

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: P841079

Luminaire Tested: **ARCH4-130-722-U-T4W-HSS**

Issue Date: 5/27/2024

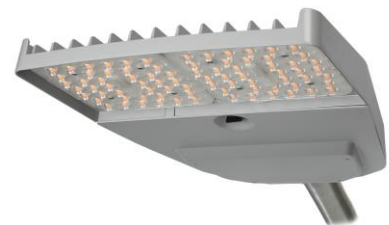
Test Information

Test Method: LM-79-08
Report Number: P841079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

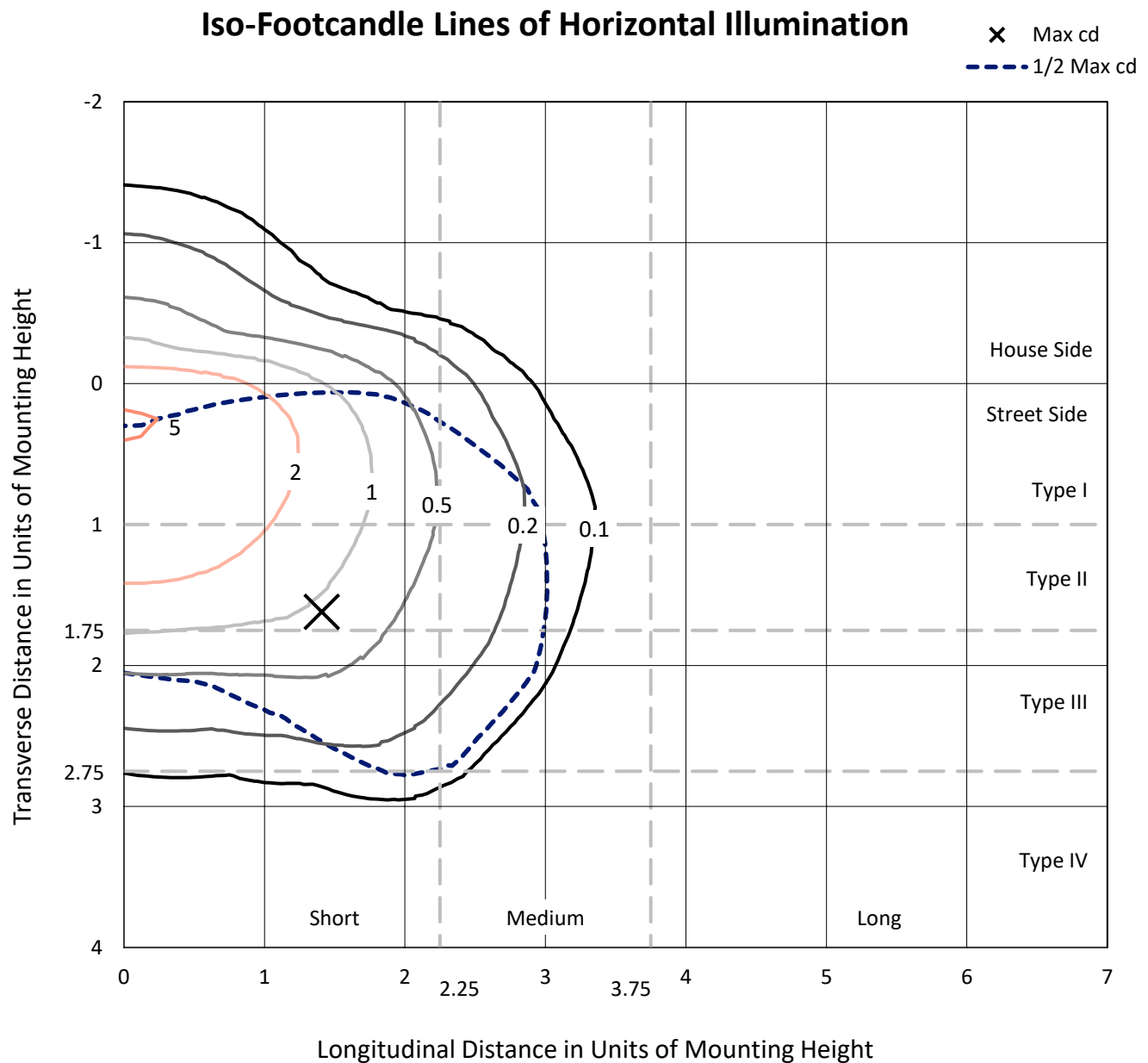
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13326 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - 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



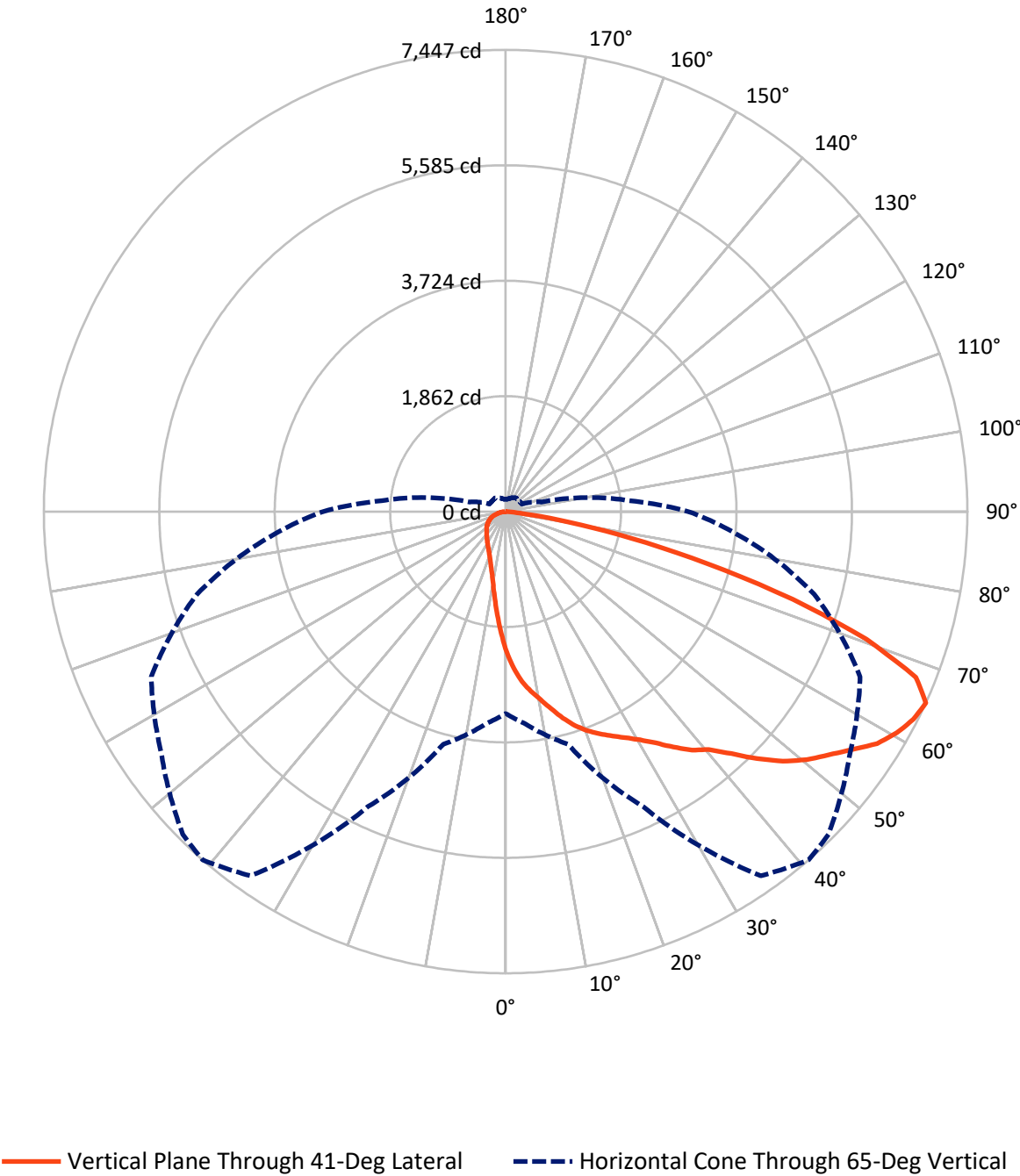
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Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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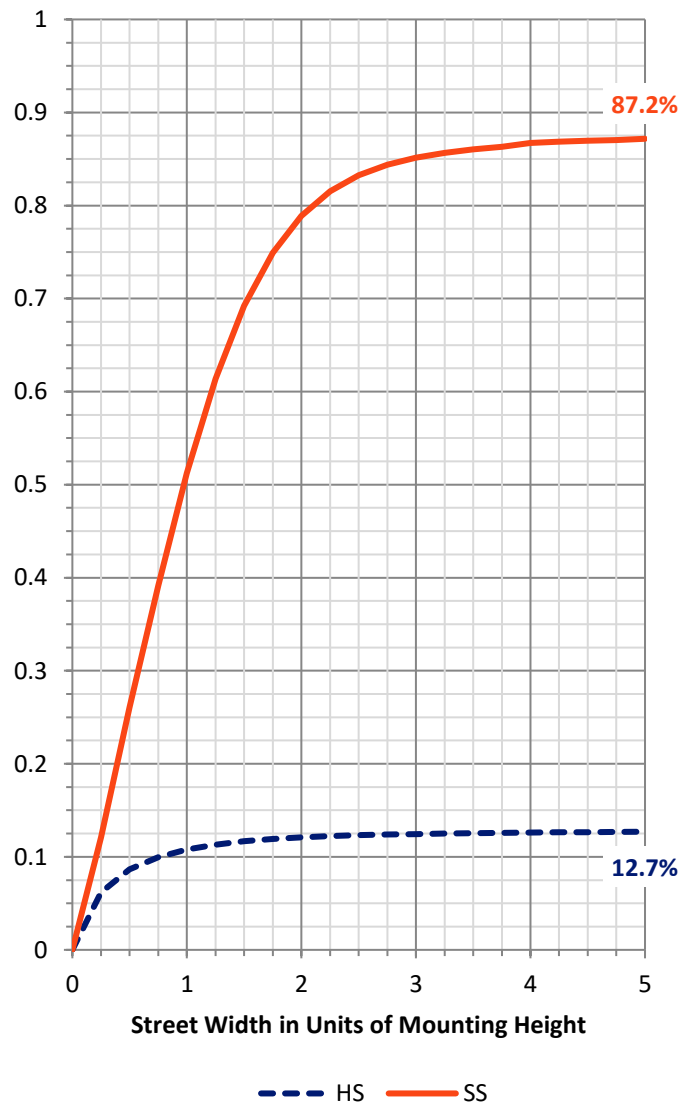
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1710.9	0.0	1710.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	11615.2	0.0	11615.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	13326.0	0.0	13326.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.6	1.6
10°-20°	634.4	4.8
20°-30°	1091.4	8.2
30°-40°	1655.3	12.4
40°-50°	2425.0	18.2
50°-60°	3062.3	23.0
60°-70°	2871.5	21.5
70°-80°	1279.8	9.6
80°-90°	94.8	0.7
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°	13326.0	100.0
0°-180°	13326.0	100.0

Coefficient of Utilization



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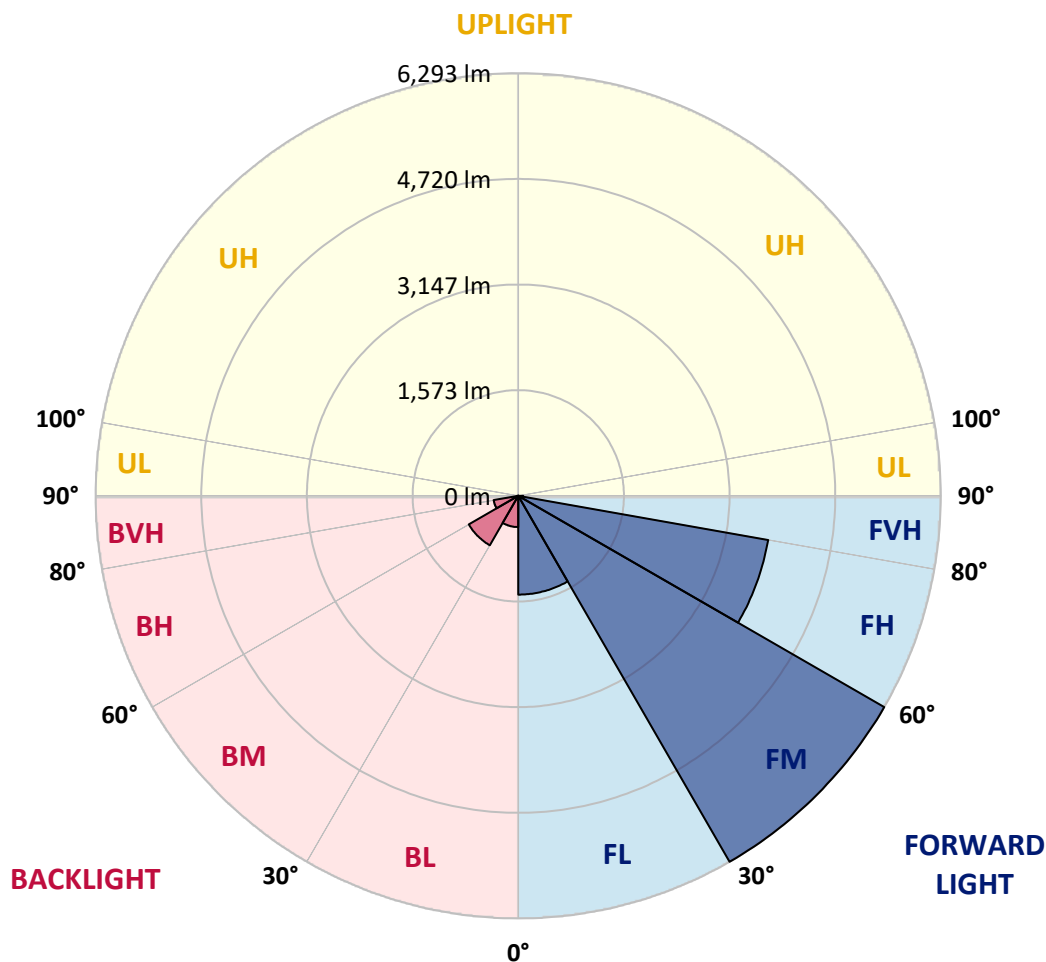
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1471.7	11.0			
FM	(30°-60°)	6293.1	47.2			
FH	(60°-80°)	3779.6	28.4			G2/5000
FVH	(80°-90°)	70.8	0.5			G1/100
BL	(0°-30°)	465.7	3.5	B1/500		
BM	(30°-60°)	849.5	6.4	B1/1000		
BH	(60°-80°)	371.6	2.8	B1/500		G1/500
BVH	(80°-90°)	24.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7
2.5°	2619.2	2610.7	2605.1	2574.2	2574.2	2532.0	2534.8	2495.5	2447.7	2371.8	2290.4
5°	2866.5	2855.2	2841.2	2810.2	2799.0	2756.9	2751.2	2695.0	2613.5	2481.4	2335.3
7.5°	3082.8	3071.6	3051.9	3007.0	2976.1	2925.5	2911.4	2838.4	2748.4	2585.4	2380.3
10°	3279.6	3271.1	3245.8	3189.6	3147.5	3085.7	3060.4	2962.0	2849.6	2669.7	2416.8
12.5°	3479.1	3467.8	3434.1	3386.3	3335.8	3262.7	3231.8	3105.3	2962.0	2762.5	2470.2
15°	3664.6	3647.7	3622.4	3571.8	3526.9	3456.6	3422.9	3273.9	3099.7	2866.5	2540.5
17.5°	3785.4	3771.4	3748.9	3720.8	3684.2	3630.8	3597.1	3451.0	3237.4	2967.6	2613.5
20°	3858.5	3852.9	3844.4	3827.6	3810.7	3774.2	3748.9	3611.2	3386.3	3066.0	2683.8
22.5°	3914.7	3909.1	3906.2	3906.2	3909.1	3895.0	3878.1	3760.1	3529.7	3170.0	2748.4
25°	4001.8	3999.0	3993.4	3987.7	4007.4	4010.2	4004.6	3923.1	3709.5	3307.7	2829.9
27.5°	4122.6	4114.2	4103.0	4097.3	4117.0	4131.1	4142.3	4086.1	3900.6	3448.2	2922.7
30°	4308.1	4282.8	4254.7	4235.0	4249.1	4271.6	4296.9	4263.1	4097.3	3622.4	3018.2
32.5°	4527.3	4496.4	4431.8	4395.2	4431.8	4448.6	4468.3	4451.4	4302.5	3810.7	3113.8
35°	4794.3	4757.8	4690.3	4636.9	4701.5	4665.0	4656.6	4639.7	4496.4	3996.2	3220.5
37.5°	5238.3	5184.9	5078.1	4960.1	4960.1	4881.4	4850.5	4799.9	4670.6	4162.0	3324.5
40°	5752.6	5682.3	5544.6	5370.4	5210.2	5047.2	5027.5	4991.0	4875.8	4353.1	3442.6
42.5°	6317.4	6182.5	5991.4	5780.7	5522.1	5336.7	5291.7	5187.7	5075.3	4547.0	3560.6
45°	6944.1	6663.1	6384.9	6278.1	5850.9	5682.3	5598.0	5409.7	5283.3	4749.3	3684.2
47.5°	7045.3	6826.1	6640.6	6623.8	6157.3	6016.7	5921.2	5651.4	5508.1	4965.7	3813.5
50°	6989.1	6857.0	6876.7	6809.2	6382.1	6289.3	6216.3	5910.0	5730.1	5173.7	3931.5
52.5°	6753.0	6826.1	6938.5	6814.9	6595.7	6519.8	6483.2	6188.2	5938.1	5364.8	4038.3
55°	6472.0	6522.6	6764.3	6916.0	6843.0	6775.5	6741.8	6511.3	6143.2	5524.9	4136.7
57.5°	6061.7	6039.2	6306.2	6899.2	7101.5	7062.2	7025.6	6828.9	6334.3	5640.2	4198.5
60°	5446.3	5398.5	5735.7	6561.9	7185.8	7247.6	7230.8	7039.7	6480.4	5637.4	4173.2
62.5°	4381.2	4499.2	4965.7	6011.1	7222.3	7379.7	7348.8	7056.5	6528.2	5474.4	4013.0
65°	3257.1	3425.7	3883.8	5252.4	7171.8	7447.2	7362.9	6781.1	6306.2	5151.2	3661.8
67.5°	2346.6	2495.5	2829.9	4322.2	6685.6	7138.0	7039.7	6331.5	5794.7	4693.1	3175.6
70°	1604.7	1711.4	1939.1	3147.5	5707.6	6171.3	6109.5	5659.8	4988.2	4147.9	2579.8
72.5°	1132.5	1177.5	1323.6	2076.8	4336.2	4842.1	4769.0	4656.6	4007.4	3448.2	2006.5
75°	848.7	876.8	955.5	1343.3	2925.5	3355.4	3288.0	3352.6	2992.9	2610.7	1461.3
77.5°	320.4	348.5	542.4	857.1	1731.1	2059.9	1992.5	2031.8	1663.7	1318.0	727.9
80°	87.1	92.7	179.9	407.5	786.9	1025.7	933.0	800.9	618.3	607.0	385.0
82.5°	36.5	42.2	81.5	219.2	281.0	281.0	236.1	292.3	236.1	283.8	185.5
85°	14.1	16.9	19.7	56.2	36.5	39.3	42.2	56.2	47.8	59.0	42.2
87.5°	0.0	0.0	0.0	2.8	2.8	5.6	2.8	5.6	8.4	8.4	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°	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7
2.5°	2256.6	2225.7	2180.8	2107.7	2031.8	1989.7	1936.3	1927.8	1871.6	1866.0	1843.5
5°	2270.7	2206.0	2090.8	1950.3	1812.6	1705.8	1627.1	1585.0	1503.5	1503.5	1481.0
7.5°	2281.9	2180.8	1995.3	1787.3	1599.0	1455.7	1348.9	1304.0	1230.9	1225.3	1208.4
10°	2284.7	2149.8	1891.3	1621.5	1391.1	1244.9	1141.0	1090.4	1025.7	1020.1	1008.9
12.5°	2307.2	2133.0	1798.6	1478.2	1242.1	1084.8	983.6	941.4	890.8	885.2	874.0
15°	2343.7	2133.0	1719.9	1357.3	1110.0	963.9	876.8	837.5	800.9	795.3	789.7
17.5°	2380.3	2127.4	1641.2	1244.9	1000.4	868.4	792.5	761.6	733.5	730.7	725.0
20°	2414.0	2124.5	1562.5	1149.4	916.1	789.7	730.7	702.6	680.1	680.1	677.3
22.5°	2447.7	2118.9	1486.6	1059.5	843.1	730.7	680.1	649.2	632.3	632.3	629.5
25°	2498.3	2118.9	1416.4	983.6	784.1	685.7	635.1	612.6	598.6	595.8	595.8
27.5°	2557.3	2135.8	1354.5	916.1	733.5	640.7	601.4	578.9	562.0	556.4	559.2
30°	2622.0	2149.8	1298.3	857.1	685.7	607.0	564.9	542.4	525.5	519.9	522.7
32.5°	2686.6	2166.7	1247.8	803.7	637.9	576.1	533.9	508.7	491.8	489.0	489.0
35°	2756.9	2183.6	1197.2	758.8	598.6	545.2	505.8	477.7	466.5	460.9	463.7
37.5°	2827.1	2211.7	1149.4	716.6	570.5	517.1	480.6	452.4	444.0	441.2	441.2
40°	2911.4	2253.8	1129.7	688.5	545.2	491.8	460.9	432.8	424.3	424.3	424.3
42.5°	2981.7	2287.5	1112.9	657.6	525.5	469.3	441.2	418.7	413.1	410.3	413.1
45°	3051.9	2318.5	1090.4	629.5	500.2	446.8	424.3	401.9	396.2	396.2	396.2
47.5°	3122.2	2335.3	1059.5	601.4	477.7	427.2	407.5	387.8	382.2	382.2	382.2
50°	3178.4	2349.4	1014.5	570.5	452.4	410.3	390.6	371.0	365.3	365.3	365.3
52.5°	3234.6	2352.2	966.7	533.9	427.2	390.6	373.8	354.1	348.5	345.7	345.7
55°	3285.2	2349.4	910.5	491.8	399.1	368.1	354.1	337.2	326.0	314.7	320.4
57.5°	3321.7	2346.6	845.9	449.6	371.0	345.7	340.0	317.6	295.1	267.0	272.6
60°	3307.7	2315.6	775.6	396.2	340.0	323.2	323.2	292.3	252.9	238.9	241.7
62.5°	3217.7	2228.5	702.6	340.0	309.1	300.7	297.9	264.2	233.3	219.2	222.0
65°	2948.0	2009.3	595.8	289.5	278.2	275.4	275.4	244.5	216.4	199.5	202.3
67.5°	2537.7	1686.1	486.2	244.5	247.3	252.9	252.9	224.8	196.7	179.9	182.7
70°	2034.6	1318.0	387.8	210.8	213.6	222.0	227.6	202.3	177.0	160.2	160.2
72.5°	1531.6	1000.4	311.9	177.0	191.1	191.1	199.5	179.9	154.6	137.7	140.5
75°	1110.0	716.6	247.3	148.9	165.8	163.0	163.0	151.8	132.1	120.8	120.8
77.5°	525.5	376.6	196.7	106.8	129.3	126.5	129.3	120.8	112.4	101.2	104.0
80°	258.5	185.5	126.5	75.9	89.9	92.7	101.2	95.5	92.7	84.3	84.3
82.5°	123.7	73.1	59.0	53.4	61.8	64.6	70.3	70.3	73.1	67.4	67.4
85°	33.7	19.7	25.3	33.7	39.3	42.2	47.8	50.6	50.6	47.8	50.6
87.5°	8.4	8.4	11.2	16.9	19.7	22.5	25.3	25.3	11.2	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)