

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: P322004

Luminaire Tested: **GAN-SA0B-760-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-760-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40238 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

Input Watts (W): 419
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

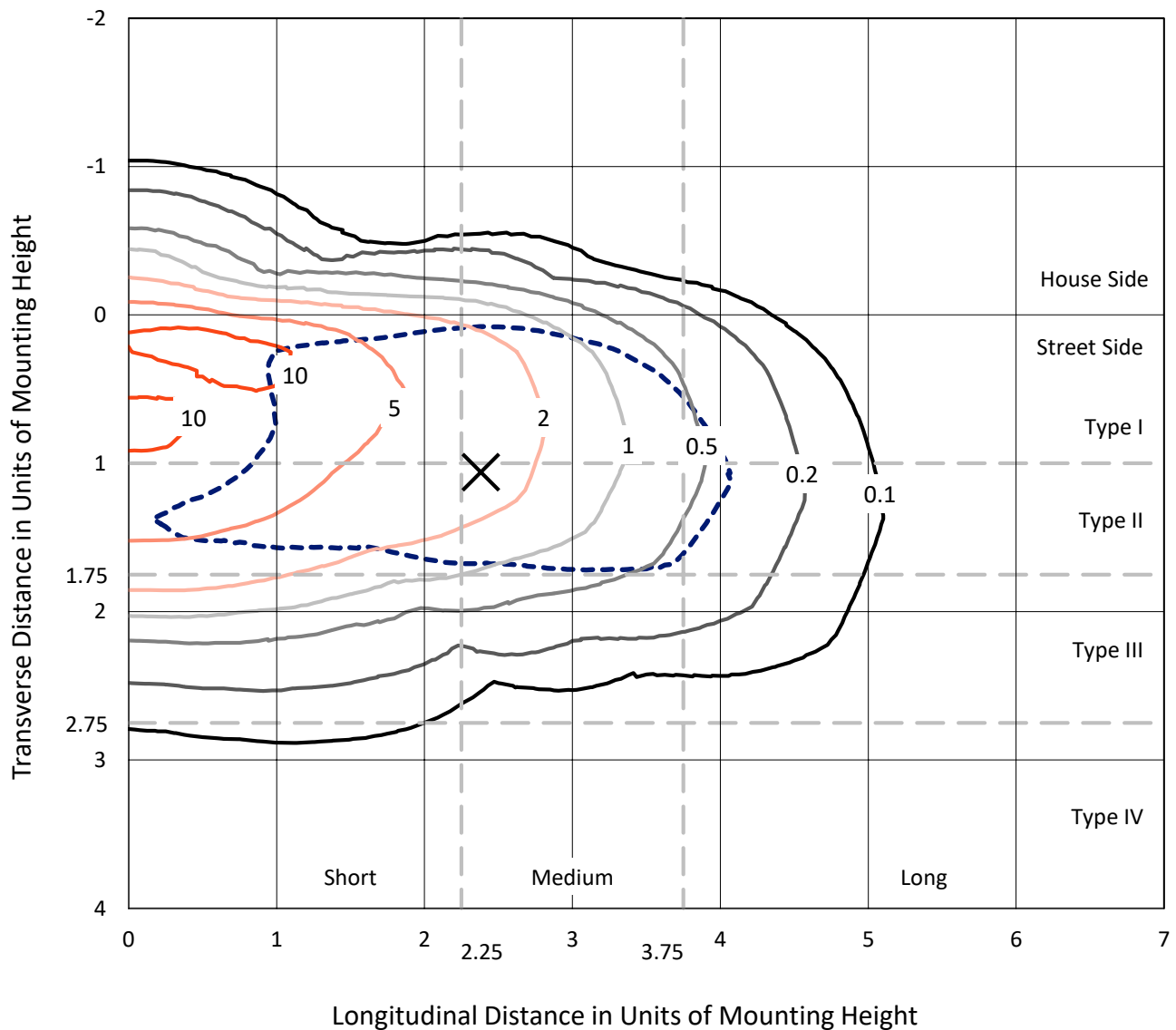


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Iso-Footcandle Lines of Horizontal Illumination

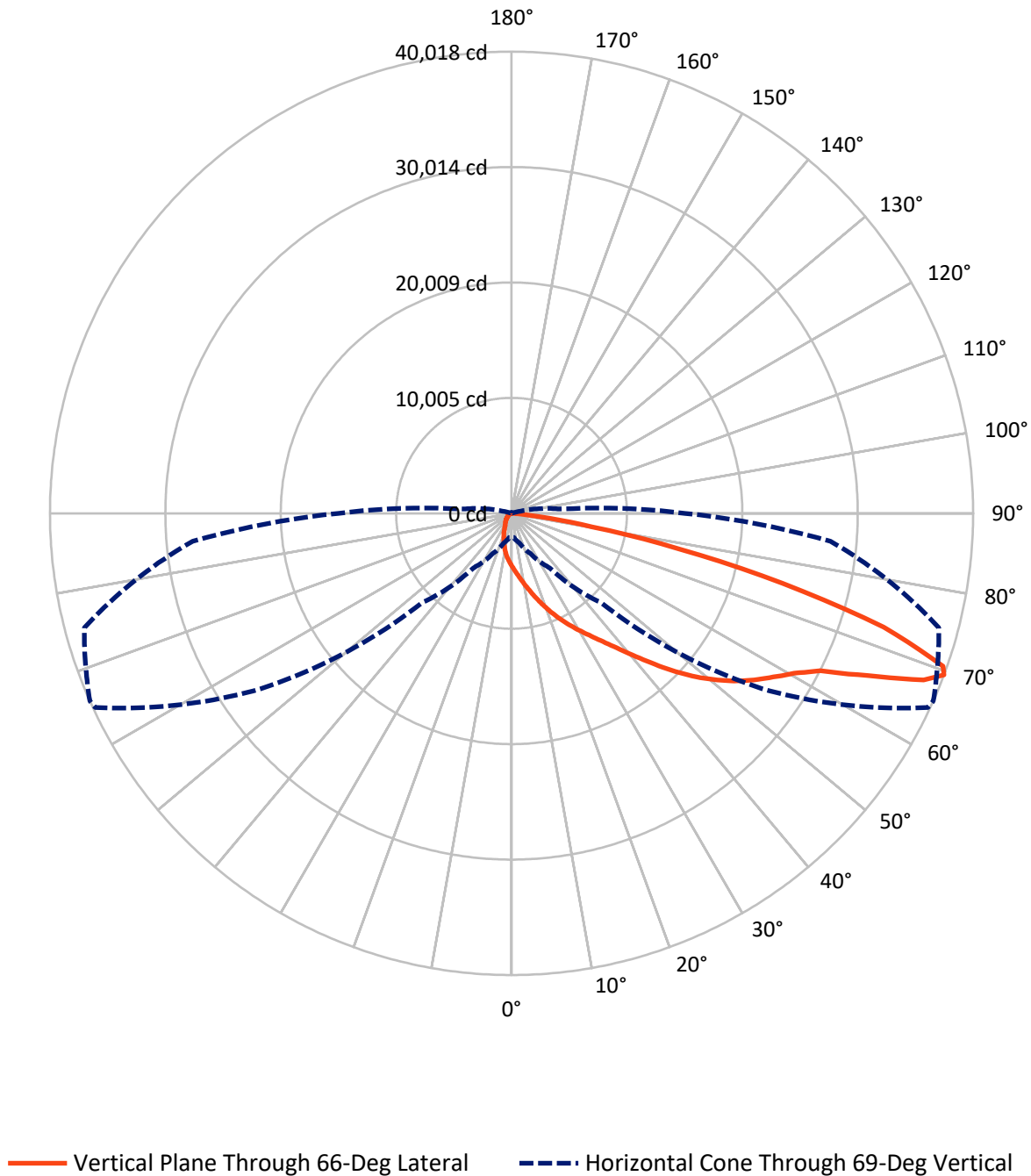
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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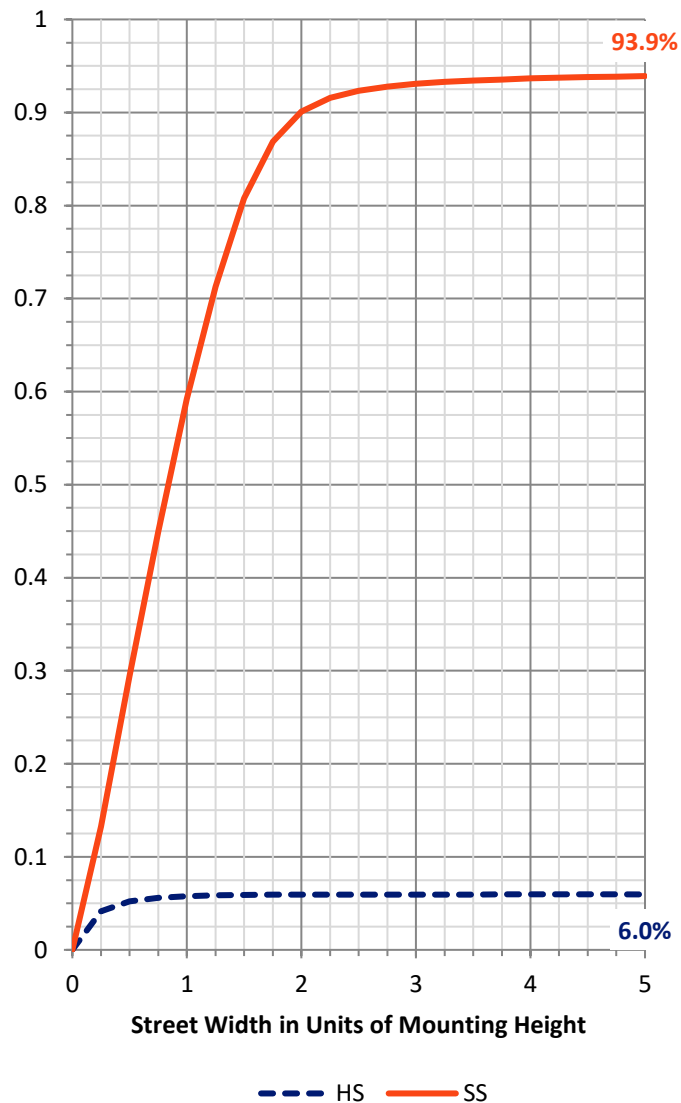
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2413.7	0.0	2413.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	37824.3	0.0	37824.3
	% Fixture	94.0	0.0	94.0
Total	Lumens	40238.0	0.0	40238.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.6	1.1
10°-20°	1317.4	3.3
20°-30°	2294.0	5.7
30°-40°	4024.9	10.0
40°-50°	6737.1	16.7
50°-60°	9902.8	24.6
60°-70°	10167.7	25.3
70°-80°	5019.5	12.5
80°-90°	331.9	0.8
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°	40238.0	100.0
0°-180°	40238.0	100.0

Coefficient of Utilization



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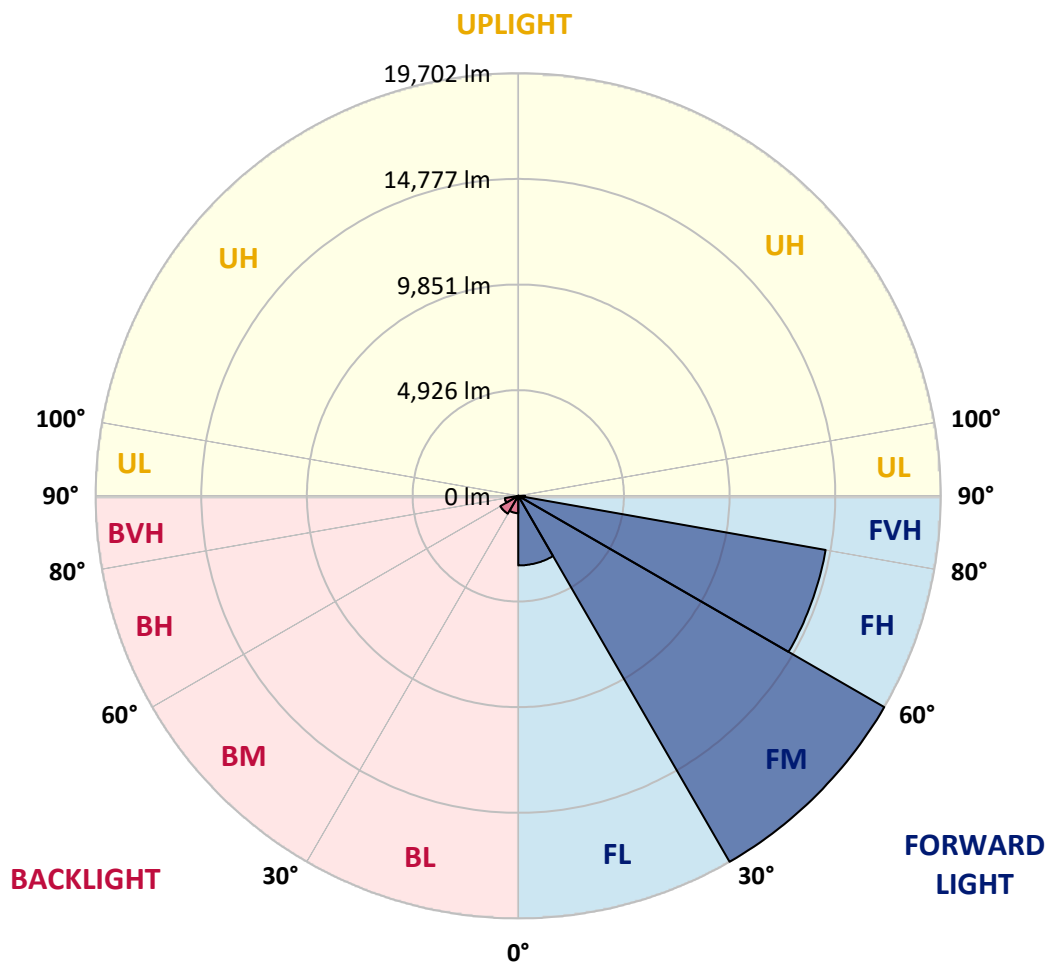
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3246.8	8.1			
FM	(30°-60°)	19702.4	49.0			
FH	(60°-80°)	14551.1	36.2			G5
FVH	(80°-90°)	323.9	0.8			G3/500
BL	(0°-30°)	807.2	2.0	B2/1000		
BM	(30°-60°)	962.4	2.4	B1/1000		
BH	(60°-80°)	636.1	1.6	B2/1000		G2/1000
BVH	(80°-90°)	8.0	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-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4579.2	4579.2	4579.2	4579.2	4579.2	4579.2	4579.2	4579.2	4579.2	4579.2	4579.2
2.5°	5389.6	5366.6	5357.1	5315.0	5242.4	5187.0	5079.9	4955.7	4932.8	4812.4	4665.2
5°	6089.1	6069.9	6056.6	5997.3	5922.8	5783.3	5588.3	5357.1	5313.1	5083.8	4789.4
7.5°	6576.4	6610.8	6610.8	6572.6	6478.9	6373.8	6134.9	5819.6	5764.2	5412.5	4955.7
10°	6861.2	6903.2	6935.7	6968.2	6954.8	6912.8	6687.3	6331.8	6264.9	5798.6	5148.7
12.5°	6887.9	6930.0	7021.7	7157.4	7289.3	7384.8	7243.4	6899.4	6823.0	6245.8	5378.1
15°	6738.9	6782.8	6924.2	7188.0	7507.2	7786.2	7832.1	7528.2	7449.8	6779.0	5664.8
17.5°	6478.9	6507.6	6710.2	7075.2	7576.0	8088.2	8365.3	8202.8	8130.2	7388.7	5983.9
20°	6285.9	6306.9	6484.7	6876.5	7533.9	8277.4	8869.8	8919.5	8843.1	8042.3	6329.9
22.5°	6616.5	6654.8	6660.5	6845.9	7419.2	8371.0	9313.2	9624.8	9567.4	8736.1	6670.1
25°	7520.5	7564.5	7419.2	7304.6	7516.7	8413.1	9693.6	10347.2	10301.3	9483.3	7012.2
27.5°	8715.0	8760.9	8573.6	8231.5	8027.0	8571.7	10031.8	11081.1	11079.2	10274.6	7381.0
30°	9888.5	9934.4	9743.3	9401.1	8931.0	9020.8	10324.3	11849.4	11860.9	11090.6	7772.8
32.5°	11119.3	11176.6	10979.8	10540.2	10049.0	9796.8	10735.2	12621.5	12686.5	12036.7	8214.3
35°	12518.3	12525.9	12248.8	11788.2	11222.5	10834.5	11394.5	13487.3	13642.1	13208.2	8774.3
37.5°	13890.5	13946.0	13718.5	12992.3	12472.4	12032.9	12375.0	14569.0	14788.8	14639.7	9506.3
40°	14907.3	15023.9	14991.4	14207.8	13714.7	13401.3	13592.4	15855.2	16134.3	16306.3	10429.4
42.5°	15545.6	15633.5	15782.6	15310.6	14863.3	14914.9	15029.6	17353.6	17697.6	18206.0	11490.1
45°	16277.6	16319.7	16443.9	16235.6	15933.6	16453.4	16554.7	19041.2	19402.4	20249.1	12667.4
47.5°	17172.1	17271.4	17305.8	17114.7	16977.1	17814.2	18024.4	20575.9	21082.3	22437.4	13913.5
50°	18311.1	18337.9	18397.1	18272.9	18135.3	18983.9	19343.2	22187.0	22647.6	24633.3	15142.4
52.5°	19425.3	19520.9	19727.3	19649.0	19593.5	19979.6	20518.5	23639.5	24153.6	26464.3	16369.4
55°	19746.4	19828.6	20541.5	21028.8	21479.9	21206.6	21642.3	24941.0	25497.2	28100.2	17550.5
57.5°	18464.0	18630.3	19864.9	21133.9	23005.0	23113.9	23186.6	26277.0	26775.8	29354.0	18779.4
60°	15222.6	15255.1	17281.0	19457.8	22752.7	24778.6	25441.8	27712.3	28130.8	30521.7	20251.0
62.5°	9682.1	10012.7	12235.4	15308.6	20084.7	24537.8	28169.0	29883.4	30036.3	31922.6	22360.9
65°	4611.7	4825.8	6427.3	9458.5	14548.0	21455.0	30051.6	33810.9	33879.7	34699.6	25179.9
67.5°	2553.4	2656.6	3419.1	5091.4	8504.8	15172.9	29290.9	38462.7	38527.7	37535.8	27653.0
69°	1997.2	2085.1	2685.2	3837.7	5766.1	10905.3	26506.3	39825.4	40018.4	38348.0	27740.9
70°	1695.2	1781.2	2312.5	3241.4	4636.5	8426.4	23593.7	39487.1	39691.6	38271.6	27085.4
72.5°	1037.8	1087.5	1540.4	2282.0	3107.6	4239.0	14549.9	33394.2	33740.2	35106.7	23278.3
75°	699.5	726.3	963.2	1574.8	2222.7	2182.6	7558.8	23538.2	24287.4	27309.0	17193.1
77.5°	500.7	525.6	646.0	1018.7	1557.6	1441.0	3422.9	14628.3	14788.8	16378.9	9376.3
80°	284.8	307.7	456.8	605.8	1056.9	961.3	1360.8	6987.3	7067.6	7023.6	3130.5
82.5°	149.1	168.2	250.4	399.4	678.5	628.8	565.7	2339.3	2350.8	1955.1	686.1
85°	28.7	34.4	124.2	273.3	349.7	273.3	231.3	548.5	560.0	495.0	170.1
87.5°	0.0	1.9	49.7	61.2	68.8	70.7	74.5	107.0	114.7	154.8	45.9
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°	4579.2	4579.2	4579.2	4579.2	4579.2	4579.2	4579.2	4579.2	4579.2	4579.2	4579.2
2.5°	4600.2	4531.4	4399.6	4246.7	4128.2	4011.6	3919.9	3824.3	3789.9	3772.7	3770.8
5°	4646.1	4500.9	4221.8	3935.1	3700.1	3478.4	3319.7	3168.8	3098.0	3065.6	3052.2
7.5°	4722.6	4489.4	4040.3	3602.6	3264.3	2987.2	2767.4	2603.0	2520.9	2486.5	2473.1
10°	4812.4	4474.1	3828.1	3250.9	2819.0	2532.3	2314.5	2152.0	2062.2	2024.0	2004.8
12.5°	4917.5	4447.3	3583.5	2895.5	2438.7	2152.0	1888.3	1687.6	1584.4	1540.4	1519.4
15°	5047.5	4420.6	3327.4	2561.0	2104.2	1754.5	1465.9	1330.2	1309.2	1301.5	1303.4
17.5°	5175.5	4378.5	3048.3	2230.4	1752.6	1370.3	1223.2	1215.5	1219.3	1219.3	1219.3
20°	5290.2	4283.0	2744.5	1947.5	1418.1	1156.3	1125.7	1112.3	1102.8	1095.1	1085.6
22.5°	5380.0	4154.9	2452.1	1666.6	1158.2	1058.8	1011.0	969.0	934.6	911.6	900.2
25°	5441.2	3984.8	2184.5	1397.1	1041.6	963.2	877.2	806.5	753.0	720.5	707.1
27.5°	5487.0	3801.4	1945.6	1169.6	961.3	852.4	739.6	655.5	600.1	571.4	560.0
30°	5519.5	3593.0	1735.4	1028.2	871.5	735.8	615.4	533.2	493.1	477.8	470.2
32.5°	5550.1	3361.8	1536.6	961.3	787.4	628.8	516.0	453.0	428.1	409.0	403.3
35°	5626.5	3147.7	1347.4	890.6	701.4	537.0	443.4	397.5	372.7	361.2	357.4
37.5°	5808.1	2989.1	1165.8	818.0	615.4	464.4	388.0	355.5	332.5	321.1	317.3
40°	6100.5	2908.8	1012.9	739.6	531.3	409.0	351.7	321.1	296.2	279.0	275.2
42.5°	6530.5	2920.3	905.9	661.3	464.4	365.0	317.3	280.9	254.2	238.9	235.1
45°	7052.3	3004.4	831.4	584.8	409.0	330.6	279.0	240.8	216.0	202.6	198.8
47.5°	7618.0	3140.1	770.2	516.0	365.0	298.1	240.8	200.7	179.7	168.2	166.3
50°	8214.3	3272.0	707.1	449.1	326.8	265.7	202.6	166.3	149.1	139.5	135.7
52.5°	8818.2	3424.9	649.8	388.0	294.3	227.4	168.2	135.7	122.3	114.7	110.8
55°	9468.0	3539.5	594.4	340.2	261.8	193.0	139.5	112.8	101.3	91.7	89.8
57.5°	10232.5	3717.3	537.0	294.3	223.6	160.5	114.7	89.8	80.3	70.7	68.8
60°	11264.6	3925.6	475.9	259.9	183.5	131.9	93.6	72.6	61.2	53.5	51.6
62.5°	12625.3	4156.8	399.4	227.4	149.1	107.0	74.5	57.3	44.0	34.4	34.4
65°	14351.1	4533.3	326.8	191.1	122.3	87.9	57.3	42.0	24.8	15.3	15.3
67.5°	15358.3	4598.3	263.7	156.7	99.4	74.5	47.8	28.7	7.6	1.9	0.0
69°	15035.3	4221.8	223.6	133.8	86.0	70.7	44.0	21.0	3.8	0.0	0.0
70°	14427.6	3860.6	196.9	118.5	78.4	66.9	42.0	15.3	3.8	0.0	0.0
72.5°	11922.0	2748.3	149.1	87.9	57.3	59.2	38.2	9.6	3.8	0.0	0.0
75°	8684.5	1670.4	107.0	61.2	36.3	44.0	26.8	3.8	1.9	0.0	0.0
77.5°	4831.5	787.4	66.9	34.4	22.9	26.8	13.4	0.0	0.0	0.0	0.0
80°	1569.1	214.1	30.6	19.1	13.4	15.3	5.7	0.0	0.0	0.0	0.0
82.5°	290.5	61.2	17.2	9.6	3.8	3.8	0.0	0.0	0.0	0.0	0.0
85°	63.1	24.8	9.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.0	7.6	1.9	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)