

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: P842526

Luminaire Tested: **ARCH4-60-727-U-T3-HSS**

Issue Date: 5/27/2024

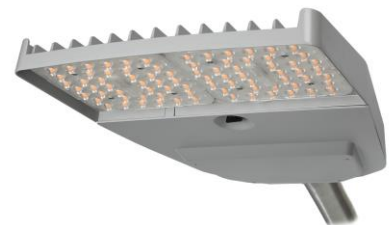
Test Information

Test Method: LM-79-08
Report Number: P842526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-60-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7245 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63
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



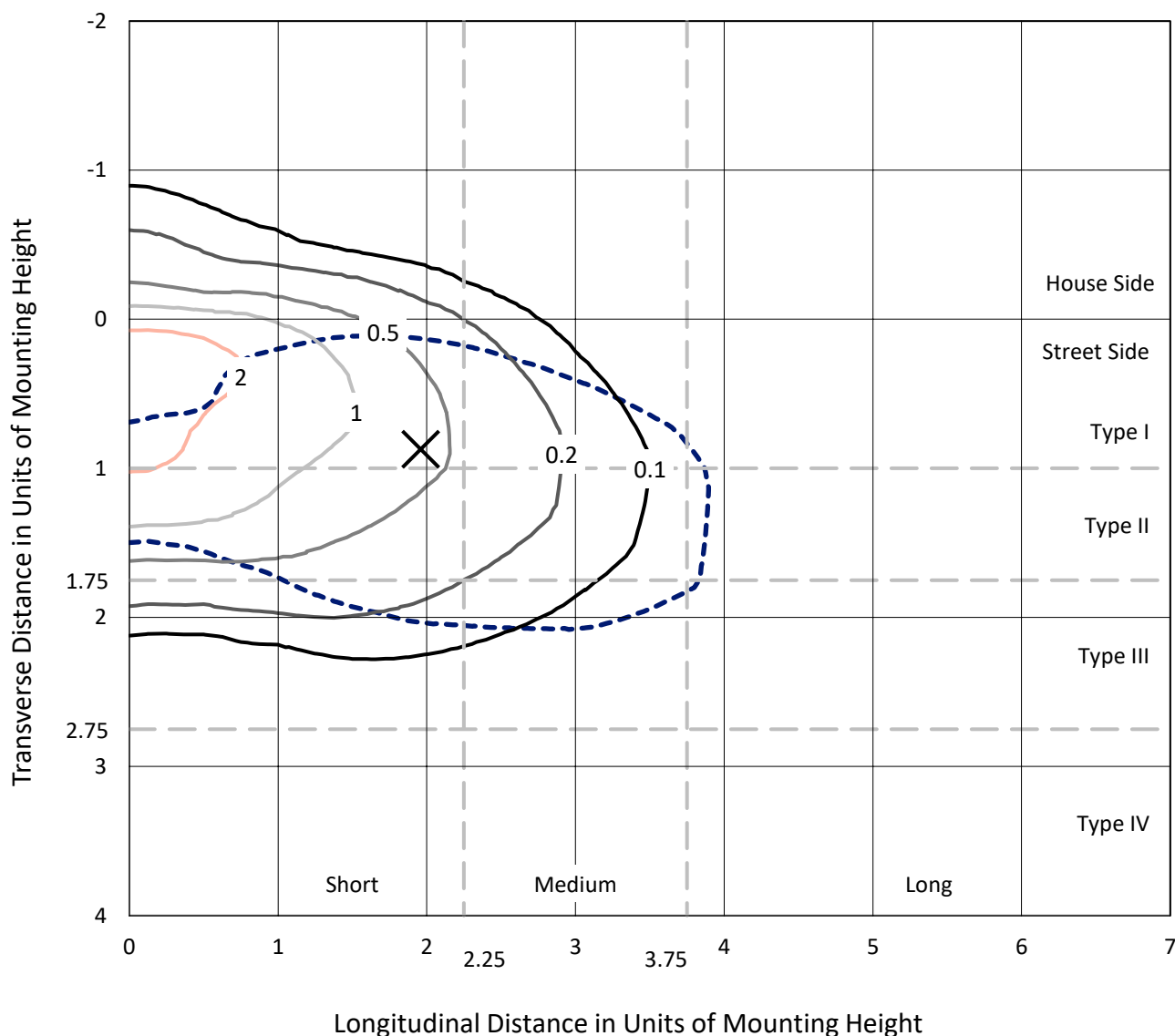
REPORT NUMBER: P842526

CATALOG NUMBER: ARCH4-60-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

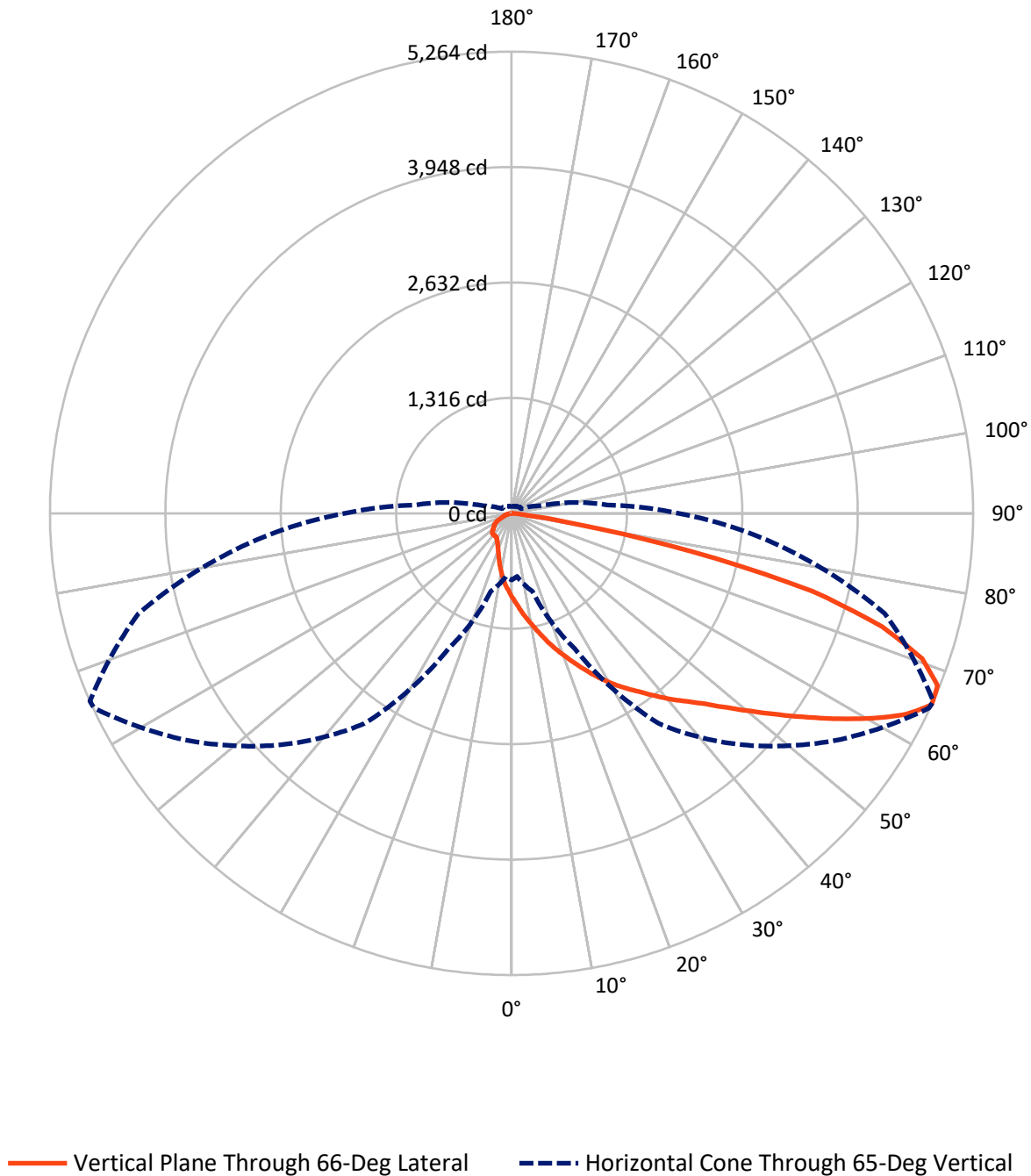


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc

Type III - Short - N/A

REPORT NUMBER: P842526
CATALOG NUMBER: ARCH4-60-727-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P842526

CATALOG NUMBER: ARCH4-60-727-U-T3-HSS

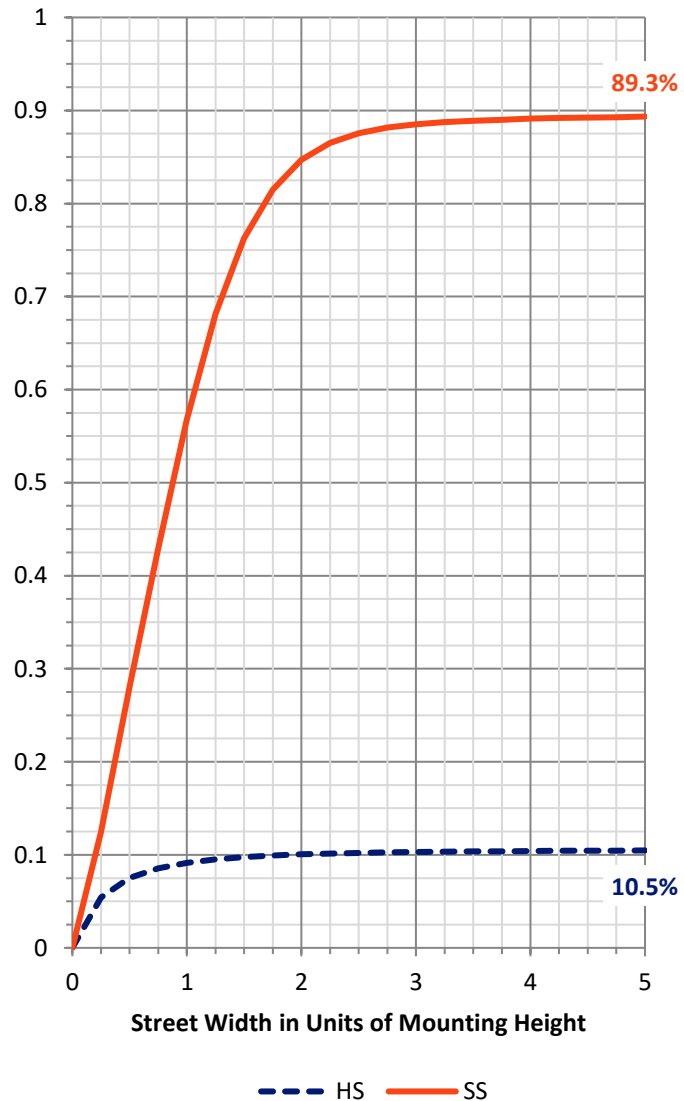
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	766.3	0.0	766.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	6478.7	0.0	6478.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	7245.0	0.0	7245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	1.3
10°-20°	308.4	4.3
20°-30°	558.1	7.7
30°-40°	872.7	12.0
40°-50°	1323.9	18.3
50°-60°	1682.0	23.2
60°-70°	1571.7	21.7
70°-80°	781.1	10.8
80°-90°	52.5	0.7
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°	7245.0	100.0
0°-180°	7245.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842526

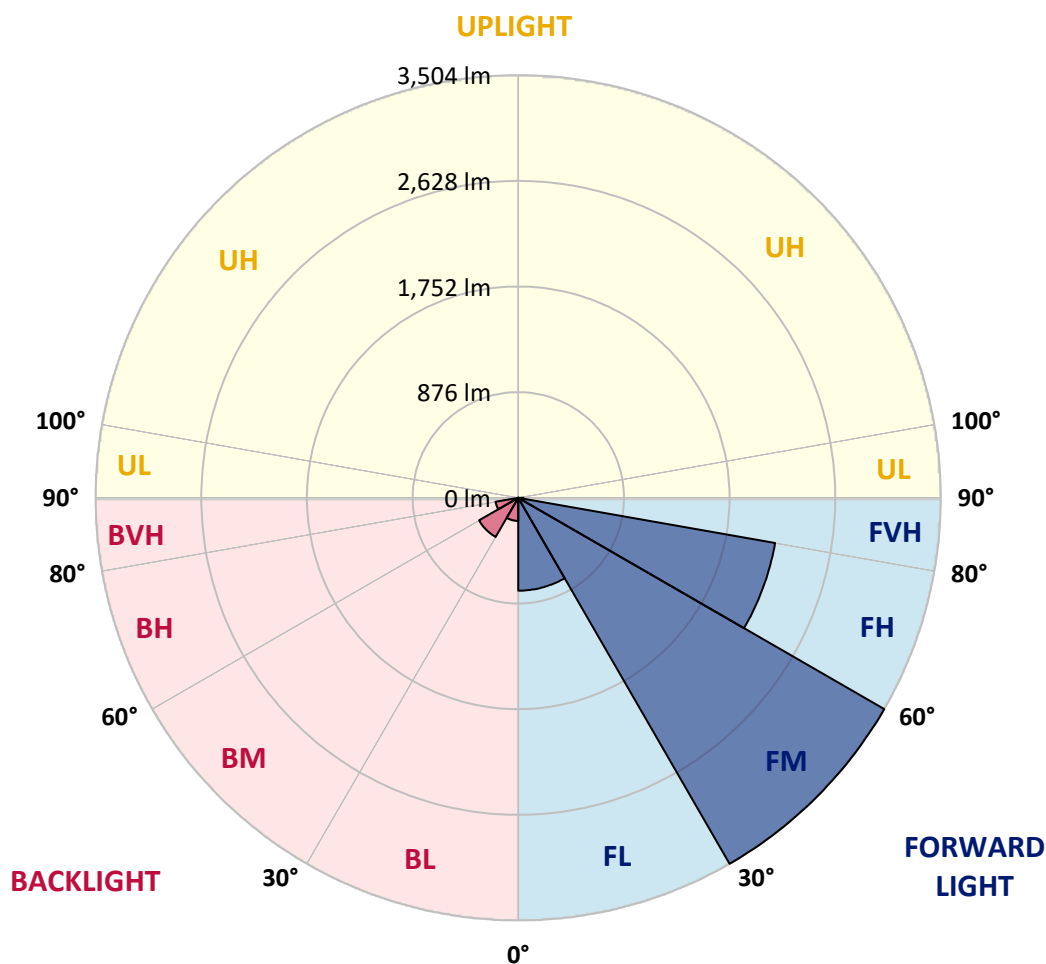
CATALOG NUMBER: ARCH4-60-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	769.8	10.6			
FM	(30°-60°)	3503.8	48.4			
FH	(60°-80°)	2161.9	29.8			G2/5000
FVH	(80°-90°)	43.2	0.6			G1/100
BL	(0°-30°)	191.4	2.6	B1/500		
BM	(30°-60°)	374.8	5.2	B1/1000		
BH	(60°-80°)	190.8	2.6	B1/500		G1/500
BVH	(80°-90°)	9.3	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 III Short



REPORT NUMBER: P842526

CATALOG NUMBER: ARCH4-60-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8
2.5°	1119.9	1129.0	1133.6	1135.1	1100.2	1085.0	1069.8	1034.8	1027.2	1007.5	981.6
5°	1317.4	1329.6	1326.6	1320.5	1277.9	1229.3	1189.8	1124.5	1113.8	1066.7	1009.0
7.5°	1512.0	1522.6	1519.5	1496.8	1449.7	1381.3	1315.9	1220.2	1205.0	1129.0	1036.3
10°	1674.5	1683.7	1682.1	1659.3	1603.1	1519.5	1440.5	1312.9	1294.7	1186.8	1059.1
12.5°	1808.3	1820.4	1818.9	1803.7	1753.6	1662.4	1572.7	1419.3	1396.5	1256.7	1091.0
15°	1913.1	1928.3	1928.3	1922.2	1887.3	1811.3	1709.5	1536.3	1508.9	1337.2	1130.5
17.5°	1976.9	1989.1	1999.7	2010.4	1986.1	1928.3	1835.6	1653.3	1624.4	1416.2	1171.6
20°	2010.4	2022.5	2030.1	2052.9	2057.5	2028.6	1955.7	1768.8	1738.4	1505.9	1218.7
22.5°	2065.1	2075.7	2077.2	2097.0	2106.1	2113.7	2068.1	1882.7	1858.4	1604.6	1271.9
25°	2156.2	2168.4	2163.8	2173.0	2174.5	2183.6	2179.0	2013.4	1989.1	1717.1	1335.7
27.5°	2273.2	2288.4	2285.4	2276.3	2262.6	2255.0	2274.8	2145.6	2122.8	1829.5	1401.0
30°	2399.4	2417.6	2413.0	2394.8	2358.3	2326.4	2353.8	2270.2	2248.9	1945.0	1474.0
32.5°	2527.0	2548.3	2546.8	2516.4	2454.1	2399.4	2440.4	2387.2	2372.0	2069.6	1553.0
35°	2610.6	2637.9	2634.9	2616.7	2536.1	2489.0	2539.2	2507.3	2496.6	2221.6	1666.9
37.5°	2745.8	2774.7	2748.9	2703.3	2610.6	2586.3	2647.1	2642.5	2634.9	2382.7	1787.0
40°	3074.0	3116.6	3048.2	2861.3	2709.4	2688.1	2774.7	2792.9	2785.3	2542.2	1894.9
42.5°	3417.5	3481.3	3374.9	3116.6	2888.7	2811.2	2914.5	2940.3	2931.2	2679.0	1992.1
45°	3625.6	3653.0	3546.6	3346.0	3206.3	2960.1	3063.4	3106.0	3098.4	2843.1	2116.7
47.5°	3795.8	3785.2	3663.6	3528.4	3554.2	3169.8	3232.1	3315.7	3309.6	3023.9	2253.5
50°	3832.3	3808.0	3759.4	3674.3	3742.7	3382.5	3409.9	3554.2	3548.1	3224.5	2391.8
52.5°	3575.5	3543.6	3675.8	3747.2	3724.4	3537.5	3605.9	3815.6	3812.6	3441.8	2524.0
55°	2934.3	2908.4	3264.0	3633.2	3704.7	3646.9	3823.2	4087.6	4104.3	3672.8	2644.0
57.5°	2308.2	2280.8	2630.3	3347.6	3631.7	3747.2	4077.0	4399.1	4420.4	3923.5	2758.0
60°	1840.2	1799.1	2066.6	2897.8	3495.0	3824.7	4321.6	4741.0	4744.0	4152.9	2827.9
62.5°	1250.6	1205.0	1501.3	2328.0	3265.5	3836.9	4510.0	5035.8	5047.9	4324.6	2840.0
65°	759.8	721.8	922.4	1700.4	2926.7	3733.5	4513.1	5253.1	5263.7	4403.7	2767.1
67.5°	440.7	425.5	527.3	1059.1	2364.4	3455.5	4323.1	5219.7	5239.4	4370.2	2601.5
70°	256.8	255.3	293.3	524.2	1668.5	2903.9	3899.2	4938.5	4967.4	4195.5	2347.7
72.5°	188.4	191.5	206.7	281.1	966.4	2090.9	3302.0	4373.3	4417.3	3853.6	1986.1
75°	148.9	150.4	164.1	191.5	507.5	1182.2	2473.8	3510.2	3545.1	3244.2	1551.5
77.5°	110.9	114.0	124.6	135.2	235.5	542.5	1391.9	2162.3	2104.6	1780.9	749.1
80°	80.5	88.1	92.7	97.3	124.6	209.7	417.9	753.7	747.6	778.0	354.1
82.5°	51.7	57.7	62.3	65.3	74.5	100.3	124.6	168.7	182.3	302.4	141.3
85°	22.8	25.8	28.9	34.9	31.9	34.9	51.7	33.4	28.9	45.6	25.8
87.5°	0.0	0.0	4.6	7.6	6.1	3.0	9.1	6.1	4.6	4.6	4.6
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: P842526

CATALOG NUMBER: ARCH4-60-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8
2.5°	968.0	951.2	916.3	882.9	863.1	837.3	814.5	793.2	791.7	785.6	775.0
5°	980.1	948.2	882.9	820.6	773.5	723.3	680.8	647.3	635.2	626.1	613.9
7.5°	992.3	942.1	844.9	753.7	679.2	609.3	559.2	513.6	499.9	487.8	480.2
10°	996.8	931.5	800.8	679.2	582.0	507.5	454.3	420.9	408.8	402.7	398.1
12.5°	1010.5	925.4	759.8	609.3	496.9	428.5	390.5	370.8	366.2	361.7	357.1
15°	1028.7	925.4	718.7	541.0	430.0	375.3	352.5	338.9	335.8	334.3	331.3
17.5°	1048.5	925.4	679.2	483.2	381.4	340.4	323.7	316.1	314.5	313.0	311.5
20°	1075.8	926.9	636.7	433.1	346.5	314.5	300.9	291.8	290.2	288.7	288.7
22.5°	1103.2	930.0	595.7	395.1	323.7	294.8	278.1	269.0	265.9	265.9	265.9
25°	1138.1	939.1	557.7	363.2	303.9	276.6	255.3	247.7	246.2	246.2	244.6
27.5°	1179.2	949.7	524.2	338.9	284.2	255.3	234.0	226.4	223.4	223.4	221.9
30°	1223.2	960.4	496.9	320.6	264.4	234.0	214.3	205.1	202.1	203.6	202.1
32.5°	1271.9	975.6	475.6	308.5	246.2	215.8	197.5	186.9	185.4	185.4	183.9
35°	1353.9	1018.1	472.6	302.4	231.0	202.1	183.9	173.2	171.7	171.7	170.2
37.5°	1442.1	1066.7	486.3	299.4	218.8	189.9	173.2	162.6	161.1	161.1	161.1
40°	1516.5	1103.2	501.5	299.4	211.2	179.3	164.1	155.0	155.0	155.0	155.0
42.5°	1566.7	1106.2	498.4	299.4	205.1	171.7	158.0	148.9	148.9	150.4	148.9
45°	1641.1	1121.4	486.3	294.8	200.6	165.6	152.0	144.4	142.8	144.4	144.4
47.5°	1729.2	1148.8	474.1	276.6	199.1	159.6	147.4	138.3	136.8	138.3	136.8
50°	1812.8	1173.1	468.0	252.2	196.0	153.5	141.3	132.2	130.7	132.2	130.7
52.5°	1882.7	1183.7	457.4	235.5	188.4	147.4	135.2	126.1	123.1	124.6	124.6
55°	1938.9	1180.7	442.2	221.9	174.7	141.3	127.6	120.0	115.5	115.5	114.0
57.5°	1990.6	1182.2	428.5	208.2	159.6	132.2	121.6	112.4	106.4	104.8	103.3
60°	2010.4	1174.6	404.2	189.9	144.4	124.6	114.0	103.3	97.3	95.7	94.2
62.5°	1983.0	1147.3	372.3	158.0	130.7	115.5	106.4	95.7	89.7	88.1	86.6
65°	1905.5	1095.6	323.7	124.6	118.5	104.8	97.3	89.7	82.1	79.0	77.5
67.5°	1773.3	1021.1	262.9	100.3	104.8	95.7	91.2	82.1	72.9	69.9	68.4
70°	1584.9	922.4	197.5	85.1	92.7	85.1	82.1	72.9	65.3	62.3	60.8
72.5°	1320.5	762.8	138.3	72.9	80.5	74.5	71.4	65.3	57.7	53.2	53.2
75°	998.3	547.0	91.2	62.3	66.9	63.8	59.3	54.7	50.1	47.1	45.6
77.5°	430.0	212.7	56.2	47.1	54.7	53.2	47.1	44.1	42.5	39.5	39.5
80°	185.4	86.6	34.9	34.9	39.5	38.0	36.5	33.4	33.4	31.9	30.4
82.5°	68.4	34.9	21.3	25.8	28.9	25.8	25.8	25.8	25.8	24.3	24.3
85°	16.7	10.6	10.6	15.2	16.7	15.2	16.7	15.2	15.2	15.2	13.7
87.5°	4.6	4.6	6.1	6.1	6.1	6.1	6.1	4.6	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)