

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: P317514

Luminaire Tested: **GAN-SA0A-760-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-760-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48054 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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

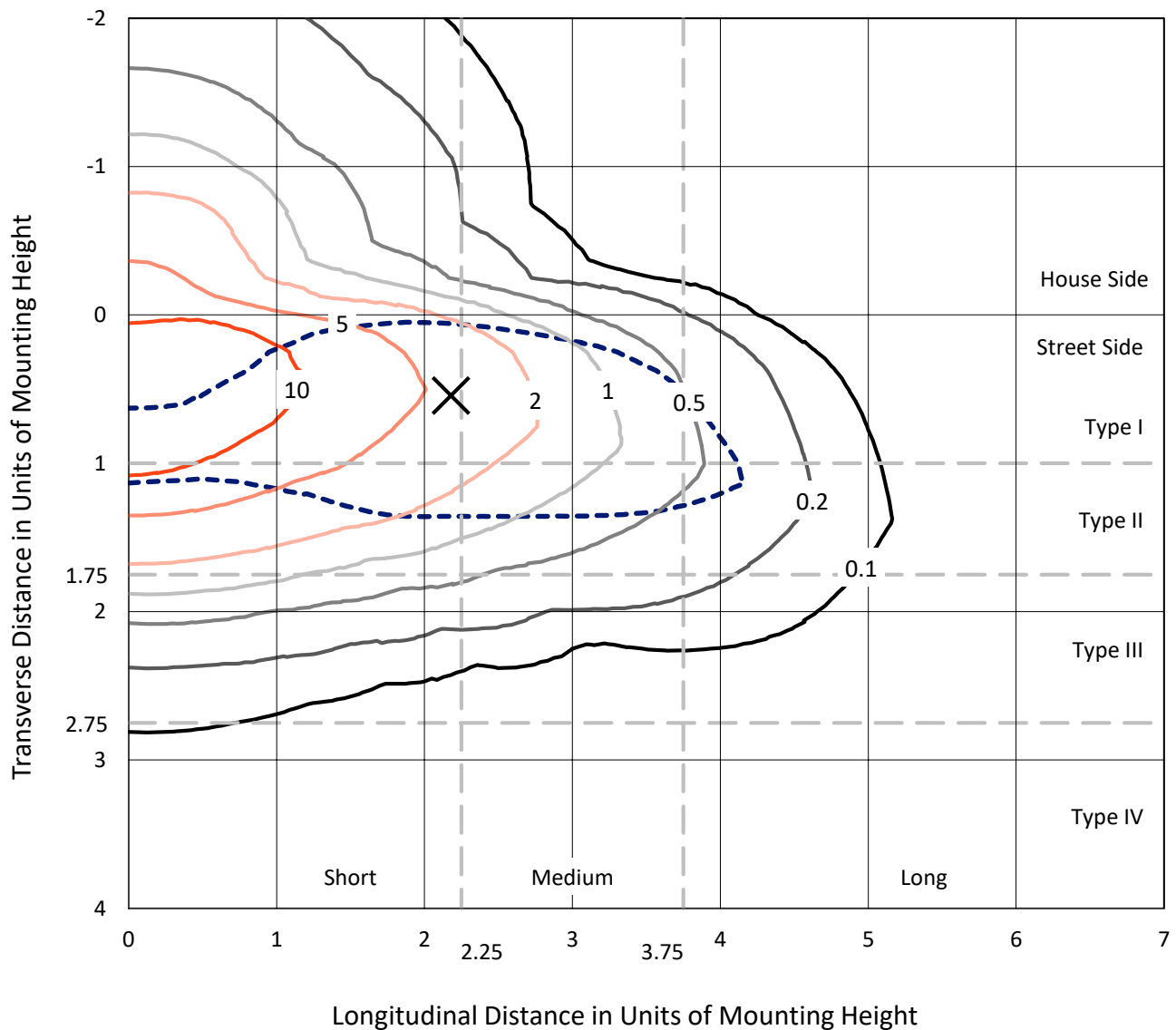


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Iso-Footcandle Lines of Horizontal Illumination

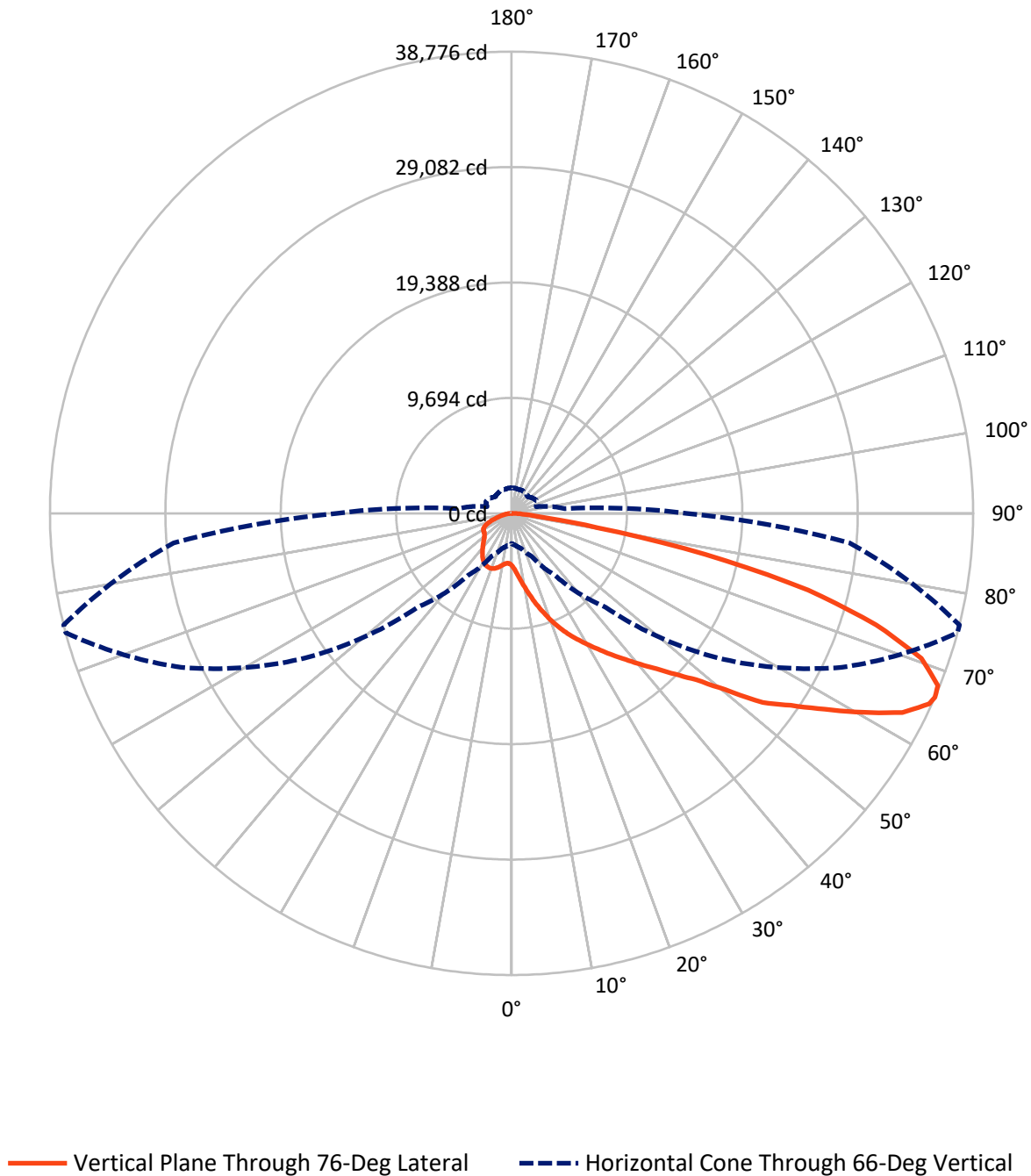
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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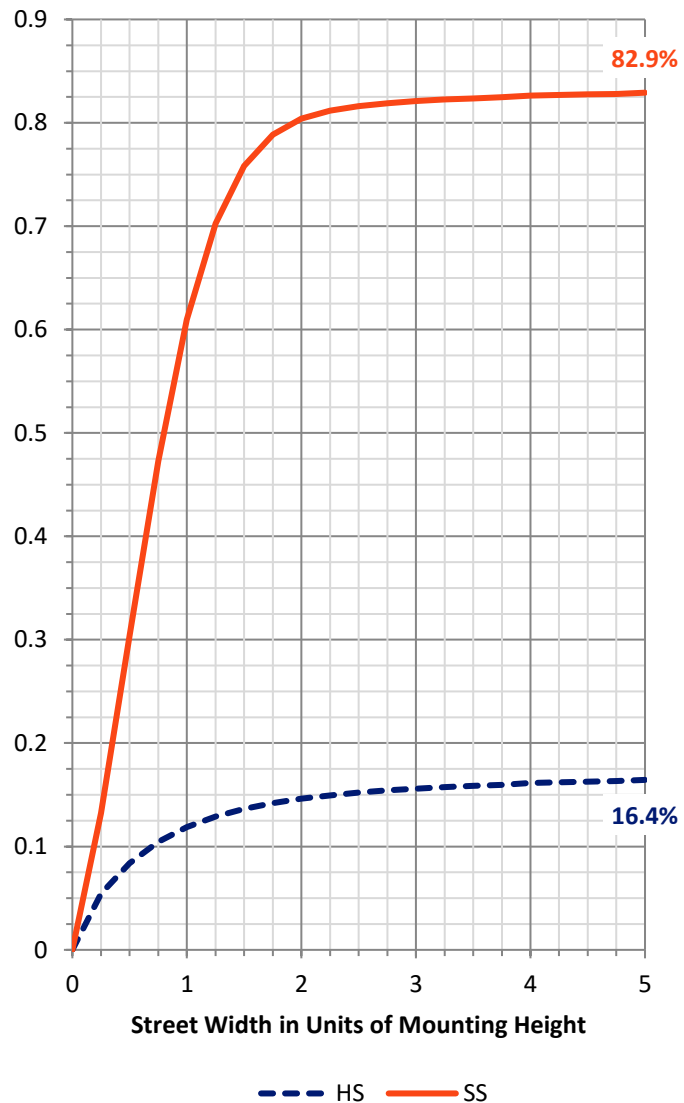
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8085.8	0.0	8085.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	39968.2	0.0	39968.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	48054.0	0.0	48054.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.7	1.1
10°-20°	2095.6	4.4
20°-30°	4072.3	8.5
30°-40°	6646.9	13.8
40°-50°	9081.2	18.9
50°-60°	10577.8	22.0
60°-70°	9483.2	19.7
70°-80°	4792.4	10.0
80°-90°	773.9	1.6
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°	48054.0	100.0
0°-180°	48054.0	100.0

Coefficient of Utilization



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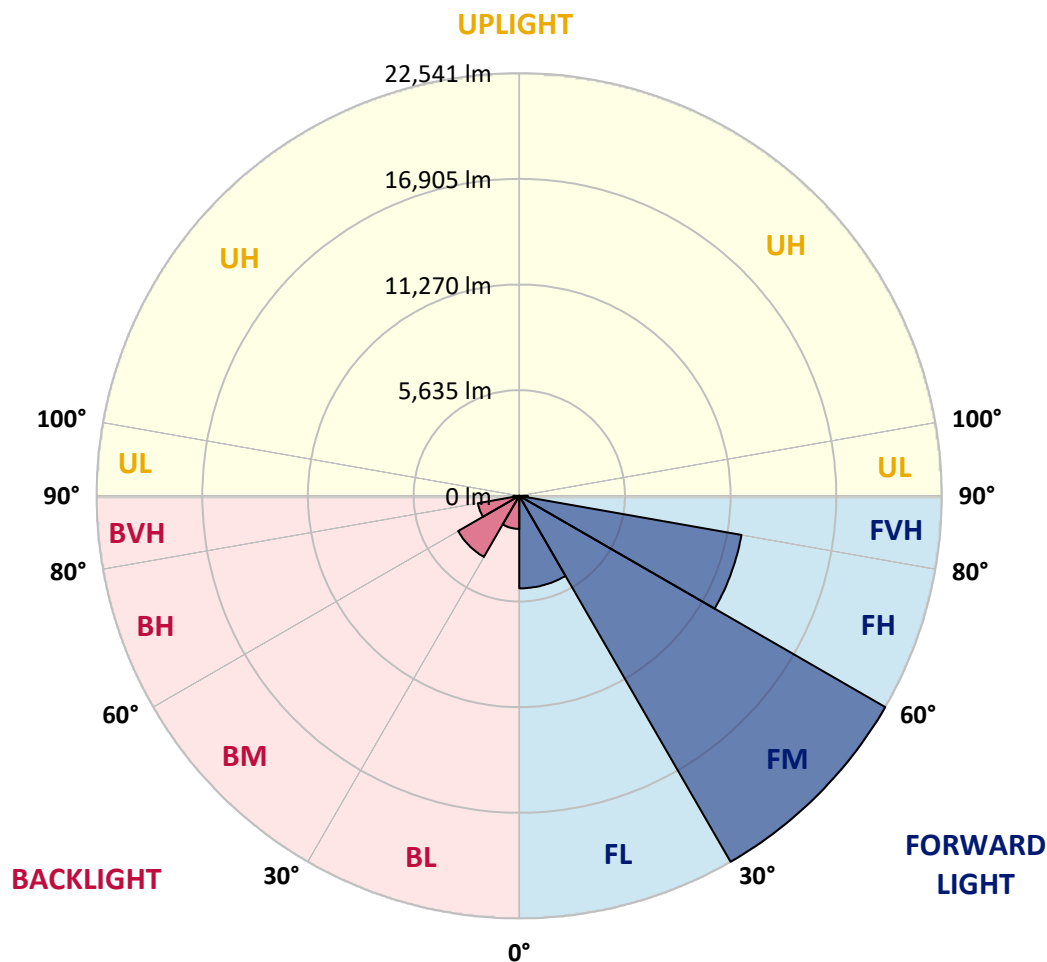
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4935.0	10.3			
FM	(30°-60°)	22540.7	46.9			
FH	(60°-80°)	12035.5	25.0			G5
FVH	(80°-90°)	457.0	1.0			G3/500
BL	(0°-30°)	1763.6	3.7	B3/2500		
BM	(30°-60°)	3765.3	7.8	B3/5000		
BH	(60°-80°)	2240.2	4.7	B3/2500		G3/2500
BVH	(80°-90°)	316.9	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4388.4	4388.4	4388.4	4388.4	4388.4	4388.4	4388.4	4388.4	4388.4	4388.4	4388.4
2.5°	5825.7	5737.6	5729.4	5600.5	5571.2	5324.8	5143.7	4954.5	4739.2	4696.7	4527.1
5°	7483.1	7475.0	7362.4	7152.0	6987.2	6566.3	6150.3	5709.8	5226.9	5148.6	4766.9
7.5°	8974.2	8961.2	8874.7	8647.9	8409.8	7892.6	7298.8	6623.4	5840.3	5724.5	5091.5
10°	10106.4	10101.5	10072.1	9905.7	9703.5	9207.5	8551.7	7630.0	6553.3	6395.0	5497.8
12.5°	10980.8	10990.6	11010.2	10951.5	10855.2	10432.7	9760.6	8696.9	7313.5	7156.9	5949.6
15°	11573.0	11602.4	11703.5	11786.7	11837.3	11577.9	10927.0	9788.3	8165.1	7977.5	6450.5
17.5°	11871.6	11904.2	12078.7	12330.0	12561.6	12535.5	12018.4	10829.1	8982.4	8801.3	6988.8
20°	12129.3	12153.8	12349.6	12651.4	13060.8	13241.9	12951.5	11830.8	9878.0	9662.7	7559.8
22.5°	12876.5	12907.5	12966.2	13137.5	13499.7	13832.5	13692.2	12778.6	10698.6	10497.9	8101.4
25°	14318.6	14356.1	14228.9	14083.7	14152.2	14383.9	14410.0	13643.2	11530.6	11303.8	8683.8
27.5°	16056.0	16109.9	15892.9	15519.3	15193.0	15103.3	15072.3	14351.3	12325.1	12062.4	9259.7
30°	17757.6	17850.6	17568.3	17083.8	16485.1	16064.2	15752.6	15044.6	13108.1	12856.9	9803.0
32.5°	19420.0	19382.4	18973.0	18499.9	17798.4	17271.4	16517.7	15788.5	13989.1	13700.3	10343.0
35°	20558.7	20571.7	20191.6	19630.4	18961.5	18557.0	17542.2	16591.1	14888.0	14622.1	10956.4
37.5°	21527.7	21467.3	21036.7	20513.0	19937.1	19764.2	18741.3	17475.3	15861.9	15571.5	11608.9
40°	21850.7	21780.6	21498.3	21121.5	20659.8	20645.1	20064.4	18477.0	16963.1	16676.0	12344.7
42.5°	21654.9	21565.2	21449.4	21346.6	21204.7	21269.9	21307.5	19651.6	18173.6	17852.2	13196.2
45°	20932.2	20796.8	20878.4	21101.9	21410.2	21778.9	22429.9	20951.8	19529.3	19260.1	14196.3
47.5°	19821.3	19698.9	19953.4	20431.4	21269.9	22203.1	23491.9	22387.4	21147.6	20880.0	15620.5
50°	18258.4	18294.3	18658.1	19527.6	20795.2	22398.9	24800.2	24288.0	23500.0	23250.4	17563.4
52.5°	15693.9	15700.4	16724.9	18152.4	19953.4	22297.7	25526.2	26717.1	26712.2	26410.4	19413.4
55°	13312.1	13457.3	14268.1	16165.4	18589.6	21893.1	26033.6	27898.2	28821.6	28467.6	21137.8
57.5°	10985.7	11070.5	11838.9	13744.4	16643.3	20814.8	26554.0	29315.9	31252.4	31028.9	23281.4
60°	8339.6	8470.1	9264.6	11024.9	14153.9	18901.2	26602.9	30795.6	34157.8	33932.7	25674.7
62.5°	5412.9	5638.1	6382.0	8031.3	11142.3	16149.0	25467.5	31763.0	36911.6	36831.7	27798.7
65°	3111.0	3280.7	3797.9	5070.3	7687.1	12693.8	22767.5	31391.0	38606.6	38560.9	28593.2
66°	2541.7	2647.7	3044.2	3962.6	6342.8	11147.2	21198.2	30606.3	38774.7	38776.3	28501.9
67.5°	2032.7	2080.0	2257.8	2837.0	4680.4	8835.6	18393.8	28875.4	38565.8	38622.9	27912.9
70°	1682.0	1706.4	1761.9	1902.2	2554.7	5328.1	13055.9	24377.7	36469.5	36513.6	25614.3
72.5°	1509.0	1523.7	1544.9	1564.5	1802.7	2977.3	7974.2	19501.5	31975.1	32032.2	22111.7
75°	1367.1	1375.3	1372.0	1373.6	1512.3	1897.3	4120.9	14560.1	25854.1	25739.9	16938.6
77.5°	1200.7	1208.9	1192.5	1195.8	1337.7	1458.5	2050.6	10192.9	17447.6	16641.7	9543.6
80°	1014.7	1021.2	1014.7	1026.1	1164.8	1101.2	1192.5	5734.3	7714.8	7297.2	3393.3
82.5°	766.7	794.5	814.1	859.7	959.3	783.1	797.7	2233.4	2349.2	2236.6	1040.8
85°	336.1	409.5	613.4	657.4	721.1	469.8	523.7	910.3	956.0	926.6	378.5
87.5°	88.1	96.3	303.4	381.7	399.7	212.1	272.4	414.4	437.2	414.4	125.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4388.4	4388.4	4388.4	4388.4	4388.4	4388.4	4388.4	4388.4	4388.4	4388.4	4388.4
2.5°	4437.4	4357.4	4213.9	4086.6	3990.4	3925.1	3859.8	3827.2	3807.6	3788.1	3791.3
5°	4579.3	4417.8	4171.4	3996.9	3899.0	3837.0	3804.4	3791.3	3783.2	3763.6	3763.6
7.5°	4793.0	4564.6	4225.3	4045.8	3969.1	3921.8	3902.3	3895.7	3885.9	3863.1	3866.4
10°	5062.2	4742.4	4337.8	4163.3	4093.1	4040.9	4013.2	4003.4	3985.5	3959.4	3962.6
12.5°	5378.7	4962.7	4486.3	4303.6	4218.8	4148.6	4102.9	4075.2	4044.2	4009.9	4011.6
15°	5724.5	5202.5	4646.2	4429.2	4313.4	4215.5	4142.1	4094.8	4045.8	4003.4	4001.8
17.5°	6075.3	5434.1	4768.5	4497.7	4341.1	4212.2	4112.7	4039.3	3978.9	3926.7	3921.8
20°	6453.7	5642.9	4837.0	4491.2	4288.9	4135.6	4003.4	3912.1	3845.2	3793.0	3784.8
22.5°	6838.7	5838.7	4848.5	4424.3	4173.1	3985.5	3846.8	3745.7	3677.1	3623.3	3603.7
25°	7191.1	5990.4	4801.2	4295.4	4011.6	3809.3	3673.9	3571.1	3515.6	3452.0	3432.4
27.5°	7512.5	6096.5	4706.5	4130.7	3830.5	3631.5	3504.2	3416.1	3355.8	3306.8	3290.5
30°	7801.3	6153.6	4551.6	3934.9	3644.5	3463.4	3355.8	3295.4	3243.2	3181.2	3169.8
32.5°	8075.3	6153.6	4352.5	3721.2	3460.2	3315.0	3251.3	3213.8	3155.1	3094.7	3078.4
35°	8349.4	6116.0	4117.6	3497.7	3290.5	3208.9	3205.7	3161.6	3071.9	2990.3	2969.1
37.5°	8638.2	6039.4	3853.3	3288.9	3151.8	3161.6	3189.3	3091.5	2964.2	2848.4	2817.4
40°	8964.4	5933.3	3579.2	3107.8	3036.0	3140.4	3145.3	2990.3	2742.4	2636.3	2608.6
42.5°	9347.8	5827.3	3324.8	2947.9	2944.6	3076.8	3062.1	2771.7	2623.3	2569.4	2554.7
45°	9851.9	5766.9	3083.3	2796.2	2872.9	2974.0	2920.2	2651.0	2589.0	2558.0	2545.0
47.5°	10646.4	5797.9	2861.4	2675.5	2801.1	2871.2	2655.9	2602.1	2558.0	2520.5	2507.4
50°	11641.5	5780.0	2682.0	2592.3	2719.5	2763.6	2536.8	2538.4	2515.6	2473.2	2453.6
52.5°	12390.3	5639.7	2566.2	2545.0	2647.7	2572.7	2461.8	2476.4	2465.0	2403.0	2381.8
55°	13113.0	5519.0	2507.4	2527.0	2595.5	2334.5	2373.7	2409.5	2398.1	2337.8	2328.0
57.5°	14011.9	5496.1	2471.5	2531.9	2551.5	2215.4	2288.8	2336.1	2328.0	2301.9	2297.0
60°	15113.1	5502.6	2438.9	2540.1	2502.5	2127.3	2208.9	2269.3	2274.1	2269.3	2266.0
62.5°	15718.4	5324.8	2357.3	2517.2	2416.1	2050.6	2125.7	2213.8	2215.4	2225.2	2223.6
65°	15204.5	4793.0	2205.6	2437.3	2270.9	1987.0	2053.9	2150.2	2125.7	2169.7	2169.7
66°	14705.3	4486.3	2130.6	2385.1	2208.9	1962.6	2031.1	2117.5	2086.5	2146.9	2146.9
67.5°	13685.7	3969.1	1995.2	2274.1	2120.8	1928.3	2005.0	2063.7	2021.3	2111.0	2104.5
70°	11822.6	3070.3	1722.7	2022.9	1975.6	1877.7	1969.1	1956.0	1894.0	2031.1	2005.0
72.5°	9967.7	2332.9	1383.4	1693.4	1755.4	1814.1	1918.5	1819.0	1740.7	1836.9	1779.8
75°	7734.4	1753.7	1093.0	1316.5	1482.9	1714.6	1858.1	1660.7	1548.2	1538.4	1507.4
77.5°	4181.2	1204.0	866.3	1004.9	1177.9	1590.6	1817.4	1491.1	1321.4	1282.3	1257.8
80°	1655.9	783.1	629.7	761.9	823.8	1411.1	1719.5	1293.7	1089.8	1050.6	1013.1
82.5°	683.5	463.3	406.2	510.6	536.7	1207.2	1543.3	1060.4	841.8	1164.8	1236.6
85°	293.6	254.5	241.4	264.3	303.4	846.7	1228.4	809.2	908.7	810.8	644.4
87.5°	88.1	107.7	102.8	101.1	110.9	202.3	654.2	450.3	667.2	252.9	189.2
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)