

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: P322323

Luminaire Tested: **GAN-SA9B-760-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-760-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37229 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 374
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

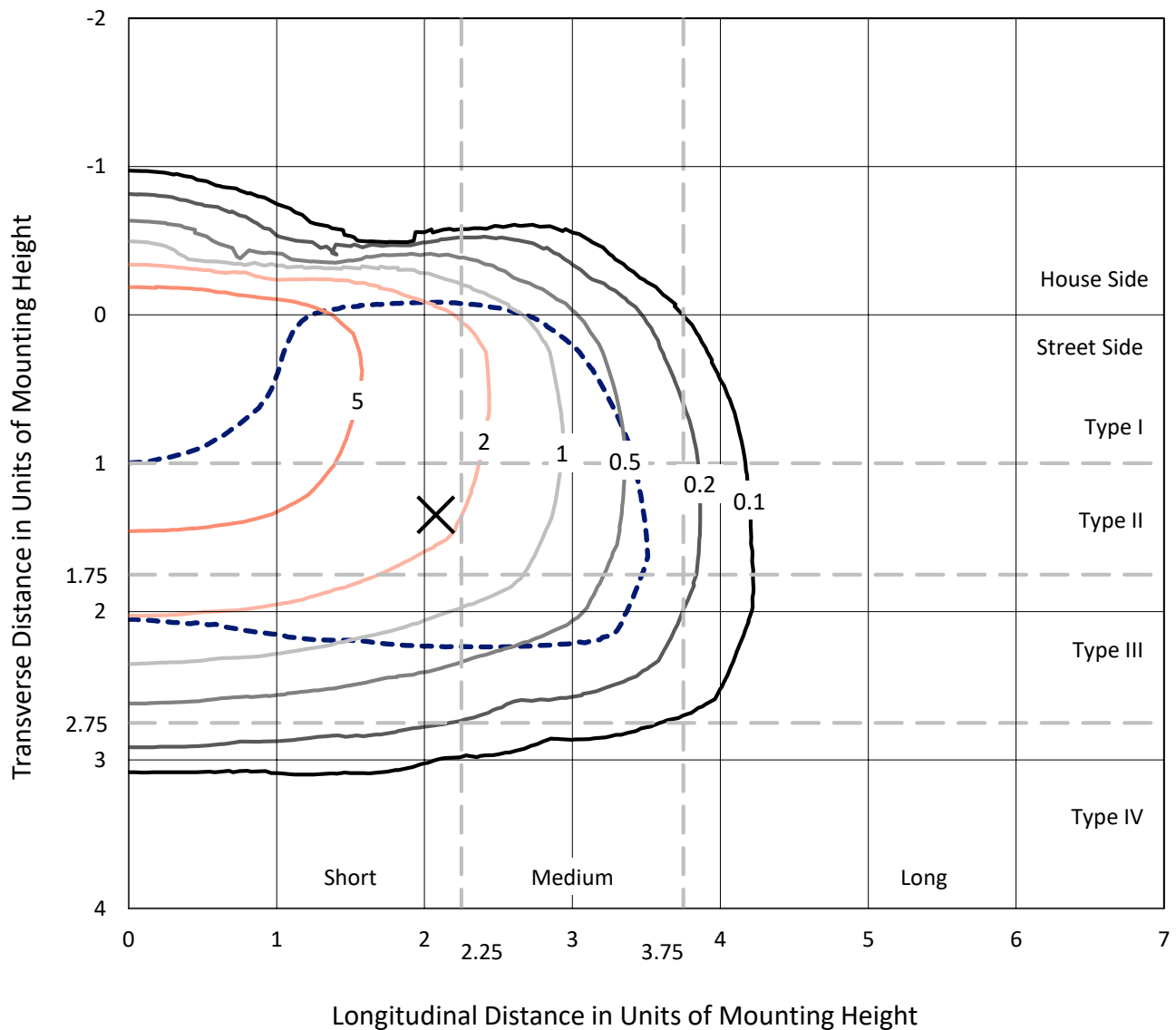


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Iso-Footcandle Lines of Horizontal Illumination

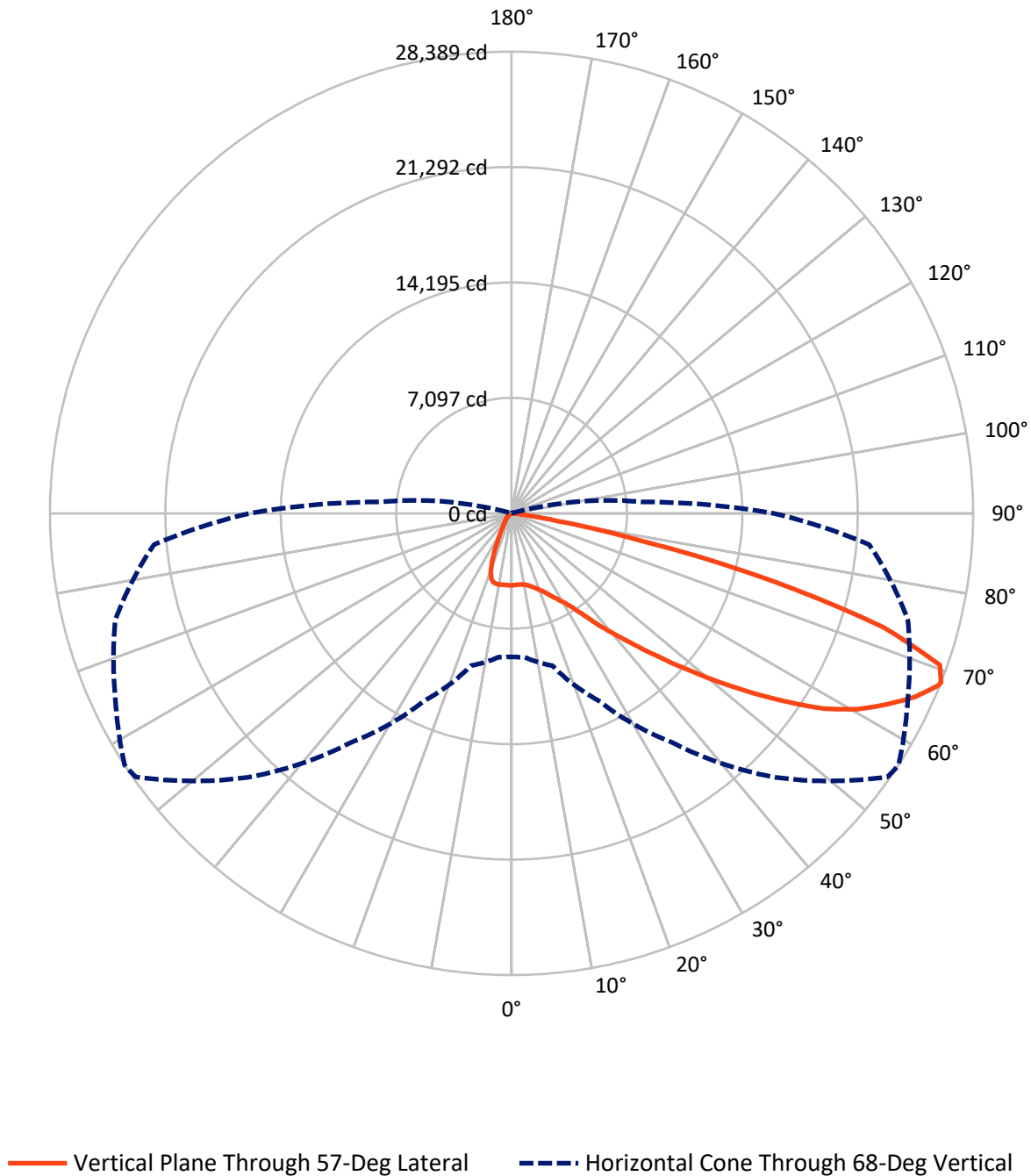
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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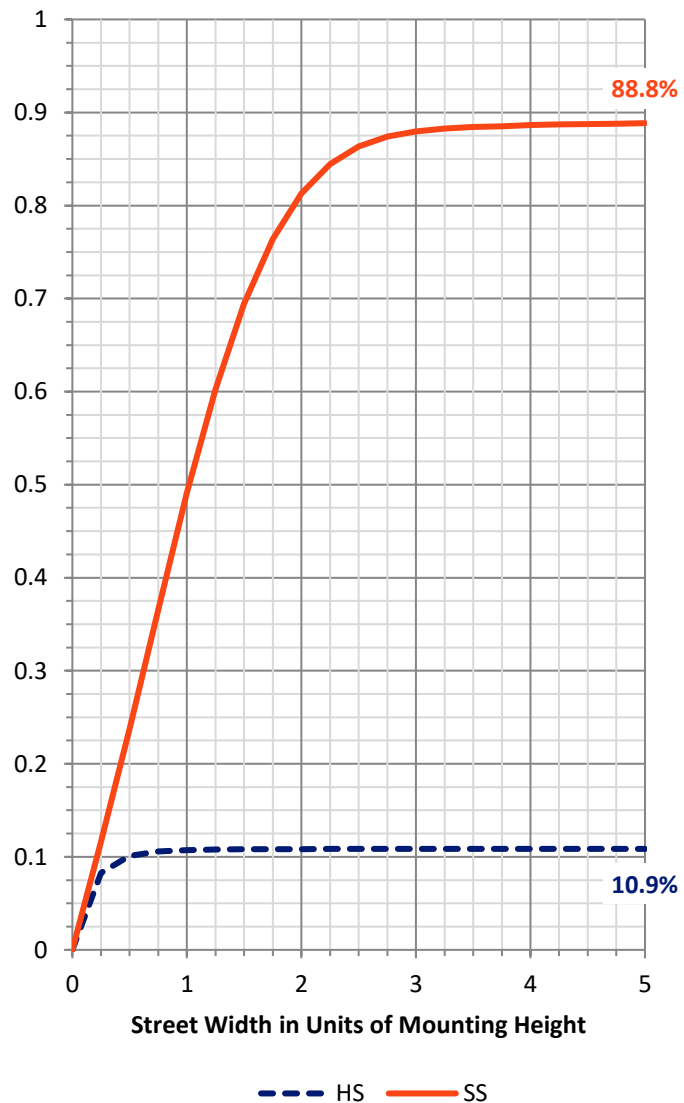
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4082.4	0.0	4082.4
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	33146.6	0.0	33146.6
	% Fixture	89.0	0.0	89.0
Total	Lumens	37229.0	0.0	37229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.0	1.1
10°-20°	1147.2	3.1
20°-30°	1979.1	5.3
30°-40°	3415.8	9.2
40°-50°	5842.8	15.7
50°-60°	9347.9	25.1
60°-70°	10800.5	29.0
70°-80°	4127.0	11.1
80°-90°	154.7	0.4
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°	37229.0	100.0
0°-180°	37229.0	100.0

Coefficient of Utilization



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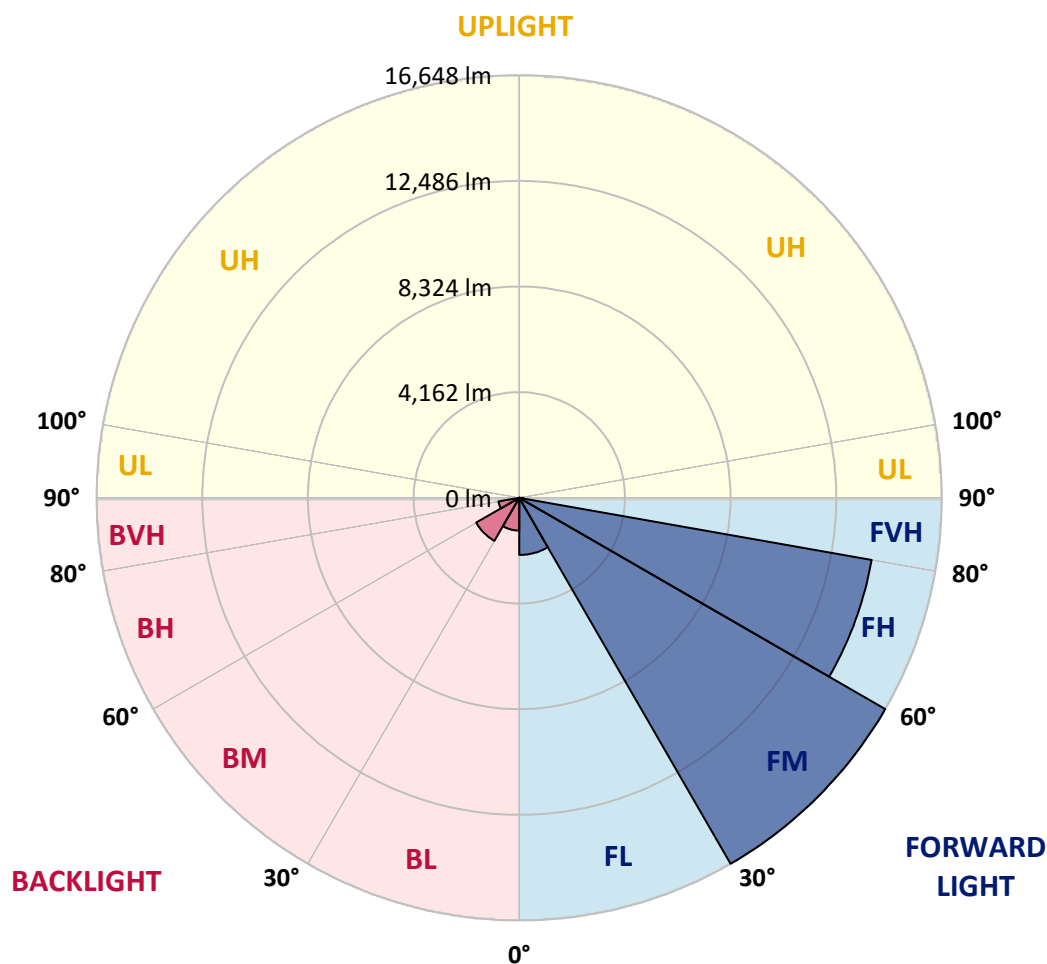
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2250.1	6.0			
FM	(30°-60°)	16648.5	44.7			
FH	(60°-80°)	14096.1	37.9			G5
FVH	(80°-90°)	151.9	0.4			G2/225
BL	(0°-30°)	1290.2	3.5	B3/2500		
BM	(30°-60°)	1958.0	5.3	B2/2500		
BH	(60°-80°)	831.4	2.2	B2/1000		G2/1000
BVH	(80°-90°)	2.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4423.8	4423.8	4423.8	4423.8	4423.8	4423.8	4423.8	4423.8	4423.8	4423.8	4423.8
2.5°	4319.9	4339.3	4353.4	4362.2	4372.7	4395.6	4402.7	4413.2	4418.5	4418.5	4430.8
5°	4149.2	4170.3	4200.2	4224.9	4274.2	4337.5	4383.3	4400.9	4432.6	4460.8	4476.6
7.5°	3990.7	4015.4	4050.6	4108.7	4193.2	4295.3	4390.3	4415.0	4476.6	4536.4	4566.4
10°	3888.6	3908.0	3953.8	4036.5	4147.4	4290.0	4423.8	4453.7	4559.3	4659.7	4716.0
12.5°	3853.4	3871.0	3918.6	4011.9	4149.2	4316.4	4501.2	4545.3	4700.2	4846.3	4925.5
15°	3904.5	3908.0	3959.1	4047.1	4182.6	4381.5	4629.7	4682.6	4878.0	5068.1	5166.7
17.5°	4101.6	4085.8	4112.2	4150.9	4258.3	4467.8	4765.3	4844.5	5105.0	5328.6	5421.9
20°	4594.5	4594.5	4534.7	4429.1	4430.8	4601.6	4948.4	5038.2	5356.8	5615.6	5700.0
22.5°	5437.8	5421.9	5302.2	5043.4	4805.8	4832.2	5171.9	5288.1	5659.6	5935.9	5964.1
25°	6451.7	6432.4	6247.5	5883.1	5471.2	5205.4	5474.7	5608.5	6020.4	6265.1	6207.0
27.5°	7525.5	7509.7	7326.6	6874.2	6288.0	5800.4	5835.6	5962.3	6388.3	6629.5	6444.7
30°	8565.9	8571.2	8389.9	7925.1	7261.5	6559.1	6293.3	6367.2	6745.7	6990.4	6726.3
32.5°	9555.2	9562.3	9405.6	8886.3	8266.7	7441.0	6927.0	6907.7	7161.1	7402.3	7099.5
35°	10437.2	10454.8	10347.4	9944.3	9287.7	8423.3	7749.1	7703.3	7750.9	8023.7	7671.7
37.5°	11287.4	11298.0	11217.0	10877.3	10328.0	9502.4	8787.7	8722.6	8620.5	8830.0	8426.8
40°	12218.7	12192.3	12099.0	11790.9	11319.1	10694.2	9903.8	9791.1	9613.3	9799.9	9419.7
42.5°	13084.8	13054.8	13070.7	12722.1	12324.3	11919.4	11204.7	11011.1	10907.2	11122.0	10637.9
45°	14167.4	14151.5	14204.4	13901.6	13579.4	13285.4	12695.7	12484.5	12438.7	12690.4	12111.3
47.5°	15235.9	15274.7	15438.4	15309.9	15179.6	14920.8	14274.8	14179.7	14207.9	14512.4	13665.7
50°	16126.7	16172.4	16621.3	16769.2	16957.6	16806.2	16158.4	16100.3	16211.2	16485.8	15338.0
52.5°	16771.0	16864.3	17422.3	18103.6	18790.1	18892.2	18246.1	18193.3	18343.0	18385.2	16630.1
55°	17218.1	17300.8	17932.8	19179.1	20576.9	21016.9	20615.6	20411.4	20383.2	19966.0	17989.1
57.5°	17297.3	17288.5	18196.8	19874.5	21978.1	23113.5	22860.0	22659.4	22082.0	21427.1	19547.0
60°	16850.2	16901.2	17955.7	20115.6	22858.3	24699.6	24719.0	24458.5	23558.9	22847.7	21057.4
62.5°	15473.6	15681.3	16746.3	19483.7	22847.7	25338.6	26081.5	25882.6	24807.0	24011.3	22588.9
65°	13241.4	13315.4	14331.1	17318.4	21303.9	25071.1	27308.5	27234.5	25931.9	25141.5	23375.8
67.5°	9669.7	9509.5	10576.2	13637.5	18036.7	23511.4	28188.7	28282.0	26799.7	25373.8	22537.9
68°	8824.7	8872.2	9703.1	12727.4	17181.1	22960.4	28246.7	28389.3	26886.0	25222.4	22080.2
70°	5260.0	5351.5	6092.6	8763.1	13070.7	19842.8	27620.1	27945.7	26372.0	23661.0	19098.2
72.5°	1343.2	1452.3	2152.9	3922.1	7465.7	13980.8	23316.0	23867.0	22897.0	19195.0	12892.9
75°	552.8	580.9	769.3	1292.1	2781.4	6298.6	15367.9	16547.4	15873.2	11491.6	5826.8
77.5°	382.0	401.4	494.7	716.5	1204.1	2135.3	7534.3	8386.4	7555.5	3922.1	1271.0
80°	274.6	290.5	353.8	477.1	691.8	762.2	2455.7	2839.5	2255.0	860.8	315.1
82.5°	163.7	176.0	264.1	339.7	420.7	364.4	610.8	693.6	653.1	427.8	140.8
85°	81.0	95.1	177.8	242.9	227.1	153.2	186.6	207.7	257.0	260.5	75.7
87.5°	5.3	10.6	103.9	146.1	63.4	35.2	54.6	66.9	91.5	128.5	31.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4423.8	4423.8	4423.8	4423.8	4423.8	4423.8	4423.8	4423.8	4423.8	4423.8	4423.8
2.5°	4436.1	4437.9	4425.5	4420.3	4423.8	4402.7	4393.9	4397.4	4397.4	4402.7	4393.9
5°	4480.1	4480.1	4459.0	4430.8	4415.0	4374.5	4348.1	4341.0	4335.8	4332.2	4325.2
7.5°	4575.2	4564.6	4527.6	4466.0	4413.2	4325.2	4258.3	4223.1	4205.5	4198.5	4193.2
10°	4728.3	4709.0	4647.4	4532.9	4411.5	4254.8	4108.7	4004.8	3918.6	3883.4	3862.2
12.5°	4934.3	4906.1	4802.3	4612.1	4399.1	4110.4	3793.6	3489.0	3205.6	3089.4	3031.3
15°	5171.9	5131.5	4967.7	4679.0	4327.0	3784.8	3096.5	2563.1	2170.5	2022.7	1959.3
17.5°	5413.1	5360.3	5112.1	4721.3	4110.4	3110.6	2172.3	1640.7	1378.4	1307.9	1283.3
20°	5656.0	5578.6	5237.1	4689.6	3621.1	2242.7	1432.9	1198.8	1123.1	1102.0	1094.9
22.5°	5886.6	5766.9	5349.7	4566.4	2867.6	1505.1	1133.7	1059.7	1035.1	1022.8	1019.2
25°	6087.3	5920.1	5448.3	4186.1	2029.7	1137.2	1021.0	996.4	964.7	941.8	943.6
27.5°	6275.7	6073.2	5508.2	3559.4	1353.7	971.7	945.3	911.9	853.8	820.3	820.3
30°	6502.8	6277.4	5552.2	2739.1	996.4	859.1	837.9	786.9	707.7	663.7	663.7
32.5°	6844.3	6587.3	5524.0	1922.3	825.6	755.2	705.9	635.5	549.2	507.0	505.2
35°	7367.1	7066.1	5323.3	1260.4	728.8	656.6	577.4	491.1	415.4	380.2	378.5
37.5°	8071.3	7706.9	4872.7	901.3	653.1	565.1	470.0	375.0	318.6	295.7	294.0
40°	8984.9	8451.5	4228.4	730.5	582.7	477.1	362.6	290.5	251.7	234.1	235.9
42.5°	10081.6	9248.9	3455.6	630.2	514.0	392.6	283.4	228.8	204.2	191.9	188.4
45°	11299.8	10035.8	2645.8	561.6	445.4	316.9	221.8	181.3	162.0	154.9	154.9
47.5°	12639.4	10801.6	1936.4	501.7	371.4	244.7	177.8	147.9	132.0	126.7	125.0
50°	13855.8	11333.2	1396.0	438.3	304.5	193.6	144.3	123.2	112.7	105.6	105.6
52.5°	14869.8	11500.4	1028.1	369.7	246.5	154.9	119.7	105.6	95.1	89.8	89.8
55°	15762.3	11431.8	764.0	304.5	198.9	126.7	102.1	89.8	81.0	75.7	75.7
57.5°	16617.8	11210.0	570.4	248.2	160.2	102.1	86.3	75.7	66.9	63.4	63.4
60°	17316.7	10840.3	424.2	200.7	128.5	82.7	72.2	61.6	54.6	49.3	49.3
62.5°	17883.5	10431.9	311.6	165.5	102.1	65.1	56.3	51.1	40.5	35.2	35.2
65°	17887.0	9754.2	234.1	137.3	79.2	51.1	42.2	40.5	26.4	21.1	19.4
67.5°	16593.2	8409.2	179.6	117.9	61.6	38.7	31.7	33.4	14.1	8.8	7.0
68°	16123.1	8067.7	169.0	116.2	58.1	37.0	29.9	33.4	12.3	7.0	5.3
70°	13593.5	6418.3	135.5	112.7	51.1	28.2	24.6	33.4	10.6	5.3	3.5
72.5°	8694.4	3724.9	100.3	89.8	38.7	21.1	15.8	29.9	10.6	3.5	1.8
75°	3700.3	1154.8	68.7	63.4	22.9	15.8	10.6	19.4	7.0	1.8	0.0
77.5°	779.8	260.5	40.5	38.7	15.8	10.6	7.0	5.3	1.8	0.0	0.0
80°	200.7	75.7	21.1	19.4	8.8	5.3	3.5	0.0	0.0	0.0	0.0
82.5°	63.4	29.9	12.3	8.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.7	17.6	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.6	5.3	1.8	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

(END OF REPORT)