

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: P841111

Luminaire Tested: **ARCH4-130-740-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841111
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: ARCH4-130-740-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1080mA 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: 16176 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 132
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



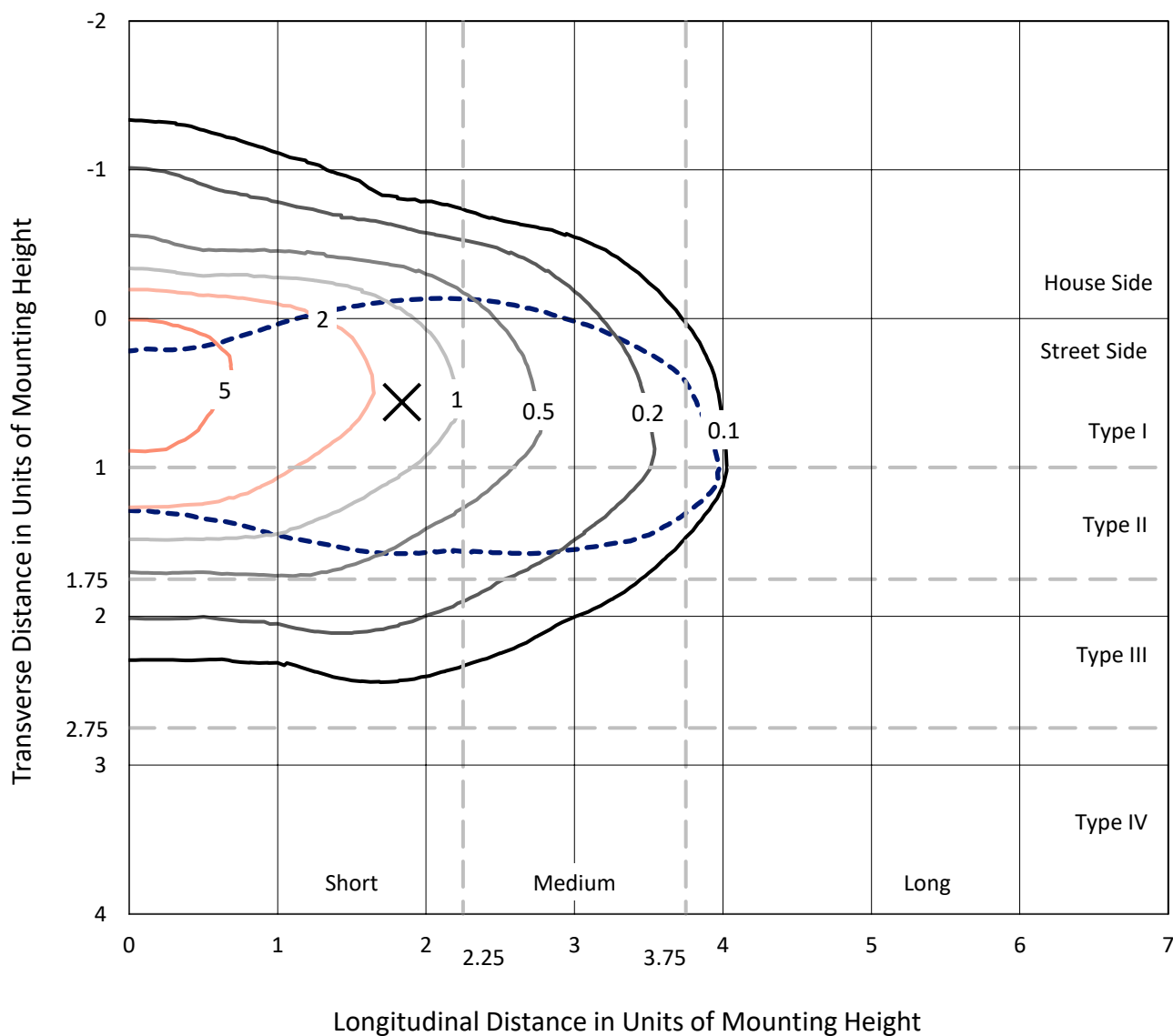
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

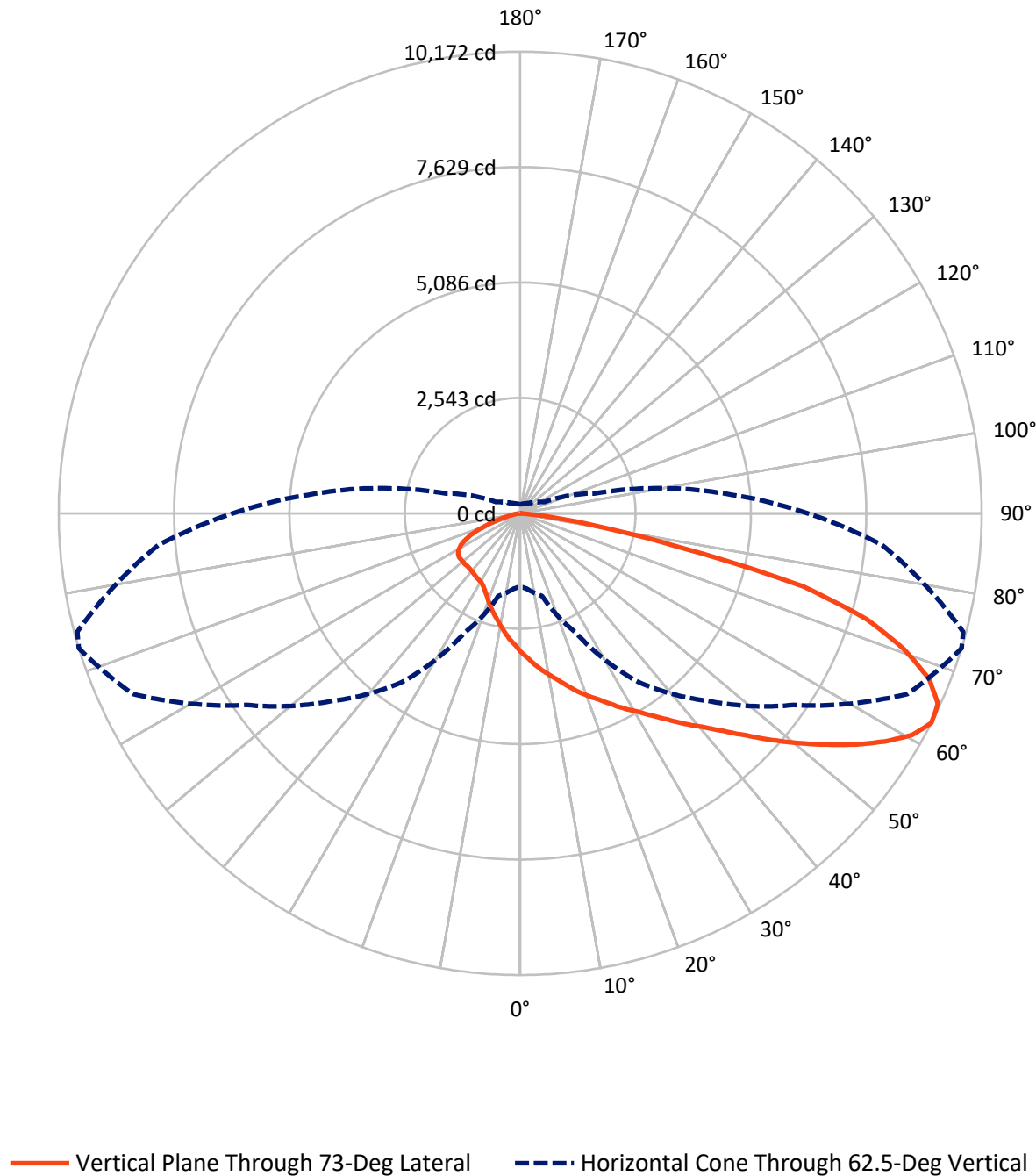


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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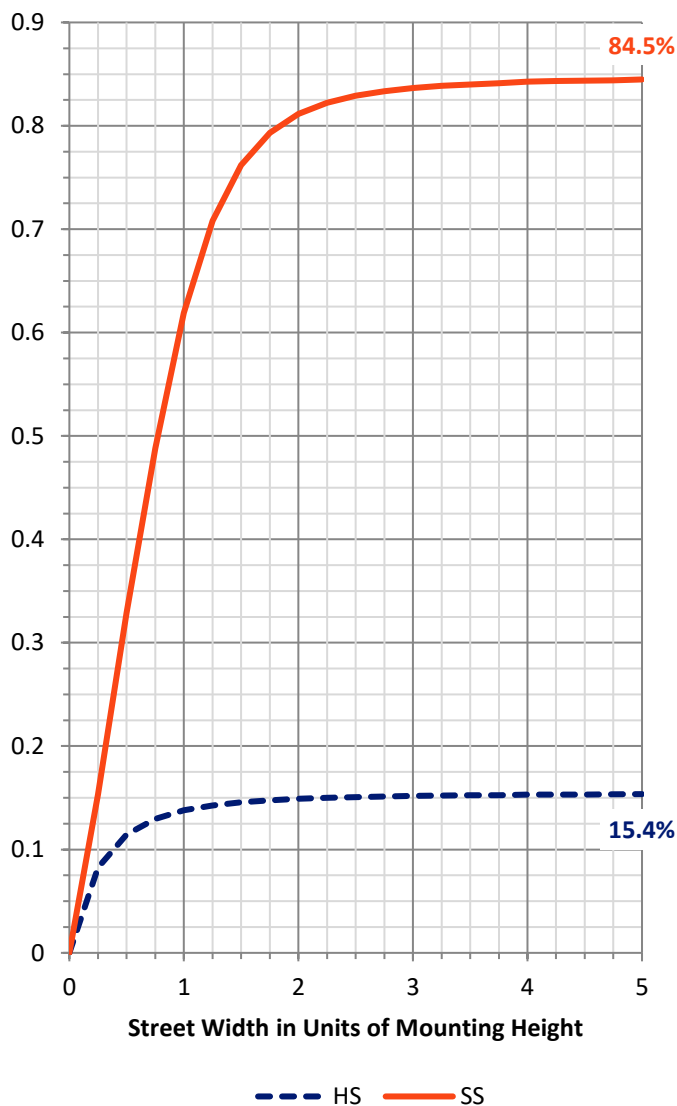
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2507.5	0.0	2507.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	13668.5	0.0	13668.5
	% Fixture	84.5	0.0	84.5
Total	Lumens	16176.0	0.0	16176.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.9	1.8
10°-20°	892.9	5.5
20°-30°	1486.2	9.2
30°-40°	2242.5	13.9
40°-50°	3134.4	19.4
50°-60°	3462.2	21.4
60°-70°	3016.0	18.6
70°-80°	1523.5	9.4
80°-90°	122.3	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°	16176.0	100.0
0°-180°	16176.0	100.0

Coefficient of Utilization



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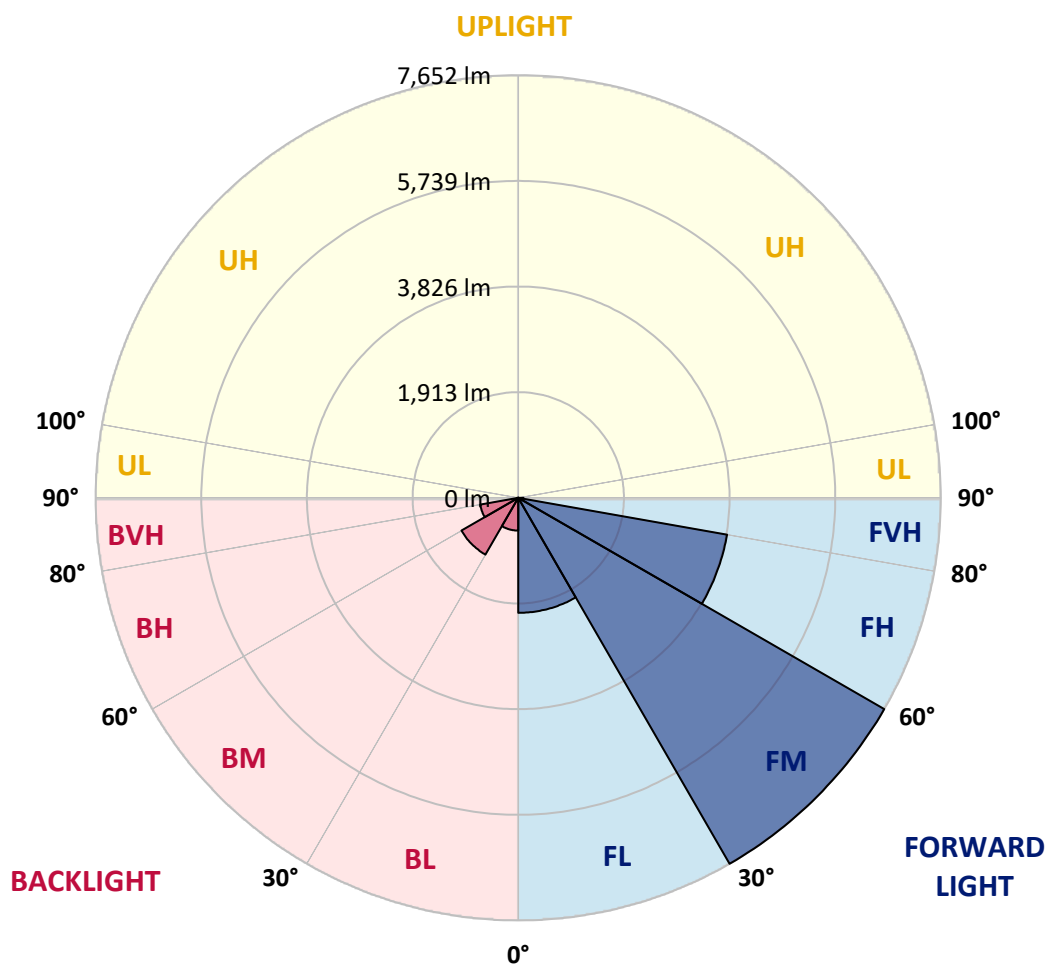
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2082.3	12.9			
FM	(30°-60°)	7651.8	47.3			
FH	(60°-80°)	3839.6	23.7			G2/5000
FVH	(80°-90°)	94.6	0.6			G1/100
BL	(0°-30°)	592.7	3.7	B2/1000		
BM	(30°-60°)	1187.3	7.3	B2/2500		
BH	(60°-80°)	699.9	4.3	B2/1000		G2/1000
BVH	(80°-90°)	27.6	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0
2.5°	3485.9	3524.7	3503.5	3517.6	3447.2	3401.3	3348.5	3246.2	3189.8	3182.8	3115.8
5°	3997.0	4039.3	4004.1	3993.5	3870.1	3764.4	3644.5	3464.8	3344.9	3323.8	3175.8
7.5°	4508.1	4546.9	4504.6	4472.8	4307.2	4120.4	3944.1	3679.8	3493.0	3457.7	3225.1
10°	4867.6	4902.9	4871.1	4839.4	4666.7	4476.4	4226.1	3880.7	3626.9	3570.5	3256.8
12.5°	5139.0	5160.2	5146.1	5117.9	4955.7	4751.3	4511.6	4106.3	3778.5	3708.0	3306.2
15°	5361.1	5396.3	5378.7	5357.5	5202.4	4998.0	4768.9	4342.4	3954.7	3866.6	3380.2
17.5°	5509.1	5533.8	5537.3	5537.3	5399.8	5198.9	4976.9	4557.4	4130.9	4018.2	3450.7
20°	5576.1	5604.3	5621.9	5650.1	5537.3	5364.6	5139.0	4740.7	4296.6	4169.7	3517.6
22.5°	5607.8	5632.5	5678.3	5741.7	5650.1	5505.6	5297.6	4909.9	4462.3	4328.3	3595.2
25°	5632.5	5664.2	5731.2	5851.0	5787.5	5664.2	5484.4	5103.8	4659.6	4522.2	3708.0
27.5°	5699.4	5738.2	5801.6	5946.2	5868.6	5808.7	5681.8	5311.7	4867.6	4726.6	3845.4
30°	5932.1	5963.8	5960.3	6051.9	5956.7	5939.1	5851.0	5512.6	5068.5	4927.5	4007.6
32.5°	6355.0	6386.7	6309.2	6274.0	6066.0	6069.5	6034.3	5727.6	5308.2	5163.7	4194.4
35°	6809.7	6845.0	6742.7	6682.8	6333.9	6231.7	6249.3	5995.5	5576.1	5431.6	4427.0
37.5°	7215.1	7257.3	7169.2	7081.1	6728.6	6492.5	6489.0	6295.1	5882.7	5734.7	4684.3
40°	7437.1	7486.5	7539.3	7490.0	7119.9	6859.1	6746.3	6601.8	6185.8	6034.3	4962.8
42.5°	7542.8	7680.3	7775.5	7743.8	7440.6	7176.3	7042.3	6922.5	6555.9	6407.9	5294.1
45°	7246.8	7250.3	7451.2	7623.9	7567.5	7391.3	7366.6	7282.0	6978.9	6837.9	5667.7
47.5°	6876.7	6848.5	6989.5	7296.1	7454.7	7500.6	7645.1	7680.3	7461.8	7320.8	6048.4
50°	5988.5	6006.1	6464.3	6904.9	7215.1	7511.1	7842.4	8089.2	7958.8	7824.8	6450.2
52.5°	4871.1	4913.4	5438.6	6407.9	6897.8	7405.4	7958.8	8498.0	8466.3	8339.4	6852.0
55°	3905.4	3972.3	4529.2	5579.6	6492.5	7169.2	8008.1	8871.7	8991.5	8875.2	7246.8
57.5°	2985.4	3055.9	3524.7	4603.3	5974.4	6785.0	7972.9	9199.5	9481.4	9407.4	7609.8
60°	2248.8	2319.2	2618.8	3732.7	5325.8	6355.0	7796.6	9414.5	9922.0	9844.5	7874.2
62.5°	1610.8	1667.2	1889.2	2904.3	4536.3	5843.9	7363.1	9418.0	10172.3	10108.8	8001.1
65°	1159.6	1159.6	1339.4	2072.5	3796.1	5230.6	6707.5	8984.4	10119.4	10101.8	7912.9
67.5°	835.4	842.4	986.9	1448.6	3027.7	4486.9	5858.0	8212.5	9710.5	9798.7	7595.7
70°	592.1	609.8	676.7	1011.6	2287.5	3542.3	4948.7	7201.0	8973.9	9129.0	6982.4
72.5°	458.2	468.8	514.6	704.9	1670.7	2632.9	3944.1	6073.0	7990.5	8166.7	6147.1
75°	352.5	363.0	398.3	518.1	1198.4	1846.9	2802.1	4712.5	6443.1	6756.8	4938.1
77.5°	257.3	271.4	296.1	377.1	697.9	1173.7	1698.9	2650.6	3556.4	3704.5	2587.1
80°	119.8	137.5	172.7	243.2	377.1	553.4	602.7	1022.2	1709.5	1787.0	1402.8
82.5°	67.0	84.6	98.7	148.0	190.3	197.4	204.4	257.3	645.0	712.0	588.6
85°	31.7	42.3	45.8	63.4	63.4	56.4	67.0	49.3	105.7	126.9	123.4
87.5°	0.0	3.5	7.0	17.6	14.1	10.6	10.6	10.6	10.6	14.1	10.6
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°	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0
2.5°	3084.1	3038.3	2932.5	2840.9	2781.0	2728.1	2657.6	2625.9	2569.5	2580.1	2548.4
5°	3101.7	3017.1	2830.3	2657.6	2530.7	2417.9	2294.6	2224.1	2146.5	2139.5	2114.8
7.5°	3112.3	2981.9	2714.0	2470.8	2277.0	2104.2	1938.6	1846.9	1751.8	1730.6	1709.5
10°	3101.7	2929.0	2594.2	2277.0	2019.7	1804.6	1617.8	1501.5	1402.8	1378.2	1357.0
12.5°	3112.3	2900.8	2481.4	2097.2	1790.5	1547.3	1335.9	1216.0	1124.4	1099.7	1085.6
15°	3137.0	2883.2	2386.2	1935.1	1586.1	1314.7	1106.8	1004.5	930.5	905.8	898.8
17.5°	3158.1	2865.6	2284.0	1776.4	1381.7	1110.3	930.5	845.9	782.5	757.8	750.8
20°	3186.3	2840.9	2181.8	1624.9	1201.9	948.1	789.5	715.5	666.2	648.5	645.0
22.5°	3211.0	2823.3	2086.6	1473.3	1036.3	817.7	683.8	623.9	588.6	571.0	571.0
25°	3274.4	2830.3	2005.6	1332.3	912.9	715.5	602.7	556.9	528.7	518.1	518.1
27.5°	3348.5	2858.5	1942.1	1212.5	807.2	638.0	546.3	507.6	493.5	479.4	482.9
30°	3454.2	2914.9	1899.8	1113.8	729.6	578.0	500.5	472.3	458.2	454.7	454.7
32.5°	3588.1	3006.6	1896.3	1050.4	673.2	532.2	468.8	444.1	437.1	433.5	433.5
35°	3746.8	3087.6	1875.1	1022.2	638.0	500.5	444.1	426.5	423.0	423.0	423.0
37.5°	3937.1	3221.6	1861.0	983.4	620.3	482.9	426.5	412.4	412.4	412.4	412.4
40°	4134.5	3330.8	1839.9	948.1	613.3	472.3	415.9	398.3	398.3	398.3	398.3
42.5°	4370.6	3489.4	1832.8	930.5	602.7	465.3	401.8	380.7	384.2	384.2	387.7
45°	4656.1	3669.2	1829.3	912.9	599.2	458.2	387.7	363.0	366.6	363.0	363.0
47.5°	4945.1	3877.2	1839.9	902.3	595.7	451.2	377.1	345.4	345.4	341.9	341.9
50°	5248.3	4067.5	1846.9	891.7	588.6	437.1	359.5	331.3	324.3	317.2	320.7
52.5°	5533.8	4243.7	1850.5	874.1	567.5	415.9	345.4	313.7	303.1	292.5	296.1
55°	5819.3	4412.9	1857.5	853.0	539.3	394.8	327.8	296.1	282.0	267.9	267.9
57.5°	6076.6	4561.0	1839.9	800.1	507.6	373.6	310.2	274.9	253.8	239.7	239.7
60°	6252.8	4666.7	1787.0	722.6	465.3	348.9	292.5	253.8	229.1	218.5	218.5
62.5°	6337.4	4684.3	1691.9	595.7	412.4	324.3	271.4	232.6	211.5	204.4	204.4
65°	6256.3	4606.8	1543.8	447.6	356.0	296.1	250.3	215.0	193.9	176.2	176.2
67.5°	5974.4	4388.2	1339.4	338.4	303.1	267.9	229.1	197.4	172.7	158.6	158.6
70°	5406.9	3933.6	1036.3	271.4	257.3	232.6	208.0	176.2	155.1	137.5	137.5
72.5°	4663.2	3334.4	729.6	218.5	218.5	197.4	176.2	155.1	133.9	119.8	119.8
75°	3577.6	2467.3	489.9	176.2	179.8	165.7	144.5	126.9	112.8	102.2	102.2
77.5°	1952.7	1219.5	299.6	130.4	133.9	126.9	112.8	102.2	95.2	84.6	84.6
80°	948.1	535.8	172.7	91.6	95.2	91.6	84.6	74.0	74.0	67.0	67.0
82.5°	398.3	200.9	91.6	63.4	63.4	56.4	52.9	52.9	52.9	49.3	49.3
85°	98.7	38.8	38.8	35.2	35.2	35.2	31.7	31.7	31.7	24.7	28.2
87.5°	14.1	14.1	14.1	14.1	14.1	14.1	10.6	3.5	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)