

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: P1210548

Luminaire Tested: **ARCH3-160-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210548
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: ARCH3-160-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13568 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 161
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

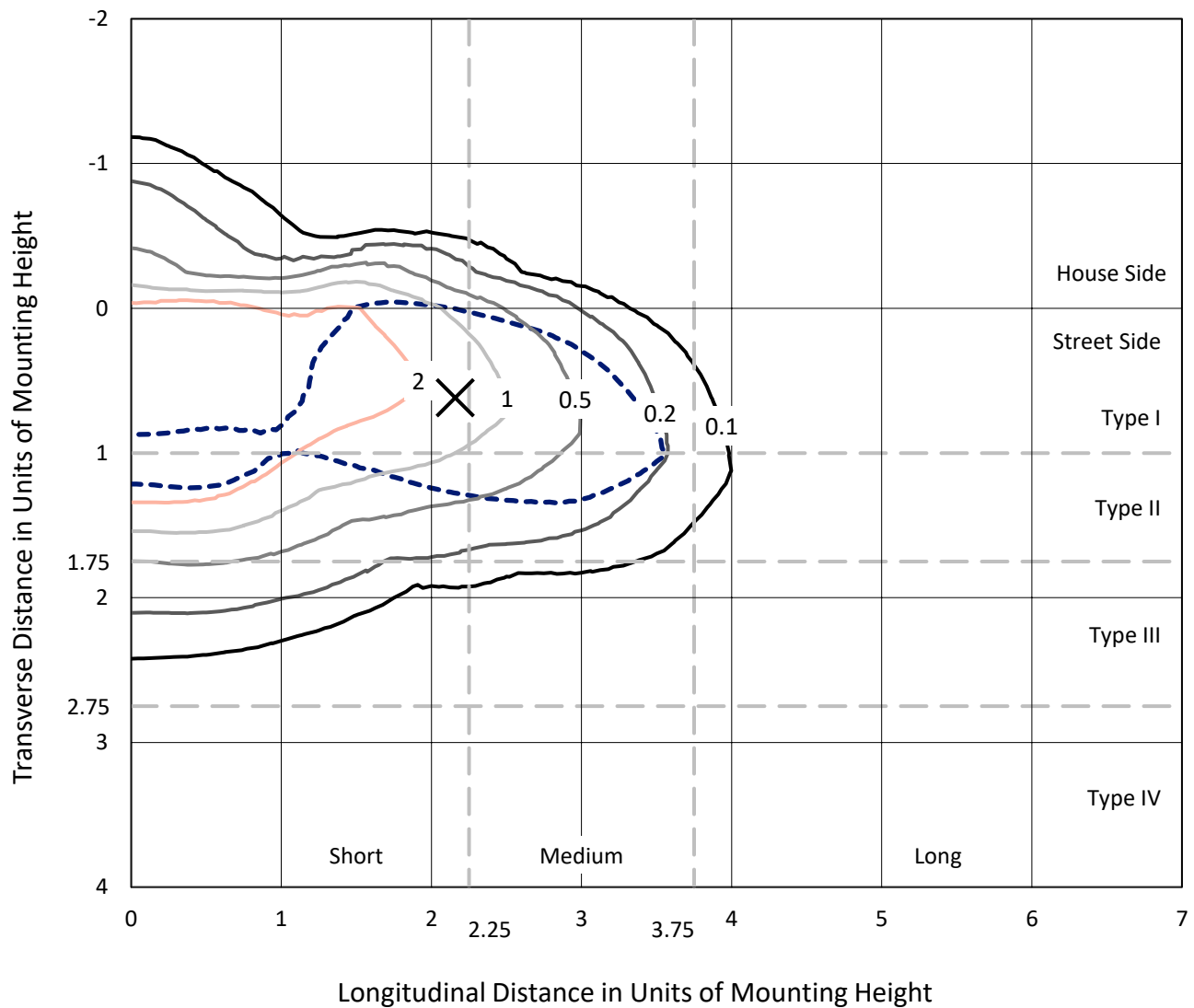


REPORT NUMBER: P1210548

CATALOG NUMBER: ARCH3-160-722-U-T2RE-HSS

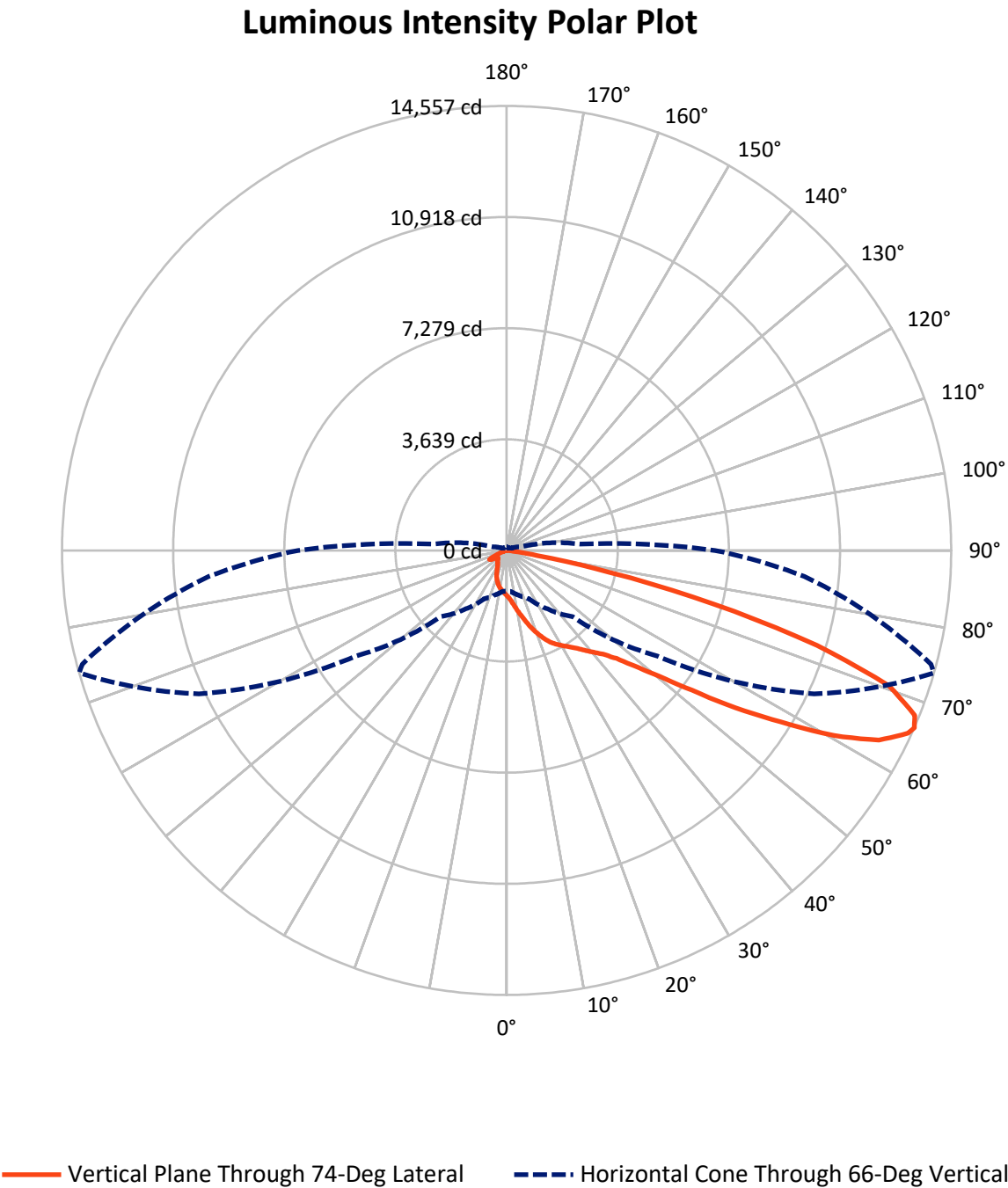
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type II - Short - N/A

REPORT NUMBER: P1210548
CATALOG NUMBER: ARCH3-160-722-U-T2RE-HSS



REPORT NUMBER: P1210548

CATALOG NUMBER: ARCH3-160-722-U-T2RE-HSS

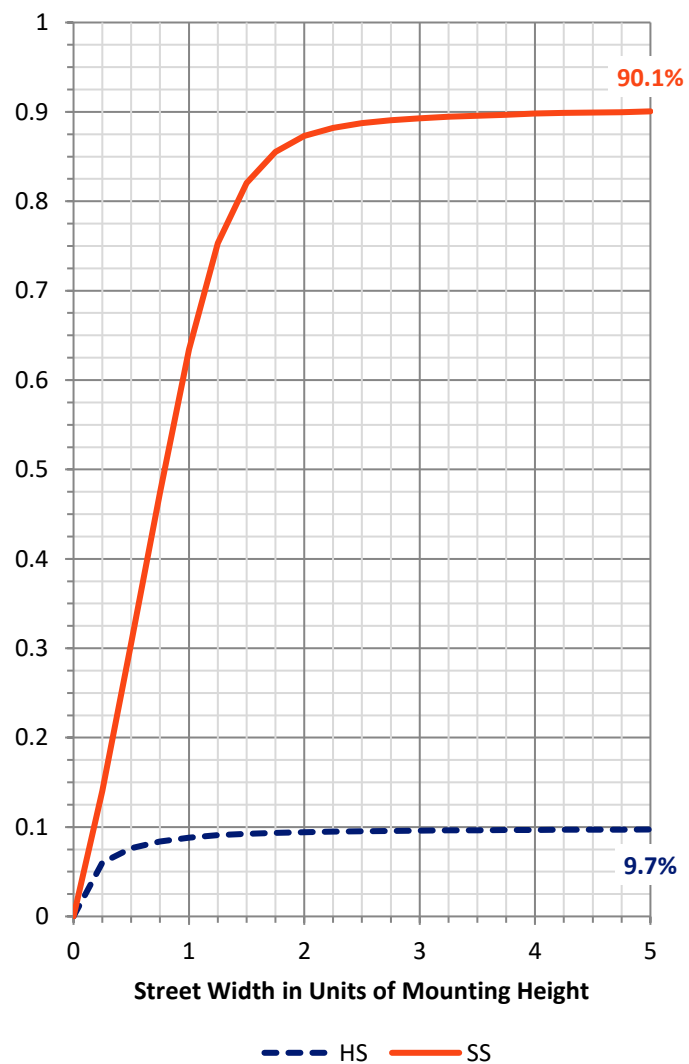
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1330.1	0.0	1330.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	12237.9	0.0	12237.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	13568.0	0.0	13568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	1.1
10°-20°	463.4	3.4
20°-30°	884.5	6.5
30°-40°	1550.2	11.4
40°-50°	2658.2	19.6
50°-60°	3457.2	25.5
60°-70°	3129.6	23.1
70°-80°	1207.6	8.9
80°-90°	72.7	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°	13568.0	100.0
0°-180°	13568.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210548

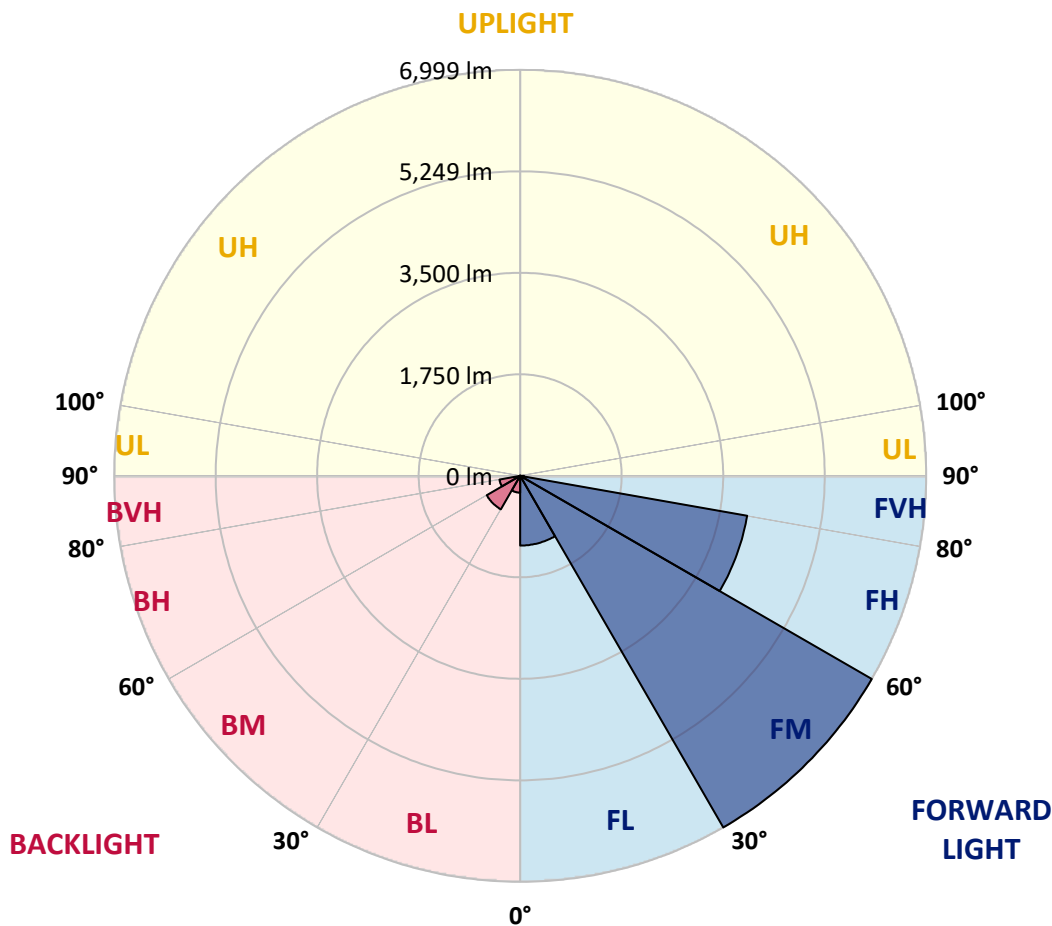
CATALOG NUMBER: ARCH3-160-722-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1202.3	8.9			
FM	(30°-60°)	6999.1	51.6			
FH	(60°-80°)	3973.6	29.3			G2/5000
FVH	(80°-90°)	62.9	0.5			G1/100
BL	(0°-30°)	290.1	2.1	B1/500		
BM	(30°-60°)	666.6	4.9	B1/1000		
BH	(60°-80°)	363.6	2.7	B1/500		G1/500
BVH	(80°-90°)	9.7	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-G2

Type II Short



REPORT NUMBER: P1210548

CATALOG NUMBER: ARCH3-160-722-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1
2.5°	1778.3	1763.6	1736.8	1734.4	1712.5	1685.7	1639.4	1590.7	1556.6	1551.7	1510.3
5°	2129.0	2121.7	2094.9	2077.9	2036.5	1973.1	1865.9	1758.8	1668.6	1658.9	1566.3
7.5°	2221.6	2226.5	2231.3	2248.4	2233.8	2204.5	2124.2	1973.1	1831.8	1809.9	1649.1
10°	2236.2	2231.3	2231.3	2253.3	2294.7	2336.1	2326.3	2197.2	2014.5	1987.7	1763.6
12.5°	2394.5	2401.9	2384.8	2375.1	2367.8	2389.7	2462.8	2406.7	2207.0	2185.1	1902.5
15°	2599.2	2596.7	2572.4	2572.4	2550.5	2513.9	2560.2	2601.6	2438.4	2411.6	2060.8
17.5°	2747.8	2757.5	2755.1	2769.7	2762.4	2713.7	2689.3	2774.6	2677.1	2643.0	2241.1
20°	2867.1	2893.9	2903.7	2949.9	2971.9	2937.8	2874.4	2928.0	2906.1	2874.4	2423.8
22.5°	2993.8	3015.7	3032.8	3113.2	3174.1	3166.7	3086.4	3074.2	3127.8	3098.5	2604.0
25°	3120.5	3130.2	3181.4	3278.8	3376.2	3400.6	3317.8	3222.8	3327.5	3300.7	2764.8
27.5°	3259.3	3264.2	3325.1	3444.4	3580.9	3632.0	3566.2	3390.9	3481.0	3481.0	2911.0
30°	3512.7	3561.4	3585.7	3692.9	3812.3	3882.9	3805.0	3568.7	3617.4	3639.3	3064.4
32.5°	4058.3	4065.6	4058.3	4104.6	4129.0	4170.4	4080.2	3768.4	3756.3	3780.6	3215.5
35°	4891.4	4862.2	4784.2	4716.0	4574.7	4496.8	4379.9	4024.2	3926.8	3960.9	3364.1
37.5°	5902.3	5860.9	5683.1	5473.6	5171.5	4859.7	4713.6	4336.0	4143.6	4187.4	3524.8
40°	6867.0	6840.2	6628.3	6370.0	5853.6	5320.1	5010.8	4599.1	4384.7	4401.8	3688.0
42.5°	7661.1	7656.2	7478.4	7208.0	6545.4	5817.1	5361.6	4857.3	4638.1	4664.9	3858.6
45°	8262.8	8216.5	8085.0	7890.1	7215.3	6333.5	5785.4	5249.5	5044.9	5076.5	4114.3
47.5°	8262.8	8270.1	8355.3	8335.9	7683.0	6818.3	6248.2	5744.0	5646.6	5675.8	4535.8
50°	7590.5	7658.7	8038.7	8357.8	7926.6	7195.8	6747.6	6362.7	6462.6	6506.5	5271.4
52.5°	6260.4	6374.9	7035.1	7763.4	7746.4	7385.8	7264.0	7149.5	7597.8	7675.7	6357.9
55°	4757.4	4832.9	5692.8	6650.2	6962.0	7229.9	7714.7	8148.3	9100.8	9083.7	7461.3
57.5°	3554.1	3624.7	4365.2	5427.3	5839.0	6555.2	7946.1	9290.8	10591.6	10657.3	8496.6
60°	2613.8	2667.4	3298.3	4170.4	4764.7	5522.3	7853.5	10416.2	12308.9	12233.4	9410.1
62.5°	1934.2	1963.4	2418.9	2986.5	3775.7	4499.2	7271.3	11185.9	13680.4	13526.9	9919.2
65°	1495.7	1505.4	1741.7	2043.8	2745.3	3498.0	6404.1	11302.9	14437.9	14274.7	9909.5
66°	1332.5	1339.8	1512.7	1746.6	2336.1	3062.0	6024.1	11115.3	14557.3	14384.4	9787.7
67.5°	1118.1	1113.2	1215.5	1369.0	1753.9	2362.9	5349.4	10567.2	14416.0	14328.3	9397.9
70°	828.2	830.7	881.8	918.4	1025.5	1308.1	3863.4	9166.5	13285.7	13280.9	8328.6
72.5°	613.9	621.2	660.1	667.5	640.7	708.9	2226.5	7290.8	10628.1	10630.5	6226.3
75°	460.4	472.6	484.8	489.6	465.3	448.2	1006.1	4906.0	6991.2	6940.1	3524.8
77.5°	350.8	355.7	365.4	358.1	353.2	309.4	419.0	2392.1	3451.8	3144.8	1142.5
80°	255.8	255.8	265.5	255.8	253.3	221.7	229.0	767.3	1013.4	842.8	246.0
82.5°	160.8	158.3	165.6	163.2	158.3	141.3	134.0	214.4	233.9	209.5	119.4
85°	90.1	87.7	85.3	82.8	75.5	63.3	73.1	80.4	107.2	109.6	85.3
87.5°	31.7	31.7	29.2	26.8	21.9	21.9	26.8	26.8	39.0	39.0	43.8
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: P1210548

CATALOG NUMBER: ARCH3-160-722-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1
2.5°	1490.8	1464.0	1425.0	1373.9	1337.3	1300.8	1261.8	1239.9	1208.2	1200.9	1210.7
5°	1517.6	1468.9	1371.4	1264.3	1171.7	1088.9	1010.9	964.6	918.4	901.3	908.6
7.5°	1573.6	1490.8	1325.2	1152.2	998.7	874.5	781.9	728.4	686.9	669.9	674.8
10°	1656.5	1529.8	1281.3	1025.5	828.2	696.7	618.7	584.6	560.3	550.5	553.0
12.5°	1756.3	1585.8	1225.3	898.9	682.1	567.6	531.0	523.7	518.9	514.0	516.4
15°	1868.4	1634.5	1159.5	774.6	567.6	504.2	492.1	489.6	487.2	487.2	487.2
17.5°	1985.3	1678.4	1086.4	657.7	494.5	465.3	458.0	458.0	458.0	460.4	460.4
20°	2094.9	1712.5	1001.2	553.0	453.1	428.7	423.9	423.9	426.3	428.7	428.7
22.5°	2202.1	1727.1	901.3	479.9	419.0	397.1	389.8	389.8	389.8	392.2	392.2
25°	2294.7	1727.1	801.4	433.6	389.8	367.8	358.1	355.7	358.1	358.1	358.1
27.5°	2372.6	1719.8	704.0	401.9	360.5	338.6	328.9	326.4	331.3	333.7	333.7
30°	2455.4	1710.0	626.0	372.7	336.2	314.2	304.5	304.5	311.8	321.5	321.5
32.5°	2535.8	1717.4	565.1	348.3	311.8	294.8	285.0	287.4	302.1	316.7	316.7
35°	2621.1	1732.0	528.6	331.3	294.8	277.7	270.4	277.7	292.3	306.9	306.9
37.5°	2706.4	1749.0	506.7	316.7	280.1	263.1	258.2	268.0	285.0	299.6	302.1
40°	2796.5	1763.6	482.3	302.1	270.4	250.9	248.5	258.2	280.1	294.8	297.2
42.5°	2908.5	1792.9	453.1	289.9	260.6	236.3	238.7	246.0	268.0	289.9	292.3
45°	3127.8	1885.4	423.9	277.7	248.5	229.0	224.1	229.0	253.3	277.7	282.6
47.5°	3539.5	2094.9	392.2	265.5	236.3	224.1	204.6	209.5	231.4	258.2	260.6
50°	4328.7	2540.7	375.1	253.3	226.5	207.1	185.1	185.1	202.2	226.5	226.5
52.5°	5558.9	3339.7	384.9	243.6	214.4	190.0	168.1	165.6	175.4	192.4	192.4
55°	6886.5	4216.6	421.4	233.9	199.7	180.3	155.9	143.7	151.0	160.8	160.8
57.5°	7938.8	4657.6	521.3	229.0	182.7	173.0	141.3	124.2	131.5	141.3	141.3
60°	8401.6	4399.3	633.3	233.9	170.5	160.8	126.7	109.6	121.8	131.5	134.0
62.5°	8026.5	3622.3	679.6	221.7	153.5	143.7	124.2	102.3	116.9	124.2	126.7
65°	7215.3	2752.6	531.0	192.4	141.3	124.2	112.1	97.4	109.6	116.9	116.9
66°	6830.4	2399.4	453.1	177.8	136.4	116.9	107.2	97.4	107.2	112.1	114.5
67.5°	6233.6	1892.7	336.2	155.9	126.7	107.2	99.9	92.6	102.3	107.2	107.2
70°	4874.4	1127.9	202.2	121.8	109.6	95.0	90.1	85.3	92.6	95.0	95.0
72.5°	3052.3	535.9	129.1	90.1	92.6	90.1	75.5	80.4	82.8	85.3	85.3
75°	1478.6	211.9	87.7	65.8	75.5	85.3	60.9	70.6	73.1	78.0	75.5
77.5°	411.7	102.3	56.0	48.7	65.8	65.8	46.3	56.0	65.8	82.8	75.5
80°	119.4	65.8	36.5	36.5	46.3	46.3	31.7	39.0	43.8	48.7	51.2
82.5°	82.8	43.8	24.4	26.8	26.8	29.2	19.5	19.5	24.4	24.4	26.8
85°	65.8	19.5	14.6	17.1	12.2	14.6	9.7	9.7	12.2	9.7	9.7
87.5°	26.8	9.7	9.7	9.7	7.3	7.3	4.9	2.4	2.4	2.4	2.4
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)