

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: P1210876

Luminaire Tested: **ARCH4-100-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-100-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12202 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 103.1
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



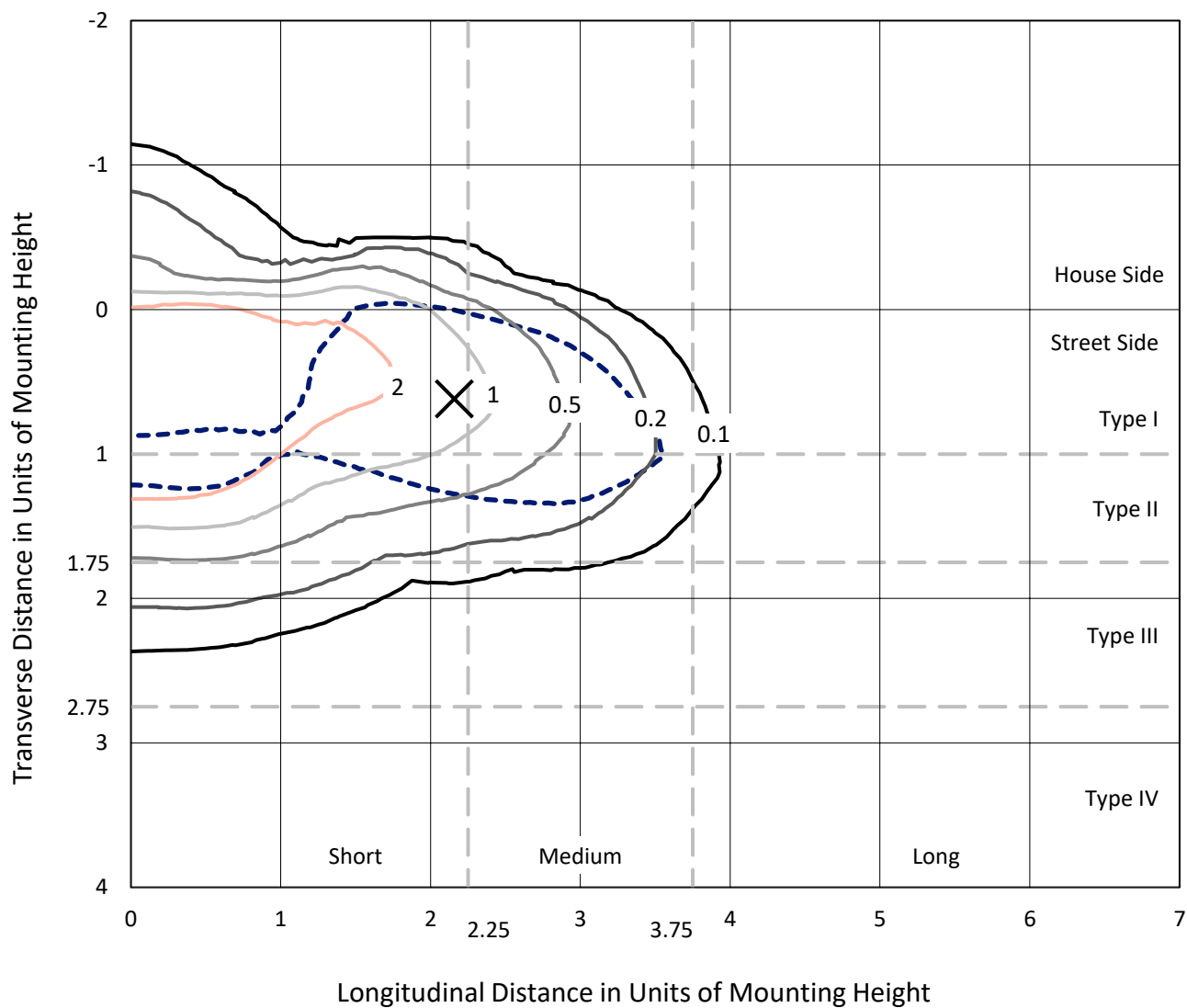
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

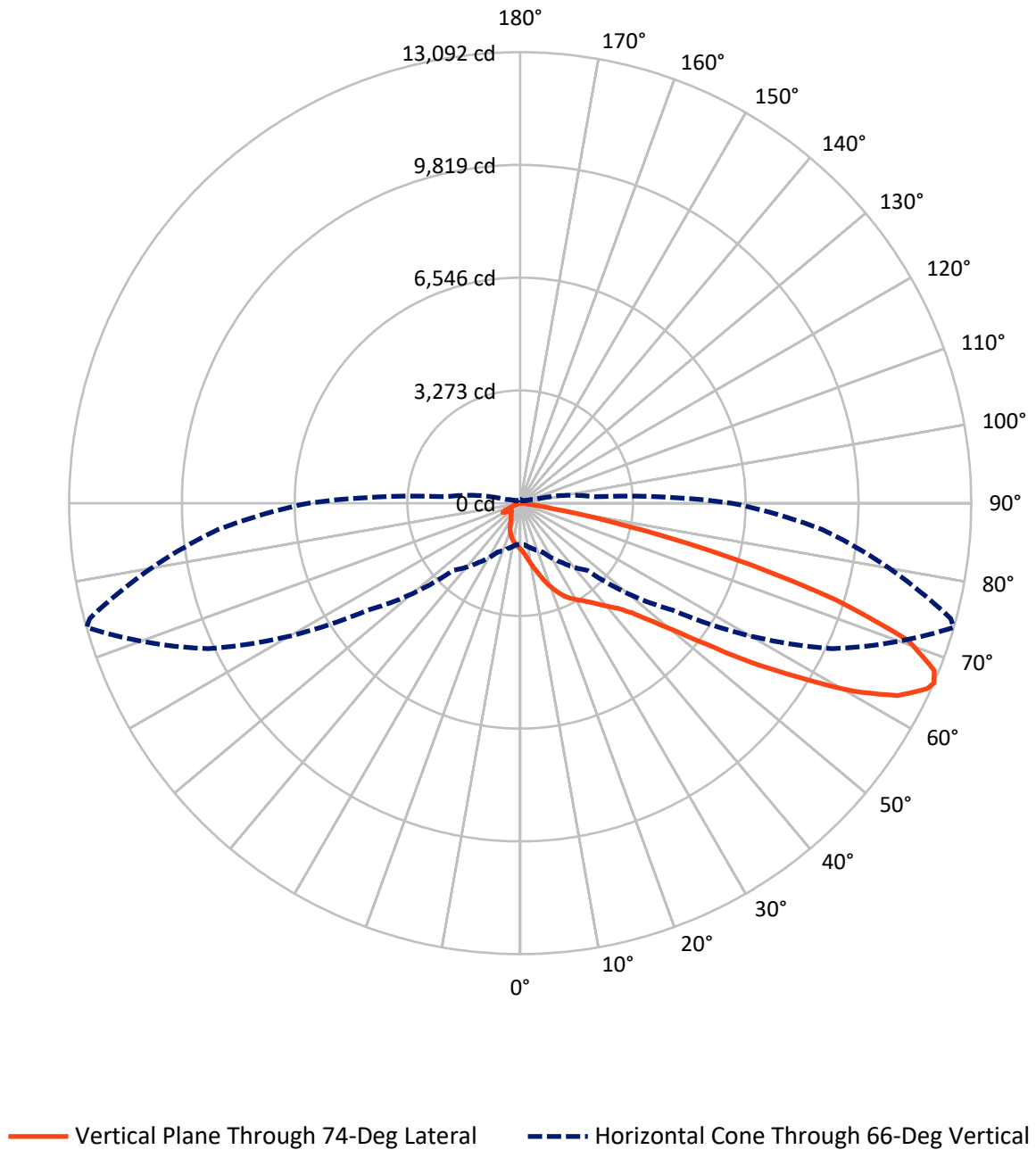
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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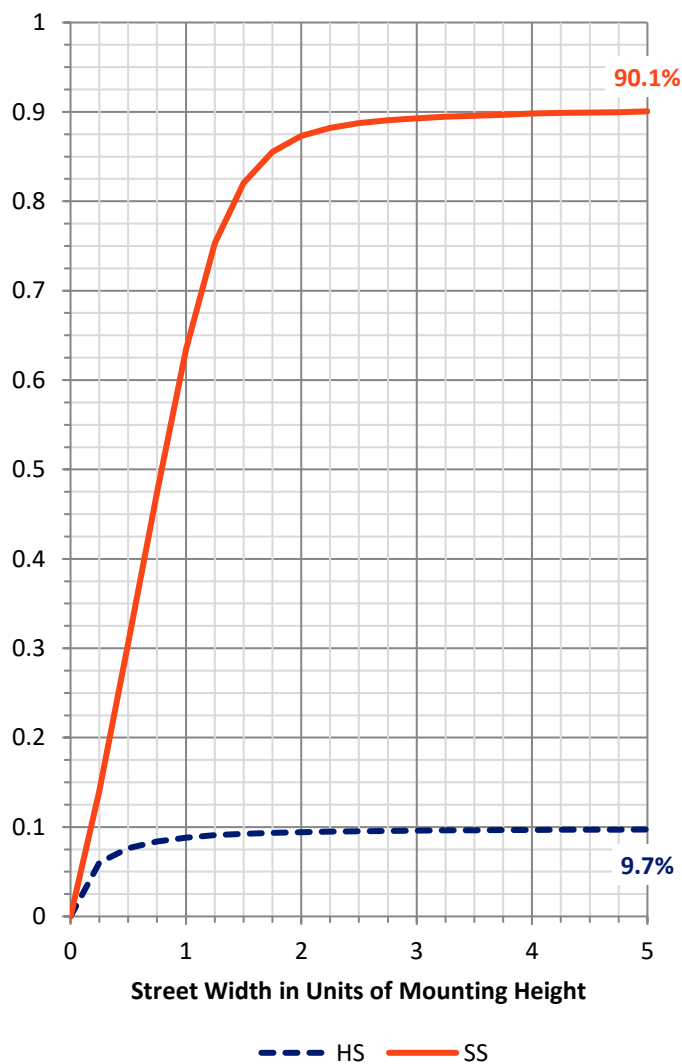
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1196.2	0.0	1196.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	11005.8	0.0	11005.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	12202.0	0.0	12202.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	1.1
10°-20°	416.8	3.4
20°-30°	795.4	6.5
30°-40°	1394.1	11.4
40°-50°	2390.6	19.6
50°-60°	3109.1	25.5
60°-70°	2814.6	23.1
70°-80°	1086.0	8.9
80°-90°	65.4	0.5
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°	12202.0	100.0
0°-180°	12202.0	100.0

Coefficient of Utilization



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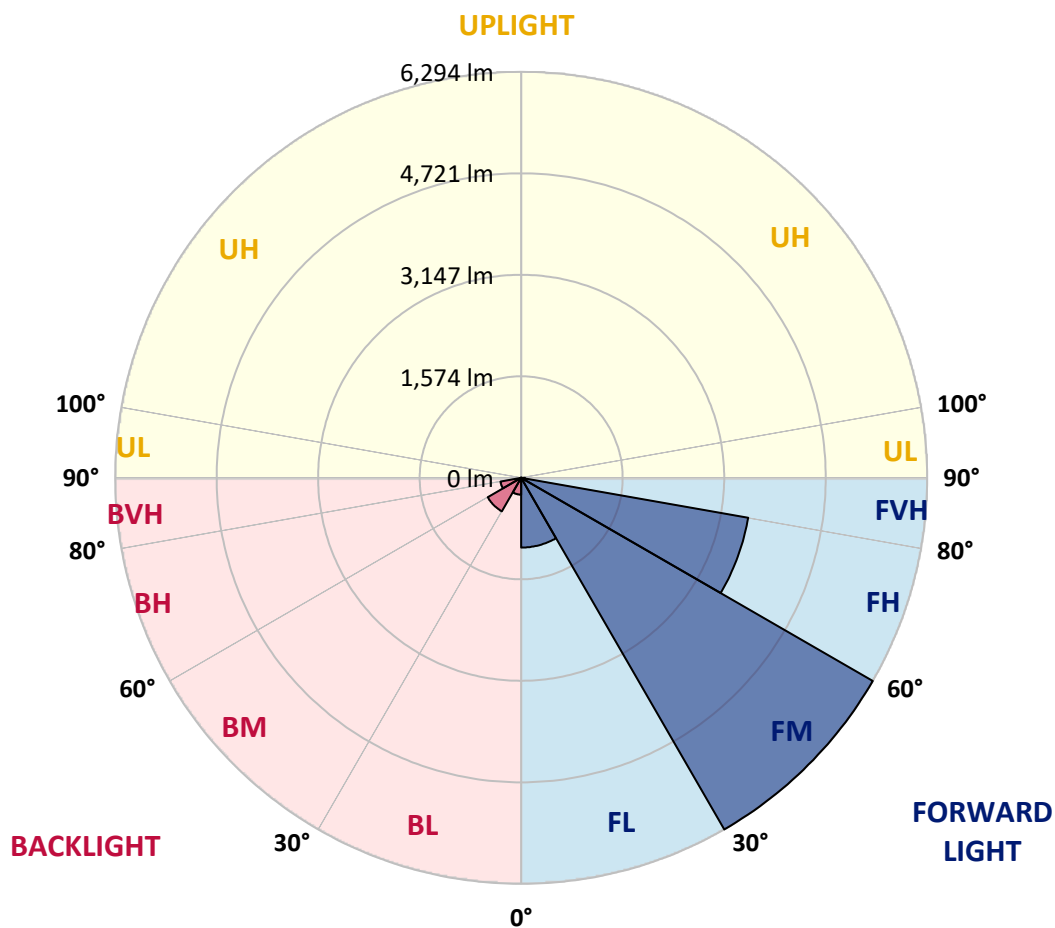
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1081.3	8.9			
FM	(30°-60°)	6294.4	51.6			
FH	(60°-80°)	3573.5	29.3			G2/5000
FVH	(80°-90°)	56.6	0.5			G1/100
BL	(0°-30°)	260.9	2.1	B1/500		
BM	(30°-60°)	599.5	4.9	B1/1000		
BH	(60°-80°)	327.0	2.7	B1/500		G1/500
BVH	(80°-90°)	8.8	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0
2.5°	1599.2	1586.1	1562.0	1559.8	1540.1	1516.0	1474.4	1430.5	1399.9	1395.5	1358.2
5°	1914.7	1908.1	1884.0	1868.7	1831.4	1774.5	1678.1	1581.7	1500.6	1491.9	1408.6
7.5°	1997.9	2002.3	2006.7	2022.0	2008.9	1982.6	1910.3	1774.5	1647.4	1627.7	1483.1
10°	2011.1	2006.7	2006.7	2026.4	2063.7	2100.9	2092.1	1976.0	1811.7	1787.6	1586.1
12.5°	2153.5	2160.0	2144.7	2135.9	2129.4	2149.1	2214.8	2164.4	1984.8	1965.1	1710.9
15°	2337.5	2335.3	2313.4	2313.4	2293.7	2260.8	2302.4	2339.7	2192.9	2168.8	1853.3
17.5°	2471.1	2479.9	2477.7	2490.8	2484.3	2440.5	2418.5	2495.2	2407.6	2376.9	2015.5
20°	2578.5	2602.6	2611.3	2653.0	2672.7	2642.0	2585.0	2633.2	2613.5	2585.0	2179.8
22.5°	2692.4	2712.1	2727.4	2799.7	2854.5	2847.9	2775.6	2764.7	2812.9	2786.6	2341.9
25°	2806.3	2815.1	2861.1	2948.7	3036.3	3058.2	2983.8	2898.3	2992.5	2968.4	2486.5
27.5°	2931.2	2935.6	2990.3	3097.7	3220.3	3266.4	3207.2	3049.5	3130.5	3130.5	2617.9
30°	3159.0	3202.8	3224.7	3321.1	3428.5	3492.0	3421.9	3209.4	3253.2	3272.9	2755.9
32.5°	3649.7	3656.3	3649.7	3691.4	3713.3	3750.5	3669.4	3389.0	3378.1	3400.0	2891.7
35°	4399.0	4372.7	4302.6	4241.2	4114.2	4044.1	3938.9	3619.1	3531.4	3562.1	3025.4
37.5°	5308.1	5270.9	5110.9	4922.5	4650.9	4370.5	4239.0	3899.5	3726.4	3765.8	3170.0
40°	6175.6	6151.5	5960.9	5728.7	5264.3	4784.5	4506.3	4136.1	3943.3	3958.6	3316.7
42.5°	6889.8	6885.4	6725.5	6482.3	5886.4	5231.4	4821.8	4368.3	4171.1	4195.2	3470.1
45°	7430.9	7389.3	7271.0	7095.7	6488.9	5695.9	5202.9	4721.0	4537.0	4565.4	3700.1
47.5°	7430.9	7437.5	7514.1	7496.6	6909.5	6131.8	5619.2	5165.7	5078.1	5104.4	4079.1
50°	6826.3	6887.6	7229.4	7516.3	7128.6	6471.4	6068.3	5722.1	5812.0	5851.4	4740.7
52.5°	5630.1	5733.1	6326.8	6981.8	6966.5	6642.2	6532.7	6429.7	6832.8	6902.9	5717.8
55°	4278.5	4346.4	5119.7	5980.6	6261.1	6502.0	6938.0	7327.9	8184.5	8169.2	6710.2
57.5°	3196.3	3259.8	3925.8	4880.9	5251.1	5895.2	7146.1	8355.4	9525.2	9584.4	7641.2
60°	2350.6	2398.8	2966.2	3750.5	4285.0	4966.3	7062.9	9367.5	11069.7	11001.8	8462.7
62.5°	1739.4	1765.7	2175.4	2685.8	3395.6	4046.2	6539.3	10059.8	12303.0	12165.0	8920.6
65°	1345.1	1353.9	1566.4	1838.0	2468.9	3145.9	5759.4	10164.9	12984.4	12837.6	8911.8
66°	1198.3	1204.9	1360.4	1570.7	2100.9	2753.7	5417.6	9996.2	13091.7	12936.2	8802.3
67.5°	1005.5	1001.2	1093.2	1231.2	1577.3	2125.0	4810.8	9503.3	12964.6	12885.8	8451.8
70°	744.8	747.0	793.0	825.9	922.3	1176.4	3474.5	8243.7	11948.2	11943.8	7490.0
72.5°	552.1	558.6	593.7	600.3	576.2	637.5	2002.3	6556.8	9558.1	9560.3	5599.5
75°	414.0	425.0	436.0	440.3	418.4	403.1	904.8	4412.1	6287.3	6241.3	3170.0
77.5°	315.5	319.8	328.6	322.0	317.7	278.2	376.8	2151.3	3104.2	2828.2	1027.4
80°	230.0	230.0	238.8	230.0	227.8	199.4	205.9	690.1	911.3	758.0	221.3
82.5°	144.6	142.4	149.0	146.8	142.4	127.1	120.5	192.8	210.3	188.4	107.3
85°	81.1	78.9	76.7	74.5	67.9	57.0	65.7	72.3	96.4	98.6	76.7
87.5°	28.5	28.5	26.3	24.1	19.7	19.7	24.1	24.1	35.1	35.1	39.4
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°	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0	1332.0
2.5°	1340.7	1316.6	1281.6	1235.6	1202.7	1169.8	1134.8	1115.1	1086.6	1080.0	1088.8
5°	1364.8	1321.0	1233.4	1137.0	1053.7	979.2	909.1	867.5	825.9	810.6	817.1
7.5°	1415.2	1340.7	1191.7	1036.2	898.2	786.5	703.2	655.0	617.8	602.4	606.8
10°	1489.7	1375.8	1152.3	922.3	744.8	626.5	556.4	525.8	503.9	495.1	497.3
12.5°	1579.5	1426.2	1101.9	808.4	613.4	510.4	477.6	471.0	466.6	462.2	464.4
15°	1680.3	1470.0	1042.8	696.6	510.4	453.5	442.5	440.3	438.1	438.1	438.1
17.5°	1785.4	1509.4	977.1	591.5	444.7	418.4	411.9	411.9	411.9	414.0	414.0
20°	1884.0	1540.1	900.4	497.3	407.5	385.6	381.2	381.2	383.4	385.6	385.6
22.5°	1980.4	1553.2	810.6	431.6	376.8	357.1	350.5	350.5	350.5	352.7	352.7
25°	2063.7	1553.2	720.7	389.9	350.5	330.8	322.0	319.8	322.0	322.0	322.0
27.5°	2133.8	1546.6	633.1	361.5	324.2	304.5	295.7	293.6	297.9	300.1	300.1
30°	2208.2	1537.9	563.0	335.2	302.3	282.6	273.8	273.8	280.4	289.2	289.2
32.5°	2280.5	1544.5	508.2	313.3	280.4	265.1	256.3	258.5	271.6	284.8	284.8
35°	2357.2	1557.6	475.4	297.9	265.1	249.7	243.2	249.7	262.9	276.0	276.0
37.5°	2433.9	1572.9	455.7	284.8	251.9	236.6	232.2	241.0	256.3	269.5	271.6
40°	2514.9	1586.1	433.8	271.6	243.2	225.6	223.5	232.2	251.9	265.1	267.3
42.5°	2615.7	1612.4	407.5	260.7	234.4	212.5	214.7	221.3	241.0	260.7	262.9
45°	2812.9	1695.6	381.2	249.7	223.5	205.9	201.5	205.9	227.8	249.7	254.1
47.5°	3183.1	1884.0	352.7	238.8	212.5	201.5	184.0	188.4	208.1	232.2	234.4
50°	3892.9	2284.9	337.4	227.8	203.7	186.2	166.5	166.5	181.8	203.7	203.7
52.5°	4999.2	3003.5	346.1	219.1	192.8	170.9	151.2	149.0	157.7	173.1	173.1
55°	6193.1	3792.1	379.0	210.3	179.6	162.1	140.2	129.3	135.8	144.6	144.6
57.5°	7139.5	4188.6	468.8	205.9	164.3	155.5	127.1	111.7	118.3	127.1	127.1
60°	7555.8	3956.4	569.6	210.3	153.3	144.6	113.9	98.6	109.5	118.3	120.5
62.5°	7218.4	3257.6	611.2	199.4	138.0	129.3	111.7	92.0	105.2	111.7	113.9
65°	6488.9	2475.5	477.6	173.1	127.1	111.7	100.8	87.6	98.6	105.2	105.2
66°	6142.8	2157.9	407.5	159.9	122.7	105.2	96.4	87.6	96.4	100.8	103.0
67.5°	5606.0	1702.2	302.3	140.2	113.9	96.4	89.8	83.2	92.0	96.4	96.4
70°	4383.6	1014.3	181.8	109.5	98.6	85.4	81.1	76.7	83.2	85.4	85.4
72.5°	2745.0	482.0	116.1	81.1	83.2	81.1	67.9	72.3	74.5	76.7	76.7
75°	1329.8	190.6	78.9	59.1	67.9	76.7	54.8	63.5	65.7	70.1	67.9
77.5°	370.2	92.0	50.4	43.8	59.1	59.1	41.6	50.4	59.1	74.5	67.9
80°	107.3	59.1	32.9	32.9	41.6	41.6	28.5	35.1	39.4	43.8	46.0
82.5°	74.5	39.4	21.9	24.1	24.1	26.3	17.5	17.5	21.9	21.9	24.1
85°	59.1	17.5	13.1	15.3	11.0	13.1	8.8	8.8	11.0	8.8	8.8
87.5°	24.1	8.8	8.8	8.8	6.6	6.6	4.4	2.2	2.2	2.2	2.2
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)