

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: P654321

Luminaire Tested: **GLAN-SA4B-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P654321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4B-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13595.6 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

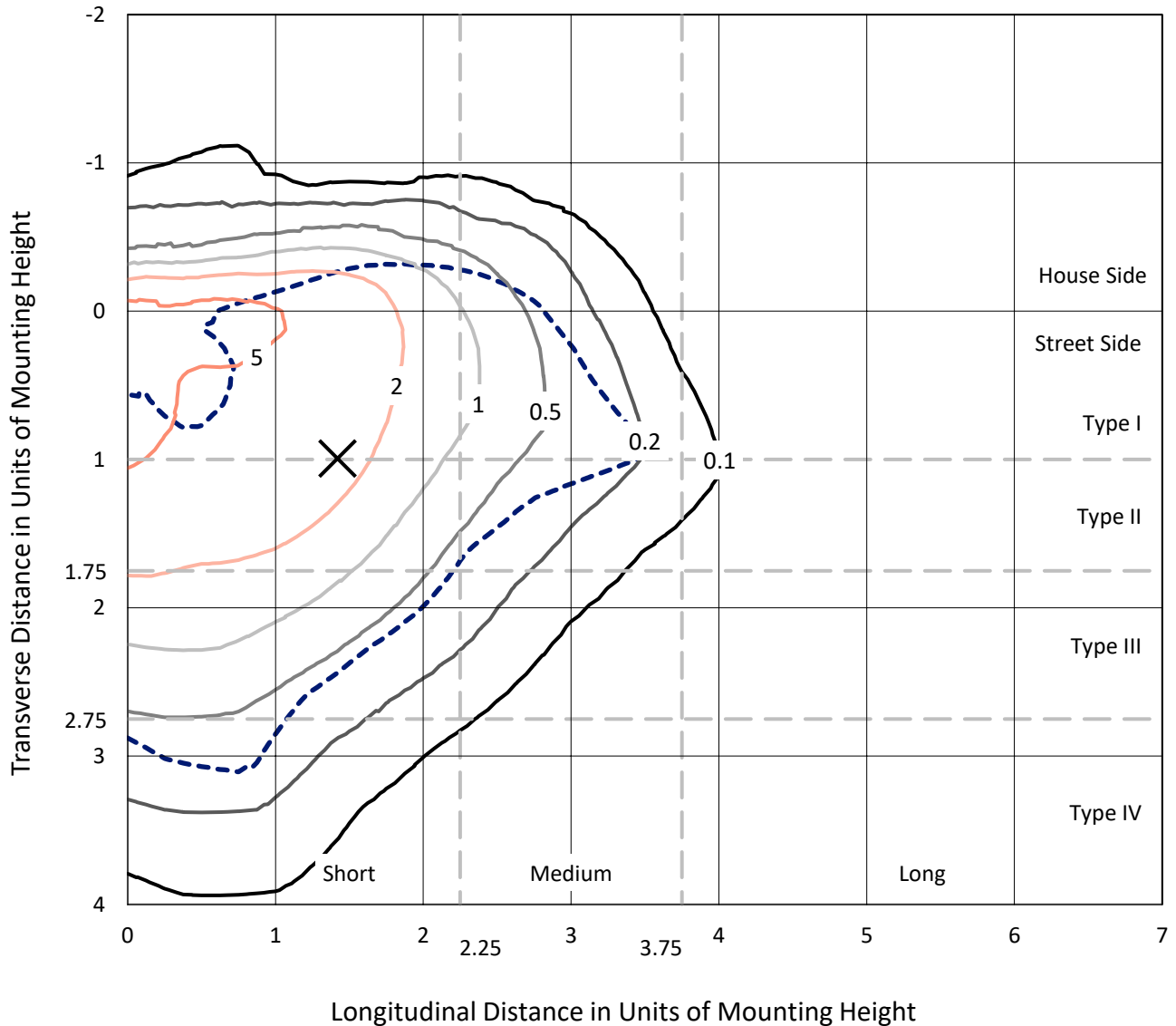
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

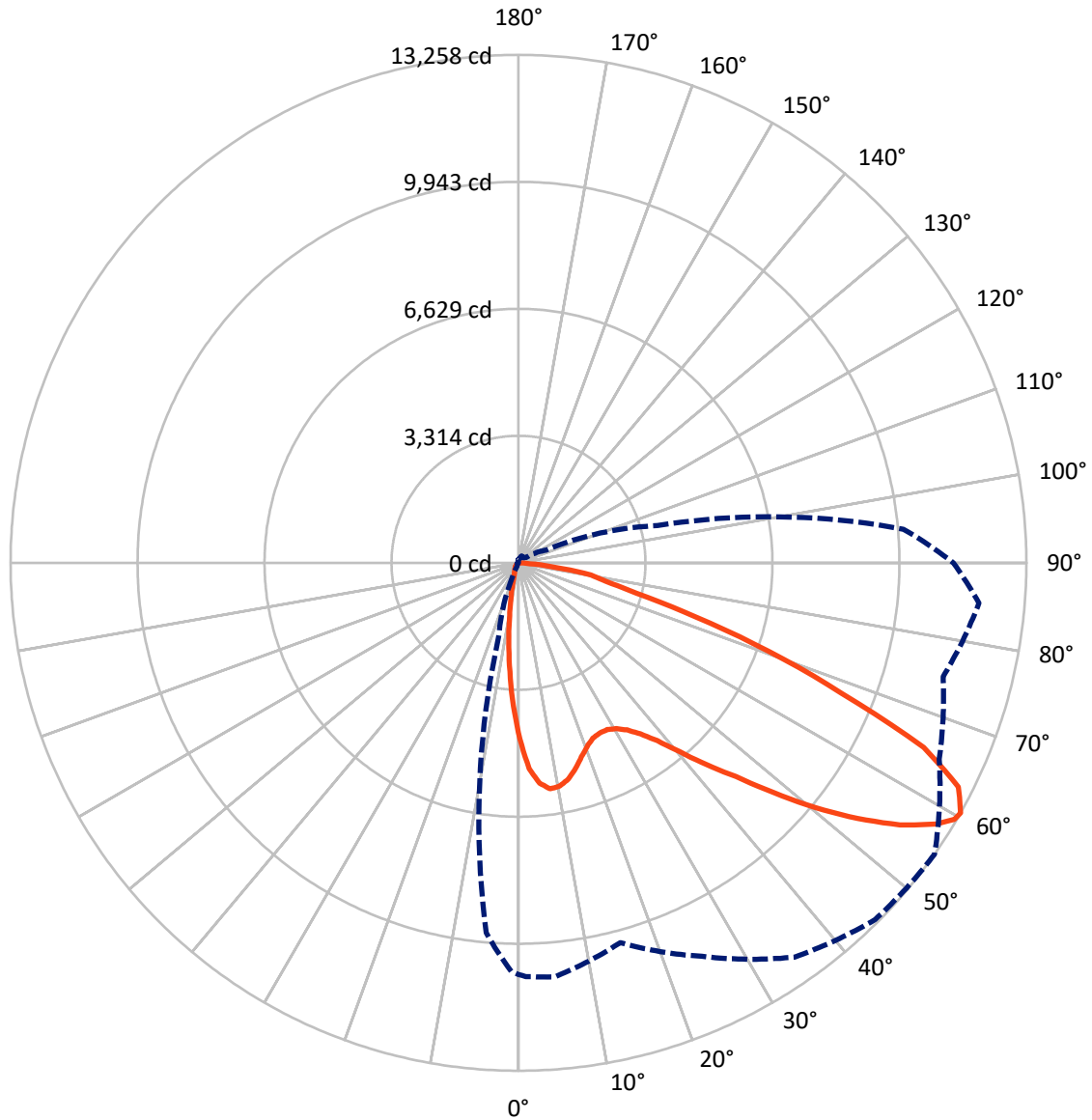
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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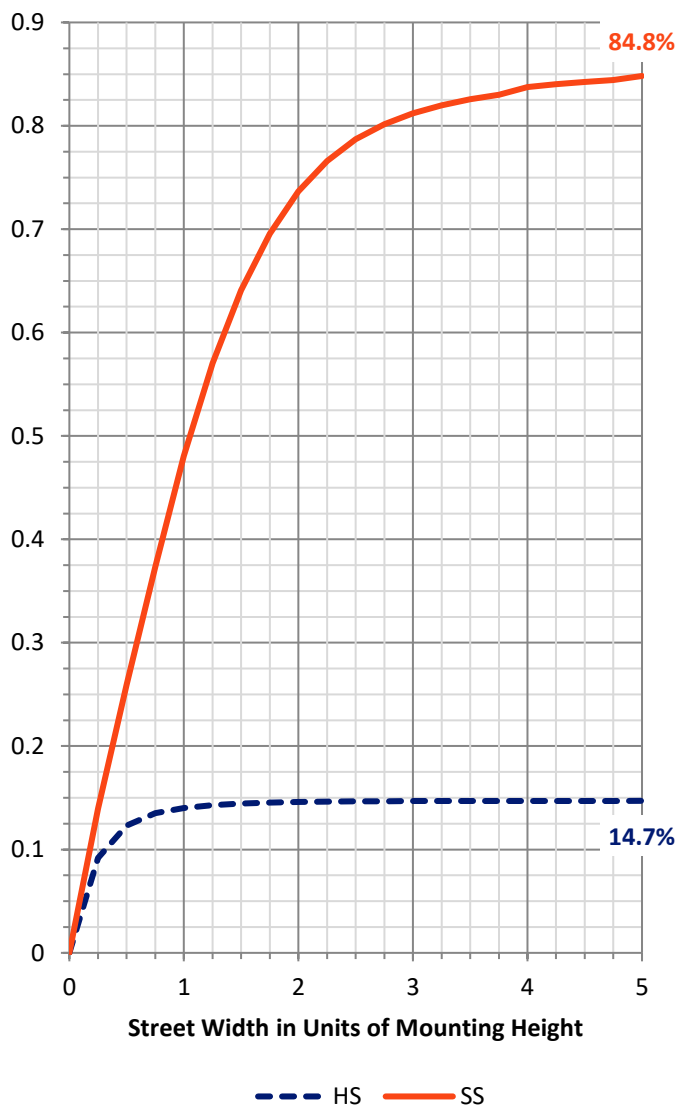
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2017.7	0.0	2017.7
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	11577.9	0.0	11577.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	13595.6	0.0	13595.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.9	2.5
10°-20°	671.3	4.9
20°-30°	993.6	7.3
30°-40°	1481.1	10.9
40°-50°	2169.1	16.0
50°-60°	3131.5	23.0
60°-70°	3294.2	24.2
70°-80°	1355.1	10.0
80°-90°	158.7	1.2
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°	13595.6	100.0
0°-180°	13595.6	100.0

Coefficient of Utilization

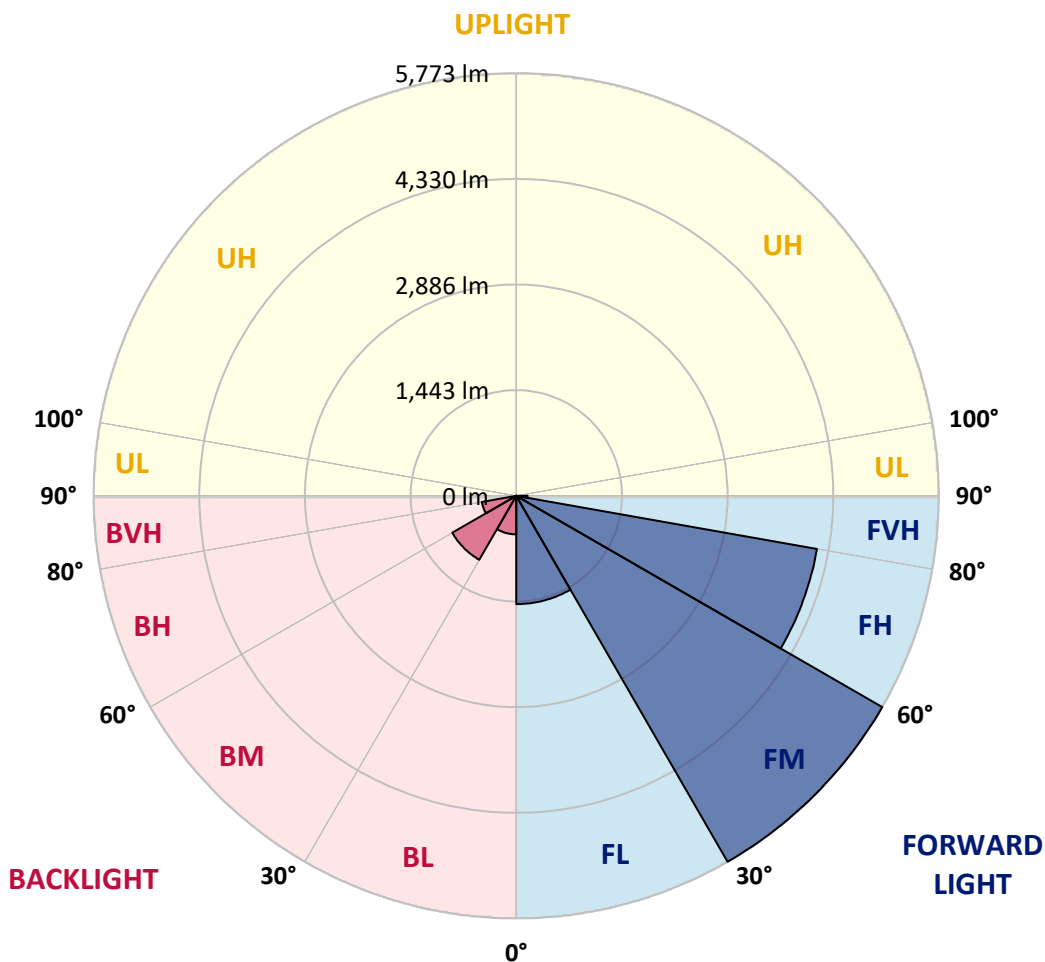


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1479.4	10.9			
FM (30°-60°)	5772.7	42.5			
FH (60°-80°)	4171.7	30.7			G2/5000
FVH (80°-90°)	154.0	1.1			G2/225
BL (0°-30°)	526.4	3.9	B2/1000		
BM (30°-60°)	1009.0	7.4	B2/2500		
BH (60°-80°)	477.6	3.5	B1/500		G1/500
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4603.5	4603.5	4603.5	4603.5	4603.5	4603.5	4603.5	4603.5	4603.5	4603.5	4603.5
2.5°	5029.3	5020.9	5095.3	5216.6	5339.1	5402.9	5390.4	5385.2	5283.7	5209.3	5053.4
5°	5018.9	5061.8	5194.7	5523.3	5772.4	5892.7	5928.3	5778.6	5580.9	5294.1	4940.4
7.5°	4718.5	4771.9	4988.6	5502.3	5945.0	6206.7	6197.2	5957.6	5549.4	5105.7	4601.4
10°	4346.0	4408.8	4663.1	5286.8	5861.3	6206.7	6225.5	5922.0	5414.4	4845.2	4314.6
12.5°	4083.3	4157.7	4439.1	5085.9	5645.7	5985.8	6007.8	5788.0	5312.9	4744.7	4158.7
15°	3994.4	4064.5	4350.2	4984.4	5416.5	5599.7	5594.4	5571.5	5273.2	4768.8	4167.1
17.5°	4147.1	4204.7	4527.0	5030.4	5202.0	5183.2	5210.4	5321.3	5281.6	4970.7	4430.8
20°	4541.7	4600.3	4946.7	5171.6	5037.8	4918.4	4931.0	5116.2	5359.0	5350.6	4843.1
22.5°	5084.8	5184.3	5498.2	5445.8	5015.7	4754.1	4727.9	4968.6	5490.8	5788.0	5399.8
25°	5772.4	5872.8	6117.7	5883.3	5123.5	4715.4	4691.4	4923.6	5650.9	6215.0	6026.6
27.5°	6350.0	6426.4	6670.2	6309.2	5282.6	4732.1	4692.4	4929.9	5780.7	6578.1	6555.1
30°	6812.5	6869.0	7012.4	6508.0	5419.7	4805.4	4759.4	5022.0	5838.3	6755.0	6983.1
32.5°	7185.1	7280.3	7325.3	6720.4	5616.5	4943.6	4865.0	5198.9	5978.5	6973.7	7432.1
35°	7611.0	7720.9	7663.4	6923.4	5876.0	5159.1	5062.8	5485.6	6190.9	7175.7	7953.2
37.5°	8151.0	8277.6	8052.6	7137.0	6150.1	5483.5	5438.5	5888.5	6513.2	7464.5	8512.0
40°	8709.8	8783.1	8430.4	7396.5	6487.1	5955.5	5998.3	6487.1	6935.0	7810.9	9106.4
42.5°	9146.2	9215.3	8818.6	7614.2	6831.4	6515.3	6694.3	7209.1	7418.5	8165.6	9550.1
45°	9480.0	9538.6	9087.6	7851.7	7296.0	7326.4	7664.4	7953.2	7903.0	8382.2	9892.3
47.5°	9739.5	9789.7	9294.7	8107.0	7991.9	8318.4	8835.4	8957.8	8405.3	8616.6	10202.1
50°	9846.3	9860.9	9359.7	8432.5	8782.0	9582.5	10121.5	10047.2	8980.9	8877.3	10531.7
52.5°	9985.4	9982.3	9544.8	8742.2	9525.0	10712.7	11250.6	11082.1	9631.7	9267.6	10902.1
55°	10350.7	10354.8	9941.5	9181.8	10158.1	11625.2	12200.8	12078.4	10318.2	9926.8	11334.3
57.5°	10794.4	10810.0	10505.5	9695.6	10762.9	12286.7	12910.4	12863.3	11246.4	10660.4	11742.5
59°	10851.9	10883.3	10772.4	10057.7	11121.9	12489.7	13153.2	13199.2	11743.6	11143.9	11963.3
60°	10747.3	10799.6	10849.8	10262.7	11332.2	12562.9	13167.8	13257.8	12117.1	11472.5	12063.7
62.5°	10291.0	10373.7	10625.9	10893.8	11595.0	12334.8	12700.0	12888.3	12579.7	12335.8	12073.1
65°	9693.5	9736.4	10100.6	11005.7	11085.3	11269.5	11382.5	11624.2	12023.9	12668.6	11641.0
67.5°	8714.0	8840.6	9286.4	10355.9	9581.5	9363.9	9335.6	9094.9	10133.0	11875.3	10575.7
70°	7198.7	7255.2	7804.6	8490.1	7231.1	6896.3	7030.2	6940.2	7854.9	10223.0	8512.0
72.5°	5443.8	5571.5	6108.3	6767.5	4920.5	4486.2	4855.6	4822.1	5900.0	8215.9	5847.7
75°	3873.0	3955.6	4640.0	5296.2	3446.0	2919.7	3052.6	3177.1	4118.9	6487.1	3455.4
77.5°	2661.2	2732.3	3246.2	3502.5	2513.7	2408.0	2202.8	2323.2	2698.9	3848.9	1880.5
80°	1605.3	1602.2	1940.2	2002.9	1750.7	2033.3	1705.7	1915.0	1631.5	1647.2	728.3
82.5°	1042.3	1031.8	1186.7	1293.5	974.3	1024.5	687.5	991.0	1063.2	459.4	230.3
85°	466.8	486.6	570.4	752.4	427.0	227.1	140.2	304.5	453.1	231.3	0.0
87.5°	48.1	37.7	100.5	183.2	58.6	6.3	20.9	10.4	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4603.5	4603.5	4603.5	4603.5	4603.5	4603.5	4603.5	4603.5	4603.5	4603.5	4603.5
2.5°	4981.2	4920.5	4739.5	4569.9	4424.5	4246.5	4131.5	3950.4	3840.6	3807.0	3812.3
5°	4781.3	4606.6	4262.3	3987.1	3680.5	3505.7	3239.9	2984.5	2846.4	2795.1	2772.1
7.5°	4362.8	4175.4	3759.9	3327.8	2999.2	2692.5	2494.8	2269.8	2116.0	1989.4	1967.4
10°	4051.9	3806.0	3291.2	2826.5	2567.0	2336.8	2139.0	1914.0	1733.0	1588.6	1548.8
12.5°	3865.7	3590.5	3015.9	2626.6	2380.7	2144.2	1886.8	1626.2	1441.0	1285.0	1212.9
15°	3832.2	3513.0	2938.5	2483.3	2179.8	1894.1	1551.9	1270.4	1079.9	932.4	887.4
17.5°	4034.2	3652.2	2927.0	2333.6	1917.1	1512.1	1156.4	923.0	708.5	625.8	593.3
20°	4394.1	3898.1	2925.9	2159.9	1647.2	1164.7	812.1	601.7	514.9	475.1	456.2
22.5°	4884.9	4233.0	2981.4	2010.2	1366.7	859.2	579.8	479.3	429.1	396.6	389.3
25°	5484.6	4729.0	3117.4	1908.7	1152.2	673.9	478.3	410.2	368.4	353.7	347.4
27.5°	6017.2	5204.1	3267.1	1804.1	998.4	596.5	443.7	375.7	342.2	330.7	321.3
30°	6476.6	5635.3	3339.3	1666.0	874.9	546.2	450.0	401.8	357.9	323.4	307.6
32.5°	6859.6	5966.0	3386.4	1540.4	770.2	446.8	355.8	310.8	290.9	278.4	267.9
35°	7338.9	6323.8	3358.1	1469.2	716.9	407.0	324.4	267.9	234.4	209.3	198.8
37.5°	7841.2	6681.7	3308.9	1410.6	692.7	377.8	308.7	254.3	217.7	191.5	177.9
40°	8361.3	7013.4	3251.4	1356.2	670.8	358.9	299.3	242.8	206.1	177.9	163.2
42.5°	8837.5	7336.8	3228.3	1320.6	635.2	362.1	292.0	237.6	194.6	165.3	152.8
45°	9222.6	7643.4	3259.8	1301.8	596.5	356.8	294.1	231.3	185.2	156.9	144.4
47.5°	9633.8	8076.7	3361.3	1282.9	558.8	331.7	309.7	230.3	181.1	151.7	138.2
50°	10112.1	8631.3	3593.6	1236.9	512.8	304.5	329.7	229.2	175.8	145.5	131.9
52.5°	10749.4	9261.3	3833.2	1156.4	445.8	278.4	315.0	226.1	165.3	138.2	124.6
55°	11321.8	9924.7	4036.2	1061.1	361.0	240.7	283.6	212.4	147.5	125.6	113.0
57.5°	11558.3	10299.4	4030.0	929.3	288.8	211.4	233.4	194.6	128.8	110.9	100.5
59°	11471.4	10252.3	3895.0	831.9	263.7	195.7	193.6	192.6	120.3	100.5	92.1
60°	11349.0	10080.6	3749.5	783.8	248.0	185.2	177.9	190.5	113.0	94.2	85.8
62.5°	10880.2	9369.1	3267.1	702.2	227.1	156.9	142.3	161.1	100.5	81.7	74.3
65°	10201.0	8275.5	2765.8	679.2	220.8	129.8	118.2	115.1	85.8	69.0	62.8
67.5°	8876.2	7003.0	2240.5	663.5	222.9	108.8	103.6	86.9	71.1	57.5	53.4
70°	7106.6	5460.5	1834.5	645.6	225.0	89.0	86.9	69.0	57.5	48.1	44.0
72.5°	4317.8	3236.8	1444.2	560.9	218.7	71.1	77.5	52.3	41.9	34.6	32.5
75°	2669.6	2215.4	895.7	436.4	144.4	52.3	54.4	32.5	28.3	22.0	22.0
77.5°	1546.7	1399.2	320.3	156.9	63.8	31.4	24.1	16.7	15.7	9.4	9.4
80°	641.5	513.9	110.9	53.4	34.6	14.6	5.2	1.0	0.0	0.0	0.0
82.5°	187.3	166.3	30.4	24.1	10.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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°	4603.5	4603.5	4603.5	4603.5	4603.5	4603.5	4603.5	4603.5	4603.5	4603.5	4603.5
2.5°	3723.4	3688.8	3673.2	3726.5	3677.3	3740.1	3692.0	3712.8	3774.7	3801.8	3872.0
5°	2786.7	2751.2	2734.4	2815.0	2810.8	2850.6	2846.4	2883.0	2914.4	2844.3	2916.5
7.5°	1941.2	1917.1	1956.9	2019.7	2086.7	2064.7	2064.7	2015.5	2032.3	2021.8	2018.7
10°	1476.5	1393.9	1372.9	1370.9	1396.0	1401.2	1372.9	1305.0	1330.0	1337.4	1381.3
12.5°	1161.6	1097.8	1000.5	956.5	944.9	954.4	861.3	801.6	829.8	813.1	856.1
15°	833.0	780.7	723.1	673.9	660.4	641.5	540.0	468.9	460.4	463.6	470.9
17.5°	594.4	558.8	558.8	506.5	478.3	421.8	370.5	339.1	335.9	339.1	344.3
20°	438.5	419.7	417.6	403.9	372.6	334.9	299.3	293.0	290.9	296.1	298.2
22.5°	377.8	357.9	341.1	340.1	310.8	279.4	262.6	254.3	255.3	257.4	262.6
25°	338.0	317.1	299.3	288.8	267.9	245.9	230.3	226.1	226.1	229.2	230.3
27.5°	309.7	283.6	267.9	253.2	234.4	215.5	202.0	198.8	196.7	198.8	204.0
30°	289.9	263.7	243.8	221.9	207.2	189.4	177.9	173.8	172.7	173.8	177.9
32.5°	248.0	232.3	216.6	196.7	179.0	167.4	154.9	147.5	147.5	149.6	153.8
35°	187.3	179.0	177.9	172.7	158.0	145.5	130.8	123.5	123.5	127.7	129.8
37.5°	165.3	149.6	147.5	145.5	139.2	122.4	108.8	102.5	101.5	104.6	108.8
40°	150.7	132.9	123.5	121.4	122.4	103.6	89.0	82.7	82.7	83.7	87.9
42.5°	139.2	118.2	101.5	99.4	103.6	86.9	72.2	65.9	65.9	65.9	71.1
45°	129.8	105.7	85.8	75.4	81.7	71.1	58.6	52.3	50.2	52.3	54.4
47.5°	123.5	96.3	75.4	60.7	60.7	56.5	47.1	39.8	37.7	38.7	41.9
50°	118.2	87.9	63.8	49.2	44.0	45.0	35.6	30.4	28.3	28.3	31.4
52.5°	109.9	79.6	55.4	41.9	33.5	30.4	26.2	22.0	20.9	22.0	24.1
55°	99.4	72.2	48.1	34.6	26.2	20.9	18.8	15.7	14.6	15.7	18.8
57.5°	87.9	60.7	38.7	27.2	17.8	13.6	12.5	10.4	8.4	9.4	11.5
59°	80.6	54.4	33.5	22.0	13.6	9.4	9.4	7.3	5.2	6.3	9.4
60°	77.5	50.2	28.3	18.8	11.5	7.3	7.3	5.2	3.1	4.2	7.3
62.5°	65.9	41.9	22.0	11.5	5.2	1.0	3.1	1.0	0.0	1.0	3.1
65°	55.4	33.5	14.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0
67.5°	46.1	25.1	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	36.7	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	25.1	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	15.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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



REPORT NUMBER: P654321
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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4603.5	4603.5	4603.5	4603.5	4603.5	4603.5	4603.5	4603.5	4603.5	4603.5
2.5°	3876.2	4025.8	4117.9	4291.6	4469.5	4606.6	4778.2	4932.0	4995.9	5029.3
5°	2989.8	3198.0	3374.8	3639.6	3885.6	4184.8	4488.3	4846.2	4983.3	5018.9
7.5°	2098.2	2310.6	2495.8	2802.5	3153.0	3553.8	4008.0	4462.2	4662.0	4718.5
10°	1515.3	1742.4	1968.4	2275.1	2602.6	3036.9	3509.8	4071.8	4302.1	4346.0
12.5°	956.5	1200.3	1567.6	1946.4	2292.8	2642.3	3137.4	3748.5	4002.7	4083.3
15°	554.6	736.7	1014.0	1508.0	1948.5	2411.1	2951.1	3627.1	3911.7	3994.4
17.5°	371.5	434.3	624.8	1002.6	1584.4	2197.6	2904.0	3726.5	4041.5	4147.1
20°	312.9	341.1	408.1	611.2	1220.2	2007.1	2916.5	3996.5	4409.9	4541.7
22.5°	275.3	301.4	344.3	439.5	851.8	1770.6	2976.1	4382.6	4916.3	5084.8
25°	242.8	269.0	306.6	364.2	572.4	1497.5	3107.0	4947.7	5587.1	5772.4
27.5°	215.5	239.6	272.1	321.3	440.6	1193.0	3223.1	5498.2	6199.3	6350.0
30°	190.5	210.3	241.7	279.4	366.3	919.9	3281.8	5979.5	6645.1	6812.5
32.5°	165.3	184.2	214.5	244.9	301.4	701.1	3241.0	6333.2	7078.4	7185.1
35°	141.3	161.1	186.3	214.5	260.5	566.2	3036.9	6730.9	7527.3	7611.0
37.5°	121.4	138.2	164.3	186.3	235.5	453.1	2789.9	7088.8	8030.6	8151.0
40°	102.5	119.3	145.5	165.3	216.6	356.8	2567.0	7486.5	8561.2	8709.8
42.5°	83.7	103.6	126.7	159.0	186.3	272.1	2297.0	7808.8	8959.9	9146.2
45°	66.9	89.0	114.0	158.0	162.2	207.2	2036.4	8060.0	9312.6	9480.0
47.5°	53.4	75.4	109.9	147.5	132.9	164.3	1887.9	8322.6	9605.6	9739.5
50°	42.9	62.8	115.1	129.8	110.9	139.2	1883.7	8615.6	9757.3	9846.3
52.5°	34.6	51.3	97.3	99.4	94.2	122.4	1996.7	8945.2	9912.2	9985.4
55°	29.3	42.9	63.8	73.3	84.8	110.9	2081.5	9452.8	10281.6	10350.7
57.5°	23.0	36.7	49.2	58.6	75.4	101.5	2092.9	9844.2	10749.4	10794.4
59°	19.8	31.4	44.0	52.3	69.0	95.2	2045.8	9868.2	10779.7	10851.9
60°	16.7	28.3	38.7	49.2	63.8	90.0	1994.6	9693.5	10666.7	10747.3
62.5°	12.5	22.0	28.3	39.8	52.3	77.5	1751.8	9083.4	10234.5	10291.0
65°	8.4	15.7	20.9	29.3	40.8	66.9	1427.4	8292.3	9566.9	9693.5
67.5°	5.2	11.5	16.7	22.0	33.5	56.5	1017.2	7110.8	8632.4	8714.0
70°	3.1	7.3	12.5	17.8	26.2	45.0	603.8	5620.6	7182.0	7198.7
72.5°	2.1	5.2	8.4	12.5	20.9	40.8	293.0	3663.7	5243.9	5443.8
75°	1.0	3.1	5.2	9.4	16.7	33.5	140.2	2447.7	3815.4	3873.0
77.5°	0.0	1.0	3.1	6.3	12.5	26.2	81.7	1607.4	2601.5	2661.2
80°	0.0	0.0	2.1	5.2	9.4	16.7	49.2	948.1	1575.9	1605.3
82.5°	0.0	0.0	1.0	4.2	6.3	12.5	25.1	416.5	1031.8	1042.3
85°	0.0	0.0	1.0	4.2	5.2	8.4	9.4	56.5	458.3	466.8
87.5°	0.0	0.0	1.0	5.2	5.2	5.2	5.2	3.1	38.7	48.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)