

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: P841939

Luminaire Tested: **ARCH4-250-722-U-T2U-HSS**

Issue Date: 5/27/2024

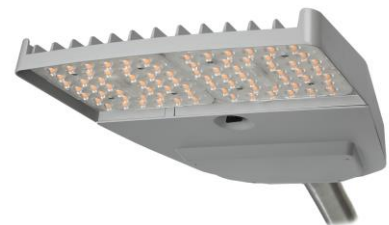
Test Information

Test Method: LM-79-08
Report Number: P841939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-250-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22497 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 249.5
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

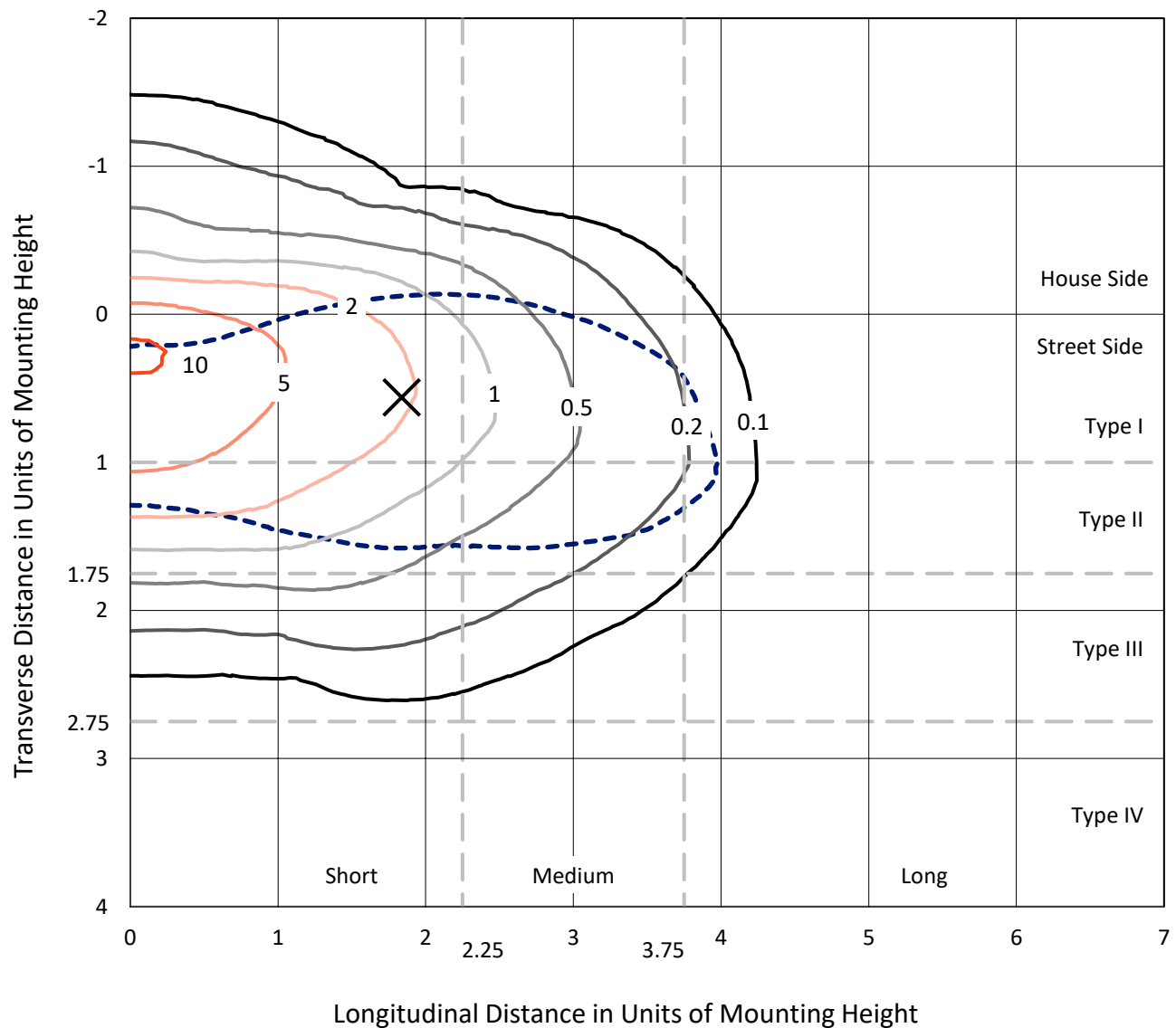


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

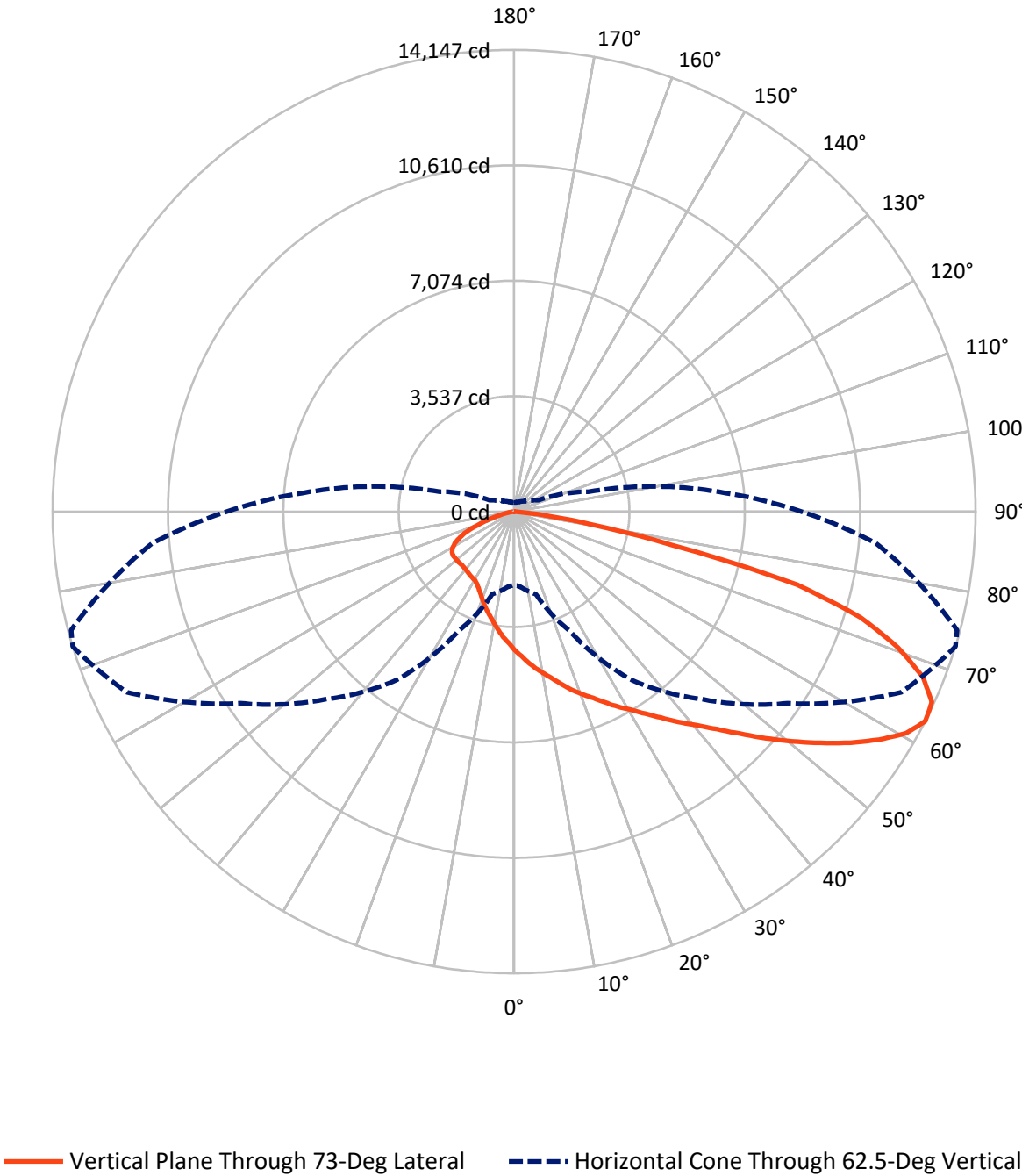


Based on 25 foot mounting height. Maximum calculated value = 10.7 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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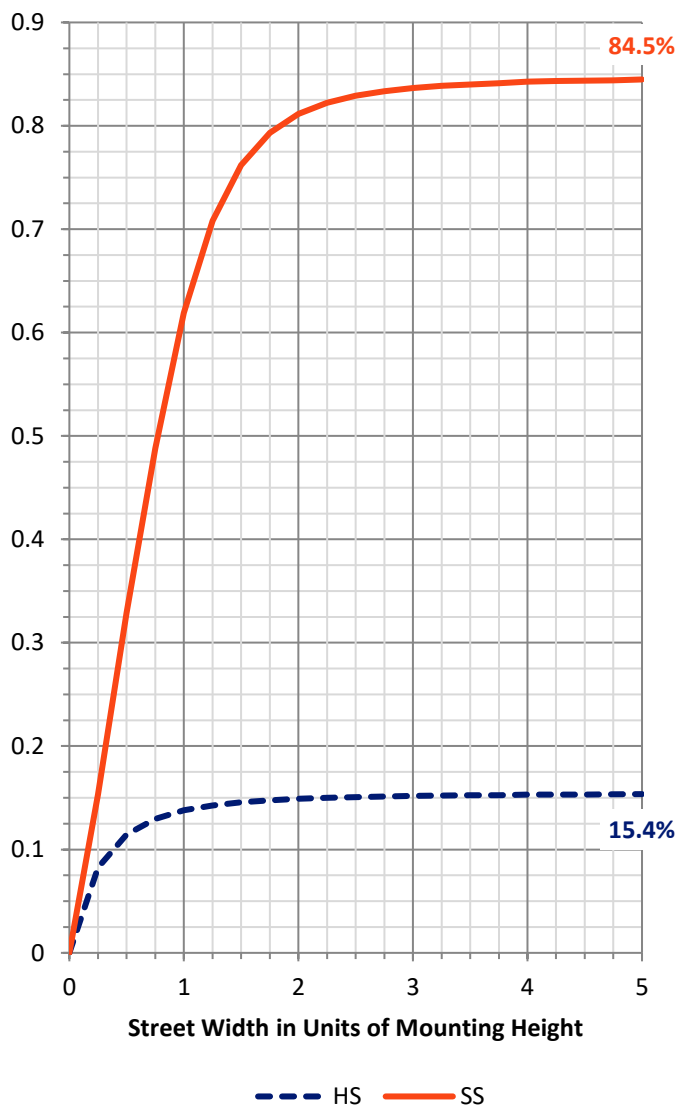
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3487.4	0.0	3487.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	19009.6	0.0	19009.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	22497.0	0.0	22497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.5	1.8
10°-20°	1241.8	5.5
20°-30°	2067.0	9.2
30°-40°	3118.8	13.9
40°-50°	4359.3	19.4
50°-60°	4815.1	21.4
60°-70°	4194.6	18.6
70°-80°	2118.9	9.4
80°-90°	170.1	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°	22497.0	100.0
0°-180°	22497.0	100.0

Coefficient of Utilization



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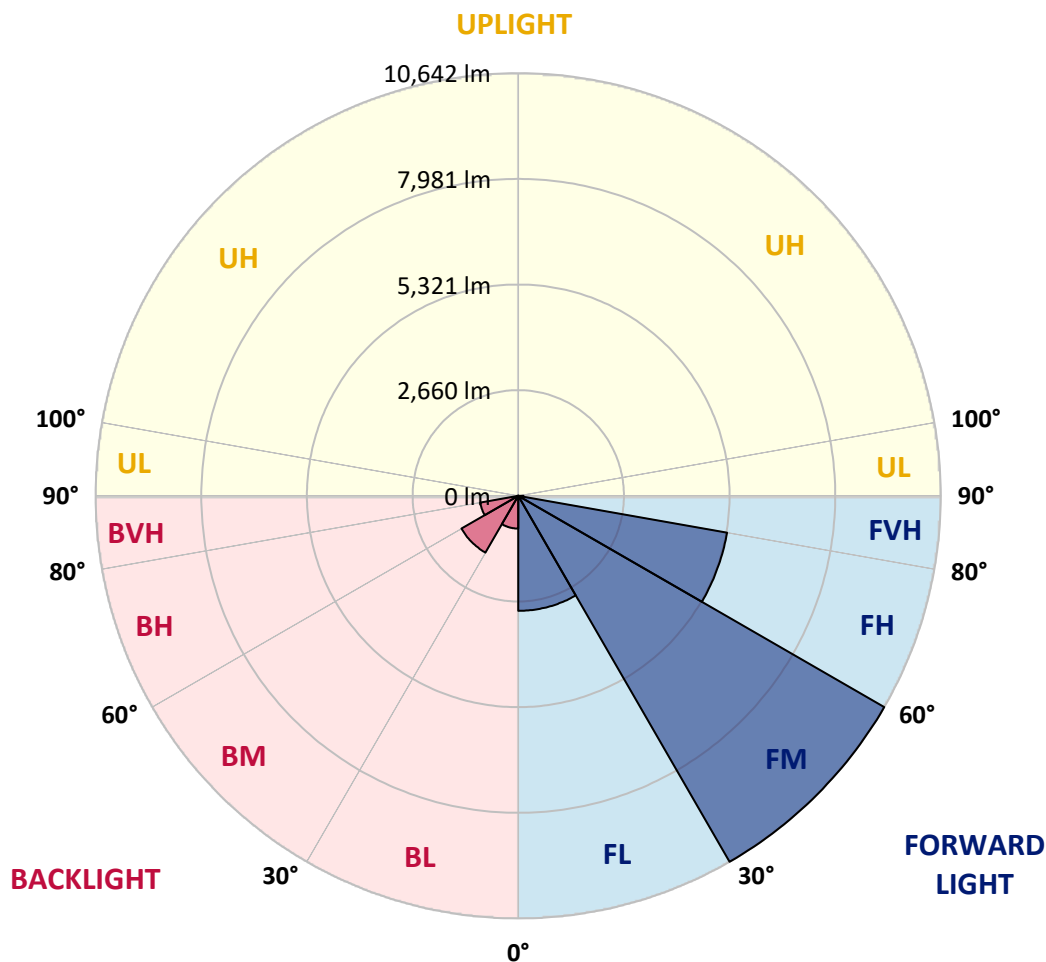
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2896.1	12.9			
FM	(30°-60°)	10641.9	47.3			
FH	(60°-80°)	5340.1	23.7			G3/7500
FVH	(80°-90°)	131.6	0.6			G2/225
BL	(0°-30°)	824.3	3.7	B2/1000		
BM	(30°-60°)	1651.3	7.3	B2/2500		
BH	(60°-80°)	973.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	38.4	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	4259.9	4259.9	4259.9	4259.9	4259.9	4259.9	4259.9	4259.9	4259.9	4259.9	4259.9
2.5°	4848.1	4902.0	4872.6	4892.2	4794.2	4730.4	4656.9	4514.8	4436.3	4426.5	4333.4
5°	5558.9	5617.7	5568.7	5554.0	5382.4	5235.4	5068.7	4818.7	4652.0	4622.6	4416.7
7.5°	6269.7	6323.6	6264.8	6220.7	5990.3	5730.5	5485.4	5117.7	4857.9	4808.9	4485.3
10°	6769.7	6818.7	6774.6	6730.5	6490.3	6225.6	5877.5	5397.1	5044.2	4965.7	4529.5
12.5°	7147.1	7176.6	7156.9	7117.7	6892.2	6607.9	6274.6	5710.9	5255.0	5156.9	4598.1
15°	7456.0	7505.0	7480.5	7451.1	7235.4	6951.1	6632.4	6039.3	5500.1	5377.5	4701.0
17.5°	7661.9	7696.2	7701.1	7701.1	7509.9	7230.5	6921.7	6338.3	5745.2	5588.3	4799.1
20°	7755.0	7794.2	7818.7	7857.9	7701.1	7460.9	7147.1	6593.2	5975.6	5799.1	4892.2
22.5°	7799.1	7833.4	7897.2	7985.4	7857.9	7657.0	7367.7	6828.5	6206.0	6019.7	5000.1
25°	7833.4	7877.5	7970.7	8137.4	8049.1	7877.5	7627.5	7098.1	6480.5	6289.3	5156.9
27.5°	7926.6	7980.5	8068.7	8269.7	8161.9	8078.5	7902.1	7387.3	6769.7	6573.6	5348.1
30°	8250.1	8294.2	8289.3	8416.8	8284.4	8259.9	8137.4	7666.8	7049.1	6853.0	5573.6
32.5°	8838.3	8882.5	8774.6	8725.6	8436.4	8441.3	8392.3	7965.8	7382.4	7181.5	5833.4
35°	9470.7	9519.7	9377.6	9294.2	8808.9	8666.8	8691.3	8338.3	7755.0	7554.0	6156.9
37.5°	10034.4	10093.3	9970.7	9848.2	9358.0	9029.5	9024.6	8755.0	8181.5	7975.6	6514.8
40°	10343.3	10411.9	10485.4	10416.8	9902.1	9539.3	9382.5	9181.5	8603.0	8392.3	6902.0
42.5°	10490.3	10681.5	10813.9	10769.7	10348.2	9980.5	9794.2	9627.6	9117.8	8911.9	7362.8
45°	10078.6	10083.5	10362.9	10603.1	10524.6	10279.5	10245.2	10127.6	9706.0	9509.9	7882.4
47.5°	9563.8	9524.6	9720.7	10147.2	10367.8	10431.5	10632.5	10681.5	10377.6	10181.5	8411.9
50°	8328.5	8353.0	8990.3	9603.1	10034.4	10446.2	10907.0	11250.1	11068.8	10882.5	8970.7
52.5°	6774.6	6833.4	7563.8	8911.9	9593.3	10299.1	11068.8	11818.8	11774.6	11598.2	9529.5
55°	5431.4	5524.6	6299.1	7759.9	9029.5	9970.7	11137.4	12338.4	12505.1	12343.3	10078.6
57.5°	4152.0	4250.1	4902.0	6402.0	8308.9	9436.4	11088.4	12794.3	13186.4	13083.5	10583.5
60°	3127.5	3225.5	3642.2	5191.2	7407.0	8838.3	10843.3	13093.3	13799.2	13691.3	10951.1
62.5°	2240.2	2318.7	2627.5	4039.3	6308.9	8127.5	10240.3	13098.2	14147.2	14059.0	11127.6
65°	1612.8	1612.8	1862.8	2882.4	5279.5	7274.6	9328.5	12495.2	14073.7	14049.2	11005.0
67.5°	1161.8	1171.6	1372.6	2014.7	4210.8	6240.3	8147.2	11421.7	13505.1	13627.6	10563.9
70°	823.5	848.0	941.2	1406.9	3181.4	4926.5	6882.4	10014.8	12480.5	12696.2	9710.9
72.5°	637.3	652.0	715.7	980.4	2323.6	3661.8	5485.4	8446.2	11112.9	11358.0	8549.1
75°	490.2	504.9	553.9	720.6	1666.7	2568.7	3897.1	6554.0	8960.9	9397.2	6867.7
77.5°	357.8	377.5	411.8	524.5	970.6	1632.4	2362.8	3686.3	4946.1	5152.0	3598.1
80°	166.7	191.2	240.2	338.2	524.5	769.6	838.2	1421.6	2377.5	2485.3	1951.0
82.5°	93.1	117.6	137.3	205.9	264.7	274.5	284.3	357.8	897.1	990.2	818.6
85°	44.1	58.8	63.7	88.2	88.2	78.4	93.1	68.6	147.1	176.5	171.6
87.5°	0.0	4.9	9.8	24.5	19.6	14.7	14.7	14.7	14.7	19.6	14.7
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°	4259.9	4259.9	4259.9	4259.9	4259.9	4259.9	4259.9	4259.9	4259.9	4259.9	4259.9
2.5°	4289.3	4225.5	4078.5	3951.0	3867.7	3794.2	3696.1	3652.0	3573.6	3588.3	3544.2
5°	4313.8	4196.1	3936.3	3696.1	3519.6	3362.8	3191.2	3093.2	2985.3	2975.5	2941.2
7.5°	4328.5	4147.1	3774.6	3436.3	3166.7	2926.5	2696.1	2568.7	2436.3	2406.9	2377.5
10°	4313.8	4073.6	3607.9	3166.7	2808.9	2509.8	2250.0	2088.3	1951.0	1916.7	1887.3
12.5°	4328.5	4034.4	3451.0	2916.7	2490.2	2152.0	1857.9	1691.2	1563.7	1529.4	1509.8
15°	4362.8	4009.9	3318.7	2691.2	2205.9	1828.5	1539.2	1397.1	1294.1	1259.8	1250.0
17.5°	4392.2	3985.3	3176.5	2470.6	1921.6	1544.1	1294.1	1176.5	1088.2	1053.9	1044.1
20°	4431.4	3951.0	3034.3	2259.8	1671.6	1318.6	1098.1	995.1	926.5	902.0	897.1
22.5°	4465.7	3926.5	2902.0	2049.0	1441.2	1137.3	951.0	867.7	818.6	794.1	794.1
25°	4554.0	3936.3	2789.2	1853.0	1269.6	995.1	838.2	774.5	735.3	720.6	720.6
27.5°	4656.9	3975.5	2701.0	1686.3	1122.6	887.3	759.8	705.9	686.3	666.7	671.6
30°	4804.0	4054.0	2642.2	1549.0	1014.7	803.9	696.1	656.9	637.3	632.4	632.4
32.5°	4990.3	4181.4	2637.3	1460.8	936.3	740.2	652.0	617.7	607.9	602.9	602.9
35°	5210.8	4294.2	2607.9	1421.6	887.3	696.1	617.7	593.1	588.2	588.2	588.2
37.5°	5475.6	4480.4	2588.3	1367.7	862.8	671.6	593.1	573.5	573.5	573.5	573.5
40°	5750.1	4632.4	2558.9	1318.6	853.0	656.9	578.4	553.9	553.9	553.9	553.9
42.5°	6078.5	4853.0	2549.0	1294.1	838.2	647.1	558.8	529.4	534.3	534.3	539.2
45°	6475.6	5103.0	2544.1	1269.6	833.3	637.3	539.2	504.9	509.8	504.9	504.9
47.5°	6877.5	5392.2	2558.9	1254.9	828.4	627.5	524.5	480.4	480.4	475.5	475.5
50°	7299.1	5656.9	2568.7	1240.2	818.6	607.9	500.0	460.8	451.0	441.2	446.1
52.5°	7696.2	5902.0	2573.6	1215.7	789.2	578.4	480.4	436.3	421.6	406.9	411.8
55°	8093.2	6137.3	2583.4	1186.3	750.0	549.0	455.9	411.8	392.2	372.6	372.6
57.5°	8451.1	6343.2	2558.9	1112.8	705.9	519.6	431.4	382.4	352.9	333.3	333.3
60°	8696.2	6490.3	2485.3	1004.9	647.1	485.3	406.9	352.9	318.6	303.9	303.9
62.5°	8813.8	6514.8	2353.0	828.4	573.5	451.0	377.5	323.5	294.1	284.3	284.3
65°	8701.1	6406.9	2147.1	622.6	495.1	411.8	348.0	299.0	269.6	245.1	245.1
67.5°	8308.9	6103.0	1862.8	470.6	421.6	372.6	318.6	274.5	240.2	220.6	220.6
70°	7519.7	5470.7	1441.2	377.5	357.8	323.5	289.2	245.1	215.7	191.2	191.2
72.5°	6485.4	4637.3	1014.7	303.9	303.9	274.5	245.1	215.7	186.3	166.7	166.7
75°	4975.5	3431.4	681.4	245.1	250.0	230.4	201.0	176.5	156.9	142.2	142.2
77.5°	2715.7	1696.1	416.7	181.4	186.3	176.5	156.9	142.2	132.4	117.6	117.6
80°	1318.6	745.1	240.2	127.5	132.4	127.5	117.6	102.9	102.9	93.1	93.1
82.5°	553.9	279.4	127.5	88.2	88.2	78.4	73.5	73.5	73.5	68.6	68.6
85°	137.3	53.9	53.9	49.0	49.0	49.0	44.1	44.1	44.1	34.3	39.2
87.5°	19.6	19.6	19.6	19.6	19.6	19.6	14.7	4.9	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)