

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: P268462

Luminaire Tested: **GAN-AF-04-LED-U-T2R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268462
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-04-LED-U-T2R-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14319.8 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

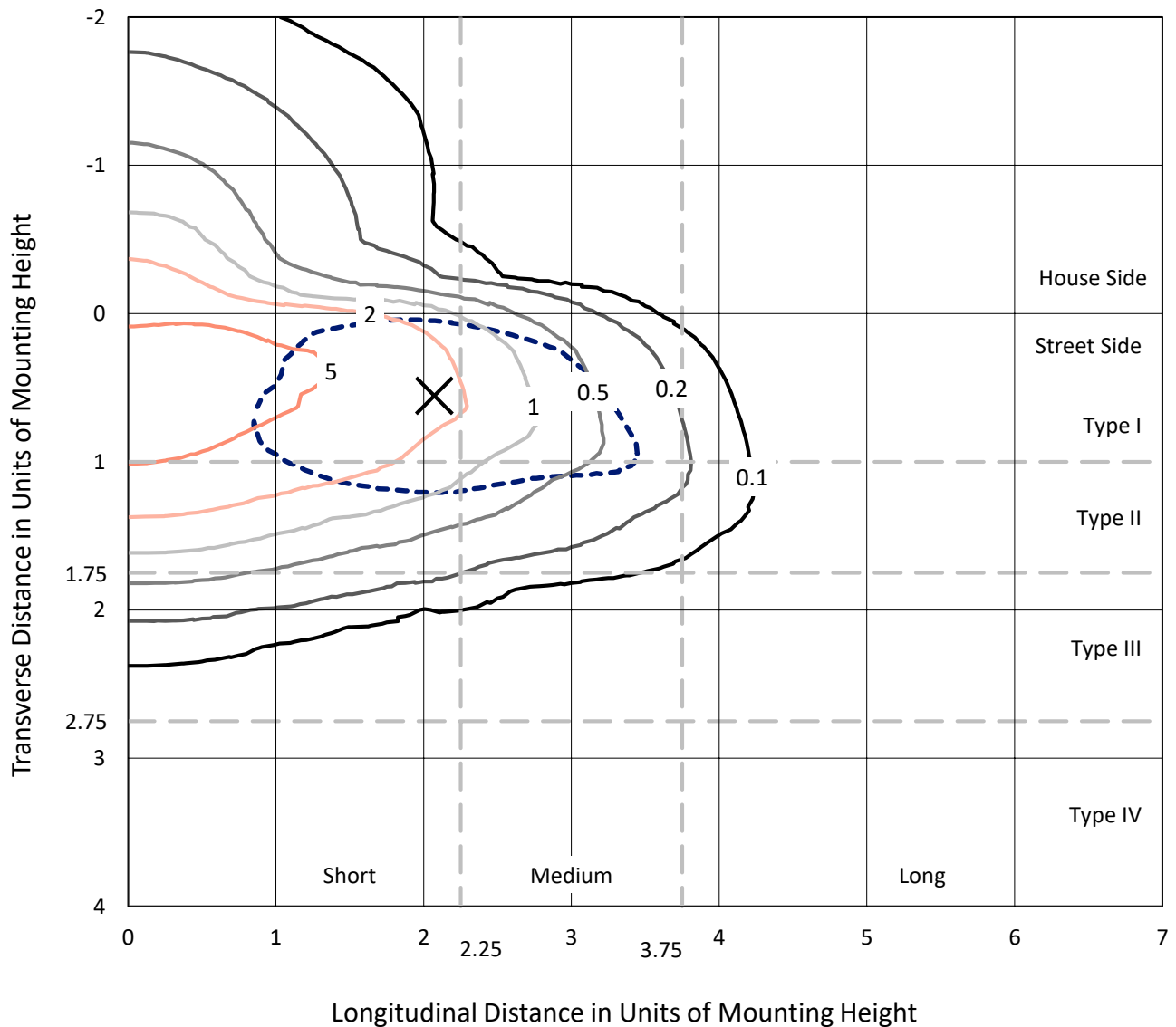
Input Watts (W): 129
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

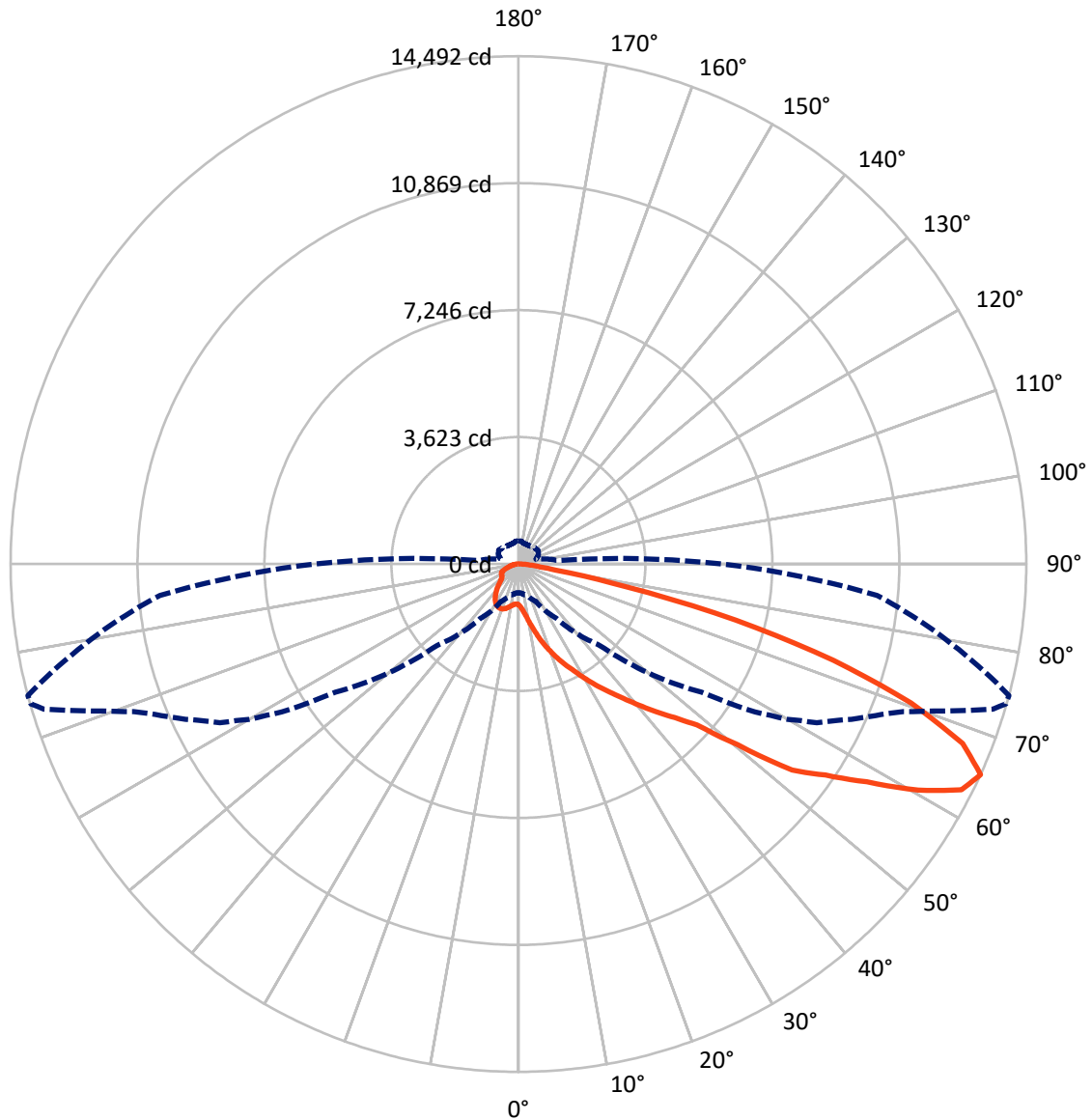
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 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	2207.8	0.0	2207.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	12112.0	0.0	12112.0
	% Fixture	84.6	0.0	84.6
Total	Lumens	14319.8	0.0	14319.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	1.0
10°-20°	562.0	3.9
20°-30°	1153.1	8.1
30°-40°	1940.0	13.5
40°-50°	2680.6	18.7
50°-60°	3346.2	23.4
60°-70°	3011.2	21.0
70°-80°	1262.3	8.8
80°-90°	220.5	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°	14319.8	100.0
0°-180°	14319.8	100.0

Coefficient of Utilization



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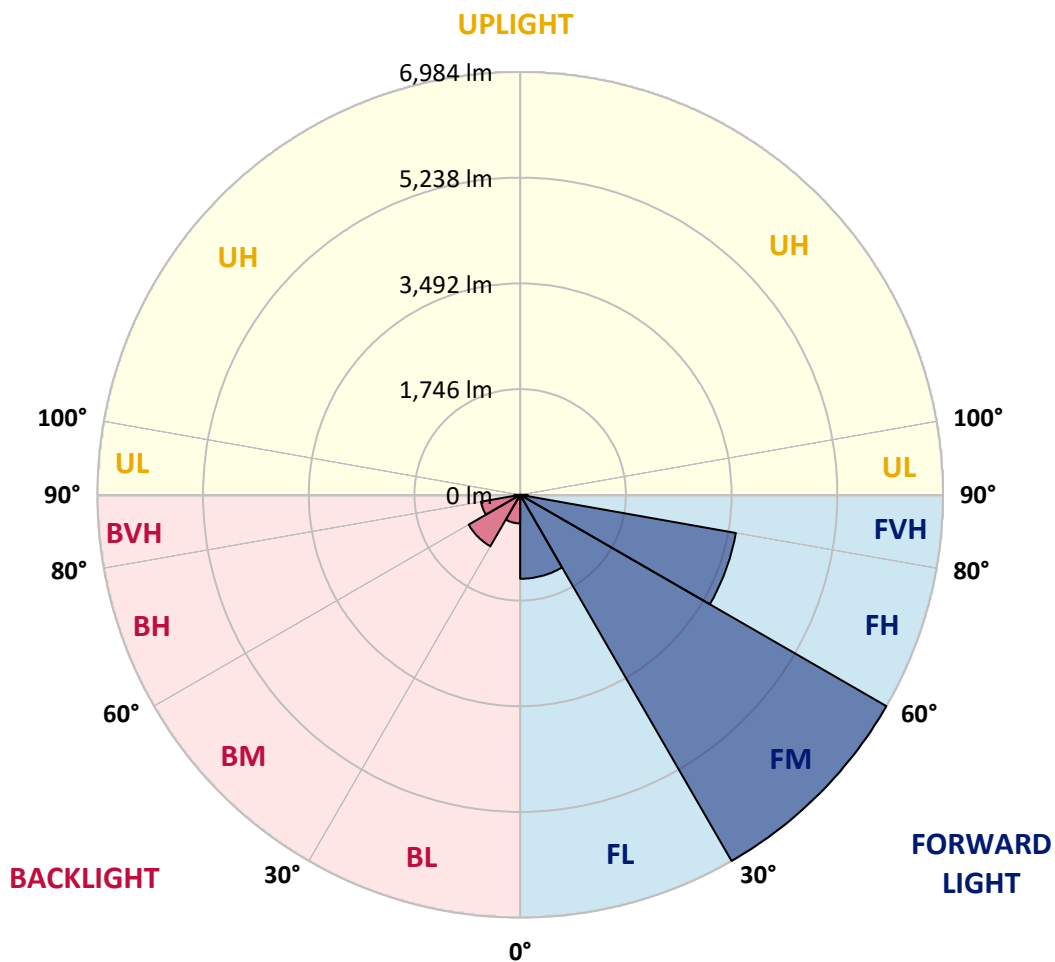
CATALOG NUMBER: GAN-AF-04-LED-U-T2R-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1386.8	9.7			
FM	(30°-60°)	6984.1	48.8			
FH	(60°-80°)	3617.1	25.3			G2/5000
FVH	(80°-90°)	124.0	0.9			G2/225
BL	(0°-30°)	472.2	3.3	B1/500		
BM	(30°-60°)	982.7	6.9	B1/1000		
BH	(60°-80°)	656.3	4.6	B2/1000		G2/1000
BVH	(80°-90°)	96.6	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1477.6	1461.4	1465.3	1438.2	1405.0	1361.7	1313.5	1312.9	1313.5	1308.8	1291.1
5°	2048.9	2029.4	2021.8	1960.8	1871.3	1743.9	1605.7	1590.8	1584.7	1569.1	1533.1
7.5°	2465.8	2455.0	2443.4	2397.3	2316.0	2173.7	1987.9	1956.1	1925.5	1918.2	1877.5
10°	2734.9	2732.1	2707.8	2695.5	2644.7	2521.4	2340.4	2309.9	2276.7	2265.2	2222.4
12.5°	2947.7	2947.0	2935.5	2938.8	2894.8	2805.3	2649.6	2621.7	2597.3	2562.1	2531.6
15°	3094.8	3095.5	3112.4	3131.4	3124.6	3064.3	2917.9	2905.7	2884.6	2860.3	2824.4
17.5°	3215.5	3218.7	3236.5	3271.0	3308.3	3303.5	3187.6	3177.5	3159.2	3125.9	3107.0
20°	3487.8	3500.8	3466.9	3466.9	3471.0	3489.2	3433.7	3425.5	3399.7	3382.2	3367.2
22.5°	3948.1	3963.1	3886.4	3808.5	3731.9	3676.4	3620.7	3630.9	3613.3	3601.0	3592.2
25°	4546.0	4557.5	4433.3	4302.0	4145.9	3942.8	3805.1	3799.0	3789.5	3782.0	3778.0
27.5°	5108.5	5113.2	4996.0	4803.4	4622.5	4330.4	3992.2	3984.7	3973.2	3958.9	3946.8
30°	5589.8	5588.4	5467.8	5284.0	5090.2	4766.9	4276.1	4253.1	4219.2	4180.6	4150.8
32.5°	6006.5	6004.5	5872.3	5681.9	5478.6	5199.3	4665.2	4617.7	4564.8	4489.6	4444.3
35°	6334.6	6333.2	6208.5	6009.9	5776.8	5606.6	5111.1	5052.8	4985.9	4884.9	4814.9
37.5°	6458.6	6458.6	6388.8	6253.2	6047.2	5930.6	5606.6	5536.2	5464.3	5349.8	5271.2
40°	6386.1	6387.5	6402.4	6377.2	6276.9	6187.5	6068.9	6026.9	5965.1	5862.2	5780.1
42.5°	6142.8	6150.2	6249.1	6370.5	6420.6	6406.4	6478.9	6460.0	6416.7	6337.4	6272.2
45°	5834.4	5857.4	5965.9	6195.0	6460.7	6595.5	6822.5	6824.7	6816.5	6773.8	6723.6
47.5°	5410.9	5443.3	5586.3	5896.0	6367.1	6779.1	7171.7	7189.9	7206.9	7179.2	7156.1
50°	4848.2	4886.8	5101.0	5511.8	6176.7	6969.7	7831.2	7913.8	7991.1	7981.6	7997.3
52.5°	4245.7	4291.1	4553.4	5010.8	5849.4	7013.7	8252.6	8387.7	8522.5	8632.9	8750.2
55°	3702.1	3677.8	3940.0	4421.8	5311.0	6815.1	8631.6	8794.2	8944.8	9080.2	9219.9
57.5°	2965.3	3005.3	3268.4	3744.8	4598.8	6254.5	8892.5	9130.5	9346.7	9571.0	9769.0
60°	2167.6	2207.6	2492.8	2976.9	3825.4	5404.7	8693.3	9053.8	9400.3	9743.8	10012.2
62.5°	1308.8	1338.7	1590.1	2051.0	2949.8	4396.8	7805.5	8278.5	8788.2	9199.0	9610.3
65°	814.8	831.7	924.4	1177.9	1894.4	3282.5	6377.2	6893.1	7442.1	7963.4	8391.0
67.5°	666.9	673.0	690.0	744.2	1040.3	2140.4	4746.6	5203.3	5698.8	6203.1	6678.9
70°	599.9	595.8	595.8	599.2	666.9	1150.9	3107.6	3405.1	3817.9	4256.4	4691.7
72.5°	541.6	537.5	530.0	519.8	544.3	702.1	1606.3	1830.7	2128.3	2517.9	2934.9
75°	486.6	481.2	472.4	459.6	476.6	530.0	771.4	865.5	1010.6	1218.0	1450.5
77.5°	429.7	422.9	414.7	405.3	427.1	412.1	452.0	486.0	541.6	608.0	695.4
80°	365.3	359.2	356.4	351.7	377.6	313.8	319.3	340.3	372.7	408.6	449.4
82.5°	286.0	286.0	296.9	298.9	327.3	225.7	238.6	256.8	273.9	292.8	311.8
85°	188.5	189.8	226.5	240.7	258.3	151.9	178.9	185.1	198.5	209.5	217.6
87.5°	59.0	63.7	138.2	153.3	148.4	86.1	109.9	112.5	122.0	129.4	136.3
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°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1291.1	1283.0	1275.7	1275.0	1269.5	1261.9	1264.8	1253.2	1253.9	1247.7	1241.0
5°	1518.2	1512.8	1485.6	1478.3	1457.9	1445.1	1442.9	1415.9	1412.6	1397.0	1379.9
7.5°	1844.8	1827.3	1789.3	1771.1	1736.6	1710.7	1698.5	1662.7	1644.9	1604.4	1586.0
10°	2187.3	2164.8	2118.1	2092.3	2059.2	2017.8	1995.4	1943.3	1922.9	1885.6	1840.8
12.5°	2504.5	2482.0	2434.0	2414.3	2370.2	2326.3	2301.7	2242.8	2216.4	2156.7	2121.4
15°	2798.0	2775.6	2733.5	2713.2	2669.1	2633.2	2600.7	2542.4	2511.2	2455.6	2409.6
17.5°	3082.5	3058.9	3022.3	3003.9	2961.3	2924.6	2889.4	2834.5	2802.6	2747.0	2705.8
20°	3346.9	3329.3	3302.9	3278.5	3235.8	3202.5	3160.4	3113.0	3067.1	3026.3	2987.0
22.5°	3577.4	3570.6	3542.0	3531.2	3494.6	3466.2	3429.5	3382.8	3349.6	3298.0	3261.4
25°	3775.9	3773.9	3760.3	3757.0	3731.2	3704.2	3695.9	3657.3	3626.8	3581.5	3543.5
27.5°	3946.8	3948.8	3945.4	3954.9	3948.1	3936.0	3936.6	3923.6	3906.1	3868.1	3835.0
30°	4136.5	4125.6	4131.8	4145.4	4149.5	4150.8	4173.2	4180.6	4179.3	4154.1	4138.0
32.5°	4404.8	4379.1	4355.4	4353.5	4367.0	4372.4	4410.4	4430.0	4447.0	4453.1	4455.8
35°	4747.3	4695.7	4646.3	4619.9	4596.7	4602.8	4630.0	4661.8	4699.2	4724.8	4755.4
37.5°	5178.3	5115.3	5027.9	4965.4	4949.9	4916.0	4933.6	4958.6	4995.3	5035.3	5088.1
40°	5700.9	5605.3	5507.0	5424.3	5379.6	5317.2	5316.6	5311.8	5334.1	5371.4	5446.1
42.5°	6203.8	6119.1	6014.7	5927.9	5869.6	5786.3	5769.4	5725.3	5735.4	5767.9	5840.5
45°	6674.9	6605.0	6541.3	6440.9	6391.5	6301.4	6273.0	6220.8	6191.6	6206.5	6279.1
47.5°	7130.9	7086.3	7019.9	6954.8	6916.8	6836.1	6799.5	6762.4	6725.0	6723.6	6799.5
50°	8020.2	7996.5	7917.9	7850.1	7868.4	7769.5	7775.5	7675.3	7720.7	7726.1	7885.3
52.5°	8855.9	8938.7	8997.0	9068.1	9114.3	9122.9	9153.5	9199.0	9253.8	9362.2	9510.0
55°	9334.5	9438.2	9498.5	9552.8	9642.1	9661.2	9711.9	9772.3	9820.5	9942.4	10067.8
57.5°	9903.2	10095.6	10189.1	10275.3	10395.8	10442.0	10526.7	10592.5	10654.7	10799.2	10951.0
60°	10253.6	10488.2	10678.5	10814.8	10965.9	11074.3	11202.5	11305.4	11451.9	11624.6	11851.1
62.5°	9975.0	10319.3	10572.2	10805.9	11011.3	11218.8	11402.4	11595.0	11817.3	12078.8	12429.8
65°	8865.5	9215.8	9649.0	9891.5	10163.5	10483.3	10762.6	11074.3	11377.4	11758.3	12277.5
67.5°	7137.2	7544.4	8031.0	8275.7	8588.2	8945.4	9258.6	9639.5	9993.3	10454.8	11096.8
70°	5144.5	5671.0	6080.4	6335.9	6700.5	7068.7	7371.0	7814.1	8107.1	8580.2	9243.6
72.5°	3257.4	3672.9	4174.5	4496.5	4820.5	5193.2	5502.3	5884.5	6157.7	6588.8	7189.9
75°	1751.3	2057.7	2498.4	2804.0	3151.1	3469.7	3831.5	4087.7	4289.6	4630.7	5118.6
77.5°	820.8	1007.2	1230.1	1465.3	1700.6	1945.9	2184.5	2391.8	2478.7	2673.8	2961.9
80°	498.2	558.4	623.6	696.0	794.5	873.7	978.8	1054.6	1060.1	1121.8	1209.8
82.5°	332.8	355.2	374.9	393.1	418.3	437.8	460.2	486.6	497.5	511.8	540.2
85°	227.0	238.0	242.0	253.5	250.7	257.5	266.3	275.2	279.9	279.3	292.0
87.5°	139.6	145.0	147.7	150.5	148.4	145.7	149.7	154.6	155.9	151.9	153.3
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°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1242.4	1236.2	1230.1	1226.0	1224.7	1188.8	1173.2	1163.0	1141.3	1123.8	1109.5
5°	1370.5	1357.6	1347.5	1335.2	1328.5	1237.7	1204.4	1181.5	1143.5	1121.1	1100.8
7.5°	1576.5	1540.7	1519.7	1495.9	1475.6	1311.5	1256.5	1220.6	1167.8	1138.1	1114.9
10°	1810.4	1773.1	1739.8	1703.2	1671.4	1409.8	1329.9	1274.2	1204.4	1165.8	1135.3
12.5°	2071.3	2034.8	1992.7	1945.9	1905.2	1534.6	1423.4	1344.0	1248.5	1197.0	1154.2
15°	2379.7	2315.3	2264.4	2210.3	2162.8	1683.7	1532.5	1422.6	1295.3	1225.5	1168.5
17.5°	2666.3	2598.6	2529.4	2482.0	2427.1	1851.0	1642.3	1502.7	1334.0	1243.8	1171.2
20°	2946.4	2872.5	2812.9	2749.2	2691.5	2024.5	1759.5	1573.1	1359.0	1244.4	1154.2
22.5°	3193.0	3146.9	3080.6	3011.4	2953.1	2198.1	1869.4	1632.8	1368.5	1228.8	1124.5
25°	3473.7	3424.9	3343.5	3285.2	3220.2	2374.9	1977.1	1678.9	1363.0	1199.6	1078.3
27.5°	3773.2	3719.1	3635.6	3574.6	3496.1	2558.6	2076.1	1712.1	1342.6	1152.3	1016.7
30°	4085.8	4036.3	3954.2	3892.5	3813.2	2753.1	2186.6	1734.4	1302.1	1086.5	944.8
32.5°	4421.2	4379.9	4298.5	4234.2	4149.5	2964.0	2289.6	1741.3	1240.4	1008.5	868.9
35°	4739.7	4711.3	4642.8	4582.6	4494.4	3163.2	2398.7	1737.9	1167.2	923.2	799.9
37.5°	5098.3	5081.4	5047.4	4971.0	4863.2	3433.7	2529.4	1723.6	1077.6	838.4	746.9
40°	5480.6	5481.9	5445.3	5393.2	5292.9	3761.7	2685.5	1695.8	980.1	763.9	698.8
42.5°	5885.2	5906.3	5888.6	5851.3	5755.1	4092.5	2871.8	1662.0	885.2	691.3	651.4
45°	6348.9	6374.6	6401.7	6346.7	6253.2	4529.0	3117.2	1617.8	782.9	631.0	618.8
47.5°	6883.6	6924.2	6948.7	6949.4	6855.9	5069.9	3515.6	1591.4	692.1	590.4	603.2
50°	8012.2	8025.0	8082.6	8182.9	8111.1	6321.7	4211.8	1575.2	630.3	565.3	591.8
52.5°	9638.2	9779.8	9879.4	9872.6	9775.0	7116.7	4595.4	1491.1	593.7	555.8	586.2
55°	10300.3	10477.2	10661.5	10710.4	10634.5	7795.2	4958.0	1407.0	576.2	562.6	588.3
57.5°	11182.8	11481.0	11733.8	11840.2	11730.4	8663.4	5435.1	1363.0	570.8	580.8	601.1
60°	12213.7	12582.4	12914.6	13105.7	13105.7	9661.2	5929.9	1344.8	563.2	608.0	622.9
62.5°	12875.9	13417.4	13919.0	14198.9	14190.9	10355.9	6149.5	1282.4	546.3	626.9	652.7
65°	12878.6	13522.5	14161.7	14476.1	14492.4	10270.5	5786.9	1132.7	515.1	629.6	682.5
67.5°	11804.9	12491.7	13236.4	13588.2	13669.6	9454.4	5009.5	931.3	464.2	602.6	693.4
70°	9970.3	10640.6	11401.1	11746.6	11891.0	8059.6	4034.8	717.7	399.1	542.9	671.0
72.5°	7854.9	8512.2	9041.7	9294.5	9407.1	6160.3	2938.1	542.2	327.3	457.4	610.7
75°	5561.2	6054.7	6335.9	6392.2	6409.9	3713.7	1785.3	403.2	269.8	355.9	515.7
77.5°	3138.9	3350.3	3327.2	3352.4	3143.6	1433.5	777.5	288.7	222.3	270.4	399.8
80°	1225.5	1263.3	1186.8	1163.0	1066.8	533.5	343.0	201.3	177.5	204.8	279.9
82.5°	540.2	557.8	541.6	545.6	521.8	275.2	205.4	145.7	135.6	149.7	185.7
85°	297.6	303.0	301.7	310.5	297.6	109.9	97.6	89.6	95.0	101.7	119.3
87.5°	145.0	146.5	141.7	149.1	144.4	55.5	48.1	50.8	55.5	57.0	57.0
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):

	135°	145°	155°	165°	175°	180°
0°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1099.3	1094.0	1094.7	1093.2	1090.5	1090.5
5°	1089.9	1084.4	1084.4	1083.0	1079.8	1080.4
7.5°	1099.3	1090.5	1087.2	1082.4	1077.6	1077.6
10°	1110.2	1094.7	1085.2	1077.0	1070.9	1070.9
12.5°	1118.3	1094.0	1078.3	1067.5	1061.3	1061.3
15°	1121.1	1089.3	1067.5	1054.6	1049.2	1048.5
17.5°	1112.2	1070.9	1044.5	1029.5	1022.8	1020.7
20°	1085.2	1037.7	1005.8	988.9	979.4	976.0
22.5°	1044.5	990.2	952.9	935.3	923.2	921.1
25°	987.5	929.2	892.6	875.7	868.9	866.9
27.5°	921.1	866.9	835.8	824.9	818.7	818.0
30°	858.2	812.0	788.9	780.7	773.4	772.1
32.5°	799.1	769.9	761.1	749.6	731.9	730.0
35°	757.1	754.3	748.3	722.5	700.9	694.7
37.5°	731.3	756.5	725.2	674.4	658.7	657.5
40°	716.4	735.4	681.9	664.2	665.6	664.2
42.5°	682.5	702.1	683.3	675.0	680.5	681.9
45°	648.7	670.3	693.4	687.9	700.9	700.9
47.5°	629.6	662.2	692.8	692.8	711.6	718.5
50°	608.0	655.5	681.9	691.3	706.2	700.9
52.5°	606.6	643.8	666.3	683.3	690.0	683.9
55°	608.6	634.5	650.7	669.6	677.9	678.5
57.5°	611.3	629.1	639.9	648.7	673.0	673.0
60°	618.2	624.2	630.3	635.1	666.9	667.6
62.5°	629.1	619.6	618.2	622.9	663.6	660.9
65°	645.9	612.7	602.6	607.3	660.2	652.0
67.5°	669.0	602.6	582.9	586.2	657.5	639.9
70°	690.0	586.2	558.4	555.2	631.7	600.4
72.5°	692.1	567.3	524.6	514.4	549.0	519.2
75°	658.1	554.4	487.3	457.4	453.5	449.4
77.5°	593.2	547.0	443.9	397.2	389.1	391.8
80°	496.1	519.2	391.8	336.1	380.3	375.5
82.5°	370.7	458.1	332.8	297.6	296.9	262.3
85°	206.0	357.2	271.1	223.0	155.1	150.5
87.5°	57.6	198.5	189.8	126.0	86.1	89.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)