

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: P319598

Luminaire Tested: **GAN-SA4B-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19280 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

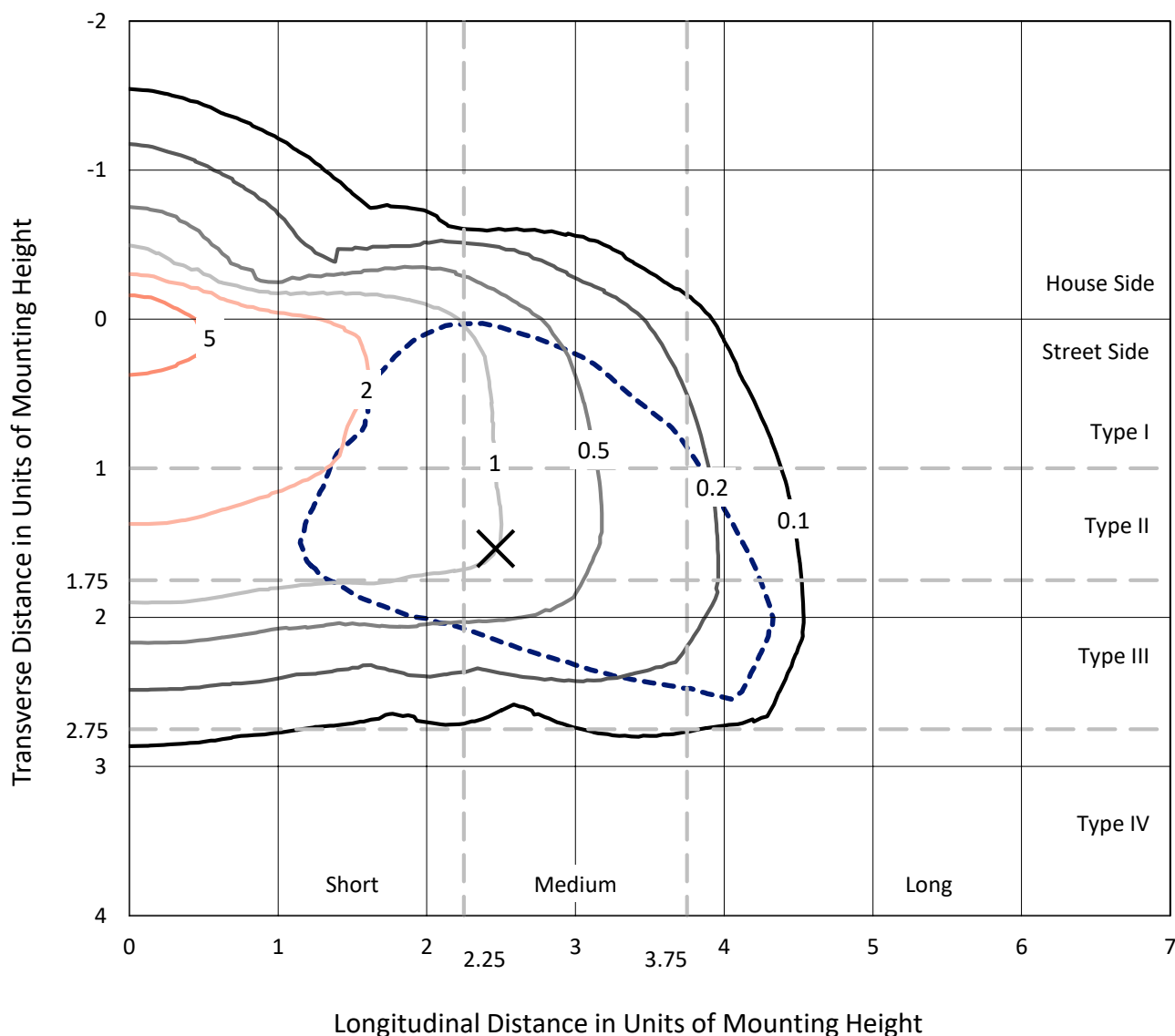
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

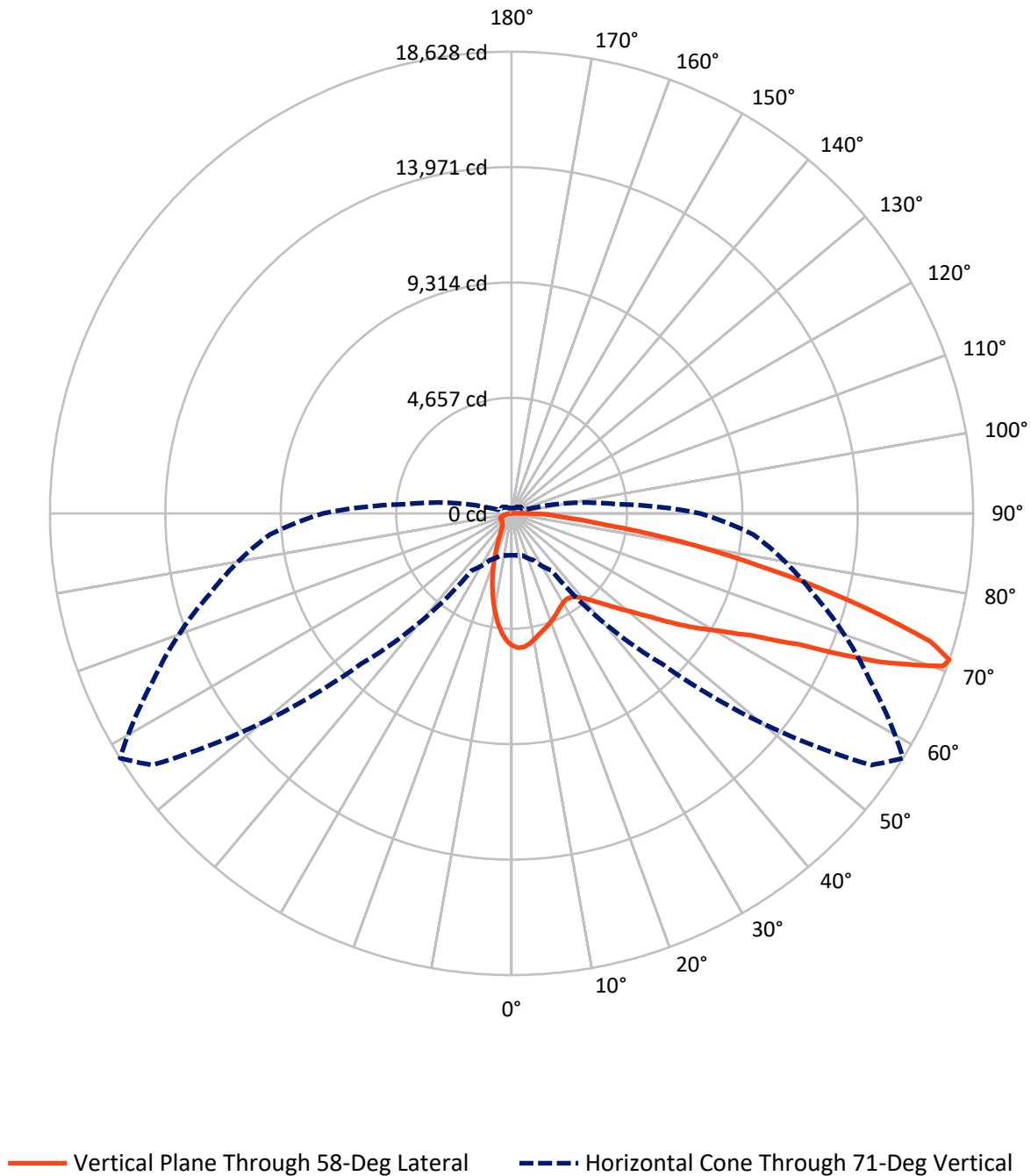
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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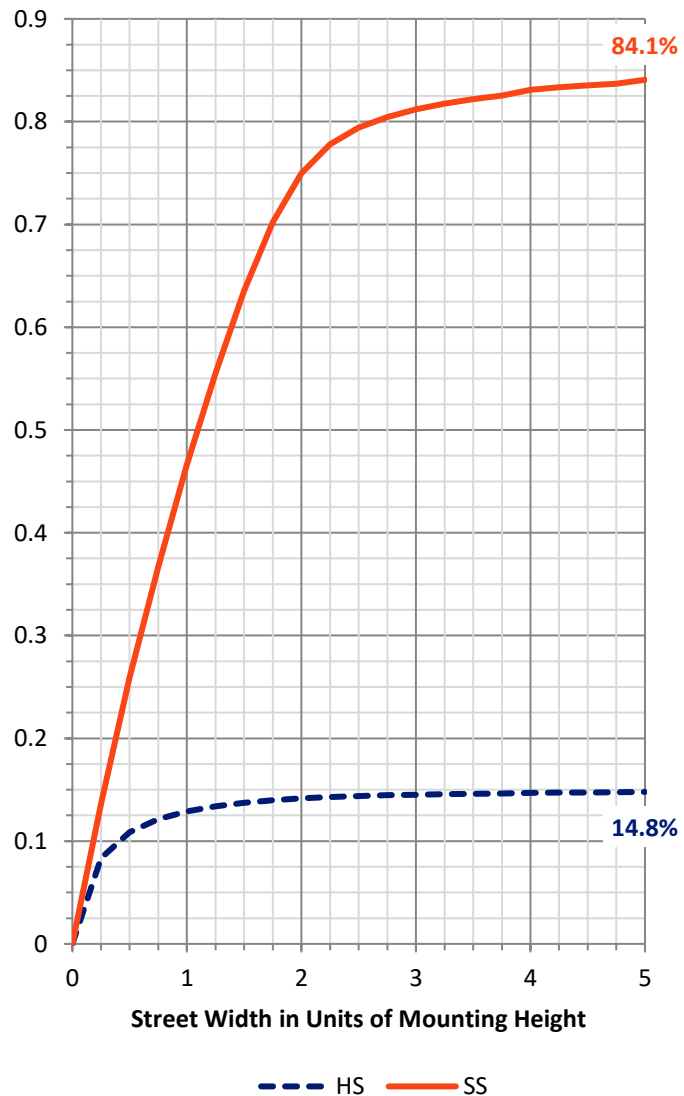
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2882.5	0.0	2882.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	16397.5	0.0	16397.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	19280.0	0.0	19280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.8	2.4
10°-20°	1024.7	5.3
20°-30°	1302.3	6.8
30°-40°	1658.9	8.6
40°-50°	2352.4	12.2
50°-60°	3640.5	18.9
60°-70°	4956.0	25.7
70°-80°	3306.2	17.1
80°-90°	578.0	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°	19280.0	100.0
0°-180°	19280.0	100.0

Coefficient of Utilization



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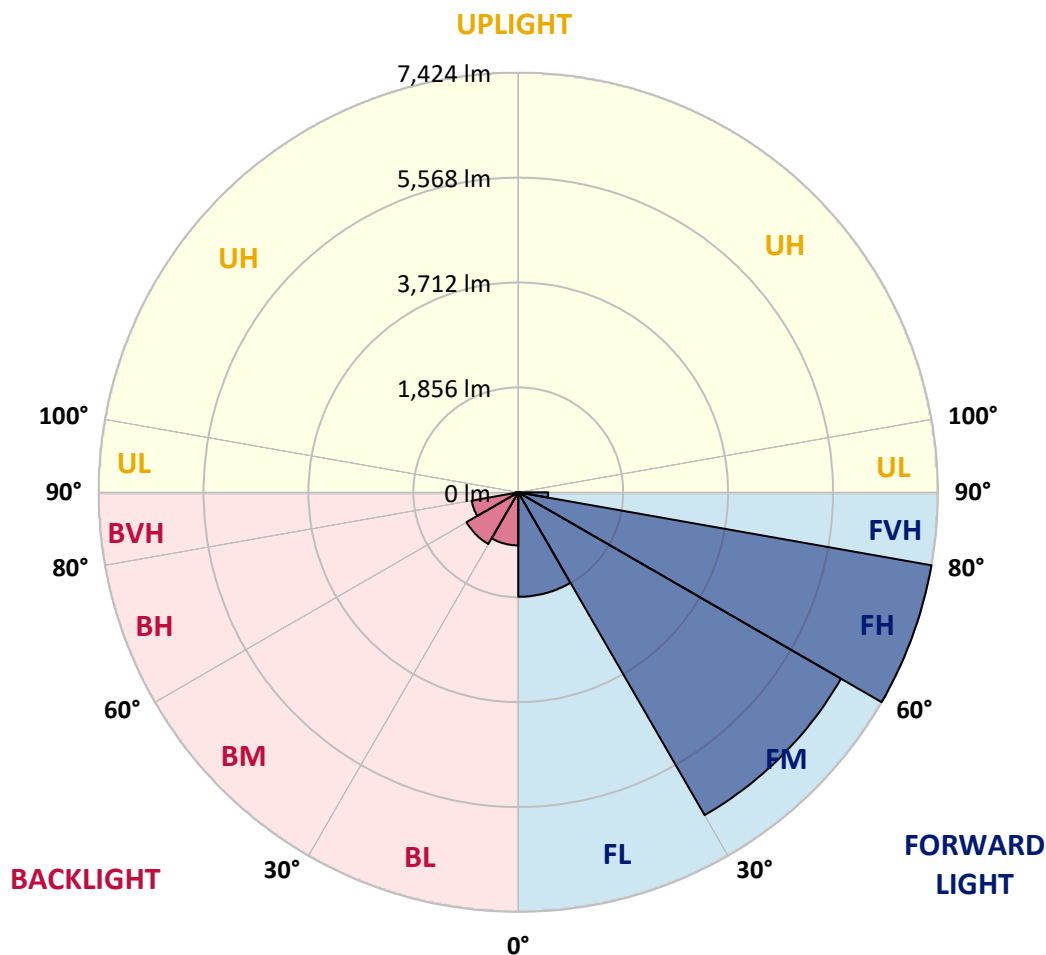
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1848.3	9.6			
FM	(30°-60°)	6594.7	34.2			
FH	(60°-80°)	7424.5	38.5			G3/7500
FVH	(80°-90°)	530.0	2.7			G4/750
BL	(0°-30°)	939.6	4.9	B2/1000		
BM	(30°-60°)	1057.1	5.5	B2/2500		
BH	(60°-80°)	837.8	4.3	B2/1000		G2/1000
BVH	(80°-90°)	48.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8
2.5°	5483.6	5476.2	5478.9	5473.5	5460.7	5448.0	5429.2	5432.5	5406.3	5367.4	5319.0
5°	5380.1	5377.4	5397.6	5409.0	5418.4	5411.0	5405.7	5412.4	5374.1	5320.4	5236.4
7.5°	5163.2	5133.7	5159.2	5197.5	5233.7	5261.3	5297.5	5302.2	5278.0	5221.6	5111.5
10°	4854.9	4826.7	4864.3	4924.1	4996.7	5062.5	5135.7	5149.1	5153.8	5102.8	4969.1
12.5°	4535.3	4513.8	4551.4	4635.3	4755.5	4857.0	4973.8	4994.0	5035.6	5001.4	4837.5
15°	4249.2	4241.1	4286.8	4369.4	4507.7	4662.9	4831.4	4868.4	4938.9	4927.5	4734.7
17.5°	4002.0	4000.0	4034.9	4121.6	4274.7	4470.8	4689.7	4752.2	4857.0	4870.4	4650.1
20°	3818.0	3814.0	3838.2	3902.0	4059.8	4282.1	4536.6	4622.6	4773.7	4820.7	4562.8
22.5°	3719.3	3718.6	3719.3	3749.5	3878.4	4085.3	4387.5	4492.3	4692.4	4781.1	4466.1
25°	3702.5	3700.5	3685.7	3682.3	3755.5	3920.8	4239.8	4355.3	4615.2	4753.5	4374.1
27.5°	3746.1	3748.8	3729.4	3697.8	3712.6	3812.6	4111.5	4235.1	4553.4	4748.2	4310.3
30°	3836.8	3835.5	3818.7	3785.8	3756.9	3772.3	4020.2	4143.7	4511.8	4771.7	4266.6
32.5°	3936.9	3944.3	3940.9	3922.8	3879.8	3818.0	3992.6	4113.5	4499.7	4828.1	4247.8
35°	4057.1	4065.2	4089.3	4103.4	4053.1	3953.7	4051.7	4156.5	4534.6	4934.2	4278.0
37.5°	4171.3	4192.1	4259.9	4319.7	4276.7	4165.9	4208.9	4283.4	4642.7	5101.4	4359.3
40°	4302.9	4321.0	4431.8	4558.8	4552.1	4437.2	4462.1	4511.8	4833.5	5341.2	4506.4
42.5°	4432.5	4468.8	4629.3	4809.3	4861.0	4759.6	4799.2	4825.4	5102.1	5658.8	4762.9
45°	4605.1	4644.1	4867.0	5084.0	5204.8	5147.8	5210.9	5221.0	5439.9	6091.3	5135.7
47.5°	4866.4	4910.7	5170.6	5398.3	5583.0	5589.0	5693.1	5689.1	5861.7	6586.3	5605.1
50°	5273.3	5337.1	5550.0	5762.9	5987.2	6112.2	6251.2	6231.7	6367.4	7113.5	6145.7
52.5°	5806.6	5836.1	5994.0	6151.1	6429.8	6709.9	6909.3	6891.9	6940.9	7655.5	6759.6
55°	6359.3	6381.5	6446.6	6532.6	6907.3	7364.0	7785.8	7758.2	7634.0	8218.3	7366.0
57.5°	6856.3	6901.3	6946.3	6981.9	7388.2	8047.7	8682.4	8684.4	8386.2	8825.4	7992.6
60°	6933.5	6973.1	7270.7	7551.4	8210.9	8959.7	9642.1	9621.9	9164.6	9484.2	8691.1
62.5°	6129.0	6218.3	6715.3	7462.1	9003.4	10628.0	10866.4	10841.5	10095.4	10296.2	9504.4
65°	4392.2	4493.6	5093.4	6215.6	8619.2	12466.1	13075.9	12741.5	11364.7	11294.8	10456.7
67.5°	2533.9	2558.1	2818.0	3719.3	6562.8	12562.1	16446.6	15978.5	13335.8	12427.8	10922.8
70°	1873.7	1873.1	1934.9	2288.8	3551.4	10252.5	18049.7	18469.5	15411.0	12800.6	10264.0
71°	1694.4	1696.4	1765.6	2083.3	2812.6	8581.6	17709.2	18628.0	15957.7	12616.5	9787.1
72.5°	1449.3	1456.0	1552.1	1868.4	2366.0	5918.1	16242.5	17677.0	16217.0	12162.5	9041.0
75°	1099.4	1114.8	1247.8	1574.9	2162.5	3001.3	11920.8	14115.5	14406.3	10732.1	6717.9
77.5°	784.4	801.9	952.3	1324.4	2055.7	2261.9	7983.2	10296.2	10601.8	6877.8	3030.2
80°	495.6	516.5	630.0	1053.7	1931.5	2147.8	5016.8	6920.8	5781.1	2200.8	771.0
82.5°	290.8	306.9	390.9	688.4	1577.6	2068.5	2951.7	3836.1	2249.8	664.9	350.6
85°	168.6	176.0	243.8	438.6	1145.7	1952.3	2168.6	2144.4	976.5	325.1	165.9
87.5°	78.6	87.3	144.4	229.0	636.0	1415.0	1713.9	1480.9	607.1	152.5	77.9
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°	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8
2.5°	5295.5	5284.1	5236.4	5194.1	5149.8	5092.0	5028.2	5020.2	4981.2	4988.6	4975.2
5°	5190.7	5161.9	5047.0	4942.9	4820.0	4709.9	4590.3	4535.3	4456.0	4450.6	4430.5
7.5°	5041.0	4987.2	4809.3	4611.8	4414.4	4226.3	4040.3	3918.1	3793.2	3740.1	3735.4
10°	4872.4	4781.1	4519.1	4227.0	3942.2	3667.6	3401.6	3204.8	3027.5	2943.6	2940.2
12.5°	4712.6	4577.6	4218.3	3820.7	3431.2	3075.2	2710.5	2452.0	2229.7	2155.1	2123.6
15°	4576.9	4386.8	3925.5	3417.1	2944.3	2450.0	2034.9	1762.9	1557.4	1486.2	1472.8
17.5°	4445.3	4200.8	3625.3	3009.4	2437.9	1894.6	1478.8	1276.7	1167.2	1138.3	1137.7
20°	4314.3	4009.4	3311.6	2592.3	1948.3	1417.1	1137.0	1046.3	1009.4	1006.0	1000.7
22.5°	4165.9	3806.6	2981.9	2173.9	1520.5	1114.2	966.4	930.2	925.5	937.5	937.5
25°	4026.9	3605.1	2647.4	1764.3	1182.7	929.5	863.0	855.6	868.4	889.9	891.9
27.5°	3897.3	3411.0	2321.0	1400.3	947.6	818.7	791.1	799.9	822.7	847.6	848.2
30°	3790.5	3227.7	2004.0	1103.4	800.5	736.1	731.4	748.8	773.7	793.2	797.9
32.5°	3707.9	3071.2	1697.8	887.2	704.5	674.3	678.3	693.1	708.5	719.3	726.7
35°	3669.6	2936.9	1415.0	748.2	643.4	626.6	632.0	640.0	646.7	654.8	660.8
37.5°	3676.3	2832.8	1162.5	661.5	602.4	593.7	593.7	593.7	593.7	597.7	598.4
40°	3738.8	2773.0	957.0	606.4	574.9	565.5	558.1	551.4	546.0	548.7	547.3
42.5°	3898.6	2767.6	806.6	571.5	552.7	537.3	522.5	513.1	506.4	509.1	510.4
45°	4169.9	2834.8	705.2	546.7	531.9	508.4	489.6	479.5	474.8	483.5	484.9
47.5°	4521.2	2981.2	643.4	528.5	512.4	481.5	461.4	452.0	453.3	466.1	469.4
50°	4973.8	3218.9	613.8	517.1	499.0	458.7	437.9	429.8	433.8	452.0	456.0
52.5°	5470.8	3561.5	617.2	513.8	490.3	441.9	419.7	410.3	417.1	433.8	437.2
55°	6044.3	3973.1	672.9	518.5	477.5	431.2	405.0	388.9	394.2	409.7	412.4
57.5°	6681.7	4444.6	785.1	517.1	461.4	421.1	389.5	365.3	369.4	378.8	381.5
60°	7345.2	5014.1	959.0	521.2	454.0	409.0	368.7	338.5	337.1	345.2	346.5
62.5°	8141.7	5672.9	1157.8	523.8	458.7	393.6	341.2	311.6	307.6	309.6	310.9
65°	8962.4	6149.8	1083.3	513.1	473.5	380.8	317.0	285.4	278.0	276.7	277.4
67.5°	8987.9	5638.7	759.6	491.6	479.5	374.1	298.9	263.3	251.2	246.5	245.8
70°	8060.5	4580.9	591.7	468.8	455.3	363.3	282.1	245.1	227.0	219.6	218.9
71°	7607.8	4216.9	560.8	457.4	437.2	352.6	274.7	237.1	218.3	210.2	208.9
72.5°	6897.9	3780.4	523.2	439.2	402.3	325.1	260.6	225.7	206.2	196.8	194.8
75°	4950.3	2472.1	449.3	391.5	333.1	259.2	228.3	202.8	186.0	174.6	173.3
77.5°	1907.3	983.9	339.8	325.7	255.2	202.8	188.0	175.3	163.2	151.8	151.1
80°	589.7	439.9	247.8	245.1	184.7	151.1	146.4	143.0	138.3	126.3	123.6
82.5°	315.0	252.5	170.6	158.5	120.9	100.7	106.1	107.5	108.1	95.4	94.0
85°	150.4	133.6	96.0	90.0	70.5	56.4	65.1	70.5	71.2	58.4	54.4
87.5°	71.9	69.8	45.0	34.3	26.2	18.8	22.8	28.2	30.9	22.2	19.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)