

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: P1210424

Luminaire Tested: **ARCH3-120-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210424
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: ARCH3-120-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12315 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.7
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

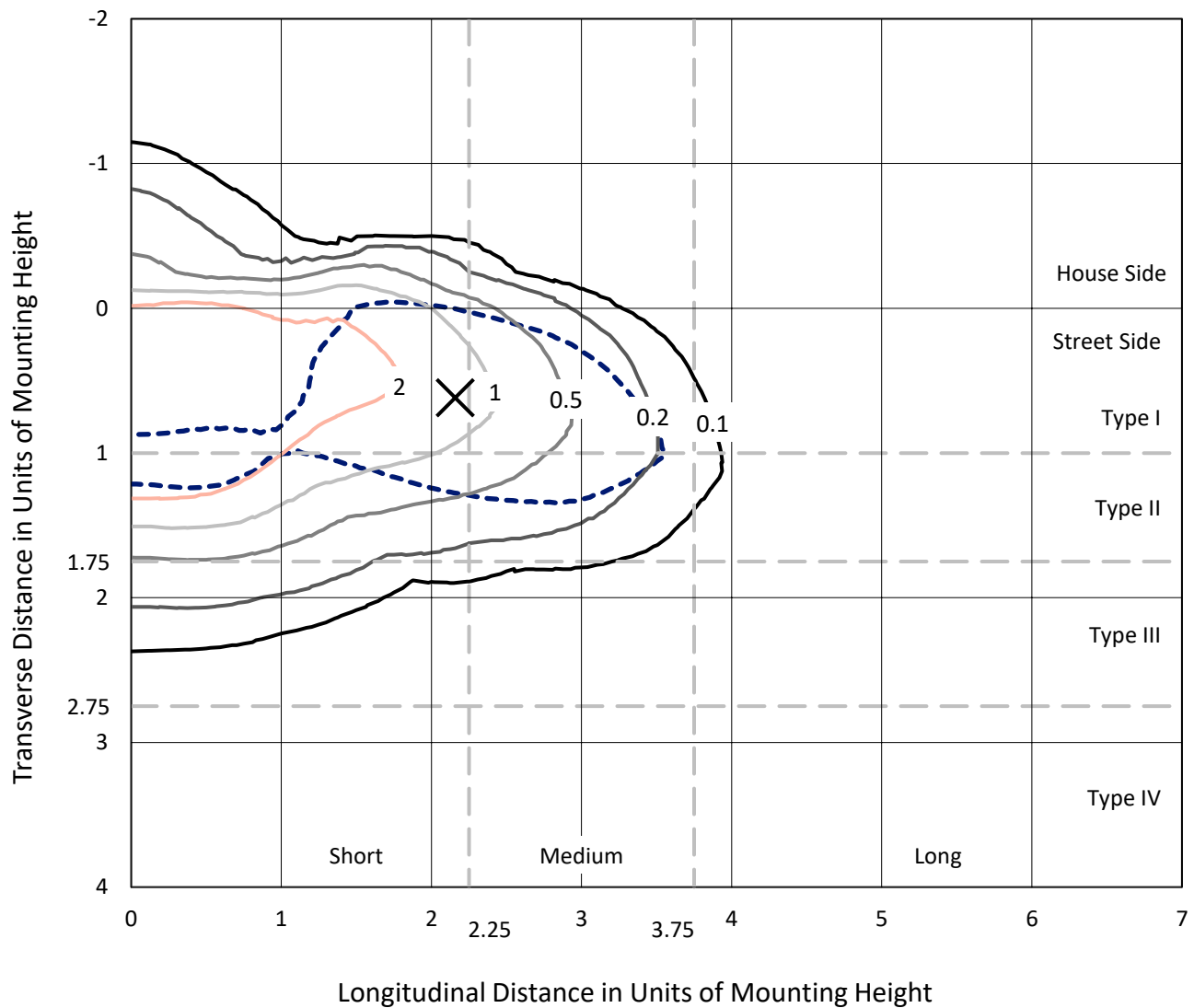


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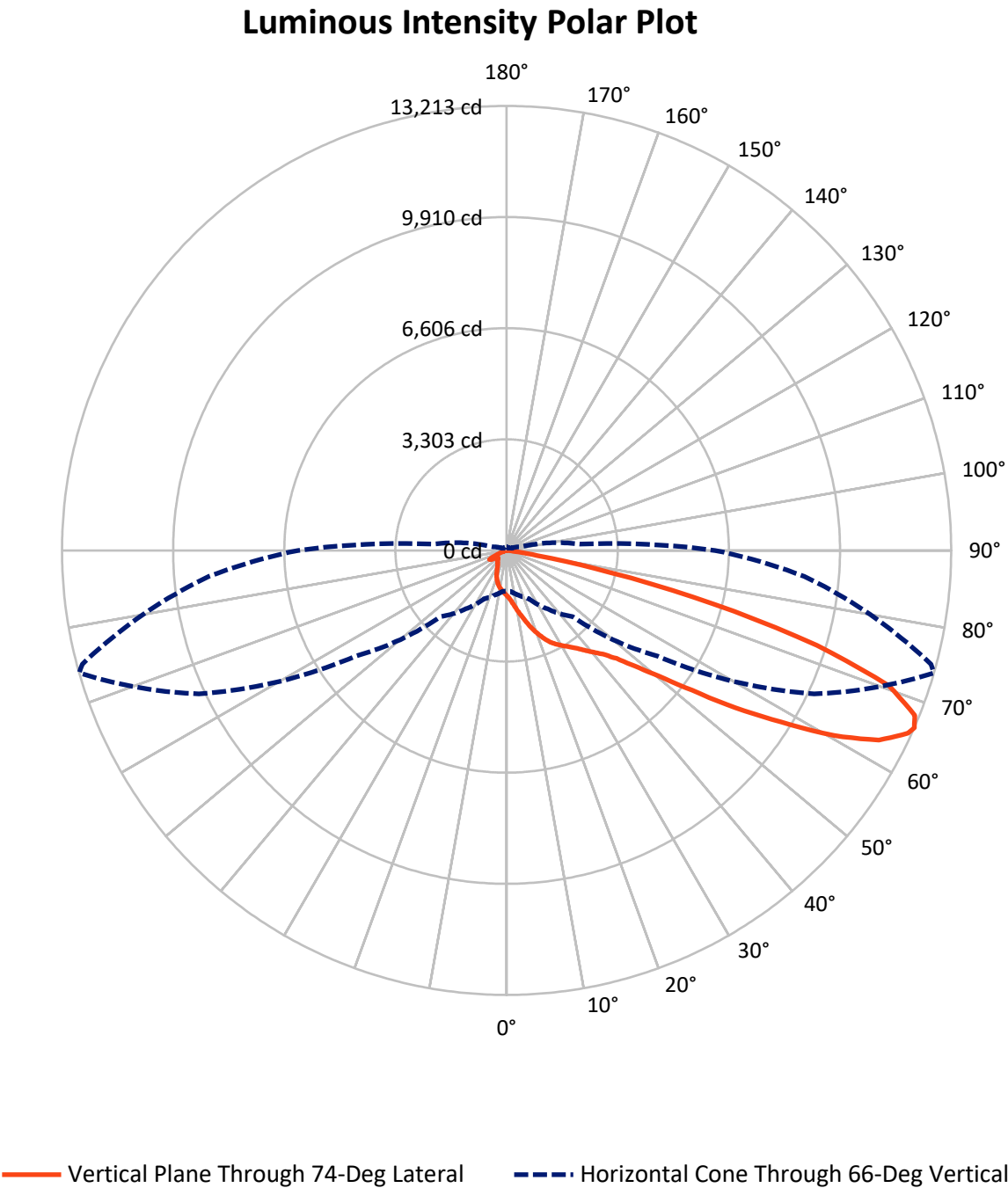
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type II - Short - N/A

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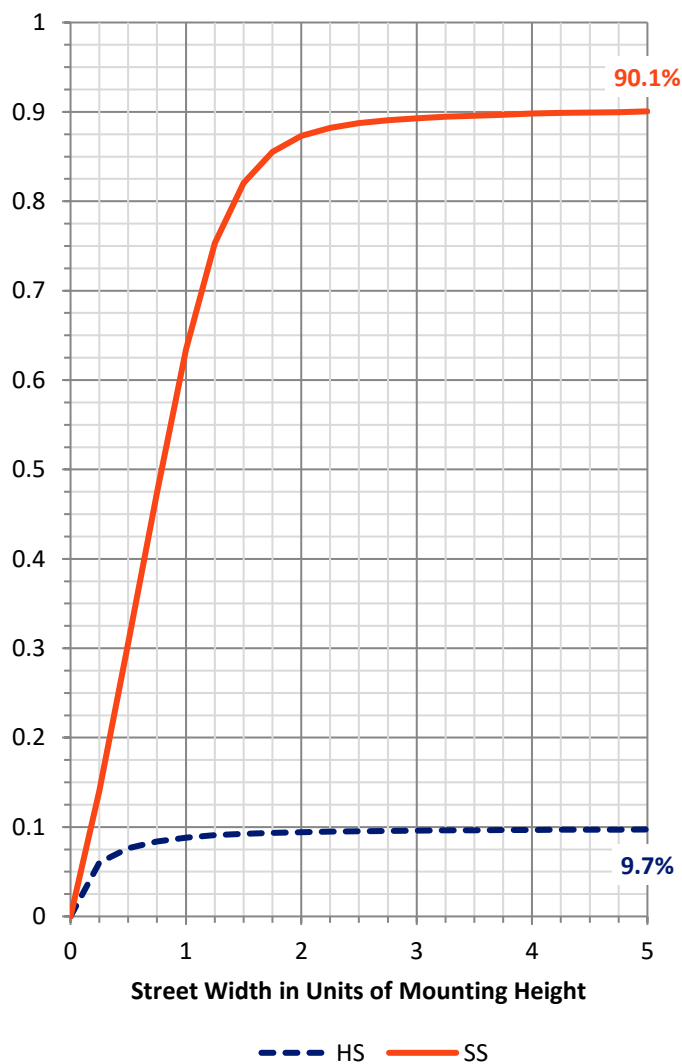
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1207.3	0.0	1207.3
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	11107.7	0.0	11107.7
	% Fixture	90.2	0.0	90.2
Total	Lumens	12315.0	0.0	12315.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.2	1.1
10°-20°	420.6	3.4
20°-30°	802.8	6.5
30°-40°	1407.1	11.4
40°-50°	2412.7	19.6
50°-60°	3137.9	25.5
60°-70°	2840.6	23.1
70°-80°	1096.1	8.9
80°-90°	66.0	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°	12315.0	100.0
0°-180°	12315.0	100.0

Coefficient of Utilization



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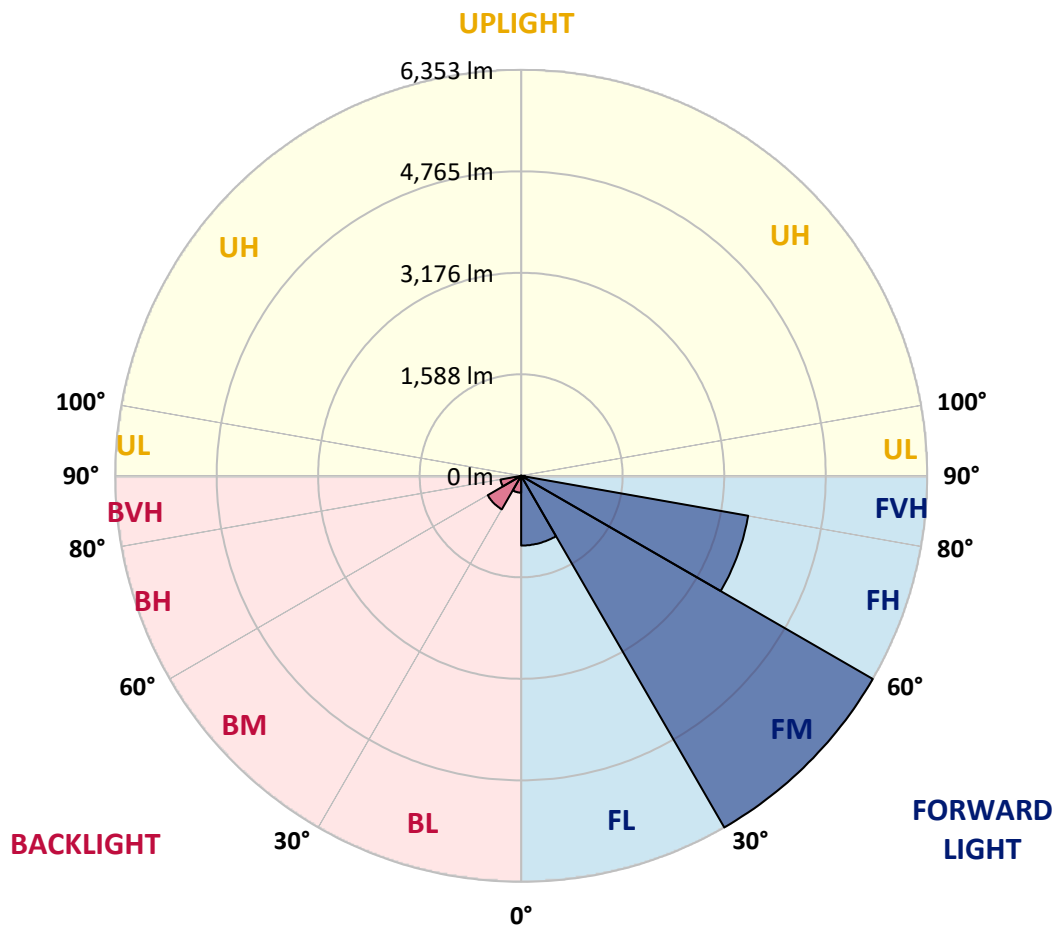
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1091.3	8.9			
FM	(30°-60°)	6352.7	51.6			
FH	(60°-80°)	3606.6	29.3			G2/5000
FVH	(80°-90°)	57.1	0.5			G1/100
BL	(0°-30°)	263.3	2.1	B1/500		
BM	(30°-60°)	605.0	4.9	B1/1000		
BH	(60°-80°)	330.0	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°	1344.3	1344.3	1344.3	1344.3	1344.3	1344.3	1344.3	1344.3	1344.3	1344.3	1344.3
2.5°	1614.0	1600.8	1576.4	1574.2	1554.3	1530.0	1488.0	1443.8	1412.8	1408.4	1370.8
5°	1932.4	1925.8	1901.5	1886.0	1848.4	1790.9	1693.6	1596.3	1514.5	1505.7	1421.7
7.5°	2016.4	2020.9	2025.3	2040.8	2027.5	2001.0	1928.0	1790.9	1662.7	1642.8	1496.8
10°	2029.7	2025.3	2025.3	2045.2	2082.8	2120.4	2111.5	1994.3	1828.5	1804.2	1600.8
12.5°	2173.4	2180.0	2164.6	2155.7	2149.1	2169.0	2235.3	2184.5	2003.2	1983.3	1726.8
15°	2359.1	2356.9	2334.8	2334.8	2314.9	2281.8	2323.8	2361.3	2213.2	2188.9	1870.5
17.5°	2494.0	2502.9	2500.6	2513.9	2507.3	2463.1	2440.9	2518.3	2429.9	2398.9	2034.1
20°	2602.3	2626.7	2635.5	2677.5	2697.4	2666.5	2609.0	2657.6	2637.7	2609.0	2199.9
22.5°	2717.3	2737.2	2752.7	2825.7	2880.9	2874.3	2801.3	2790.3	2838.9	2812.4	2363.6
25°	2832.3	2841.1	2887.6	2976.0	3064.4	3086.6	3011.4	2925.2	3020.2	2995.9	2509.5
27.5°	2958.3	2962.7	3018.0	3126.4	3250.2	3296.6	3236.9	3077.7	3159.5	3159.5	2642.1
30°	3188.3	3232.5	3254.6	3351.9	3460.2	3524.3	3453.6	3239.1	3283.3	3303.2	2781.4
32.5°	3683.5	3690.2	3683.5	3725.5	3747.6	3785.2	3703.4	3420.4	3409.4	3431.5	2918.5
35°	4439.7	4413.2	4342.4	4280.5	4152.3	4081.5	3975.4	3652.6	3564.1	3595.1	3053.4
37.5°	5357.3	5319.7	5158.3	4968.1	4694.0	4410.9	4278.3	3935.6	3760.9	3800.7	3199.3
40°	6232.8	6208.5	6016.1	5781.8	5313.0	4828.8	4548.0	4174.4	3979.8	3995.3	3347.5
42.5°	6953.6	6949.2	6787.8	6542.4	5941.0	5279.9	4866.4	4408.7	4209.7	4234.1	3502.2
45°	7499.7	7457.7	7338.3	7161.4	6549.0	5748.6	5251.1	4764.7	4579.0	4607.7	3734.4
47.5°	7499.7	7506.3	7583.7	7566.0	6973.5	6188.6	5671.2	5213.5	5125.1	5151.6	4116.9
50°	6889.5	6951.4	7296.3	7585.9	7194.6	6531.3	6124.5	5775.1	5865.8	5905.6	4784.6
52.5°	5682.3	5786.2	6385.4	7046.5	7031.0	6703.8	6593.2	6489.3	6896.1	6966.9	5770.7
55°	4318.1	4386.6	5167.1	6036.0	6319.0	6562.3	7002.2	7395.8	8260.3	8244.8	6772.3
57.5°	3225.9	3290.0	3962.1	4926.1	5299.8	5949.8	7212.3	8432.8	9613.4	9673.1	7712.0
60°	2372.4	2421.0	2993.7	3785.2	4324.7	5012.3	7128.3	9454.2	11172.2	11103.6	8541.1
62.5°	1755.5	1782.1	2195.5	2710.7	3427.1	4083.7	6599.8	10152.9	12417.0	12277.7	9003.2
65°	1357.6	1366.4	1580.9	1855.0	2491.8	3175.0	5812.7	10259.0	13104.6	12956.5	8994.4
66°	1209.4	1216.1	1373.0	1585.3	2120.4	2779.2	5467.8	10088.8	13212.9	13056.0	8883.8
67.5°	1014.8	1010.4	1103.3	1242.6	1591.9	2144.7	4855.4	9591.3	13084.7	13005.1	8530.0
70°	751.7	754.0	800.4	833.5	930.8	1187.3	3506.6	8320.0	12058.8	12054.4	7559.4
72.5°	557.2	563.8	599.2	605.8	581.5	643.4	2020.9	6617.5	9646.6	9648.8	5651.3
75°	417.9	428.9	440.0	444.4	422.3	406.8	913.1	4453.0	6345.6	6299.1	3199.3
77.5°	318.4	322.8	331.7	325.0	320.6	280.8	380.3	2171.2	3133.0	2854.4	1037.0
80°	232.2	232.2	241.0	232.2	229.9	201.2	207.8	696.5	919.8	765.0	223.3
82.5°	145.9	143.7	150.3	148.1	143.7	128.2	121.6	194.6	212.3	190.1	108.3
85°	81.8	79.6	77.4	75.2	68.5	57.5	66.3	73.0	97.3	99.5	77.4
87.5°	28.7	28.7	26.5	24.3	19.9	19.9	24.3	24.3	35.4	35.4	39.8
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°	1344.3	1344.3	1344.3	1344.3	1344.3	1344.3	1344.3	1344.3	1344.3	1344.3	1344.3
2.5°	1353.1	1328.8	1293.4	1247.0	1213.8	1180.7	1145.3	1125.4	1096.7	1090.0	1098.9
5°	1377.5	1333.2	1244.8	1147.5	1063.5	988.3	917.6	875.6	833.5	818.1	824.7
7.5°	1428.3	1353.1	1202.8	1045.8	906.5	793.7	709.7	661.1	623.5	608.0	612.4
10°	1503.5	1388.5	1163.0	930.8	751.7	632.3	561.6	530.6	508.5	499.7	501.9
12.5°	1594.1	1439.4	1112.1	815.9	619.1	515.2	482.0	475.4	470.9	466.5	468.7
15°	1695.8	1483.6	1052.4	703.1	515.2	457.7	446.6	444.4	442.2	442.2	442.2
17.5°	1802.0	1523.4	986.1	597.0	448.8	422.3	415.7	415.7	415.7	417.9	417.9
20°	1901.5	1554.3	908.7	501.9	411.2	389.1	384.7	384.7	386.9	389.1	389.1
22.5°	1998.7	1567.6	818.1	435.6	380.3	360.4	353.8	353.8	353.8	356.0	356.0
25°	2082.8	1567.6	727.4	393.6	353.8	333.9	325.0	322.8	325.0	325.0	325.0
27.5°	2153.5	1561.0	639.0	364.8	327.2	307.3	298.5	296.3	300.7	302.9	302.9
30°	2228.7	1552.1	568.2	338.3	305.1	285.2	276.4	276.4	283.0	291.9	291.9
32.5°	2301.7	1558.8	513.0	316.2	283.0	267.5	258.7	260.9	274.2	287.4	287.4
35°	2379.0	1572.0	479.8	300.7	267.5	252.1	245.4	252.1	265.3	278.6	278.6
37.5°	2456.4	1587.5	459.9	287.4	254.3	238.8	234.4	243.2	258.7	272.0	274.2
40°	2538.2	1600.8	437.8	274.2	245.4	227.7	225.5	234.4	254.3	267.5	269.7
42.5°	2639.9	1627.3	411.2	263.1	236.6	214.5	216.7	223.3	243.2	263.1	265.3
45°	2838.9	1711.3	384.7	252.1	225.5	207.8	203.4	207.8	229.9	252.1	256.5
47.5°	3212.6	1901.5	356.0	241.0	214.5	203.4	185.7	190.1	210.0	234.4	236.6
50°	3928.9	2306.1	340.5	229.9	205.6	187.9	168.0	168.0	183.5	205.6	205.6
52.5°	5045.5	3031.3	349.3	221.1	194.6	172.5	152.6	150.3	159.2	174.7	174.7
55°	6250.5	3827.2	382.5	212.3	181.3	163.6	141.5	130.4	137.1	145.9	145.9
57.5°	7205.7	4227.4	473.2	207.8	165.8	157.0	128.2	112.8	119.4	128.2	128.2
60°	7625.7	3993.1	574.9	212.3	154.8	145.9	115.0	99.5	110.6	119.4	121.6
62.5°	7285.2	3287.8	616.9	201.2	139.3	130.4	112.8	92.9	106.1	112.8	115.0
65°	6549.0	2498.4	482.0	174.7	128.2	112.8	101.7	88.4	99.5	106.1	106.1
66°	6199.6	2177.8	411.2	161.4	123.8	106.1	97.3	88.4	97.3	101.7	103.9
67.5°	5658.0	1717.9	305.1	141.5	115.0	97.3	90.7	84.0	92.9	97.3	97.3
70°	4424.2	1023.7	183.5	110.6	99.5	86.2	81.8	77.4	84.0	86.2	86.2
72.5°	2770.4	486.4	117.2	81.8	84.0	81.8	68.5	73.0	75.2	77.4	77.4
75°	1342.1	192.4	79.6	59.7	68.5	77.4	55.3	64.1	66.3	70.8	68.5
77.5°	373.7	92.9	50.9	44.2	59.7	59.7	42.0	50.9	59.7	75.2	68.5
80°	108.3	59.7	33.2	33.2	42.0	42.0	28.7	35.4	39.8	44.2	46.4
82.5°	75.2	39.8	22.1	24.3	24.3	26.5	17.7	17.7	22.1	22.1	24.3
85°	59.7	17.7	13.3	15.5	11.1	13.3	8.8	8.8	11.1	8.8	8.8
87.5°	24.3	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)