

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: P317693

Luminaire Tested: **GAN-SA9C-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317693
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54069 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

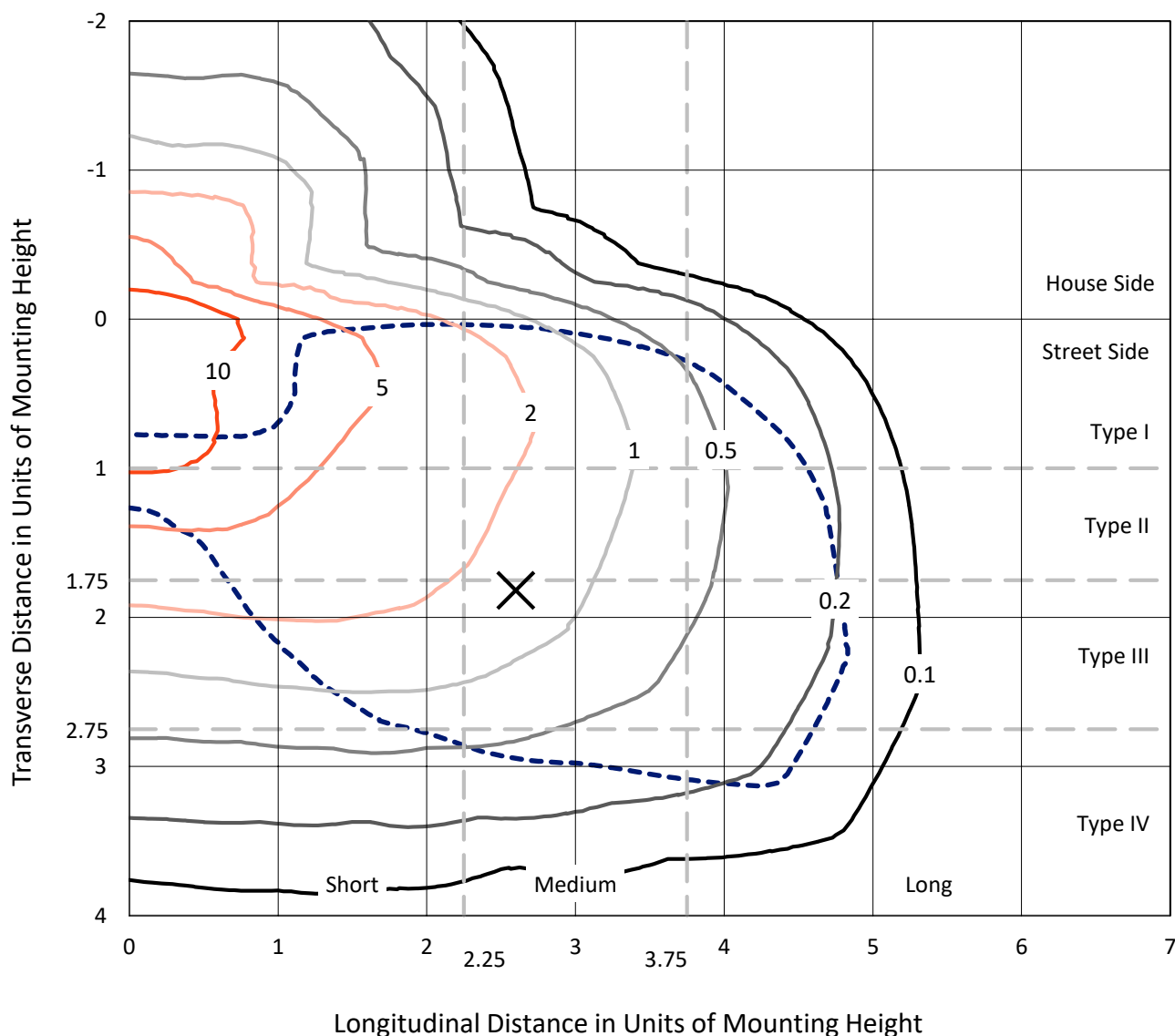
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

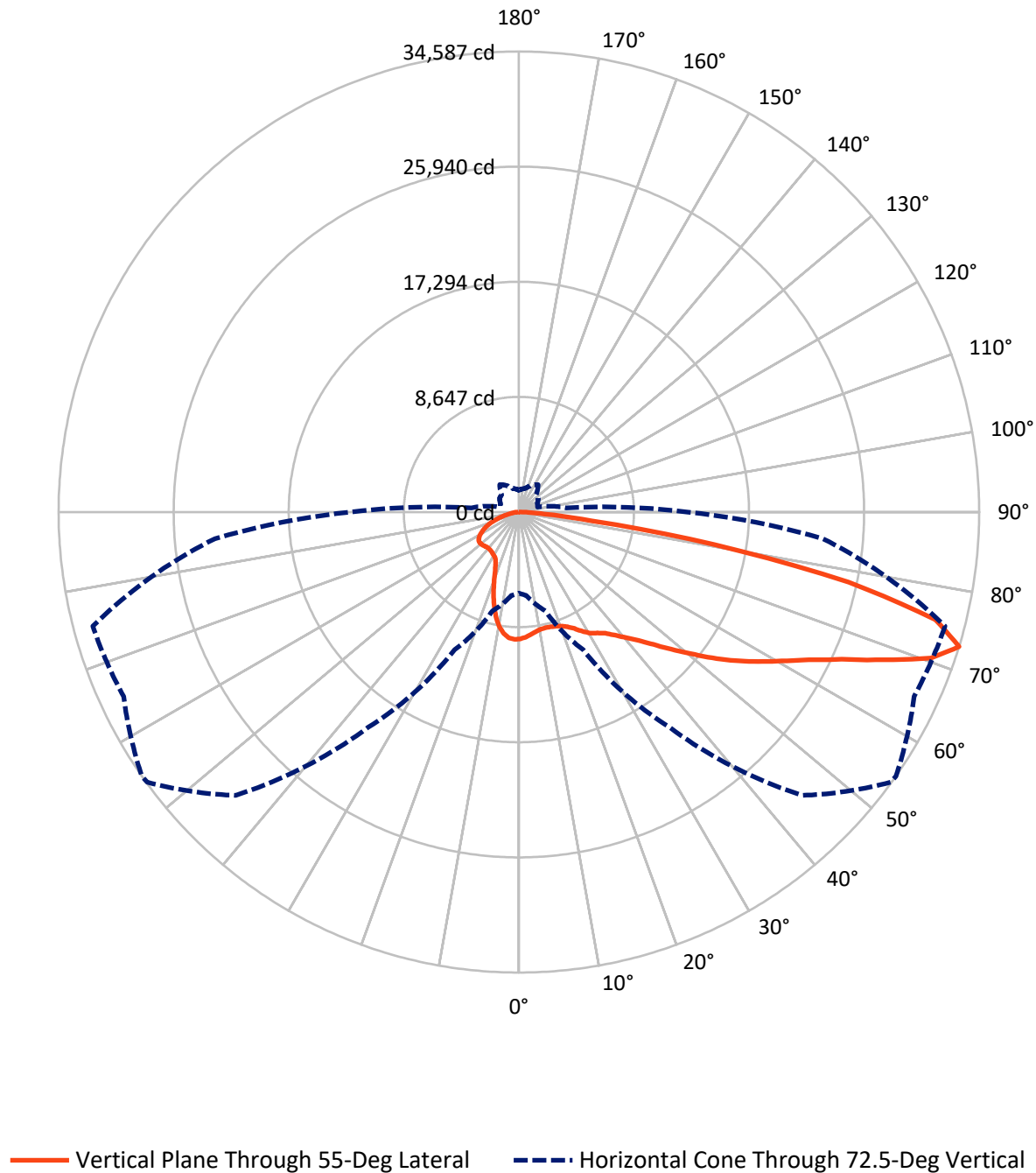
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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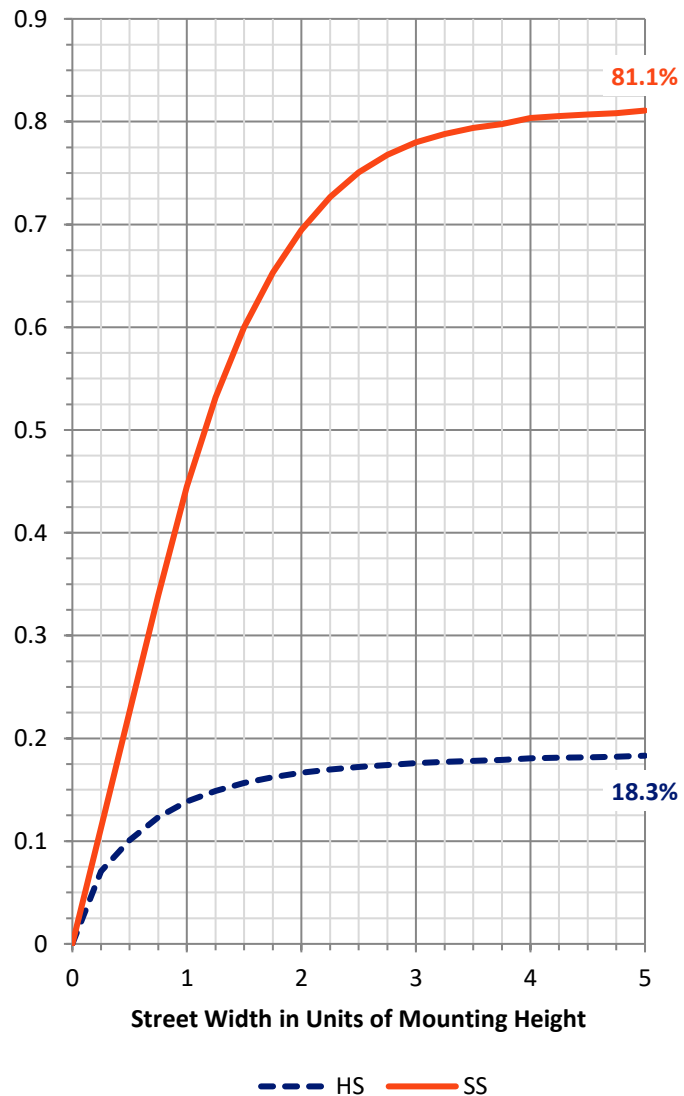
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10049.7	0.0	10049.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	44019.3	0.0	44019.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	54069.0	0.0	54069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	862.9	1.6
10°-20°	2297.5	4.2
20°-30°	3788.0	7.0
30°-40°	5603.4	10.4
40°-50°	7821.2	14.5
50°-60°	10183.4	18.8
60°-70°	12515.1	23.1
70°-80°	9810.3	18.1
80°-90°	1187.2	2.2
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°	54069.0	100.0
0°-180°	54069.0	100.0

Coefficient of Utilization



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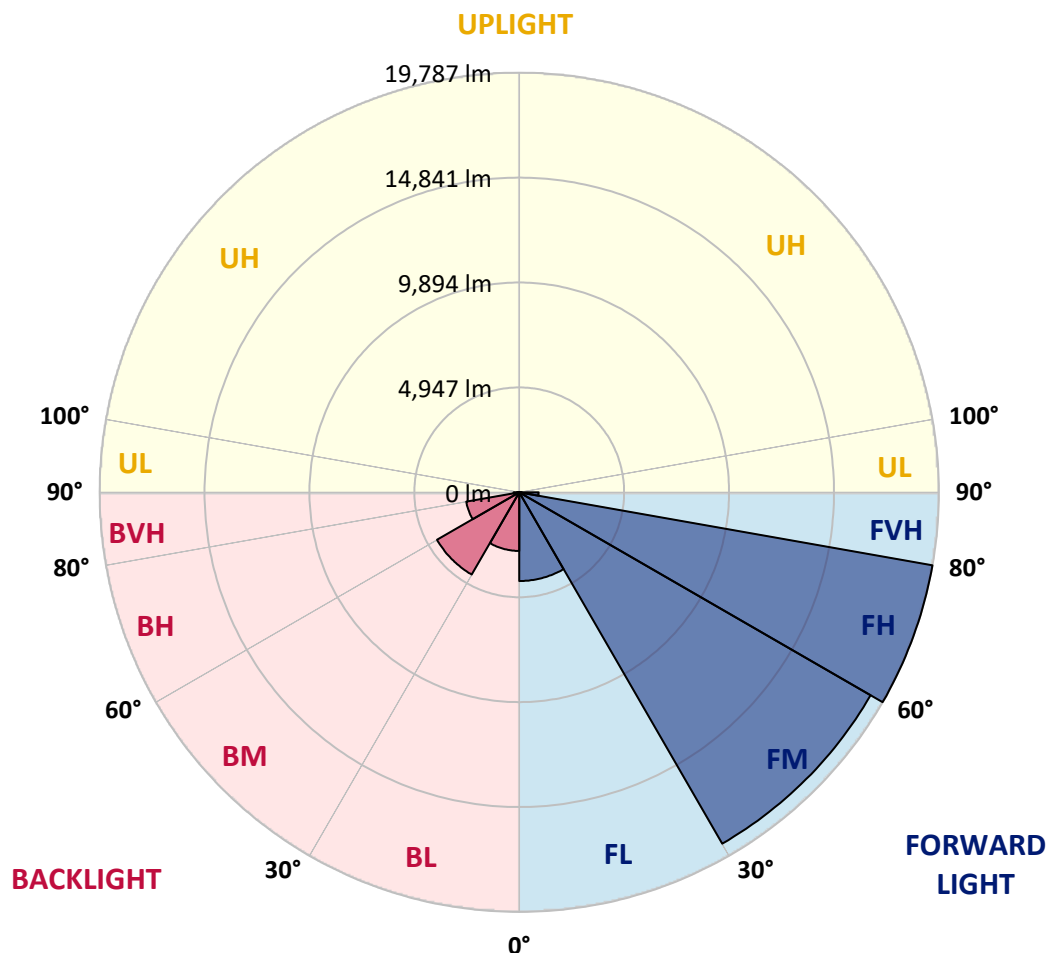
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4183.4	7.7			
FM	(30°-60°)	19130.7	35.4			
FH	(60°-80°)	19787.4	36.6			G5
FVH	(80°-90°)	917.9	1.7			G5
BL	(0°-30°)	2765.1	5.1	B4/5000		
BM	(30°-60°)	4477.3	8.3	B3/5000		
BH	(60°-80°)	2538.0	4.7	B4/5000		G4/5000
BVH	(80°-90°)	269.3	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9536.6	9536.6	9536.6	9536.6	9536.6	9536.6	9536.6	9536.6	9536.6	9536.6	9536.6
2.5°	9226.1	9204.2	9231.6	9270.0	9312.0	9368.6	9401.5	9416.1	9472.7	9494.6	9542.1
5°	8798.8	8787.9	8833.5	8899.3	8992.4	9123.9	9229.8	9249.9	9399.6	9505.6	9602.4
7.5°	8488.3	8488.3	8541.3	8619.8	8723.9	8901.1	9050.8	9078.2	9332.1	9560.3	9739.3
10°	8241.8	8250.9	8313.0	8406.2	8528.5	8716.6	8915.7	8946.7	9313.8	9688.2	9973.1
12.5°	8077.4	8099.4	8156.0	8240.0	8391.6	8619.8	8871.9	8913.9	9352.2	9870.8	10254.3
15°	8181.5	8218.1	8223.5	8258.2	8342.2	8590.6	8897.4	8941.3	9434.3	10057.1	10573.9
17.5°	8638.1	8650.9	8594.3	8521.2	8481.0	8639.9	8974.1	9019.8	9533.0	10241.5	10880.7
20°	9332.1	9324.8	9202.4	9005.2	8800.6	8826.2	9100.1	9147.6	9666.3	10404.1	11187.5
22.5°	10208.7	10183.1	9995.0	9631.6	9282.8	9136.7	9321.1	9361.3	9867.2	10636.0	11516.2
25°	11271.5	11214.9	10966.6	10478.9	9965.8	9589.6	9653.5	9691.8	10159.4	10895.3	11817.6
27.5°	12392.8	12336.2	12020.3	11430.4	10747.4	10161.2	10111.9	10144.7	10491.7	11087.1	12040.4
30°	13565.3	13505.0	13216.5	12555.4	11576.5	10752.9	10539.2	10552.0	10725.5	11191.2	12223.0
32.5°	14743.2	14686.6	14363.4	13596.3	12476.8	11388.4	10847.8	10831.4	10866.1	11298.9	12429.4
35°	15937.6	15959.5	15581.5	14732.3	13474.0	12095.2	11213.1	11178.4	11101.7	11519.9	12721.6
37.5°	17215.9	17201.3	16711.9	15824.3	14516.8	12862.2	11737.2	11731.7	11466.9	11938.1	13180.0
40°	18070.6	18079.7	17782.1	16942.0	15570.5	13711.4	12409.3	12396.5	12049.5	12564.5	13780.8
42.5°	18404.8	18465.1	18541.8	18008.5	16673.5	14695.7	13211.0	13192.7	12862.2	13463.0	14487.5
45°	18428.6	18549.1	19023.9	18956.3	17791.2	15822.5	14235.5	14184.4	13947.0	14657.4	15331.3
47.5°	18224.0	18348.2	19137.1	19520.6	18790.1	17011.4	15433.5	15393.3	15188.8	16151.2	16244.4
50°	17776.6	17895.3	18903.4	19796.4	19612.0	18154.6	16814.2	16708.2	16598.7	17877.0	17289.0
52.5°	16938.3	17166.6	18591.1	19862.2	20103.2	19170.0	18266.0	18196.6	18256.9	19697.8	18335.4
55°	14953.2	15208.9	17785.7	19807.4	20466.6	20022.9	19717.9	19714.2	20026.5	21608.0	19458.6
57.5°	13841.0	14021.8	16145.8	19714.2	20897.6	20870.2	21155.1	21189.8	21798.0	23688.1	20634.6
60°	13212.8	13402.8	15314.8	19369.1	21566.0	21966.0	22621.6	22691.0	23598.6	25991.0	22050.0
62.5°	12641.2	12849.4	14799.8	18666.0	22353.1	23532.9	24378.4	24440.5	25505.2	28357.8	23417.8
65°	11664.2	11899.8	14045.6	18203.9	23069.0	25576.4	26611.9	26653.9	27694.9	30837.8	24464.3
67.5°	10283.5	10499.0	12622.9	17183.1	23598.6	28058.3	29581.4	29605.1	29866.3	32589.2	24999.4
70°	8671.0	8753.2	10595.8	15075.6	22972.2	30379.4	32835.7	32841.2	31845.9	33710.5	24911.7
72.5°	6092.3	6285.9	7692.1	11412.2	19741.6	30096.4	34525.0	34587.1	32766.3	33144.4	22921.1
75°	3736.5	3941.0	4824.9	6916.0	12524.3	23669.9	31898.9	32329.9	31040.5	29552.2	18724.4
77.5°	2498.3	2575.0	3148.4	4032.3	5674.1	13618.2	24524.5	25335.4	25786.5	21551.4	11974.6
80°	1393.4	1539.5	2087.4	2505.6	2523.9	5411.1	14704.9	14894.8	14346.9	8581.5	3694.5
82.5°	737.8	818.2	1393.4	1471.9	1377.0	1811.6	5480.5	5486.0	4583.9	2301.1	1097.6
85°	571.6	639.2	955.1	898.5	703.1	803.5	1808.0	1906.6	1559.6	942.3	357.9
87.5°	284.9	354.3	648.3	569.8	275.8	230.1	646.5	690.3	615.4	368.9	129.7
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°	9536.6	9536.6	9536.6	9536.6	9536.6	9536.6	9536.6	9536.6	9536.6	9536.6	9536.6
2.5°	9560.3	9576.8	9596.9	9575.0	9567.7	9538.4	9489.1	9478.2	9452.6	9454.4	9469.0
5°	9644.4	9671.7	9660.8	9576.8	9476.3	9335.7	9189.6	9065.4	8983.3	8977.8	8972.3
7.5°	9805.1	9823.3	9737.5	9498.3	9217.0	8891.9	8585.1	8316.7	8154.1	8114.0	8104.8
10°	10057.1	10053.4	9817.8	9335.7	8775.1	8194.3	7701.2	7328.7	7111.4	7047.4	7031.0
12.5°	10338.3	10296.3	9845.2	9039.9	8150.5	7345.1	6720.6	6306.0	6079.5	6006.5	5988.2
15°	10628.7	10524.6	9777.7	8597.9	7383.5	6430.2	5774.6	5391.1	5268.7	5228.5	5221.2
17.5°	10899.0	10698.1	9584.1	7998.9	6508.7	5518.9	5007.5	4854.1	4883.4	4936.3	4938.1
20°	11163.8	10815.0	9273.6	7242.9	5586.5	4768.3	4594.8	4708.0	4846.8	4954.6	4969.2
22.5°	11424.9	10897.2	8873.7	6369.9	4761.0	4346.4	4468.8	4675.2	4834.0	4950.9	4971.0
25°	11644.1	10917.2	8322.2	5438.5	4187.6	4187.6	4408.5	4603.9	4761.0	4876.1	4896.1
27.5°	11724.4	10782.1	7544.2	4576.5	3899.0	4114.5	4324.5	4487.1	4620.4	4742.7	4764.7
30°	11755.5	10531.9	6645.7	3884.4	3780.3	4036.0	4211.3	4350.1	4476.1	4591.2	4611.2
32.5°	11761.0	10230.6	5692.4	3491.8	3698.1	3953.8	4070.7	4193.0	4328.2	4373.8	4381.1
35°	11795.7	9874.5	4687.9	3290.9	3621.4	3877.1	3970.2	4057.9	3838.7	3855.2	3869.8
37.5°	11896.1	9522.0	3847.9	3177.7	3572.1	3836.9	3948.3	3630.6	3458.9	3418.7	3413.2
40°	12084.2	9145.8	3225.1	3086.3	3553.9	3857.0	3807.7	3389.5	3093.6	2872.7	2839.8
42.5°	12345.4	8740.4	2827.0	3026.1	3566.6	3953.8	3612.3	3157.6	2666.3	2523.9	2505.6
45°	12639.4	8314.9	2611.5	2984.1	3610.5	4028.7	3572.1	2848.9	2467.2	2359.5	2350.4
47.5°	12924.3	7794.4	2500.1	2965.8	3670.7	3968.4	3402.3	2754.0	2372.3	2315.7	2321.1
50°	13251.2	7325.0	2432.5	2945.7	3723.7	3930.1	3210.5	2704.7	2335.8	2405.2	2478.2
52.5°	13526.9	6839.3	2372.3	2905.5	3743.8	3862.5	3161.2	2713.8	2335.8	2469.1	2538.5
55°	13853.8	6472.2	2302.9	2821.5	3705.4	3670.7	3126.5	2768.6	2363.2	2279.1	2286.4
57.5°	14275.7	6351.7	2226.2	2690.0	3577.6	3391.3	3110.1	2821.5	2346.7	2293.8	2312.0
60°	14860.1	6479.5	2195.1	2518.4	3378.5	3172.2	3111.9	2794.1	2231.7	2140.3	2142.2
62.5°	15417.1	6621.9	2193.3	2410.6	3133.8	2976.8	3069.9	2704.7	2173.2	2120.3	2140.3
65°	15599.7	6477.7	2105.7	2290.1	2858.1	2743.0	2993.2	2609.7	2129.4	2049.0	2045.4
67.5°	15355.0	6030.2	1928.5	2094.7	2542.1	2470.9	2892.8	2496.5	2060.0	1994.3	1983.3
70°	14628.2	5031.3	1709.4	1837.2	2182.4	2164.1	2733.9	2365.0	1966.9	1910.2	1862.8
72.5°	12672.3	3584.9	1440.9	1528.6	1776.9	1835.4	2514.7	2193.3	1835.4	1713.0	1640.0
75°	10407.7	2653.5	1183.4	1201.7	1349.6	1508.5	2213.4	1992.4	1680.1	1471.9	1415.3
77.5°	6373.6	1623.5	942.3	949.6	967.9	1203.5	1822.6	1767.8	1482.9	1227.2	1187.1
80°	2063.6	885.7	681.2	715.9	661.1	882.1	1409.9	1504.8	1272.9	1026.3	982.5
82.5°	785.3	516.8	460.2	484.0	458.4	591.7	1028.2	1205.3	1042.8	843.7	686.7
85°	379.9	292.2	272.1	305.0	283.1	303.2	657.4	887.6	790.8	549.7	511.3
87.5°	135.1	129.7	104.1	140.6	120.5	107.7	200.9	447.4	522.3	378.0	337.9
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)