

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: P1211146

Luminaire Tested: **ARCH4-180-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211146
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: ARCH4-180-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1455mA 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: 20594 lumens
Efficiency: N/A
Efficacy: 114.4 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): 180
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



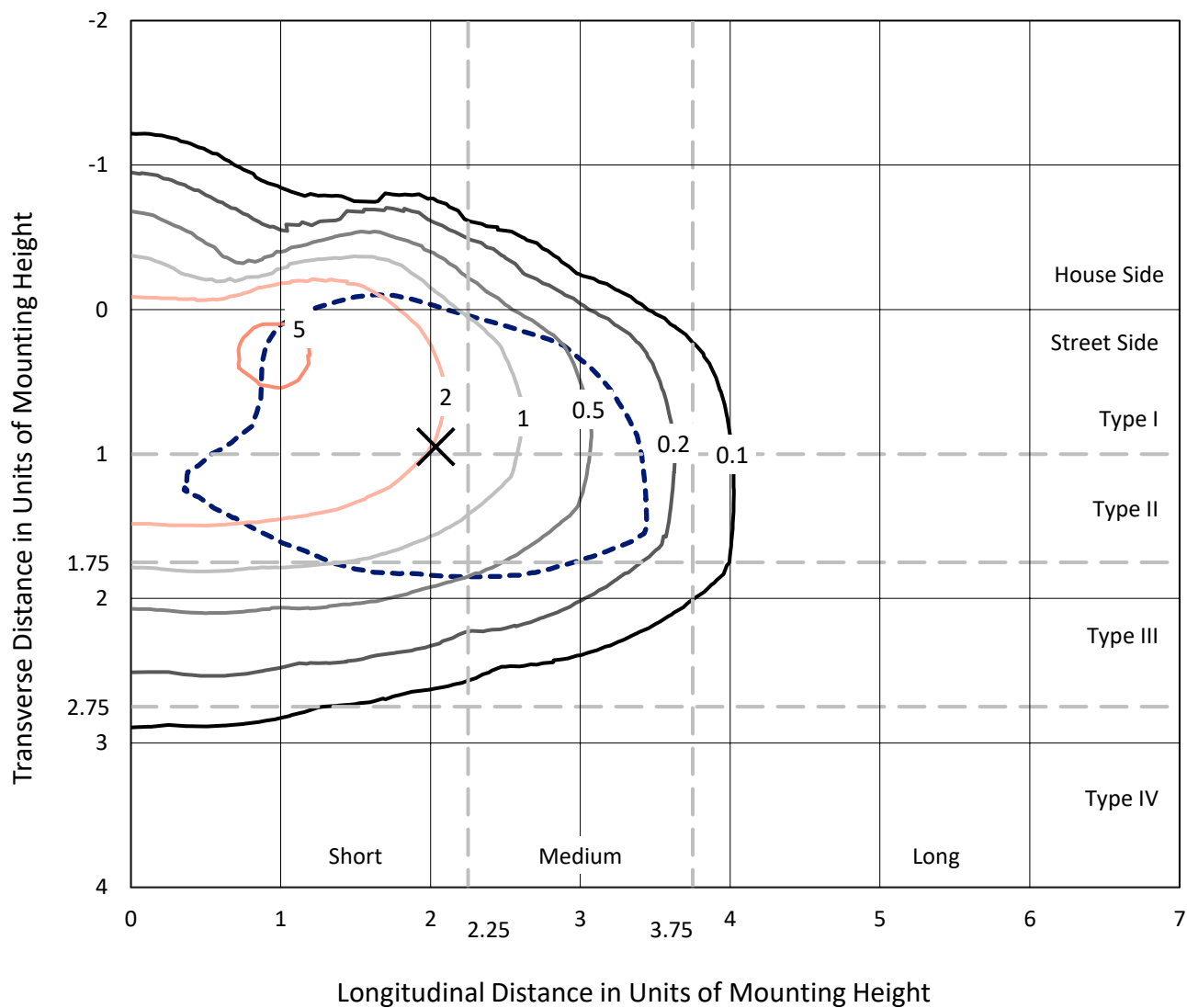
REPORT NUMBER: P1211146

CATALOG NUMBER: ARCH4-180-750-U-T3RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

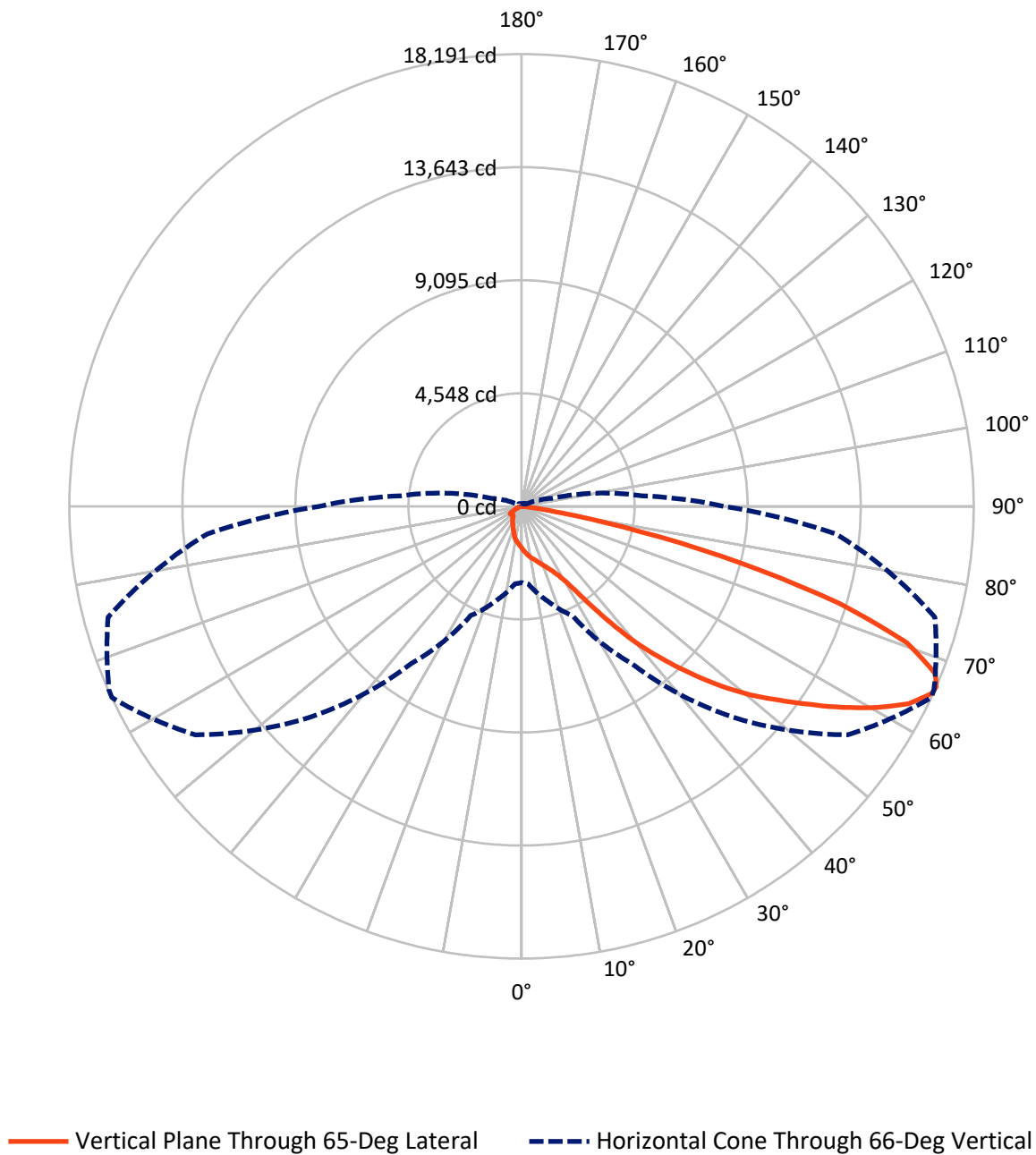


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type III - Short - N/A

REPORT NUMBER: P1211146

CATALOG NUMBER: ARCH4-180-750-U-T3RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1211146

CATALOG NUMBER: ARCH4-180-750-U-T3RE-HSS

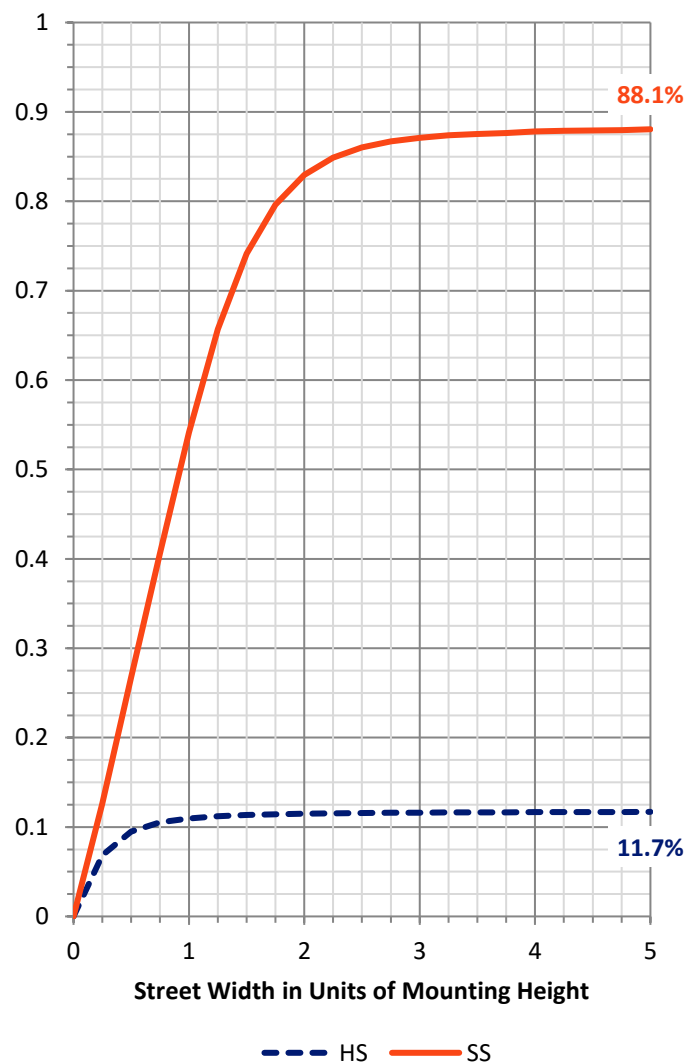
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2430.5	0.0	2430.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	18163.5	0.0	18163.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	20594.0	0.0	20594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.1	0.8
10°-20°	470.9	2.3
20°-30°	861.8	4.2
30°-40°	1751.2	8.5
40°-50°	3698.1	18.0
50°-60°	5685.2	27.6
60°-70°	5722.6	27.8
70°-80°	2138.3	10.4
80°-90°	106.8	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°	20594.0	100.0
0°-180°	20594.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211146

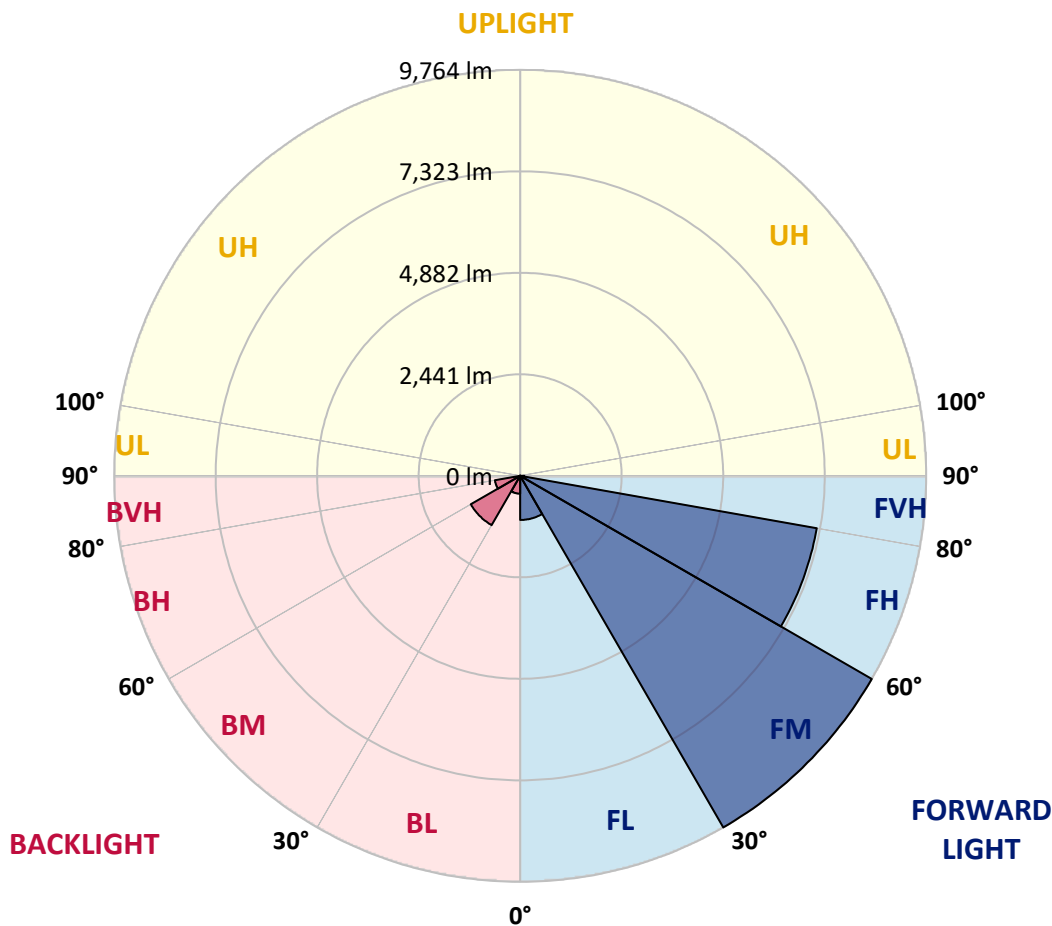
CATALOG NUMBER: ARCH4-180-750-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1061.6	5.2			
FM	(30°-60°)	9764.2	47.4			
FH	(60°-80°)	7243.4	35.2			G3/7500
FVH	(80°-90°)	94.3	0.5			G1/100
BL	(0°-30°)	430.2	2.1	B1/500		
BM	(30°-60°)	1370.3	6.7	B2/2500		
BH	(60°-80°)	617.4	3.0	B2/1000		G2/1000
BVH	(80°-90°)	12.6	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: P1211146

CATALOG NUMBER: ARCH4-180-750-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8
2.5°	1913.3	1917.0	1909.5	1894.6	1879.6	1860.9	1831.0	1782.5	1775.0	1741.4	1704.0
5°	2044.0	2051.5	2040.3	2036.6	2029.1	2002.9	1961.8	1890.8	1883.4	1816.1	1730.1
7.5°	2088.9	2100.1	2092.6	2092.6	2092.6	2081.4	2062.7	1999.2	1988.0	1902.0	1771.3
10°	2122.5	2130.0	2126.2	2141.2	2152.4	2144.9	2133.7	2096.4	2085.1	1999.2	1827.3
12.5°	2174.8	2178.6	2182.3	2189.8	2208.5	2215.9	2212.2	2178.6	2171.1	2111.3	1898.3
15°	2223.4	2223.4	2227.1	2260.8	2286.9	2301.9	2305.6	2279.5	2272.0	2223.4	1988.0
17.5°	2268.2	2272.0	2283.2	2320.6	2365.4	2395.3	2414.0	2402.8	2391.6	2354.2	2092.6
20°	2335.5	2343.0	2354.2	2406.5	2451.4	2499.9	2537.3	2533.6	2529.8	2503.7	2215.9
22.5°	2451.4	2458.8	2477.5	2526.1	2570.9	2630.7	2694.2	2690.5	2679.3	2660.6	2361.7
25°	2627.0	2627.0	2638.2	2679.3	2735.4	2806.4	2866.1	2877.4	2866.1	2854.9	2544.8
27.5°	2847.5	2851.2	2851.2	2896.0	2948.3	3038.0	3112.8	3124.0	3124.0	3112.8	2791.4
30°	3153.9	3142.7	3135.2	3172.6	3228.6	3359.4	3490.2	3512.6	3501.4	3520.1	3138.9
32.5°	3680.8	3662.1	3598.6	3606.0	3639.7	3819.0	4039.5	4118.0	4114.2	4147.9	3699.5
35°	4409.4	4372.1	4278.7	4200.2	4196.4	4390.8	4727.1	5022.3	5018.5	5134.4	4551.4
37.5°	5231.5	5280.1	5104.5	4970.0	4928.9	5082.1	5515.5	6154.5	6188.2	6390.0	5668.8
40°	6330.2	6360.1	6135.9	5945.3	5751.0	5807.0	6378.7	7372.7	7432.5	7656.7	6786.1
42.5°	7286.8	7316.7	7185.9	6954.2	6707.6	6603.0	7249.4	8478.8	8527.4	8837.6	7937.0
45°	7937.0	7959.4	8004.3	8026.7	7746.4	7529.7	8314.4	9614.8	9674.6	10033.4	9061.8
47.5°	8445.2	8463.9	8553.6	8777.8	8721.7	8549.8	9398.1	10795.7	10810.6	11210.5	10156.7
50°	8680.6	8725.5	8945.9	9289.7	9536.4	9584.9	10575.2	11913.0	11954.1	12335.2	11191.8
52.5°	8419.1	8434.0	8990.8	9637.3	10134.3	10627.5	11756.0	12948.1	13067.7	13351.7	12122.2
55°	7537.2	7645.5	8490.1	9626.0	10605.1	11617.8	13019.1	14065.4	14173.8	14353.1	12940.6
57.5°	6513.3	6632.9	7660.5	9144.0	10806.9	12533.3	14188.7	15253.7	15328.4	15377.0	13691.7
60°	5627.6	5739.8	6797.3	8221.0	10605.1	13179.8	15276.1	16434.5	16498.1	16367.3	14069.1
62.5°	4540.2	4652.3	5717.3	6999.1	9812.9	13310.5	16083.3	17484.6	17510.7	17155.7	13837.4
65°	3422.9	3497.7	4387.0	5485.6	8426.5	12615.5	16266.4	18138.5	18112.4	17383.7	13142.4
66°	3067.9	3131.5	3916.2	4850.4	7705.3	11980.2	16019.7	18190.8	18164.7	17215.5	12686.5
67.5°	2645.7	2664.4	3310.8	3968.5	6446.0	10631.2	15268.6	17951.7	17974.1	16752.2	11853.2
70°	2066.5	2062.7	2436.4	2761.5	4402.0	7563.3	12735.1	16445.7	16554.1	15003.3	10108.1
72.5°	1322.8	1278.0	1494.7	1689.0	2563.5	4390.8	9286.0	13404.0	13587.1	11785.9	7529.7
75°	788.5	743.6	795.9	844.5	1229.4	2111.3	5459.5	9121.6	9297.2	7555.8	4480.4
77.5°	590.4	571.7	575.5	534.4	545.6	792.2	2492.5	4820.5	4947.5	3094.1	1700.3
80°	452.2	403.6	377.4	396.1	358.7	313.9	926.7	1659.1	1737.6	732.4	355.0
82.5°	302.7	261.6	242.9	265.3	227.9	175.6	224.2	321.4	313.9	198.1	138.3
85°	156.9	134.5	134.5	134.5	115.8	85.9	97.2	130.8	130.8	104.6	82.2
87.5°	44.8	41.1	48.6	44.8	33.6	33.6	37.4	44.8	44.8	41.1	37.4
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: P1211146

CATALOG NUMBER: ARCH4-180-750-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8
2.5°	1674.1	1659.1	1618.0	1588.1	1558.3	1532.1	1502.2	1494.7	1479.8	1483.5	1476.0
5°	1685.3	1644.2	1573.2	1505.9	1453.6	1408.8	1352.7	1330.3	1300.4	1289.2	1281.7
7.5°	1700.3	1640.5	1535.8	1442.4	1352.7	1263.0	1173.4	1121.0	1087.4	1072.5	1061.3
10°	1733.9	1655.4	1517.1	1371.4	1218.2	1091.2	1001.5	964.1	941.7	937.9	934.2
12.5°	1778.7	1677.8	1498.5	1281.7	1079.9	960.4	904.3	893.1	889.4	889.4	885.6
15°	1846.0	1715.2	1468.6	1177.1	971.6	889.4	863.2	844.5	837.0	837.0	837.0
17.5°	1913.3	1760.0	1423.7	1068.7	896.8	844.5	818.4	807.2	799.7	803.4	799.7
20°	1999.2	1812.4	1363.9	975.3	848.3	807.2	781.0	769.8	766.0	766.0	766.0
22.5°	2096.4	1872.1	1289.2	904.3	807.2	769.8	743.6	732.4	724.9	728.7	728.7
25°	2227.1	1946.9	1210.7	833.3	766.0	732.4	702.5	687.6	687.6	691.3	695.0
27.5°	2395.3	2036.6	1132.3	788.5	728.7	695.0	661.4	646.5	650.2	657.7	657.7
30°	2641.9	2159.9	1053.8	739.9	687.6	650.2	620.3	605.4	612.8	627.8	627.8
32.5°	2993.2	2361.7	986.5	683.8	627.8	586.7	556.8	545.6	564.3	594.2	594.2
35°	3621.0	2731.6	945.4	627.8	564.3	515.7	478.3	467.1	493.3	530.6	530.6
37.5°	4461.8	3325.8	960.4	579.2	511.9	455.9	414.8	399.8	418.5	452.2	463.4
40°	5399.7	4043.2	1091.2	538.1	463.4	407.3	366.2	351.3	362.5	377.4	381.2
42.5°	6337.6	4805.5	1337.8	508.2	426.0	366.2	328.8	317.6	325.1	328.8	332.6
45°	7271.8	5560.4	1647.9	489.5	392.4	332.6	295.2	295.2	298.9	298.9	298.9
47.5°	8157.5	6296.5	1973.0	485.8	362.5	298.9	269.1	272.8	272.8	276.5	276.5
50°	8994.5	6954.2	2301.9	497.0	336.3	269.1	246.6	246.6	246.6	250.4	246.6
52.5°	9693.3	7529.7	2645.7	515.7	310.2	246.6	224.2	224.2	224.2	227.9	224.2
55°	10354.7	8052.8	2996.9	541.8	287.7	227.9	205.5	198.1	198.1	201.8	198.1
57.5°	10892.8	8400.4	3329.5	545.6	269.1	209.3	190.6	179.4	179.4	179.4	179.4
60°	10915.2	8198.6	3426.7	478.3	246.6	190.6	171.9	156.9	160.7	160.7	160.7
62.5°	10201.5	7137.3	2754.0	358.7	220.5	171.9	156.9	142.0	142.0	142.0	142.0
65°	8800.2	5552.9	1614.3	284.0	190.6	153.2	138.3	127.1	127.1	127.1	123.3
66°	8142.5	4869.1	1236.9	257.8	179.4	149.5	134.5	123.3	119.6	115.8	115.8
67.5°	7070.1	3848.9	773.5	227.9	164.4	138.3	123.3	112.1	108.4	104.6	104.6
70°	5325.0	2443.9	377.4	175.6	142.0	119.6	108.4	97.2	93.4	89.7	85.9
72.5°	3736.8	1431.2	198.1	134.5	115.8	104.6	93.4	82.2	78.5	74.7	74.7
75°	2111.3	691.3	130.8	97.2	93.4	85.9	78.5	67.3	63.5	63.5	63.5
77.5°	799.7	239.2	89.7	71.0	74.7	67.3	56.1	56.1	52.3	56.1	52.3
80°	209.3	104.6	56.1	52.3	56.1	48.6	41.1	44.8	44.8	44.8	44.8
82.5°	112.1	59.8	33.6	37.4	33.6	33.6	26.2	29.9	33.6	29.9	33.6
85°	78.5	29.9	18.7	18.7	14.9	14.9	11.2	14.9	18.7	14.9	14.9
87.5°	41.1	11.2	11.2	11.2	11.2	7.5	3.7	0.0	3.7	3.7	3.7
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)