

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: P301722

Luminaire Tested: **GAA-AF-08-LED-U-T2R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301722
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-08-LED-U-T2R-7027-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28344.2 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

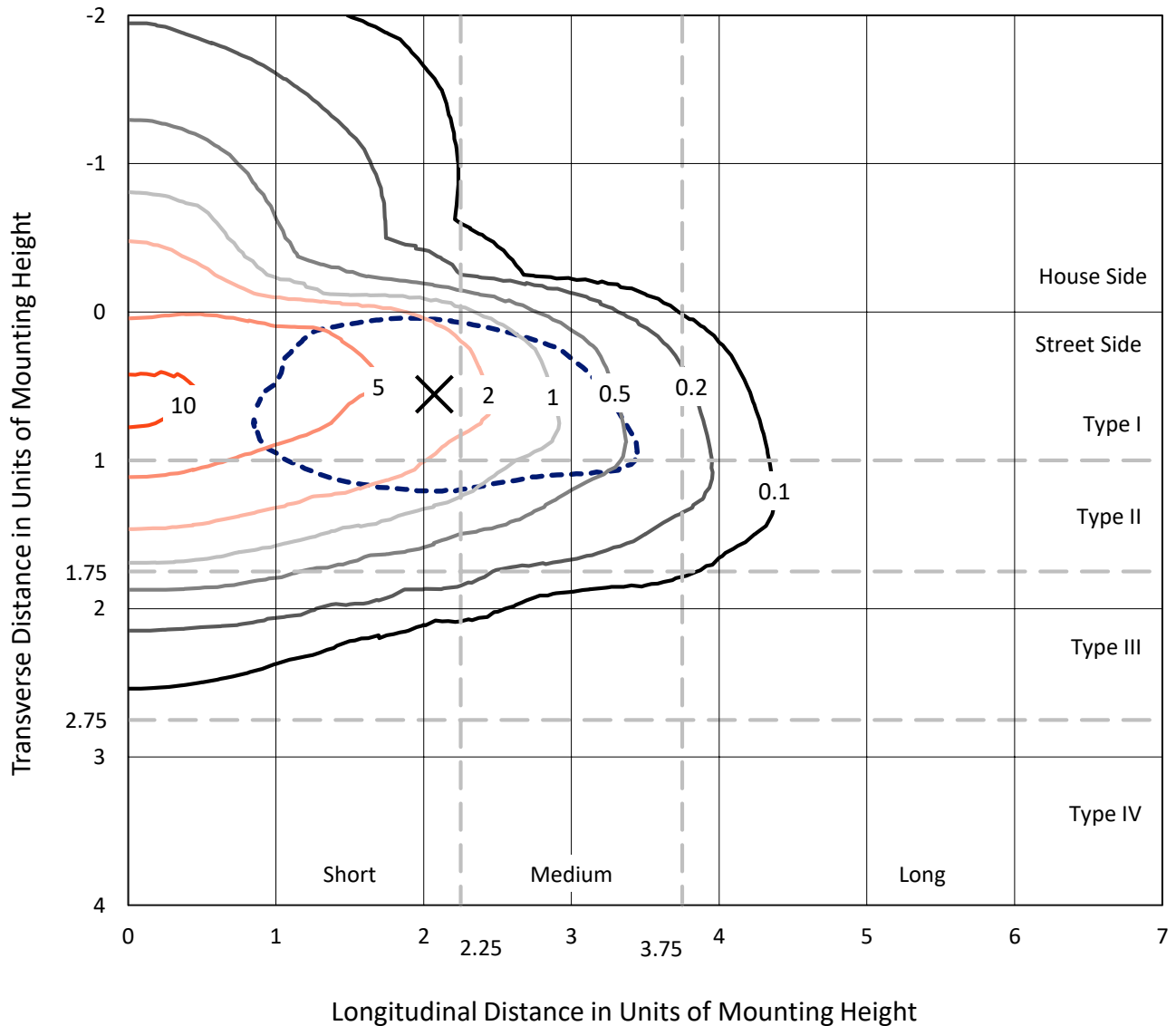
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

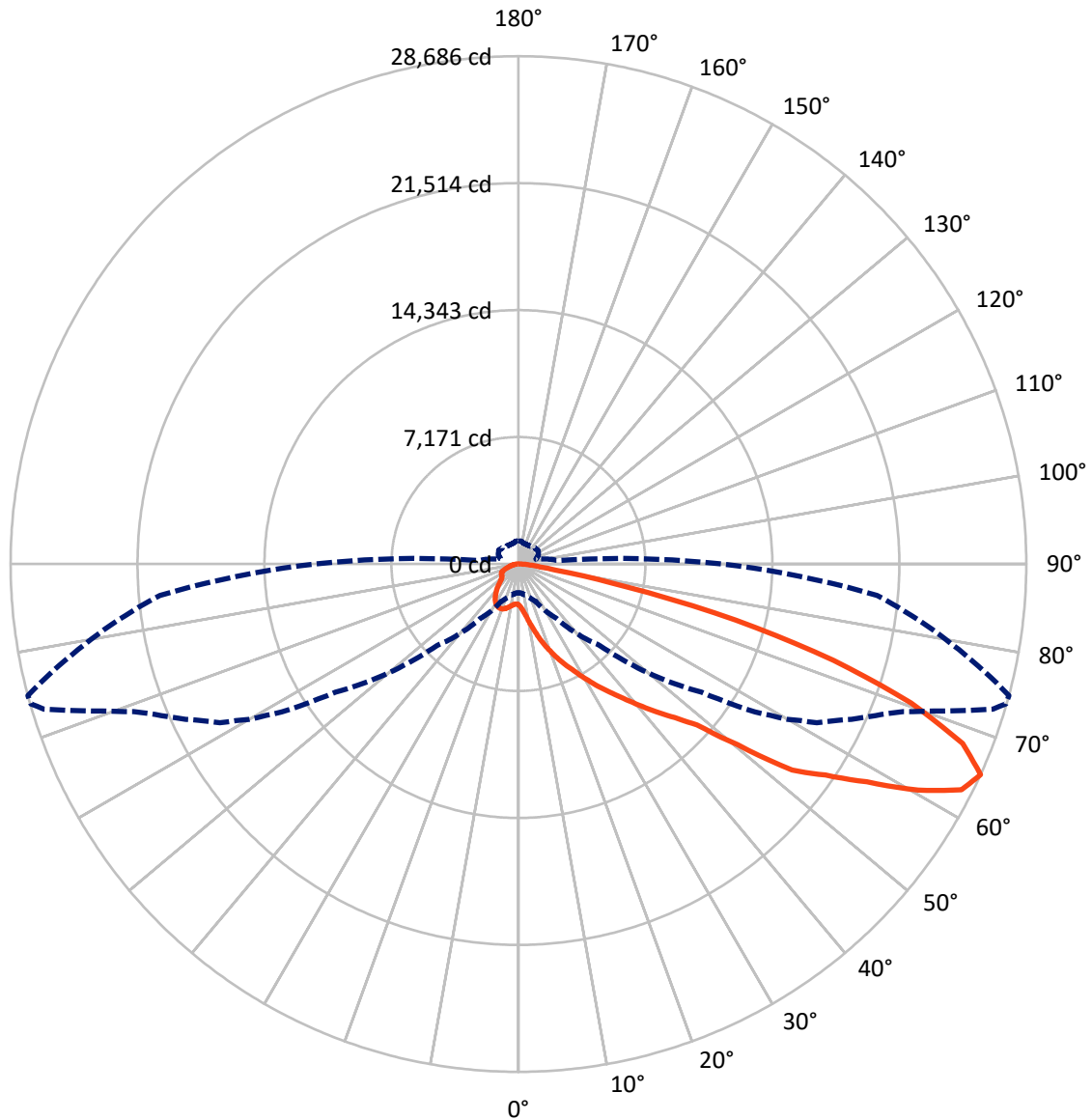
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	4370.0	0.0	4370.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	23974.2	0.0	23974.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	28344.2	0.0	28344.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.7	1.0
10°-20°	1112.5	3.9
20°-30°	2282.4	8.1
30°-40°	3840.1	13.5
40°-50°	5305.9	18.7
50°-60°	6623.3	23.4
60°-70°	5960.3	21.0
70°-80°	2498.5	8.8
80°-90°	436.5	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°	28344.2	100.0
0°-180°	28344.2	100.0

Coefficient of Utilization



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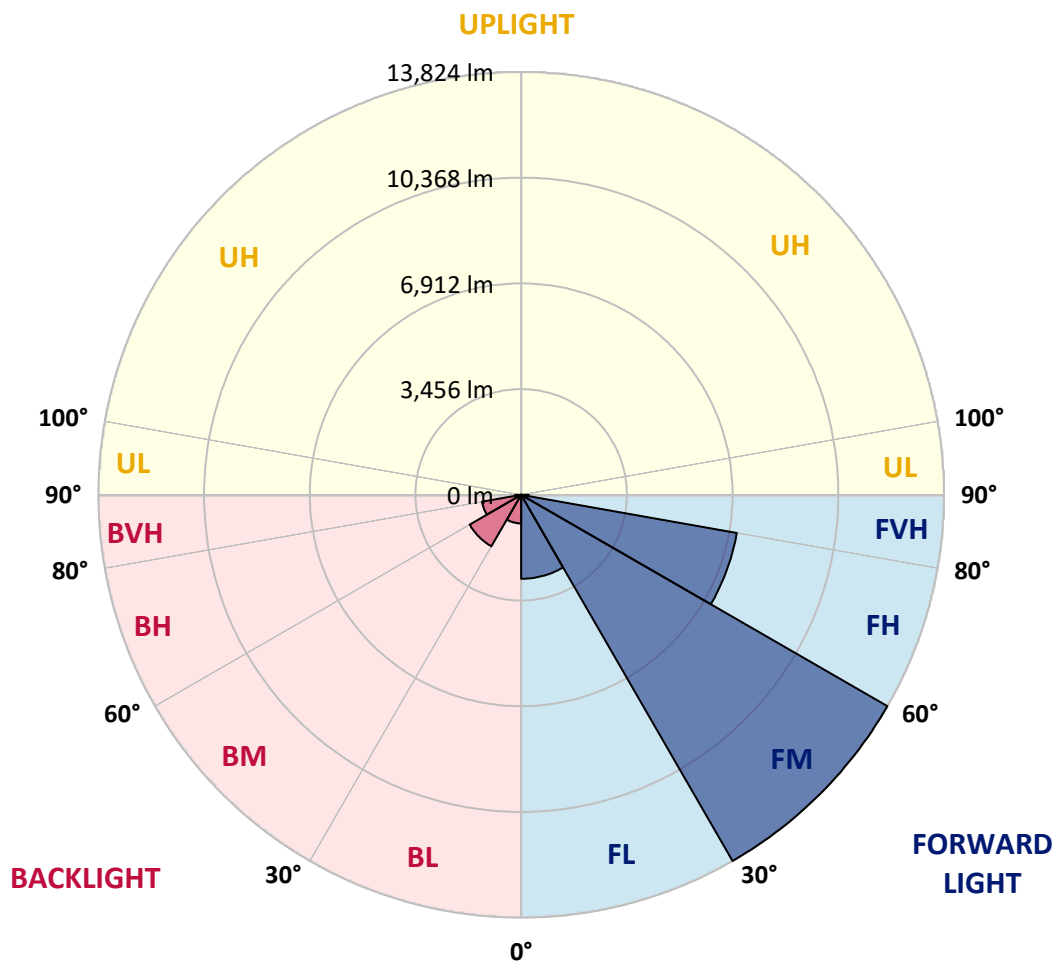
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2745.1	9.7			
FM (30°-60°)	13824.2	48.8			
FH (60°-80°)	7159.7	25.3			G3/7500
FVH (80°-90°)	245.4	0.9			G3/500
BL (0°-30°)	934.6	3.3	B2/1000		
BM (30°-60°)	1945.1	6.9	B2/2500		
BH (60°-80°)	1299.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	191.1	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°	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5
2.5°	2924.8	2892.5	2900.5	2846.8	2781.1	2695.1	2600.0	2598.8	2600.0	2590.5	2555.8
5°	4055.4	4016.8	4002.1	3881.1	3704.0	3452.1	3178.3	3148.8	3136.5	3105.8	3034.6
7.5°	4880.8	4859.3	4836.3	4745.1	4584.3	4302.6	3934.8	3872.0	3811.5	3796.7	3716.3
10°	5413.3	5407.8	5359.6	5335.3	5235.0	4990.7	4632.5	4572.0	4506.3	4483.7	4398.9
12.5°	5834.4	5833.2	5810.5	5817.3	5729.7	5553.0	5244.2	5189.3	5141.1	5071.1	5011.0
15°	6125.7	6126.9	6160.7	6198.2	6184.6	6065.2	5775.5	5751.2	5709.8	5661.7	5590.4
17.5°	6364.5	6371.3	6405.9	6474.4	6548.4	6538.8	6309.6	6289.3	6253.1	6187.4	6150.0
20°	6903.8	6929.2	6862.4	6862.4	6870.3	6906.6	6796.3	6780.4	6729.5	6694.4	6665.0
22.5°	7814.8	7844.2	7692.6	7538.6	7386.9	7276.7	7166.8	7186.7	7152.1	7127.8	7110.3
25°	8998.0	9021.0	8775.5	8515.2	8206.4	7804.0	7531.8	7519.5	7500.7	7486.0	7478.1
27.5°	10111.5	10121.1	9889.0	9507.8	9149.6	8571.3	7901.9	7887.2	7864.5	7836.2	7812.0
30°	11064.3	11061.5	10822.7	10458.9	10075.3	9435.3	8464.3	8418.5	8351.2	8274.8	8215.9
32.5°	11889.3	11885.3	11623.4	11246.5	10844.2	10291.4	9234.4	9140.4	9035.8	8886.5	8797.0
35°	12538.4	12536.0	12288.9	11896.0	11434.4	11097.7	10117.1	10001.7	9868.7	9668.9	9530.8
37.5°	12783.9	12783.9	12645.8	12377.6	11969.7	11738.8	11097.7	10958.0	10815.9	10589.1	10433.5
40°	12640.3	12643.1	12672.5	12623.2	12424.6	12247.5	12012.7	11929.5	11807.3	11603.5	11441.2
42.5°	12158.7	12173.4	12369.6	12609.6	12708.7	12680.9	12824.1	12786.7	12700.8	12544.0	12415.0
45°	11548.2	11594.0	11808.5	12262.2	12787.9	13055.0	13504.3	13508.3	13492.3	13408.0	13308.5
47.5°	10710.1	10774.1	11057.5	11670.4	12602.9	13418.7	14195.2	14231.4	14265.2	14210.3	14164.5
50°	9596.5	9672.9	10096.8	10909.9	12226.0	13795.6	15500.6	15664.5	15817.4	15798.6	15829.3
52.5°	8403.8	8493.7	9012.7	9918.5	11578.1	13882.8	16335.1	16602.2	16869.2	17087.7	17319.7
55°	7327.6	7279.5	7798.8	8752.4	10512.7	13489.6	17085.3	17407.3	17705.0	17973.2	18249.8
57.5°	5869.4	5948.6	6469.2	7412.4	9102.6	12380.0	17601.5	18072.7	18500.5	18944.7	19336.3
60°	4290.2	4369.4	4934.2	5892.1	7572.0	10697.7	17207.1	17921.1	18606.4	19286.6	19817.9
62.5°	2590.5	2649.8	3147.2	4059.8	5838.8	8703.0	15449.6	16386.1	17395.0	18208.0	19022.3
65°	1612.6	1646.0	1829.9	2331.8	3749.8	6497.4	12623.2	13644.0	14730.5	15762.4	16608.9
67.5°	1320.1	1332.0	1365.9	1472.9	2059.2	4236.9	9395.1	10299.3	11280.0	12278.1	13220.1
70°	1187.2	1179.2	1179.2	1186.0	1320.1	2278.0	6151.2	6740.2	7557.3	8425.3	9286.5
72.5°	1071.8	1063.8	1049.1	1029.2	1077.3	1389.7	3179.5	3623.6	4212.6	4983.9	5808.9
75°	963.1	952.4	935.3	909.8	943.2	1049.1	1526.7	1713.3	2000.3	2411.0	2871.0
77.5°	850.5	837.0	821.0	802.3	845.3	815.9	894.7	961.9	1071.8	1203.5	1376.6
80°	723.1	711.2	705.6	696.5	747.4	621.2	632.0	673.4	737.9	809.1	889.5
82.5°	566.3	566.3	587.4	591.8	647.9	446.9	472.4	508.6	542.1	579.5	617.3
85°	372.9	375.7	448.1	476.4	511.0	300.5	354.2	366.1	393.2	414.7	430.6
87.5°	116.6	126.2	273.8	303.3	293.7	170.3	217.3	222.9	241.6	256.3	269.8
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5
2.5°	2555.8	2539.5	2524.8	2523.6	2512.9	2498.1	2503.3	2480.6	2481.8	2469.9	2456.3
5°	3005.2	2994.4	2940.7	2926.0	2885.8	2860.3	2856.3	2802.6	2795.8	2765.2	2731.3
7.5°	3651.9	3616.9	3541.6	3505.4	3437.0	3386.0	3362.1	3290.9	3255.9	3175.5	3139.3
10°	4329.2	4285.1	4192.3	4141.4	4075.7	3993.7	3949.6	3846.5	3805.9	3732.3	3643.9
12.5°	4957.3	4913.1	4817.6	4778.6	4691.4	4604.2	4556.1	4439.5	4386.9	4268.7	4199.1
15°	5537.9	5493.7	5410.6	5370.4	5283.2	5212.0	5147.5	5032.5	4970.8	4860.5	4769.4
17.5°	6101.4	6054.5	5982.1	5945.8	5861.5	5789.0	5719.4	5610.3	5547.5	5437.6	5355.6
20°	6624.8	6589.8	6537.6	6489.1	6404.7	6339.0	6255.9	6161.9	6070.8	5990.0	5912.4
22.5°	7080.9	7067.3	7011.2	6989.7	6917.3	6860.8	6788.4	6696.0	6630.0	6528.1	6455.6
25°	7474.1	7470.1	7443.0	7436.3	7385.3	7331.6	7315.7	7239.3	7178.8	7088.8	7014.0
27.5°	7812.0	7815.9	7809.6	7828.3	7814.8	7790.5	7792.1	7766.6	7731.6	7656.4	7590.7
30°	8187.7	8166.2	8178.5	8205.2	8213.1	8215.9	8260.1	8274.8	8272.4	8222.7	8190.4
32.5°	8719.0	8668.0	8621.1	8617.1	8643.7	8654.5	8729.7	8768.7	8802.1	8814.1	8819.7
35°	9396.3	9294.4	9196.5	9144.4	9098.6	9110.6	9164.3	9227.6	9301.2	9352.2	9412.6
37.5°	10249.6	10125.0	9951.9	9828.5	9797.5	9730.6	9765.3	9815.0	9887.4	9966.6	10071.3
40°	11284.0	11094.9	10900.3	10736.7	10648.4	10524.6	10523.4	10513.9	10558.4	10632.1	10779.7
42.5°	12279.7	12111.8	11905.2	11733.7	11618.3	11453.1	11419.7	11332.5	11352.4	11416.9	11560.6
45°	13211.8	13073.7	12947.5	12749.3	12651.0	12472.7	12416.2	12313.1	12255.4	12284.9	12428.5
47.5°	14114.8	14026.4	13894.7	13766.2	13690.9	13531.4	13458.9	13384.9	13311.3	13308.5	13458.9
50°	15875.1	15828.1	15672.5	15538.4	15574.6	15378.8	15390.7	15192.1	15282.1	15292.8	15608.0
52.5°	17529.1	17693.0	17808.5	17948.9	18040.5	18058.0	18118.1	18208.0	18316.7	18531.2	18823.7
55°	18476.3	18681.6	18801.0	18908.5	19085.6	19123.0	19223.7	19343.1	19438.2	19679.8	19928.1
57.5°	19602.2	19983.0	20168.1	20338.4	20577.2	20668.3	20836.3	20966.4	21089.8	21375.6	21676.0
60°	20295.4	20759.9	21136.8	21406.2	21705.5	21920.4	22173.9	22377.7	22667.4	23009.7	23457.8
62.5°	19744.2	20425.6	20926.2	21389.1	21795.4	22206.1	22569.5	22950.8	23390.5	23908.3	24603.6
65°	17548.2	18241.5	19098.7	19579.1	20117.1	20750.3	21303.1	21920.4	22519.8	23273.9	24301.5
67.5°	14127.1	14933.0	15896.6	16380.9	16999.4	17706.2	18326.2	19080.0	19780.4	20693.8	21964.6
70°	10182.7	11225.1	12035.3	12541.2	13263.1	13991.4	14590.0	15467.1	16046.6	16983.0	18296.8
72.5°	6447.7	7269.9	8262.9	8900.0	9541.2	10279.4	10891.1	11647.7	12188.2	13041.4	14231.4
75°	3466.8	4072.9	4944.9	5550.2	6237.2	6867.6	7583.9	8091.0	8490.9	9165.9	10131.8
77.5°	1624.6	1993.5	2434.8	2900.5	3366.1	3851.7	4324.1	4734.4	4906.3	5292.7	5862.7
80°	986.2	1105.6	1234.1	1377.8	1572.4	1729.2	1937.4	2087.4	2098.2	2220.3	2394.7
82.5°	658.7	702.8	741.8	778.1	827.8	866.8	911.0	963.1	984.6	1012.9	1069.4
85°	449.3	470.8	478.8	501.9	496.3	509.8	527.3	544.8	554.0	552.8	578.3
87.5°	276.2	286.9	292.5	297.7	293.7	288.5	296.5	306.0	308.4	300.5	303.3
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5
2.5°	2459.1	2447.2	2434.8	2426.9	2424.1	2353.3	2322.2	2302.3	2259.3	2224.3	2196.1
5°	2712.6	2687.2	2667.3	2643.0	2629.5	2449.6	2383.9	2338.5	2263.3	2219.1	2178.5
7.5°	3120.6	3049.3	3007.9	2961.0	2920.8	2596.0	2487.4	2416.1	2311.5	2252.6	2206.8
10°	3583.4	3509.8	3443.7	3371.3	3308.4	2790.6	2632.2	2522.0	2383.9	2307.5	2247.0
12.5°	4100.0	4027.6	3944.4	3851.7	3771.3	3037.4	2817.3	2660.5	2471.1	2369.2	2284.8
15°	4710.5	4582.8	4482.1	4375.0	4281.1	3332.7	3033.4	2816.1	2563.8	2425.7	2313.1
17.5°	5277.6	5143.5	5007.0	4913.1	4804.4	3663.8	3250.7	2974.1	2640.2	2461.9	2318.2
20°	5832.0	5685.6	5567.8	5441.6	5327.4	4007.3	3482.7	3113.8	2690.0	2463.1	2284.8
22.5°	6320.3	6228.8	6097.5	5960.6	5845.1	4350.7	3700.0	3232.0	2708.7	2432.5	2225.5
25°	6875.5	6779.2	6618.0	6502.6	6374.1	4701.0	3913.3	3323.1	2697.9	2374.8	2134.4
27.5°	7468.5	7361.5	7196.3	7075.7	6920.1	5064.3	4109.2	3388.8	2657.7	2280.8	2012.2
30°	8087.0	7989.1	7826.7	7704.9	7547.7	5449.6	4328.0	3433.0	2577.3	2150.7	1870.1
32.5°	8751.2	8669.2	8508.4	8381.1	8213.1	5866.6	4531.8	3446.5	2455.1	1996.3	1720.1
35°	9381.6	9325.5	9189.8	9070.4	8896.1	6261.0	4747.9	3439.7	2310.3	1827.1	1583.2
37.5°	10091.6	10057.8	9990.9	9839.3	9626.0	6796.3	5007.0	3411.5	2133.2	1659.6	1478.5
40°	10848.2	10851.0	10778.5	10675.0	10476.5	7445.8	5315.4	3356.6	1939.8	1511.9	1383.0
42.5°	11648.9	11690.7	11655.7	11582.0	11391.4	8100.5	5684.4	3289.7	1752.3	1368.3	1289.5
45°	12566.6	12617.6	12671.3	12562.7	12377.6	8964.5	6169.9	3202.6	1549.3	1248.9	1225.0
47.5°	13625.3	13705.7	13753.8	13755.4	13570.4	10035.1	6958.7	3150.0	1369.9	1168.5	1193.9
50°	15858.7	15884.6	15998.4	16197.0	16054.9	12512.9	8336.5	3117.8	1247.7	1118.7	1171.3
52.5°	19077.2	19357.8	19555.2	19541.7	19348.2	14086.5	9095.9	2951.4	1175.2	1100.0	1160.5
55°	20388.2	20738.4	21103.3	21199.6	21049.6	15429.7	9813.8	2785.1	1140.2	1113.6	1164.5
57.5°	22134.9	22725.1	23225.8	23436.3	23219.0	17148.2	10758.2	2697.9	1129.5	1149.8	1190.0
60°	24175.4	24905.2	25562.7	25940.8	25940.8	19123.0	11737.7	2661.7	1114.7	1203.5	1232.9
62.5°	25486.3	26558.1	27551.0	28105.0	28088.7	20498.0	12172.2	2538.3	1081.3	1240.9	1291.8
65°	25491.5	26766.2	28031.0	28653.8	28685.7	20329.3	11454.7	2241.8	1019.6	1246.5	1351.1
67.5°	23366.7	24725.4	26199.9	26896.3	27057.1	18713.9	9915.7	1843.4	918.9	1192.7	1372.6
70°	19734.7	21061.5	22566.7	23251.2	23537.0	15952.7	7986.3	1420.8	790.4	1074.5	1328.1
72.5°	15547.5	16848.9	17896.8	18397.1	18619.9	12193.7	5815.7	1073.4	647.9	905.4	1208.7
75°	11007.8	11984.4	12541.2	12652.6	12687.2	7350.7	3533.7	798.3	534.1	704.4	1020.8
77.5°	6212.9	6631.6	6585.8	6635.5	6222.4	2837.6	1539.0	571.5	440.2	535.3	791.6
80°	2425.7	2500.9	2349.3	2302.3	2111.7	1055.8	679.0	398.4	351.4	405.1	554.0
82.5°	1069.4	1104.0	1071.8	1080.1	1033.2	544.8	406.3	288.5	268.2	296.5	367.7
85°	589.0	599.8	597.0	614.5	589.0	217.3	193.0	177.1	187.8	201.4	236.0
87.5°	286.9	289.7	280.6	295.3	285.8	109.8	95.1	100.7	109.8	112.6	112.6
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):

	135°	145°	155°	165°	175°	180°
0°	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5
2.5°	2176.2	2165.4	2166.6	2163.8	2158.6	2158.6
5°	2157.5	2146.7	2146.7	2143.9	2137.2	2138.4
7.5°	2176.2	2158.6	2151.9	2142.3	2133.2	2133.2
10°	2197.7	2166.6	2147.9	2132.0	2119.6	2119.6
12.5°	2213.6	2165.4	2134.4	2112.9	2100.9	2100.9
15°	2219.1	2155.9	2112.9	2087.4	2076.7	2075.5
17.5°	2201.6	2119.6	2067.5	2038.1	2024.5	2020.5
20°	2147.9	2054.0	1991.1	1957.3	1938.6	1931.8
22.5°	2067.5	1960.1	1886.4	1851.4	1827.1	1823.2
25°	1954.9	1839.5	1767.0	1733.2	1720.1	1715.7
27.5°	1823.2	1715.7	1654.0	1632.5	1620.6	1619.4
30°	1698.6	1607.0	1561.7	1545.4	1530.6	1528.2
32.5°	1581.6	1523.9	1506.8	1483.7	1449.0	1445.1
35°	1498.4	1493.2	1481.3	1429.9	1387.4	1375.0
37.5°	1447.5	1497.2	1435.5	1334.8	1304.2	1301.4
40°	1418.0	1455.8	1349.6	1314.9	1317.3	1314.9
42.5°	1351.1	1389.7	1352.3	1336.4	1346.8	1349.6
45°	1283.9	1326.9	1372.6	1361.9	1387.4	1387.4
47.5°	1246.5	1310.6	1371.0	1371.0	1408.9	1422.0
50°	1203.5	1297.4	1349.6	1368.3	1398.1	1387.4
52.5°	1200.7	1274.3	1318.9	1352.3	1365.9	1353.5
55°	1204.7	1255.6	1287.9	1325.7	1341.6	1342.8
57.5°	1210.3	1244.9	1266.4	1283.9	1332.0	1332.0
60°	1223.4	1235.7	1247.7	1257.2	1320.1	1321.3
62.5°	1244.9	1226.2	1223.4	1232.9	1313.3	1308.2
65°	1278.7	1212.6	1192.7	1201.9	1306.6	1290.7
67.5°	1324.1	1192.7	1153.7	1160.5	1301.4	1266.4
70°	1365.9	1160.5	1105.6	1098.8	1250.5	1188.8
72.5°	1369.9	1123.1	1038.3	1018.4	1086.9	1027.6
75°	1302.6	1097.2	964.7	905.4	897.4	889.5
77.5°	1174.0	1082.5	878.7	786.0	770.1	775.3
80°	982.2	1027.6	775.3	665.4	752.6	743.4
82.5°	733.9	907.0	658.7	589.0	587.4	519.4
85°	407.9	707.2	536.5	441.4	307.2	297.7
87.5°	114.2	393.2	375.7	249.5	170.3	177.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)