

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: P1211656

Luminaire Tested: **ARCH4-70-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211656
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: ARCH4-70-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9366 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 73.8
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



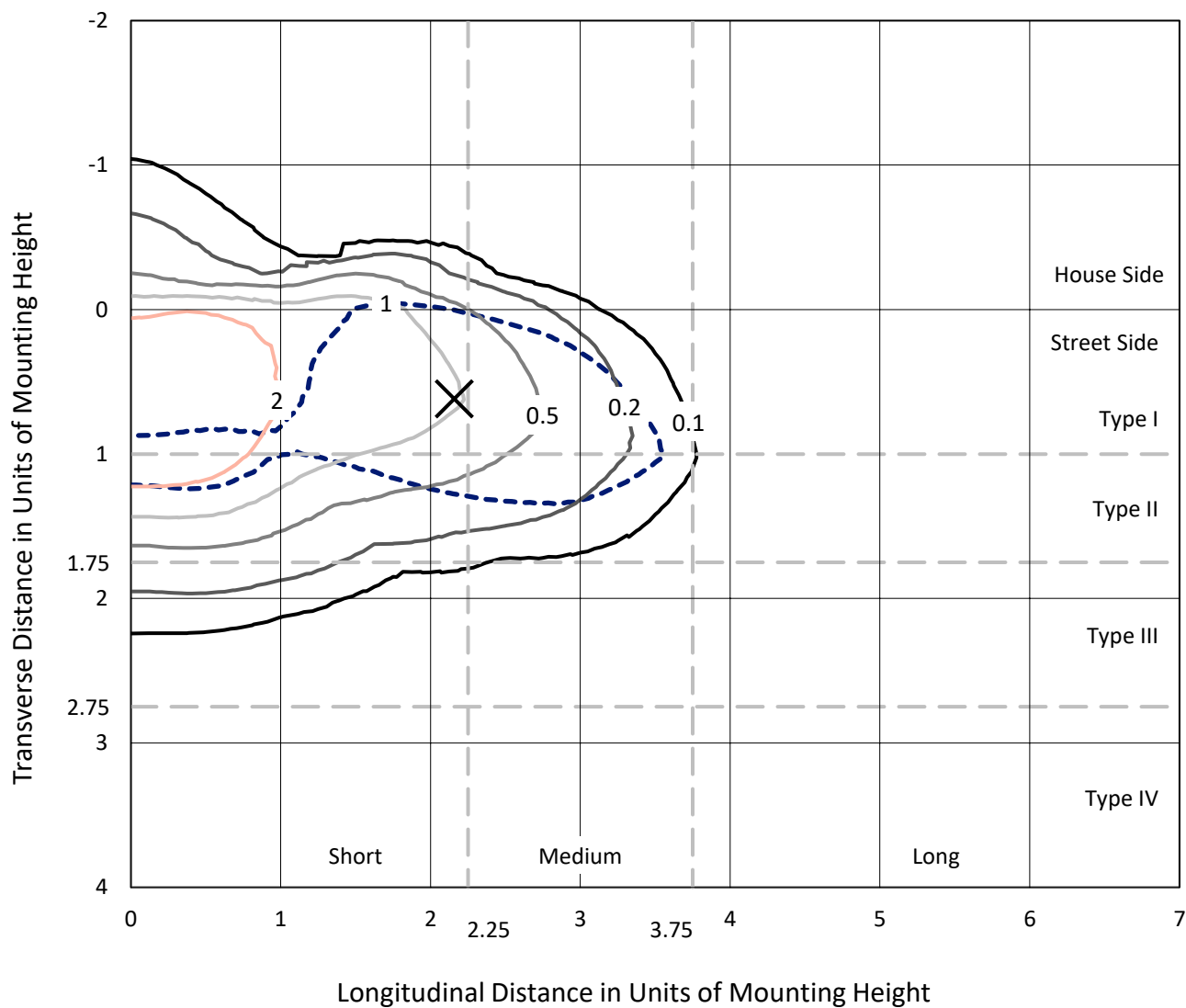
REPORT NUMBER: P1211656

CATALOG NUMBER: ARCH4-70-750-U-T2RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

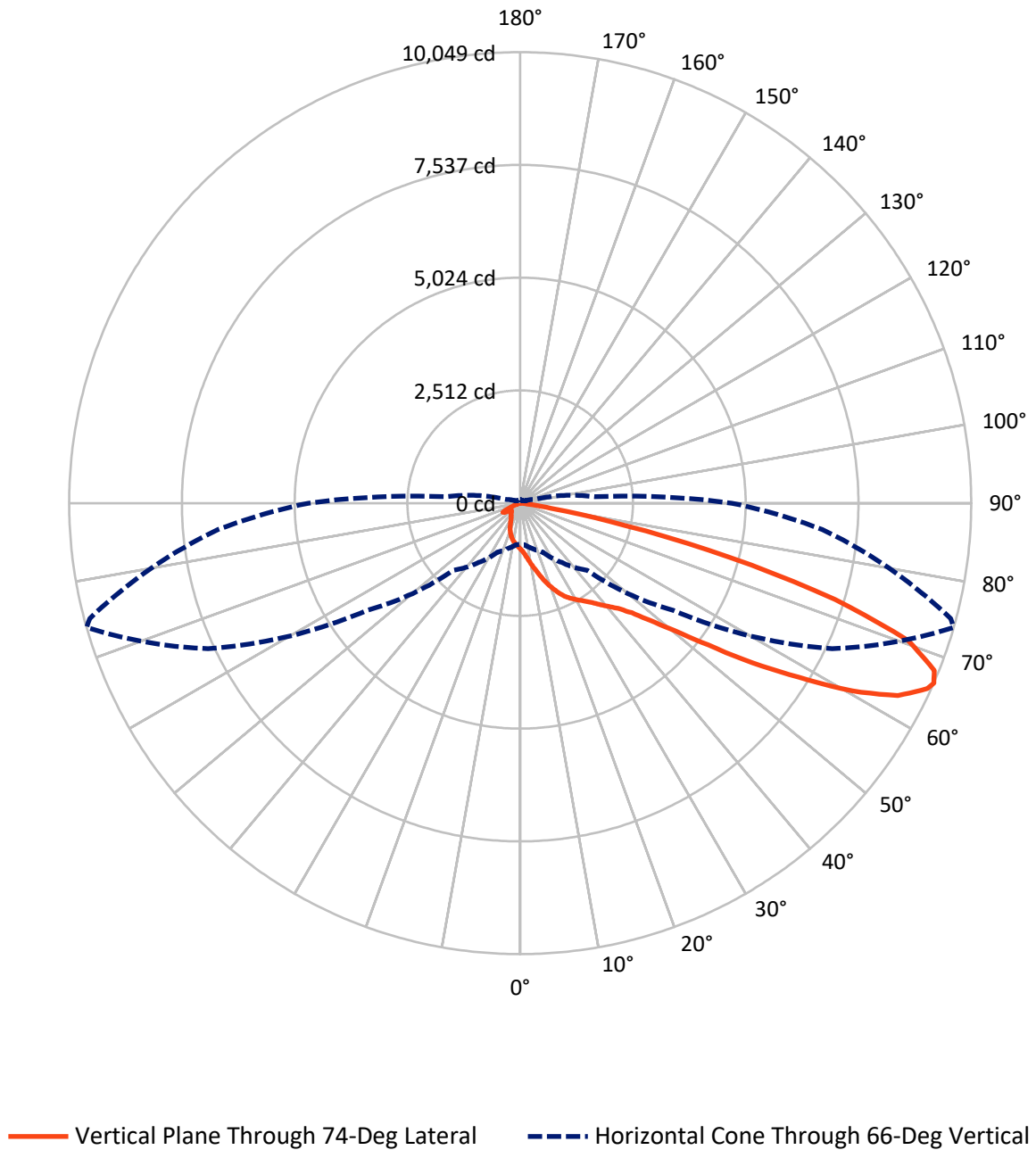
--- 1/2 Max cd



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

REPORT NUMBER: P1211656
CATALOG NUMBER: ARCH4-70-750-U-T2RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1211656

CATALOG NUMBER: ARCH4-70-750-U-T2RE-HSS

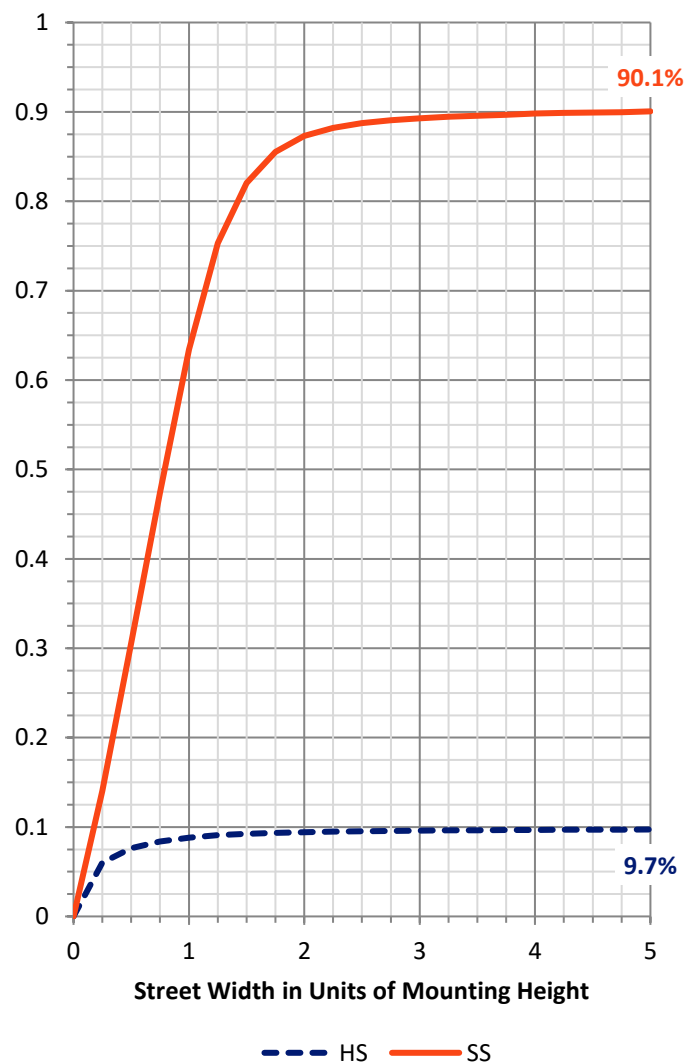
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	918.2	0.0	918.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	8447.8	0.0	8447.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	9366.0	0.0	9366.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.8	1.1
10°-20°	319.9	3.4
20°-30°	610.5	6.5
30°-40°	1070.1	11.4
40°-50°	1835.0	19.6
50°-60°	2386.5	25.5
60°-70°	2160.4	23.1
70°-80°	833.6	8.9
80°-90°	50.2	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°	9366.0	100.0
0°-180°	9366.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211656

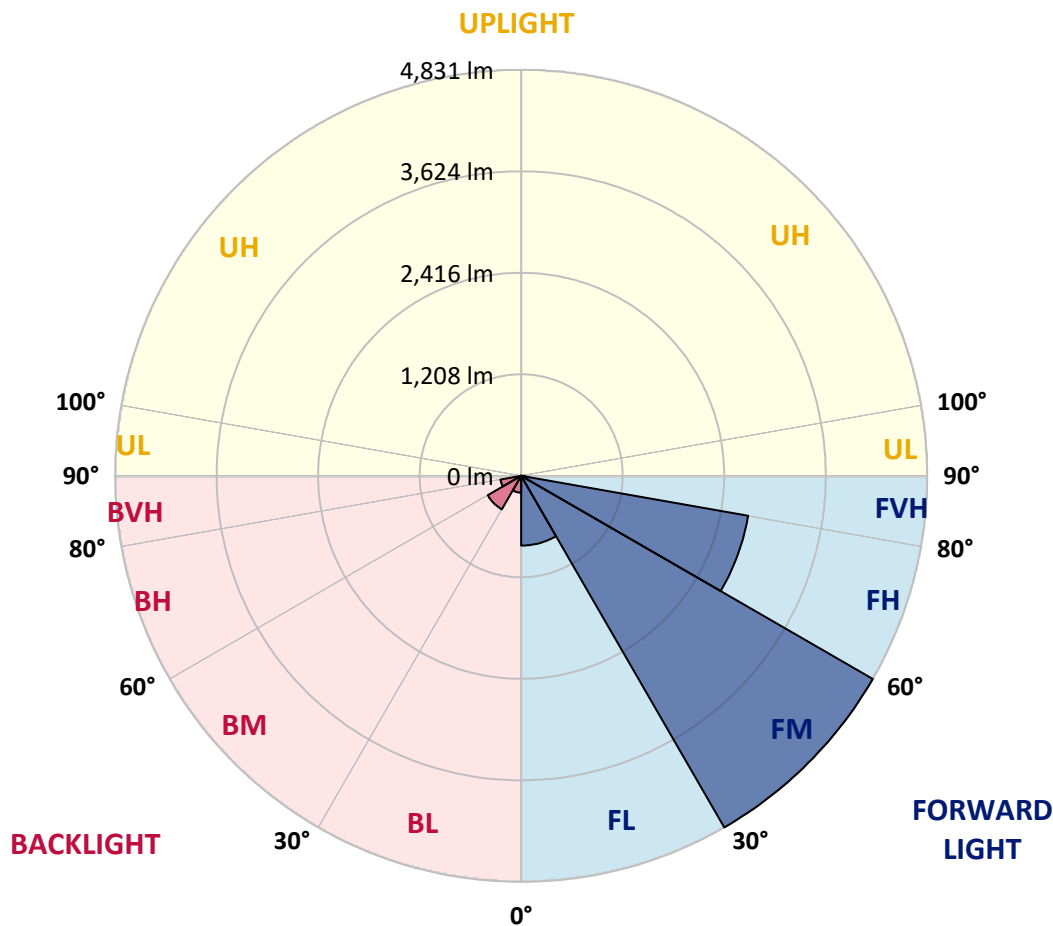
CATALOG NUMBER: ARCH4-70-750-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	830.0	8.9			
FM	(30°-60°)	4831.5	51.6			
FH	(60°-80°)	2743.0	29.3			G2/5000
FVH	(80°-90°)	43.4	0.5			G1/100
BL	(0°-30°)	200.3	2.1	B1/500		
BM	(30°-60°)	460.2	4.9	B1/1000		
BH	(60°-80°)	251.0	2.7	B1/500		G1/500
BVH	(80°-90°)	6.7	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: P1211656

CATALOG NUMBER: ARCH4-70-750-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4
2.5°	1227.5	1217.4	1198.9	1197.3	1182.1	1163.6	1131.7	1098.0	1074.5	1071.1	1042.6
5°	1469.7	1464.6	1446.1	1434.4	1405.8	1362.1	1288.1	1214.1	1151.9	1145.1	1081.2
7.5°	1533.6	1536.9	1540.3	1552.1	1542.0	1521.8	1466.3	1362.1	1264.5	1249.4	1138.4
10°	1543.7	1540.3	1540.3	1555.4	1584.0	1612.6	1605.9	1516.8	1390.6	1372.1	1217.4
12.5°	1653.0	1658.0	1646.2	1639.5	1634.5	1649.6	1700.0	1661.4	1523.5	1508.3	1313.3
15°	1794.2	1792.5	1775.7	1775.7	1760.6	1735.4	1767.3	1795.9	1683.2	1664.7	1422.6
17.5°	1896.8	1903.5	1901.8	1911.9	1906.9	1873.2	1856.4	1915.3	1848.0	1824.5	1547.0
20°	1979.2	1997.7	2004.4	2036.4	2051.5	2027.9	1984.2	2021.2	2006.1	1984.2	1673.1
22.5°	2066.6	2081.8	2093.5	2149.0	2191.1	2186.0	2130.5	2122.1	2159.1	2138.9	1797.6
25°	2154.1	2160.8	2196.1	2263.4	2330.6	2347.4	2290.3	2224.7	2297.0	2278.5	1908.6
27.5°	2249.9	2253.3	2295.3	2377.7	2471.9	2507.2	2461.8	2340.7	2402.9	2402.9	2009.4
30°	2424.8	2458.4	2475.2	2549.2	2631.6	2680.4	2626.6	2463.5	2497.1	2512.2	2115.4
32.5°	2801.5	2806.5	2801.5	2833.4	2850.2	2878.8	2816.6	2601.4	2592.9	2609.8	2219.6
35°	3376.5	3356.4	3302.6	3255.5	3157.9	3104.1	3023.4	2777.9	2710.7	2734.2	2322.2
37.5°	4074.4	4045.8	3923.0	3778.4	3569.9	3354.7	3253.8	2993.2	2860.3	2890.6	2433.2
40°	4740.3	4721.8	4575.5	4397.2	4040.8	3672.5	3458.9	3174.8	3026.8	3038.6	2545.9
42.5°	5288.5	5285.1	5162.3	4975.7	4518.3	4015.5	3701.1	3353.0	3201.7	3220.2	2663.6
45°	5703.8	5671.9	5581.1	5446.5	4980.7	4372.0	3993.7	3623.7	3482.5	3504.3	2840.1
47.5°	5703.8	5708.8	5767.7	5754.2	5303.6	4706.6	4313.2	3965.1	3897.8	3918.0	3131.0
50°	5239.7	5286.8	5549.1	5769.4	5471.8	4967.3	4657.9	4392.2	4461.1	4491.4	3638.9
52.5°	4321.6	4400.6	4856.3	5359.1	5347.3	5098.4	5014.4	4935.3	5244.7	5298.6	4388.8
55°	3284.1	3336.2	3929.8	4590.6	4805.9	4990.8	5325.5	5624.8	6282.3	6270.5	5150.6
57.5°	2453.4	2502.1	3013.3	3746.5	4030.7	4525.0	5485.2	6413.4	7311.4	7356.8	5865.2
60°	1804.3	1841.3	2276.8	2878.8	3289.1	3812.1	5421.3	7190.3	8496.9	8444.7	6495.8
62.5°	1335.1	1355.3	1669.8	2061.6	2606.4	3105.8	5019.4	7721.7	9443.6	9337.6	6847.3
65°	1032.5	1039.2	1202.3	1410.8	1895.1	2414.7	4420.8	7802.4	9966.5	9853.9	6840.5
66°	919.8	924.9	1044.2	1205.7	1612.6	2113.7	4158.5	7672.9	10048.9	9929.5	6756.5
67.5°	771.8	768.5	839.1	945.0	1210.7	1631.1	3692.7	7294.5	9951.4	9890.9	6487.4
70°	571.7	573.4	608.7	633.9	707.9	903.0	2666.9	6327.7	9171.2	9167.8	5749.2
72.5°	423.7	428.8	455.7	460.7	442.2	489.3	1536.9	5032.9	7336.6	7338.3	4298.0
75°	317.8	326.2	334.6	338.0	321.2	309.4	694.5	3386.6	4826.0	4790.7	2433.2
77.5°	242.1	245.5	252.2	247.2	243.8	213.6	289.2	1651.3	2382.8	2170.9	788.6
80°	176.6	176.6	183.3	176.6	174.9	153.0	158.1	529.7	699.5	581.8	169.8
82.5°	111.0	109.3	114.3	112.7	109.3	97.5	92.5	148.0	161.4	144.6	82.4
85°	62.2	60.5	58.9	57.2	52.1	43.7	50.4	55.5	74.0	75.7	58.9
87.5°	21.9	21.9	20.2	18.5	15.1	15.1	18.5	18.5	26.9	26.9	30.3
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: P1211656

CATALOG NUMBER: ARCH4-70-750-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4
2.5°	1029.1	1010.6	983.7	948.4	923.2	897.9	871.0	855.9	834.0	829.0	835.7
5°	1047.6	1014.0	946.7	872.7	808.8	751.7	697.8	665.9	633.9	622.2	627.2
7.5°	1086.3	1029.1	914.8	795.4	689.4	603.7	539.8	502.8	474.2	462.4	465.8
10°	1143.5	1056.0	884.5	707.9	571.7	480.9	427.1	403.6	386.8	380.0	381.7
12.5°	1212.4	1094.7	845.8	620.5	470.8	391.8	366.6	361.5	358.2	354.8	356.5
15°	1289.7	1128.3	800.4	534.7	391.8	348.1	339.7	338.0	336.3	336.3	336.3
17.5°	1370.5	1158.6	750.0	454.0	341.4	321.2	316.1	316.1	316.1	317.8	317.8
20°	1446.1	1182.1	691.1	381.7	312.8	296.0	292.6	292.6	294.3	296.0	296.0
22.5°	1520.1	1192.2	622.2	331.3	289.2	274.1	269.0	269.0	269.0	270.7	270.7
25°	1584.0	1192.2	553.2	299.3	269.0	253.9	247.2	245.5	247.2	247.2	247.2
27.5°	1637.8	1187.2	486.0	277.5	248.9	233.7	227.0	225.3	228.7	230.4	230.4
30°	1695.0	1180.4	432.2	257.3	232.1	216.9	210.2	210.2	215.2	222.0	222.0
32.5°	1750.5	1185.5	390.1	240.5	215.2	203.5	196.7	198.4	208.5	218.6	218.6
35°	1809.3	1195.6	364.9	228.7	203.5	191.7	186.7	191.7	201.8	211.9	211.9
37.5°	1868.2	1207.3	349.8	218.6	193.4	181.6	178.2	185.0	196.7	206.8	208.5
40°	1930.4	1217.4	332.9	208.5	186.7	173.2	171.5	178.2	193.4	203.5	205.1
42.5°	2007.8	1237.6	312.8	200.1	179.9	163.1	164.8	169.8	185.0	200.1	201.8
45°	2159.1	1301.5	292.6	191.7	171.5	158.1	154.7	158.1	174.9	191.7	195.1
47.5°	2443.3	1446.1	270.7	183.3	163.1	154.7	141.2	144.6	159.7	178.2	179.9
50°	2988.1	1753.9	259.0	174.9	156.4	142.9	127.8	127.8	139.6	156.4	156.4
52.5°	3837.3	2305.4	265.7	168.2	148.0	131.2	116.0	114.3	121.1	132.8	132.8
55°	4753.7	2910.8	290.9	161.4	137.9	124.4	107.6	99.2	104.3	111.0	111.0
57.5°	5480.2	3215.1	359.9	158.1	126.1	119.4	97.5	85.8	90.8	97.5	97.5
60°	5799.7	3036.9	437.2	161.4	117.7	111.0	87.4	75.7	84.1	90.8	92.5
62.5°	5540.7	2500.5	469.2	153.0	105.9	99.2	85.8	70.6	80.7	85.8	87.4
65°	4980.7	1900.1	366.6	132.8	97.5	85.8	77.4	67.3	75.7	80.7	80.7
66°	4715.1	1656.3	312.8	122.8	94.2	80.7	74.0	67.3	74.0	77.4	79.0
67.5°	4303.1	1306.6	232.1	107.6	87.4	74.0	68.9	63.9	70.6	74.0	74.0
70°	3364.8	778.6	139.6	84.1	75.7	65.6	62.2	58.9	63.9	65.6	65.6
72.5°	2107.0	369.9	89.1	62.2	63.9	62.2	52.1	55.5	57.2	58.9	58.9
75°	1020.7	146.3	60.5	45.4	52.1	58.9	42.0	48.8	50.4	53.8	52.1
77.5°	284.2	70.6	38.7	33.6	45.4	45.4	31.9	38.7	45.4	57.2	52.1
80°	82.4	45.4	25.2	25.2	31.9	31.9	21.9	26.9	30.3	33.6	35.3
82.5°	57.2	30.3	16.8	18.5	18.5	20.2	13.5	13.5	16.8	16.8	18.5
85°	45.4	13.5	10.1	11.8	8.4	10.1	6.7	6.7	8.4	6.7	6.7
87.5°	18.5	6.7	6.7	6.7	5.0	5.0	3.4	1.7	1.7	1.7	1.7
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)