

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P191425

Luminaire Tested: **GAN-AF-07-LED-U-T2R-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-T2R-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49221.3 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

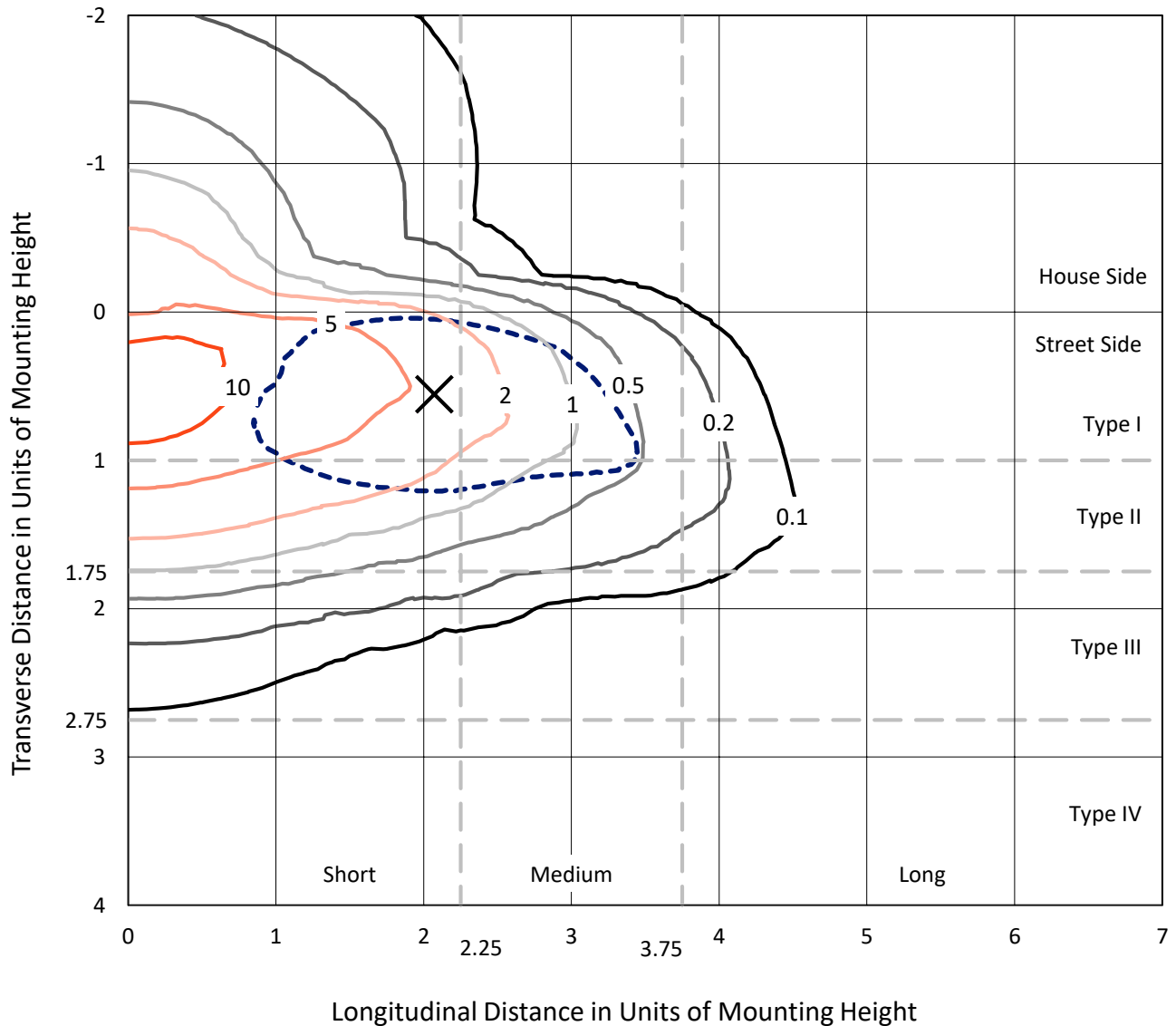
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

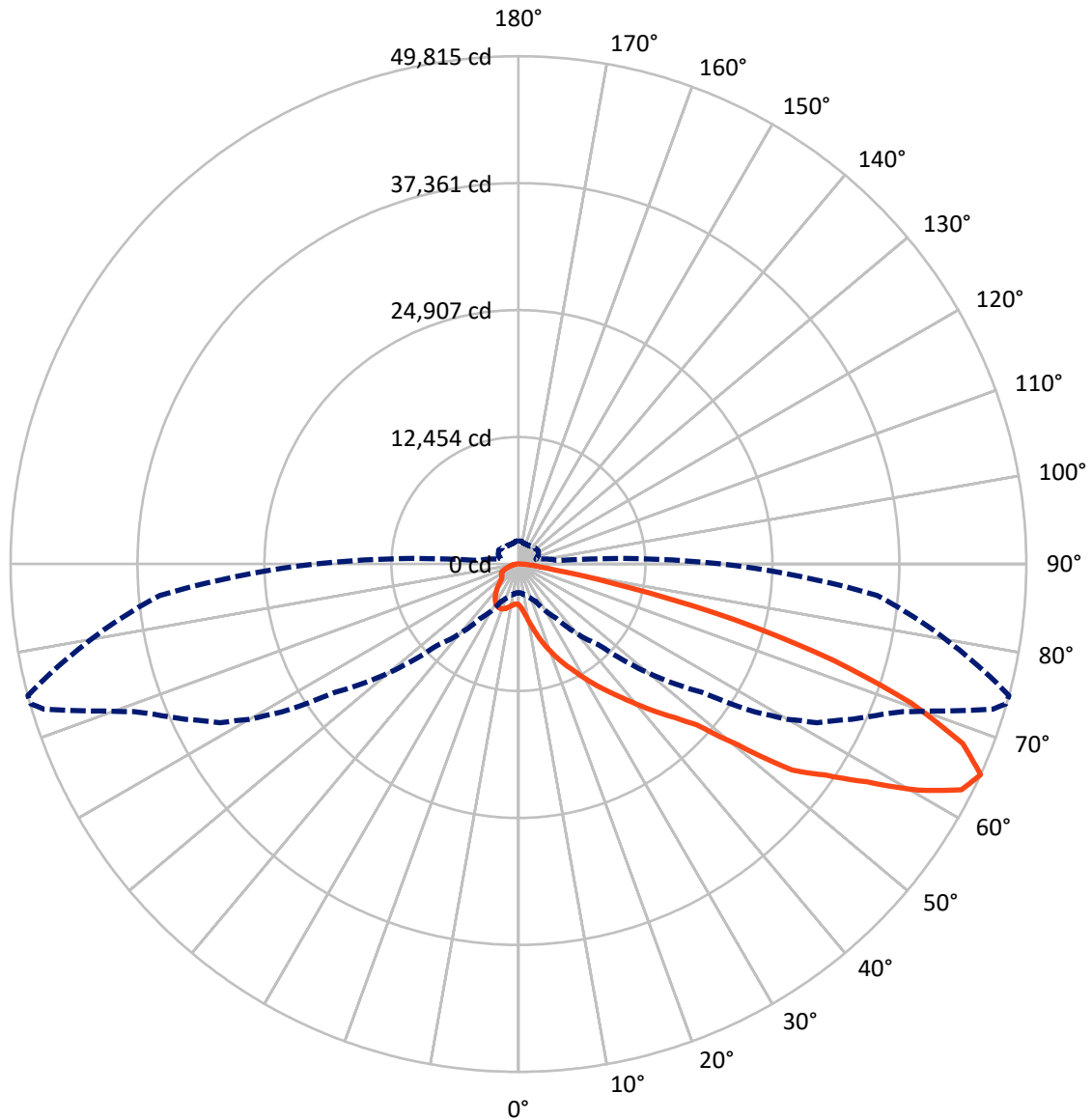
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7588.8	0.0	7588.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	41632.6	0.0	41632.6
	% Fixture	84.6	0.0	84.6
Total	Lumens	49221.3	0.0	49221.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.4	1.0
10°-20°	1931.9	3.9
20°-30°	3963.6	8.1
30°-40°	6668.5	13.5
40°-50°	9214.0	18.7
50°-60°	11501.8	23.4
60°-70°	10350.4	21.0
70°-80°	4338.8	8.8
80°-90°	758.0	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	49221.3	100.0
0°-180°	49221.3	100.0

Coefficient of Utilization



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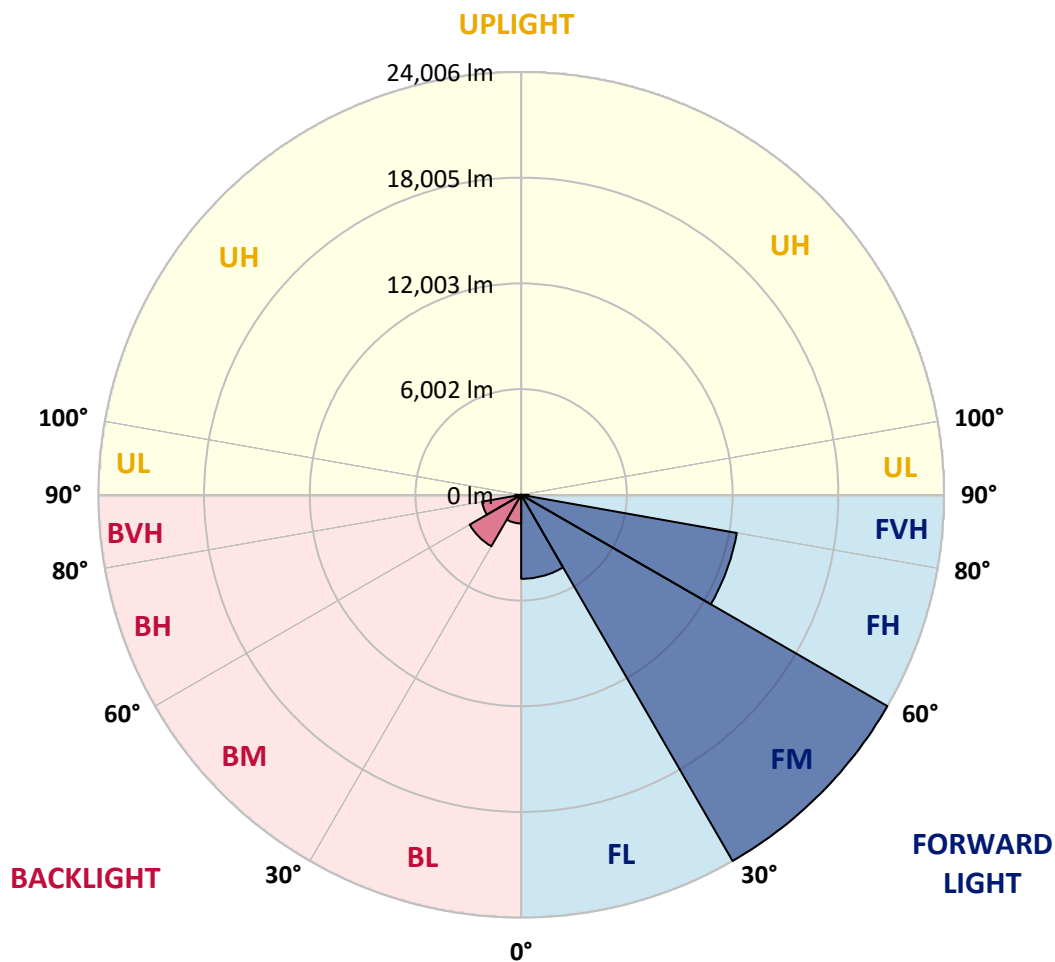
CATALOG NUMBER: GAN-AF-07-LED-U-T2R-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4766.9	9.7			
FM	(30°-60°)	24006.4	48.8			
FH	(60°-80°)	12433.1	25.3			G5
FVH	(80°-90°)	426.1	0.9			G3/500
BL	(0°-30°)	1622.9	3.3	B3/2500		
BM	(30°-60°)	3377.9	6.9	B3/5000		
BH	(60°-80°)	2256.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	331.9	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
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°	5078.8	5022.9	5036.9	4943.7	4829.6	4680.4	4515.0	4512.7	4515.0	4498.7	4438.2
5°	7042.8	6975.3	6949.6	6739.9	6432.4	5994.4	5519.1	5467.9	5446.9	5393.4	5269.9
7.5°	8475.7	8438.3	8398.7	8240.3	7960.7	7471.5	6833.1	6723.7	6618.8	6593.2	6453.4
10°	9400.5	9391.2	9307.3	9265.4	9090.7	8666.6	8044.6	7939.7	7825.6	7786.0	7639.2
12.5°	10132.0	10129.8	10090.1	10101.7	9950.3	9642.8	9107.0	9011.5	8927.6	8806.5	8701.6
15°	10637.7	10639.9	10698.2	10763.4	10740.2	10532.8	10029.5	9987.6	9915.4	9831.5	9708.0
17.5°	11052.3	11063.9	11124.5	11243.4	11371.5	11355.2	10956.8	10921.8	10858.9	10744.8	10679.6
20°	11988.9	12033.2	11916.7	11916.7	11930.7	11993.5	11802.5	11774.6	11686.0	11625.4	11574.2
22.5°	13570.8	13622.0	13358.7	13090.8	12827.6	12636.5	12445.5	12480.4	12419.9	12377.9	12347.6
25°	15625.6	15665.3	15238.9	14786.9	14251.0	13552.2	13079.2	13058.3	13025.6	13000.0	12986.1
27.5°	17559.3	17575.6	17172.6	16510.9	15888.9	14884.8	13722.2	13696.6	13657.0	13608.0	13566.1
30°	19213.4	19208.8	18794.1	18162.7	17496.3	16385.1	14698.4	14619.2	14502.7	14369.9	14267.4
32.5°	20646.2	20639.3	20185.0	19530.3	18831.3	17871.5	16035.7	15872.5	15690.8	15432.2	15276.1
35°	21773.8	21769.1	21340.5	20657.9	19856.4	19271.7	17568.6	17368.3	17137.6	16790.5	16550.5
37.5°	22200.2	22200.2	21960.2	21494.2	20786.0	20385.3	19271.7	19029.3	18782.4	18388.7	18118.4
40°	21950.9	21955.5	22006.7	21920.6	21575.8	21268.3	20860.5	20716.1	20504.1	20150.0	19868.1
42.5°	21114.5	21140.1	21480.2	21897.3	22069.7	22020.8	22270.0	22204.8	22055.7	21783.1	21559.5
45°	20054.4	20133.6	20506.4	21293.8	22207.1	22670.7	23451.2	23458.2	23430.3	23283.5	23111.1
47.5°	18598.4	18710.2	19201.8	20266.5	21885.6	23302.1	24651.1	24714.0	24772.2	24676.6	24597.5
50°	16664.7	16797.5	17533.7	18945.5	21230.9	23956.8	26917.9	27202.1	27467.7	27435.1	27488.6
52.5°	14593.5	14749.6	15651.2	17223.8	20105.7	24108.2	28367.0	28830.6	29294.2	29674.0	30077.0
55°	12725.1	12641.2	13542.8	15199.3	18255.9	23425.6	29669.4	30228.5	30745.7	31211.6	31691.5
57.5°	10192.7	10330.1	11234.0	12871.9	15807.4	21498.9	30566.3	31384.0	32127.2	32898.3	33578.7
60°	7450.6	7587.9	8568.8	10232.3	13149.1	18577.4	29881.3	31120.7	32311.2	33492.4	34415.0
62.5°	4498.7	4601.2	5465.6	7049.8	10139.1	15113.1	26829.3	28455.5	30207.5	31619.3	33033.4
65°	2800.3	2858.6	3177.8	4049.1	6511.6	11282.9	21920.6	23693.5	25580.6	27372.2	28842.3
67.5°	2292.4	2313.4	2371.7	2558.1	3576.1	7357.4	16315.2	17885.5	19588.5	21321.9	22957.4
70°	2061.9	2047.8	2047.8	2059.5	2292.4	3956.0	10681.9	11704.6	13123.4	14630.9	16126.5
72.5°	1861.5	1847.4	1821.9	1786.9	1870.8	2413.7	5521.5	6292.7	7315.4	8655.0	10087.8
75°	1672.7	1654.1	1623.8	1579.5	1637.8	1821.9	2651.3	2975.0	3473.6	4186.5	4985.7
77.5°	1477.0	1453.7	1425.8	1393.2	1467.7	1416.5	1554.0	1670.5	1861.5	2089.8	2390.3
80°	1255.8	1234.8	1225.5	1209.1	1297.7	1078.7	1097.3	1169.5	1281.3	1404.8	1544.7
82.5°	983.2	983.2	1020.4	1027.5	1125.2	775.8	820.1	883.0	941.2	1006.5	1071.6
85°	647.6	652.3	778.2	827.1	887.6	521.9	615.1	636.1	682.6	719.9	747.9
87.5°	202.6	219.0	475.3	526.5	510.2	295.8	377.5	386.8	419.3	445.0	468.3
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
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°	4438.2	4410.2	4384.6	4382.2	4363.6	4338.0	4347.3	4307.7	4310.0	4289.0	4265.8
5°	5218.6	5200.0	5106.8	5081.2	5011.3	4967.0	4960.0	4866.8	4855.2	4801.6	4743.3
7.5°	6341.6	6281.0	6150.5	6087.6	5968.8	5880.2	5838.4	5714.8	5654.3	5514.5	5451.6
10°	7518.1	7441.3	7280.4	7192.0	7077.8	6935.6	6858.8	6679.4	6609.5	6481.3	6327.6
12.5°	8608.4	8531.5	8366.1	8298.6	8147.1	7995.7	7911.8	7709.2	7618.2	7413.2	7292.1
15°	9617.2	9540.3	9395.9	9325.9	9174.5	9051.1	8939.3	8738.9	8631.7	8440.7	8282.2
17.5°	10595.7	10514.2	10388.4	10325.5	10178.7	10052.8	9931.7	9743.0	9633.5	9442.4	9300.4
20°	11504.3	11443.8	11352.8	11269.0	11122.2	11008.1	10863.6	10700.5	10542.1	10402.3	10267.2
22.5°	12296.4	12273.1	12175.3	12138.0	12012.2	11914.3	11788.5	11627.8	11513.6	11336.5	11210.7
25°	12979.0	12972.0	12925.4	12913.8	12825.2	12732.1	12704.1	12571.3	12466.5	12310.4	12179.9
27.5°	13566.1	13573.1	13561.5	13594.1	13570.8	13528.8	13531.2	13486.9	13426.3	13295.9	13181.7
30°	14218.4	14181.2	14202.1	14248.7	14262.7	14267.4	14344.2	14369.9	14365.2	14279.1	14223.1
32.5°	15141.0	15052.5	14971.0	14963.9	15010.6	15029.2	15159.6	15227.2	15285.4	15306.4	15315.7
35°	16317.5	16140.5	15970.4	15879.6	15800.3	15821.3	15914.5	16024.0	16152.1	16240.7	16345.5
37.5°	17799.2	17582.6	17282.0	17067.7	17014.1	16897.6	16958.2	17044.4	17170.2	17307.7	17489.4
40°	19595.5	19267.0	18929.2	18644.9	18491.2	18276.9	18274.5	18258.2	18335.1	18463.2	18719.5
42.5°	21324.1	21033.0	20674.1	20376.0	20175.6	19889.0	19830.8	19679.3	19714.3	19826.1	20075.4
45°	22943.4	22703.4	22484.4	22139.6	21969.5	21659.7	21561.8	21382.4	21282.2	21333.4	21582.7
47.5°	24511.2	24357.5	24129.2	23905.5	23775.0	23497.8	23372.0	23243.9	23115.7	23111.1	23372.0
50°	27567.9	27486.4	27216.1	26983.1	27046.0	26705.9	26726.8	26382.0	26538.1	26556.8	27104.3
52.5°	30440.5	30724.7	30925.0	31169.7	31328.1	31358.4	31463.2	31619.3	31808.0	32180.8	32688.7
55°	32085.3	32441.8	32649.1	32835.4	33143.0	33208.2	33383.0	33590.3	33755.7	34175.0	34606.0
57.5°	34039.9	34701.6	35023.1	35318.9	35733.6	35892.1	36183.3	36409.3	36623.6	37119.8	37641.7
60°	35244.4	36050.5	36705.1	37173.4	37693.0	38065.7	38506.0	38860.2	39363.4	39957.5	40735.6
62.5°	34286.9	35470.4	36339.4	37143.1	37849.1	38562.0	39193.3	39855.0	40619.1	41518.4	42725.2
65°	30473.1	31677.5	33166.3	34000.3	34934.6	36034.2	36994.0	38065.7	39107.1	40416.5	42201.0
67.5°	24532.2	25932.4	27605.1	28446.2	29520.2	30748.0	31824.3	33133.7	34349.8	35936.4	38142.6
70°	17682.7	19492.9	20900.1	21778.4	23031.8	24296.9	25336.0	26859.6	27866.1	29492.3	31773.1
72.5°	11196.8	12624.8	14348.9	15455.6	16569.1	17850.5	18912.9	20226.8	21165.8	22647.4	24714.0
75°	6020.1	7073.1	8587.5	9638.1	10831.0	11926.0	13170.1	14050.7	14744.9	15916.8	17594.2
77.5°	2821.3	3462.0	4228.5	5036.9	5845.3	6688.7	7508.8	8221.7	8519.9	9190.8	10181.0
80°	1712.3	1919.7	2143.4	2392.7	2730.5	3003.1	3364.2	3625.1	3643.8	3855.7	4158.6
82.5°	1143.9	1220.8	1288.3	1351.2	1437.5	1505.0	1581.9	1672.7	1710.1	1759.0	1856.8
85°	780.5	817.7	831.8	871.3	862.0	885.3	915.5	945.9	962.2	959.8	1004.1
87.5°	480.0	498.6	507.9	517.2	510.2	500.9	514.9	531.2	535.8	521.9	526.5
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
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°	4270.4	4249.4	4228.5	4214.6	4209.9	4086.4	4032.8	3997.8	3923.3	3862.8	3813.8
5°	4710.8	4666.5	4631.5	4589.6	4566.4	4254.1	4140.0	4060.7	3930.3	3853.4	3783.5
7.5°	5419.0	5295.5	5223.3	5141.8	5071.9	4508.0	4319.3	4195.8	4014.2	3911.7	3832.4
10°	6222.7	6094.6	5980.5	5854.7	5745.2	4845.9	4571.0	4380.0	4140.0	4007.2	3902.4
12.5°	7119.7	6993.9	6849.5	6688.7	6548.9	5274.5	4892.5	4619.9	4291.4	4114.3	3967.5
15°	8179.7	7958.5	7783.6	7597.3	7434.2	5787.1	5267.6	4890.1	4452.2	4212.2	4016.5
17.5°	9165.2	8932.2	8694.6	8531.5	8342.8	6362.5	5644.9	5165.1	4585.0	4275.1	4025.8
20°	10127.4	9873.4	9668.4	9449.4	9251.5	6958.9	6048.0	5407.3	4671.1	4277.4	3967.5
22.5°	10975.4	10817.0	10588.7	10351.0	10150.7	7555.4	6425.5	5612.3	4703.7	4223.9	3865.0
25°	11940.0	11772.2	11492.6	11292.3	11068.6	8163.5	6795.9	5770.8	4685.1	4123.6	3706.7
27.5°	12969.7	12783.3	12496.8	12287.1	12016.8	8794.8	7136.0	5884.9	4615.2	3960.6	3494.6
30°	14043.7	13873.7	13591.7	13379.7	13107.2	9463.4	7515.7	5961.9	4475.4	3734.6	3247.7
32.5°	15197.0	15054.9	14775.3	14553.9	14262.7	10188.0	7869.9	5985.1	4263.5	3466.7	2986.7
35°	16291.9	16194.0	15958.7	15751.4	15448.5	10872.9	8245.0	5973.4	4011.8	3173.1	2749.1
37.5°	17524.4	17466.1	17349.7	17086.3	16715.9	11802.5	8694.6	5924.5	3704.3	2881.9	2567.4
40°	18838.4	18843.0	18717.1	18537.8	18193.0	12930.1	9230.5	5829.0	3368.8	2625.6	2402.0
42.5°	20229.2	20301.4	20240.8	20112.7	19781.9	14067.0	9871.2	5712.6	3042.7	2376.3	2238.9
45°	21822.7	21911.3	22004.5	21815.8	21494.2	15567.4	10714.5	5561.1	2690.9	2169.0	2127.0
47.5°	23660.9	23800.7	23884.6	23886.9	23565.4	17426.5	12084.4	5470.2	2378.7	2029.2	2073.5
50°	27539.9	27584.2	27782.2	28127.1	27880.1	21729.5	14477.0	5414.4	2166.7	1943.0	2033.8
52.5°	33129.0	33615.9	33958.4	33935.1	33599.6	24462.3	15795.7	5125.4	2040.9	1910.4	2015.2
55°	35405.1	36013.2	36646.9	36814.7	36553.7	26794.5	17042.1	4836.5	1980.3	1933.7	2022.2
57.5°	38438.5	39463.6	40332.6	40698.3	40320.9	29778.8	18682.3	4685.1	1961.6	1996.6	2066.5
60°	41982.0	43249.4	44391.0	45048.0	45048.0	33208.2	20382.9	4622.2	1936.0	2089.8	2141.0
62.5°	44258.2	46119.6	47843.7	48805.8	48777.9	35596.2	21137.7	4407.9	1877.7	2155.1	2243.5
65°	44267.5	46480.7	48677.7	49758.7	49814.6	35302.6	19891.4	3893.0	1770.6	2164.4	2346.0
67.5°	40577.2	42937.2	45497.6	46706.7	46986.3	32497.6	17219.1	3201.1	1595.9	2071.2	2383.4
70°	34270.6	36574.7	39188.6	40376.8	40873.0	27703.0	13869.0	2467.2	1372.2	1866.2	2306.4
72.5°	26999.5	29259.3	31078.8	31947.8	32334.6	21175.1	10099.5	1863.8	1125.2	1572.6	2099.1
75°	19115.6	20811.6	21778.4	21971.9	22032.4	12764.7	6136.6	1386.2	927.2	1223.1	1773.0
77.5°	10789.1	11516.0	11436.7	11522.9	10805.3	4927.5	2672.3	992.5	764.1	929.6	1374.5
80°	4212.2	4342.6	4079.4	3997.8	3667.0	1833.5	1178.8	691.9	610.4	703.6	962.2
82.5°	1856.8	1917.4	1861.5	1875.5	1793.9	945.9	705.9	500.9	466.0	514.9	638.3
85°	1022.7	1041.4	1036.8	1067.0	1022.7	377.5	335.5	307.5	326.1	349.4	410.0
87.5°	498.6	503.2	486.9	512.5	496.2	191.1	165.4	174.7	191.1	195.7	195.7
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):

	135°	145°	155°	165°	175°	180°
0°	4000.1	4000.1	4000.1	4000.1	4000.1	4000.1
2.5°	3778.9	3760.2	3762.5	3757.9	3748.6	3748.6
5°	3746.3	3727.6	3727.6	3722.9	3711.3	3713.6
7.5°	3778.9	3748.6	3736.9	3720.6	3704.3	3704.3
10°	3816.1	3762.5	3729.9	3702.0	3681.0	3681.0
12.5°	3844.0	3760.2	3706.7	3669.3	3648.4	3648.4
15°	3853.4	3743.9	3669.3	3625.1	3606.4	3604.2
17.5°	3823.1	3681.0	3590.1	3538.9	3515.6	3508.6
20°	3729.9	3566.8	3457.4	3399.1	3366.5	3354.9
22.5°	3590.1	3403.8	3275.6	3215.0	3173.1	3166.1
25°	3394.5	3194.1	3068.2	3010.0	2986.7	2979.8
27.5°	3166.1	2979.8	2872.5	2835.3	2814.3	2812.0
30°	2949.5	2791.0	2711.8	2683.9	2658.2	2653.5
32.5°	2746.7	2646.6	2616.3	2576.7	2516.2	2509.1
35°	2602.3	2593.0	2572.0	2483.5	2408.9	2388.0
37.5°	2513.8	2600.0	2492.8	2318.1	2264.5	2259.9
40°	2462.5	2527.8	2343.7	2283.1	2287.8	2283.1
42.5°	2346.0	2413.7	2348.4	2320.5	2339.1	2343.7
45°	2229.5	2304.1	2383.4	2364.7	2408.9	2408.9
47.5°	2164.4	2276.2	2381.0	2381.0	2446.3	2469.5
50°	2089.8	2252.8	2343.7	2376.3	2427.6	2408.9
52.5°	2085.1	2213.3	2290.2	2348.4	2371.7	2350.7
55°	2092.1	2180.6	2236.6	2301.7	2329.8	2332.1
57.5°	2101.4	2162.0	2199.2	2229.5	2313.4	2313.4
60°	2124.8	2145.7	2166.7	2183.0	2292.4	2294.8
62.5°	2162.0	2129.4	2124.8	2141.0	2280.8	2271.5
65°	2220.2	2106.1	2071.2	2087.4	2269.2	2241.2
67.5°	2299.5	2071.2	2003.6	2015.2	2259.9	2199.2
70°	2371.7	2015.2	1919.7	1908.1	2171.3	2064.1
72.5°	2378.7	1949.9	1803.3	1768.3	1887.1	1784.5
75°	2262.2	1905.8	1675.1	1572.6	1558.6	1544.7
77.5°	2038.5	1880.1	1525.9	1365.2	1337.3	1346.6
80°	1705.4	1784.5	1346.6	1155.5	1307.0	1290.7
82.5°	1274.4	1574.9	1143.9	1022.7	1020.4	901.6
85°	708.3	1227.7	931.9	766.5	533.5	517.2
87.5°	198.0	682.6	652.3	433.3	295.8	307.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)