

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: P1210522

Luminaire Tested: **ARCH3-150-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-150-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14157 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 150.7
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



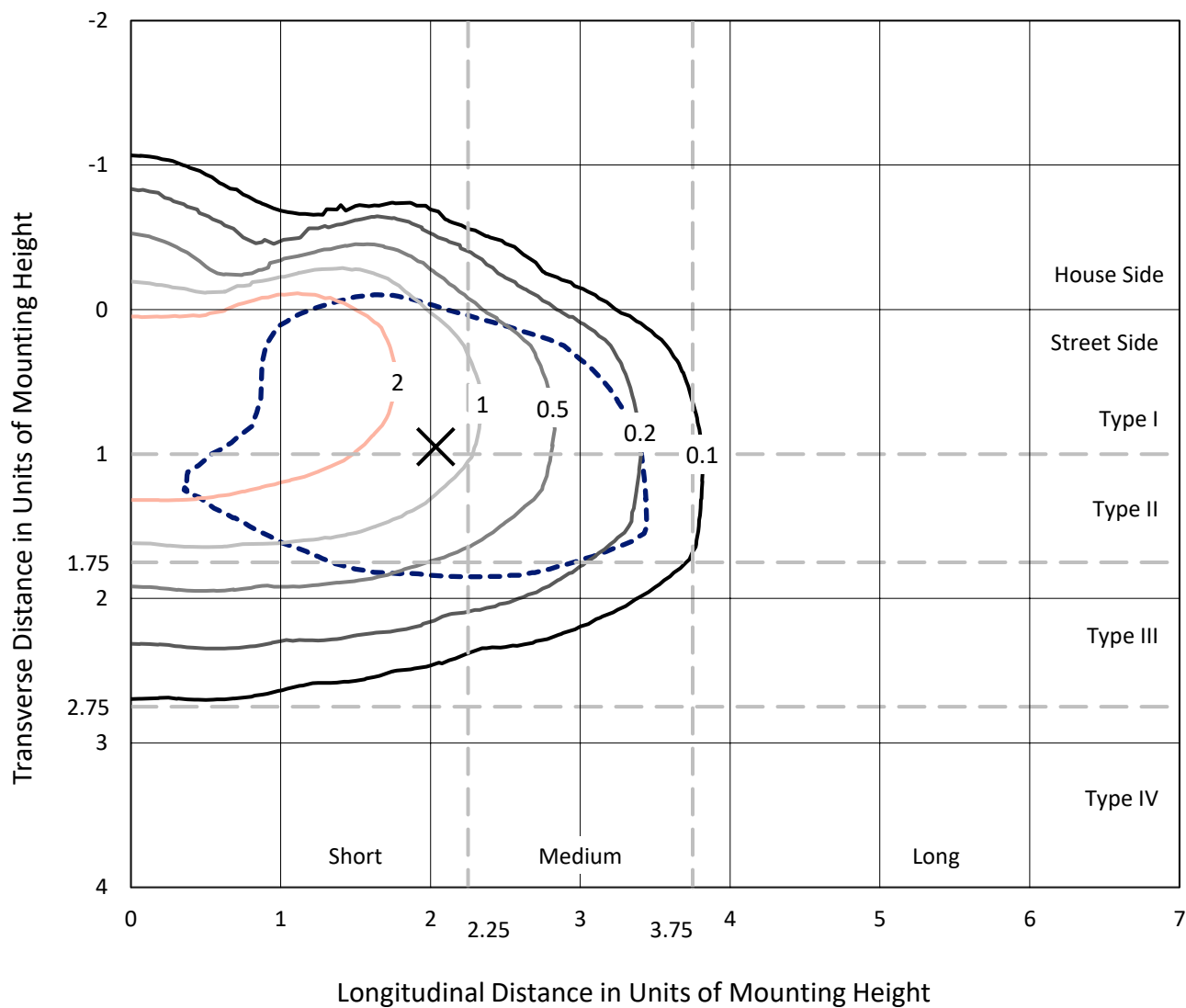
REPORT NUMBER: P1210522

CATALOG NUMBER: ARCH3-150-727-U-T3RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

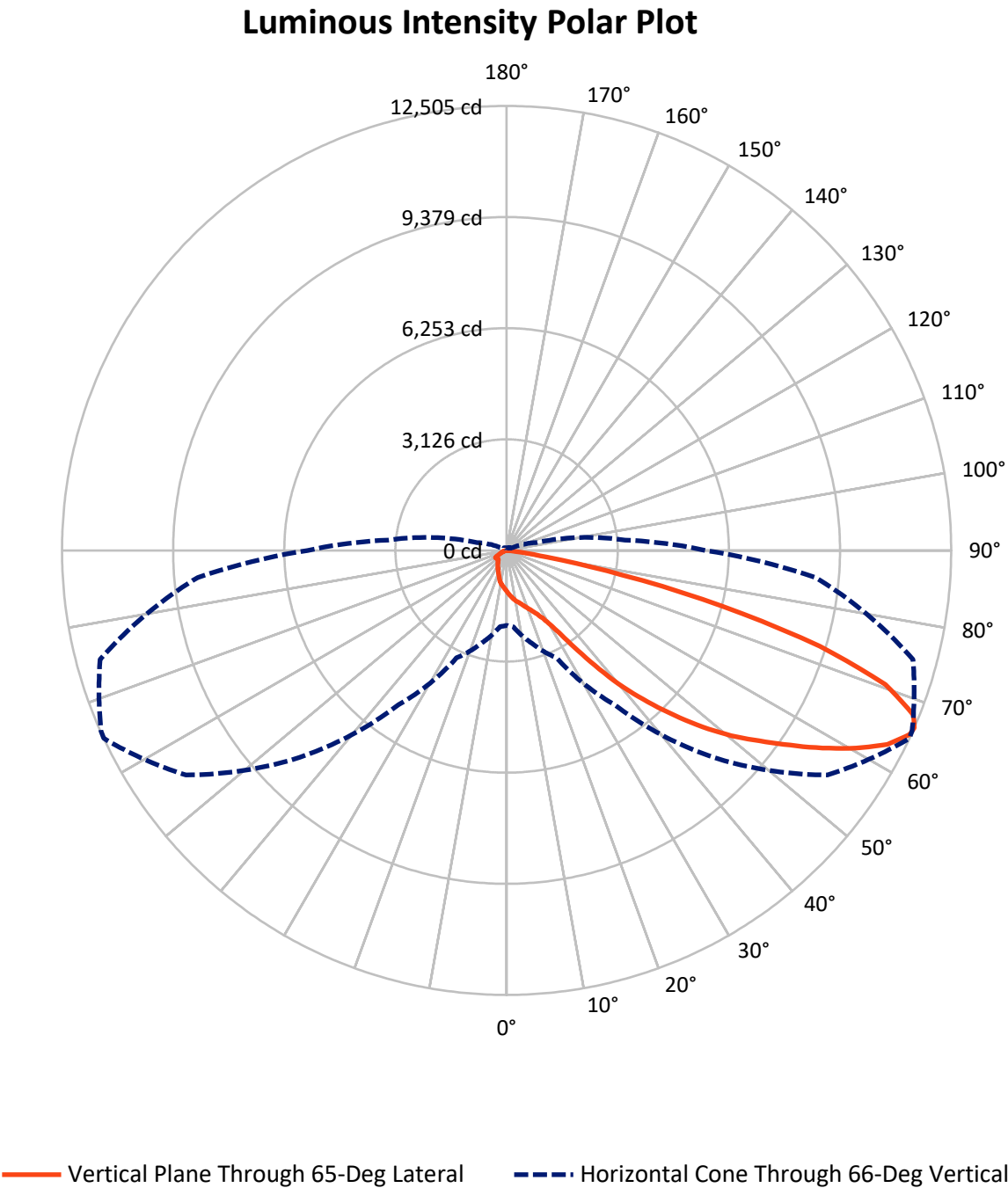
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

REPORT NUMBER: P1210522
CATALOG NUMBER: ARCH3-150-727-U-T3RE-HSS



REPORT NUMBER: P1210522

CATALOG NUMBER: ARCH3-150-727-U-T3RE-HSS

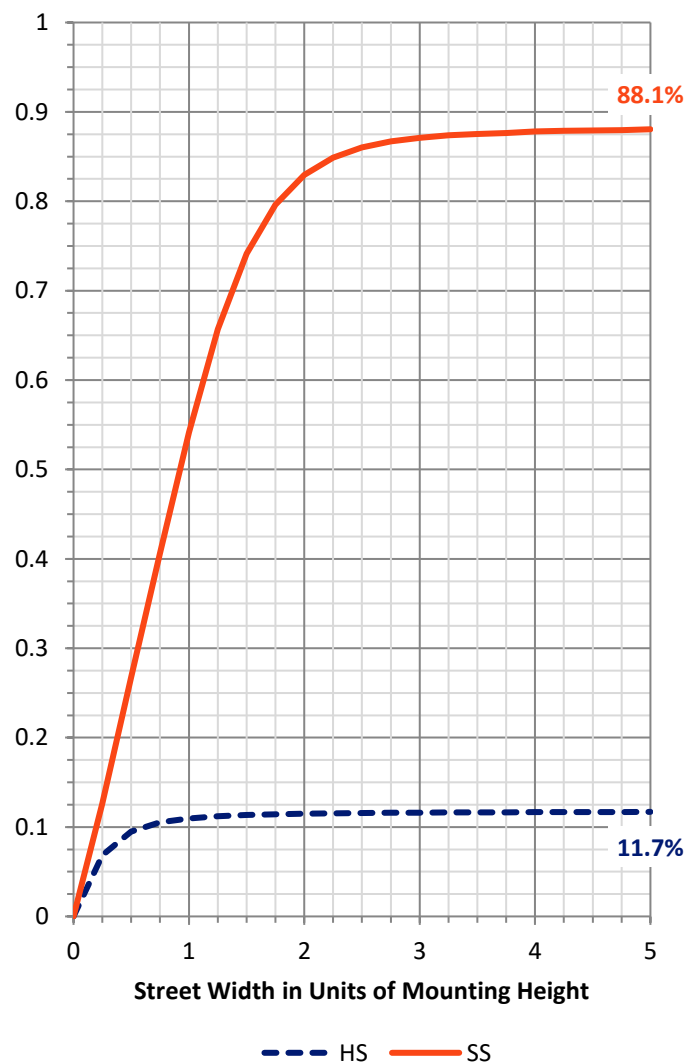
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1670.8	0.0	1670.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	12486.2	0.0	12486.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	14157.0	0.0	14157.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	0.8
10°-20°	323.7	2.3
20°-30°	592.5	4.2
30°-40°	1203.9	8.5
40°-50°	2542.2	18.0
50°-60°	3908.2	27.6
60°-70°	3933.9	27.8
70°-80°	1469.9	10.4
80°-90°	73.4	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°	14157.0	100.0
0°-180°	14157.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210522

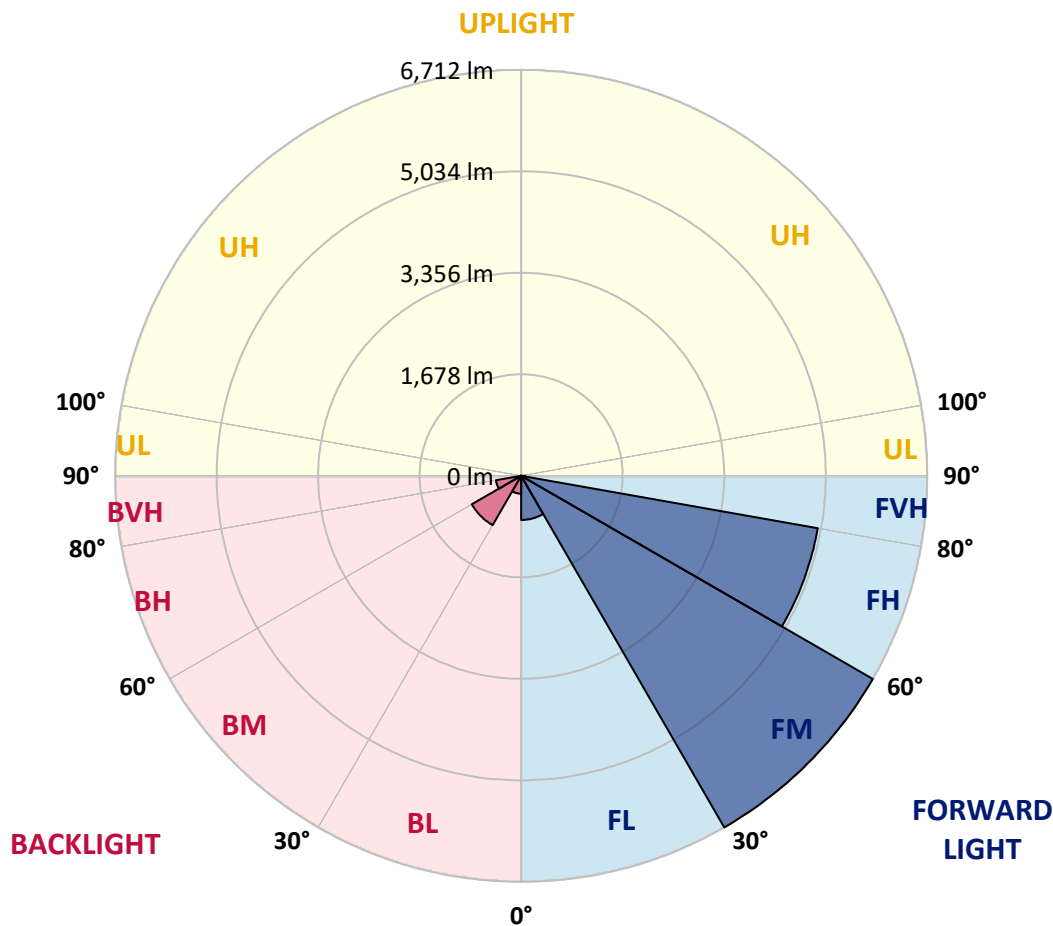
CATALOG NUMBER: ARCH3-150-727-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	729.8	5.2			
FM	(30°-60°)	6712.3	47.4			
FH	(60°-80°)	4979.4	35.2			G2/5000
FVH	(80°-90°)	64.8	0.5			G1/100
BL	(0°-30°)	295.7	2.1	B1/500		
BM	(30°-60°)	942.0	6.7	B1/1000		
BH	(60°-80°)	424.4	3.0	B1/500		G1/500
BVH	(80°-90°)	8.6	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 III Short



REPORT NUMBER: P1210522

CATALOG NUMBER: ARCH3-150-727-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4
2.5°	1315.2	1317.8	1312.7	1302.4	1292.1	1279.3	1258.7	1225.3	1220.2	1197.1	1171.4
5°	1405.1	1410.3	1402.6	1400.0	1394.9	1376.9	1348.6	1299.8	1294.7	1248.4	1189.4
7.5°	1436.0	1443.7	1438.5	1438.5	1438.5	1430.8	1418.0	1374.3	1366.6	1307.5	1217.6
10°	1459.1	1464.2	1461.7	1471.9	1479.6	1474.5	1466.8	1441.1	1433.4	1374.3	1256.1
12.5°	1495.0	1497.6	1500.2	1505.3	1518.2	1523.3	1520.7	1497.6	1492.5	1451.4	1305.0
15°	1528.4	1528.4	1531.0	1554.1	1572.1	1582.4	1585.0	1567.0	1561.8	1528.4	1366.6
17.5°	1559.3	1561.8	1569.5	1595.2	1626.1	1646.6	1659.5	1651.7	1644.0	1618.4	1438.5
20°	1605.5	1610.6	1618.4	1654.3	1685.1	1718.5	1744.2	1741.7	1739.1	1721.1	1523.3
22.5°	1685.1	1690.3	1703.1	1736.5	1767.3	1808.4	1852.1	1849.5	1841.8	1829.0	1623.5
25°	1805.9	1805.9	1813.6	1841.8	1880.4	1929.2	1970.3	1978.0	1970.3	1962.6	1749.4
27.5°	1957.4	1960.0	1960.0	1990.8	2026.8	2088.4	2139.8	2147.5	2147.5	2139.8	1918.9
30°	2168.1	2160.4	2155.2	2180.9	2219.5	2309.4	2399.3	2414.7	2407.0	2419.8	2157.8
32.5°	2530.3	2517.4	2473.8	2478.9	2502.0	2625.3	2776.9	2830.8	2828.3	2851.4	2543.1
35°	3031.2	3005.5	2941.3	2887.3	2884.8	3018.4	3249.5	3452.5	3449.9	3529.5	3128.8
37.5°	3596.3	3629.7	3509.0	3416.5	3388.3	3493.6	3791.6	4230.8	4254.0	4392.7	3896.9
40°	4351.6	4372.1	4218.0	4087.0	3953.4	3991.9	4385.0	5068.3	5109.4	5263.5	4665.0
42.5°	5009.2	5029.7	4939.8	4780.6	4611.0	4539.1	4983.5	5828.6	5862.0	6075.2	5456.2
45°	5456.2	5471.6	5502.4	5517.8	5325.2	5176.2	5715.6	6609.6	6650.7	6897.3	6229.4
47.5°	5805.5	5818.4	5880.0	6034.1	5995.6	5877.4	6460.6	7421.3	7431.6	7706.4	6982.0
50°	5967.4	5998.2	6149.7	6386.1	6555.6	6589.0	7269.7	8189.4	8217.6	8479.7	7693.6
52.5°	5787.5	5797.8	6180.6	6625.0	6966.6	7305.7	8081.5	8900.9	8983.1	9178.4	8333.2
55°	5181.3	5255.8	5836.3	6617.3	7290.3	7986.4	8949.7	9669.0	9743.5	9866.8	8895.8
57.5°	4477.4	4559.6	5266.1	6285.9	7429.0	8615.8	9753.8	10485.9	10537.3	10570.7	9412.1
60°	3868.6	3945.7	4672.7	5651.4	7290.3	9060.2	10501.3	11297.6	11341.3	11251.4	9671.6
62.5°	3121.1	3198.2	3930.3	4811.4	6745.7	9150.1	11056.2	12019.5	12037.5	11793.4	9512.3
65°	2353.0	2404.4	3015.8	3771.0	5792.7	8672.3	11182.0	12469.0	12451.0	11950.1	9034.5
66°	2109.0	2152.7	2692.1	3334.3	5296.9	8235.6	11012.5	12505.0	12487.0	11834.5	8721.1
67.5°	1818.7	1831.6	2276.0	2728.1	4431.2	7308.3	10496.2	12340.6	12356.0	11516.0	8148.3
70°	1420.6	1418.0	1674.9	1898.4	3026.1	5199.3	8754.5	11305.3	11379.8	10313.8	6948.6
72.5°	909.4	878.5	1027.5	1161.1	1762.2	3018.4	6383.5	9214.3	9340.2	8102.0	5176.2
75°	542.0	511.2	547.2	580.6	845.1	1451.4	3753.0	6270.5	6391.2	5194.1	3080.0
77.5°	405.9	393.0	395.6	367.3	375.0	544.6	1713.4	3313.8	3401.1	2127.0	1168.8
80°	310.8	277.4	259.5	272.3	246.6	215.8	637.1	1140.6	1194.5	503.5	244.0
82.5°	208.1	179.8	167.0	182.4	156.7	120.7	154.1	220.9	215.8	136.1	95.0
85°	107.9	92.5	92.5	92.5	79.6	59.1	66.8	89.9	89.9	71.9	56.5
87.5°	30.8	28.3	33.4	30.8	23.1	23.1	25.7	30.8	30.8	28.3	25.7
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: P1210522

CATALOG NUMBER: ARCH3-150-727-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4
2.5°	1150.8	1140.6	1112.3	1091.7	1071.2	1053.2	1032.7	1027.5	1017.3	1019.8	1014.7
5°	1158.5	1130.3	1081.5	1035.2	999.3	968.4	929.9	914.5	893.9	886.2	881.1
7.5°	1168.8	1127.7	1055.8	991.6	929.9	868.3	806.6	770.6	747.5	737.2	729.5
10°	1191.9	1138.0	1042.9	942.8	837.4	750.1	688.4	662.8	647.3	644.8	642.2
12.5°	1222.8	1153.4	1030.1	881.1	742.4	660.2	621.7	613.9	611.4	611.4	608.8
15°	1269.0	1179.1	1009.5	809.2	667.9	611.4	593.4	580.6	575.4	575.4	575.4
17.5°	1315.2	1209.9	978.7	734.7	616.5	580.6	562.6	554.9	549.7	552.3	549.7
20°	1374.3	1245.9	937.6	670.5	583.1	554.9	536.9	529.2	526.6	526.6	526.6
22.5°	1441.1	1287.0	886.2	621.7	554.9	529.2	511.2	503.5	498.3	500.9	500.9
25°	1531.0	1338.4	832.3	572.8	526.6	503.5	482.9	472.7	472.7	475.2	477.8
27.5°	1646.6	1400.0	778.4	542.0	500.9	477.8	454.7	444.4	447.0	452.1	452.1
30°	1816.2	1484.8	724.4	508.6	472.7	447.0	426.4	416.1	421.3	431.6	431.6
32.5°	2057.6	1623.5	678.2	470.1	431.6	403.3	382.8	375.0	387.9	408.4	408.4
35°	2489.2	1877.8	649.9	431.6	387.9	354.5	328.8	321.1	339.1	364.8	364.8
37.5°	3067.2	2286.2	660.2	398.2	351.9	313.4	285.1	274.9	287.7	310.8	318.5
40°	3711.9	2779.5	750.1	369.9	318.5	280.0	251.7	241.5	249.2	259.5	262.0
42.5°	4356.7	3303.5	919.6	349.4	292.8	251.7	226.1	218.3	223.5	226.1	228.6
45°	4998.9	3822.4	1132.8	336.5	269.7	228.6	202.9	202.9	205.5	205.5	205.5
47.5°	5607.7	4328.5	1356.3	333.9	249.2	205.5	185.0	187.5	187.5	190.1	190.1
50°	6183.1	4780.6	1582.4	341.7	231.2	185.0	169.5	169.5	169.5	172.1	169.5
52.5°	6663.5	5176.2	1818.7	354.5	213.2	169.5	154.1	154.1	154.1	156.7	154.1
55°	7118.2	5535.8	2060.2	372.5	197.8	156.7	141.3	136.1	136.1	138.7	136.1
57.5°	7488.1	5774.7	2288.8	375.0	185.0	143.9	131.0	123.3	123.3	123.3	123.3
60°	7503.5	5636.0	2355.6	328.8	169.5	131.0	118.2	107.9	110.5	110.5	110.5
62.5°	7012.9	4906.4	1893.2	246.6	151.6	118.2	107.9	97.6	97.6	97.6	97.6
65°	6049.6	3817.3	1109.7	195.2	131.0	105.3	95.0	87.3	87.3	87.3	84.8
66°	5597.4	3347.2	850.3	177.2	123.3	102.8	92.5	84.8	82.2	79.6	79.6
67.5°	4860.2	2645.9	531.7	156.7	113.0	95.0	84.8	77.1	74.5	71.9	71.9
70°	3660.6	1680.0	259.5	120.7	97.6	82.2	74.5	66.8	64.2	61.7	59.1
72.5°	2568.8	983.9	136.1	92.5	79.6	71.9	64.2	56.5	53.9	51.4	51.4
75°	1451.4	475.2	89.9	66.8	64.2	59.1	53.9	46.2	43.7	43.7	43.7
77.5°	549.7	164.4	61.7	48.8	51.4	46.2	38.5	38.5	36.0	38.5	36.0
80°	143.9	71.9	38.5	36.0	38.5	33.4	28.3	30.8	30.8	30.8	30.8
82.5°	77.1	41.1	23.1	25.7	23.1	23.1	18.0	20.6	23.1	20.6	23.1
85°	53.9	20.6	12.8	12.8	10.3	10.3	7.7	10.3	12.8	10.3	10.3
87.5°	28.3	7.7	7.7	7.7	7.7	5.1	2.6	0.0	2.6	2.6	2.6
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)