

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: P836684

Luminaire Tested: **ARCH3-60-730-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7321 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63.2
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

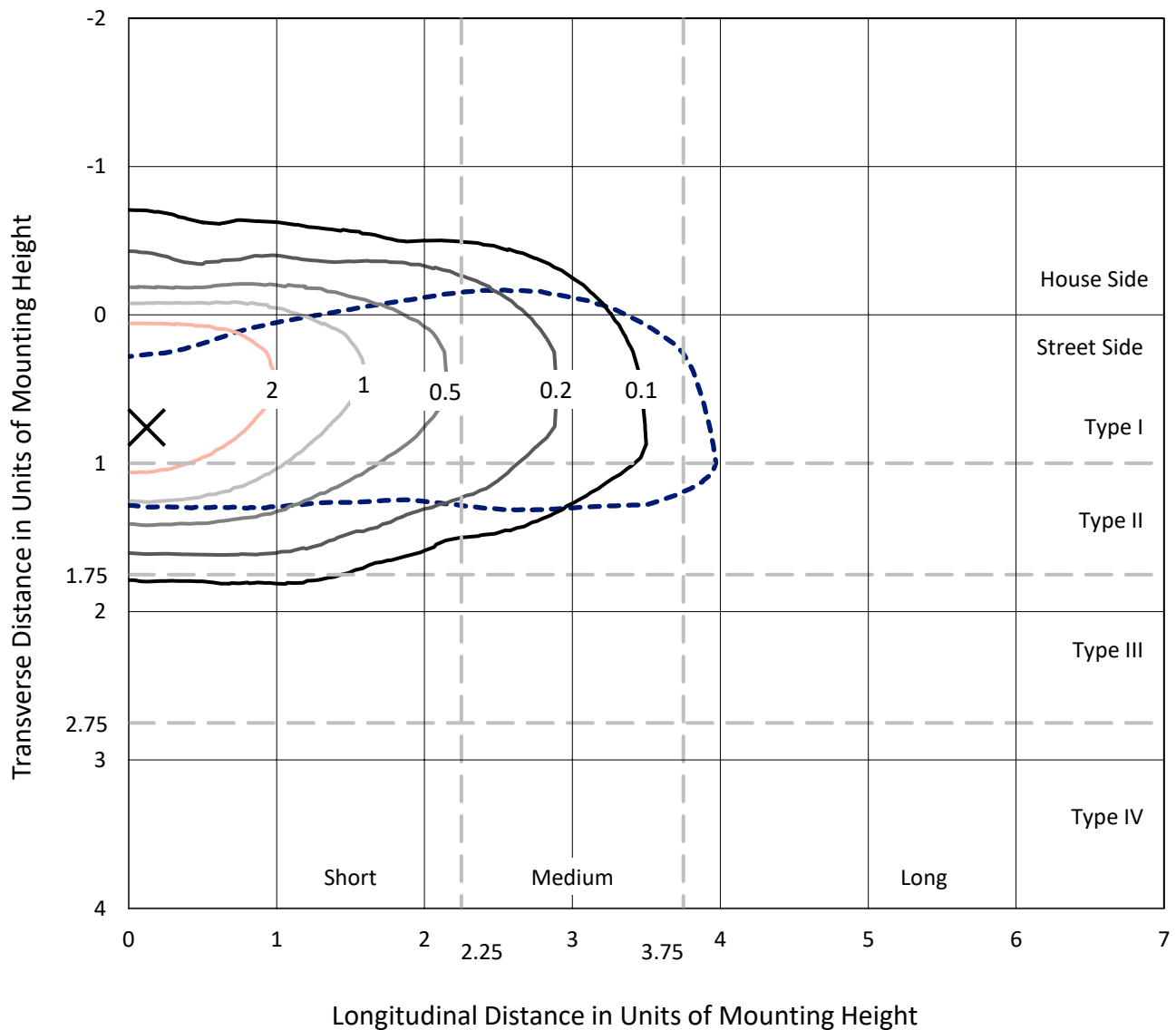


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Iso-Footcandle Lines of Horizontal Illumination

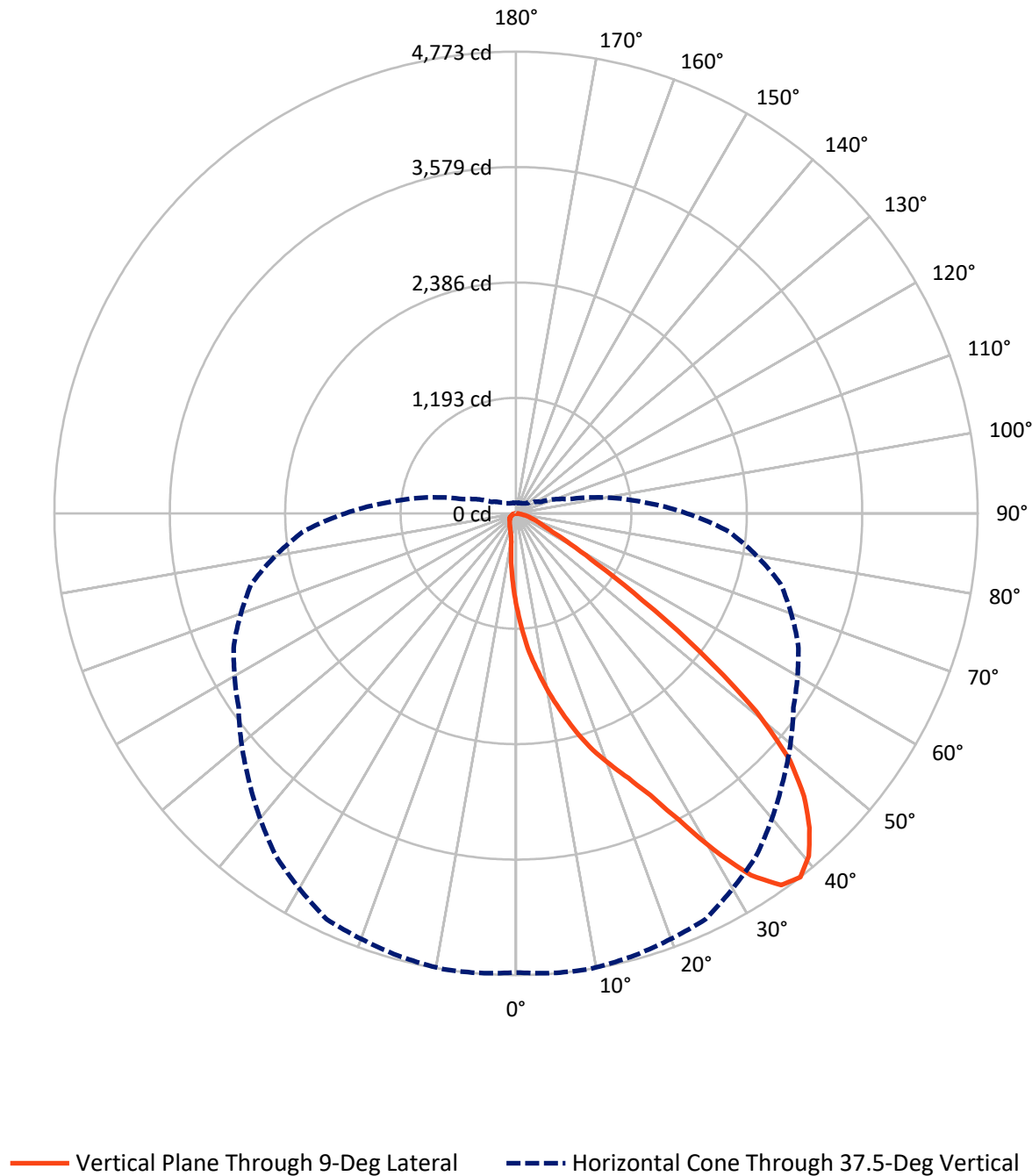
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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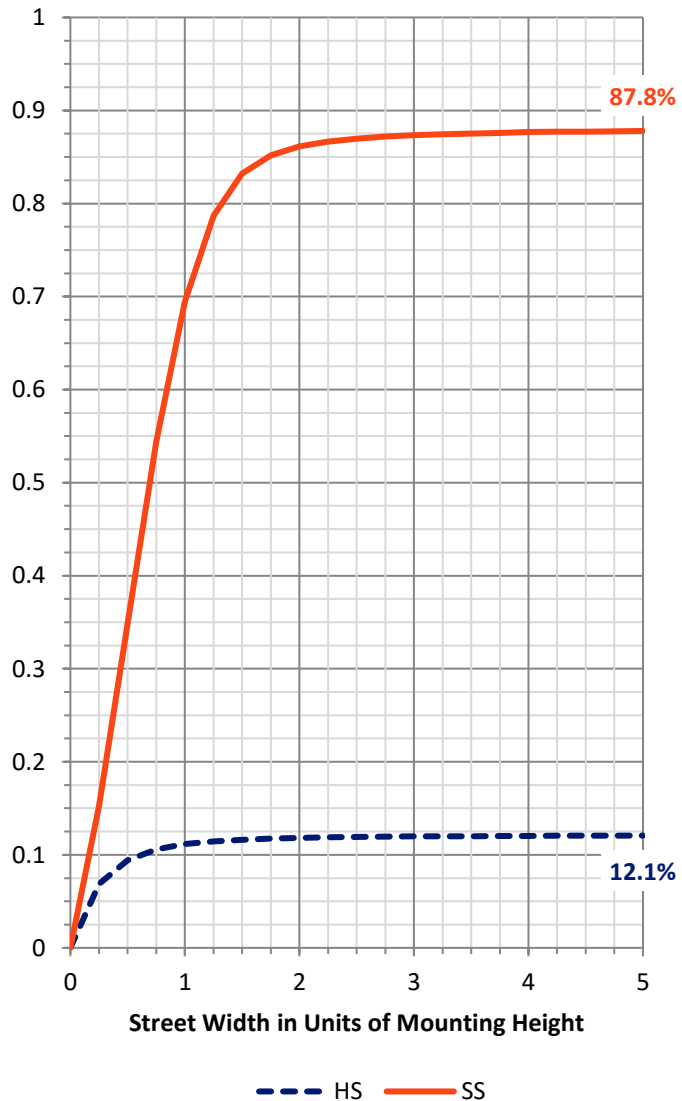
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	890.4	0.0	890.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	6430.6	0.0	6430.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	7321.0	0.0	7321.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	1.3
10°-20°	338.1	4.6
20°-30°	694.7	9.5
30°-40°	1227.9	16.8
40°-50°	1631.2	22.3
50°-60°	1547.1	21.1
60°-70°	1180.3	16.1
70°-80°	572.2	7.8
80°-90°	32.2	0.4
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°	7321.0	100.0
0°-180°	7321.0	100.0

Coefficient of Utilization



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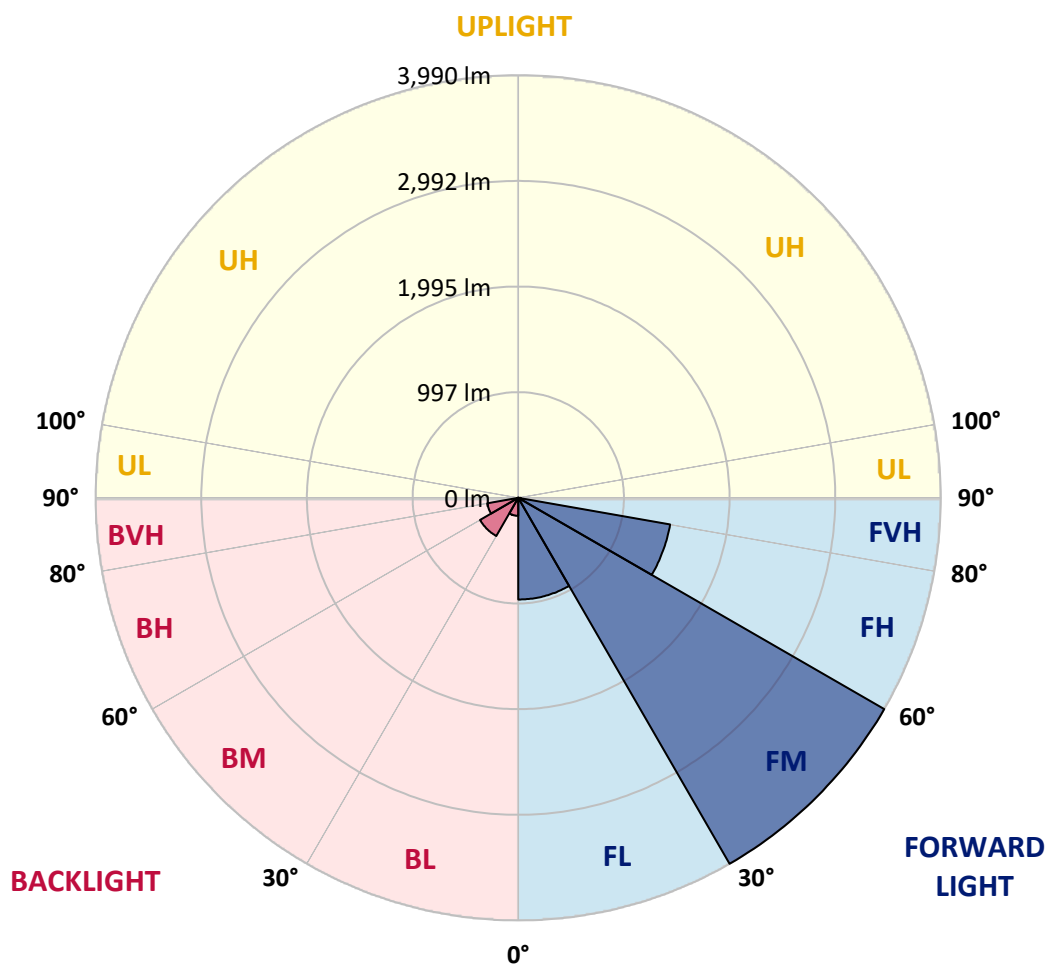
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	960.2	13.1			
FM	(30°-60°)	3989.6	54.5			
FH	(60°-80°)	1455.4	19.9			G1/1800
FVH	(80°-90°)	25.5	0.3			G1/100
BL	(0°-30°)	169.9	2.3	B1/500		
BM	(30°-60°)	416.6	5.7	B1/1000		
BH	(60°-80°)	297.1	4.1	B1/500		G1/500
BVH	(80°-90°)	6.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7
2.5°	1199.2	1178.1	1202.2	1199.2	1178.1	1164.6	1122.5	1109.0	1059.4	1023.3	991.8
5°	1445.6	1424.6	1445.6	1439.6	1409.5	1376.5	1307.4	1262.3	1173.6	1095.5	1024.9
7.5°	1650.0	1650.0	1659.0	1660.5	1624.4	1573.3	1487.7	1420.1	1295.3	1175.1	1062.4
10°	1870.9	1872.4	1891.9	1878.4	1830.3	1761.2	1653.0	1567.3	1417.1	1259.3	1098.5
12.5°	2106.8	2108.3	2114.3	2108.3	2051.2	1962.5	1831.8	1719.1	1546.3	1355.4	1148.1
15°	2342.7	2344.2	2351.7	2341.2	2278.1	2174.4	2025.7	1887.4	1683.0	1463.6	1208.2
17.5°	2563.6	2566.6	2572.6	2559.1	2493.0	2369.8	2218.0	2051.2	1828.8	1579.4	1275.8
20°	2762.0	2765.0	2769.5	2751.5	2685.3	2562.1	2398.3	2224.0	1977.6	1698.1	1349.4
22.5°	2961.8	2964.9	2972.4	2948.3	2874.7	2733.4	2572.6	2392.3	2135.4	1828.8	1435.1
25°	3217.3	3220.3	3226.3	3191.8	3091.1	2925.8	2756.0	2571.1	2306.7	1976.1	1540.3
27.5°	3591.5	3588.5	3588.5	3525.4	3352.6	3137.7	2940.8	2753.0	2491.5	2133.9	1656.0
30°	4054.3	4046.8	4042.3	3956.6	3710.2	3376.6	3130.2	2922.8	2668.8	2300.7	1780.7
32.5°	4469.1	4469.1	4460.1	4369.9	4108.4	3698.2	3331.5	3088.1	2840.1	2469.0	1909.9
35°	4714.0	4724.5	4720.0	4652.4	4461.6	4043.8	3603.5	3286.4	3020.5	2644.8	2064.7
37.5°	4747.1	4768.1	4772.6	4732.0	4631.4	4326.3	3905.6	3501.3	3218.8	2834.1	2215.0
40°	4613.3	4658.4	4658.4	4652.4	4616.3	4460.1	4159.5	3750.8	3423.2	3031.0	2366.8
42.5°	4407.5	4454.0	4448.0	4470.6	4461.6	4428.5	4302.3	3983.7	3627.6	3233.8	2505.0
45°	4138.5	4186.6	4174.5	4215.1	4233.1	4269.2	4287.2	4146.0	3828.9	3454.7	2659.8
47.5°	3707.2	3788.3	3806.4	3878.5	3953.6	4066.3	4152.0	4204.6	4016.8	3692.2	2828.1
50°	3070.0	3184.3	3220.3	3372.1	3578.0	3810.9	3949.1	4132.5	4149.0	3935.6	3009.9
52.5°	2198.5	2330.7	2386.3	2635.8	3059.5	3465.3	3714.7	3973.2	4200.1	4168.5	3206.8
55°	1421.6	1534.3	1588.4	1822.8	2386.3	3023.5	3438.2	3767.3	4171.5	4381.9	3432.2
57.5°	876.1	940.7	976.8	1178.1	1696.6	2456.9	3076.1	3578.0	4084.4	4566.7	3666.6
60°	590.6	628.1	646.2	740.8	1152.6	1836.3	2578.7	3379.6	3970.2	4691.5	3880.0
62.5°	392.2	404.2	422.3	480.9	760.4	1289.3	1980.6	3025.0	3884.5	4699.0	4037.8
65°	303.5	309.6	317.1	342.6	468.8	901.6	1393.0	2450.9	3756.8	4539.7	4087.4
67.5°	238.9	244.9	254.0	267.5	339.6	611.6	948.2	1795.7	3495.3	4290.2	4006.2
70°	187.8	192.3	198.4	210.4	264.5	443.3	626.6	1193.2	2967.9	4052.8	3750.8
72.5°	148.8	153.3	159.3	171.3	214.9	324.6	429.8	743.8	2288.6	3762.8	3259.4
75°	117.2	120.2	124.7	136.7	172.8	252.5	291.5	444.8	1555.3	3232.3	2539.6
77.5°	58.6	72.1	82.6	94.7	126.2	174.3	193.9	246.4	656.7	1659.0	1211.2
80°	34.6	42.1	45.1	52.6	82.6	105.2	105.2	99.2	207.4	637.2	494.4
82.5°	19.5	27.0	28.6	30.1	49.6	60.1	48.1	36.1	42.1	213.4	144.3
85°	6.0	9.0	10.5	12.0	16.5	18.0	16.5	15.0	12.0	21.0	13.5
87.5°	0.0	0.0	0.0	0.0	1.5	3.0	3.0	3.0	4.5	4.5	4.5
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°	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7
2.5°	973.8	954.2	916.7	882.1	849.0	825.0	802.4	781.4	766.4	754.4	752.9
5°	987.3	948.2	876.1	808.5	746.8	695.8	652.2	617.6	592.1	574.0	572.5
7.5°	1005.3	945.2	835.5	734.8	643.2	569.5	506.4	459.8	426.8	413.2	402.7
10°	1020.3	942.2	794.9	661.2	541.0	447.8	372.7	326.1	302.0	293.0	288.5
12.5°	1045.9	945.2	760.4	593.6	452.3	342.6	285.5	260.0	249.5	241.9	240.4
15°	1083.5	958.7	727.3	527.5	362.2	276.5	243.4	226.9	216.4	214.9	213.4
17.5°	1121.0	970.8	697.3	459.8	300.5	240.4	217.9	204.4	196.9	195.4	195.4
20°	1164.6	985.8	664.2	395.2	257.0	216.4	198.4	187.8	178.8	177.3	177.3
22.5°	1215.7	1006.8	632.6	338.1	228.4	198.4	183.3	171.3	163.8	162.3	162.3
25°	1284.8	1038.4	607.1	296.0	208.9	183.3	169.8	159.3	153.3	150.3	150.3
27.5°	1361.5	1082.0	589.1	270.5	195.4	171.3	157.8	148.8	142.8	139.8	139.8
30°	1447.1	1130.0	577.0	260.0	187.8	160.8	148.8	139.8	132.2	130.7	130.7
32.5°	1541.8	1185.6	569.5	261.5	186.3	153.3	139.8	130.7	124.7	121.7	121.7
35°	1647.0	1247.3	565.0	270.5	189.3	147.3	132.2	123.2	117.2	114.2	114.2
37.5°	1764.2	1319.4	565.0	279.5	196.9	145.8	124.7	115.7	111.2	108.2	108.2
40°	1873.9	1396.0	571.0	290.0	204.4	145.8	118.7	111.2	105.2	102.2	102.2
42.5°	1959.5	1439.6	575.5	300.5	208.9	144.3	112.7	105.2	100.7	97.7	97.7
45°	2057.2	1486.2	566.5	305.1	208.9	141.3	108.2	100.7	96.2	93.2	93.2
47.5°	2165.4	1543.3	565.0	308.1	204.4	135.2	103.7	96.2	93.2	90.2	90.2
50°	2275.1	1606.4	568.0	306.6	198.4	126.2	97.7	93.2	88.7	85.7	85.7
52.5°	2399.8	1672.5	574.0	303.5	184.8	115.7	93.2	88.7	84.2	81.1	79.6
55°	2538.1	1744.7	586.1	297.5	166.8	105.2	88.7	84.2	78.1	75.1	73.6
57.5°	2697.4	1833.3	599.6	285.5	147.3	96.2	84.2	78.1	69.1	64.6	63.1
60°	2849.1	1934.0	614.6	257.0	127.7	87.2	79.6	70.6	61.6	58.6	57.1
62.5°	2991.9	2033.2	622.1	205.9	108.2	79.6	75.1	64.6	55.6	52.6	51.1
65°	3083.6	2141.4	605.6	139.8	88.7	73.6	69.1	60.1	51.1	46.6	46.6
67.5°	3089.6	2192.5	548.5	91.7	72.1	66.1	63.1	54.1	45.1	42.1	40.6
70°	2937.8	2115.8	419.3	72.1	60.1	57.1	57.1	48.1	39.1	36.1	34.6
72.5°	2589.2	1873.9	267.5	58.6	51.1	48.1	48.1	40.6	34.6	30.1	28.6
75°	2043.7	1445.6	142.8	48.1	42.1	40.6	37.6	33.1	28.6	25.5	24.0
77.5°	939.2	637.2	66.1	34.6	31.6	31.6	28.6	24.0	22.5	19.5	19.5
80°	371.2	216.4	33.1	22.5	21.0	21.0	21.0	16.5	16.5	13.5	12.0
82.5°	102.2	45.1	16.5	13.5	13.5	13.5	12.0	10.5	10.5	9.0	9.0
85°	10.5	7.5	7.5	7.5	7.5	6.0	6.0	4.5	3.0	3.0	3.0
87.5°	4.5	4.5	4.5	4.5	4.5	3.0	1.5	0.0	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)