

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: P799638

Luminaire Tested: **ARCH2-40-730-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-40-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

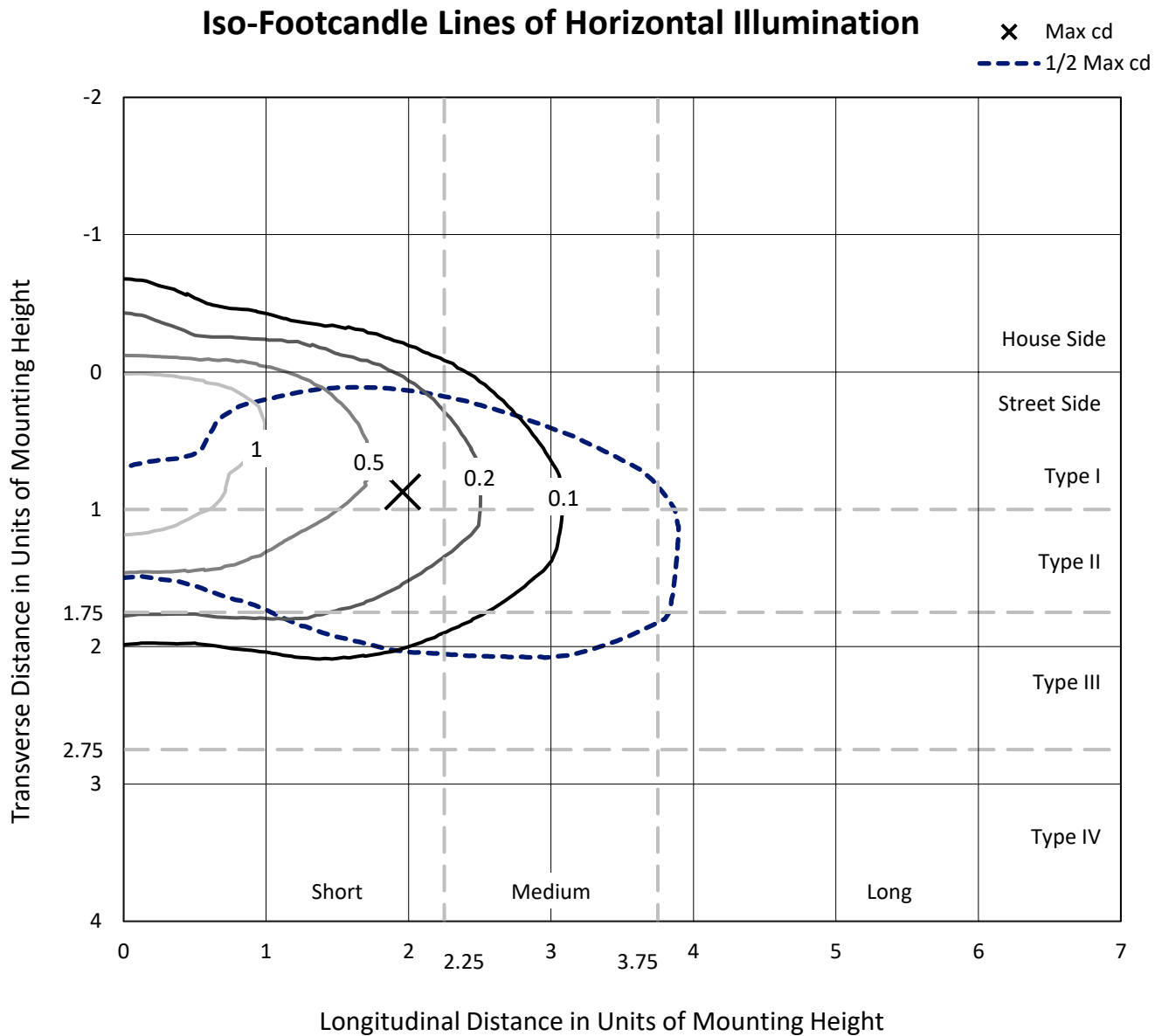
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4475 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44.1
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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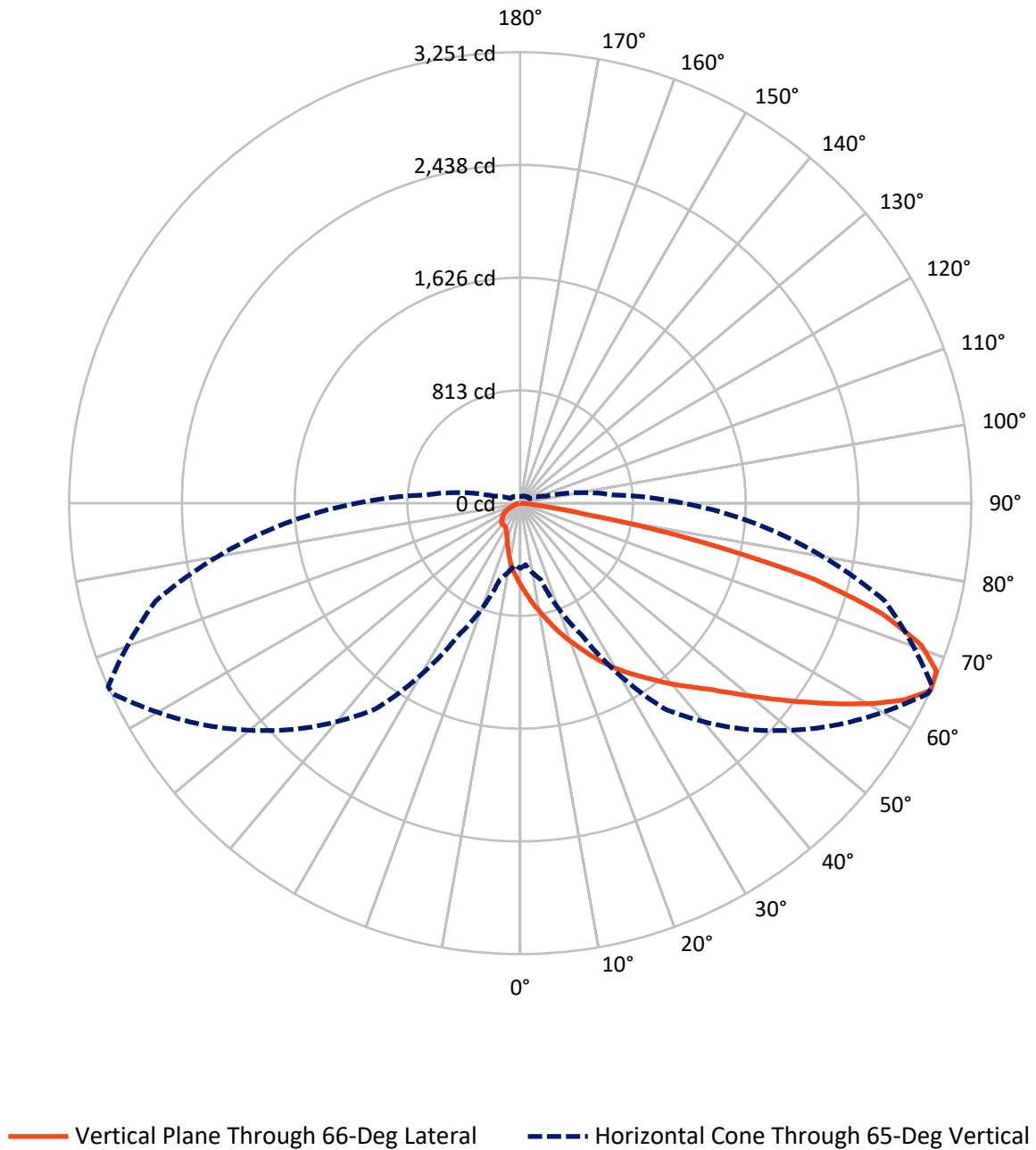


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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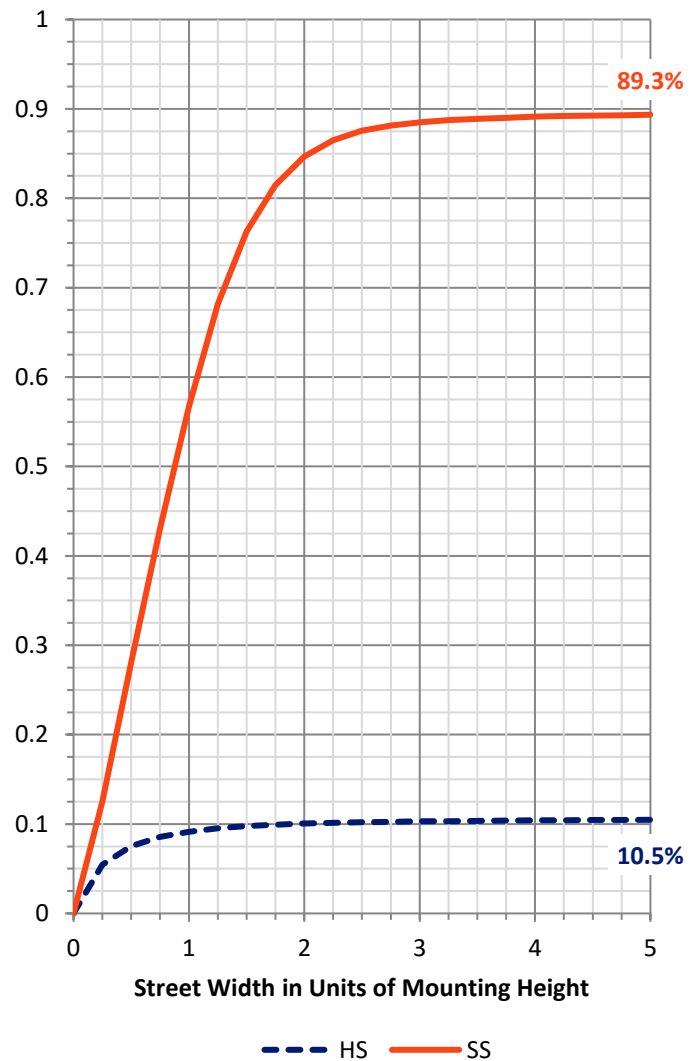
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	473.3	0.0	473.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	4001.7	0.0	4001.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	4475.0	0.0	4475.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	1.3
10°-20°	190.5	4.3
20°-30°	344.7	7.7
30°-40°	539.0	12.0
40°-50°	817.7	18.3
50°-60°	1038.9	23.2
60°-70°	970.8	21.7
70°-80°	482.5	10.8
80°-90°	32.4	0.7
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°	4475.0	100.0
0°-180°	4475.0	100.0

Coefficient of Utilization



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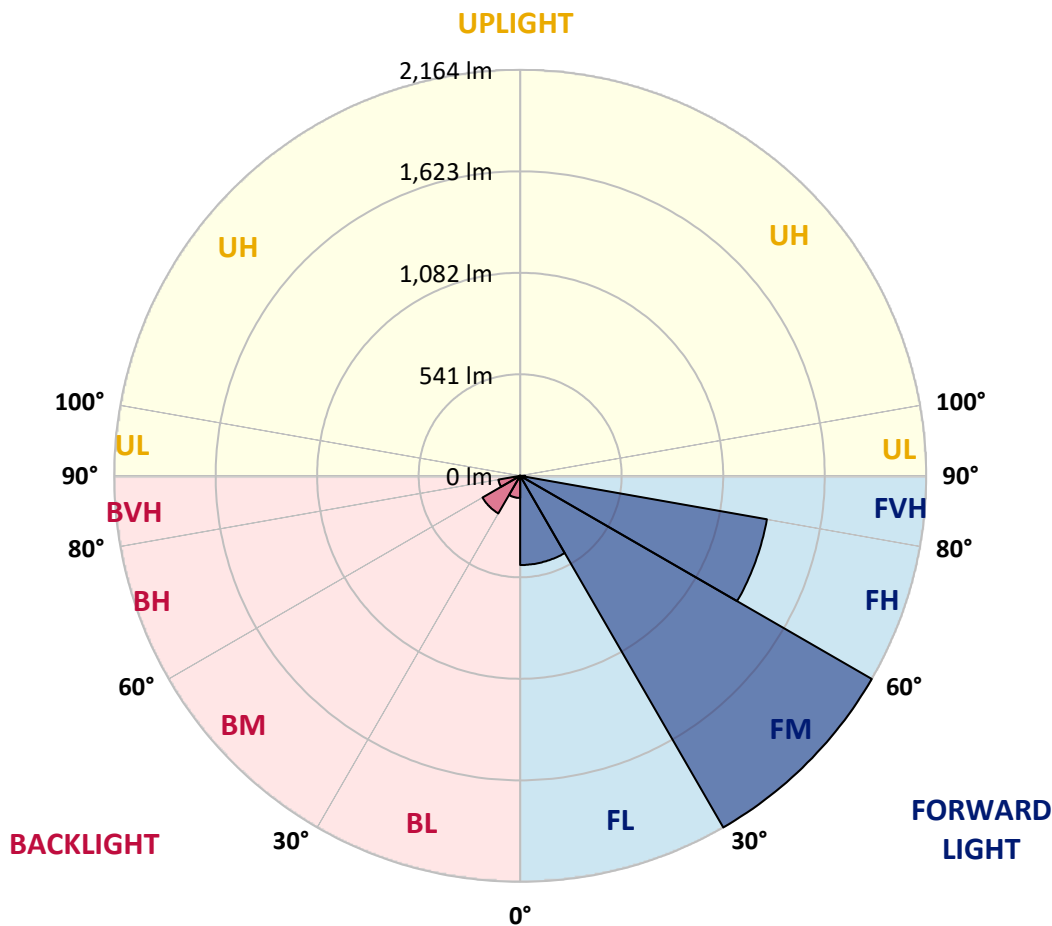
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	475.5	10.6			
FM	(30°-60°)	2164.2	48.4			
FH	(60°-80°)	1335.4	29.8			G1/1800
FVH	(80°-90°)	26.7	0.6			G1/100
BL	(0°-30°)	118.2	2.6	B1/500		
BM	(30°-60°)	231.5	5.2	B1/1000		
BH	(60°-80°)	117.9	2.6	B1/500		G1/500
BVH	(80°-90°)	5.7	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	592.2	592.2	592.2	592.2	592.2	592.2	592.2	592.2	592.2	592.2	592.2
2.5°	691.7	697.4	700.2	701.1	679.5	670.1	660.8	639.2	634.5	622.3	606.3
5°	813.7	821.3	819.4	815.6	789.3	759.3	734.9	694.5	688.0	658.9	623.2
7.5°	933.9	940.5	938.6	924.5	895.4	853.2	812.8	753.7	744.3	697.4	640.1
10°	1034.3	1039.9	1039.0	1024.9	990.2	938.6	889.8	810.9	799.7	733.0	654.2
12.5°	1116.9	1124.4	1123.5	1114.1	1083.1	1026.8	971.4	876.6	862.6	776.2	673.9
15°	1181.7	1191.1	1191.1	1187.3	1165.7	1118.8	1055.9	948.9	932.0	825.9	698.3
17.5°	1221.1	1228.6	1235.2	1241.7	1226.7	1191.1	1133.8	1021.2	1003.3	874.8	723.6
20°	1241.7	1249.2	1253.9	1268.0	1270.8	1253.0	1207.9	1092.5	1073.7	930.1	752.7
22.5°	1275.5	1282.1	1283.0	1295.2	1300.9	1305.6	1277.4	1162.9	1147.9	991.1	785.6
25°	1331.8	1339.3	1336.5	1342.2	1343.1	1348.7	1345.9	1243.6	1228.6	1060.6	825.0
27.5°	1404.1	1413.5	1411.6	1406.0	1397.5	1392.8	1405.0	1325.3	1311.2	1130.0	865.4
30°	1482.0	1493.3	1490.5	1479.2	1456.7	1437.0	1453.9	1402.2	1389.1	1201.4	910.4
32.5°	1560.9	1574.0	1573.1	1554.3	1515.8	1482.0	1507.4	1474.5	1465.1	1278.3	959.2
35°	1612.5	1629.4	1627.5	1616.2	1566.5	1537.4	1568.4	1548.7	1542.1	1372.2	1029.6
37.5°	1696.0	1713.8	1697.9	1669.7	1612.5	1597.5	1635.0	1632.2	1627.5	1471.7	1103.8
40°	1898.7	1925.0	1882.8	1767.3	1673.5	1660.3	1713.8	1725.1	1720.4	1570.2	1170.4
42.5°	2110.9	2150.3	2084.6	1925.0	1784.2	1736.4	1800.2	1816.1	1810.5	1654.7	1230.5
45°	2239.4	2256.3	2190.6	2066.7	1980.4	1828.3	1892.2	1918.5	1913.8	1756.1	1307.4
47.5°	2344.6	2338.0	2262.9	2179.4	2195.3	1957.9	1996.4	2048.0	2044.2	1867.8	1391.9
50°	2367.1	2352.1	2322.0	2269.5	2311.7	2089.3	2106.2	2195.3	2191.6	1991.7	1477.3
52.5°	2208.5	2188.8	2270.4	2314.5	2300.5	2185.0	2227.2	2356.8	2354.9	2125.9	1559.0
55°	1812.4	1796.4	2016.1	2244.1	2288.2	2252.6	2361.5	2524.8	2535.1	2268.5	1633.1
57.5°	1425.7	1408.8	1624.7	2067.7	2243.2	2314.5	2518.2	2717.2	2730.3	2423.4	1703.5
60°	1136.6	1111.3	1276.5	1789.9	2158.7	2362.4	2669.3	2928.4	2930.2	2565.1	1746.7
62.5°	772.4	744.3	927.3	1437.9	2017.0	2369.9	2785.7	3110.4	3118.0	2671.2	1754.2
65°	469.3	445.8	569.7	1050.3	1807.7	2306.1	2787.6	3244.7	3251.2	2720.0	1709.1
67.5°	272.2	262.8	325.7	654.2	1460.4	2134.3	2670.2	3224.0	3236.2	2699.3	1606.8
70°	158.6	157.7	181.1	323.8	1030.6	1793.6	2408.4	3050.4	3068.2	2591.4	1450.1
72.5°	116.4	118.3	127.6	173.6	596.9	1291.5	2039.5	2701.2	2728.4	2380.2	1226.7
75°	92.0	92.9	101.4	118.3	313.5	730.2	1528.0	2168.1	2189.7	2003.9	958.3
77.5°	68.5	70.4	77.0	83.5	145.5	335.1	859.7	1335.6	1299.9	1100.0	462.7
80°	49.7	54.4	57.3	60.1	77.0	129.5	258.1	465.5	461.8	480.6	218.7
82.5°	31.9	35.7	38.5	40.4	46.0	61.9	77.0	104.2	112.6	186.8	87.3
85°	14.1	16.0	17.8	21.6	19.7	21.6	31.9	20.6	17.8	28.2	16.0
87.5°	0.0	0.0	2.8	4.7	3.8	1.9	5.6	3.8	2.8	2.8	2.8
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°	592.2	592.2	592.2	592.2	592.2	592.2	592.2	592.2	592.2	592.2	592.2
2.5°	597.9	587.5	566.0	545.3	533.1	517.2	503.1	489.9	489.0	485.2	478.7
5°	605.4	585.7	545.3	506.8	477.7	446.8	420.5	399.8	392.3	386.7	379.2
7.5°	612.9	581.9	521.8	465.5	419.5	376.4	345.4	317.2	308.8	301.3	296.6
10°	615.7	575.3	494.6	419.5	359.5	313.5	280.6	260.0	252.5	248.7	245.9
12.5°	624.2	571.6	469.3	376.4	306.9	264.7	241.2	229.0	226.2	223.4	220.6
15°	635.4	571.6	443.9	334.1	265.6	231.8	217.7	209.3	207.4	206.5	204.6
17.5°	647.6	571.6	419.5	298.5	235.6	210.2	199.9	195.2	194.3	193.3	192.4
20°	664.5	572.5	393.3	267.5	214.0	194.3	185.8	180.2	179.3	178.3	178.3
22.5°	681.4	574.4	367.9	244.0	199.9	182.1	171.8	166.1	164.3	164.3	164.3
25°	703.0	580.0	344.5	224.3	187.7	170.8	157.7	153.0	152.0	152.0	151.1
27.5°	728.3	586.6	323.8	209.3	175.5	157.7	144.5	139.8	138.0	138.0	137.0
30°	755.6	593.2	306.9	198.0	163.3	144.5	132.3	126.7	124.8	125.8	124.8
32.5°	785.6	602.6	293.8	190.5	152.0	133.3	122.0	115.4	114.5	114.5	113.6
35°	836.3	628.8	291.9	186.8	142.7	124.8	113.6	107.0	106.1	106.1	105.1
37.5°	890.7	658.9	300.3	184.9	135.2	117.3	107.0	100.4	99.5	99.5	99.5
40°	936.7	681.4	309.7	184.9	130.5	110.8	101.4	95.7	95.7	95.7	95.7
42.5°	967.7	683.3	307.9	184.9	126.7	106.1	97.6	92.0	92.0	92.9	92.0
45°	1013.7	692.7	300.3	182.1	123.9	102.3	93.9	89.2	88.2	89.2	89.2
47.5°	1068.1	709.6	292.8	170.8	123.0	98.6	91.0	85.4	84.5	85.4	84.5
50°	1119.7	724.6	289.1	155.8	121.1	94.8	87.3	81.7	80.7	81.7	80.7
52.5°	1162.9	731.2	282.5	145.5	116.4	91.0	83.5	77.9	76.0	77.0	77.0
55°	1197.6	729.3	273.1	137.0	107.9	87.3	78.8	74.1	71.3	71.3	70.4
57.5°	1229.5	730.2	264.7	128.6	98.6	81.7	75.1	69.5	65.7	64.8	63.8
60°	1241.7	725.5	249.7	117.3	89.2	77.0	70.4	63.8	60.1	59.1	58.2
62.5°	1224.8	708.6	230.0	97.6	80.7	71.3	65.7	59.1	55.4	54.4	53.5
65°	1177.0	676.7	199.9	77.0	73.2	64.8	60.1	55.4	50.7	48.8	47.9
67.5°	1095.3	630.7	162.4	61.9	64.8	59.1	56.3	50.7	45.1	43.2	42.2
70°	978.9	569.7	122.0	52.6	57.3	52.6	50.7	45.1	40.4	38.5	37.5
72.5°	815.6	471.2	85.4	45.1	49.7	46.0	44.1	40.4	35.7	32.9	32.9
75°	616.6	337.9	56.3	38.5	41.3	39.4	36.6	33.8	31.0	29.1	28.2
77.5°	265.6	131.4	34.7	29.1	33.8	32.9	29.1	27.2	26.3	24.4	24.4
80°	114.5	53.5	21.6	21.6	24.4	23.5	22.5	20.6	20.6	19.7	18.8
82.5°	42.2	21.6	13.1	16.0	17.8	16.0	16.0	16.0	16.0	15.0	15.0
85°	10.3	6.6	6.6	9.4	10.3	9.4	10.3	9.4	9.4	9.4	8.4
87.5°	2.8	2.8	3.8	3.8	3.8	3.8	3.8	2.8	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)