

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: P799556

Luminaire Tested: **ARCH2-30-750-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-30-750-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

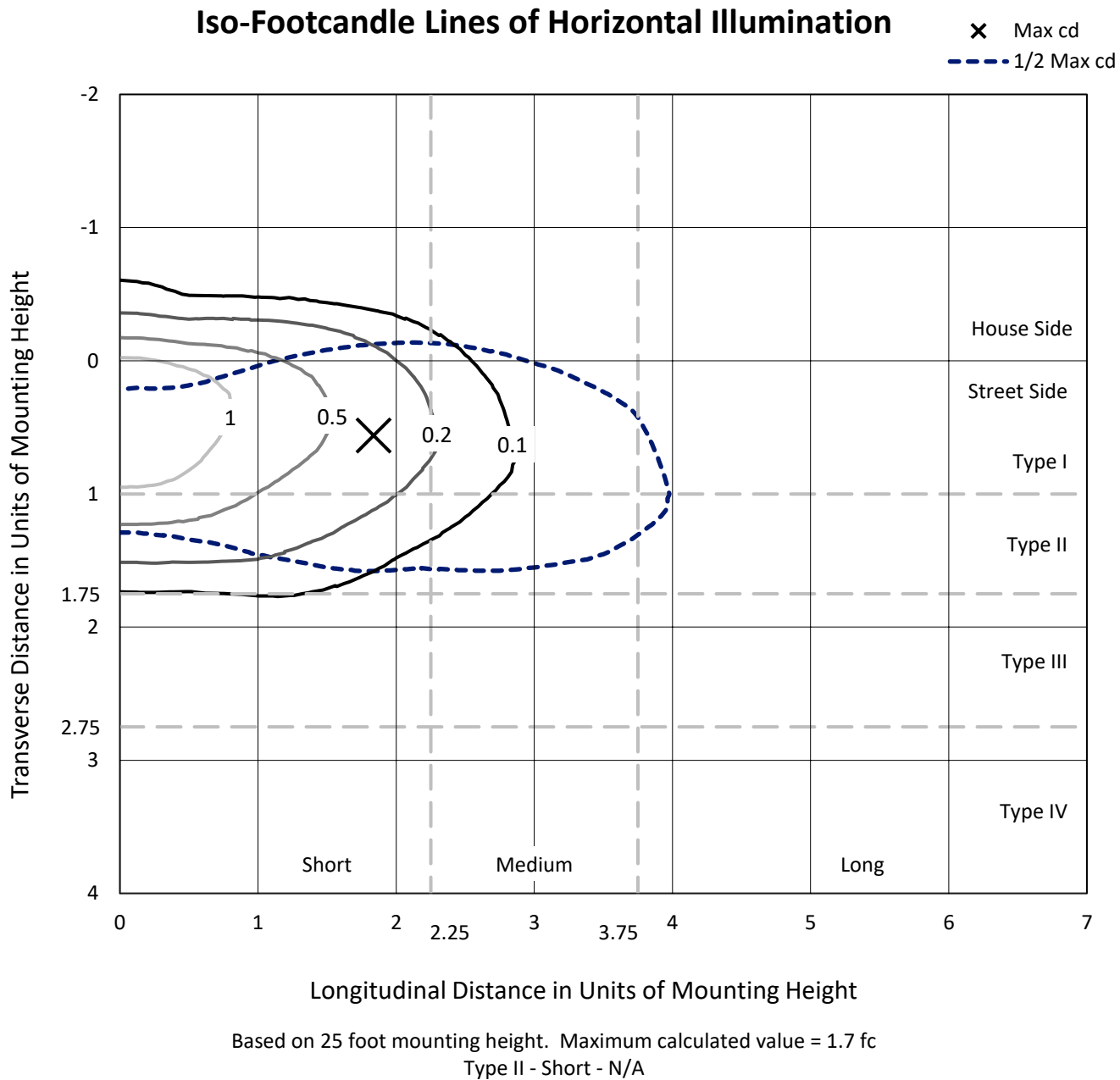
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3590 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 34.4
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

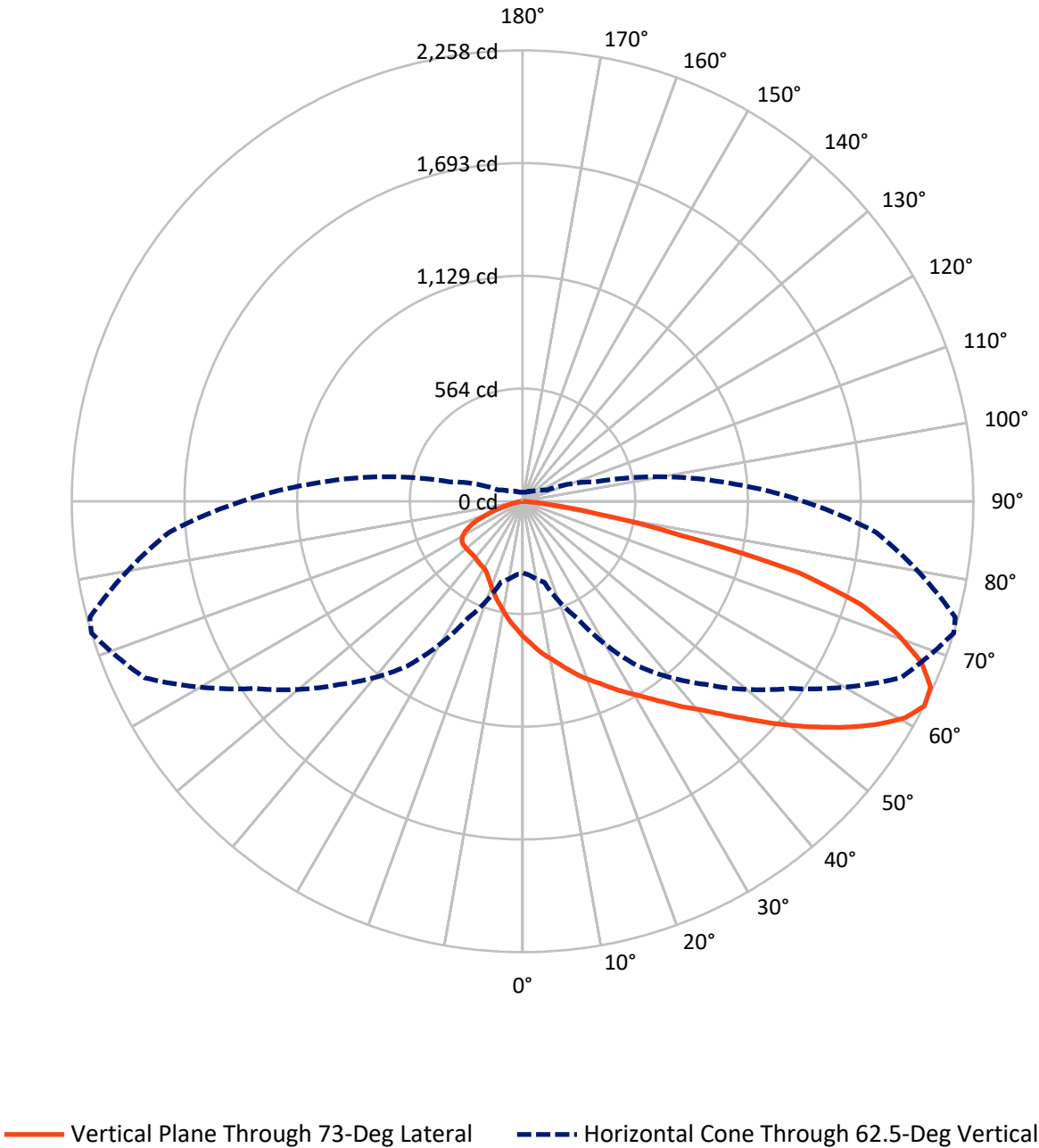


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Luminous Intensity Polar Plot



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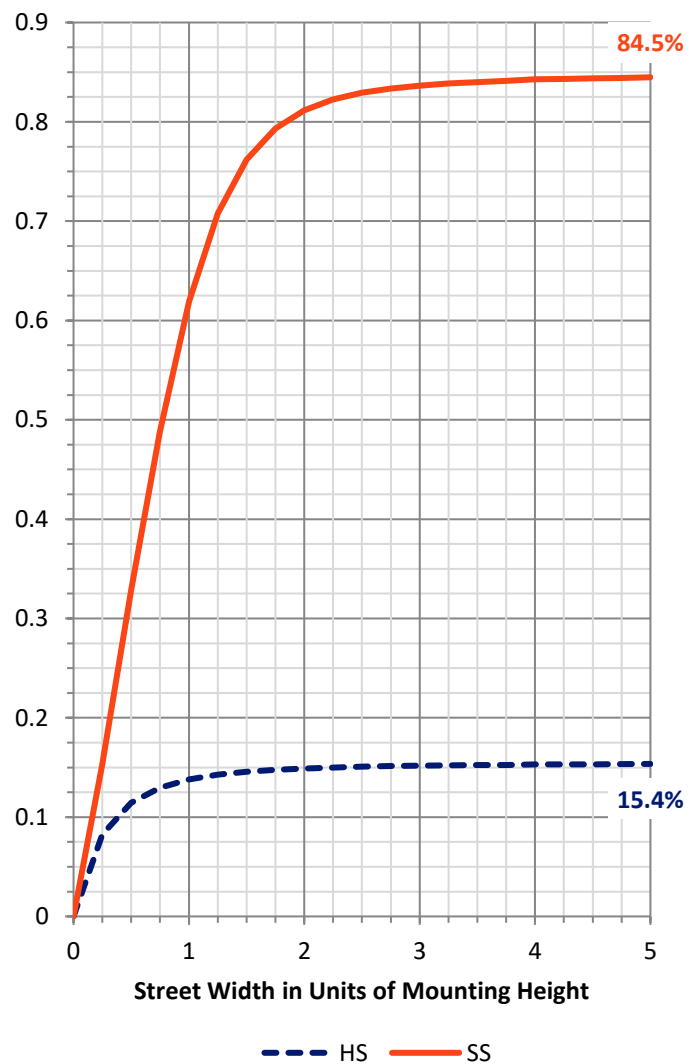
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	556.5	0.0	556.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	3033.5	0.0	3033.5
	% Fixture	84.5	0.0	84.5
Total	Lumens	3590.0	0.0	3590.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	1.8
10°-20°	198.2	5.5
20°-30°	329.8	9.2
30°-40°	497.7	13.9
40°-50°	695.6	19.4
50°-60°	768.4	21.4
60°-70°	669.4	18.6
70°-80°	338.1	9.4
80°-90°	27.1	0.8
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°	3590.0	100.0
0°-180°	3590.0	100.0

Coefficient of Utilization



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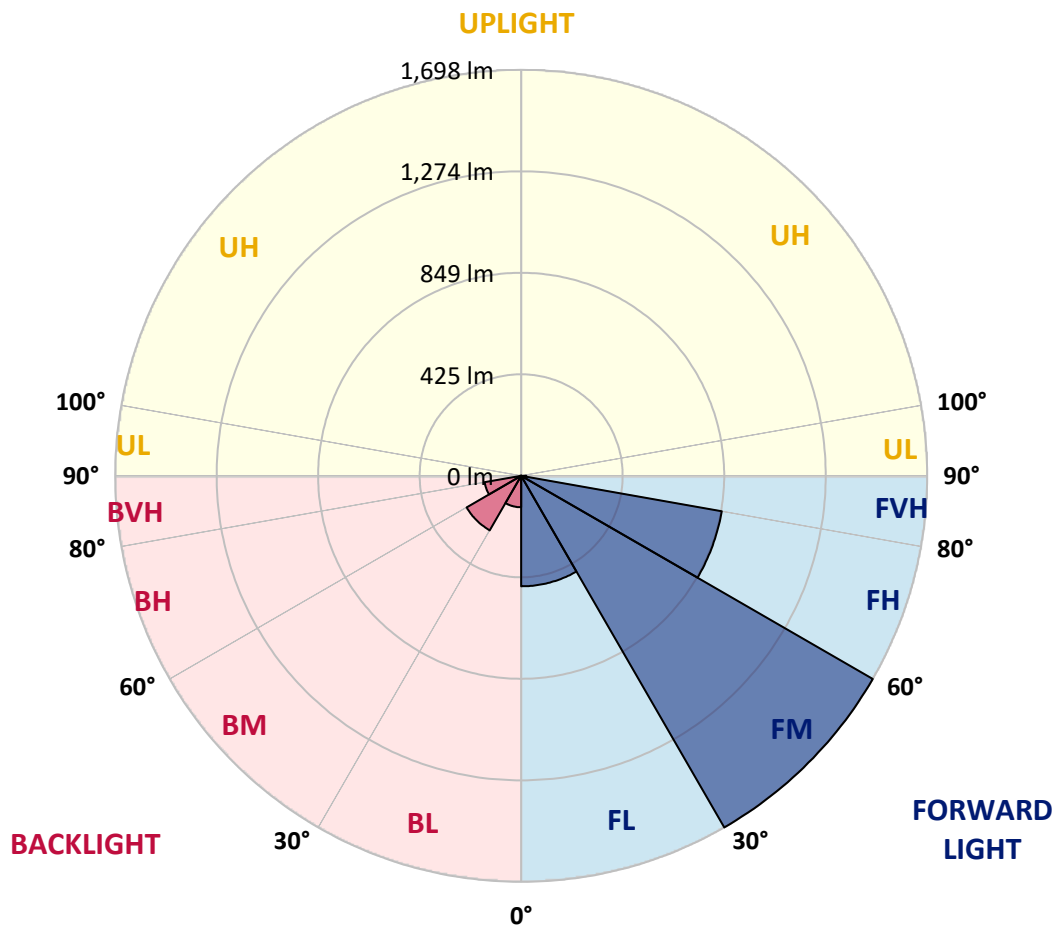
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	462.1	12.9			
FM	(30°-60°)	1698.2	47.3			
FH	(60°-80°)	852.2	23.7			G1/1800
FVH	(80°-90°)	21.0	0.6			G1/100
BL	(0°-30°)	131.5	3.7	B1/500		
BM	(30°-60°)	263.5	7.3	B1/1000		
BH	(60°-80°)	155.3	4.3	B1/500		G1/500
BVH	(80°-90°)	6.1	0.2			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°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8
2.5°	773.6	782.2	777.6	780.7	765.0	754.9	743.1	720.5	707.9	706.4	691.5
5°	887.1	896.5	888.6	886.3	858.9	835.4	808.8	769.0	742.4	737.7	704.8
7.5°	1000.5	1009.1	999.7	992.7	955.9	914.4	875.3	816.7	775.2	767.4	715.8
10°	1080.3	1088.1	1081.1	1074.0	1035.7	993.5	937.9	861.3	804.9	792.4	722.8
12.5°	1140.5	1145.2	1142.1	1135.8	1099.8	1054.5	1001.3	911.3	838.6	822.9	733.7
15°	1189.8	1197.6	1193.7	1189.0	1154.6	1109.2	1058.4	963.7	877.7	858.1	750.2
17.5°	1222.7	1228.1	1228.9	1228.9	1198.4	1153.8	1104.5	1011.4	916.8	891.8	765.8
20°	1237.5	1243.8	1247.7	1253.9	1228.9	1190.6	1140.5	1052.1	953.6	925.4	780.7
22.5°	1244.6	1250.0	1260.2	1274.3	1253.9	1221.9	1175.7	1089.7	990.3	960.6	797.9
25°	1250.0	1257.1	1271.9	1298.5	1284.5	1257.1	1217.2	1132.7	1034.1	1003.6	822.9
27.5°	1264.9	1273.5	1287.6	1319.7	1302.4	1289.1	1261.0	1178.8	1080.3	1049.0	853.4
30°	1316.5	1323.6	1322.8	1343.1	1322.0	1318.1	1298.5	1223.4	1124.9	1093.6	889.4
32.5°	1410.4	1417.4	1400.2	1392.4	1346.2	1347.0	1339.2	1271.2	1178.1	1146.0	930.9
35°	1511.3	1519.1	1496.4	1483.1	1405.7	1383.0	1386.9	1330.6	1237.5	1205.4	982.5
37.5°	1601.3	1610.7	1591.1	1571.5	1493.3	1440.9	1440.1	1397.1	1305.6	1272.7	1039.6
40°	1650.5	1661.5	1673.2	1662.3	1580.1	1522.3	1497.2	1465.2	1372.8	1339.2	1101.4
42.5°	1674.0	1704.5	1725.6	1718.6	1651.3	1592.7	1562.9	1536.3	1455.0	1422.1	1174.9
45°	1608.3	1609.1	1653.7	1692.0	1679.5	1640.4	1634.9	1616.1	1548.9	1517.6	1257.9
47.5°	1526.2	1519.9	1551.2	1619.3	1654.5	1664.6	1696.7	1704.5	1656.0	1624.7	1342.3
50°	1329.0	1333.0	1434.6	1532.4	1601.3	1667.0	1740.5	1795.3	1766.3	1736.6	1431.5
52.5°	1081.1	1090.5	1207.0	1422.1	1530.9	1643.5	1766.3	1886.0	1879.0	1850.8	1520.7
55°	866.7	881.6	1005.2	1238.3	1440.9	1591.1	1777.3	1968.9	1995.5	1969.7	1608.3
57.5°	662.6	678.2	782.2	1021.6	1325.9	1505.8	1769.4	2041.7	2104.2	2087.8	1688.9
60°	499.1	514.7	581.2	828.4	1182.0	1410.4	1730.3	2089.4	2202.0	2184.8	1747.5
62.5°	357.5	370.0	419.3	644.6	1006.8	1297.0	1634.1	2090.2	2257.6	2243.5	1775.7
65°	257.4	257.4	297.3	460.0	842.5	1160.9	1488.6	1994.0	2245.8	2241.9	1756.1
67.5°	185.4	187.0	219.0	321.5	672.0	995.8	1300.1	1822.6	2155.1	2174.7	1685.7
70°	131.4	135.3	150.2	224.5	507.7	786.2	1098.3	1598.1	1991.6	2026.0	1549.6
72.5°	101.7	104.0	114.2	156.4	370.8	584.3	875.3	1347.8	1773.4	1812.5	1364.2
75°	78.2	80.6	88.4	115.0	266.0	409.9	621.9	1045.9	1430.0	1499.6	1095.9
77.5°	57.1	60.2	65.7	83.7	154.9	260.5	377.0	588.3	789.3	822.1	574.2
80°	26.6	30.5	38.3	54.0	83.7	122.8	133.8	226.9	379.4	396.6	311.3
82.5°	14.9	18.8	21.9	32.9	42.2	43.8	45.4	57.1	143.2	158.0	130.6
85°	7.0	9.4	10.2	14.1	14.1	12.5	14.9	11.0	23.5	28.2	27.4
87.5°	0.0	0.8	1.6	3.9	3.1	2.3	2.3	2.3	2.3	3.1	2.3
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°	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8
2.5°	684.5	674.3	650.8	630.5	617.2	605.5	589.8	582.8	570.3	572.6	565.6
5°	688.4	669.6	628.1	589.8	561.7	536.6	509.2	493.6	476.4	474.8	469.3
7.5°	690.7	661.8	602.3	548.4	505.3	467.0	430.2	409.9	388.8	384.1	379.4
10°	688.4	650.0	575.7	505.3	448.2	400.5	359.1	333.2	311.3	305.9	301.2
12.5°	690.7	643.8	550.7	465.4	397.4	343.4	296.5	269.9	249.5	244.1	240.9
15°	696.2	639.9	529.6	429.5	352.0	291.8	245.6	222.9	206.5	201.0	199.5
17.5°	700.9	636.0	506.9	394.3	306.6	246.4	206.5	187.7	173.7	168.2	166.6
20°	707.2	630.5	484.2	360.6	266.7	210.4	175.2	158.8	147.8	143.9	143.2
22.5°	712.6	626.6	463.1	327.0	230.0	181.5	151.8	138.5	130.6	126.7	126.7
25°	726.7	628.1	445.1	295.7	202.6	158.8	133.8	123.6	117.3	115.0	115.0
27.5°	743.1	634.4	431.0	269.1	179.1	141.6	121.2	112.6	109.5	106.4	107.2
30°	766.6	646.9	421.6	247.2	161.9	128.3	111.1	104.8	101.7	100.9	100.9
32.5°	796.3	667.3	420.8	233.1	149.4	118.1	104.0	98.6	97.0	96.2	96.2
35°	831.5	685.2	416.2	226.9	141.6	111.1	98.6	94.7	93.9	93.9	93.9
37.5°	873.8	715.0	413.0	218.2	137.7	107.2	94.7	91.5	91.5	91.5	91.5
40°	917.6	739.2	408.3	210.4	136.1	104.8	92.3	88.4	88.4	88.4	88.4
42.5°	970.0	774.4	406.8	206.5	133.8	103.3	89.2	84.5	85.3	85.3	86.0
45°	1033.4	814.3	406.0	202.6	133.0	101.7	86.0	80.6	81.4	80.6	80.6
47.5°	1097.5	860.5	408.3	200.3	132.2	100.1	83.7	76.7	76.7	75.9	75.9
50°	1164.8	902.7	409.9	197.9	130.6	97.0	79.8	73.5	72.0	70.4	71.2
52.5°	1228.1	941.8	410.7	194.0	125.9	92.3	76.7	69.6	67.3	64.9	65.7
55°	1291.5	979.4	412.2	189.3	119.7	87.6	72.7	65.7	62.6	59.5	59.5
57.5°	1348.6	1012.2	408.3	177.6	112.6	82.9	68.8	61.0	56.3	53.2	53.2
60°	1387.7	1035.7	396.6	160.4	103.3	77.4	64.9	56.3	50.8	48.5	48.5
62.5°	1406.5	1039.6	375.5	132.2	91.5	72.0	60.2	51.6	46.9	45.4	45.4
65°	1388.5	1022.4	342.6	99.3	79.0	65.7	55.5	47.7	43.0	39.1	39.1
67.5°	1325.9	973.9	297.3	75.1	67.3	59.5	50.8	43.8	38.3	35.2	35.2
70°	1200.0	873.0	230.0	60.2	57.1	51.6	46.2	39.1	34.4	30.5	30.5
72.5°	1034.9	740.0	161.9	48.5	48.5	43.8	39.1	34.4	29.7	26.6	26.6
75°	794.0	547.6	108.7	39.1	39.9	36.8	32.1	28.2	25.0	22.7	22.7
77.5°	433.4	270.7	66.5	28.9	29.7	28.2	25.0	22.7	21.1	18.8	18.8
80°	210.4	118.9	38.3	20.3	21.1	20.3	18.8	16.4	16.4	14.9	14.9
82.5°	88.4	44.6	20.3	14.1	14.1	12.5	11.7	11.7	11.7	11.0	11.0
85°	21.9	8.6	8.6	7.8	7.8	7.8	7.0	7.0	7.0	5.5	6.3
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	2.3	0.8	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)