

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: P840940

Luminaire Tested: **ARCH4-110-727-U-T2U-HSS**

Issue Date: 5/27/2024

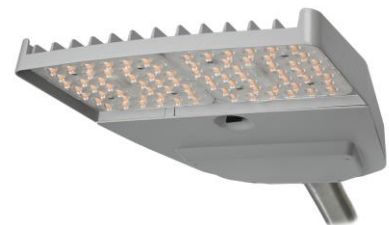
Test Information

Test Method: LM-79-08
Report Number: P840940
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: ARCH4-110-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 920mA 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: 12878 lumens
Efficiency: N/A
Efficacy: 114.4 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

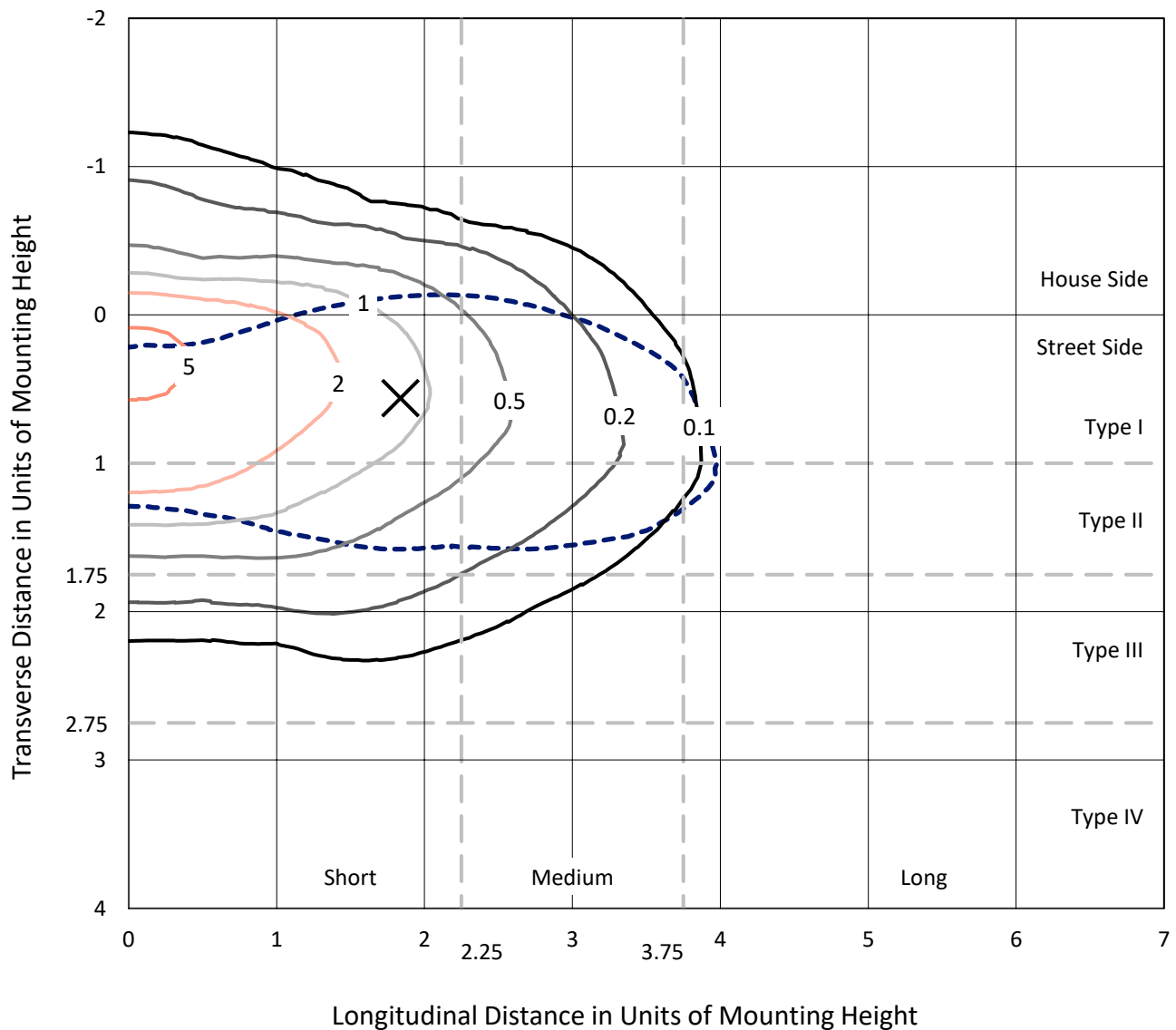
Input Watts (W): 112.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

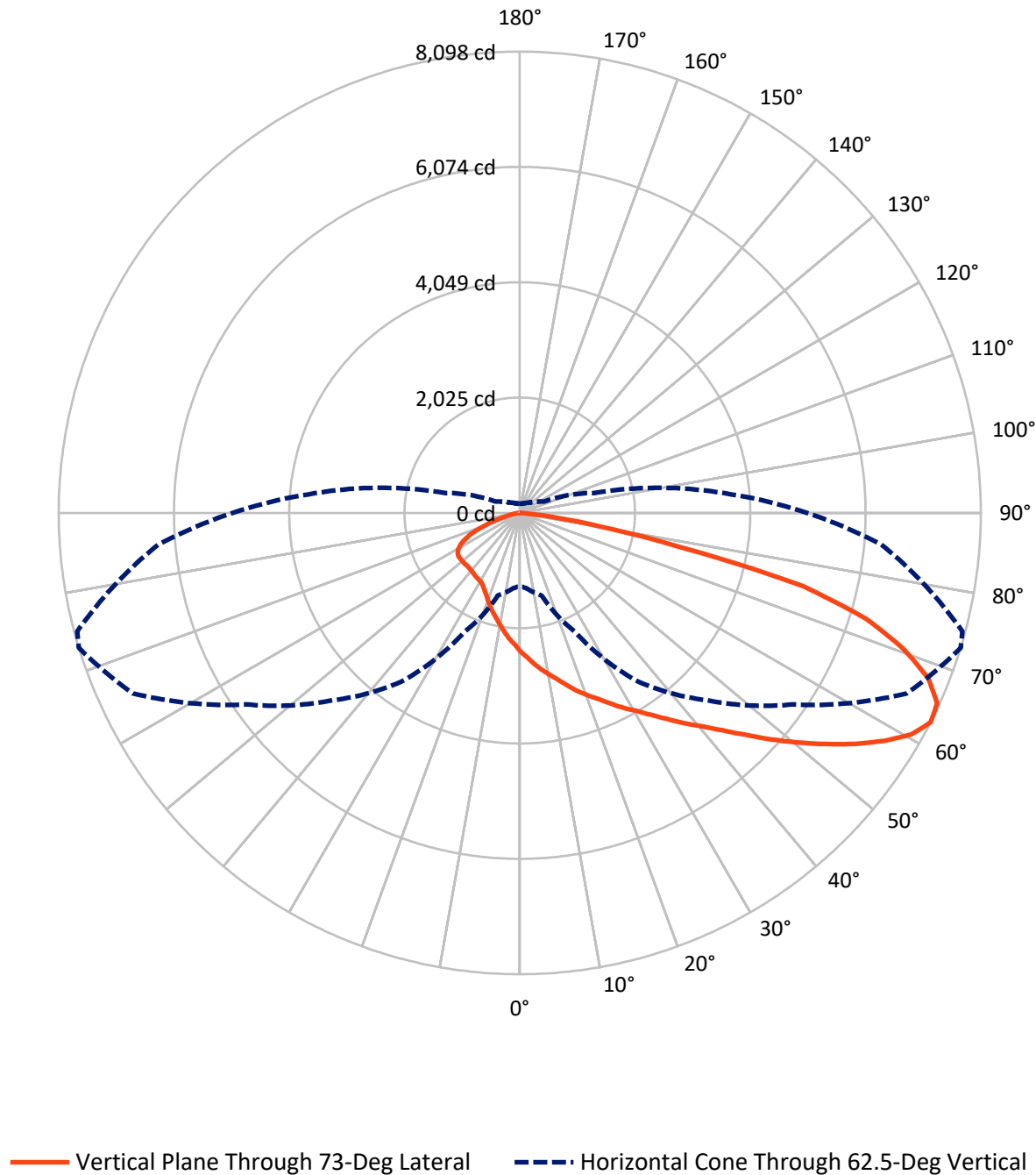
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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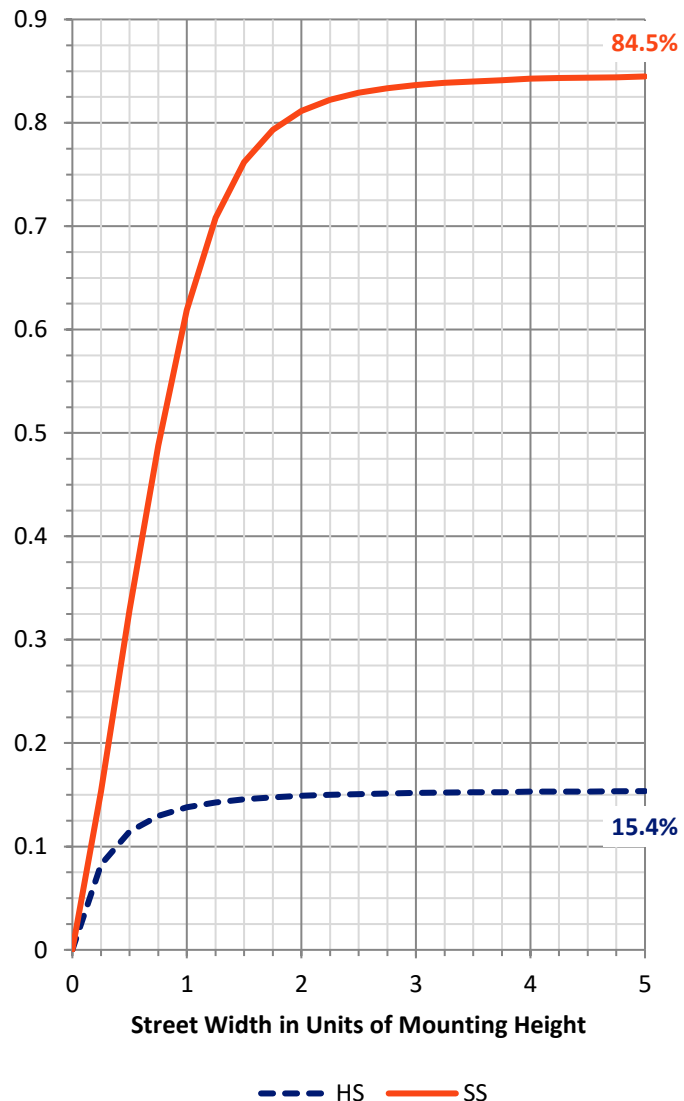
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1996.3	0.0	1996.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	10881.7	0.0	10881.7
	% Fixture	84.5	0.0	84.5
Total	Lumens	12878.0	0.0	12878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.6	1.8
10°-20°	710.8	5.5
20°-30°	1183.2	9.2
30°-40°	1785.3	13.9
40°-50°	2495.4	19.4
50°-60°	2756.3	21.4
60°-70°	2401.1	18.6
70°-80°	1212.9	9.4
80°-90°	97.4	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°	12878.0	100.0
0°-180°	12878.0	100.0

Coefficient of Utilization



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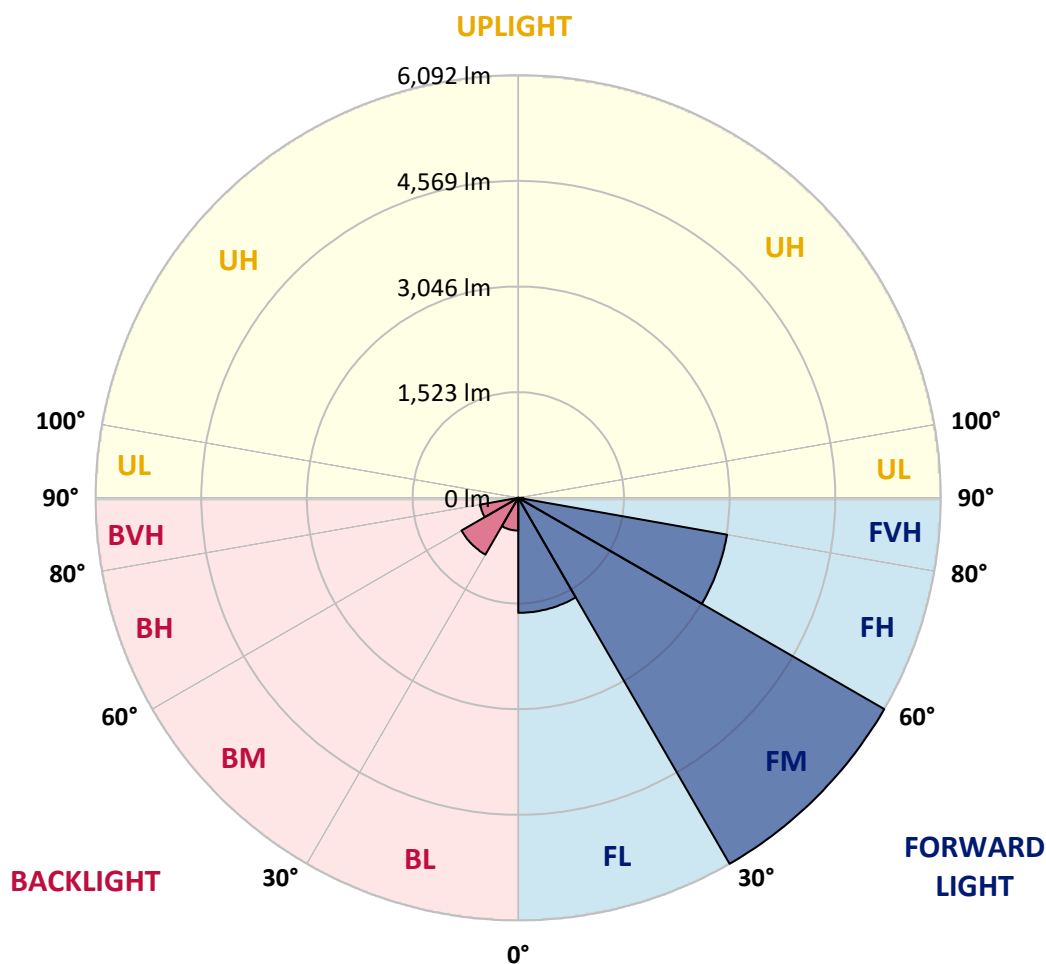
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1657.8	12.9			
FM	(30°-60°)	6091.8	47.3			
FH	(60°-80°)	3056.8	23.7			G2/5000
FVH	(80°-90°)	75.3	0.6			G1/100
BL	(0°-30°)	471.8	3.7	B1/500		
BM	(30°-60°)	945.2	7.3	B1/1000		
BH	(60°-80°)	557.2	4.3	B2/1000		G2/1000
BVH	(80°-90°)	22.0	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°	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5
2.5°	2775.2	2806.1	2789.2	2800.5	2744.3	2707.9	2665.8	2584.4	2539.5	2533.9	2480.6
5°	3182.1	3215.8	3187.7	3179.3	3081.1	2996.9	2901.5	2758.4	2663.0	2646.1	2528.3
7.5°	3589.0	3619.8	3586.2	3560.9	3429.0	3280.3	3140.0	2929.5	2780.8	2752.8	2567.6
10°	3875.2	3903.2	3878.0	3852.7	3715.2	3563.7	3364.5	3089.5	2887.4	2842.6	2592.8
12.5°	4091.3	4108.1	4096.9	4074.4	3945.3	3782.6	3591.8	3269.1	3008.1	2952.0	2632.1
15°	4268.0	4296.1	4282.1	4265.2	4141.8	3979.0	3796.6	3457.1	3148.4	3078.3	2691.0
17.5°	4385.9	4405.5	4408.3	4408.3	4298.9	4139.0	3962.2	3628.3	3288.7	3198.9	2747.1
20°	4439.2	4461.7	4475.7	4498.1	4408.3	4270.8	4091.3	3774.2	3420.6	3319.6	2800.5
22.5°	4464.5	4484.1	4520.6	4571.1	4498.1	4383.1	4217.5	3908.9	3552.5	3445.9	2862.2
25°	4484.1	4509.4	4562.7	4658.1	4607.6	4509.4	4366.2	4063.2	3709.6	3600.2	2952.0
27.5°	4537.4	4568.3	4618.8	4733.8	4672.1	4624.4	4523.4	4228.8	3875.2	3762.9	3061.4
30°	4722.6	4747.9	4745.1	4818.0	4742.3	4728.2	4658.1	4388.7	4035.1	3922.9	3190.5
32.5°	5059.3	5084.6	5022.9	4994.8	4829.2	4832.1	4804.0	4559.9	4225.9	4110.9	3339.2
35°	5421.3	5449.4	5368.0	5320.3	5042.5	4961.1	4975.2	4773.1	4439.2	4324.2	3524.4
37.5°	5744.0	5777.7	5707.6	5637.4	5356.8	5168.8	5166.0	5011.6	4683.3	4565.5	3729.3
40°	5920.8	5960.1	6002.2	5962.9	5668.3	5460.6	5370.8	5255.8	4924.7	4804.0	3950.9
42.5°	6005.0	6114.4	6190.2	6164.9	5923.6	5713.2	5606.5	5511.1	5219.3	5101.4	4214.7
45°	5769.3	5772.1	5932.0	6069.5	6024.6	5884.3	5864.7	5797.3	5556.0	5443.8	4512.2
47.5°	5474.6	5452.2	5564.4	5808.6	5934.8	5971.3	6086.4	6114.4	5940.5	5828.2	4815.2
50°	4767.5	4781.5	5146.3	5497.1	5744.0	5979.7	6243.5	6439.9	6336.1	6229.5	5135.1
52.5°	3878.0	3911.7	4329.8	5101.4	5491.5	5895.6	6336.1	6765.4	6740.2	6639.2	5455.0
55°	3109.1	3162.4	3605.8	4442.0	5168.8	5707.6	6375.4	7062.9	7158.3	7065.7	5769.3
57.5°	2376.7	2432.9	2806.1	3664.7	4756.3	5401.7	6347.3	7323.8	7548.3	7489.4	6058.3
60°	1790.3	1846.4	2084.9	2971.6	4240.0	5059.3	6207.0	7495.0	7899.1	7837.4	6268.8
62.5°	1282.4	1327.3	1504.1	2312.2	3611.4	4652.5	5861.9	7497.8	8098.3	8047.8	6369.8
65°	923.2	923.2	1066.3	1650.0	3022.1	4164.2	5340.0	7152.7	8056.2	8042.2	6299.6
67.5°	665.0	670.7	785.7	1153.3	2410.4	3572.1	4663.7	6538.1	7730.7	7800.9	6047.1
70°	471.4	485.5	538.8	805.3	1821.1	2820.1	3939.7	5732.8	7144.3	7267.7	5558.8
72.5°	364.8	373.2	409.7	561.2	1330.1	2096.1	3140.0	4834.9	6361.4	6501.7	4893.8
75°	280.6	289.0	317.1	412.5	954.1	1470.4	2230.8	3751.7	5129.5	5379.2	3931.3
77.5°	204.8	216.1	235.7	300.2	555.6	934.4	1352.5	2110.2	2831.3	2949.2	2059.7
80°	95.4	109.4	137.5	193.6	300.2	440.6	479.8	813.8	1360.9	1422.7	1116.8
82.5°	53.3	67.3	78.6	117.9	151.5	157.1	162.8	204.8	513.5	566.8	468.6
85°	25.3	33.7	36.5	50.5	50.5	44.9	53.3	39.3	84.2	101.0	98.2
87.5°	0.0	2.8	5.6	14.0	11.2	8.4	8.4	8.4	8.4	11.2	8.4
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°	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5
2.5°	2455.3	2418.8	2334.7	2261.7	2214.0	2171.9	2115.8	2090.5	2045.6	2054.0	2028.8
5°	2469.3	2402.0	2253.3	2115.8	2014.8	1925.0	1826.8	1770.6	1708.9	1703.3	1683.6
7.5°	2477.8	2373.9	2160.7	1967.1	1812.7	1675.2	1543.3	1470.4	1394.6	1377.8	1360.9
10°	2469.3	2331.8	2065.3	1812.7	1607.9	1436.7	1288.0	1195.4	1116.8	1097.2	1080.3
12.5°	2477.8	2309.4	1975.5	1669.6	1425.5	1231.9	1063.5	968.1	895.1	875.5	864.3
15°	2497.4	2295.4	1899.7	1540.5	1262.7	1046.7	881.1	799.7	740.8	721.2	715.5
17.5°	2514.2	2281.3	1818.3	1414.3	1100.0	883.9	740.8	673.5	622.9	603.3	597.7
20°	2536.7	2261.7	1737.0	1293.6	956.9	754.8	628.6	569.6	530.3	516.3	513.5
22.5°	2556.3	2247.7	1661.2	1172.9	825.0	651.0	544.4	496.7	468.6	454.6	454.6
25°	2606.8	2253.3	1596.7	1060.7	726.8	569.6	479.8	443.4	420.9	412.5	412.5
27.5°	2665.8	2275.7	1546.1	965.3	642.6	507.9	434.9	404.1	392.9	381.6	384.4
30°	2750.0	2320.6	1512.5	886.7	580.9	460.2	398.5	376.0	364.8	362.0	362.0
32.5°	2856.6	2393.6	1509.7	836.2	536.0	423.7	373.2	353.6	348.0	345.1	345.1
35°	2982.9	2458.1	1492.8	813.8	507.9	398.5	353.6	339.5	336.7	336.7	336.7
37.5°	3134.4	2564.7	1481.6	782.9	493.9	384.4	339.5	328.3	328.3	328.3	328.3
40°	3291.5	2651.7	1464.8	754.8	488.3	376.0	331.1	317.1	317.1	317.1	317.1
42.5°	3479.5	2778.0	1459.2	740.8	479.8	370.4	319.9	303.1	305.9	305.9	308.7
45°	3706.8	2921.1	1456.4	726.8	477.0	364.8	308.7	289.0	291.8	289.0	289.0
47.5°	3936.9	3086.7	1464.8	718.4	474.2	359.2	300.2	275.0	275.0	272.2	272.2
50°	4178.2	3238.2	1470.4	709.9	468.6	348.0	286.2	263.8	258.2	252.5	255.4
52.5°	4405.5	3378.5	1473.2	695.9	451.8	331.1	275.0	249.7	241.3	232.9	235.7
55°	4632.8	3513.2	1478.8	679.1	429.3	314.3	261.0	235.7	224.5	213.3	213.3
57.5°	4837.7	3631.1	1464.8	637.0	404.1	297.4	246.9	218.9	202.0	190.8	190.8
60°	4978.0	3715.2	1422.7	575.2	370.4	277.8	232.9	202.0	182.4	174.0	174.0
62.5°	5045.3	3729.3	1346.9	474.2	328.3	258.2	216.1	185.2	168.4	162.8	162.8
65°	4980.8	3667.5	1229.1	356.4	283.4	235.7	199.2	171.2	154.3	140.3	140.3
67.5°	4756.3	3493.6	1066.3	269.4	241.3	213.3	182.4	157.1	137.5	126.3	126.3
70°	4304.5	3131.6	825.0	216.1	204.8	185.2	165.6	140.3	123.5	109.4	109.4
72.5°	3712.4	2654.5	580.9	174.0	174.0	157.1	140.3	123.5	106.6	95.4	95.4
75°	2848.2	1964.3	390.0	140.3	143.1	131.9	115.0	101.0	89.8	81.4	81.4
77.5°	1554.6	970.9	238.5	103.8	106.6	101.0	89.8	81.4	75.8	67.3	67.3
80°	754.8	426.5	137.5	73.0	75.8	73.0	67.3	58.9	58.9	53.3	53.3
82.5°	317.1	159.9	73.0	50.5	50.5	44.9	42.1	42.1	42.1	39.3	39.3
85°	78.6	30.9	30.9	28.1	28.1	28.1	25.3	25.3	25.3	19.6	22.4
87.5°	11.2	11.2	11.2	11.2	11.2	11.2	8.4	2.8	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)