

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: P301657

Luminaire Tested: **GAA-AF-07-LED-U-T2R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301657
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-07-LED-U-T2R-7030-800
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 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: 34154.5 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

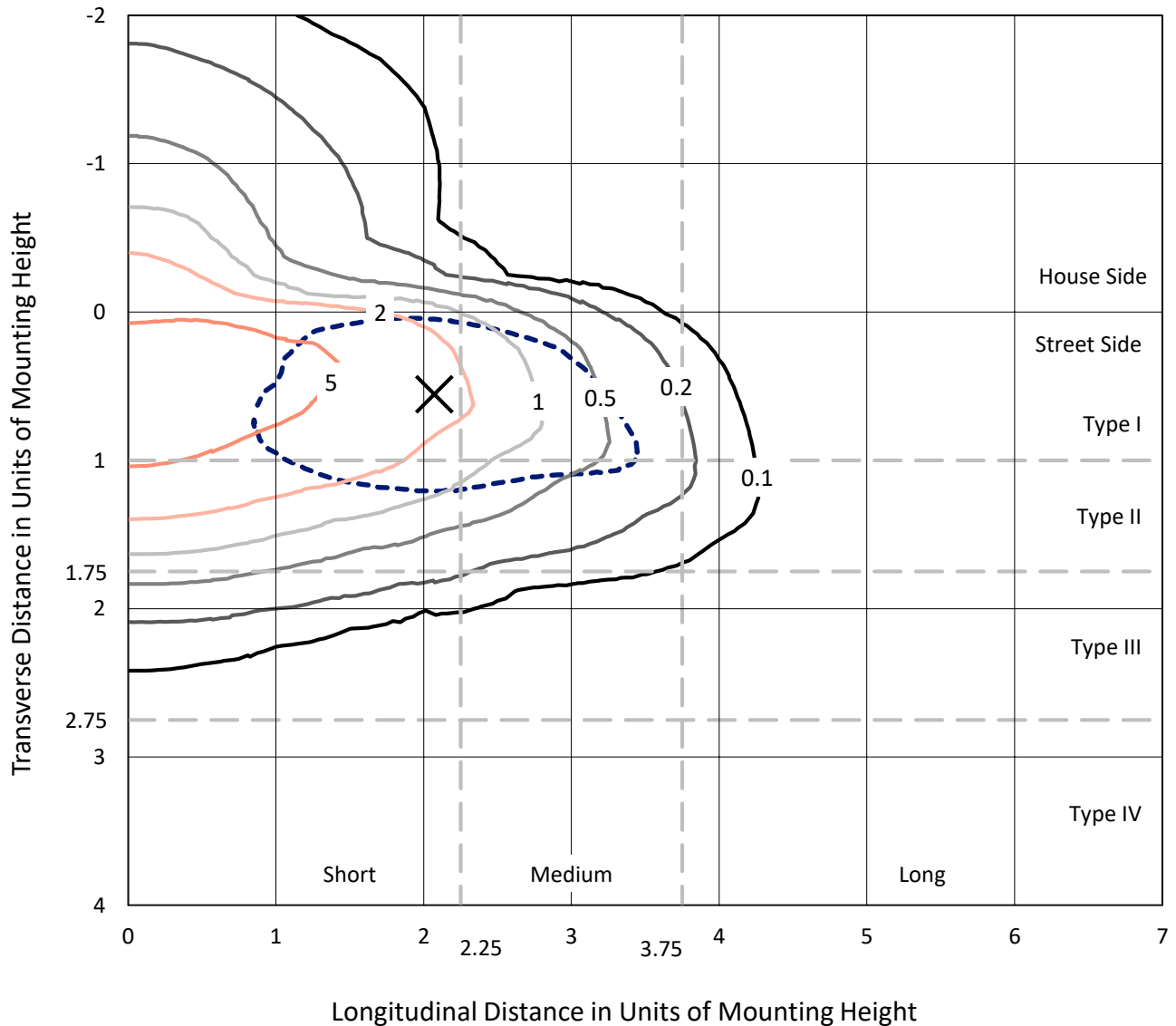
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

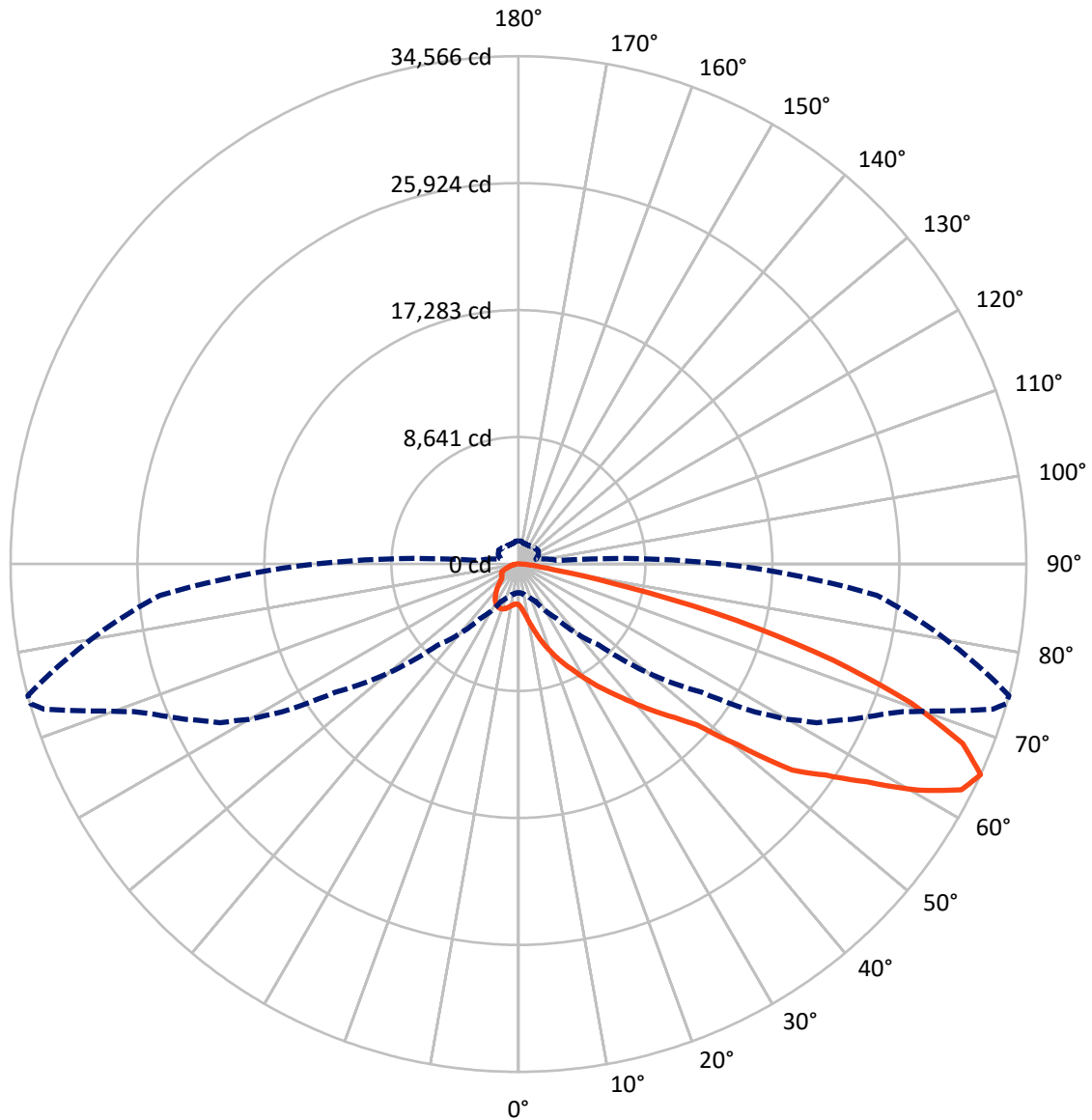
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 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	5265.8	0.0	5265.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	28888.7	0.0	28888.7
	% Fixture	84.6	0.0	84.6
Total	Lumens	34154.5	0.0	34154.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.1	1.0
10°-20°	1340.5	3.9
20°-30°	2750.3	8.1
30°-40°	4627.2	13.5
40°-50°	6393.6	18.7
50°-60°	7981.0	23.4
60°-70°	7182.1	21.0
70°-80°	3010.7	8.8
80°-90°	526.0	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°	34154.5	100.0
0°-180°	34154.5	100.0

Coefficient of Utilization



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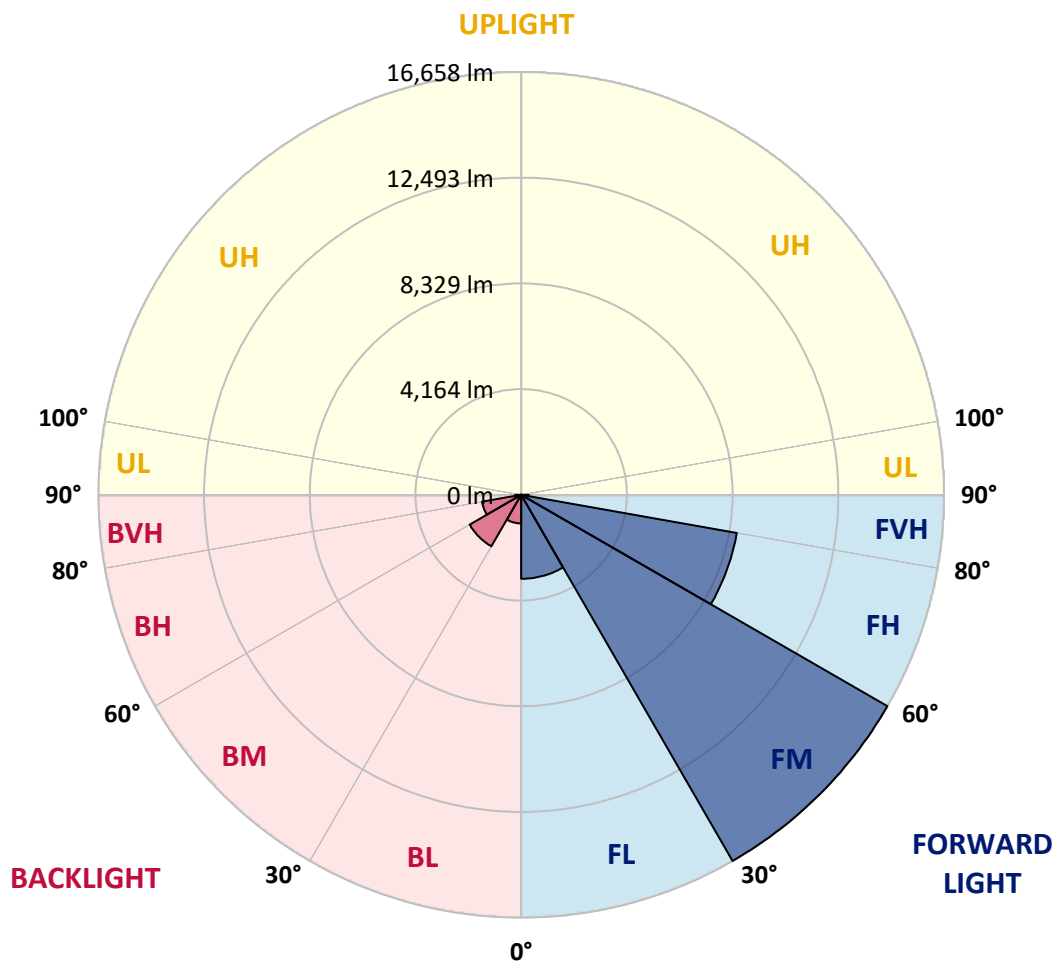
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3307.8	9.7			
FM (30°-60°)	16658.0	48.8			
FH (60°-80°)	8627.3	25.3			G4/12000
FVH (80°-90°)	295.6	0.9			G3/500
BL (0°-30°)	1126.1	3.3	B3/2500		
BM (30°-60°)	2343.9	6.9	B2/2500		
BH (60°-80°)	1565.5	4.6	B3/2500		G3/2500
BVH (80°-90°)	230.3	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7
2.5°	3524.3	3485.5	3495.1	3430.3	3351.2	3247.6	3133.0	3131.5	3133.0	3121.5	3079.8
5°	4886.7	4840.2	4822.5	4676.7	4463.3	4159.7	3829.8	3794.3	3779.4	3742.5	3656.7
7.5°	5881.4	5855.5	5827.6	5717.8	5524.1	5184.6	4741.4	4665.7	4592.8	4575.0	4478.2
10°	6523.0	6516.3	6458.3	6429.0	6308.2	6013.7	5582.1	5509.2	5430.1	5402.8	5300.6
12.5°	7030.4	7029.0	7001.6	7009.8	6904.3	6691.3	6319.2	6253.0	6195.0	6110.6	6038.2
15°	7381.4	7382.9	7423.6	7468.7	7452.4	7308.5	6959.4	6930.2	6880.3	6822.3	6736.4
17.5°	7669.2	7677.3	7719.0	7801.5	7890.7	7879.2	7603.0	7578.5	7534.9	7455.8	7410.7
20°	8319.0	8349.7	8269.1	8269.1	8278.7	8322.3	8189.5	8170.3	8108.9	8066.7	8031.2
22.5°	9416.7	9452.2	9269.5	9083.9	8901.2	8768.3	8636.0	8659.9	8618.2	8589.0	8567.9
25°	10842.4	10870.3	10574.4	10260.7	9888.6	9403.7	9075.7	9060.9	9038.3	9020.6	9011.0
27.5°	12184.3	12195.8	11916.2	11456.8	11025.2	10328.3	9521.7	9504.0	9476.6	9442.6	9413.3
30°	13332.3	13329.0	13041.2	12602.9	12140.6	11369.5	10199.3	10144.2	10063.1	9971.1	9900.1
32.5°	14326.5	14321.7	14006.1	13552.0	13067.1	12401.0	11127.3	11014.1	10888.0	10708.2	10600.3
35°	15108.6	15105.8	14807.9	14334.6	13778.3	13372.6	12191.0	12051.9	11891.7	11651.0	11484.6
37.5°	15404.5	15404.5	15238.1	14914.9	14423.3	14145.2	13372.6	13204.3	13033.1	12759.7	12572.2
40°	15231.4	15234.8	15270.2	15210.8	14971.5	14758.1	14475.1	14374.9	14227.7	13982.1	13786.5
42.5°	14651.1	14668.9	14905.3	15194.5	15313.9	15280.3	15453.0	15407.9	15304.3	15115.3	14960.0
45°	13915.5	13970.6	14229.1	14775.8	15409.3	15731.1	16272.5	16277.3	16258.1	16156.5	16036.6
47.5°	12905.5	12982.7	13324.2	14062.7	15186.3	16169.4	17105.1	17148.7	17189.5	17123.3	17068.1
50°	11563.7	11655.8	12166.5	13146.3	14732.2	16623.6	18678.0	18875.6	19059.7	19037.2	19074.1
52.5°	10126.5	10234.8	10860.2	11951.7	13951.4	16728.6	19683.7	20005.4	20327.2	20590.5	20870.1
55°	8829.7	8771.7	9397.5	10546.5	12667.7	16254.8	20587.6	20975.6	21334.3	21657.5	21990.8
57.5°	7072.6	7168.0	7795.3	8931.9	10968.6	14917.8	21209.6	21777.4	22293.0	22828.2	23300.0
60°	5169.7	5265.1	5945.6	7099.9	9124.2	12890.7	20734.4	21594.7	22420.5	23240.1	23880.3
62.5°	3121.5	3192.9	3792.4	4892.0	7035.7	10487.1	18616.6	19745.0	20960.7	21940.5	22921.7
65°	1943.2	1983.5	2205.0	2809.8	4518.4	7829.3	15210.8	16440.9	17750.1	18993.6	20013.6
67.5°	1590.7	1605.1	1645.9	1774.9	2481.3	5105.4	11321.0	12410.6	13592.3	14795.0	15930.1
70°	1430.5	1420.9	1420.9	1429.1	1590.7	2745.0	7412.1	8121.9	9106.4	10152.3	11190.1
72.5°	1291.5	1281.9	1264.1	1240.1	1298.2	1674.6	3831.2	4366.4	5076.2	6005.6	6999.7
75°	1160.5	1147.6	1127.0	1096.3	1136.6	1264.1	1839.6	2064.5	2410.3	2905.2	3459.6
77.5°	1024.8	1008.5	989.3	966.8	1018.6	983.1	1078.1	1159.1	1291.5	1450.2	1658.8
80°	871.4	857.0	850.3	839.2	900.6	748.6	761.5	811.4	889.1	975.0	1071.8
82.5°	682.4	682.4	707.8	713.1	780.7	538.5	569.2	612.9	653.2	698.2	743.8
85°	449.4	452.7	540.0	574.0	615.8	362.1	426.8	441.2	473.8	499.7	518.9
87.5°	140.5	152.0	329.9	365.4	353.9	205.3	261.8	268.6	291.1	308.8	325.1
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7
2.5°	3079.8	3060.1	3042.3	3040.9	3028.0	3010.2	3016.5	2989.1	2990.6	2976.2	2959.9
5°	3621.2	3608.2	3543.5	3525.7	3477.3	3446.6	3441.8	3377.1	3368.9	3332.0	3291.2
7.5°	4400.5	4358.3	4267.6	4224.0	4141.5	4080.1	4051.3	3965.5	3923.3	3826.4	3782.8
10°	5216.7	5163.5	5051.7	4990.3	4911.2	4812.4	4759.2	4635.0	4586.1	4497.3	4390.9
12.5°	5973.4	5920.2	5805.1	5758.1	5653.1	5548.1	5490.0	5349.5	5286.2	5143.8	5059.9
15°	6673.1	6619.9	6519.7	6471.2	6366.2	6280.4	6202.7	6064.1	5989.7	5856.9	5747.1
17.5°	7352.2	7295.6	7208.3	7164.7	7063.0	6975.7	6891.8	6760.4	6684.6	6552.3	6453.5
20°	7982.8	7940.6	7877.8	7819.3	7717.6	7638.5	7538.2	7425.1	7315.3	7217.9	7124.4
22.5°	8532.4	8516.1	8448.5	8422.6	8335.3	8267.2	8179.9	8068.6	7989.0	7866.3	7779.0
25°	9006.2	9001.4	8968.8	8960.6	8899.2	8834.5	8815.3	8723.2	8650.4	8542.0	8451.8
27.5°	9413.3	9418.1	9410.5	9433.0	9416.7	9387.4	9389.4	9358.7	9316.5	9225.8	9146.7
30°	9866.0	9840.2	9855.0	9887.1	9896.7	9900.1	9953.3	9971.1	9968.2	9908.2	9869.4
32.5°	10506.3	10444.9	10388.3	10383.5	10415.6	10428.6	10519.2	10566.2	10606.5	10620.9	10627.6
35°	11322.5	11199.7	11081.7	11018.9	10963.8	10978.2	11042.9	11119.1	11207.9	11269.2	11342.1
37.5°	12350.7	12200.6	11992.0	11843.3	11805.9	11725.3	11767.0	11827.0	11914.3	12009.7	12135.8
40°	13597.0	13369.3	13134.7	12937.6	12831.2	12682.0	12680.6	12669.1	12722.8	12811.5	12989.4
42.5°	14796.9	14594.5	14345.6	14139.0	13999.9	13800.9	13760.6	13655.6	13679.5	13757.2	13930.3
45°	15920.1	15753.6	15601.6	15362.8	15244.3	15029.5	14961.4	14837.2	14767.7	14803.1	14976.3
47.5°	17008.2	16901.7	16743.0	16588.1	16497.4	16305.1	16217.9	16128.7	16039.9	16036.6	16217.9
50°	19129.3	19072.7	18885.2	18723.6	18767.2	18531.3	18545.7	18306.4	18414.7	18427.7	18807.5
52.5°	21122.3	21319.9	21459.0	21628.3	21738.6	21759.7	21832.1	21940.5	22071.4	22329.9	22682.4
55°	22263.7	22511.2	22655.0	22784.5	22997.9	23043.0	23164.3	23308.2	23422.8	23713.9	24013.2
57.5°	23620.4	24079.3	24302.3	24507.6	24795.3	24905.1	25107.5	25264.3	25413.0	25757.3	26119.4
60°	24455.8	25015.4	25469.6	25794.3	26154.9	26413.8	26719.3	26964.9	27314.0	27726.4	28266.4
62.5°	23791.6	24612.6	25215.9	25773.6	26263.3	26758.2	27196.0	27655.4	28185.4	28809.3	29647.1
65°	21145.4	21980.8	23013.7	23592.6	24240.9	25003.9	25670.0	26413.8	27136.1	28044.8	29283.1
67.5°	17023.0	17994.2	19155.2	19738.8	20484.1	21335.8	22082.9	22991.2	23835.2	24935.8	26467.1
70°	12270.1	13526.1	14502.5	15112.0	15981.9	16859.5	17580.8	18637.7	19336.0	20464.4	22047.4
72.5°	7769.4	8760.2	9956.7	10724.5	11497.0	12386.6	13123.7	14035.4	14686.6	15714.8	17148.7
75°	4177.5	4907.8	5958.6	6688.0	7515.7	8275.3	9138.6	9749.5	10231.5	11044.8	12208.7
77.5°	1957.6	2402.1	2934.0	3495.1	4056.1	4641.2	5210.5	5704.9	5912.1	6377.7	7064.4
80°	1188.4	1332.2	1487.1	1660.2	1894.8	2083.7	2334.5	2515.3	2528.3	2675.5	2885.5
82.5°	793.7	846.9	893.9	937.5	997.5	1044.5	1097.7	1160.5	1186.4	1220.5	1288.6
85°	541.4	567.3	576.9	604.7	598.0	614.3	635.4	656.5	667.6	666.1	696.8
87.5°	332.8	345.8	352.5	358.7	353.9	347.7	357.3	368.8	371.7	362.1	365.4
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°	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7
2.5°	2963.2	2948.8	2934.0	2924.4	2921.0	2835.7	2798.2	2774.3	2722.5	2680.3	2646.2
5°	3268.7	3238.0	3214.0	3184.8	3168.5	2951.7	2872.6	2817.9	2727.3	2674.0	2625.1
7.5°	3760.3	3674.4	3624.5	3567.9	3519.5	3128.2	2997.3	2911.4	2785.3	2714.3	2659.2
10°	4318.0	4229.3	4149.7	4062.4	3986.6	3362.7	3171.8	3039.0	2872.6	2780.5	2707.6
12.5°	4940.5	4853.2	4752.9	4641.2	4544.3	3660.0	3394.8	3205.9	2977.6	2854.8	2753.2
15°	5676.1	5522.2	5400.8	5271.8	5158.7	4015.9	3655.2	3393.4	3089.3	2922.9	2787.2
17.5°	6359.5	6197.9	6033.4	5920.2	5789.3	4414.9	3917.1	3583.8	3181.4	2966.6	2793.5
20°	7027.5	6851.0	6709.1	6557.1	6419.4	4828.7	4196.7	3752.1	3241.4	2968.0	2753.2
22.5°	7615.9	7505.6	7347.4	7182.4	7043.3	5242.6	4458.5	3894.5	3263.9	2931.1	2681.7
25°	8284.9	8168.9	7974.7	7835.6	7680.7	5664.6	4715.5	4004.4	3251.0	2861.6	2571.9
27.5°	8999.5	8870.5	8671.5	8526.1	8338.6	6102.4	4951.5	4083.5	3202.5	2748.4	2424.7
30°	9744.7	9626.7	9431.1	9284.3	9094.9	6566.7	5215.2	4136.7	3105.6	2591.6	2253.5
32.5°	10545.1	10446.3	10252.6	10099.1	9896.7	7069.2	5460.8	4153.0	2958.4	2405.5	2072.7
35°	11304.7	11237.1	11073.6	10929.7	10719.7	7544.5	5721.2	4144.9	2783.9	2201.7	1907.7
37.5°	12160.3	12119.5	12038.9	11856.2	11599.2	8189.5	6033.4	4110.8	2570.5	1999.8	1781.6
40°	13071.9	13075.3	12988.0	12863.3	12624.0	8972.1	6405.0	4044.6	2337.4	1821.9	1666.5
42.5°	14036.8	14087.2	14045.0	13956.2	13726.5	9761.0	6849.6	3964.1	2111.5	1648.7	1553.8
45°	15142.7	15204.1	15268.8	15137.9	14914.9	10802.2	7434.7	3859.0	1866.9	1504.9	1476.1
47.5°	16418.3	16515.2	16573.2	16575.1	16352.1	12092.2	8385.2	3795.7	1650.7	1408.0	1438.7
50°	19109.6	19140.8	19277.9	19517.3	19346.0	15077.9	10045.4	3756.9	1503.4	1348.1	1411.4
52.5°	22987.8	23325.9	23563.8	23547.5	23314.4	16974.1	10960.4	3556.4	1416.1	1325.5	1398.4
55°	24567.5	24989.5	25429.3	25545.4	25364.6	18592.7	11825.5	3356.0	1373.9	1341.8	1403.2
57.5°	26672.3	27383.5	27986.8	28240.5	27978.7	20663.4	12963.5	3251.0	1361.0	1385.5	1433.9
60°	29131.0	30010.6	30802.8	31258.4	31258.4	23043.0	14143.7	3207.3	1343.3	1450.2	1485.7
62.5°	30710.7	32002.2	33198.7	33866.3	33846.6	24699.9	14667.4	3058.7	1303.0	1495.3	1556.7
65°	30717.0	32253.0	33777.1	34527.6	34565.9	24496.6	13802.8	2701.4	1228.6	1502.0	1628.1
67.5°	28156.6	29793.8	31570.6	32409.8	32603.6	22550.0	11948.3	2221.3	1107.3	1437.3	1654.0
70°	23780.1	25378.9	27192.7	28017.5	28361.8	19222.8	9623.4	1712.0	952.4	1294.8	1600.3
72.5°	18734.6	20302.8	21565.5	22168.3	22436.8	14693.3	7007.9	1293.4	780.7	1091.0	1456.4
75°	13264.2	14441.1	15112.0	15246.3	15288.0	8857.5	4258.0	962.0	643.6	848.8	1230.1
77.5°	7486.5	7991.0	7935.8	7995.8	7498.0	3419.3	1854.5	688.7	530.4	645.0	953.9
80°	2922.9	3013.6	2830.9	2774.3	2544.6	1272.3	818.1	480.0	423.5	488.2	667.6
82.5°	1288.6	1330.3	1291.5	1301.5	1244.9	656.5	489.6	347.7	323.2	357.3	443.1
85°	709.8	722.7	719.3	740.4	709.8	261.8	232.6	213.4	226.4	242.7	284.4
87.5°	345.8	349.1	338.1	355.8	344.3	132.4	114.6	121.3	132.4	135.7	135.7
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°	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7
2.5°	2622.3	2609.3	2610.7	2607.4	2601.1	2601.1
5°	2599.7	2586.8	2586.8	2583.4	2575.3	2576.7
7.5°	2622.3	2601.1	2593.0	2581.5	2570.5	2570.5
10°	2648.1	2610.7	2588.2	2569.0	2554.2	2554.2
12.5°	2667.3	2609.3	2571.9	2546.0	2531.6	2531.6
15°	2674.0	2597.8	2546.0	2515.3	2502.4	2500.9
17.5°	2652.9	2554.2	2491.3	2455.8	2439.5	2434.7
20°	2588.2	2475.0	2399.3	2358.5	2336.0	2327.8
22.5°	2491.3	2361.8	2273.1	2230.9	2201.7	2196.9
25°	2355.6	2216.5	2129.3	2088.5	2072.7	2067.4
27.5°	2196.9	2067.4	1993.1	1967.2	1952.8	1951.3
30°	2046.8	1936.5	1881.8	1862.1	1844.4	1841.5
32.5°	1905.8	1836.2	1815.6	1787.8	1746.1	1741.3
35°	1805.6	1799.3	1784.9	1723.1	1671.8	1656.9
37.5°	1744.2	1804.1	1729.8	1608.5	1571.5	1568.2
40°	1708.7	1754.2	1626.2	1584.5	1587.4	1584.5
42.5°	1628.1	1674.6	1629.6	1610.4	1622.8	1626.2
45°	1547.1	1598.9	1654.0	1641.1	1671.8	1671.8
47.5°	1502.0	1579.2	1652.1	1652.1	1697.7	1713.5
50°	1450.2	1563.4	1626.2	1648.7	1684.7	1671.8
52.5°	1446.8	1535.6	1589.3	1629.6	1645.9	1631.0
55°	1451.6	1513.0	1551.9	1597.4	1616.6	1618.0
57.5°	1458.4	1500.1	1526.0	1547.1	1605.1	1605.1
60°	1474.2	1489.0	1503.4	1514.9	1590.7	1592.1
62.5°	1500.1	1477.5	1474.2	1485.7	1582.6	1576.3
65°	1540.8	1461.2	1437.3	1448.3	1574.4	1555.2
67.5°	1595.5	1437.3	1390.3	1398.4	1568.2	1526.0
70°	1645.9	1398.4	1332.2	1324.1	1506.8	1432.5
72.5°	1650.7	1353.3	1251.2	1227.2	1309.7	1238.2
75°	1569.6	1322.2	1162.5	1091.0	1081.4	1071.8
77.5°	1414.7	1304.4	1058.9	947.1	928.0	934.2
80°	1183.6	1238.2	934.2	801.8	906.9	895.8
82.5°	884.3	1092.9	793.7	709.8	707.8	625.8
85°	491.6	852.2	646.5	531.8	370.2	358.7
87.5°	137.6	473.8	452.7	300.7	205.3	213.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)