

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: P268704

Luminaire Tested: **GAN-AF-07-LED-U-T2R-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268704
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-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 41804.2 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

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

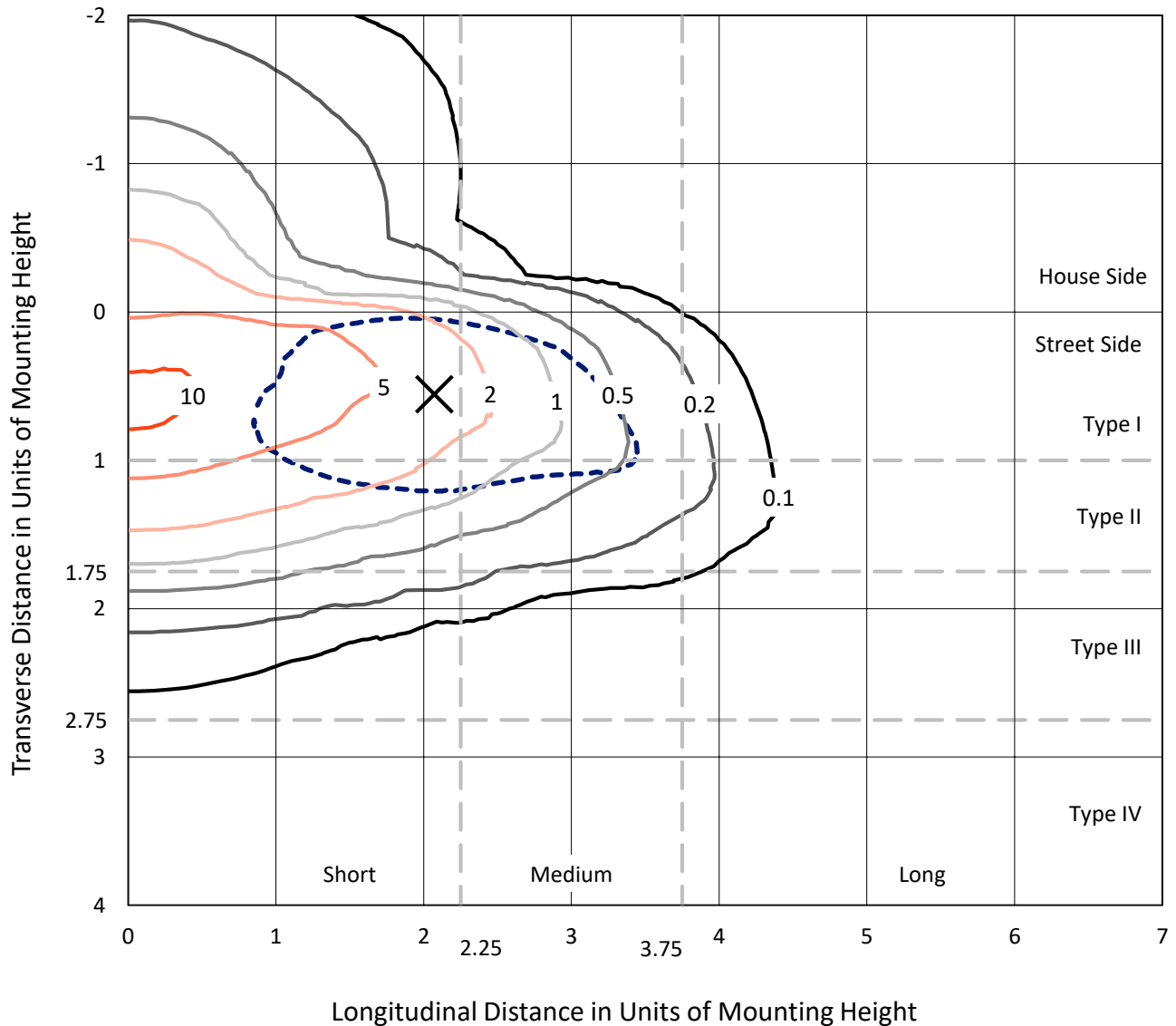


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

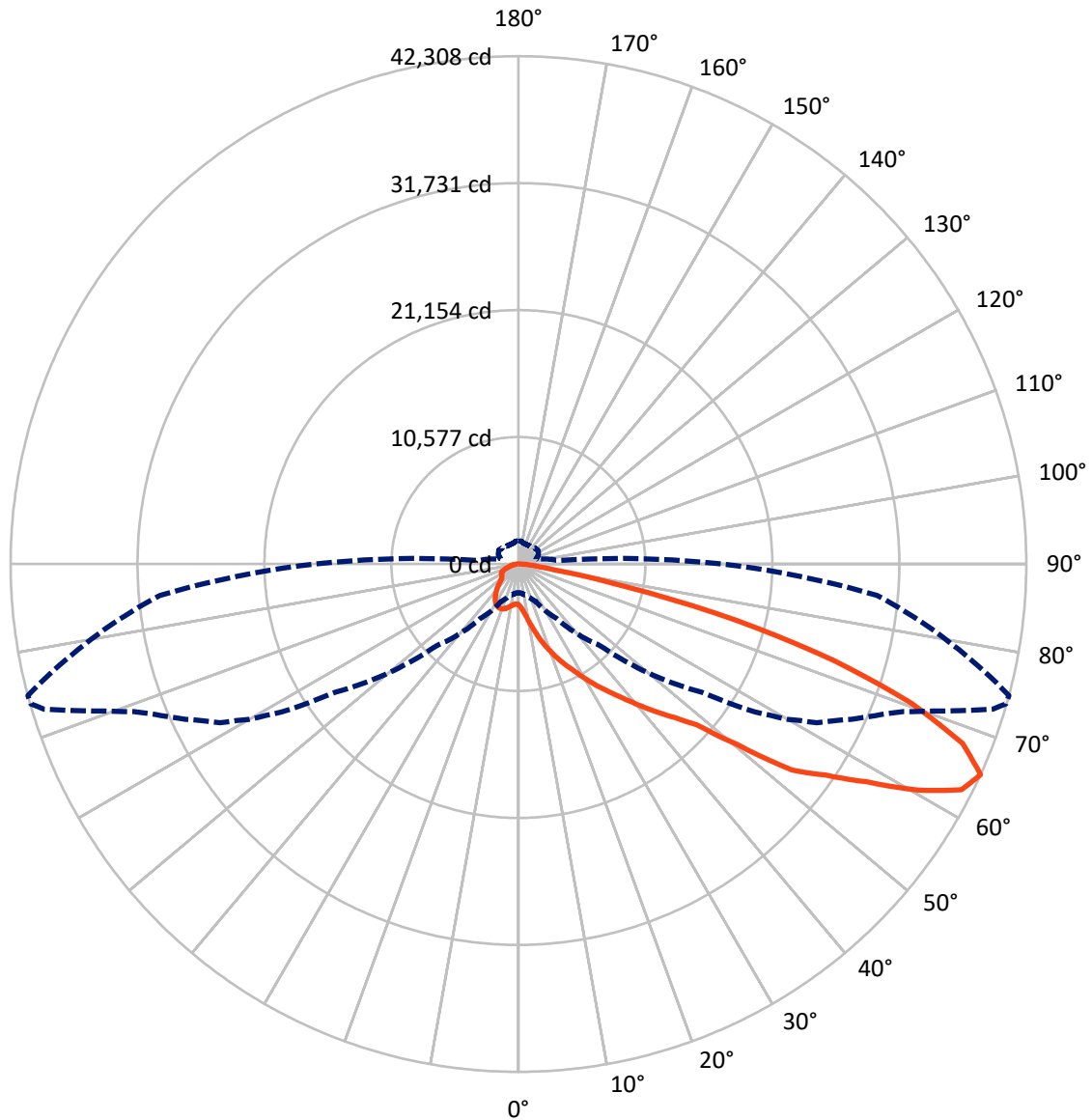


Based on 30 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - Full Cutoff

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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	6445.2	0.0	6445.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	35359.0	0.0	35359.0
	% Fixture	84.6	0.0	84.6
Total	Lumens	41804.2	0.0	41804.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.9	1.0
10°-20°	1640.8	3.9
20°-30°	3366.3	8.1
30°-40°	5663.6	13.5
40°-50°	7825.5	18.7
50°-60°	9768.6	23.4
60°-70°	8790.7	21.0
70°-80°	3685.0	8.8
80°-90°	643.8	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°	41804.2	100.0
0°-180°	41804.2	100.0

Coefficient of Utilization



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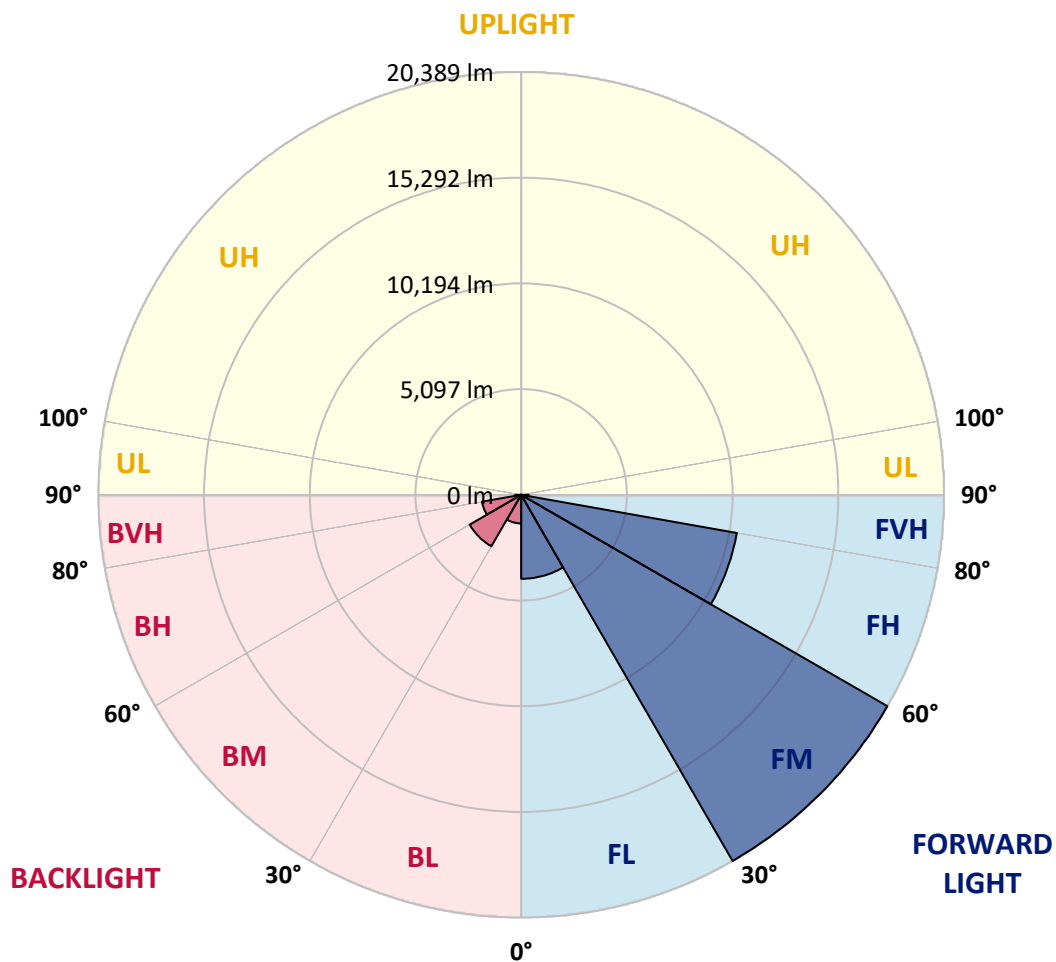
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4048.6	9.7			
FM	(30°-60°)	20388.9	48.8			
FH	(60°-80°)	10559.6	25.3			G4/12000
FVH	(80°-90°)	361.9	0.9			G3/500
BL	(0°-30°)	1378.4	3.3	B3/2500		
BM	(30°-60°)	2868.8	6.9	B3/5000		
BH	(60°-80°)	1916.1	4.6	B3/2500		G3/2500
BVH	(80°-90°)	281.9	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4
2.5°	4313.5	4266.1	4277.9	4198.8	4101.8	3975.2	3834.7	3832.7	3834.7	3820.9	3769.4
5°	5981.5	5924.1	5902.5	5724.3	5463.1	5091.1	4687.4	4644.0	4626.1	4580.6	4475.7
7.5°	7198.5	7166.8	7133.1	6998.5	6761.2	6345.6	5803.5	5710.4	5621.5	5599.7	5481.0
10°	7984.0	7976.1	7904.8	7869.2	7720.8	7360.7	6832.4	6743.3	6646.4	6612.8	6488.1
12.5°	8605.3	8603.2	8569.7	8579.5	8451.0	8189.8	7734.6	7653.5	7582.4	7479.4	7390.4
15°	9034.7	9036.6	9086.0	9141.5	9121.7	8945.6	8518.2	8482.6	8421.3	8350.0	8245.2
17.5°	9386.8	9396.8	9448.3	9549.2	9657.9	9644.2	9305.7	9276.1	9222.5	9125.7	9070.2
20°	10182.3	10219.8	10120.9	10120.9	10132.8	10186.2	10023.9	10000.2	9925.1	9873.6	9830.2
22.5°	11525.9	11569.4	11345.8	11118.2	10894.6	10732.4	10570.0	10599.8	10548.3	10512.8	10487.1
25°	13271.0	13304.6	12942.5	12558.7	12103.7	11510.1	11108.4	11090.6	11062.7	11041.1	11029.2
27.5°	14913.3	14927.1	14584.8	14022.9	13494.6	12641.8	11654.4	11632.6	11599.0	11557.5	11521.8
30°	16318.3	16314.2	15962.1	15425.8	14859.9	13916.1	12483.4	12416.3	12317.3	12204.6	12117.4
32.5°	17535.0	17529.2	17143.3	16587.3	15993.7	15178.4	13619.3	13480.8	13326.4	13106.8	12974.2
35°	18492.8	18488.7	18124.7	17544.9	16864.3	16367.7	14921.2	14751.1	14555.1	14260.4	14056.6
37.5°	18854.9	18854.9	18651.0	18255.3	17653.9	17313.5	16367.7	16161.9	15952.1	15617.8	15388.1
40°	18643.2	18647.0	18690.7	18617.5	18324.5	18063.4	17717.1	17594.5	17414.4	17113.6	16874.2
42.5°	17932.8	17954.6	18243.4	18597.6	18744.0	18702.5	18914.3	18858.7	18732.1	18500.7	18310.7
45°	17032.5	17099.7	17416.3	18085.1	18860.8	19254.5	19917.4	19923.2	19899.7	19774.8	19628.5
47.5°	15795.7	15890.7	16308.3	17212.6	18587.6	19790.7	20936.3	20989.8	21039.4	20958.1	20891.0
50°	14153.4	14266.3	14891.6	16090.6	18031.7	20346.8	22861.7	23103.1	23328.7	23301.0	23346.4
52.5°	12394.5	12527.0	13292.8	14628.4	17076.1	20475.3	24092.5	24486.2	24879.9	25202.5	25544.7
55°	10807.6	10736.4	11502.1	12909.0	15504.9	19895.7	25198.4	25673.4	26112.7	26508.4	26915.9
57.5°	8656.7	8773.4	9541.2	10932.3	13425.3	18259.3	25960.3	26654.8	27285.9	27940.9	28518.8
60°	6327.8	6444.6	7277.6	8690.4	11167.6	15778.0	25378.6	26431.2	27442.3	28445.5	29229.1
62.5°	3820.9	3907.8	4642.0	5987.6	8611.2	12835.7	22786.4	24167.6	25655.6	26854.7	28055.8
65°	2378.4	2427.8	2698.9	3438.9	5530.4	9582.8	18617.5	20123.2	21725.9	23247.4	24496.2
67.5°	1947.0	1964.9	2014.3	2172.6	3037.3	6248.7	13856.6	15190.2	16636.7	18108.9	19497.9
70°	1751.2	1739.3	1739.3	1749.2	1947.0	3359.8	9072.3	9941.0	11145.9	12426.2	13696.4
72.5°	1580.9	1569.1	1547.3	1517.6	1588.9	2049.9	4689.5	5344.5	6213.0	7350.8	8567.7
75°	1420.7	1404.9	1379.2	1341.6	1391.0	1547.3	2251.7	2526.8	2950.3	3555.8	4234.4
77.5°	1254.6	1234.7	1210.9	1183.2	1246.6	1203.0	1319.8	1418.8	1580.9	1775.0	2030.1
80°	1066.5	1048.7	1040.7	1026.9	1102.1	916.1	931.9	993.3	1088.2	1193.2	1311.9
82.5°	835.1	835.1	866.7	872.7	955.6	658.8	696.5	749.9	799.4	854.7	910.3
85°	550.1	554.1	660.9	702.5	753.9	443.3	522.4	540.2	579.8	611.3	635.1
87.5°	172.1	185.9	403.7	447.1	433.3	251.3	320.5	328.5	356.2	377.9	397.7
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4
2.5°	3769.4	3745.7	3723.8	3721.9	3706.0	3684.3	3692.3	3658.5	3660.6	3642.7	3623.0
5°	4432.2	4416.3	4337.2	4315.5	4256.1	4218.5	4212.6	4133.6	4123.6	4078.0	4028.5
7.5°	5386.0	5334.6	5223.7	5170.3	5069.3	4994.1	4958.6	4853.7	4802.2	4683.6	4630.1
10°	6385.2	6319.8	6183.4	6108.1	6011.3	5890.5	5825.1	5672.8	5613.5	5504.8	5374.1
12.5°	7311.2	7245.9	7105.5	7048.0	6919.5	6790.8	6719.6	6547.4	6470.3	6296.2	6193.3
15°	8168.0	8102.7	7980.1	7920.6	7792.1	7687.2	7592.1	7422.1	7331.0	7168.7	7034.2
17.5°	8999.0	8929.8	8823.0	8769.6	8644.8	8538.0	8435.2	8274.8	8181.9	8019.6	7898.8
20°	9770.8	9719.3	9642.0	9570.9	9446.2	9349.3	9226.6	9088.2	8953.5	8834.8	8720.0
22.5°	10443.4	10423.8	10340.6	10308.9	10202.1	10119.0	10012.1	9875.5	9778.6	9628.3	9521.5
25°	11023.2	11017.4	10977.6	10967.9	10892.7	10813.4	10789.7	10677.0	10588.0	10455.4	10344.5
27.5°	11521.8	11527.8	11517.9	11545.6	11525.9	11490.2	11492.1	11454.6	11403.2	11292.4	11195.3
30°	12075.8	12044.2	12062.0	12101.5	12113.5	12117.4	12182.8	12204.6	12200.5	12127.3	12079.9
32.5°	12859.4	12784.3	12715.0	12709.1	12748.7	12764.5	12875.2	12932.7	12982.1	12999.9	13007.8
35°	13858.7	13708.2	13563.9	13486.8	13419.4	13437.2	13516.3	13609.3	13718.1	13793.4	13882.4
37.5°	15117.0	14933.2	14677.9	14495.8	14450.3	14351.3	14402.9	14476.0	14582.8	14699.7	14854.0
40°	16642.7	16363.6	16076.7	15835.4	15704.8	15522.7	15520.7	15506.9	15572.2	15681.1	15898.7
42.5°	18110.9	17863.5	17558.8	17305.6	17135.3	16892.0	16842.5	16714.0	16743.6	16838.5	17050.3
45°	19486.0	19282.3	19096.3	18803.4	18659.0	18395.9	18312.7	18160.3	18075.2	18118.8	18330.5
47.5°	20817.7	20687.1	20493.3	20303.2	20192.5	19956.9	19850.1	19741.3	19632.5	19628.5	19850.1
50°	23413.8	23344.4	23114.9	22917.1	22970.5	22681.7	22699.5	22406.6	22539.2	22555.0	23020.0
52.5°	25853.4	26094.9	26265.1	26472.8	26607.3	26632.9	26722.2	26854.7	27014.9	27331.6	27762.8
55°	27250.4	27553.2	27729.2	27887.5	28148.7	28204.2	28352.6	28528.6	28669.0	29025.2	29391.4
57.5°	28910.5	29472.4	29745.4	29996.8	30349.0	30483.5	30730.8	30922.8	31104.8	31526.3	31969.5
60°	29933.5	30618.1	31174.2	31571.8	32013.1	32329.7	32703.7	33004.4	33431.9	33936.3	34597.2
62.5°	29120.3	30125.4	30863.4	31546.0	32145.7	32751.1	33287.4	33849.4	34498.2	35262.1	36287.0
65°	25881.2	26904.1	28168.5	28876.8	29670.3	30604.3	31419.5	32329.7	33214.1	34326.2	35841.8
67.5°	20835.5	22024.7	23445.4	24159.6	25071.9	26114.6	27028.8	28140.8	29173.6	30521.2	32394.9
70°	15018.1	16555.7	17750.8	18496.7	19561.2	20635.7	21518.2	22812.2	23666.9	25048.1	26985.3
72.5°	9509.5	10722.4	12186.6	13126.6	14072.4	15160.7	16063.0	17178.8	17976.3	19234.8	20989.8
75°	5113.0	6007.2	7293.3	8185.7	9198.9	10128.8	11185.4	11933.4	12523.1	13518.4	14942.9
77.5°	2396.1	2940.3	3591.3	4277.9	4964.6	5680.8	6377.2	6982.7	7236.0	7805.9	8646.8
80°	1454.4	1630.5	1820.3	2032.1	2319.1	2550.5	2857.1	3078.9	3094.7	3274.7	3532.0
82.5°	971.5	1036.9	1094.2	1147.7	1220.8	1278.2	1343.5	1420.7	1452.4	1493.9	1577.1
85°	662.9	694.5	706.3	740.1	732.1	751.9	777.7	803.4	817.2	815.2	852.9
87.5°	407.7	423.5	431.4	439.4	433.3	425.3	437.2	451.2	455.1	443.3	447.1
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4
2.5°	3626.9	3609.1	3591.3	3579.4	3575.4	3470.6	3425.1	3395.5	3332.2	3280.7	3239.1
5°	4001.0	3963.3	3933.6	3897.9	3878.3	3613.1	3516.1	3448.9	3338.0	3272.7	3213.3
7.5°	4602.3	4497.5	4436.2	4366.9	4307.6	3828.8	3668.5	3563.5	3409.2	3322.2	3254.9
10°	5285.1	5176.3	5079.2	4972.4	4879.5	4115.7	3882.1	3719.9	3516.1	3403.3	3314.2
12.5°	6046.9	5940.0	5817.3	5680.8	5562.0	4479.8	4155.2	3923.7	3644.8	3494.3	3369.7
15°	6947.1	6759.1	6610.7	6452.4	6313.9	4915.0	4473.7	4153.3	3781.2	3577.5	3411.3
17.5°	7784.2	7586.2	7384.4	7245.9	7085.7	5403.8	4794.3	4386.8	3894.1	3630.9	3419.2
20°	8601.4	8385.7	8211.5	8025.5	7857.4	5910.3	5136.7	4592.6	3967.3	3632.8	3369.7
22.5°	9321.5	9187.1	8993.1	8791.4	8621.2	6416.9	5457.3	4766.6	3994.9	3587.3	3282.6
25°	10140.7	9998.2	9760.9	9590.7	9400.8	6933.3	5771.8	4901.2	3979.1	3502.2	3148.1
27.5°	11015.2	10857.0	10613.7	10435.6	10206.1	7469.5	6060.8	4998.2	3919.8	3363.8	2968.0
30°	11927.4	11783.1	11543.6	11363.6	11132.1	8037.3	6383.3	5063.4	3801.1	3171.8	2758.2
32.5°	12906.9	12786.2	12548.9	12360.8	12113.5	8652.7	6684.0	5083.1	3621.0	2944.3	2536.6
35°	13837.0	13753.8	13553.9	13377.9	13120.6	9234.4	7002.6	5073.4	3407.4	2694.9	2334.9
37.5°	14883.7	14834.3	14735.3	14511.6	14197.1	10023.9	7384.4	5031.8	3146.1	2447.6	2180.5
40°	15999.6	16003.6	15896.8	15744.4	15451.6	10981.7	7839.5	4950.6	2861.2	2230.0	2040.1
42.5°	17180.9	17242.2	17190.8	17081.9	16801.0	11947.3	8383.7	4851.7	2584.2	2018.2	1901.5
45°	18534.3	18609.5	18688.7	18528.4	18255.3	13221.6	9099.9	4723.1	2285.4	1842.2	1806.5
47.5°	20095.4	20214.2	20285.4	20287.4	20014.3	14800.6	10263.5	4645.9	2020.3	1723.4	1761.0
50°	23390.0	23427.5	23595.8	23888.5	23678.9	18455.1	12295.6	4598.5	1840.2	1650.2	1727.4
52.5°	28136.8	28550.4	28841.3	28821.5	28536.5	20776.1	13415.5	4353.0	1733.3	1622.5	1711.6
55°	30070.0	30586.4	31124.7	31267.1	31045.6	22756.9	14474.0	4107.7	1681.8	1642.3	1717.5
57.5°	32646.3	33516.9	34254.9	34565.5	34245.0	25291.5	15867.0	3979.1	1666.0	1695.7	1755.1
60°	35655.9	36732.2	37701.8	38259.7	38259.7	28204.2	17311.4	3925.8	1644.3	1775.0	1818.3
62.5°	37588.9	39170.0	40634.2	41451.4	41427.7	30232.3	17952.5	3743.6	1594.9	1830.2	1905.5
65°	37596.9	39476.6	41342.5	42260.7	42308.2	29983.0	16894.0	3306.4	1503.9	1838.2	1992.5
67.5°	34462.7	36467.1	38641.6	39668.6	39906.0	27600.7	14624.4	2718.7	1355.5	1759.1	2024.2
70°	29106.4	31063.3	33283.5	34292.4	34713.9	23528.4	11779.0	2095.4	1165.5	1584.9	1958.9
72.5°	22930.9	24850.3	26395.5	27133.7	27462.2	17984.2	8577.6	1583.0	955.6	1335.6	1782.7
75°	16235.1	17675.6	18496.7	18660.9	18712.4	10841.1	5211.8	1177.3	787.5	1038.8	1505.7
77.5°	9163.3	9780.7	9713.4	9786.6	9177.2	4184.9	2269.6	842.9	649.0	789.5	1167.3
80°	3577.5	3688.4	3464.7	3395.5	3114.5	1557.2	1001.3	587.8	518.4	597.6	817.2
82.5°	1577.1	1628.4	1580.9	1592.9	1523.5	803.4	599.6	425.3	395.8	437.2	542.1
85°	868.7	884.6	880.5	906.2	868.7	320.5	284.9	261.1	276.9	296.8	348.3
87.5°	423.5	427.5	413.5	435.3	421.5	162.2	140.4	148.4	162.2	166.1	166.1
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):

	135°	145°	155°	165°	175°	180°
0°	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4
2.5°	3209.5	3193.6	3195.6	3191.6	3183.8	3183.8
5°	3181.7	3165.8	3165.8	3161.9	3152.1	3153.9
7.5°	3209.5	3183.8	3173.8	3160.0	3146.1	3146.1
10°	3241.1	3195.6	3167.9	3144.1	3126.3	3126.3
12.5°	3264.8	3193.6	3148.1	3116.4	3098.7	3098.7
15°	3272.7	3179.7	3116.4	3078.9	3063.0	3061.1
17.5°	3247.1	3126.3	3049.1	3005.5	2985.8	2979.9
20°	3167.9	3029.4	2936.4	2887.0	2859.1	2849.3
22.5°	3049.1	2890.8	2782.1	2730.6	2694.9	2689.0
25°	2882.9	2712.8	2606.0	2556.4	2536.6	2530.7
27.5°	2689.0	2530.7	2439.6	2408.0	2390.2	2388.2
30°	2505.1	2370.4	2303.2	2279.4	2257.7	2253.7
32.5°	2332.9	2247.7	2222.0	2188.5	2137.0	2131.0
35°	2210.2	2202.3	2184.5	2109.3	2046.0	2028.2
37.5°	2135.0	2208.3	2117.1	1968.7	1923.4	1919.3
40°	2091.4	2146.9	1990.6	1939.1	1943.0	1939.1
42.5°	1992.5	2049.9	1994.4	1970.7	1986.6	1990.6
45°	1893.5	1956.9	2024.2	2008.4	2046.0	2046.0
47.5°	1838.2	1933.2	2022.3	2022.3	2077.6	2097.5
50°	1775.0	1913.4	1990.6	2018.2	2061.8	2046.0
52.5°	1770.9	1879.8	1945.0	1994.4	2014.3	1996.6
55°	1776.8	1852.0	1899.6	1954.9	1978.6	1980.7
57.5°	1784.8	1836.2	1867.8	1893.5	1964.9	1964.9
60°	1804.5	1822.3	1840.2	1854.0	1947.0	1949.1
62.5°	1836.2	1808.5	1804.5	1818.3	1937.1	1929.2
65°	1885.7	1788.7	1759.1	1772.8	1927.3	1903.5
67.5°	1952.9	1759.1	1701.7	1711.6	1919.3	1867.8
70°	2014.3	1711.6	1630.5	1620.5	1844.1	1753.1
72.5°	2020.3	1656.1	1531.5	1501.8	1602.8	1515.7
75°	1921.3	1618.6	1422.6	1335.6	1323.7	1311.9
77.5°	1731.4	1596.7	1296.1	1159.5	1135.7	1143.7
80°	1448.3	1515.7	1143.7	981.4	1110.0	1096.2
82.5°	1082.4	1337.5	971.5	868.7	866.7	765.7
85°	601.5	1042.8	791.4	651.0	453.1	439.4
87.5°	168.3	579.8	554.1	368.0	251.3	261.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)