

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: P1210332

Luminaire Tested: **ARCH2-90-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210332
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: ARCH2-90-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8681 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 93.7
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

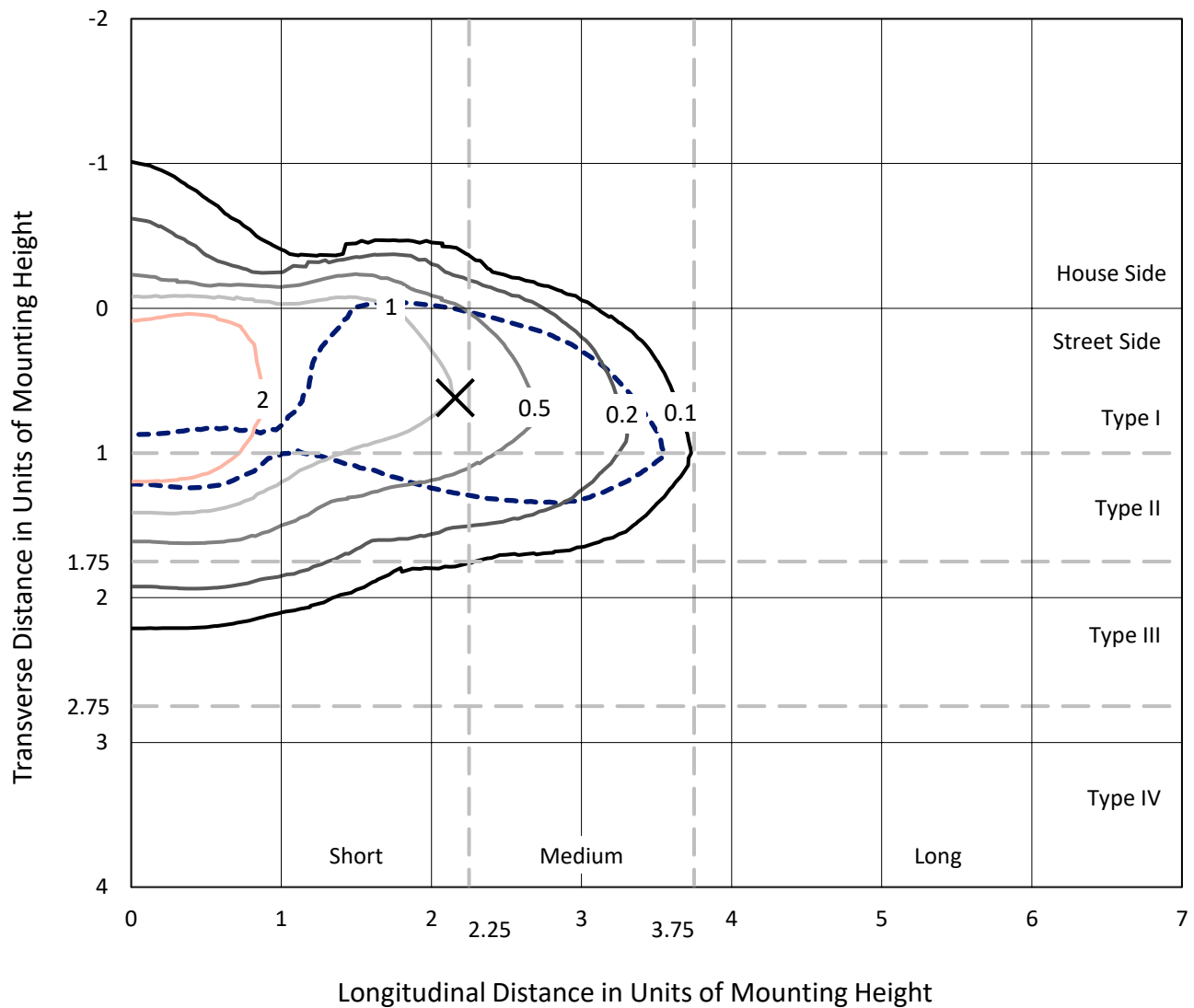


REPORT NUMBER: P1210332

CATALOG NUMBER: ARCH2-90-730-U-T2RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

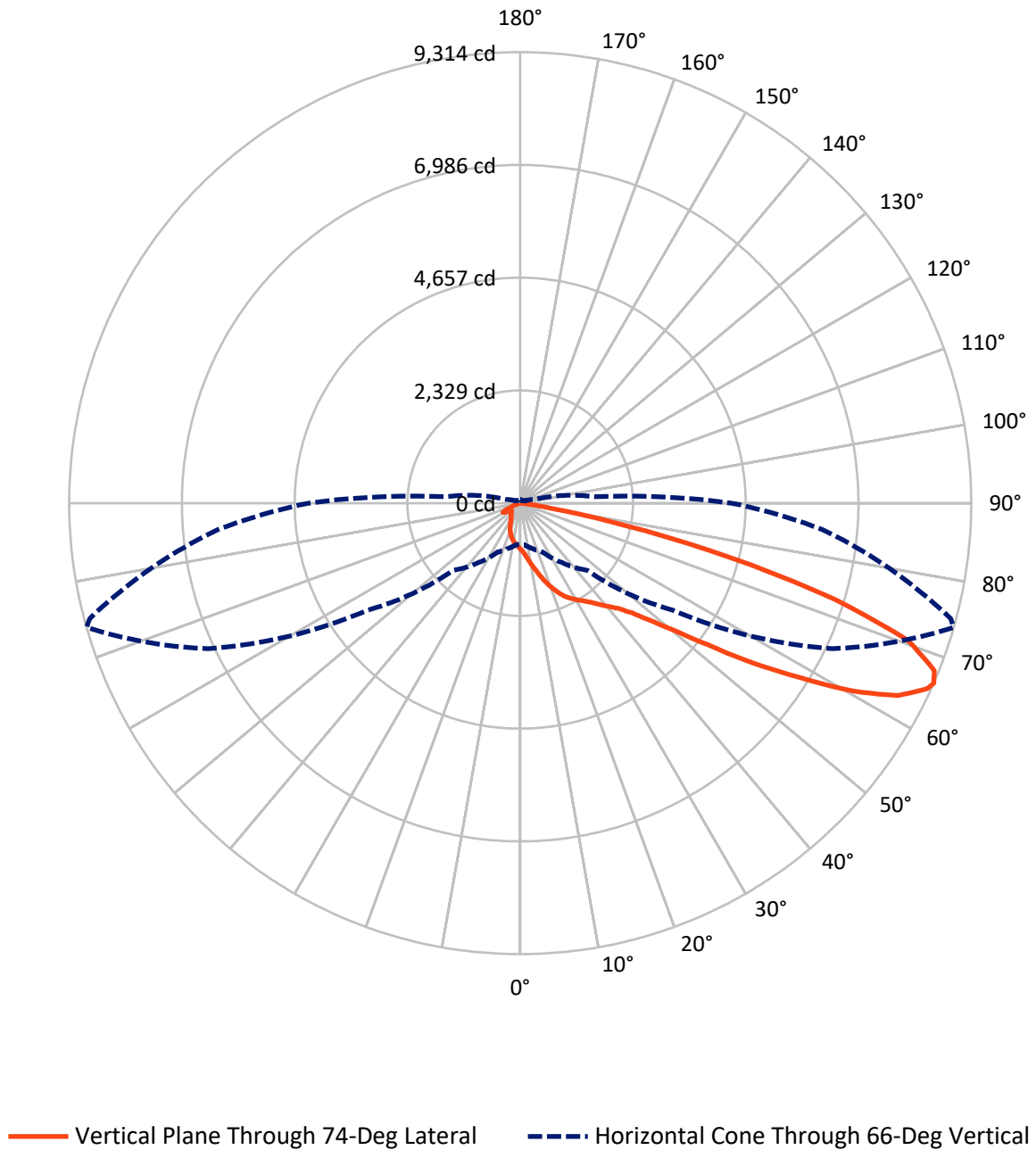
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type II - Short - N/A

REPORT NUMBER: P1210332
CATALOG NUMBER: ARCH2-90-730-U-T2RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1210332

CATALOG NUMBER: ARCH2-90-730-U-T2RE-HSS

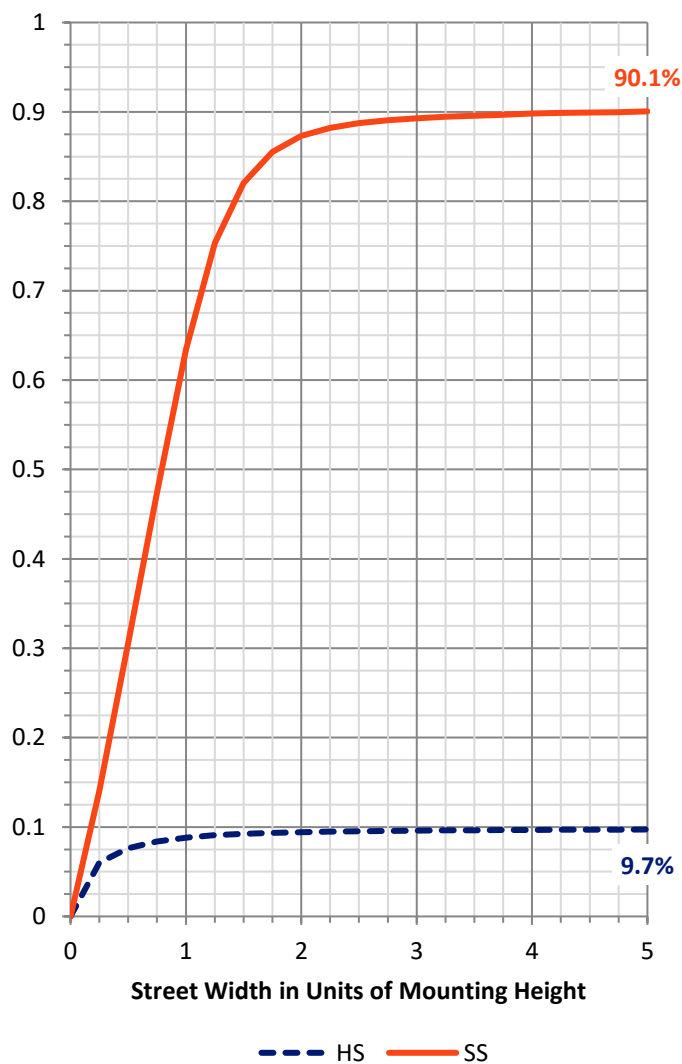
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	851.0	0.0	851.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	7830.0	0.0	7830.0
	% Fixture	90.2	0.0	90.2
Total	Lumens	8681.0	0.0	8681.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	1.1
10°-20°	296.5	3.4
20°-30°	565.9	6.5
30°-40°	991.9	11.4
40°-50°	1700.8	19.6
50°-60°	2212.0	25.5
60°-70°	2002.4	23.1
70°-80°	772.6	8.9
80°-90°	46.5	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°	8681.0	100.0
0°-180°	8681.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210332

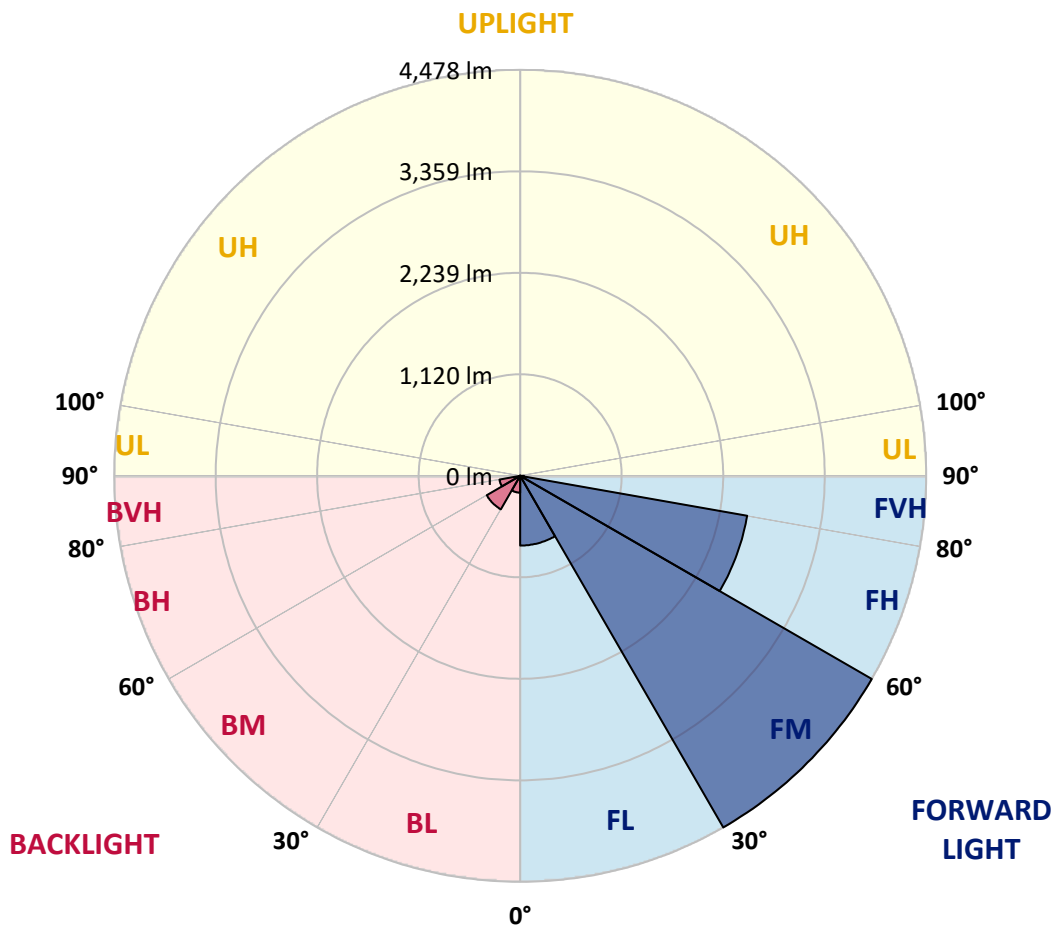
CATALOG NUMBER: ARCH2-90-730-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	769.3	8.9			
FM	(30°-60°)	4478.1	51.6			
FH	(60°-80°)	2542.4	29.3			G2/5000
FVH	(80°-90°)	40.3	0.5			G1/100
BL	(0°-30°)	185.6	2.1	B1/500		
BM	(30°-60°)	426.5	4.9	B1/1000		
BH	(60°-80°)	232.7	2.7	B1/500		G1/500
BVH	(80°-90°)	6.2	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



REPORT NUMBER: P1210332

CATALOG NUMBER: ARCH2-90-730-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6
2.5°	1137.8	1128.4	1111.3	1109.7	1095.7	1078.5	1048.9	1017.7	995.9	992.8	966.3
5°	1362.2	1357.5	1340.4	1329.5	1303.0	1262.4	1193.9	1125.3	1067.6	1061.4	1002.2
7.5°	1421.4	1424.5	1427.6	1438.6	1429.2	1410.5	1359.1	1262.4	1172.0	1158.0	1055.1
10°	1430.8	1427.6	1427.6	1441.7	1468.2	1494.7	1488.4	1405.8	1288.9	1271.8	1128.4
12.5°	1532.1	1536.7	1525.8	1519.6	1514.9	1529.0	1575.7	1539.9	1412.1	1398.0	1217.2
15°	1663.0	1661.4	1645.8	1645.8	1631.8	1608.4	1638.0	1664.5	1560.1	1543.0	1318.5
17.5°	1758.1	1764.3	1762.7	1772.1	1767.4	1736.2	1720.7	1775.2	1712.9	1691.0	1433.9
20°	1834.4	1851.6	1857.8	1887.4	1901.4	1879.6	1839.1	1873.4	1859.4	1839.1	1550.8
22.5°	1915.5	1929.5	1940.4	1991.8	2030.8	2026.1	1974.7	1966.9	2001.2	1982.5	1666.1
25°	1996.5	2002.8	2035.5	2097.8	2160.2	2175.8	2122.8	2062.0	2129.0	2111.9	1769.0
27.5°	2085.4	2088.5	2127.4	2203.8	2291.1	2323.8	2281.7	2169.5	2227.2	2227.2	1862.5
30°	2247.4	2278.6	2294.2	2362.8	2439.2	2484.3	2434.5	2283.3	2314.5	2328.5	1960.7
32.5°	2596.6	2601.2	2596.6	2626.2	2641.8	2668.3	2610.6	2411.1	2403.3	2418.9	2057.3
35°	3129.6	3110.9	3061.0	3017.4	2927.0	2877.1	2802.3	2574.7	2512.4	2534.2	2152.4
37.5°	3776.4	3749.9	3636.1	3502.1	3308.8	3109.3	3015.8	2774.2	2651.1	2679.2	2255.2
40°	4393.6	4376.4	4240.8	4075.6	3745.2	3403.9	3206.0	2942.6	2805.4	2816.3	2359.7
42.5°	4901.7	4898.6	4784.8	4611.8	4187.9	3721.8	3430.4	3107.8	2967.5	2984.6	2468.8
45°	5286.6	5257.0	5172.9	5048.2	4616.5	4052.3	3701.6	3358.7	3227.8	3248.0	2632.4
47.5°	5286.6	5291.3	5345.9	5333.4	4915.7	4362.4	3997.7	3675.1	3612.7	3631.5	2902.0
50°	4856.5	4900.1	5143.3	5347.4	5071.6	4604.0	4317.2	4071.0	4134.9	4162.9	3372.7
52.5°	4005.5	4078.8	4501.1	4967.1	4956.2	4725.6	4647.6	4574.4	4861.2	4911.0	4067.8
55°	3043.9	3092.2	3642.4	4254.9	4454.4	4625.8	4936.0	5213.4	5822.8	5811.9	4773.9
57.5°	2273.9	2319.1	2792.9	3472.5	3735.9	4194.1	5084.0	5944.4	6776.6	6818.7	5436.3
60°	1672.3	1706.6	2110.3	2668.3	3048.5	3533.3	5024.8	6664.4	7875.4	7827.1	6020.7
62.5°	1237.5	1256.2	1547.7	1910.8	2415.8	2878.7	4652.3	7156.9	8752.9	8654.7	6346.5
65°	957.0	963.2	1114.4	1307.6	1756.5	2238.1	4097.5	7231.7	9237.6	9133.2	6340.2
66°	852.5	857.2	967.9	1117.5	1494.7	1959.1	3854.3	7111.7	9314.0	9203.3	6262.3
67.5°	715.4	712.3	777.7	875.9	1122.2	1511.8	3422.6	6761.0	9223.6	9167.5	6012.9
70°	529.9	531.5	564.2	587.6	656.2	836.9	2471.9	5864.9	8500.4	8497.3	5328.7
72.5°	392.8	397.4	422.4	427.0	409.9	453.5	1424.5	4664.8	6800.0	6801.6	3983.7
75°	294.6	302.4	310.2	313.3	297.7	286.8	643.7	3138.9	4473.1	4440.3	2255.2
77.5°	224.4	227.6	233.8	229.1	226.0	197.9	268.1	1530.5	2208.5	2012.1	731.0
80°	163.6	163.6	169.9	163.6	162.1	141.8	146.5	490.9	648.4	539.3	157.4
82.5°	102.9	101.3	106.0	104.4	101.3	90.4	85.7	137.2	149.6	134.0	76.4
85°	57.7	56.1	54.5	53.0	48.3	40.5	46.8	51.4	68.6	70.1	54.5
87.5°	20.3	20.3	18.7	17.1	14.0	14.0	17.1	17.1	24.9	24.9	28.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1210332

CATALOG NUMBER: ARCH2-90-730-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6
2.5°	953.8	936.7	911.8	879.0	855.7	832.3	807.3	793.3	773.0	768.4	774.6
5°	971.0	939.8	877.5	808.9	749.7	696.7	646.8	617.2	587.6	576.7	581.3
7.5°	1006.8	953.8	847.9	737.2	639.0	559.5	500.3	466.0	439.5	428.6	431.7
10°	1059.8	978.8	819.8	656.2	529.9	445.7	395.9	374.1	358.5	352.2	353.8
12.5°	1123.7	1014.6	784.0	575.1	436.4	363.1	339.8	335.1	332.0	328.9	330.4
15°	1195.4	1045.8	741.9	495.6	363.1	322.6	314.8	313.3	311.7	311.7	311.7
17.5°	1270.2	1073.8	695.1	420.8	316.4	297.7	293.0	293.0	293.0	294.6	294.6
20°	1340.4	1095.7	640.6	353.8	289.9	274.3	271.2	271.2	272.7	274.3	274.3
22.5°	1408.9	1105.0	576.7	307.0	268.1	254.0	249.4	249.4	249.4	250.9	250.9
25°	1468.2	1105.0	512.8	277.4	249.4	235.3	229.1	227.6	229.1	229.1	229.1
27.5°	1518.0	1100.3	450.4	257.2	230.7	216.6	210.4	208.8	212.0	213.5	213.5
30°	1571.0	1094.1	400.6	238.5	215.1	201.1	194.8	194.8	199.5	205.7	205.7
32.5°	1622.5	1098.8	361.6	222.9	199.5	188.6	182.4	183.9	193.3	202.6	202.6
35°	1677.0	1108.1	338.2	212.0	188.6	177.7	173.0	177.7	187.0	196.4	196.4
37.5°	1731.6	1119.0	324.2	202.6	179.2	168.3	165.2	171.4	182.4	191.7	193.3
40°	1789.2	1128.4	308.6	193.3	173.0	160.5	159.0	165.2	179.2	188.6	190.1
42.5°	1860.9	1147.1	289.9	185.5	166.8	151.2	152.7	157.4	171.4	185.5	187.0
45°	2001.2	1206.3	271.2	177.7	159.0	146.5	143.4	146.5	162.1	177.7	180.8
47.5°	2264.6	1340.4	250.9	169.9	151.2	143.4	130.9	134.0	148.1	165.2	166.8
50°	2769.6	1625.6	240.0	162.1	144.9	132.5	118.5	118.5	129.4	144.9	144.9
52.5°	3556.6	2136.8	246.3	155.9	137.2	121.6	107.5	106.0	112.2	123.1	123.1
55°	4406.1	2697.9	269.6	149.6	127.8	115.3	99.7	92.0	96.6	102.9	102.9
57.5°	5079.4	2980.0	333.5	146.5	116.9	110.7	90.4	79.5	84.2	90.4	90.4
60°	5375.5	2814.8	405.2	149.6	109.1	102.9	81.0	70.1	77.9	84.2	85.7
62.5°	5135.5	2317.6	434.8	141.8	98.2	92.0	79.5	65.5	74.8	79.5	81.0
65°	4616.5	1761.2	339.8	123.1	90.4	79.5	71.7	62.3	70.1	74.8	74.8
66°	4370.2	1535.2	289.9	113.8	87.3	74.8	68.6	62.3	68.6	71.7	73.3
67.5°	3988.4	1211.0	215.1	99.7	81.0	68.6	63.9	59.2	65.5	68.6	68.6
70°	3118.7	721.6	129.4	77.9	70.1	60.8	57.7	54.5	59.2	60.8	60.8
72.5°	1952.9	342.9	82.6	57.7	59.2	57.7	48.3	51.4	53.0	54.5	54.5
75°	946.0	135.6	56.1	42.1	48.3	54.5	39.0	45.2	46.8	49.9	48.3
77.5°	263.4	65.5	35.8	31.2	42.1	42.1	29.6	35.8	42.1	53.0	48.3
80°	76.4	42.1	23.4	23.4	29.6	29.6	20.3	24.9	28.1	31.2	32.7
82.5°	53.0	28.1	15.6	17.1	17.1	18.7	12.5	12.5	15.6	15.6	17.1
85°	42.1	12.5	9.4	10.9	7.8	9.4	6.2	6.2	7.8	6.2	6.2
87.5°	17.1	6.2	6.2	6.2	4.7	4.7	3.1	1.6	1.6	1.6	1.6
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)