

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: P1211102

Luminaire Tested: **ARCH4-170-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211102
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: ARCH4-170-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18741 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 169.8
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



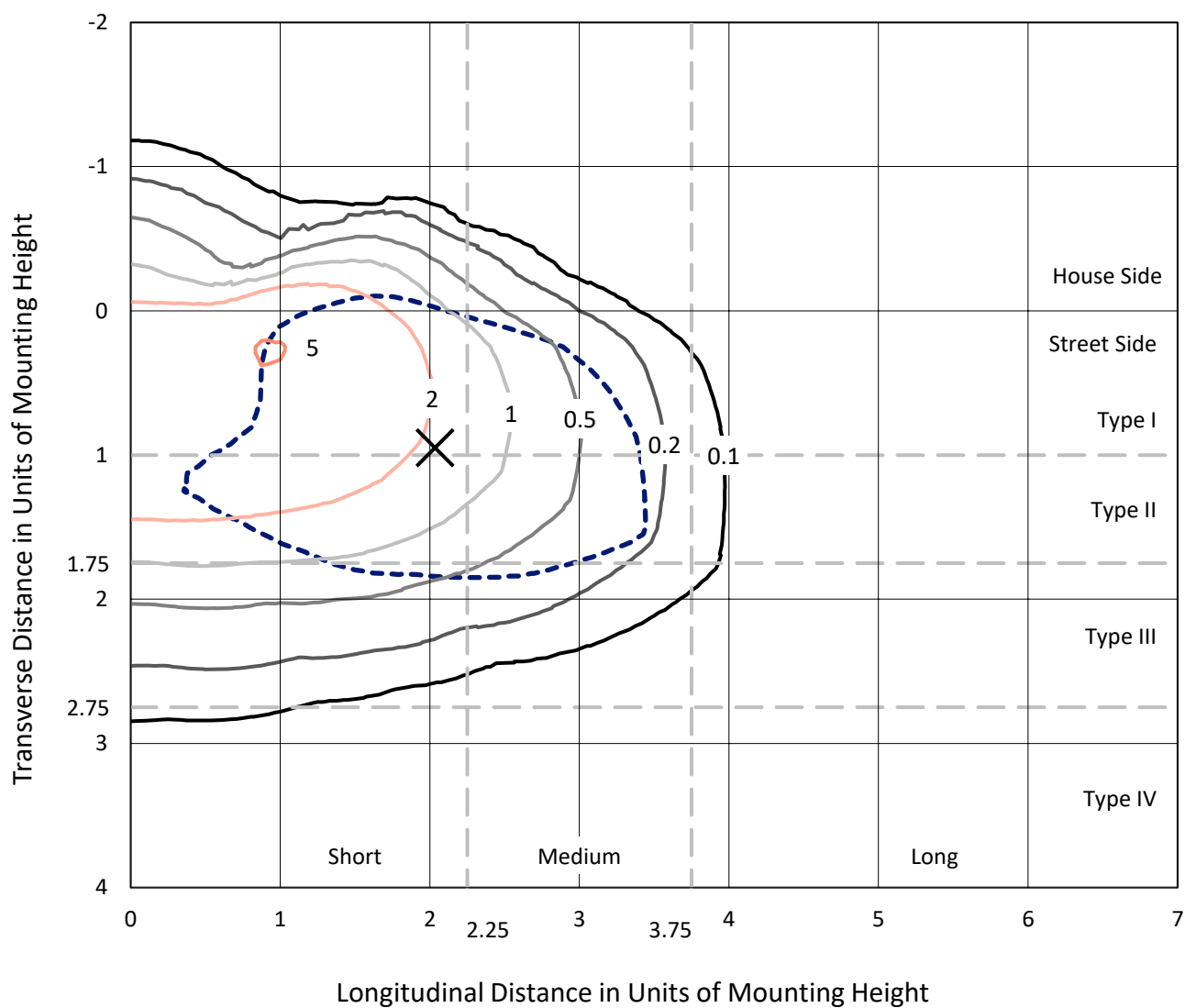
REPORT NUMBER: P1211102

CATALOG NUMBER: ARCH4-170-730-U-T3RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

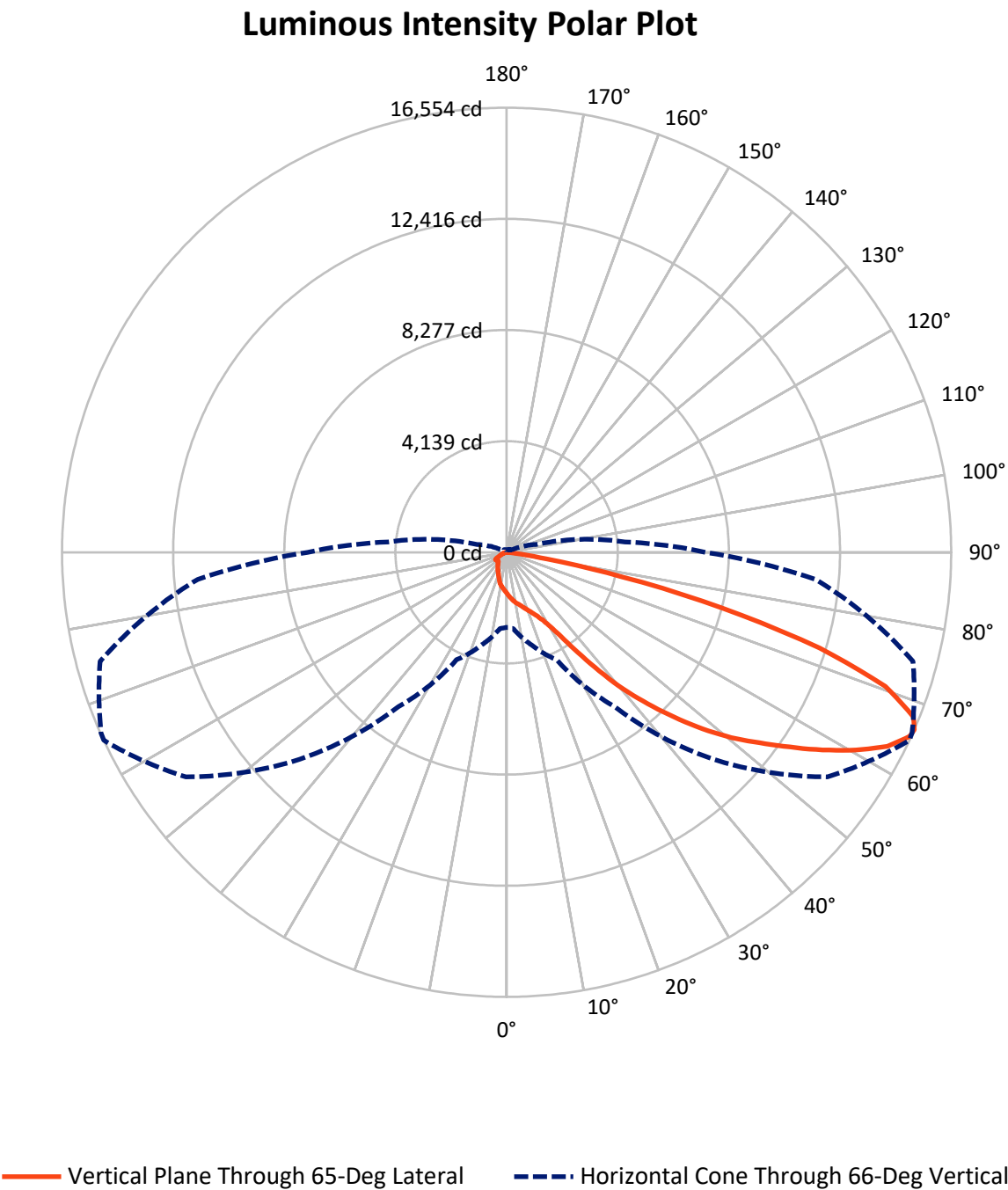
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type III - Short - N/A

REPORT NUMBER: P1211102
CATALOG NUMBER: ARCH4-170-730-U-T3RE-HSS



REPORT NUMBER: P1211102

CATALOG NUMBER: ARCH4-170-730-U-T3RE-HSS

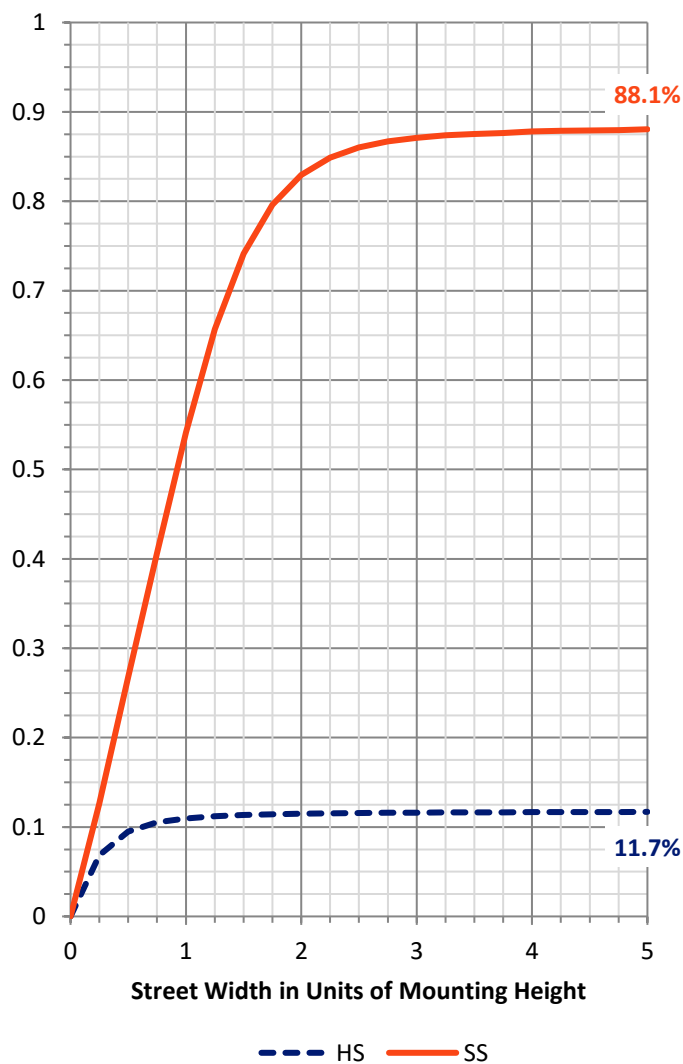
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2211.8	0.0	2211.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	16529.2	0.0	16529.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	18741.0	0.0	18741.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	0.8
10°-20°	428.5	2.3
20°-30°	784.3	4.2
30°-40°	1593.7	8.5
40°-50°	3365.4	18.0
50°-60°	5173.7	27.6
60°-70°	5207.7	27.8
70°-80°	1945.9	10.4
80°-90°	97.2	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°	18741.0	100.0
0°-180°	18741.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211102

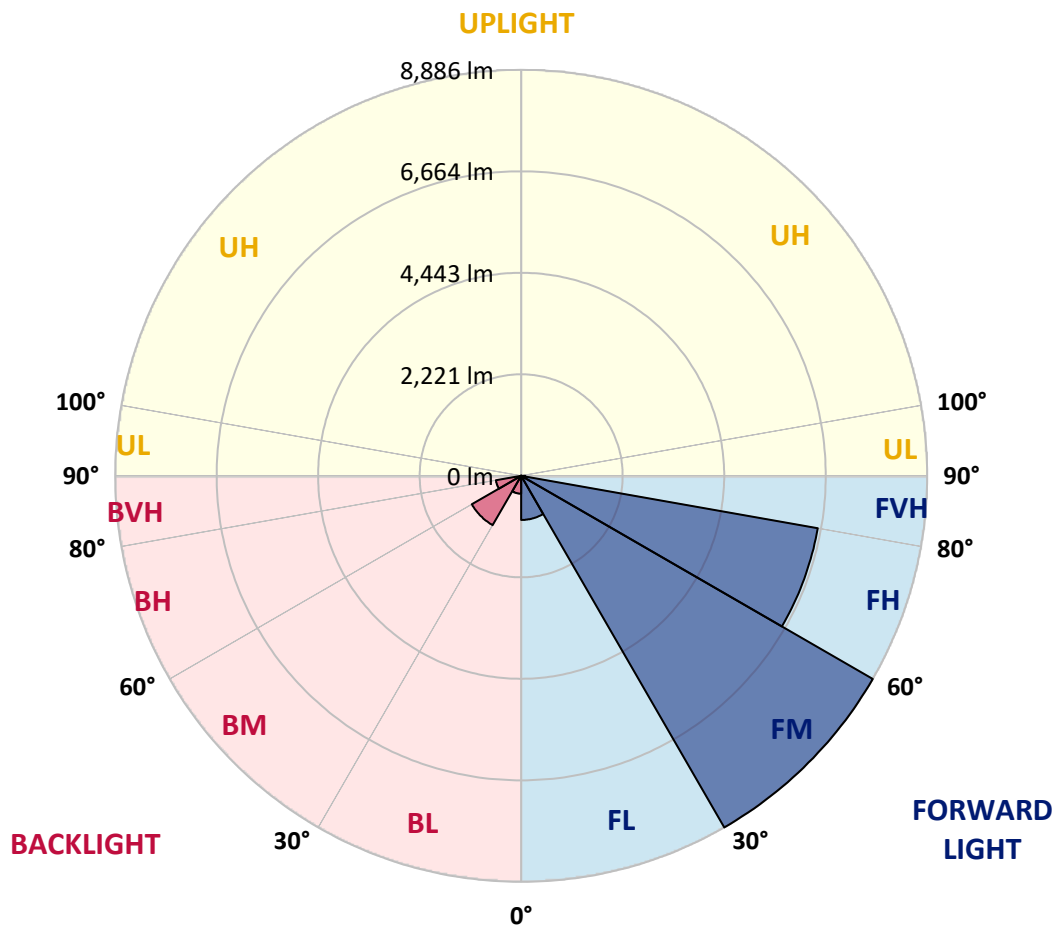
CATALOG NUMBER: ARCH4-170-730-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	966.1	5.2			
FM	(30°-60°)	8885.7	47.4			
FH	(60°-80°)	6591.7	35.2			G3/7500
FVH	(80°-90°)	85.8	0.5			G1/100
BL	(0°-30°)	391.5	2.1	B1/500		
BM	(30°-60°)	1247.0	6.7	B2/2500		
BH	(60°-80°)	561.9	3.0	B2/1000		G2/1000
BVH	(80°-90°)	11.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



REPORT NUMBER: P1211102

CATALOG NUMBER: ARCH4-170-730-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1741.1	1744.5	1737.7	1724.1	1710.5	1693.5	1666.3	1622.1	1615.3	1584.7	1550.7
5°	1860.1	1866.9	1856.7	1853.3	1846.5	1822.7	1785.3	1720.7	1713.9	1652.7	1574.5
7.5°	1900.9	1911.1	1904.3	1904.3	1904.3	1894.1	1877.1	1819.3	1809.1	1730.9	1611.9
10°	1931.5	1938.3	1934.9	1948.5	1958.7	1951.9	1941.7	1907.7	1897.5	1819.3	1662.9
12.5°	1979.1	1982.5	1985.9	1992.7	2009.7	2016.5	2013.1	1982.5	1975.7	1921.3	1727.5
15°	2023.4	2023.4	2026.8	2057.4	2081.2	2094.8	2098.2	2074.4	2067.6	2023.4	1809.1
17.5°	2064.2	2067.6	2077.8	2111.8	2152.6	2179.8	2196.8	2186.6	2176.4	2142.4	1904.3
20°	2125.4	2132.2	2142.4	2190.0	2230.8	2275.0	2309.0	2305.6	2302.2	2278.4	2016.5
22.5°	2230.8	2237.6	2254.6	2298.8	2339.6	2394.0	2451.8	2448.4	2438.2	2421.2	2149.2
25°	2390.6	2390.6	2400.8	2438.2	2489.2	2553.8	2608.3	2618.5	2608.3	2598.0	2315.8
27.5°	2591.2	2594.6	2594.6	2635.5	2683.1	2764.7	2832.7	2842.9	2842.9	2832.7	2540.2
30°	2870.1	2859.9	2853.1	2887.1	2938.1	3057.1	3176.1	3196.6	3186.4	3203.4	2856.5
32.5°	3349.6	3332.6	3274.8	3281.6	3312.2	3475.4	3676.0	3747.4	3744.0	3774.7	3366.6
35°	4012.7	3978.7	3893.7	3822.3	3818.9	3995.7	4301.7	4570.4	4567.0	4672.4	4141.9
37.5°	4760.8	4805.0	4645.2	4522.8	4485.4	4624.8	5019.3	5600.8	5631.4	5815.0	5158.7
40°	5760.6	5787.8	5583.8	5410.3	5233.5	5284.5	5804.8	6709.4	6763.8	6967.8	6175.5
42.5°	6631.1	6658.4	6539.3	6328.5	6104.1	6008.8	6597.1	7715.9	7760.1	8042.4	7222.8
45°	7222.8	7243.3	7284.1	7304.5	7049.4	6852.2	7566.3	8749.7	8804.1	9130.6	8246.4
47.5°	7685.3	7702.3	7783.9	7988.0	7937.0	7780.5	8552.5	9824.3	9837.9	10201.8	9242.8
50°	7899.6	7940.4	8141.0	8453.9	8678.3	8722.5	9623.7	10841.1	10878.5	11225.3	10184.8
52.5°	7661.5	7675.1	8181.8	8770.1	9222.4	9671.3	10698.3	11783.0	11891.9	12150.3	11031.5
55°	6859.0	6957.6	7726.1	8759.9	9650.9	10572.4	11847.7	12799.8	12898.4	13061.7	11776.2
57.5°	5927.2	6036.0	6971.2	8321.2	9834.5	11405.6	12912.0	13881.2	13949.2	13993.4	12459.8
60°	5121.3	5223.3	6185.7	7481.3	9650.9	11993.9	13901.6	14955.8	15013.6	14894.6	12803.2
62.5°	4131.7	4233.7	5202.9	6369.3	8929.9	12112.9	14636.1	15911.4	15935.2	15612.1	12592.4
65°	3114.9	3183.0	3992.3	4992.1	7668.3	11480.4	14802.8	16506.5	16482.7	15819.5	11959.9
66°	2791.9	2849.7	3563.8	4414.0	7012.0	10902.3	14578.3	16554.1	16530.3	15666.5	11545.0
67.5°	2407.6	2424.6	3012.9	3611.4	5866.0	9674.7	13894.8	16336.4	16356.8	15244.8	10786.7
70°	1880.5	1877.1	2217.2	2513.0	4005.9	6882.8	11589.2	14966.0	15064.6	13653.4	9198.6
72.5°	1203.8	1163.0	1360.2	1537.1	2332.8	3995.7	8450.5	12197.9	12364.5	10725.5	6852.2
75°	717.5	676.7	724.3	768.5	1118.8	1921.3	4968.3	8300.8	8460.7	6876.0	4077.3
77.5°	537.3	520.3	523.7	486.3	496.5	720.9	2268.2	4386.8	4502.4	2815.7	1547.3
80°	411.5	367.3	343.5	360.5	326.5	285.6	843.3	1509.9	1581.3	666.5	323.1
82.5°	275.4	238.0	221.0	241.4	207.4	159.8	204.0	292.5	285.6	180.2	125.8
85°	142.8	122.4	122.4	122.4	105.4	78.2	88.4	119.0	119.0	95.2	74.8
87.5°	40.8	37.4	44.2	40.8	30.6	30.6	34.0	40.8	40.8	37.4	34.0
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: P1211102

CATALOG NUMBER: ARCH4-170-730-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1523.5	1509.9	1472.5	1445.3	1418.0	1394.2	1367.0	1360.2	1346.6	1350.0	1343.2
5°	1533.7	1496.3	1431.6	1370.4	1322.8	1282.0	1231.0	1210.6	1183.4	1173.2	1166.4
7.5°	1547.3	1492.9	1397.6	1312.6	1231.0	1149.4	1067.8	1020.2	989.6	976.0	965.8
10°	1577.9	1506.5	1380.6	1248.0	1108.6	993.0	911.4	877.4	856.9	853.5	850.1
12.5°	1618.7	1526.9	1363.6	1166.4	982.8	874.0	822.9	812.7	809.3	809.3	805.9
15°	1679.9	1560.9	1336.4	1071.2	884.2	809.3	785.5	768.5	761.7	761.7	761.7
17.5°	1741.1	1601.7	1295.6	972.6	816.1	768.5	744.7	734.5	727.7	731.1	727.7
20°	1819.3	1649.3	1241.2	887.6	771.9	734.5	710.7	700.5	697.1	697.1	697.1
22.5°	1907.7	1703.7	1173.2	822.9	734.5	700.5	676.7	666.5	659.7	663.1	663.1
25°	2026.8	1771.7	1101.8	758.3	697.1	666.5	639.3	625.7	625.7	629.1	632.5
27.5°	2179.8	1853.3	1030.4	717.5	663.1	632.5	601.9	588.3	591.7	598.5	598.5
30°	2404.2	1965.5	959.0	673.3	625.7	591.7	564.5	550.9	557.7	571.3	571.3
32.5°	2723.9	2149.2	897.8	622.3	571.3	533.9	506.7	496.5	513.5	540.7	540.7
35°	3295.2	2485.8	860.3	571.3	513.5	469.3	435.3	425.1	448.9	482.9	482.9
37.5°	4060.3	3026.5	874.0	527.1	465.9	414.9	377.5	363.9	380.9	411.5	421.7
40°	4913.9	3679.4	993.0	489.7	421.7	370.7	333.3	319.7	329.9	343.5	346.9
42.5°	5767.4	4373.2	1217.4	462.5	387.7	333.3	299.3	289.1	295.9	299.3	302.7
45°	6617.5	5060.1	1499.7	445.5	357.1	302.7	268.6	268.6	272.0	272.0	272.0
47.5°	7423.5	5730.0	1795.5	442.1	329.9	272.0	244.8	248.2	248.2	251.6	251.6
50°	8185.2	6328.5	2094.8	452.3	306.1	244.8	224.4	224.4	224.4	227.8	224.4
52.5°	8821.1	6852.2	2407.6	469.3	282.2	224.4	204.0	204.0	204.0	207.4	204.0
55°	9423.0	7328.3	2727.3	493.1	261.8	207.4	187.0	180.2	180.2	183.6	180.2
57.5°	9912.7	7644.5	3029.9	496.5	244.8	190.4	173.4	163.2	163.2	163.2	163.2
60°	9933.1	7460.9	3118.3	435.3	224.4	173.4	156.4	142.8	146.2	146.2	146.2
62.5°	9283.6	6495.1	2506.2	326.5	200.6	156.4	142.8	129.2	129.2	129.2	129.2
65°	8008.4	5053.3	1469.1	258.4	173.4	139.4	125.8	115.6	115.6	115.6	112.2
66°	7409.9	4431.0	1125.6	234.6	163.2	136.0	122.4	112.2	108.8	105.4	105.4
67.5°	6433.9	3502.6	703.9	207.4	149.6	125.8	112.2	102.0	98.6	95.2	95.2
70°	4845.8	2224.0	343.5	159.8	129.2	108.8	98.6	88.4	85.0	81.6	78.2
72.5°	3400.6	1302.4	180.2	122.4	105.4	95.2	85.0	74.8	71.4	68.0	68.0
75°	1921.3	629.1	119.0	88.4	85.0	78.2	71.4	61.2	57.8	57.8	57.8
77.5°	727.7	217.6	81.6	64.6	68.0	61.2	51.0	51.0	47.6	51.0	47.6
80°	190.4	95.2	51.0	47.6	51.0	44.2	37.4	40.8	40.8	40.8	40.8
82.5°	102.0	54.4	30.6	34.0	30.6	30.6	23.8	27.2	30.6	27.2	30.6
85°	71.4	27.2	17.0	17.0	13.6	13.6	10.2	13.6	17.0	13.6	13.6
87.5°	37.4	10.2	10.2	10.2	10.2	6.8	3.4	0.0	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

(END OF REPORT)