

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: P1211675

Luminaire Tested: **ARCH4-80-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-80-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13473 lumens
Efficiency: N/A
Efficacy: 161.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 83.4
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

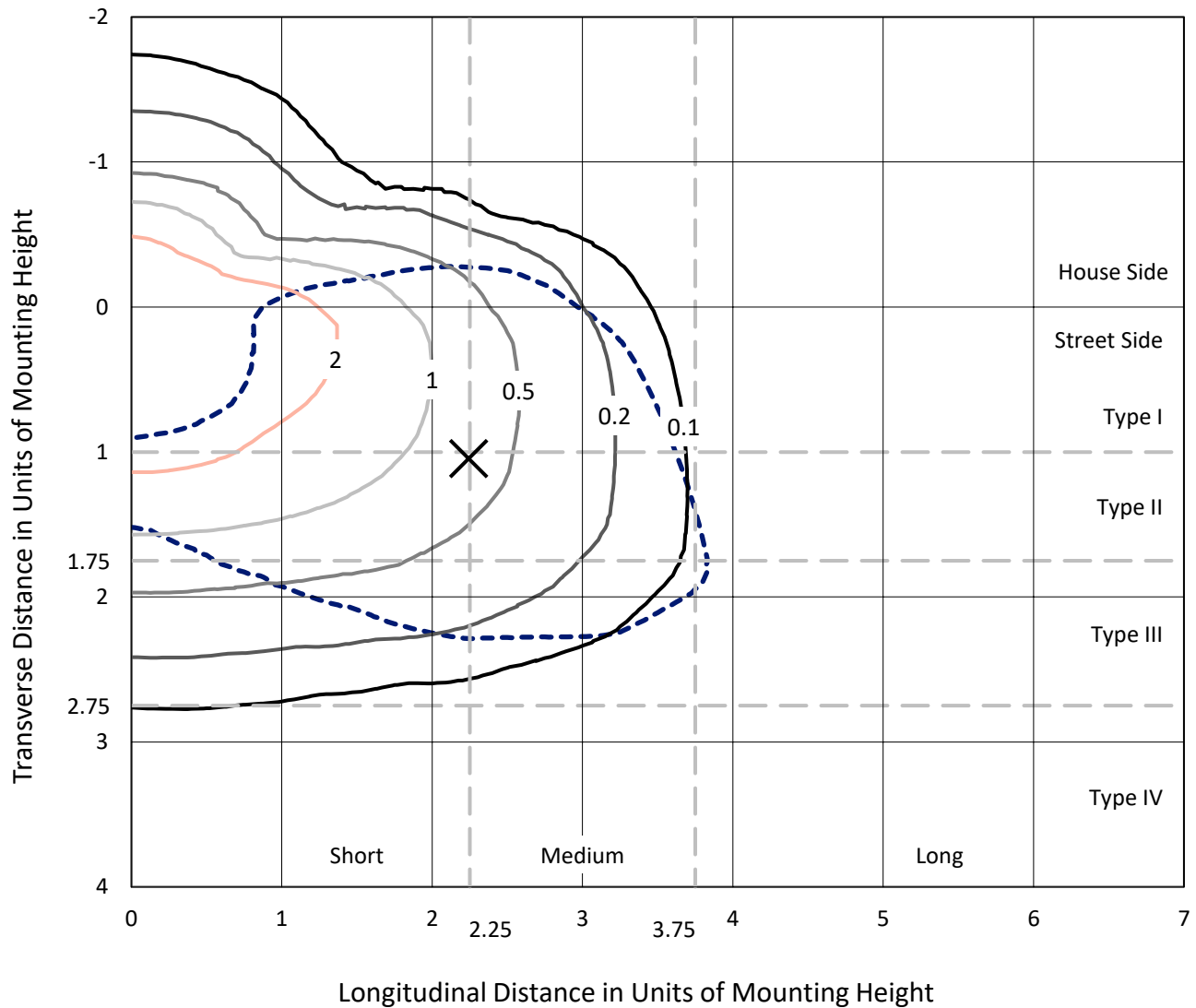


REPORT NUMBER: P1211675

CATALOG NUMBER: ARCH4-80-727-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

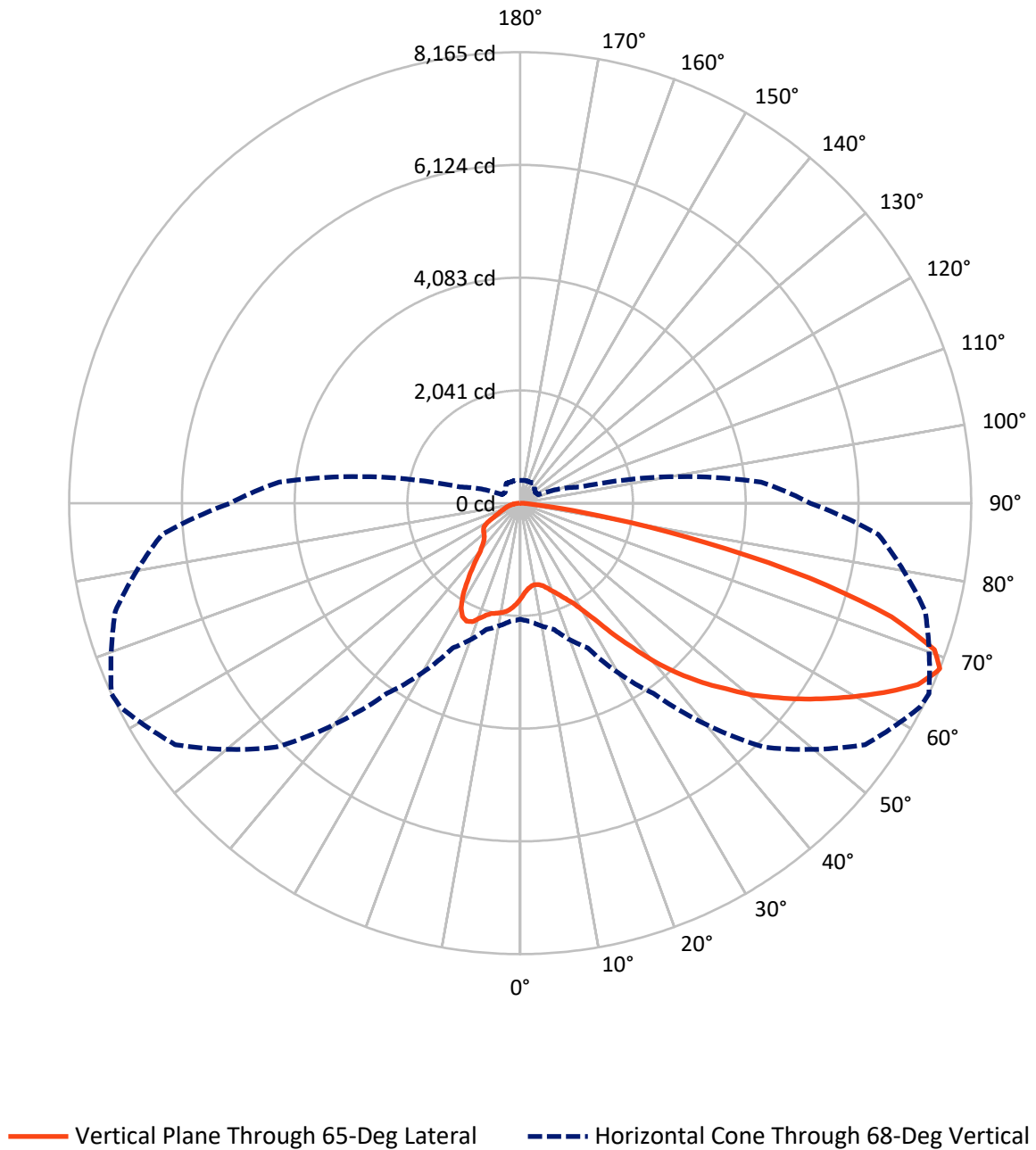
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - N/A

REPORT NUMBER: P1211675
CATALOG NUMBER: ARCH4-80-727-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1211675

CATALOG NUMBER: ARCH4-80-727-U-T3RE

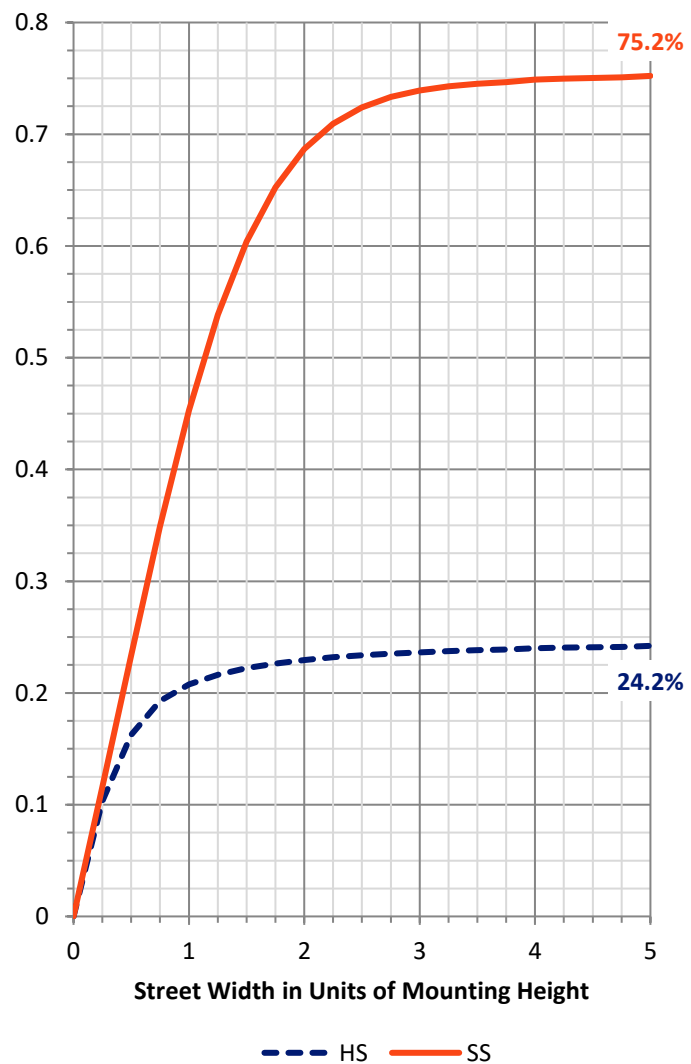
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3303.2	0.0	3303.2
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	10169.8	0.0	10169.8
	% Fixture	75.5	0.0	75.5
Total	Lumens	13473.0	0.0	13473.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.5	1.2
10°-20°	535.7	4.0
20°-30°	969.7	7.2
30°-40°	1525.4	11.3
40°-50°	2271.9	16.9
50°-60°	2980.2	22.1
60°-70°	3259.1	24.2
70°-80°	1612.7	12.0
80°-90°	153.8	1.1
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°	13473.0	100.0
0°-180°	13473.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211675

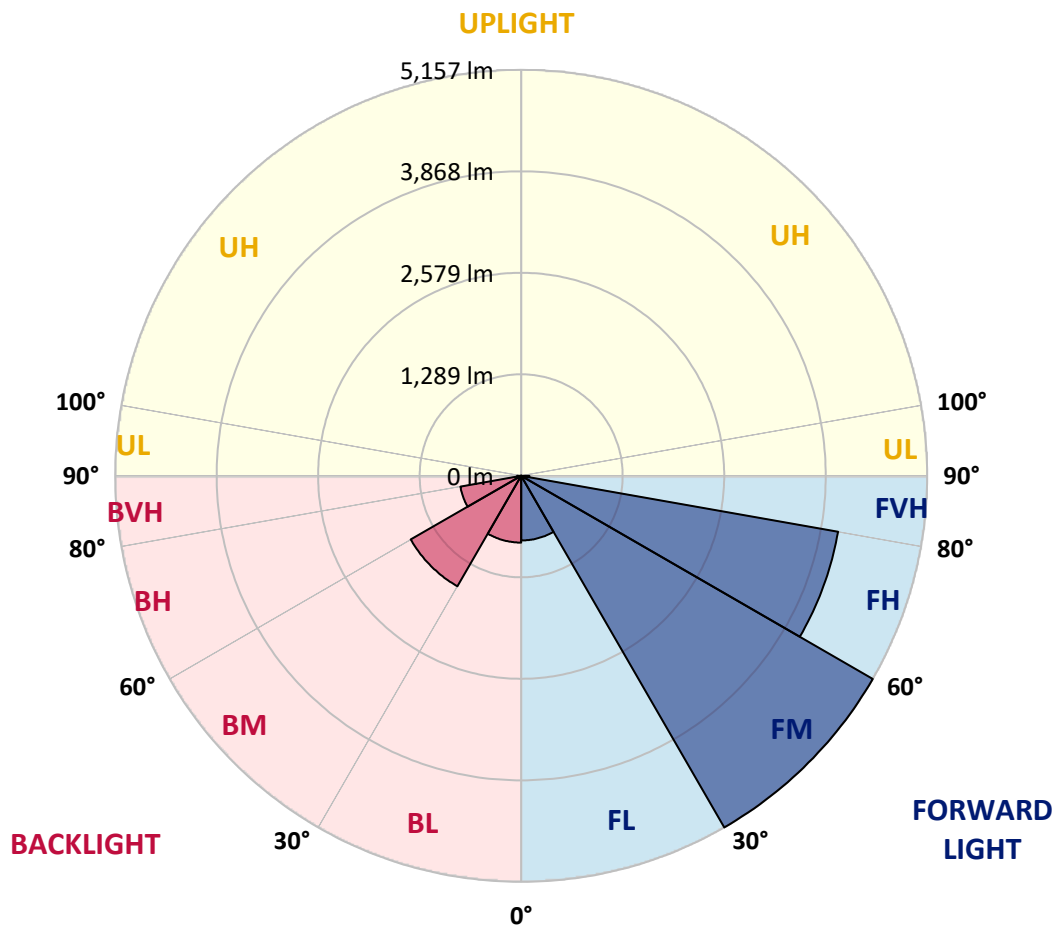
CATALOG NUMBER: ARCH4-80-727-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	821.3	6.1			
FM	(30°-60°)	5157.3	38.3			
FH	(60°-80°)	4087.7	30.3			G2/5000
FVH	(80°-90°)	103.5	0.8			G2/225
BL	(0°-30°)	848.6	6.3	B2/1000		
BM	(30°-60°)	1620.2	12.0	B2/2500		
BH	(60°-80°)	784.0	5.8	B2/1000		G2/1000
BVH	(80°-90°)	50.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



REPORT NUMBER: P1211675

CATALOG NUMBER: ARCH4-80-727-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1721.7	1721.7	1721.7	1721.7	1721.7	1721.7	1721.7	1721.7	1721.7	1721.7	1721.7
2.5°	1502.8	1499.3	1508.0	1516.7	1535.8	1558.4	1589.6	1615.7	1619.2	1667.8	1706.0
5°	1414.2	1409.0	1417.7	1428.1	1436.8	1464.6	1497.6	1535.8	1551.4	1622.7	1704.3
7.5°	1422.9	1421.1	1424.6	1421.1	1421.1	1433.3	1455.9	1494.1	1511.5	1596.6	1713.0
10°	1473.2	1476.7	1478.5	1468.0	1457.6	1452.4	1459.4	1485.4	1497.6	1598.3	1751.2
12.5°	1556.6	1561.9	1563.6	1544.5	1530.6	1508.0	1495.8	1506.3	1514.9	1615.7	1805.1
15°	1669.6	1673.0	1660.9	1648.7	1614.0	1586.2	1556.6	1548.0	1551.4	1652.2	1865.9
17.5°	1801.6	1796.4	1796.4	1766.9	1721.7	1678.3	1629.6	1622.7	1622.7	1711.3	1952.7
20°	1945.8	1951.0	1935.4	1895.4	1850.2	1782.5	1733.8	1702.6	1706.0	1779.0	2058.7
22.5°	2154.3	2163.0	2121.3	2063.9	1994.4	1916.3	1846.8	1796.4	1798.1	1867.6	2168.2
25°	2378.4	2381.9	2355.8	2279.4	2185.6	2074.4	1982.3	1918.0	1916.3	1966.6	2308.9
27.5°	2607.7	2623.4	2571.2	2498.3	2411.4	2272.4	2150.8	2063.9	2050.0	2117.8	2484.4
30°	2844.0	2863.1	2812.7	2741.5	2633.8	2515.6	2371.4	2270.7	2262.0	2352.3	2718.9
32.5°	3082.0	3087.2	3047.3	2988.2	2890.9	2779.7	2663.3	2552.1	2543.4	2691.1	3022.9
35°	3276.6	3292.2	3264.4	3250.5	3179.3	3076.8	2963.9	2899.6	2922.2	3111.5	3417.3
37.5°	3511.1	3526.8	3495.5	3492.0	3469.4	3380.8	3302.6	3307.9	3330.4	3587.6	3832.5
40°	3849.9	3867.3	3787.4	3752.6	3752.6	3665.7	3639.7	3763.0	3792.6	4056.6	4265.1
42.5°	4136.6	4164.4	4117.5	4094.9	4027.1	3966.3	3997.6	4171.3	4221.7	4504.9	4642.1
45°	4275.5	4296.4	4352.0	4418.0	4352.0	4246.0	4364.2	4560.5	4631.7	4918.4	5019.1
47.5°	4350.3	4369.4	4433.6	4610.9	4656.0	4567.4	4734.2	4979.2	5027.8	5328.4	5378.7
50°	4360.7	4421.5	4504.9	4682.1	4888.8	4901.0	5106.0	5404.8	5462.1	5731.4	5694.9
52.5°	4275.5	4299.9	4471.9	4770.7	5000.0	5208.5	5510.8	5813.1	5854.8	6110.2	5974.6
55°	4136.6	4171.3	4343.3	4749.8	5107.7	5500.4	5922.5	6214.4	6261.3	6478.5	6233.5
57.5°	4011.5	4028.8	4213.0	4689.0	5215.4	5792.2	6289.1	6633.1	6664.4	6801.6	6424.6
60°	3872.5	3891.6	4075.8	4558.7	5295.4	6012.9	6671.3	7055.3	7083.1	7142.1	6647.0
62.5°	3512.9	3563.2	3794.3	4343.3	5274.5	6264.8	7079.6	7472.2	7507.0	7442.7	6822.5
65°	2852.7	2923.9	3207.1	3855.1	5079.9	6428.1	7413.2	7856.2	7915.2	7668.5	6869.4
67.5°	2215.1	2265.5	2493.1	3059.4	4397.2	6346.4	7628.6	8120.2	8137.6	7632.1	6608.8
68°	2100.4	2150.8	2368.0	2892.6	4207.8	6249.1	7623.4	8127.2	8165.4	7592.1	6508.0
70°	1607.0	1664.4	1871.1	2291.5	3391.3	5630.7	7305.4	7960.4	7955.2	7109.1	5882.6
72.5°	1004.2	1037.2	1179.6	1445.5	2242.9	4284.2	6200.5	7020.5	7034.4	5795.7	4511.8
75°	637.6	637.6	630.6	700.1	1150.1	2440.9	4609.1	5404.8	5415.2	4058.4	2844.0
77.5°	554.2	538.6	463.9	392.6	458.7	948.6	2727.6	3490.3	3432.9	2185.6	1349.9
80°	467.3	441.3	380.5	316.2	295.3	297.1	1047.6	1772.1	1695.6	787.0	448.2
82.5°	337.0	314.5	286.7	248.4	227.6	177.2	218.9	512.5	500.3	227.6	145.9
85°	182.4	165.0	161.6	163.3	137.2	109.5	92.1	112.9	112.9	99.0	83.4
87.5°	64.3	46.9	55.6	62.5	53.9	45.2	36.5	43.4	45.2	43.4	40.0
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: P1211675

CATALOG NUMBER: ARCH4-80-727-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1721.7	1721.7	1721.7	1721.7	1721.7	1721.7	1721.7	1721.7	1721.7	1721.7	1721.7
2.5°	1728.6	1746.0	1787.7	1824.2	1850.2	1872.8	1885.0	1890.2	1902.4	1904.1	1900.6
5°	1742.5	1787.7	1850.2	1904.1	1933.6	1945.8	1949.3	1951.0	1945.8	1949.3	1945.8
7.5°	1779.0	1836.3	1925.0	1971.9	1977.1	1958.0	1959.7	1952.7	1959.7	1966.6	1966.6
10°	1834.6	1907.6	1991.0	2008.3	1985.8	1975.3	1996.2	2037.9	2051.8	2070.9	2070.9
12.5°	1907.6	1994.4	2053.5	2037.9	2017.0	2051.8	2112.6	2154.3	2168.2	2175.1	2169.9
15°	1991.0	2084.8	2114.3	2062.2	2100.4	2175.1	2196.0	2171.7	2136.9	2121.3	2130.0
17.5°	2096.9	2175.1	2157.8	2123.0	2209.9	2220.3	2152.5	2074.4	2018.8	1997.9	2011.8
20°	2208.1	2275.9	2196.0	2211.6	2265.5	2154.3	2025.7	1925.0	1876.3	1867.6	1881.5
22.5°	2326.3	2369.7	2234.2	2314.1	2234.2	2008.3	1853.7	1801.6	1789.4	1803.3	1815.5
25°	2460.0	2454.8	2300.2	2345.4	2117.8	1829.4	1737.3	1733.8	1733.8	1742.5	1759.9
27.5°	2611.2	2529.5	2366.2	2303.7	1916.3	1681.7	1664.4	1666.1	1660.9	1662.6	1671.3
30°	2786.7	2630.3	2439.2	2166.4	1690.4	1570.5	1563.6	1558.4	1546.2	1542.7	1546.2
32.5°	3007.3	2736.3	2513.9	1940.6	1492.4	1455.9	1452.4	1424.6	1395.1	1391.6	1403.8
35°	3287.0	2929.1	2552.1	1657.4	1329.1	1327.3	1315.2	1271.7	1233.5	1233.5	1224.8
37.5°	3606.7	3177.6	2567.8	1381.2	1193.5	1202.2	1167.5	1111.9	1082.4	1065.0	1070.2
40°	3933.3	3460.7	2566.0	1139.7	1075.4	1077.1	1051.1	983.3	910.4	866.9	877.3
42.5°	4247.8	3717.9	2520.9	1011.1	979.8	974.6	953.8	861.7	800.9	766.2	767.9
45°	4499.7	3983.7	2451.4	934.7	893.0	901.7	854.8	799.2	743.6	712.3	710.6
47.5°	4751.6	4185.2	2340.2	887.8	828.7	813.1	794.0	755.7	714.0	679.3	681.0
50°	4980.9	4357.2	2235.9	856.5	769.6	729.7	733.1	710.6	674.1	642.8	641.1
52.5°	5142.5	4470.1	2178.6	839.1	698.4	655.0	667.1	655.0	620.2	597.6	595.9
55°	5304.0	4557.0	2197.7	816.5	620.2	585.5	606.3	602.9	583.7	576.8	578.5
57.5°	5434.3	4623.0	2265.5	774.8	545.5	524.7	559.4	549.0	535.1	536.8	536.8
60°	5561.2	4708.1	2345.4	679.3	481.2	483.0	516.0	496.9	488.2	503.8	505.6
62.5°	5693.2	4800.2	2279.4	540.3	425.6	437.8	476.0	460.4	463.9	486.5	493.4
65°	5677.6	4791.5	1857.2	443.0	377.0	401.3	458.7	453.4	455.2	463.9	467.3
67.5°	5357.9	4485.8	1276.9	377.0	342.3	371.8	444.8	423.9	425.6	420.4	422.2
68°	5250.2	4378.1	1125.8	366.6	335.3	364.8	437.8	418.7	420.4	415.2	413.5
70°	4663.0	3749.1	712.3	323.1	311.0	345.7	403.1	396.1	394.4	390.9	390.9
72.5°	3554.6	2767.6	375.3	279.7	283.2	316.2	359.6	373.5	364.8	366.6	377.0
75°	2354.1	1664.4	260.6	239.8	248.4	271.0	319.7	347.5	338.8	344.0	338.8
77.5°	1245.7	896.5	208.5	203.3	203.3	218.9	264.1	307.5	307.5	304.0	298.8
80°	408.3	316.2	166.8	159.8	163.3	172.0	212.0	251.9	257.1	250.2	246.7
82.5°	137.2	145.9	125.1	116.4	119.9	126.8	159.8	192.8	194.6	180.7	177.2
85°	85.1	97.3	78.2	76.4	76.4	78.2	97.3	106.0	97.3	86.9	90.3
87.5°	40.0	48.6	36.5	31.3	26.1	22.6	17.4	6.9	6.9	3.5	3.5
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)