

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: P453683

Luminaire Tested: **GLAN-SA4D-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4D-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22061 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

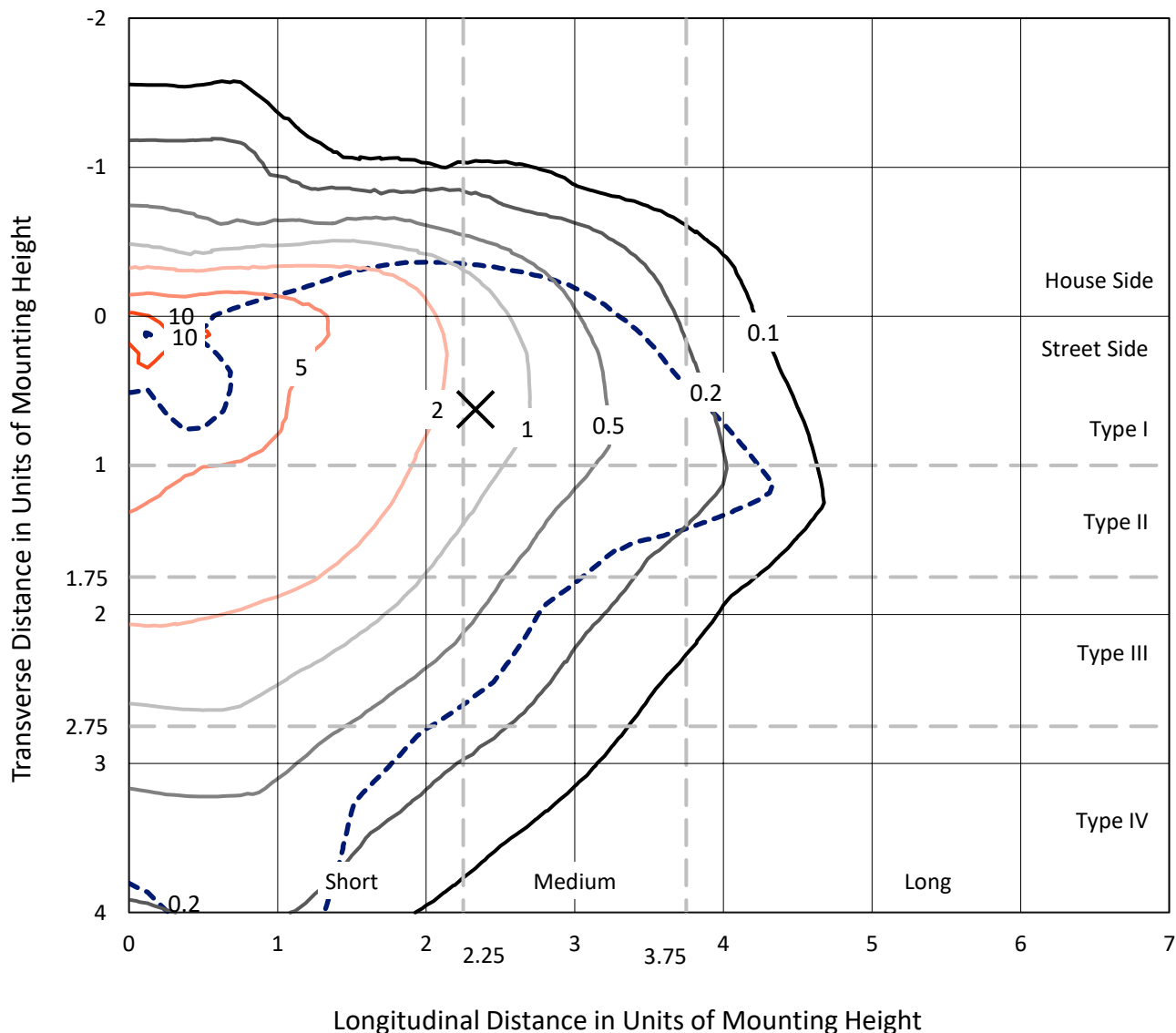
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

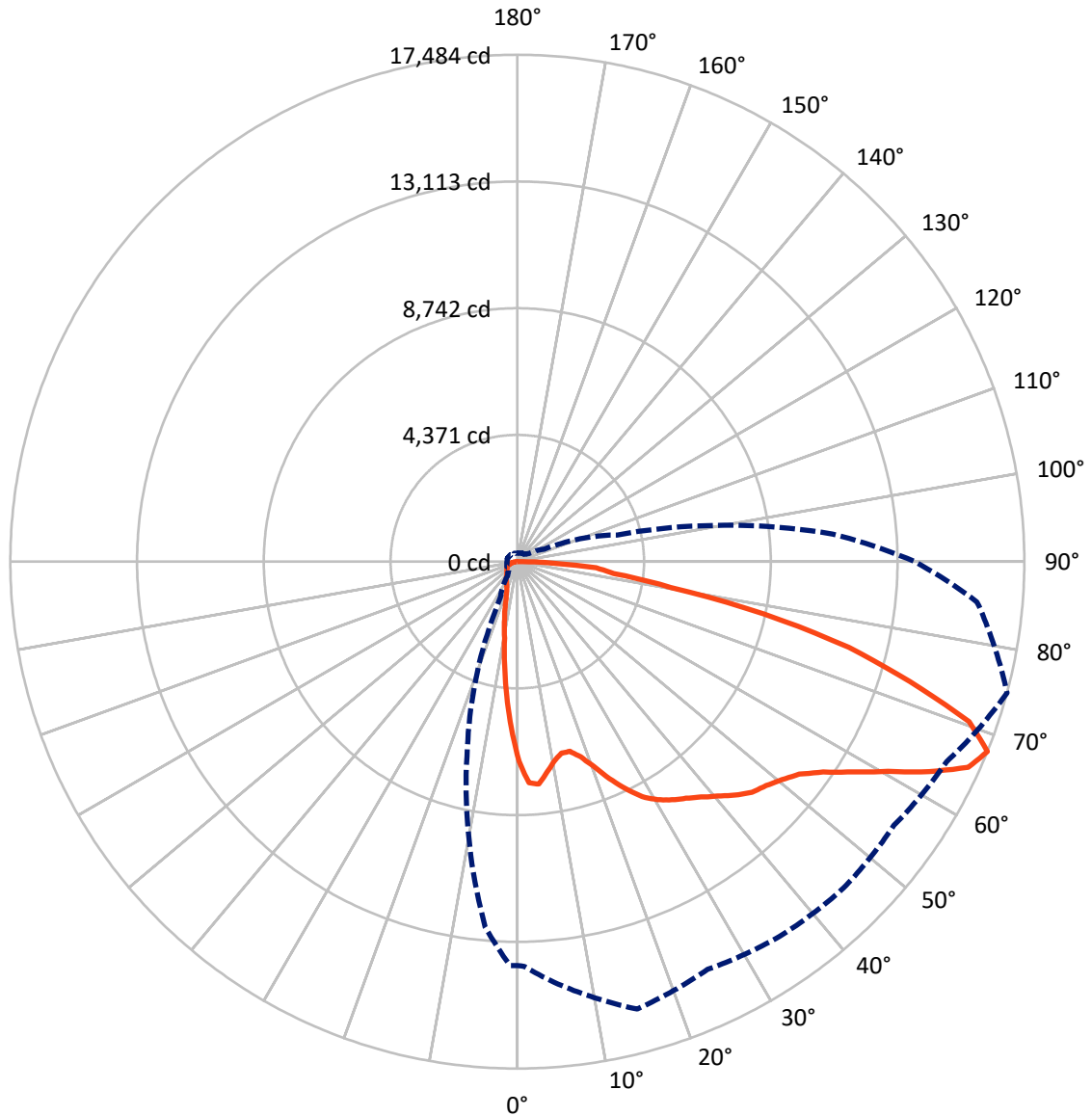
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3728.8	0.0	3728.8
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	18332.2	0.0	18332.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	22061.0	0.0	22061.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.8	2.4
10°-20°	1090.2	4.9
20°-30°	1568.9	7.1
30°-40°	2259.6	10.2
40°-50°	3174.2	14.4
50°-60°	4426.8	20.1
60°-70°	5263.2	23.9
70°-80°	3099.8	14.1
80°-90°	655.5	3.0
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°	22061.0	100.0
0°-180°	22061.0	100.0

Coefficient of Utilization



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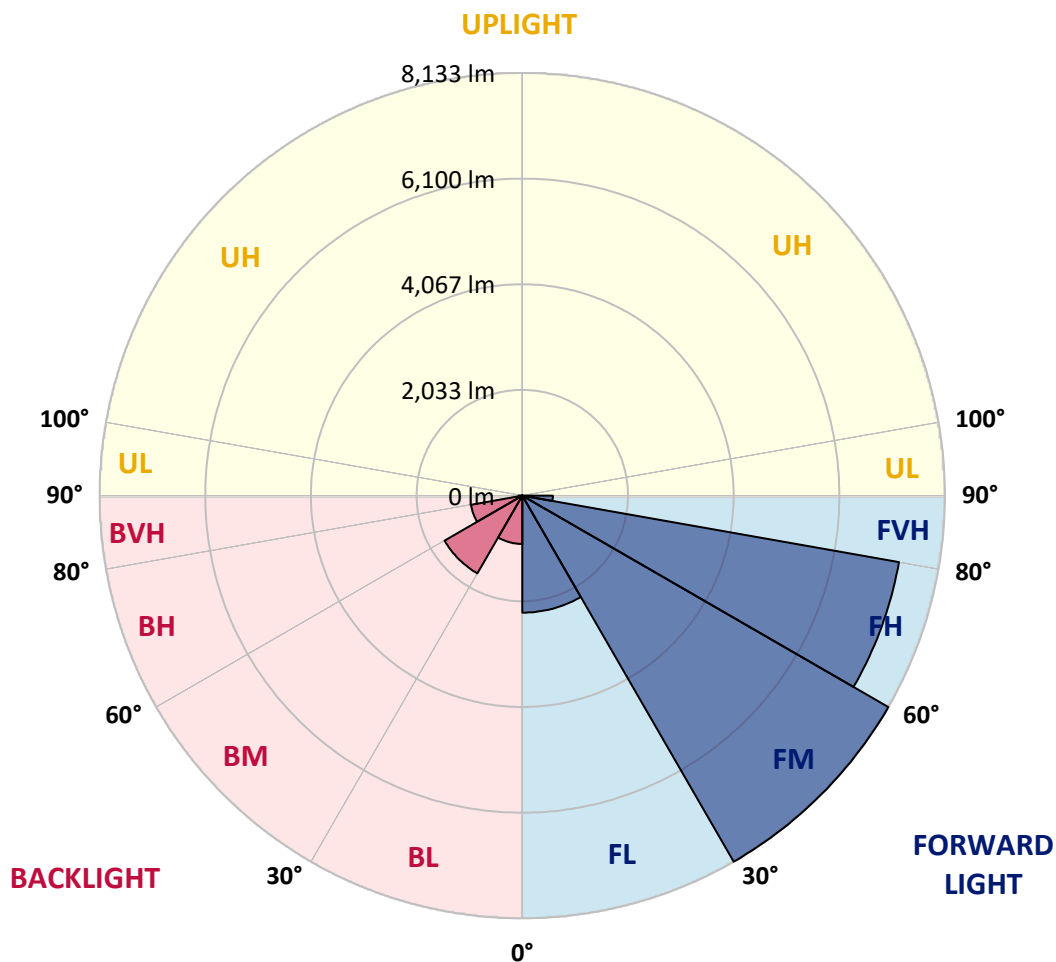
CATALOG NUMBER: GLAN-SA4D-727-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2251.8	10.2			
FM	(30°-60°)	8133.1	36.9			
FH	(60°-80°)	7359.6	33.4			G3/7500
FVH	(80°-90°)	587.7	2.7			G4/750
BL	(0°-30°)	930.1	4.2	B2/1000		
BM	(30°-60°)	1727.6	7.8	B2/2500		
BH	(60°-80°)	1003.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	67.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6892.4	6892.4	6892.4	6892.4	6892.4	6892.4	6892.4	6892.4	6892.4	6892.4	6892.4
2.5°	7431.4	7441.3	7504.9	7690.3	7817.6	7864.3	7896.8	7836.0	7776.6	7632.3	7414.4
5°	7408.7	7466.7	7632.3	8048.2	8376.4	8517.9	8560.3	8377.8	8076.5	7705.8	7260.2
7.5°	6975.8	7053.7	7308.3	8005.7	8584.3	8915.4	8871.5	8541.9	7998.7	7338.0	6715.5
10°	6462.3	6548.6	6855.6	7698.8	8444.3	8899.8	8899.8	8498.1	7776.6	6991.4	6274.2
12.5°	6054.9	6145.4	6496.3	7383.3	8152.9	8584.3	8656.5	8311.3	7616.7	6772.1	5984.1
15°	5920.5	6008.2	6385.9	7192.3	7844.5	8107.6	8131.6	8018.5	7538.9	6787.7	5971.4
17.5°	6087.4	6200.6	6582.6	7248.9	7561.5	7577.1	7595.5	7684.6	7547.4	7072.0	6228.9
20°	6569.8	6691.5	7090.4	7431.4	7314.0	7152.7	7162.6	7391.8	7647.8	7541.7	6844.3
22.5°	7265.9	7372.0	7780.8	7752.5	7209.3	6876.8	6807.5	7127.2	7796.4	8127.4	7499.3
25°	8017.1	8141.6	8611.2	8229.3	7239.0	6712.7	6668.9	6971.6	7950.6	8674.9	8256.1
27.5°	8877.2	8998.9	9369.5	8710.3	7394.6	6700.0	6647.6	6957.5	8089.2	9181.3	8979.0
30°	9516.6	9628.4	9880.2	9114.9	7585.6	6784.9	6719.8	7069.2	8208.0	9527.9	9683.6
32.5°	10018.8	10134.9	10272.1	9366.7	7837.4	6939.1	6818.8	7272.9	8363.7	9792.5	10205.6
35°	10542.3	10679.5	10669.6	9590.2	8072.2	7117.3	6999.9	7567.2	8608.4	10023.1	10867.7
37.5°	11205.8	11260.9	11190.2	9791.1	8353.8	7438.4	7373.4	8004.3	8956.4	10301.8	11641.5
40°	11879.2	11989.5	11625.9	10034.4	8696.1	8042.5	8035.4	8650.8	9369.5	10628.6	12391.3
42.5°	12456.4	12549.7	12033.4	10246.6	9110.6	8779.6	8833.3	9518.0	9911.3	11007.7	12993.9
45°	12890.7	12974.1	12409.7	10451.7	9656.7	9631.2	9948.1	10447.5	10594.6	11348.7	13347.6
47.5°	13259.9	13340.5	12671.4	10763.0	10331.5	10648.4	11200.1	11416.6	11178.9	11543.9	13743.7
50°	13571.1	13595.2	12851.1	11133.6	11169.0	11894.7	12429.5	12569.5	11756.1	11824.0	14087.5
52.5°	13895.1	13864.0	13160.9	11600.5	12074.4	13077.4	13466.5	13612.2	12309.2	12169.2	14588.3
55°	14620.8	14650.5	13855.5	12189.0	12989.7	14238.9	14751.0	14610.9	12921.8	12804.4	15224.9
57.5°	15497.9	15472.5	14833.0	13109.9	13922.0	15319.7	15701.7	15476.7	13739.5	13677.2	15870.0
60°	15838.9	15872.8	15650.7	14100.2	14841.5	16266.1	16656.6	16307.2	14719.9	14691.6	16356.7
62.5°	15496.5	15687.5	15837.5	14981.6	15625.3	16962.2	17349.8	16950.8	15742.7	15947.8	16697.6
65°	14814.7	14855.7	15366.4	15728.5	16003.0	17076.7	17279.0	17066.8	16597.2	17092.3	16682.0
67.5°	13929.1	13964.4	14562.8	15973.3	15516.3	15775.2	15916.7	15854.5	16332.6	17484.2	15913.9
70°	13085.9	13057.6	13690.0	15349.4	13507.5	13114.2	13231.6	13036.4	14093.2	16526.4	14407.2
72.5°	11444.9	11546.7	12225.8	13615.0	10695.1	10055.6	10311.7	9806.6	10839.4	14154.0	11693.8
75°	8964.9	8989.0	10122.1	11426.5	8068.0	7059.3	7405.9	7195.1	8302.8	11807.0	8075.1
77.5°	6207.7	6153.9	7372.0	8727.2	5753.6	5167.9	5173.5	5073.1	5797.4	8693.3	5486.2
80°	3942.7	3860.7	4614.7	5391.4	3954.1	4229.9	4091.3	4087.0	3774.4	5363.1	3317.5
82.5°	2130.5	2221.1	2915.7	3379.7	2836.5	3269.4	2996.3	2908.6	2590.3	3357.1	2122.0
85°	970.5	1055.4	1554.7	2298.9	2154.6	2178.6	1455.7	1717.4	2143.3	2726.1	1133.2
87.5°	94.8	121.7	321.1	1085.1	735.6	580.0	216.4	417.3	539.0	969.1	90.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6892.4	6892.4	6892.4	6892.4	6892.4	6892.4	6892.4	6892.4	6892.4	6892.4	6892.4
2.5°	7325.3	7251.7	7001.3	6794.8	6575.5	6408.6	6190.7	6045.0	5944.5	5793.2	5774.8
5°	6988.6	6808.9	6373.2	5929.0	5545.6	5257.0	4964.2	4695.4	4536.9	4487.4	4423.7
7.5°	6421.3	6118.5	5558.3	5049.0	4609.1	4179.0	3848.0	3613.1	3456.1	3364.1	3253.8
10°	5954.4	5603.6	4921.7	4297.8	3935.7	3668.3	3376.9	3125.1	2931.2	2765.7	2675.2
12.5°	5640.4	5244.3	4477.5	3971.0	3690.9	3406.6	3065.6	2782.7	2496.9	2308.8	2228.1
15°	5545.6	5126.8	4340.3	3808.4	3406.6	3034.5	2652.5	2283.3	2000.4	1822.1	1762.7
17.5°	5777.6	5271.1	4338.9	3591.9	3072.7	2628.5	2139.0	1792.4	1502.4	1369.4	1327.0
20°	6210.5	5548.4	4351.6	3378.3	2710.5	2085.3	1556.2	1271.8	1133.2	1076.6	1055.4
22.5°	6814.6	5971.4	4389.8	3167.5	2314.4	1601.4	1165.7	1021.4	971.9	962.0	957.7
25°	7558.7	6494.9	4518.5	2977.9	1980.6	1222.3	974.7	909.6	881.4	871.5	870.0
27.5°	8243.4	7171.1	4674.1	2815.2	1658.0	1053.9	881.4	826.2	797.9	796.5	799.3
30°	8861.6	7736.9	4804.3	2632.7	1413.3	936.5	820.5	765.3	738.5	737.1	745.5
32.5°	9396.4	8202.4	4900.5	2453.1	1277.5	864.4	765.3	705.9	683.3	679.1	683.3
35°	9967.9	8666.4	4856.6	2313.0	1199.7	805.0	724.3	666.3	639.4	626.7	626.7
37.5°	10620.1	9144.6	4781.7	2197.0	1164.3	755.4	689.0	632.4	605.5	592.8	591.3
40°	11331.7	9622.7	4678.4	2093.7	1128.9	725.7	664.9	605.5	573.0	560.2	557.4
42.5°	11959.8	10031.6	4593.5	2025.8	1070.9	731.4	643.7	585.7	544.7	527.7	526.3
45°	12505.9	10443.3	4577.9	1986.2	1022.8	722.9	638.0	570.1	522.0	503.6	500.8
47.5°	12933.1	10871.9	4667.1	1963.6	970.5	677.6	674.8	560.2	502.2	482.4	479.6
50°	13453.7	11480.2	4870.8	1916.9	922.4	635.2	713.0	558.8	486.7	461.2	454.1
52.5°	14146.9	12272.5	5146.6	1833.4	853.1	595.6	680.5	558.8	468.3	442.8	434.3
55°	15195.2	13282.5	5416.9	1716.0	755.4	543.2	614.0	541.8	441.4	418.7	413.1
57.5°	15889.8	14021.0	5589.4	1553.3	633.8	505.0	529.1	514.9	414.5	390.5	390.5
60°	15925.2	14219.1	5507.4	1348.2	557.4	469.7	459.8	519.2	390.5	365.0	362.2
62.5°	15517.8	13733.8	5080.2	1164.3	516.4	431.5	415.9	455.5	366.4	340.9	336.7
65°	14881.1	12496.0	4338.9	1076.6	493.7	397.5	374.9	373.5	340.9	316.9	311.2
67.5°	13711.2	10920.0	3565.0	1025.7	482.4	359.3	338.1	331.0	311.2	291.4	288.6
70°	11986.7	9146.0	2859.1	1004.4	476.8	319.7	302.7	294.3	277.3	261.7	260.3
72.5°	9325.6	7418.6	2359.7	990.3	473.9	282.9	264.5	253.2	243.3	229.2	229.2
75°	6698.6	5457.9	1800.9	892.7	438.6	243.3	223.5	216.4	202.3	191.0	193.8
77.5°	4222.9	3675.4	1185.5	656.4	339.5	195.2	178.3	174.0	162.7	147.1	157.0
80°	2852.0	2584.6	691.8	413.1	213.6	142.9	137.2	135.8	123.1	106.1	107.5
82.5°	1941.0	1904.2	359.3	234.8	123.1	83.5	80.6	83.5	69.3	56.6	56.6
85°	758.3	1035.6	169.8	92.0	39.6	12.7	18.4	19.8	11.3	5.7	7.1
87.5°	14.1	106.1	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6892.4	6892.4	6892.4	6892.4	6892.4	6892.4	6892.4	6892.4	6892.4	6892.4	6892.4
2.5°	5746.5	5733.7	5755.0	5664.4	5682.8	5716.8	5733.7	5743.6	5883.7	5851.2	5940.3
5°	4483.2	4470.4	4552.5	4563.8	4606.2	4597.7	4638.8	4648.7	4699.6	4718.0	4842.5
7.5°	3260.9	3316.0	3409.4	3457.5	3529.7	3552.3	3531.1	3583.4	3477.3	3553.7	3576.3
10°	2620.0	2553.5	2513.9	2624.3	2638.4	2743.1	2700.6	2666.7	2728.9	2731.8	2791.2
12.5°	2181.5	2038.6	1943.8	1974.9	2008.9	2054.1	2061.2	2129.1	2174.4	2216.8	2252.2
15°	1710.4	1660.8	1574.6	1532.1	1580.2	1598.6	1642.5	1699.0	1747.1	1759.9	1808.0
17.5°	1312.8	1321.3	1307.2	1281.7	1311.4	1325.6	1328.4	1329.8	1342.5	1334.1	1404.8
20°	1056.8	1086.5	1121.9	1127.5	1137.4	1144.5	1131.8	1083.7	1085.1	1114.8	1137.4
22.5°	956.3	962.0	1001.6	1014.3	1045.5	1032.7	995.9	973.3	970.5	977.6	988.9
25°	877.1	885.6	913.9	933.7	957.7	935.1	908.2	887.0	884.2	891.3	902.6
27.5°	806.4	819.1	844.6	864.4	887.0	865.8	840.3	821.9	820.5	819.1	826.2
30°	749.8	763.9	782.3	805.0	820.5	802.1	778.1	768.2	766.8	763.9	766.8
32.5°	693.2	715.8	734.2	745.5	761.1	747.0	728.6	722.9	713.0	704.5	700.3
35°	629.5	653.6	681.9	696.0	711.6	697.4	684.7	660.7	643.7	642.3	645.1
37.5°	592.8	602.7	625.3	649.3	664.9	657.8	633.8	609.7	605.5	605.5	608.3
40°	560.2	564.5	574.4	605.5	633.8	612.6	582.9	575.8	575.8	574.4	575.8
42.5°	527.7	531.9	531.9	556.0	601.2	567.3	544.7	544.7	544.7	546.1	550.3
45°	498.0	499.4	498.0	514.9	557.4	529.1	513.5	517.8	520.6	523.4	526.3
47.5°	472.5	473.9	472.5	486.7	507.9	496.6	488.1	493.7	499.4	503.6	506.5
50°	449.9	448.5	451.3	459.8	469.7	472.5	466.8	475.3	478.2	483.8	490.9
52.5°	430.1	428.7	431.5	435.7	449.9	449.9	449.9	456.9	462.6	468.3	478.2
55°	407.4	408.8	413.1	418.7	437.1	434.3	435.7	441.4	447.0	455.5	461.2
57.5°	386.2	389.0	394.7	403.2	421.6	420.2	421.6	424.4	431.5	435.7	441.4
60°	362.2	367.8	374.9	380.6	398.9	397.5	404.6	410.3	414.5	414.5	417.3
62.5°	338.1	346.6	353.7	357.9	377.7	379.1	389.0	393.3	396.1	393.3	397.5
65°	314.1	326.8	329.6	335.3	355.1	356.5	367.8	377.7	374.9	372.1	379.1
67.5°	290.0	305.6	304.2	311.2	331.0	333.9	343.8	360.7	355.1	352.3	357.9
70°	263.1	274.5	275.9	280.1	307.0	302.7	318.3	333.9	329.6	331.0	331.0
72.5°	233.4	243.3	243.3	251.8	280.1	273.0	285.8	302.7	302.7	301.3	301.3
75°	198.1	203.7	209.4	222.1	251.8	243.3	251.8	267.4	270.2	267.4	267.4
77.5°	159.9	168.3	171.2	188.2	209.4	208.0	216.4	223.5	229.2	226.4	226.4
80°	113.2	121.7	133.0	151.4	164.1	168.3	172.6	178.3	181.1	181.1	183.9
82.5°	63.7	76.4	86.3	104.7	110.3	131.6	130.2	134.4	130.2	114.6	127.3
85°	14.1	26.9	38.2	48.1	55.2	76.4	80.6	90.5	75.0	69.3	69.3
87.5°	0.0	0.0	0.0	0.0	0.0	11.3	22.6	31.1	26.9	22.6	22.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6892.4	6892.4	6892.4	6892.4	6892.4	6892.4	6892.4	6892.4	6892.4	6892.4
2.5°	6015.3	6138.3	6286.9	6542.9	6722.6	6916.4	7111.7	7319.6	7374.8	7431.4
5°	4876.4	5118.4	5249.9	5593.7	5954.4	6412.8	6787.7	7198.0	7369.1	7408.7
7.5°	3693.8	3857.9	4203.0	4551.1	4998.1	5479.1	6053.5	6692.9	6892.4	6975.8
10°	2928.4	3151.9	3454.7	3828.2	4220.0	4737.8	5385.7	6132.7	6415.6	6462.3
12.5°	2492.7	2741.7	3071.3	3466.0	3836.6	4227.1	4880.7	5651.7	5954.4	6054.9
15°	1993.3	2294.6	2675.2	3091.1	3494.3	3921.5	4583.6	5453.6	5803.1	5920.5
17.5°	1566.1	1809.4	2221.1	2672.4	3150.5	3690.9	4521.4	5548.4	5978.5	6087.4
20°	1198.2	1372.3	1718.9	2195.6	2755.8	3463.2	4536.9	5906.3	6421.3	6569.8
22.5°	1035.6	1124.7	1335.5	1789.6	2416.3	3265.1	4600.6	6397.2	7018.3	7265.9
25°	937.9	984.6	1103.5	1400.5	2092.3	3072.7	4746.3	7057.9	7853.0	8017.1
27.5°	854.5	888.4	962.0	1175.6	1798.1	2894.5	4916.1	7790.7	8632.4	8877.2
30°	775.3	820.5	889.8	1044.0	1609.9	2731.8	5129.7	8384.9	9288.9	9516.6
32.5°	714.4	759.7	823.4	952.1	1450.1	2560.6	5257.0	8906.9	9825.0	10018.8
35°	664.9	703.1	769.6	878.5	1328.4	2430.4	5231.5	9321.4	10344.2	10542.3
37.5°	629.5	662.1	728.6	809.2	1236.4	2294.6	5218.8	9868.9	10976.6	11205.8
40°	597.0	631.0	691.8	763.9	1144.5	2134.8	5225.9	10412.1	11650.0	11879.2
42.5°	571.5	609.7	659.2	751.2	1049.7	2006.0	5225.9	10884.6	12235.7	12456.4
45°	550.3	591.3	639.4	749.8	974.7	1908.4	5190.5	11290.7	12702.5	12890.7
47.5°	531.9	577.2	646.5	724.3	956.3	1837.7	5159.4	11616.0	13083.1	13259.9
50°	519.2	573.0	687.5	694.6	962.0	1816.5	5309.3	12026.3	13418.4	13571.1
52.5°	509.3	574.4	686.1	650.8	952.1	1830.6	5622.0	12667.2	13883.8	13895.1
55°	489.5	573.0	650.8	601.2	911.1	1854.7	6023.8	13598.0	14612.4	14620.8
57.5°	469.7	557.4	604.1	558.8	827.6	1854.7	6507.6	14479.4	15490.9	15497.9
60°	449.9	580.0	530.5	522.0	718.7	1820.7	7018.3	14867.0	15766.7	15838.9
62.5°	430.1	584.3	473.9	489.5	639.4	1738.7	7398.8	14438.3	15393.3	15496.5
65°	407.4	471.1	437.1	455.5	598.4	1601.4	7278.6	13653.2	14691.6	14814.7
67.5°	380.6	398.9	397.5	420.2	584.3	1399.1	6644.8	12660.1	13936.1	13929.1
70°	348.0	357.9	362.2	386.2	557.4	1242.1	5537.1	11371.3	12927.5	13085.9
72.5°	314.1	322.5	326.8	348.0	530.5	1153.0	4297.8	9595.9	11197.3	11444.9
75°	277.3	282.9	288.6	307.0	502.2	1021.4	3061.4	7325.3	8575.9	8964.9
77.5°	239.1	239.1	246.2	264.5	423.0	843.2	2054.1	5138.2	5810.1	6207.7
80°	193.8	195.2	192.4	212.2	311.2	577.2	1167.1	3432.0	3866.4	3942.7
82.5°	148.5	144.3	145.7	155.6	232.0	393.3	622.5	2131.9	2173.0	2130.5
85°	93.4	93.4	90.5	101.9	148.5	205.1	339.5	1305.8	1020.0	970.5
87.5°	38.2	31.1	35.4	41.0	70.7	83.5	133.0	268.8	103.3	94.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)