7	4207.3	4159.1	4062.6
12.5°	4727.9	4677.1	4649.1	4616.1	4567.9	4512.0	4456.2	4387.6	4316.5	4240.3	4100.7
15°	4925.9	4859.9	4781.2	4705.0	4633.9	4555.2	4476.5	4397.8	4319.1	4237.8	4085.5
17.5°	4956.4	4865.0	4788.8	4710.1	4631.4	4550.1	4466.3	4385.1	4311.4	4242.9	4100.7
20°	4986.8	4915.7	4839.6	4755.8	4689.8	4595.8	4512.0	4435.9	4367.3	4288.6	4159.1
22.5°	5052.9	4984.3	4918.3	4837.0	4758.3	4677.1	4585.7	4524.7	4448.5	4390.1	4253.0
25°	5121.4	5040.2	4984.3	4903.1	4829.4	4740.5	4651.7	4570.4	4501.9	4438.4	4306.4
27.5°	5192.5	5116.3	5022.4	4946.2	4849.7	4750.7	4651.7	4557.7	4476.5	4405.4	4268.3
30°	5217.9	5116.3	5019.9	4938.6	4839.6	4717.7	4631.4	4527.3	4443.5	4357.1	4204.8
32.5°	5268.7	5141.7	5022.4	4931.0	4837.0	4732.9	4613.6	4519.6	4423.2	4339.4	4187.0
35°	5319.5	5192.5	5052.9	4966.5	4882.7	4793.9	4694.8	4595.8	4499.3	4438.4	4288.6
37.5°	5441.3	5294.1	5167.1	5068.1	4974.1	4910.7	4849.7	4793.9	4743.1	4664.4	4517.1
40°	5535.3	5395.6	5271.2	5200.1	5174.7	5177.3	5111.3	5096.0	5065.6	5019.9	4801.5
42.5°	5702.9	5598.8	5573.4	5573.4	5548.0	5560.7	5527.7	5479.4	5418.5	5405.8	5212.8
45°	6322.4	6220.9	6208.2	6208.2	6220.9	6157.4	6132.0	6081.2	6055.8	5890.8	5713.0
47.5°	7312.7	7231.4	7363.5	7325.4	7134.9	7046.1	7013.1	6893.7	6779.5	6627.1	6378.3
50°	8975.8	8950.4	8953.0	8767.6	8379.1	8137.9	7922.1	7795.1	7642.8	7376.2	6868.3
52.5°	10473.9	10842.1	10765.9	10575.5	10108.3	9803.6	9559.8	9255.1	8709.2	8188.7	7350.8
55°	11916.1	12073.5	11959.3	11446.4	10887.8	10499.3	10448.5	10522.1	10296.2	9608.0	8188.7
57.5°	13279.6	13457.4	13081.6	12314.8	11324.5	10451.0	9940.7	9737.5	9889.9	9651.2	8023.6
60°	15691.8	15501.4	14993.5	13228.8	11210.2	9724.8	8874.2	8455.3	8455.3	8112.5	7071.5
62.5°	18218.2	18624.5	17144.2	14272.4	11210.2	8848.9	7325.4	6538.2	6512.9	6068.5	5598.8
65°	22732.8	22610.9	21521.6	17075.6	12098.9	8556.9	6258.9	5230.6	4809.1	4639.0	4339.4
66°	24489.9	24896.1	24494.9	19571.6	13330.4	9064.7	6170.1	5027.5	4771.0	4646.6	4532.3
67°	26932.5	27625.7	27150.9	22610.9	15412.5	10486.6	7122.2	5687.6	5337.2	5192.5	4773.6
68°	28925.7	30279.1	29766.2	25178.0	18269.0	12873.4	9204.3	6931.8	6055.8	5763.8	4316.5
69°	30520.3	31713.7	30934.2	26142.8	19513.2	14993.5	11146.8	8087.1	6413.8	5408.3	3514.1
70°	30431.4	30822.4	29339.6	25251.6	17951.6	13927.1	10687.2	7592.0	5751.1	4278.4	2790.5
71°	26775.1	25416.6	23677.3	21189.0	14765.0	11606.3	8912.3	6398.6	4760.9	3613.2	2338.5
72°	20554.2	19183.1	16872.5	15341.4	11834.9	9326.2	6868.3	5235.7	3757.9	2953.0	2110.0
73°	14650.8	13368.5	11222.9	10270.8	8236.9	6220.9	5276.3	3783.3	2970.8	2414.7	1972.9
74°	9658.8	8198.8	7071.5	6208.2	5598.8	4748.2	4049.9	3026.6	2429.9	2079.5	1833.2
75°	6538.2	5332.2	4339.4	3620.8	3440.5	3021.6	2600.1	2097.3	1876.4	1640.3	1642.8
77.5°	1632.7	1272.1	949.6	825.2	850.6	914.1	959.8	797.3	721.1	685.6	924.2
80°	332.6	312.3	228.5	241.2	226.0	241.2	243.8	236.1	246.3	236.1	297.1
82.5°	99.0	96.5	99.0	93.9	91.4	83.8	81.3	88.9	78.7	71.1	73.6
85°	33.0	35.5	35.5	33.0	33.0	30.5	25.4	22.9	20.3	20.3	20.3
87.5°	7.6	7.6	7.6	5.1	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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):**

	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7
2.5°	4055.0	3989.0	3928.0	3910.3	3910.3	3884.9	3859.5	3859.5	3859.5
5°	4014.4	3917.9	3846.8	3770.6	3694.4	3630.9	3656.3	3630.9	3630.9
7.5°	3978.8	3844.2	3732.5	3656.3	3587.8	3516.7	3440.5	3417.7	3427.8
10°	3912.8	3785.8	3656.3	3570.0	3468.4	3392.3	3313.6	3262.8	3250.1
12.5°	3884.9	3722.4	3575.1	3478.6	3351.6	3250.1	3166.3	3085.0	3123.1
15°	3864.5	3676.7	3516.7	3389.7	3250.1	3125.7	3021.6	2958.1	2970.8
17.5°	3872.2	3648.7	3465.9	3300.9	3173.9	3031.7	2920.0	2856.5	2843.8
20°	3889.9	3610.6	3415.1	3224.7	3072.3	2945.4	2848.9	2793.0	2793.0
22.5°	3958.5	3630.9	3300.9	3110.4	3021.6	2894.6	2767.6	2716.9	2691.5
25°	4049.9	3689.3	3237.4	3034.3	2958.1	2831.1	2671.2	2602.6	2589.9
27.5°	4062.6	3689.3	3199.3	2970.8	2907.3	2780.3	2589.9	2559.4	2554.4
30°	3981.3	3603.0	3097.7	2902.2	2869.2	2742.3	2539.1	2478.2	2470.6
32.5°	3917.9	3514.1	3097.7	2869.2	2808.3	2716.9	2521.4	2348.7	2325.8
35°	3994.0	3547.2	3135.8	2869.2	2716.9	2628.0	2381.7	2206.5	2186.2
37.5°	4225.1	3666.5	3265.3	2884.4	2615.3	2508.7	2305.5	2107.5	2112.6
40°	4537.4	3935.6	3427.8	2930.2	2554.4	2356.3	2394.4	2115.1	2150.6
42.5°	4920.8	4359.7	3821.4	2894.6	2478.2	2257.3	2719.4	2137.9	2201.4
45°	5497.2	4997.0	4214.9	2831.1	2384.2	2074.5	3052.0	1912.0	1914.5
47.5°	6017.7	5560.7	4232.7	2658.5	2297.9	1972.9	2249.7	1696.1	1658.0
50°	6246.2	5446.4	3961.0	2615.3	2219.2	1978.0	1693.6	1640.3	1597.1
52.5°	6258.9	5230.6	3669.0	2640.7	2120.2	1889.1	1498.1	1500.6	1508.2
55°	6413.8	5281.4	3542.1	2671.2	2018.6	1640.3	1366.0	1378.7	1348.3
57.5°	5771.4	5129.0	3389.7	2579.8	1922.1	1419.4	1213.7	1254.3	1241.6
60°	4938.6	4212.4	3021.6	2427.4	1853.6	1295.0	1061.4	1162.9	1142.6
62.5°	4227.6	3554.8	2704.2	2323.3	1787.5	1208.6	931.9	1079.1	1061.4
65°	4126.1	3161.2	2589.9	2191.3	1691.1	1112.1	832.8	893.8	1028.3
66°	4011.8	3008.9	2508.7	2102.4	1620.0	1063.9	799.8	812.5	980.1
67°	3630.9	2831.1	2404.6	2005.9	1561.6	1010.6	799.8	771.9	921.7
68°	3054.6	2333.5	2130.3	1886.6	1472.7	926.8	804.9	741.4	845.5
69°	2475.6	1800.2	1467.6	1587.0	1277.2	835.4	827.8	700.8	718.6
70°	2102.4	1322.9	1071.5	1036.0	929.3	675.4	845.5	627.2	609.4
71°	1917.0	1188.3	802.4	713.5	685.6	502.7	843.0	525.6	515.4
72°	1713.9	1025.8	629.7	576.4	561.1	406.3	825.2	452.0	424.0
73°	1584.4	891.2	535.8	479.9	464.7	347.9	815.1	413.9	388.5
74°	1498.1	789.7	467.2	388.5	345.3	266.6	812.5	403.7	363.1
75°	1482.8	700.8	408.8	314.9	269.1	203.1	804.9	391.0	337.7
77.5°	1162.9	441.8	243.8	215.8	142.2	104.1	586.5	360.6	269.1
80°	429.1	167.6	119.3	101.6	73.6	53.3	231.1	220.9	172.7
82.5°	78.7	60.9	53.3	48.2	33.0	25.4	45.7	50.8	38.1
85°	20.3	17.8	20.3	25.4	15.2	10.2	12.7	10.2	10.2
87.5°	2.5	2.5	7.6	7.6	2.5	2.5	5.1	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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