

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: P836740

Luminaire Tested: **ARCH3-70-722-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-70-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7135 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 73.1
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

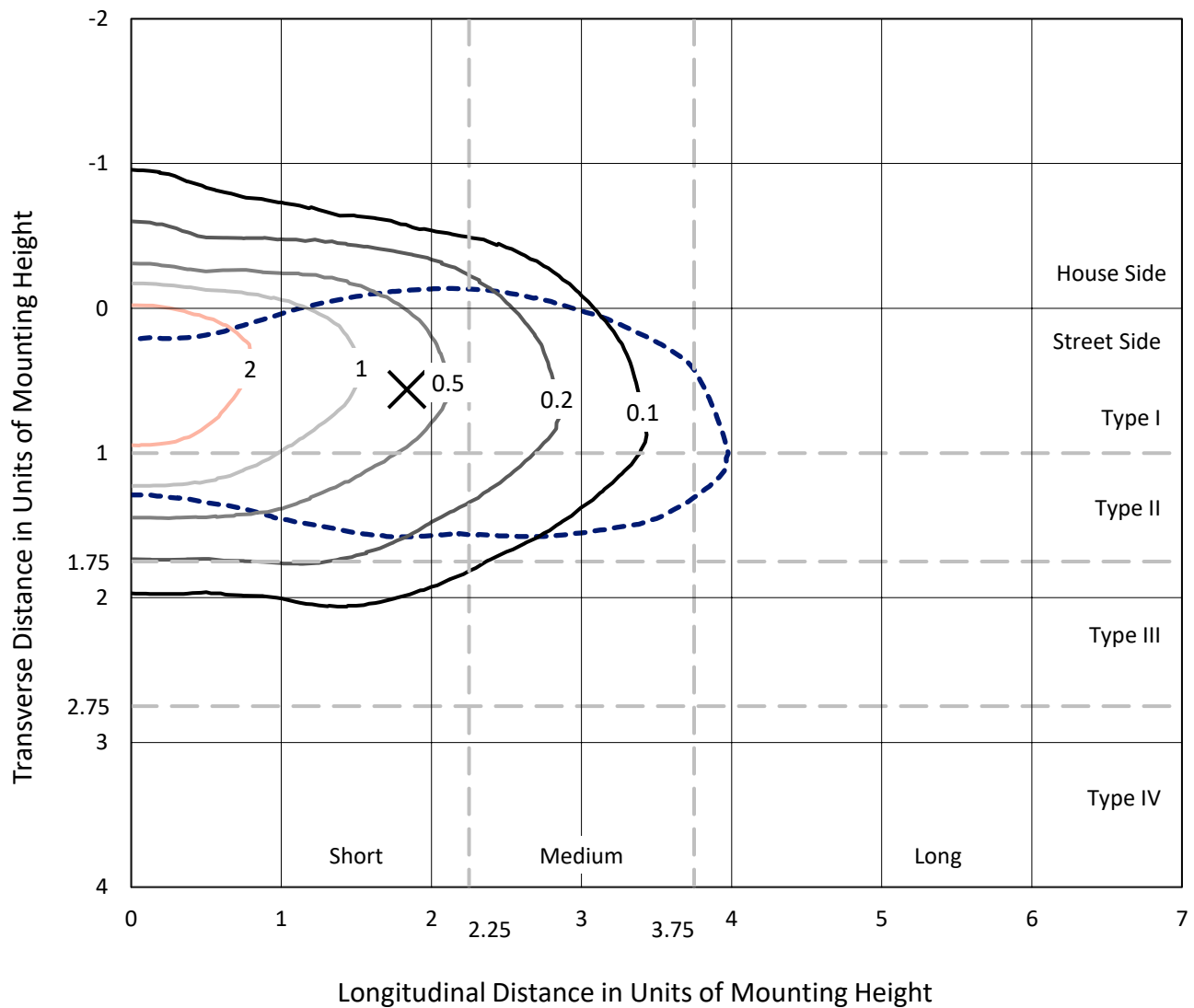


REPORT NUMBER: P836740

CATALOG NUMBER: ARCH3-70-722-U-T2U-HSS

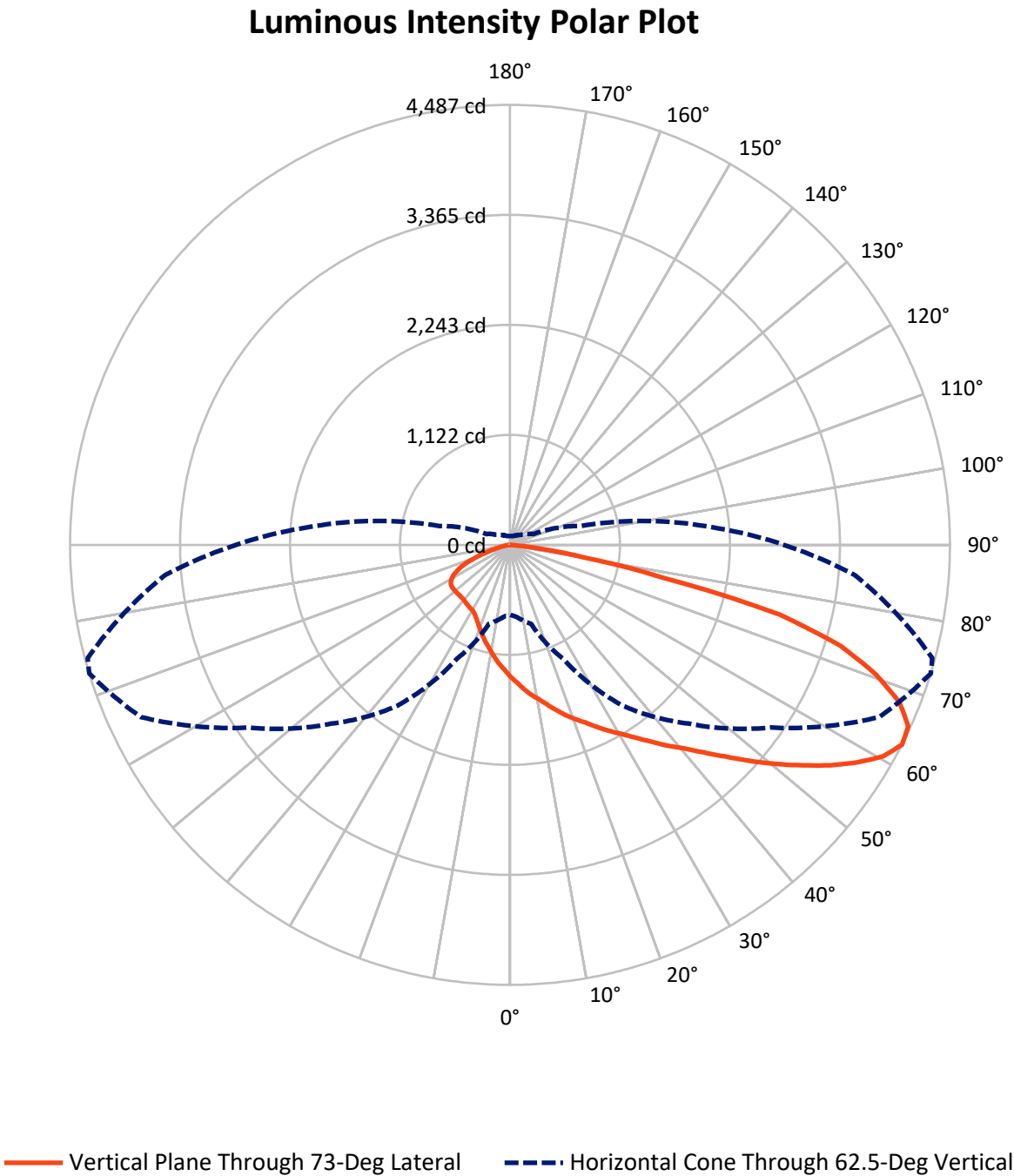
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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CATALOG NUMBER: ARCH3-70-722-U-T2U-HSS



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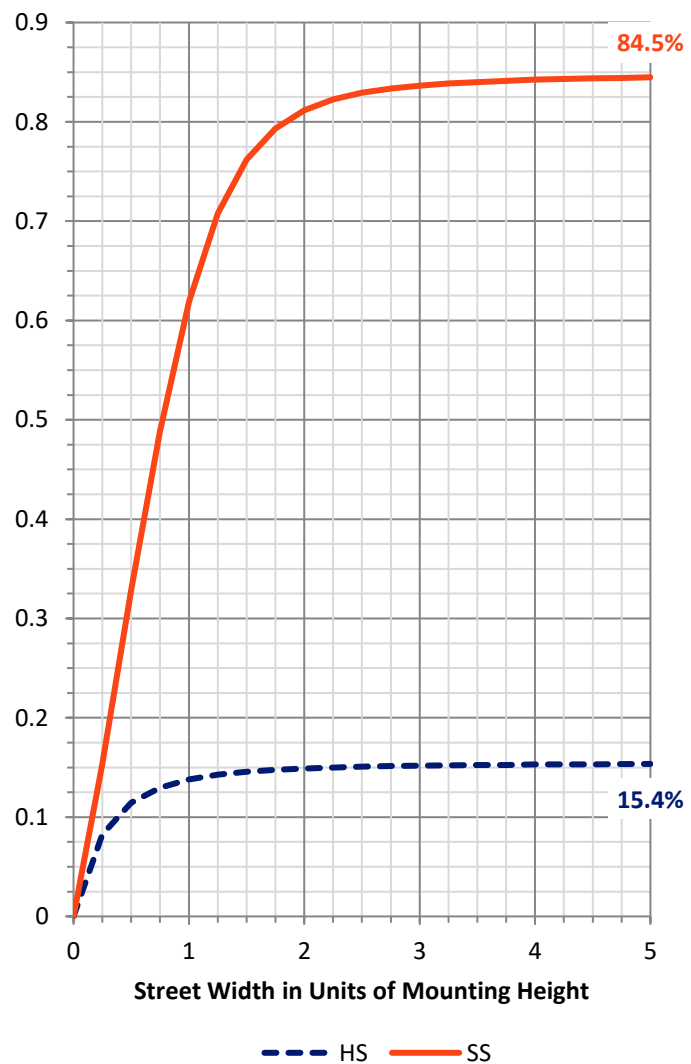
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1106.0	0.0	1106.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	6029.0	0.0	6029.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	7135.0	0.0	7135.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.5	1.8
10°-20°	393.8	5.5
20°-30°	655.6	9.2
30°-40°	989.1	13.9
40°-50°	1382.6	19.4
50°-60°	1527.1	21.4
60°-70°	1330.3	18.6
70°-80°	672.0	9.4
80°-90°	53.9	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°	7135.0	100.0
0°-180°	7135.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836740

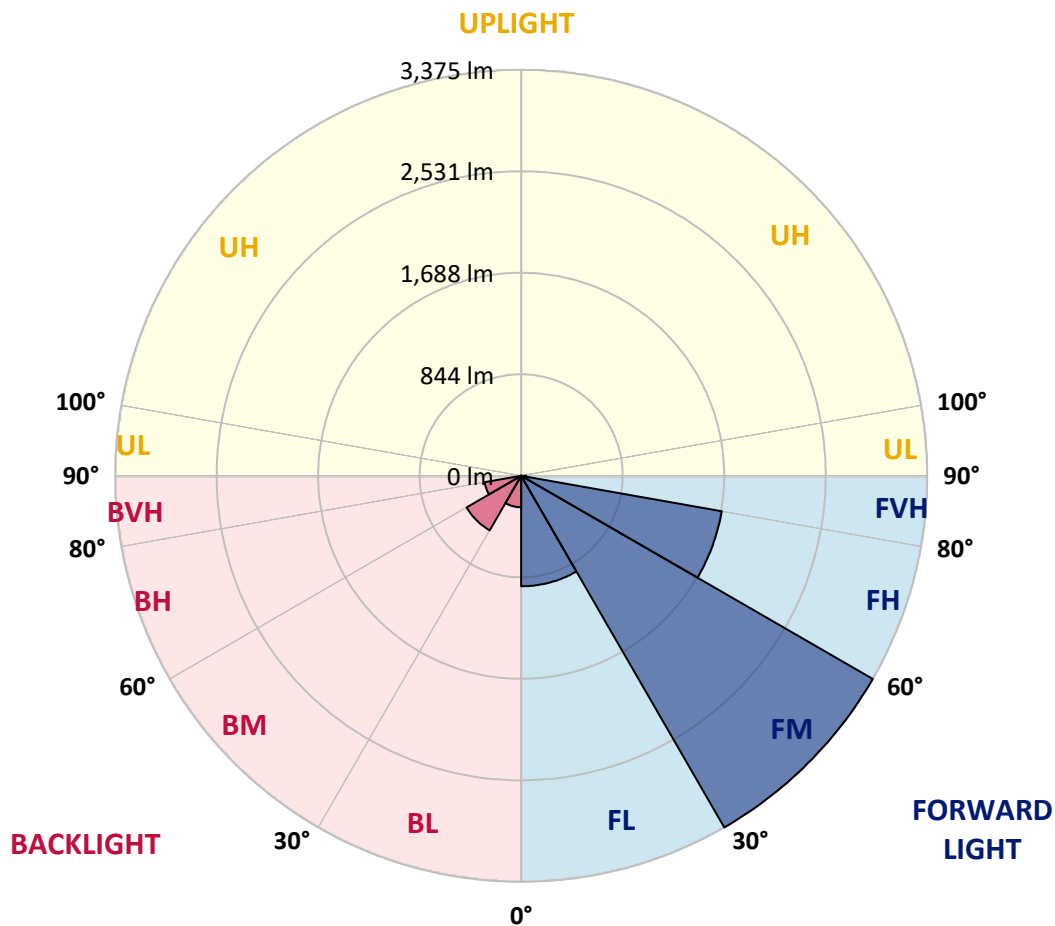
CATALOG NUMBER: ARCH3-70-722-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	918.5	12.9			
FM	(30°-60°)	3375.1	47.3			
FH	(60°-80°)	1693.6	23.7			G1/1800
FVH	(80°-90°)	41.7	0.6			G1/100
BL	(0°-30°)	261.4	3.7	B1/500		
BM	(30°-60°)	523.7	7.3	B1/1000		
BH	(60°-80°)	308.7	4.3	B1/500		G1/500
BVH	(80°-90°)	12.2	0.2			G1/100
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



REPORT NUMBER: P836740

CATALOG NUMBER: ARCH3-70-722-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1351.0	1351.0	1351.0	1351.0	1351.0	1351.0	1351.0	1351.0	1351.0	1351.0	1351.0
2.5°	1537.6	1554.7	1545.4	1551.6	1520.5	1500.3	1477.0	1431.9	1407.0	1403.9	1374.3
5°	1763.0	1781.7	1766.1	1761.5	1707.1	1660.4	1607.6	1528.3	1475.4	1466.1	1400.8
7.5°	1988.5	2005.6	1986.9	1972.9	1899.8	1817.4	1739.7	1623.1	1540.7	1525.2	1422.5
10°	2147.0	2162.6	2148.6	2134.6	2058.4	1974.5	1864.1	1711.7	1599.8	1574.9	1436.5
12.5°	2266.7	2276.1	2269.9	2257.4	2185.9	2095.7	1990.0	1811.2	1666.6	1635.5	1458.3
15°	2364.7	2380.2	2372.5	2363.1	2294.7	2204.6	2103.5	1915.4	1744.4	1705.5	1490.9
17.5°	2430.0	2440.9	2442.4	2442.4	2381.8	2293.2	2195.2	2010.2	1822.1	1772.3	1522.0
20°	2459.5	2472.0	2479.7	2492.2	2442.4	2366.2	2266.7	2091.1	1895.2	1839.2	1551.6
22.5°	2473.5	2484.4	2504.6	2532.6	2492.2	2428.4	2336.7	2165.7	1968.2	1909.2	1585.8
25°	2484.4	2498.4	2527.9	2580.8	2552.8	2498.4	2419.1	2251.2	2055.3	1994.7	1635.5
27.5°	2513.9	2531.0	2559.0	2622.8	2588.6	2562.1	2506.2	2342.9	2147.0	2084.8	1696.2
30°	2616.5	2630.5	2629.0	2669.4	2627.4	2619.7	2580.8	2431.5	2235.6	2173.5	1767.7
32.5°	2803.1	2817.1	2782.9	2767.4	2675.6	2677.2	2661.6	2526.4	2341.4	2277.6	1850.1
35°	3003.7	3019.2	2974.1	2947.7	2793.8	2748.7	2756.5	2644.5	2459.5	2395.8	1952.7
37.5°	3182.5	3201.1	3162.2	3123.4	2967.9	2863.7	2862.2	2776.7	2594.8	2529.5	2066.2
40°	3280.4	3302.2	3325.5	3303.7	3140.5	3025.4	2975.7	2911.9	2728.5	2661.6	2189.0
42.5°	3327.0	3387.7	3429.7	3415.7	3282.0	3165.4	3106.3	3053.4	2891.7	2826.4	2335.1
45°	3196.4	3198.0	3286.6	3362.8	3337.9	3260.2	3249.3	3212.0	3078.3	3016.1	2499.9
47.5°	3033.2	3020.8	3083.0	3218.2	3288.2	3308.4	3372.1	3387.7	3291.3	3229.1	2667.9
50°	2641.4	2649.2	2851.3	3045.6	3182.5	3313.0	3459.2	3568.0	3510.5	3451.4	2845.1
52.5°	2148.6	2167.2	2398.9	2826.4	3042.5	3266.4	3510.5	3748.4	3734.4	3678.4	3022.3
55°	1722.6	1752.1	1997.8	2461.1	2863.7	3162.2	3532.3	3913.2	3966.0	3914.7	3196.4
57.5°	1316.8	1347.9	1554.7	2030.4	2635.2	2992.8	3516.7	4057.7	4182.1	4149.5	3356.6
60°	991.9	1023.0	1155.1	1646.4	2349.1	2803.1	3439.0	4152.6	4376.5	4342.3	3473.2
62.5°	710.5	735.4	833.3	1281.1	2000.9	2577.7	3247.8	4154.1	4486.8	4458.9	3529.2
65°	511.5	511.5	590.8	914.2	1674.4	2307.2	2958.6	3962.9	4463.5	4455.7	3490.3
67.5°	368.5	371.6	435.3	639.0	1335.5	1979.1	2583.9	3622.4	4283.2	4322.0	3350.4
70°	261.2	269.0	298.5	446.2	1009.0	1562.5	2182.8	3176.2	3958.2	4026.7	3079.8
72.5°	202.1	206.8	227.0	310.9	736.9	1161.4	1739.7	2678.7	3524.5	3602.2	2711.4
75°	155.5	160.1	175.7	228.5	528.6	814.7	1236.0	2078.6	2842.0	2980.3	2178.1
77.5°	113.5	119.7	130.6	166.4	307.8	517.7	749.4	1169.1	1568.7	1634.0	1141.1
80°	52.9	60.6	76.2	107.3	166.4	244.1	265.9	450.9	754.0	788.2	618.8
82.5°	29.5	37.3	43.5	65.3	84.0	87.1	90.2	113.5	284.5	314.0	259.6
85°	14.0	18.7	20.2	28.0	28.0	24.9	29.5	21.8	46.6	56.0	54.4
87.5°	0.0	1.6	3.1	7.8	6.2	4.7	4.7	4.7	4.7	6.2	4.7
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: P836740

CATALOG NUMBER: ARCH3-70-722-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1351.0	1351.0	1351.0	1351.0	1351.0	1351.0	1351.0	1351.0	1351.0	1351.0	1351.0
2.5°	1360.4	1340.1	1293.5	1253.1	1226.7	1203.3	1172.2	1158.2	1133.4	1138.0	1124.0
5°	1368.1	1330.8	1248.4	1172.2	1116.3	1066.5	1012.1	981.0	946.8	943.7	932.8
7.5°	1372.8	1315.3	1197.1	1089.8	1004.3	928.2	855.1	814.7	772.7	763.4	754.0
10°	1368.1	1291.9	1144.3	1004.3	890.8	796.0	713.6	662.3	618.8	607.9	598.6
12.5°	1372.8	1279.5	1094.5	925.0	789.8	682.5	589.2	536.4	495.9	485.1	478.8
15°	1383.7	1271.7	1052.5	853.5	699.6	579.9	488.2	443.1	410.4	399.6	396.4
17.5°	1393.0	1264.0	1007.4	783.6	609.4	489.7	410.4	373.1	345.1	334.3	331.1
20°	1405.4	1253.1	962.4	716.7	530.1	418.2	348.3	315.6	293.8	286.1	284.5
22.5°	1416.3	1245.3	920.4	649.9	457.1	360.7	301.6	275.2	259.6	251.9	251.9
25°	1444.3	1248.4	884.6	587.7	402.7	315.6	265.9	245.6	233.2	228.5	228.5
27.5°	1477.0	1260.9	856.6	534.8	356.0	281.4	241.0	223.9	217.7	211.4	213.0
30°	1523.6	1285.7	838.0	491.3	321.8	255.0	220.8	208.3	202.1	200.6	200.6
32.5°	1582.7	1326.2	836.4	463.3	296.9	234.8	206.8	195.9	192.8	191.2	191.2
35°	1652.6	1361.9	827.1	450.9	281.4	220.8	195.9	188.1	186.6	186.6	186.6
37.5°	1736.6	1421.0	820.9	433.8	273.6	213.0	188.1	181.9	181.9	181.9	181.9
40°	1823.7	1469.2	811.5	418.2	270.5	208.3	183.5	175.7	175.7	175.7	175.7
42.5°	1927.8	1539.1	808.4	410.4	265.9	205.2	177.2	167.9	169.5	169.5	171.0
45°	2053.7	1618.4	806.9	402.7	264.3	202.1	171.0	160.1	161.7	160.1	160.1
47.5°	2181.2	1710.2	811.5	398.0	262.7	199.0	166.4	152.4	152.4	150.8	150.8
50°	2314.9	1794.1	814.7	393.3	259.6	192.8	158.6	146.1	143.0	139.9	141.5
52.5°	2440.9	1871.8	816.2	385.6	250.3	183.5	152.4	138.4	133.7	129.0	130.6
55°	2566.8	1946.5	819.3	376.2	237.9	174.1	144.6	130.6	124.4	118.2	118.2
57.5°	2680.3	2011.8	811.5	352.9	223.9	164.8	136.8	121.3	111.9	105.7	105.7
60°	2758.0	2058.4	788.2	318.7	205.2	153.9	129.0	111.9	101.1	96.4	96.4
62.5°	2795.3	2066.2	746.3	262.7	181.9	143.0	119.7	102.6	93.3	90.2	90.2
65°	2759.6	2032.0	681.0	197.4	157.0	130.6	110.4	94.8	85.5	77.7	77.7
67.5°	2635.2	1935.6	590.8	149.3	133.7	118.2	101.1	87.1	76.2	70.0	70.0
70°	2384.9	1735.0	457.1	119.7	113.5	102.6	91.7	77.7	68.4	60.6	60.6
72.5°	2056.9	1470.7	321.8	96.4	96.4	87.1	77.7	68.4	59.1	52.9	52.9
75°	1578.0	1088.3	216.1	77.7	79.3	73.1	63.7	56.0	49.8	45.1	45.1
77.5°	861.3	537.9	132.1	57.5	59.1	56.0	49.8	45.1	42.0	37.3	37.3
80°	418.2	236.3	76.2	40.4	42.0	40.4	37.3	32.6	32.6	29.5	29.5
82.5°	175.7	88.6	40.4	28.0	28.0	24.9	23.3	23.3	23.3	21.8	21.8
85°	43.5	17.1	17.1	15.5	15.5	15.5	14.0	14.0	14.0	10.9	12.4
87.5°	6.2	6.2	6.2	6.2	6.2	6.2	4.7	1.6	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)