

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: P301652

Luminaire Tested: **GAA-AF-06-LED-U-T2R-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194759)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-06-LED-U-T2R-8030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24365.7 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 249
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

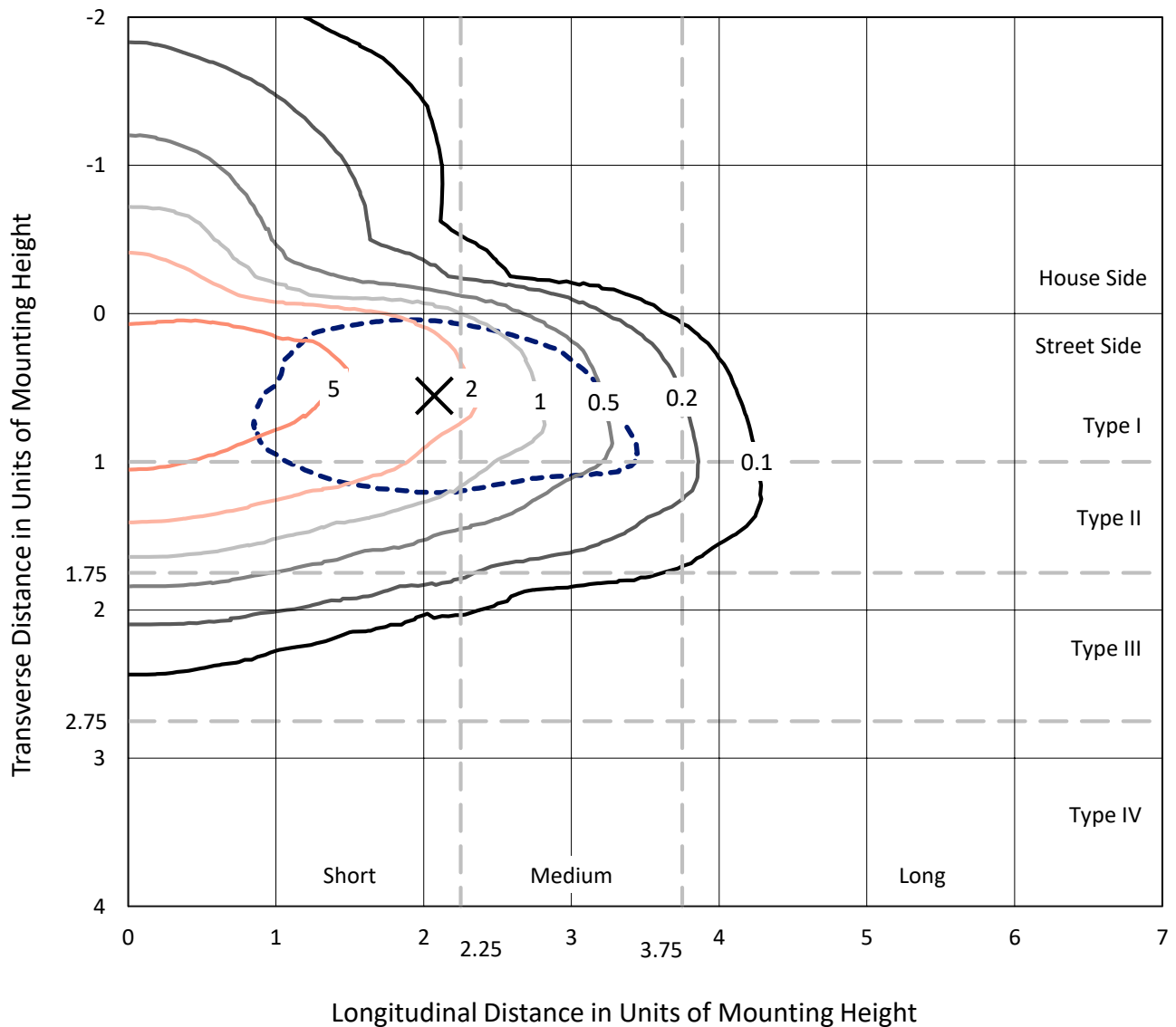


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Iso-Footcandle Lines of Horizontal Illumination

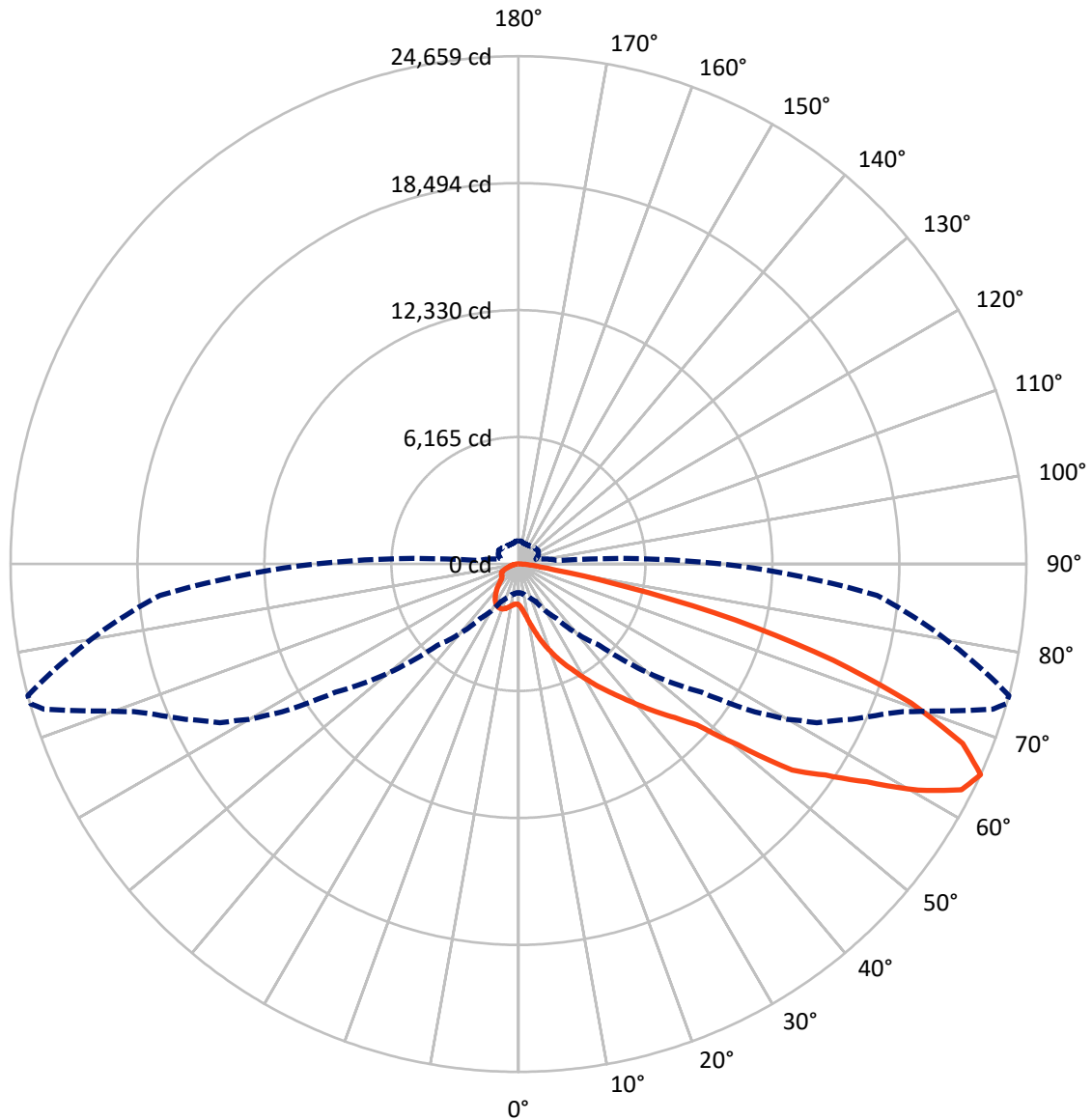
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	3756.6	0.0	3756.6
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	20609.1	0.0	20609.1
	% Fixture	84.6	0.0	84.6
Total	Lumens	24365.7	0.0	24365.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.8	1.0
10°-20°	956.3	3.9
20°-30°	1962.1	8.1
30°-40°	3301.1	13.5
40°-50°	4561.1	18.7
50°-60°	5693.7	23.4
60°-70°	5123.7	21.0
70°-80°	2147.8	8.8
80°-90°	375.2	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°	24365.7	100.0
0°-180°	24365.7	100.0

Coefficient of Utilization



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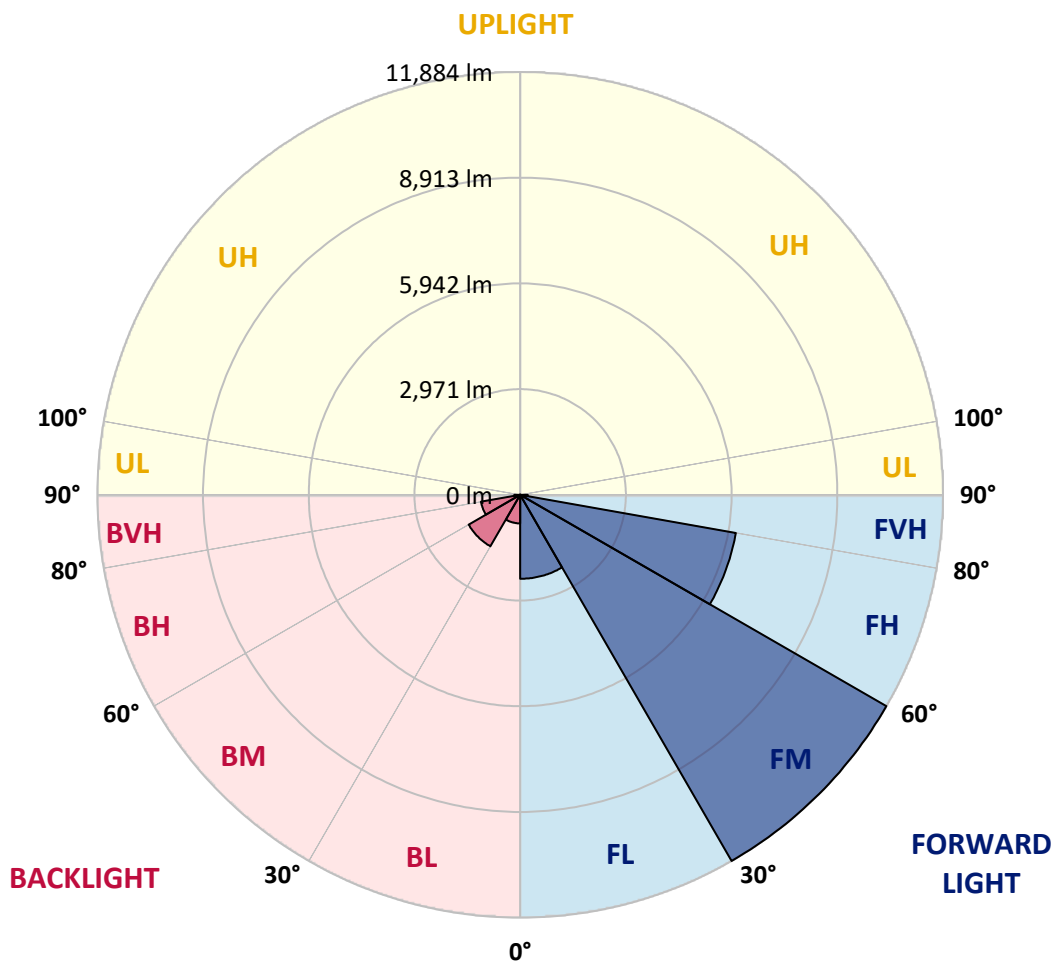
CATALOG NUMBER: GAA-AF-06-LED-U-T2R-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2359.7	9.7			
FM	(30°-60°)	11883.7	48.8			
FH	(60°-80°)	6154.7	25.3			G3/7500
FVH	(80°-90°)	210.9	0.9			G2/225
BL	(0°-30°)	803.4	3.3	B2/1000		
BM	(30°-60°)	1672.1	6.9	B2/2500		
BH	(60°-80°)	1116.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	164.3	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2
2.5°	2514.2	2486.5	2493.4	2447.2	2390.7	2316.8	2235.1	2234.0	2235.1	2226.9	2197.1
5°	3486.2	3453.0	3440.3	3336.3	3184.1	2967.5	2732.2	2706.8	2696.2	2669.9	2608.7
7.5°	4195.7	4177.3	4157.4	4079.1	3940.9	3698.6	3382.5	3328.5	3276.5	3263.8	3194.7
10°	4653.5	4648.7	4607.3	4586.4	4500.2	4290.2	3982.3	3930.3	3873.8	3854.3	3781.4
12.5°	5015.5	5014.4	4994.9	5000.7	4925.5	4773.6	4508.1	4460.9	4419.5	4359.3	4307.6
15°	5265.9	5266.9	5296.0	5328.2	5316.5	5213.9	4964.8	4944.0	4908.4	4867.0	4805.7
17.5°	5471.2	5477.0	5506.7	5565.6	5629.2	5621.0	5424.0	5406.5	5375.4	5318.9	5286.8
20°	5934.7	5956.6	5899.2	5899.2	5906.0	5937.1	5842.4	5828.7	5784.9	5754.8	5729.5
22.5°	6717.8	6743.2	6612.8	6480.4	6350.1	6255.3	6160.9	6178.0	6148.2	6127.3	6112.3
25°	7735.0	7754.8	7543.7	7320.0	7054.5	6708.6	6474.6	6464.0	6447.9	6435.3	6428.4
27.5°	8692.2	8700.4	8501.0	8173.2	7865.3	7368.2	6792.8	6780.1	6760.6	6736.3	6715.4
30°	9511.2	9508.8	9303.6	8990.9	8661.1	8111.0	7276.2	7236.8	7179.0	7113.3	7062.7
32.5°	10220.5	10217.0	9991.9	9667.9	9322.1	8846.8	7938.2	7857.4	7767.5	7639.2	7562.2
35°	10778.5	10776.4	10563.9	10226.3	9829.4	9540.0	8697.0	8597.8	8483.5	8311.8	8193.1
37.5°	10989.5	10989.5	10870.8	10640.2	10289.6	10091.1	9540.0	9419.9	9297.8	9102.8	8969.0
40°	10866.0	10868.4	10893.7	10851.3	10680.6	10528.4	10326.5	10255.0	10150.0	9974.8	9835.2
42.5°	10452.1	10464.7	10633.4	10839.7	10924.9	10900.9	11024.1	10991.9	10918.0	10783.2	10672.4
45°	9927.3	9966.6	10151.0	10541.0	10993.0	11222.5	11608.8	11612.2	11598.5	11526.0	11440.5
47.5°	9206.8	9261.8	9505.4	10032.3	10833.9	11535.2	12202.7	12233.8	12262.9	12215.7	12176.3
50°	8249.5	8315.2	8679.6	9378.5	10509.9	11859.2	13324.8	13465.8	13597.2	13581.1	13607.4
52.5°	7224.2	7301.5	7747.6	8526.3	9952.9	11934.1	14042.3	14271.8	14501.4	14689.2	14888.7
55°	6299.1	6257.7	6704.2	7523.9	9037.1	11596.1	14687.2	14963.9	15219.8	15450.4	15688.2
57.5°	5045.6	5113.6	5561.1	6372.0	7824.9	10642.3	15130.9	15536.0	15903.7	16285.5	16622.2
60°	3688.0	3756.1	4241.6	5065.1	6509.2	9196.2	14791.8	15405.6	15994.7	16579.4	17036.1
62.5°	2226.9	2277.8	2705.5	3490.0	5019.2	7481.5	13281.0	14086.1	14953.3	15652.3	16352.2
65°	1386.3	1415.0	1573.1	2004.5	3223.4	5585.4	10851.3	11728.9	12662.8	13550.0	14277.6
67.5°	1134.8	1145.1	1174.2	1266.2	1770.1	3642.2	8076.4	8853.7	9696.7	10554.7	11364.5
70°	1020.5	1013.7	1013.7	1019.5	1134.8	1958.3	5287.8	5794.1	6496.5	7242.7	7983.0
72.5°	921.3	914.5	901.8	884.7	926.1	1194.7	2733.2	3115.0	3621.3	4284.4	4993.6
75°	827.9	818.7	804.0	782.1	810.8	901.8	1312.4	1472.8	1719.5	2072.6	2468.0
77.5°	731.1	719.5	705.8	689.7	726.7	701.3	769.1	826.9	921.3	1034.6	1183.4
80°	621.6	611.4	606.6	598.7	642.5	534.0	543.3	578.9	634.3	695.5	764.6
82.5°	486.8	486.8	505.0	508.7	557.0	384.2	406.1	437.2	466.0	498.1	530.6
85°	320.6	323.0	385.2	409.5	439.3	258.3	304.5	314.7	338.0	356.5	370.2
87.5°	100.2	108.5	235.4	260.7	252.5	146.4	186.8	191.6	207.7	220.3	232.0
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2
2.5°	2197.1	2183.1	2170.4	2169.4	2160.1	2147.5	2151.9	2132.4	2133.5	2123.2	2111.6
5°	2583.3	2574.1	2527.9	2515.3	2480.7	2458.8	2455.4	2409.2	2403.4	2377.0	2348.0
7.5°	3139.3	3109.2	3044.5	3013.4	2954.5	2910.7	2890.2	2829.0	2798.9	2729.8	2698.6
10°	3721.6	3683.6	3603.9	3560.1	3503.6	3433.2	3395.2	3306.6	3271.7	3208.4	3132.4
12.5°	4261.4	4223.5	4141.3	4107.8	4032.9	3958.0	3916.6	3816.3	3771.2	3669.6	3609.7
15°	4760.6	4722.6	4651.1	4616.6	4541.6	4480.4	4425.0	4326.1	4273.1	4178.3	4100.0
17.5°	5245.0	5204.7	5142.4	5111.3	5038.7	4976.5	4916.6	4822.8	4768.8	4674.4	4603.9
20°	5694.9	5664.8	5620.0	5578.2	5505.7	5449.3	5377.8	5297.0	5218.7	5149.2	5082.5
22.5°	6087.0	6075.3	6027.1	6008.6	5946.4	5897.8	5835.5	5756.1	5699.4	5611.8	5549.5
25°	6425.0	6421.6	6398.3	6392.5	6348.7	6302.5	6288.8	6223.1	6171.1	6093.8	6029.5
27.5°	6715.4	6718.9	6713.4	6729.5	6717.8	6697.0	6698.3	6676.4	6646.3	6581.7	6525.2
30°	7038.4	7019.9	7030.5	7053.5	7060.3	7062.7	7100.7	7113.3	7111.3	7068.5	7040.8
32.5°	7495.1	7451.3	7411.0	7407.6	7430.5	7439.7	7504.4	7537.9	7566.6	7576.9	7581.7
35°	8077.4	7989.8	7905.7	7860.9	7821.5	7831.8	7878.0	7932.4	7995.7	8039.4	8091.4
37.5°	8810.9	8703.8	8555.0	8449.0	8422.3	8364.8	8394.6	8437.3	8499.6	8567.7	8657.7
40°	9700.1	9537.6	9370.3	9229.7	9153.7	9047.3	9046.3	9038.1	9076.4	9139.7	9266.6
42.5°	10556.1	10411.7	10234.1	10086.7	9987.5	9845.5	9816.8	9741.8	9758.9	9814.4	9937.9
45°	11357.3	11238.6	11130.1	10959.8	10875.3	10722.0	10673.4	10584.8	10535.2	10560.5	10684.0
47.5°	12133.6	12057.6	11944.4	11833.9	11769.2	11632.0	11569.8	11506.1	11442.8	11440.5	11569.8
50°	13646.8	13606.4	13472.6	13357.3	13388.5	13220.2	13230.4	13059.7	13137.0	13146.3	13417.2
52.5°	15068.6	15209.6	15308.8	15429.6	15508.2	15523.3	15575.0	15652.3	15745.7	15930.1	16181.5
55°	15882.9	16059.4	16162.0	16254.4	16406.6	16438.8	16525.4	16628.0	16709.8	16917.4	17130.9
57.5°	16850.7	17178.1	17337.2	17483.6	17688.9	17767.3	17911.6	18023.5	18129.6	18375.2	18633.5
60°	17446.7	17845.9	18169.9	18401.5	18658.8	18843.6	19061.5	19236.7	19485.7	19779.9	20165.2
62.5°	16972.9	17558.6	17988.9	18386.8	18736.1	19089.2	19401.6	19729.3	20107.3	20552.4	21150.1
65°	15085.0	15681.0	16417.9	16830.9	17293.4	17837.7	18312.9	18843.6	19358.8	20007.1	20890.5
67.5°	12144.2	12837.0	13665.2	14081.6	14613.3	15220.9	15753.9	16401.9	17004.0	17789.1	18881.5
70°	8753.4	9649.5	10346.0	10780.8	11401.4	12027.5	12542.1	13296.1	13794.2	14599.2	15728.6
72.5°	5542.7	6249.5	7103.1	7650.8	8202.0	8836.6	9362.4	10012.8	10477.4	11210.9	12233.8
75°	2980.2	3501.2	4250.8	4771.2	5361.7	5903.6	6519.4	6955.3	7299.1	7879.3	8709.7
77.5°	1396.5	1713.7	2093.1	2493.4	2893.6	3311.0	3717.1	4069.8	4217.6	4549.8	5039.8
80°	847.8	950.4	1060.9	1184.4	1351.7	1486.5	1665.4	1794.4	1803.6	1908.7	2058.5
82.5°	566.2	604.2	637.7	668.8	711.6	745.1	783.1	827.9	846.4	870.7	919.3
85°	386.3	404.7	411.6	431.4	426.6	438.3	453.3	468.4	476.2	475.2	497.1
87.5°	237.4	246.7	251.5	255.9	252.5	248.0	254.9	263.1	265.1	258.3	260.7
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2
2.5°	2114.0	2103.7	2093.1	2086.2	2083.8	2022.9	1996.3	1979.2	1942.2	1912.1	1887.8
5°	2331.9	2310.0	2292.9	2272.0	2260.4	2105.7	2049.3	2010.3	1945.6	1907.7	1872.8
7.5°	2682.6	2621.3	2585.7	2545.4	2510.8	2231.6	2138.2	2077.0	1987.0	1936.4	1897.0
10°	3080.4	3017.1	2960.4	2898.1	2844.0	2398.9	2262.8	2168.0	2049.3	1983.6	1931.6
12.5°	3524.5	3462.2	3390.7	3311.0	3241.9	2611.1	2421.9	2287.1	2124.2	2036.6	1964.1
15°	4049.3	3939.5	3852.9	3760.9	3680.2	2864.9	2607.6	2420.8	2203.9	2085.2	1988.4
17.5°	4536.8	4421.5	4304.2	4223.5	4130.1	3149.5	2794.4	2556.7	2269.6	2116.3	1992.8
20°	5013.4	4887.5	4786.2	4677.8	4579.6	3444.8	2993.9	2676.7	2312.4	2117.4	1964.1
22.5°	5433.2	5354.5	5241.6	5123.9	5024.7	3740.0	3180.7	2778.3	2328.5	2091.0	1913.1
25°	5910.4	5827.7	5689.1	5589.9	5479.4	4041.1	3364.1	2856.7	2319.2	2041.4	1834.8
27.5°	6420.2	6328.2	6186.2	6082.5	5948.8	4353.5	3532.4	2913.1	2284.7	1960.7	1729.8
30°	6951.9	6867.7	6728.1	6623.4	6488.3	4684.6	3720.5	2951.1	2215.6	1848.8	1607.6
32.5°	7522.8	7452.4	7314.2	7204.7	7060.3	5043.2	3895.7	2962.7	2110.5	1716.1	1478.6
35°	8064.8	8016.5	7899.9	7797.2	7647.4	5382.2	4081.5	2956.9	1986.0	1570.7	1360.9
37.5°	8675.1	8646.0	8588.5	8458.2	8274.8	5842.4	4304.2	2932.6	1833.8	1426.6	1271.0
40°	9325.5	9327.9	9265.6	9176.7	9005.9	6400.7	4569.3	2885.4	1667.5	1299.7	1188.9
42.5°	10013.8	10049.7	10019.6	9956.3	9792.5	6963.5	4886.5	2828.0	1506.3	1176.2	1108.5
45°	10802.7	10846.5	10892.7	10799.3	10640.2	7706.2	5303.9	2753.0	1331.9	1073.6	1053.0
47.5°	11712.8	11781.9	11823.3	11824.6	11665.6	8626.5	5981.9	2707.9	1177.6	1004.5	1026.4
50°	13632.7	13655.0	13752.8	13923.5	13801.4	10756.6	7166.4	2680.2	1072.5	961.7	1006.9
52.5°	16399.5	16640.7	16810.3	16798.7	16632.4	12109.3	7819.1	2537.2	1010.3	945.6	997.6
55°	17526.4	17827.5	18141.2	18224.0	18095.0	13263.9	8436.3	2394.1	980.2	957.2	1001.0
57.5°	19028.0	19535.3	19965.7	20146.7	19959.9	14741.2	9248.2	2319.2	970.9	988.4	1022.9
60°	20782.0	21409.4	21974.6	22299.6	22299.6	16438.8	10090.1	2288.1	958.3	1034.6	1059.9
62.5°	21908.9	22830.3	23683.9	24160.1	24146.1	17620.8	10463.7	2182.0	929.5	1066.7	1110.5
65°	21913.4	23009.2	24096.4	24631.9	24659.2	17475.8	9846.9	1927.2	876.5	1071.5	1161.5
67.5°	20086.8	21254.8	22522.4	23121.1	23259.3	16087.1	8523.9	1584.7	790.0	1025.3	1180.0
70°	16964.6	18105.3	19399.2	19987.6	20233.2	13713.5	6865.3	1221.4	679.4	923.7	1141.7
72.5°	13365.2	14483.9	15384.7	15814.8	16006.4	10482.2	4999.4	922.7	557.0	778.3	1039.0
75°	9462.7	10302.2	10780.8	10876.6	10906.4	6318.9	3037.7	686.3	459.1	605.6	877.5
77.5°	5340.8	5700.7	5661.4	5704.1	5349.0	2439.3	1323.0	491.3	378.4	460.1	680.5
80°	2085.2	2149.9	2019.5	1979.2	1815.3	907.6	583.7	342.5	302.1	348.3	476.2
82.5°	919.3	949.0	921.3	928.5	888.1	468.4	349.3	248.0	230.6	254.9	316.1
85°	506.3	515.6	513.2	528.2	506.3	186.8	165.9	152.2	161.5	173.1	202.9
87.5°	246.7	249.1	241.2	253.9	245.6	94.4	81.8	86.6	94.4	96.8	96.8
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):

	135°	145°	155°	165°	175°	180°
0°	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2
2.5°	1870.7	1861.5	1862.5	1860.1	1855.7	1855.7
5°	1854.6	1845.4	1845.4	1843.0	1837.2	1838.2
7.5°	1870.7	1855.7	1849.8	1841.6	1833.8	1833.8
10°	1889.2	1862.5	1846.4	1832.7	1822.1	1822.1
12.5°	1902.9	1861.5	1834.8	1816.3	1806.0	1806.0
15°	1907.7	1853.3	1816.3	1794.4	1785.2	1784.1
17.5°	1892.6	1822.1	1777.3	1752.0	1740.4	1736.9
20°	1846.4	1765.7	1711.6	1682.5	1666.5	1660.6
22.5°	1777.3	1684.9	1621.6	1591.5	1570.7	1567.2
25°	1680.5	1581.3	1519.0	1489.9	1478.6	1474.9
27.5°	1567.2	1474.9	1421.8	1403.4	1393.1	1392.1
30°	1460.2	1381.5	1342.5	1328.4	1315.8	1313.7
32.5°	1359.6	1310.0	1295.3	1275.4	1245.7	1242.2
35°	1288.1	1283.6	1273.4	1229.2	1192.6	1182.0
37.5°	1244.3	1287.1	1234.0	1147.5	1121.1	1118.7
40°	1219.0	1251.5	1160.1	1130.4	1132.4	1130.4
42.5°	1161.5	1194.7	1162.5	1148.8	1157.7	1160.1
45°	1103.7	1140.6	1180.0	1170.7	1192.6	1192.6
47.5°	1071.5	1126.6	1178.6	1178.6	1211.1	1222.4
50°	1034.6	1115.3	1160.1	1176.2	1201.9	1192.6
52.5°	1032.2	1095.5	1133.8	1162.5	1174.2	1163.5
55°	1035.6	1079.4	1107.1	1139.6	1153.3	1154.3
57.5°	1040.4	1070.1	1088.6	1103.7	1145.1	1145.1
60°	1051.7	1062.3	1072.5	1080.8	1134.8	1135.8
62.5°	1070.1	1054.1	1051.7	1059.9	1129.0	1124.5
65°	1099.2	1042.4	1025.3	1033.2	1123.2	1109.5
67.5°	1138.2	1025.3	991.8	997.6	1118.7	1088.6
70°	1174.2	997.6	950.4	944.6	1074.9	1021.9
72.5°	1177.6	965.5	892.6	875.5	934.3	883.4
75°	1119.8	943.2	829.3	778.3	771.5	764.6
77.5°	1009.3	930.6	755.4	675.7	662.0	666.4
80°	844.3	883.4	666.4	572.0	646.9	639.1
82.5°	630.9	779.7	566.2	506.3	505.0	446.5
85°	350.7	607.9	461.2	379.4	264.1	255.9
87.5°	98.2	338.0	323.0	214.5	146.4	152.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)