

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: McGRAW-EDISON

Report Number: P#

Luminaire Tested: **ARCH4-110-AMB-U-T2R-HSS**

Issue Date: 12/16/2024

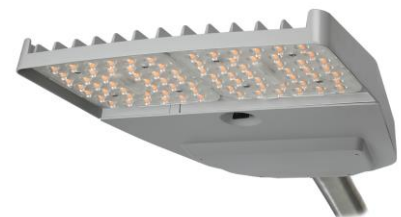
Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-129-5)
Test Lab: INNOVATION CENTER
Issue Date: 12/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ARCH4-110-AMB-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) NARROW BAND AMBER, 600mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

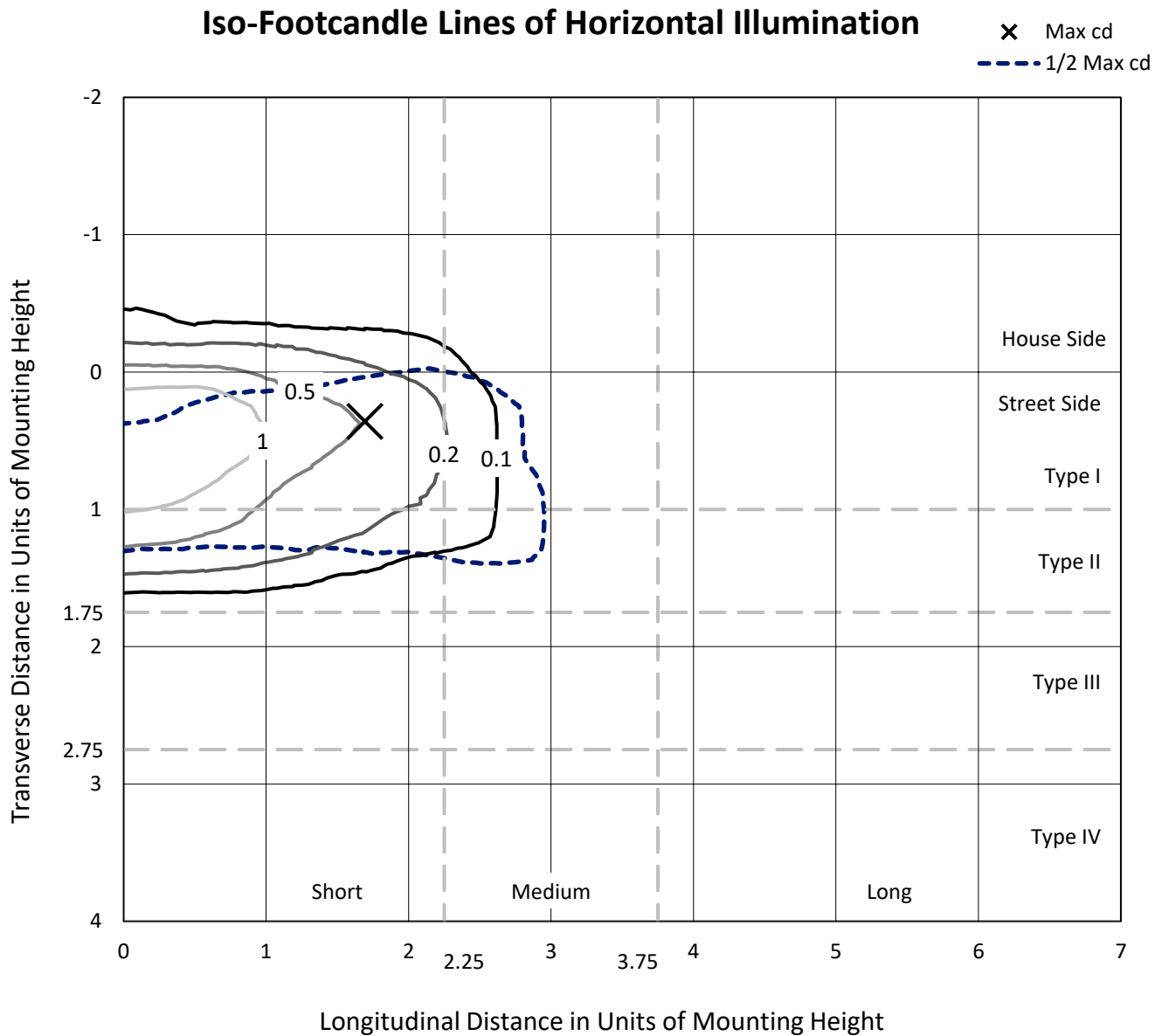
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3281 lumens
Efficiency: N/A
Efficacy: 29.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 112.6
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



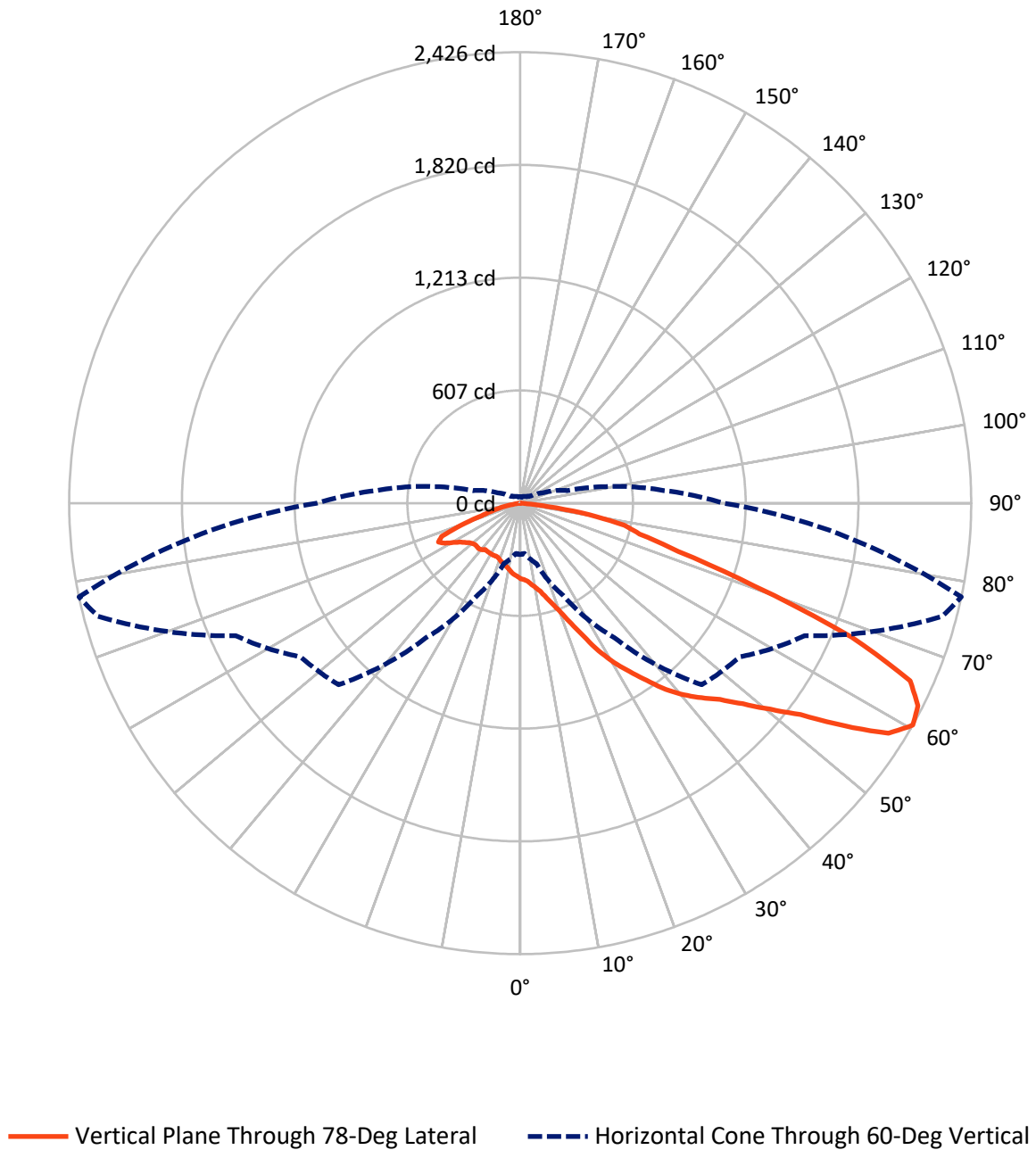
REPORT NUMBER: P#
CATALOG NUMBER: ARCH4-110-AMB-U-T2R-HSS



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type II - Short - N/A

REPORT NUMBER: P#
CATALOG NUMBER: ARCH4-110-AMB-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P#

CATALOG NUMBER: ARCH4-110-AMB-U-T2R-HSS

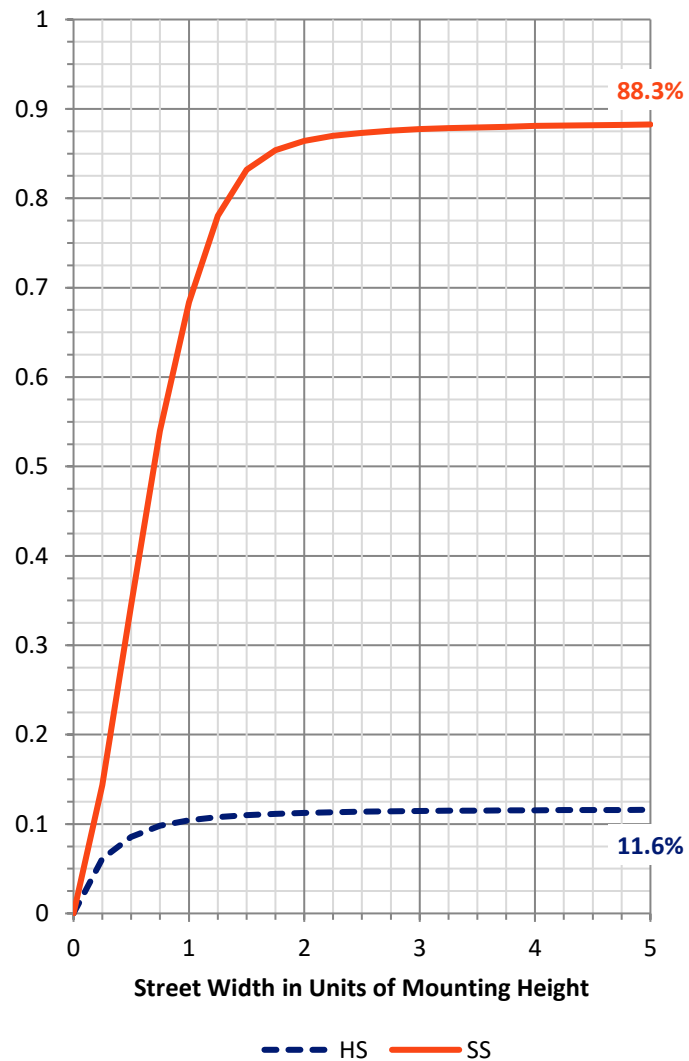
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	383.9	0.0	383.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	2897.1	0.0	2897.1
	% Fixture	88.3	0.0	88.3
Total	Lumens	3281.0	0.0	3281.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	1.2
10°-20°	146.2	4.5
20°-30°	304.5	9.3
30°-40°	548.8	16.7
40°-50°	730.5	22.3
50°-60°	706.2	21.5
60°-70°	556.8	17.0
70°-80°	223.8	6.8
80°-90°	24.8	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°	3281.0	100.0
0°-180°	3281.0	100.0

Coefficient of Utilization



REPORT NUMBER: P#

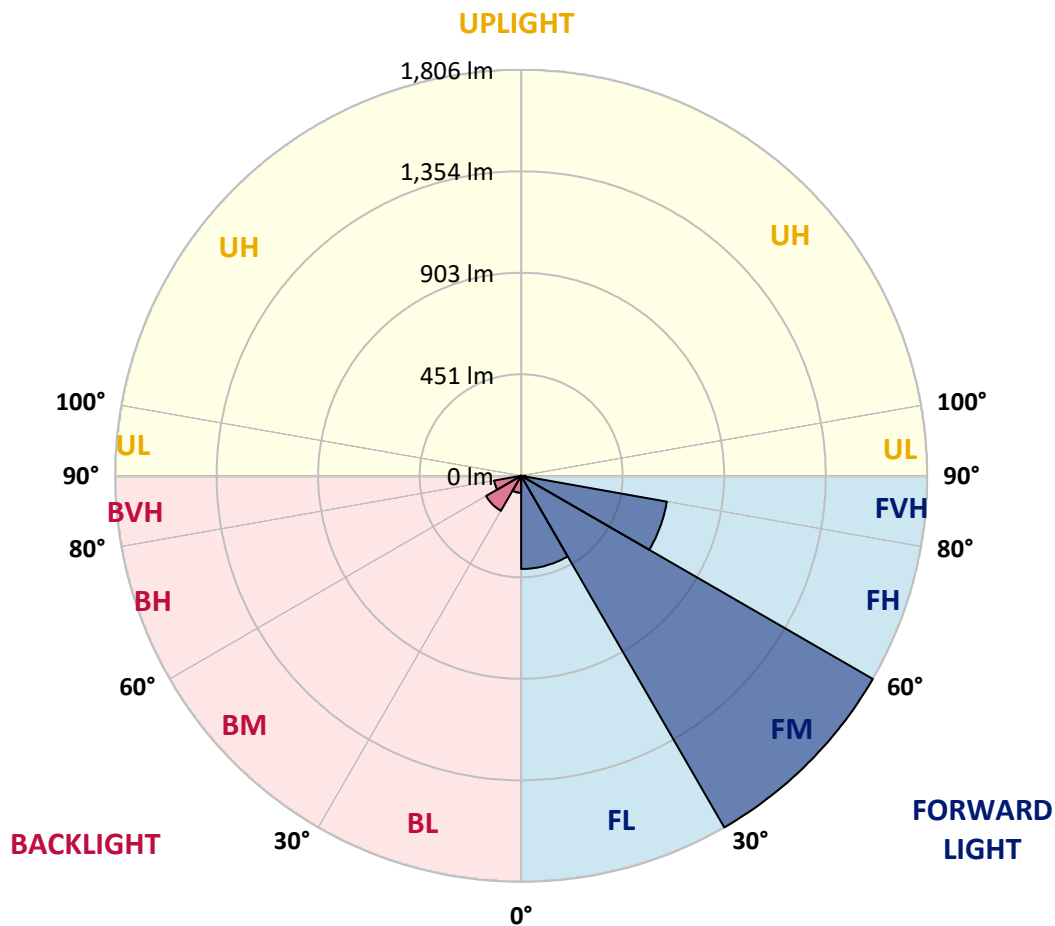
CATALOG NUMBER: ARCH4-110-AMB-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	414.1	12.6			
FM	(30°-60°)	1805.6	55.0			
FH	(60°-80°)	658.3	20.1			G0/660
FVH	(80°-90°)	19.1	0.6			G1/100
BL	(0°-30°)	75.9	2.3	B0/110		
BM	(30°-60°)	179.9	5.5	B0/220		
BH	(60°-80°)	122.3	3.7	B1/500		G1/500
BVH	(80°-90°)	5.7	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 II Short



REPORT NUMBER: P#

CATALOG NUMBER: ARCH4-110-AMB-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	406.9	406.9	406.9	406.9	406.9	406.9	406.9	406.9	406.9	406.9	406.9
2.5°	447.1	452.1	452.1	447.1	442.0	437.0	427.0	421.9	411.9	411.9	406.9
5°	542.5	547.5	542.5	532.5	512.4	492.3	467.2	447.1	427.0	421.9	411.9
7.5°	653.0	663.1	653.0	637.9	612.8	572.6	527.4	487.2	447.1	442.0	421.9
10°	783.6	793.7	778.6	748.4	713.3	663.1	612.8	537.5	477.2	462.1	432.0
12.5°	939.3	949.4	924.3	884.1	828.8	763.5	698.2	607.8	512.4	487.2	447.1
15°	1064.9	1074.9	1059.9	1019.7	969.5	889.1	798.7	693.2	567.6	527.4	467.2
17.5°	1135.2	1145.3	1140.3	1120.2	1085.0	1014.7	909.2	778.6	627.9	572.6	487.2
20°	1190.5	1195.5	1195.5	1170.4	1155.3	1120.2	1024.7	874.0	698.2	627.9	507.3
22.5°	1260.8	1270.9	1255.8	1230.7	1200.5	1195.5	1125.2	979.5	783.6	703.2	537.5
25°	1361.3	1366.3	1336.2	1296.0	1260.8	1240.7	1210.6	1085.0	879.0	793.7	587.7
27.5°	1512.0	1512.0	1476.8	1401.5	1331.1	1290.9	1285.9	1200.5	984.5	899.1	648.0
30°	1722.9	1722.9	1667.7	1552.1	1436.6	1361.3	1331.1	1301.0	1090.0	994.6	703.2
32.5°	1964.0	1964.0	1893.7	1748.0	1572.2	1446.7	1401.5	1371.3	1185.5	1080.0	753.5
35°	2134.8	2134.8	2089.6	1938.9	1733.0	1567.2	1486.8	1456.7	1285.9	1170.4	803.7
37.5°	2139.9	2144.9	2165.0	2059.5	1893.7	1738.0	1597.4	1557.2	1376.3	1270.9	869.0
40°	2039.4	2029.3	2084.6	2049.4	1979.1	1898.7	1743.0	1672.7	1466.8	1356.2	924.3
42.5°	1928.9	1913.8	1959.0	1954.0	1933.9	1959.0	1908.8	1778.2	1567.2	1431.6	949.4
45°	1843.5	1823.4	1823.4	1828.4	1833.4	1903.8	1999.2	1913.8	1657.6	1506.9	984.5
47.5°	1743.0	1712.9	1702.8	1687.8	1707.9	1753.1	1989.2	2064.5	1773.2	1612.4	1034.8
50°	1587.3	1552.1	1567.2	1562.2	1612.4	1602.4	1858.6	2124.8	1918.8	1743.0	1110.1
52.5°	1215.6	1175.4	1316.1	1436.6	1542.1	1501.9	1652.6	2094.6	2114.7	1888.7	1200.5
55°	793.7	773.6	904.2	1150.3	1451.7	1461.7	1481.8	1984.1	2290.5	2114.7	1311.0
57.5°	457.1	442.0	572.6	823.8	1205.6	1471.8	1411.5	1813.3	2365.9	2335.8	1471.8
60°	276.3	271.2	336.5	547.5	884.1	1381.4	1441.6	1687.8	2350.8	2426.2	1667.7
62.5°	195.9	195.9	221.0	356.6	587.7	1064.9	1532.1	1677.7	2335.8	2401.1	1793.3
65°	150.7	145.7	165.8	236.1	391.8	703.2	1441.6	1803.3	2210.2	2305.6	1828.4
67.5°	115.5	115.5	130.6	165.8	281.3	427.0	1004.6	2069.5	1954.0	1923.9	1587.3
70°	95.4	95.4	105.5	130.6	205.9	291.3	597.8	1873.6	1466.8	1336.2	1235.7
72.5°	75.3	75.3	85.4	105.5	160.7	200.9	316.5	1260.8	1085.0	889.1	954.4
75°	55.3	55.3	65.3	85.4	120.6	135.6	180.8	708.3	864.0	663.1	788.6
77.5°	40.2	40.2	50.2	60.3	80.4	90.4	100.5	346.6	843.9	572.6	567.6
80°	20.1	25.1	30.1	45.2	45.2	50.2	55.3	115.5	572.6	376.7	286.3
82.5°	15.1	15.1	20.1	25.1	25.1	25.1	30.1	30.1	211.0	150.7	110.5
85°	5.0	10.0	10.0	10.0	15.1	10.0	15.1	10.0	45.2	35.2	45.2
87.5°	0.0	0.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
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: P#

CATALOG NUMBER: ARCH4-110-AMB-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	406.9	406.9	406.9	406.9	406.9	406.9	406.9	406.9	406.9	406.9	406.9
2.5°	406.9	401.9	391.8	381.8	376.7	371.7	361.7	356.6	351.6	351.6	356.6
5°	406.9	396.8	381.8	361.7	341.6	321.5	296.4	281.3	271.2	266.2	271.2
7.5°	411.9	396.8	366.7	326.5	291.3	256.2	216.0	190.9	175.8	170.8	170.8
10°	411.9	391.8	346.6	291.3	241.1	185.9	155.7	140.6	135.6	135.6	135.6
12.5°	421.9	391.8	331.5	256.2	185.9	145.7	130.6	120.6	120.6	120.6	120.6
15°	432.0	396.8	316.5	226.0	155.7	125.6	115.5	110.5	110.5	110.5	110.5
17.5°	442.0	396.8	306.4	190.9	135.6	115.5	110.5	105.5	100.5	100.5	100.5
20°	452.1	401.9	291.3	160.7	120.6	110.5	100.5	95.4	95.4	95.4	95.4
22.5°	467.2	406.9	276.3	140.6	110.5	100.5	95.4	90.4	90.4	85.4	90.4
25°	492.3	421.9	266.2	125.6	105.5	95.4	90.4	85.4	85.4	80.4	80.4
27.5°	537.5	452.1	256.2	120.6	100.5	90.4	85.4	80.4	80.4	75.3	75.3
30°	572.6	477.2	246.1	120.6	95.4	85.4	80.4	75.3	75.3	70.3	70.3
32.5°	602.8	497.3	236.1	125.6	95.4	85.4	75.3	75.3	70.3	70.3	70.3
35°	632.9	517.4	226.0	130.6	100.5	80.4	75.3	70.3	65.3	65.3	65.3
37.5°	673.1	537.5	216.0	135.6	105.5	80.4	70.3	65.3	60.3	60.3	60.3
40°	728.4	577.7	216.0	135.6	110.5	80.4	65.3	60.3	60.3	60.3	60.3
42.5°	733.4	587.7	221.0	135.6	110.5	80.4	65.3	60.3	55.3	55.3	55.3
45°	728.4	582.7	221.0	145.7	105.5	80.4	60.3	55.3	55.3	55.3	55.3
47.5°	758.5	592.7	216.0	150.7	95.4	75.3	55.3	55.3	55.3	50.2	50.2
50°	798.7	612.8	216.0	155.7	90.4	65.3	55.3	50.2	50.2	50.2	50.2
52.5°	848.9	637.9	221.0	160.7	85.4	60.3	50.2	50.2	50.2	45.2	45.2
55°	914.2	673.1	231.1	155.7	80.4	55.3	50.2	45.2	45.2	45.2	45.2
57.5°	999.6	718.3	241.1	145.7	75.3	50.2	45.2	45.2	40.2	40.2	35.2
60°	1095.0	778.6	261.2	130.6	65.3	50.2	45.2	40.2	35.2	35.2	35.2
62.5°	1200.5	859.0	286.3	95.4	55.3	45.2	40.2	35.2	30.1	30.1	30.1
65°	1255.8	944.3	291.3	65.3	45.2	40.2	40.2	35.2	30.1	25.1	25.1
67.5°	1155.3	919.2	261.2	50.2	40.2	35.2	35.2	30.1	25.1	25.1	25.1
70°	959.4	743.4	165.8	40.2	35.2	30.1	30.1	25.1	25.1	20.1	20.1
72.5°	708.3	542.5	80.4	35.2	30.1	30.1	25.1	25.1	20.1	20.1	20.1
75°	597.8	411.9	45.2	30.1	25.1	25.1	20.1	20.1	15.1	15.1	15.1
77.5°	517.4	296.4	30.1	25.1	20.1	20.1	15.1	15.1	15.1	10.0	10.0
80°	291.3	115.5	20.1	20.1	15.1	15.1	15.1	10.0	10.0	10.0	10.0
82.5°	110.5	35.2	15.1	15.1	10.0	10.0	10.0	10.0	10.0	5.0	5.0
85°	40.2	15.1	10.0	10.0	10.0	5.0	5.0	5.0	5.0	5.0	5.0
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	0.0	0.0	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)