

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: P1211178

Luminaire Tested: **ARCH4-190-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211178
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: ARCH4-190-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1530mA 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: 21503 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 190
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



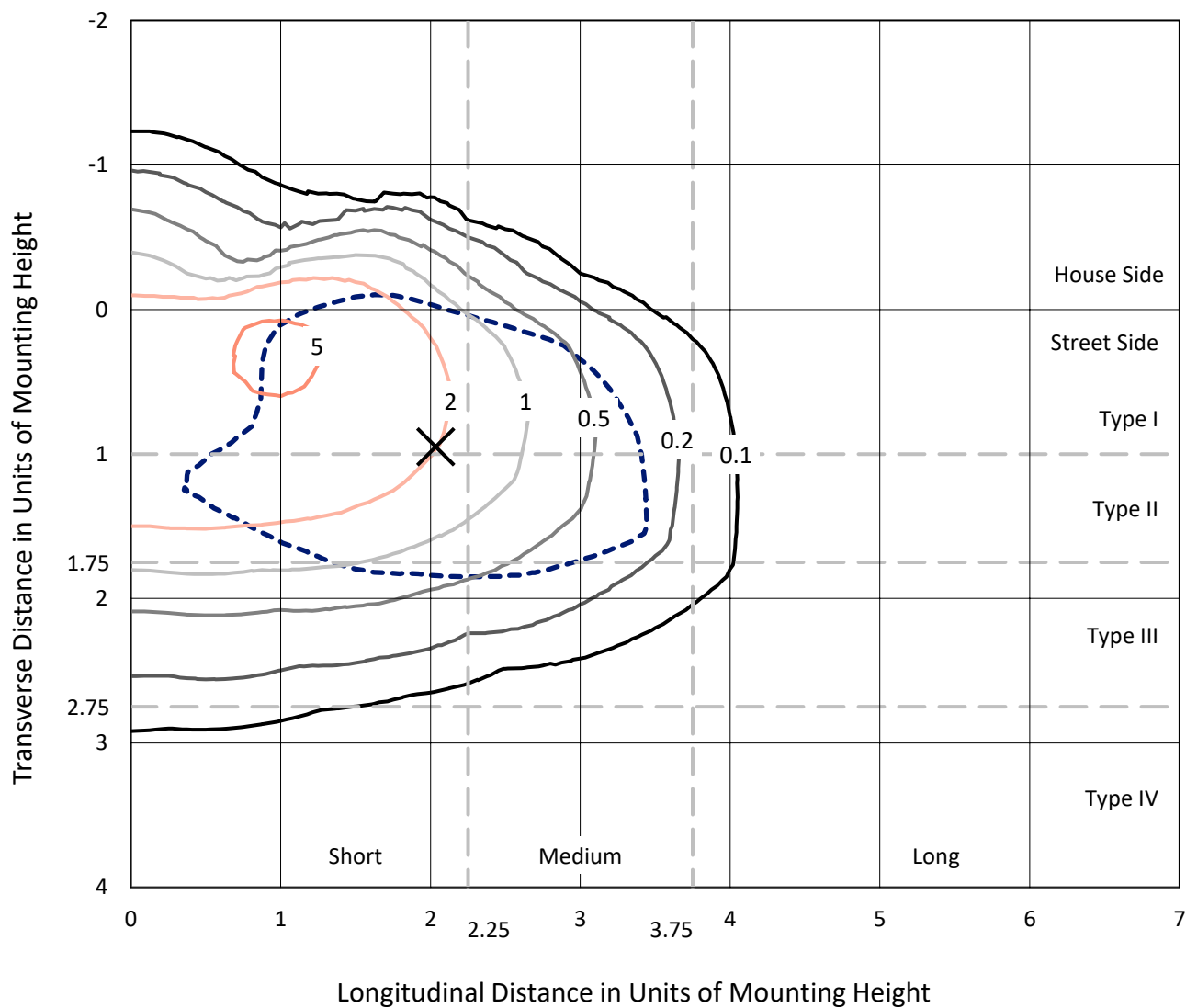
REPORT NUMBER: P1211178

CATALOG NUMBER: ARCH4-190-750-U-T3RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

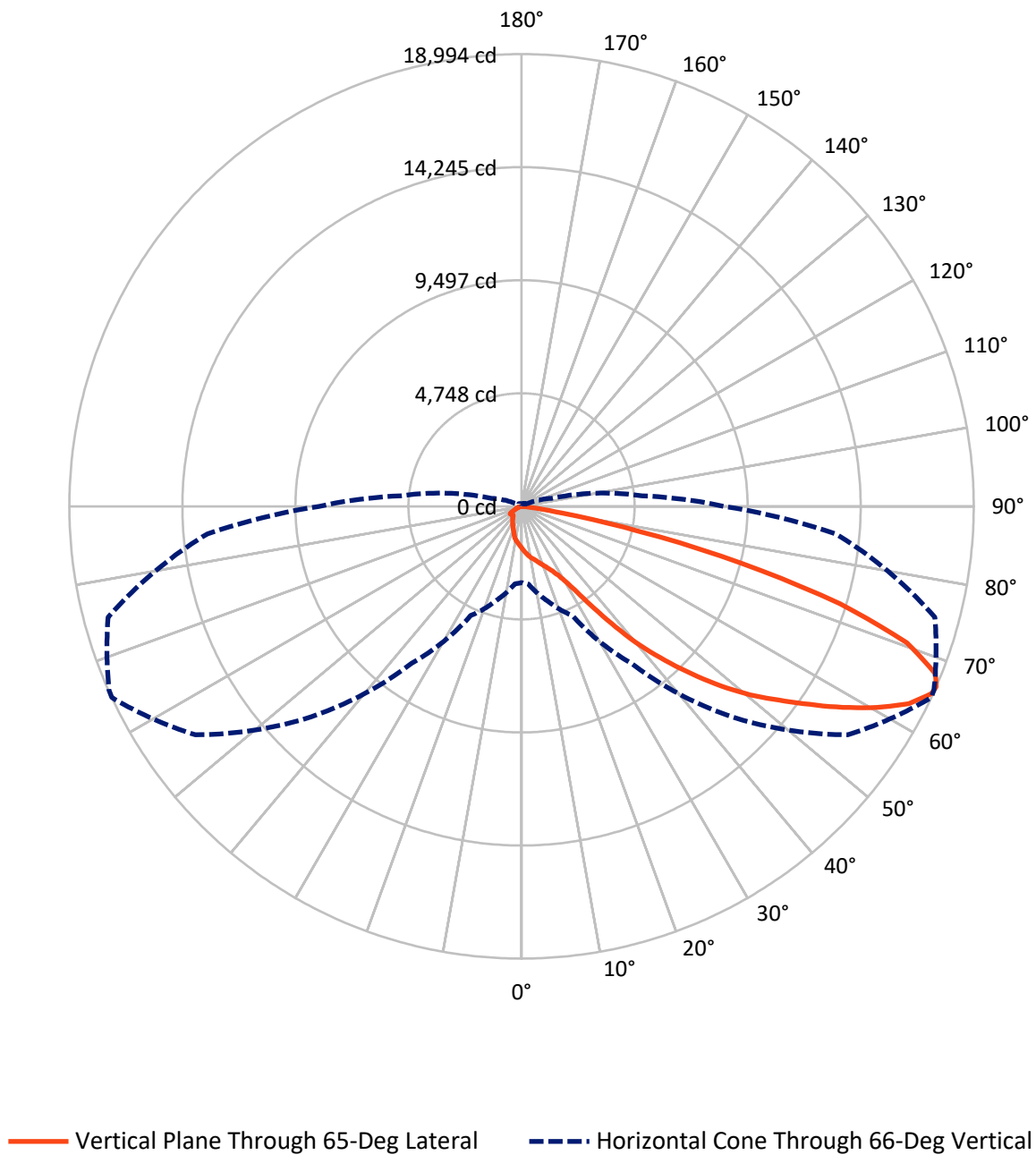


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

REPORT NUMBER: P1211178

CATALOG NUMBER: ARCH4-190-750-U-T3RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1211178

CATALOG NUMBER: ARCH4-190-750-U-T3RE-HSS

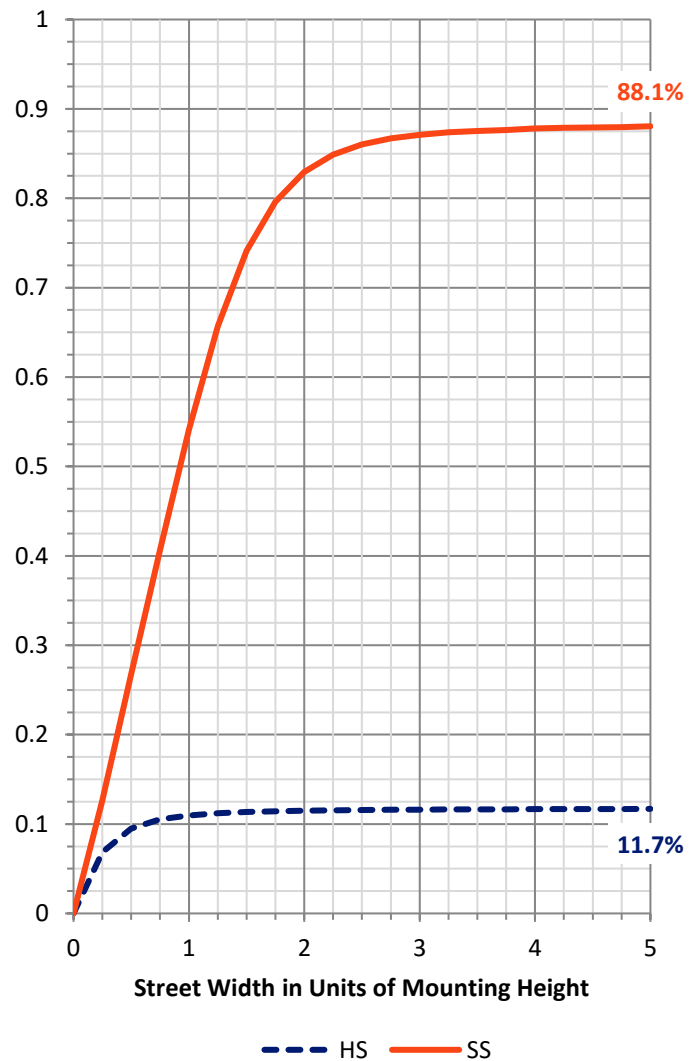
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2537.8	0.0	2537.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	18965.2	0.0	18965.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	21503.0	0.0	21503.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	0.8
10°-20°	491.7	2.3
20°-30°	899.9	4.2
30°-40°	1828.5	8.5
40°-50°	3861.4	18.0
50°-60°	5936.2	27.6
60°-70°	5975.2	27.8
70°-80°	2232.6	10.4
80°-90°	111.5	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°	21503.0	100.0
0°-180°	21503.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211178

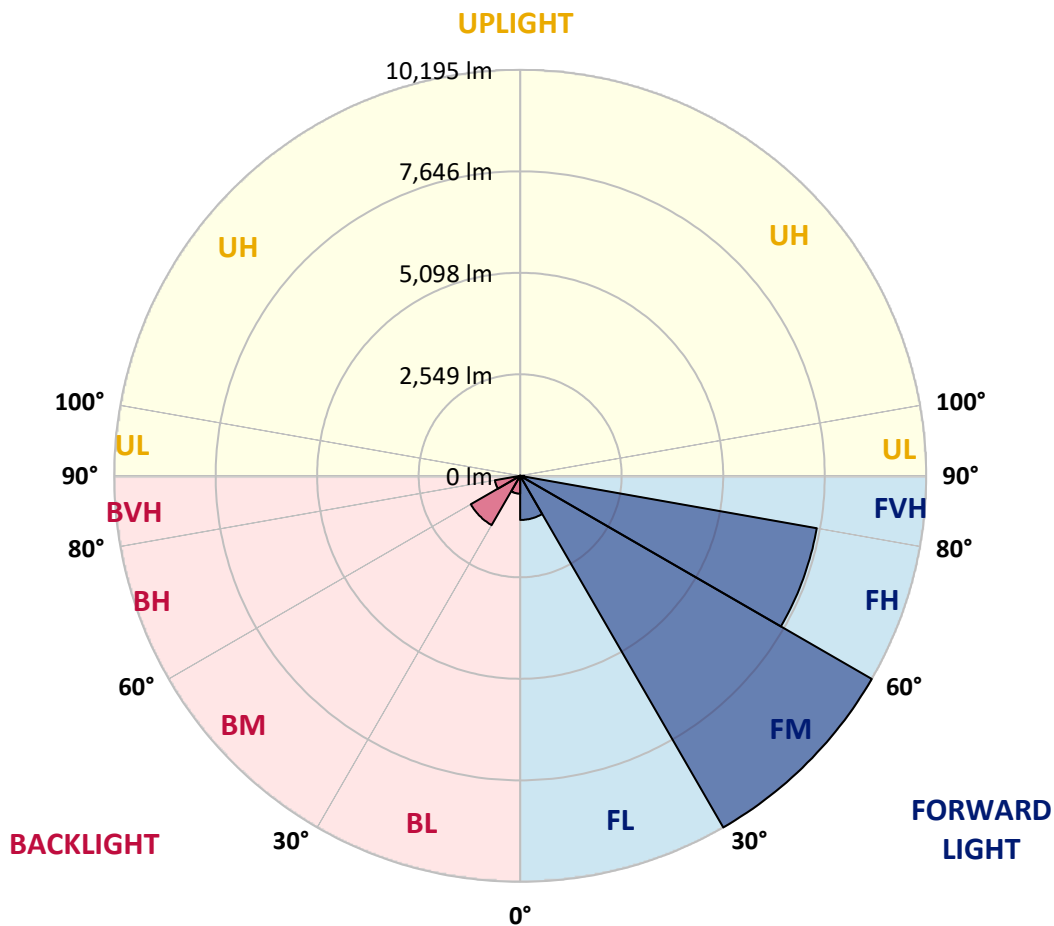
CATALOG NUMBER: ARCH4-190-750-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1108.4	5.2			
FM	(30°-60°)	10195.2	47.4			
FH	(60°-80°)	7563.1	35.2			G4/12000
FVH	(80°-90°)	98.4	0.5			G1/100
BL	(0°-30°)	449.2	2.1	B1/500		
BM	(30°-60°)	1430.8	6.7	B2/2500		
BH	(60°-80°)	644.7	3.0	B2/1000		G2/1000
BVH	(80°-90°)	13.1	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-G4

Type III Short



REPORT NUMBER: P1211178

CATALOG NUMBER: ARCH4-190-750-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1751.9	1751.9	1751.9	1751.9	1751.9	1751.9	1751.9	1751.9	1751.9	1751.9	1751.9
2.5°	1997.7	2001.6	1993.8	1978.2	1962.6	1943.1	1911.9	1861.1	1853.3	1818.2	1779.2
5°	2134.3	2142.1	2130.4	2126.5	2118.7	2091.3	2048.4	1974.3	1966.5	1896.3	1806.5
7.5°	2181.1	2192.8	2185.0	2185.0	2185.0	2173.3	2153.8	2087.4	2075.7	1986.0	1849.4
10°	2216.2	2224.0	2220.1	2235.7	2247.4	2239.6	2227.9	2188.9	2177.2	2087.4	1908.0
12.5°	2270.8	2274.7	2278.6	2286.4	2305.9	2313.7	2309.8	2274.7	2266.9	2204.5	1982.1
15°	2321.5	2321.5	2325.4	2360.6	2387.9	2403.5	2407.4	2380.1	2372.3	2321.5	2075.7
17.5°	2368.4	2372.3	2384.0	2423.0	2469.8	2501.0	2520.5	2508.8	2497.1	2458.1	2185.0
20°	2438.6	2446.4	2458.1	2512.7	2559.6	2610.3	2649.3	2645.4	2641.5	2614.2	2313.7
22.5°	2559.6	2567.4	2586.9	2637.6	2684.4	2746.8	2813.2	2809.3	2797.6	2778.1	2465.9
25°	2742.9	2742.9	2754.6	2797.6	2856.1	2930.2	2992.6	3004.4	2992.6	2980.9	2657.1
27.5°	2973.1	2977.0	2977.0	3023.9	3078.5	3172.1	3250.2	3261.9	3261.9	3250.2	2914.6
30°	3293.1	3281.4	3273.6	3312.6	3371.1	3507.7	3644.2	3667.7	3655.9	3675.5	3277.5
32.5°	3843.2	3823.7	3757.4	3765.2	3800.3	3987.6	4217.8	4299.7	4295.8	4331.0	3862.7
35°	4604.1	4565.1	4467.5	4385.6	4381.7	4584.6	4935.7	5244.0	5240.1	5361.0	4752.3
37.5°	5462.5	5513.2	5329.8	5189.3	5146.4	5306.4	5759.0	6426.2	6461.3	6672.0	5919.0
40°	6609.6	6640.8	6406.7	6207.7	6004.8	6063.3	6660.3	7698.2	7760.6	7994.7	7085.6
42.5°	7608.4	7639.6	7503.1	7261.2	7003.7	6894.4	7569.4	8853.1	8903.8	9227.7	8287.3
45°	8287.3	8310.7	8357.6	8381.0	8088.3	7862.0	8681.4	10039.2	10101.7	10476.2	9461.8
47.5°	8818.0	8837.5	8931.1	9165.2	9106.7	8927.2	9812.9	11272.2	11287.8	11705.3	10605.0
50°	9063.8	9110.6	9340.8	9699.8	9957.3	10008.0	11042.0	12438.8	12481.7	12879.7	11685.8
52.5°	8790.7	8806.3	9387.6	10062.6	10581.6	11096.6	12274.9	13519.6	13644.4	13941.0	12657.3
55°	7869.8	7983.0	8864.8	10050.9	11073.2	12130.6	13593.7	14686.2	14799.4	14986.7	13511.8
57.5°	6800.8	6925.6	7998.6	9547.6	11283.9	13086.5	14815.0	15927.0	16005.0	16055.7	14296.0
60°	5876.0	5993.1	7097.3	8583.9	11073.2	13761.5	15950.4	17159.9	17226.3	17089.7	14690.1
62.5°	4740.6	4857.7	5969.7	7308.0	10246.0	13898.1	16793.2	18256.3	18283.6	17913.0	14448.2
65°	3574.0	3652.0	4580.7	5727.8	8798.5	13172.3	16984.4	18939.1	18911.8	18151.0	13722.5
66°	3203.3	3269.7	4089.0	5064.5	8045.4	12509.0	16726.8	18993.8	18966.4	17975.4	13246.5
67.5°	2762.4	2782.0	3457.0	4143.7	6730.5	11100.5	15942.6	18744.0	18767.5	17491.6	12376.4
70°	2157.7	2153.8	2543.9	2883.4	4596.3	7897.2	13297.2	17171.6	17284.8	15665.6	10554.3
72.5°	1381.2	1334.4	1560.7	1763.6	2676.6	4584.6	9695.9	13995.6	14186.8	12306.1	7862.0
75°	823.3	776.4	831.1	881.8	1283.7	2204.5	5700.5	9524.2	9707.6	7889.4	4678.2
77.5°	616.5	597.0	600.9	558.0	569.7	827.2	2602.5	5033.3	5165.9	3230.7	1775.3
80°	472.1	421.4	394.1	413.6	374.6	327.7	967.6	1732.4	1814.3	764.7	370.7
82.5°	316.0	273.1	253.6	277.0	238.0	183.4	234.1	335.6	327.7	206.8	144.4
85°	163.9	140.5	140.5	140.5	121.0	89.7	101.4	136.6	136.6	109.2	85.8
87.5°	46.8	42.9	50.7	46.8	35.1	35.1	39.0	46.8	46.8	42.9	39.0
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: P1211178

CATALOG NUMBER: ARCH4-190-750-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1751.9	1751.9	1751.9	1751.9	1751.9	1751.9	1751.9	1751.9	1751.9	1751.9	1751.9
2.5°	1748.0	1732.4	1689.5	1658.2	1627.0	1599.7	1568.5	1560.7	1545.1	1549.0	1541.2
5°	1759.7	1716.8	1642.6	1572.4	1517.8	1471.0	1412.4	1389.0	1357.8	1346.1	1338.3
7.5°	1775.3	1712.9	1603.6	1506.1	1412.4	1318.8	1225.2	1170.5	1135.4	1119.8	1108.1
10°	1810.4	1728.5	1584.1	1431.9	1272.0	1139.3	1045.7	1006.7	983.2	979.3	975.4
12.5°	1857.2	1751.9	1564.6	1338.3	1127.6	1002.8	944.2	932.5	928.6	928.6	924.7
15°	1927.5	1790.9	1533.4	1229.1	1014.5	928.6	901.3	881.8	874.0	874.0	874.0
17.5°	1997.7	1837.7	1486.6	1115.9	936.4	881.8	854.5	842.8	835.0	838.9	835.0
20°	2087.4	1892.4	1424.1	1018.4	885.7	842.8	815.5	803.8	799.9	799.9	799.9
22.5°	2188.9	1954.8	1346.1	944.2	842.8	803.8	776.4	764.7	756.9	760.8	760.8
25°	2325.4	2032.8	1264.2	870.1	799.9	764.7	733.5	717.9	717.9	721.8	725.7
27.5°	2501.0	2126.5	1182.2	823.3	760.8	725.7	690.6	675.0	678.9	686.7	686.7
30°	2758.5	2255.2	1100.3	772.5	717.9	678.9	647.7	632.1	639.9	655.5	655.5
32.5°	3125.3	2465.9	1030.1	714.0	655.5	612.6	581.4	569.7	589.2	620.4	620.4
35°	3780.8	2852.2	987.1	655.5	589.2	538.4	499.4	487.7	515.0	554.0	554.0
37.5°	4658.7	3472.6	1002.8	604.8	534.5	476.0	433.1	417.5	437.0	472.1	483.8
40°	5638.0	4221.7	1139.3	561.9	483.8	425.3	382.4	366.8	378.5	394.1	398.0
42.5°	6617.4	5017.7	1396.8	530.6	444.8	382.4	343.4	331.6	339.5	343.4	347.3
45°	7592.8	5805.8	1720.7	511.1	409.7	347.3	308.2	308.2	312.1	312.1	312.1
47.5°	8517.5	6574.5	2060.1	507.2	378.5	312.1	280.9	284.8	284.8	288.7	288.7
50°	9391.5	7261.2	2403.5	518.9	351.2	280.9	257.5	257.5	257.5	261.4	257.5
52.5°	10121.2	7862.0	2762.4	538.4	323.8	257.5	234.1	234.1	234.1	238.0	234.1
55°	10811.8	8408.3	3129.2	565.8	300.4	238.0	214.6	206.8	206.8	210.7	206.8
57.5°	11373.6	8771.2	3476.5	569.7	280.9	218.5	199.0	187.3	187.3	187.3	187.3
60°	11397.0	8560.5	3577.9	499.4	257.5	199.0	179.5	163.9	167.8	167.8	167.8
62.5°	10651.8	7452.4	2875.6	374.6	230.2	179.5	163.9	148.3	148.3	148.3	148.3
65°	9188.6	5798.0	1685.6	296.5	199.0	160.0	144.4	132.7	132.7	132.7	128.8
66°	8501.9	5084.0	1291.5	269.2	187.3	156.1	140.5	128.8	124.9	121.0	121.0
67.5°	7382.1	4018.8	807.7	238.0	171.7	144.4	128.8	117.1	113.2	109.2	109.2
70°	5560.0	2551.7	394.1	183.4	148.3	124.9	113.2	101.4	97.5	93.6	89.7
72.5°	3901.8	1494.4	206.8	140.5	121.0	109.2	97.5	85.8	81.9	78.0	78.0
75°	2204.5	721.8	136.6	101.4	97.5	89.7	81.9	70.2	66.3	66.3	66.3
77.5°	835.0	249.7	93.6	74.1	78.0	70.2	58.5	58.5	54.6	58.5	54.6
80°	218.5	109.2	58.5	54.6	58.5	50.7	42.9	46.8	46.8	46.8	46.8
82.5°	117.1	62.4	35.1	39.0	35.1	35.1	27.3	31.2	35.1	31.2	35.1
85°	81.9	31.2	19.5	19.5	15.6	15.6	11.7	15.6	19.5	15.6	15.6
87.5°	42.9	11.7	11.7	11.7	11.7	7.8	3.9	0.0	3.9	3.9	3.9
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)