

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: P799768

Luminaire Tested: **ARCH2-50-730-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-50-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

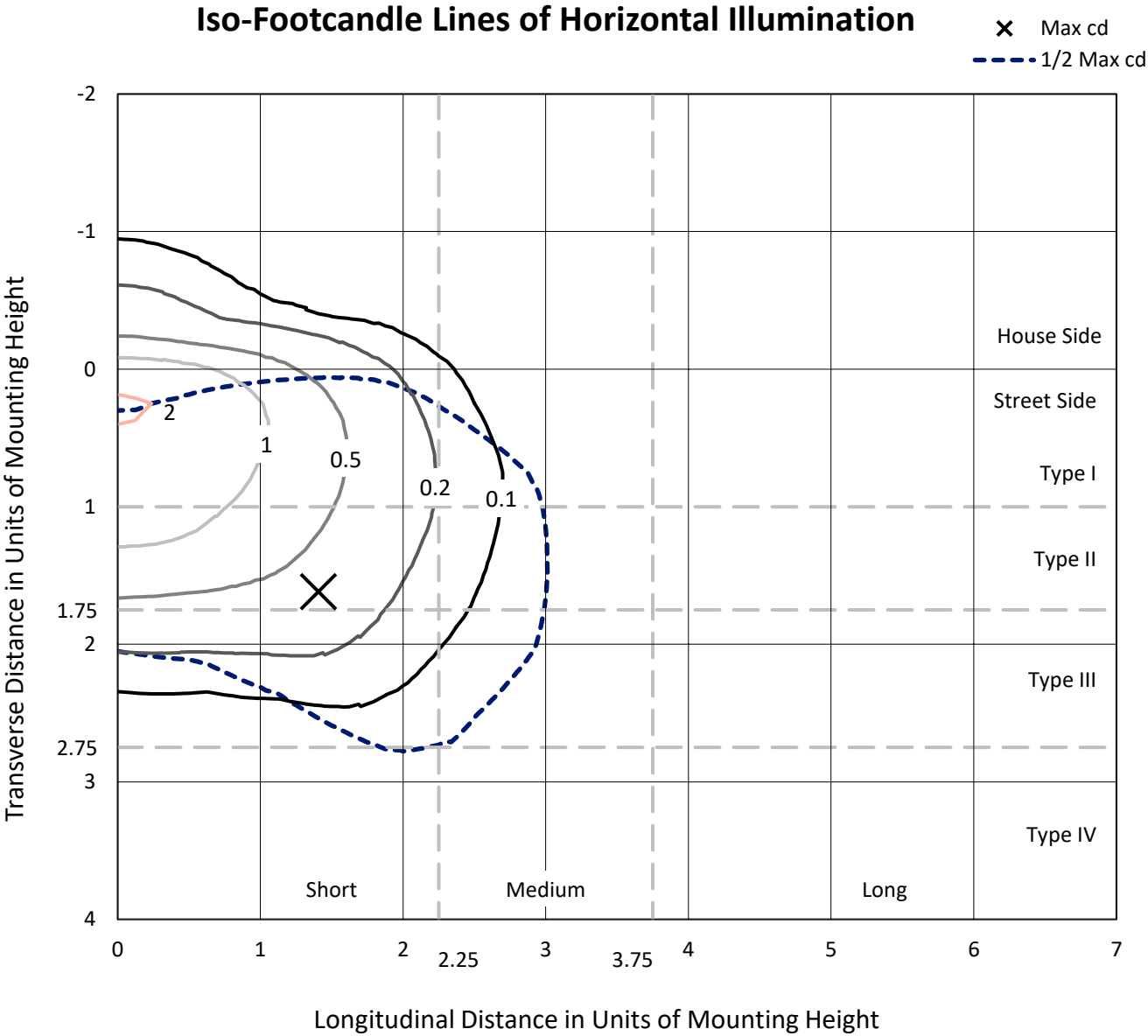
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5330 lumens
Efficiency: N/A
Efficacy: 98.7 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): 54
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

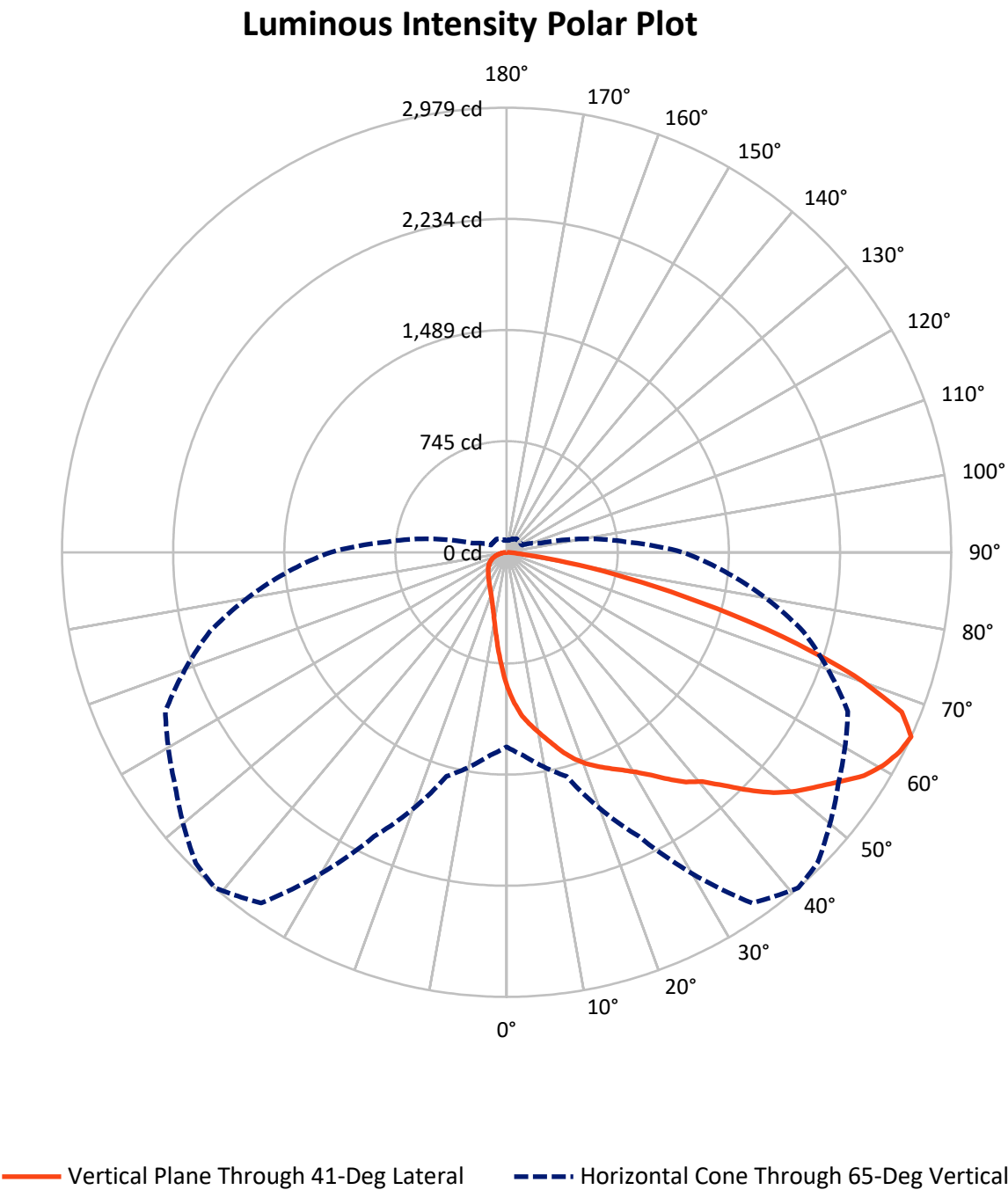


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Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type III - Short - N/A

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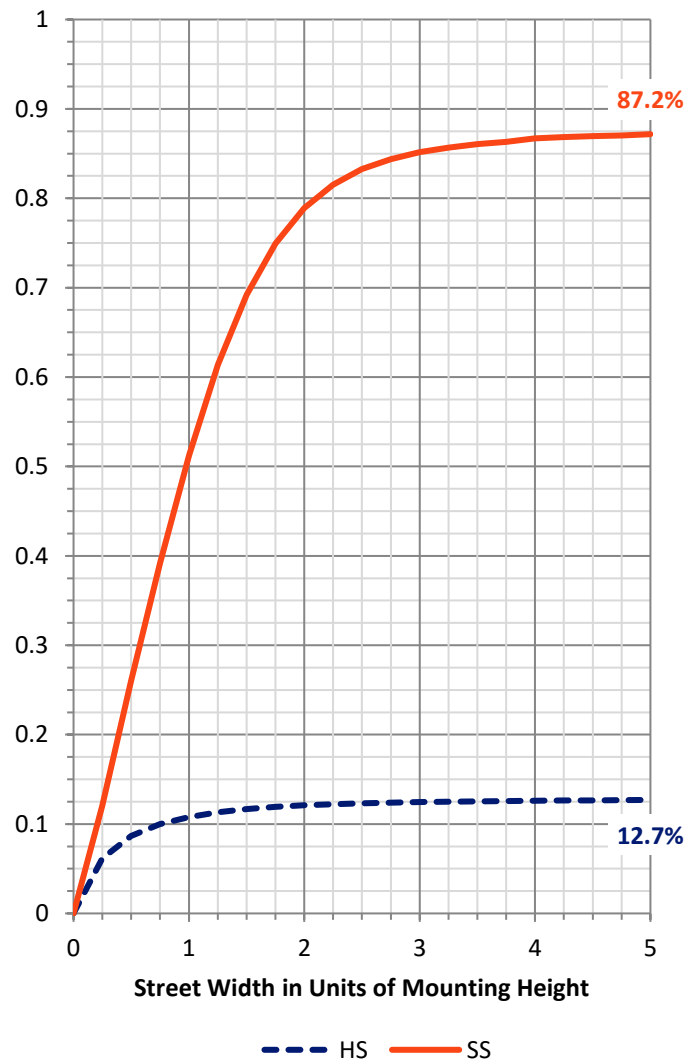
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	684.3	0.0	684.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4645.7	0.0	4645.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	5330.0	0.0	5330.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	1.6
10°-20°	253.7	4.8
20°-30°	436.5	8.2
30°-40°	662.1	12.4
40°-50°	969.9	18.2
50°-60°	1224.8	23.0
60°-70°	1148.5	21.5
70°-80°	511.9	9.6
80°-90°	37.9	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°	5330.0	100.0
0°-180°	5330.0	100.0

Coefficient of Utilization



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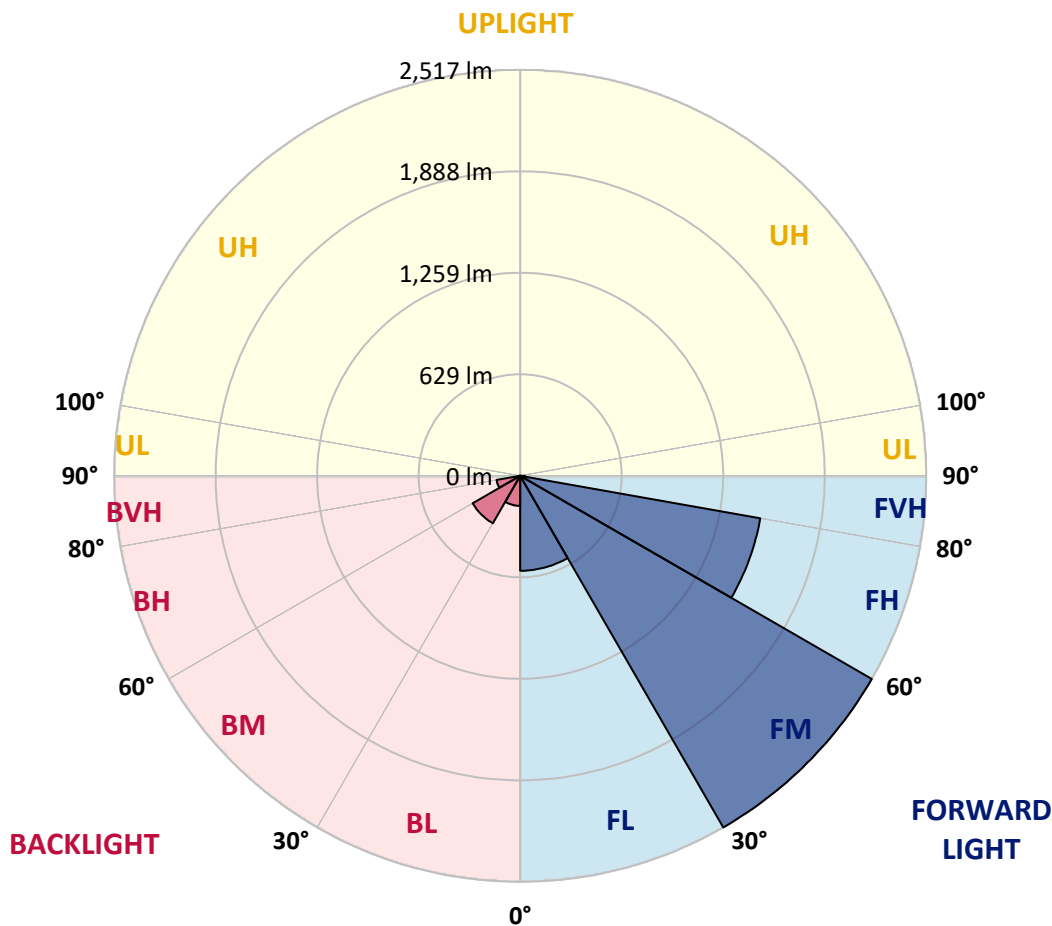
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	588.6	11.0			
FM	(30°-60°)	2517.0	47.2			
FH	(60°-80°)	1511.7	28.4			G1/1800
FVH	(80°-90°)	28.3	0.5			G1/100
BL	(0°-30°)	186.3	3.5	B1/500		
BM	(30°-60°)	339.8	6.4	B1/1000		
BH	(60°-80°)	148.6	2.8	B1/500		G1/500
BVH	(80°-90°)	9.6	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2
2.5°	1047.6	1044.2	1042.0	1029.6	1029.6	1012.7	1013.9	998.1	979.0	948.7	916.1
5°	1146.5	1142.0	1136.4	1124.0	1119.5	1102.7	1100.4	1077.9	1045.3	992.5	934.1
7.5°	1233.0	1228.5	1220.7	1202.7	1190.3	1170.1	1164.5	1135.3	1099.3	1034.1	952.0
10°	1311.7	1308.4	1298.2	1275.8	1258.9	1234.2	1224.1	1184.7	1139.8	1067.8	966.7
12.5°	1391.5	1387.0	1373.5	1354.4	1334.2	1305.0	1292.6	1242.0	1184.7	1104.9	988.0
15°	1465.7	1459.0	1448.9	1428.6	1410.6	1382.5	1369.1	1309.5	1239.8	1146.5	1016.1
17.5°	1514.0	1508.4	1499.4	1488.2	1473.6	1452.2	1438.7	1380.3	1294.9	1187.0	1045.3
20°	1543.3	1541.0	1537.7	1530.9	1524.2	1509.6	1499.4	1444.4	1354.4	1226.3	1073.4
22.5°	1565.8	1563.5	1562.4	1562.4	1563.5	1557.9	1551.1	1503.9	1411.8	1267.9	1099.3
25°	1600.6	1599.5	1597.2	1595.0	1602.8	1604.0	1601.7	1569.1	1483.7	1323.0	1131.9
27.5°	1648.9	1645.6	1641.1	1638.8	1646.7	1652.3	1656.8	1634.3	1560.1	1379.2	1169.0
30°	1723.1	1713.0	1701.8	1693.9	1699.5	1708.5	1718.6	1705.1	1638.8	1448.9	1207.2
32.5°	1810.8	1798.4	1772.6	1758.0	1772.6	1779.3	1787.2	1780.4	1720.9	1524.2	1245.4
35°	1917.6	1903.0	1876.0	1854.6	1880.5	1865.9	1862.5	1855.7	1798.4	1598.3	1288.1
37.5°	2095.2	2073.8	2031.1	1983.9	1983.9	1952.4	1940.0	1919.8	1868.1	1664.7	1329.7
40°	2300.9	2272.8	2217.7	2148.0	2083.9	2018.7	2010.9	1996.3	1950.2	1741.1	1376.9
42.5°	2526.8	2472.8	2396.4	2312.1	2208.7	2134.5	2116.5	2074.9	2030.0	1818.7	1424.1
45°	2777.4	2665.0	2553.8	2511.0	2340.2	2272.8	2239.0	2163.7	2113.1	1899.6	1473.6
47.5°	2817.9	2730.2	2656.0	2649.3	2462.7	2406.5	2368.3	2260.4	2203.1	1986.1	1525.3
50°	2795.4	2742.6	2750.5	2723.5	2552.6	2515.5	2486.3	2363.8	2291.9	2069.3	1572.5
52.5°	2701.0	2730.2	2775.2	2725.7	2638.1	2607.7	2593.1	2475.1	2375.0	2145.7	1615.2
55°	2588.6	2608.8	2705.5	2766.2	2737.0	2710.0	2696.5	2604.3	2457.1	2209.8	1654.6
57.5°	2424.5	2415.5	2522.3	2759.5	2840.4	2824.6	2810.0	2731.4	2533.5	2255.9	1679.3
60°	2178.3	2159.2	2294.1	2624.6	2874.1	2898.8	2892.1	2815.7	2592.0	2254.8	1669.2
62.5°	1752.3	1799.5	1986.1	2404.3	2888.7	2951.7	2939.3	2822.4	2611.1	2189.6	1605.1
65°	1302.7	1370.2	1553.4	2100.8	2868.5	2978.6	2944.9	2712.2	2522.3	2060.3	1464.6
67.5°	938.6	998.1	1131.9	1728.7	2674.0	2855.0	2815.7	2532.4	2317.7	1877.1	1270.1
70°	641.8	684.5	775.6	1258.9	2282.9	2468.3	2443.6	2263.8	1995.1	1659.0	1031.8
72.5°	453.0	471.0	529.4	830.6	1734.4	1936.7	1907.5	1862.5	1602.8	1379.2	802.5
75°	339.5	350.7	382.2	537.3	1170.1	1342.1	1315.1	1340.9	1197.1	1044.2	584.5
77.5°	128.1	139.4	216.9	342.8	692.4	823.9	796.9	812.7	665.4	527.2	291.1
80°	34.8	37.1	71.9	163.0	314.7	410.3	373.2	320.3	247.3	242.8	154.0
82.5°	14.6	16.9	32.6	87.7	112.4	112.4	94.4	116.9	94.4	113.5	74.2
85°	5.6	6.7	7.9	22.5	14.6	15.7	16.9	22.5	19.1	23.6	16.9
87.5°	0.0	0.0	0.0	1.1	1.1	2.2	1.1	2.2	3.4	3.4	3.4
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°	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2
2.5°	902.6	890.2	872.2	843.0	812.7	795.8	774.4	771.1	748.6	746.3	737.4
5°	908.2	882.4	836.3	780.1	725.0	682.3	650.8	633.9	601.3	601.3	592.4
7.5°	912.7	872.2	798.1	714.9	639.6	582.2	539.5	521.5	492.3	490.1	483.3
10°	913.8	859.9	756.5	648.6	556.4	497.9	456.4	436.1	410.3	408.0	403.5
12.5°	922.8	853.1	719.4	591.2	496.8	433.9	393.4	376.5	356.3	354.1	349.6
15°	937.4	853.1	687.9	542.9	444.0	385.5	350.7	335.0	320.3	318.1	315.8
17.5°	952.0	850.9	656.4	497.9	400.1	347.3	317.0	304.6	293.4	292.2	290.0
20°	965.5	849.8	625.0	459.7	366.4	315.8	292.2	281.0	272.0	272.0	270.9
22.5°	979.0	847.5	594.6	423.8	337.2	292.2	272.0	259.6	252.9	252.9	251.8
25°	999.2	847.5	566.5	393.4	313.6	274.3	254.0	245.0	239.4	238.3	238.3
27.5°	1022.9	854.3	541.8	366.4	293.4	256.3	240.5	231.5	224.8	222.6	223.7
30°	1048.7	859.9	519.3	342.8	274.3	242.8	225.9	216.9	210.2	207.9	209.1
32.5°	1074.6	866.6	499.1	321.5	255.2	230.4	213.6	203.4	196.7	195.6	195.6
35°	1102.7	873.4	478.8	303.5	239.4	218.1	202.3	191.1	186.6	184.3	185.5
37.5°	1130.8	884.6	459.7	286.6	228.2	206.8	192.2	181.0	177.6	176.5	176.5
40°	1164.5	901.5	451.9	275.4	218.1	196.7	184.3	173.1	169.7	169.7	169.7
42.5°	1192.6	914.9	445.1	263.0	210.2	187.7	176.5	167.5	165.2	164.1	165.2
45°	1220.7	927.3	436.1	251.8	200.1	178.7	169.7	160.7	158.5	158.5	158.5
47.5°	1248.8	934.1	423.8	240.5	191.1	170.9	163.0	155.1	152.9	152.9	152.9
50°	1271.3	939.7	405.8	228.2	181.0	164.1	156.2	148.4	146.1	146.1	146.1
52.5°	1293.7	940.8	386.7	213.6	170.9	156.2	149.5	141.6	139.4	138.3	138.3
55°	1314.0	939.7	364.2	196.7	159.6	147.2	141.6	134.9	130.4	125.9	128.1
57.5°	1328.6	938.6	338.3	179.8	148.4	138.3	136.0	127.0	118.0	106.8	109.0
60°	1323.0	926.2	310.2	158.5	136.0	129.3	129.3	116.9	101.2	95.5	96.7
62.5°	1287.0	891.3	281.0	136.0	123.6	120.3	119.1	105.7	93.3	87.7	88.8
65°	1179.1	803.7	238.3	115.8	111.3	110.2	110.2	97.8	86.5	79.8	80.9
67.5°	1015.0	674.4	194.5	97.8	98.9	101.2	101.2	89.9	78.7	71.9	73.1
70°	813.8	527.2	155.1	84.3	85.4	88.8	91.0	80.9	70.8	64.1	64.1
72.5°	612.6	400.1	124.8	70.8	76.4	76.4	79.8	71.9	61.8	55.1	56.2
75°	444.0	286.6	98.9	59.6	66.3	65.2	65.2	60.7	52.8	48.3	48.3
77.5°	210.2	150.6	78.7	42.7	51.7	50.6	51.7	48.3	45.0	40.5	41.6
80°	103.4	74.2	50.6	30.3	36.0	37.1	40.5	38.2	37.1	33.7	33.7
82.5°	49.5	29.2	23.6	21.4	24.7	25.9	28.1	28.1	29.2	27.0	27.0
85°	13.5	7.9	10.1	13.5	15.7	16.9	19.1	20.2	20.2	19.1	20.2
87.5°	3.4	3.4	4.5	6.7	7.9	9.0	10.1	10.1	4.5	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)