

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: P836677

Luminaire Tested: **ARCH3-60-727-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6910 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63.2
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

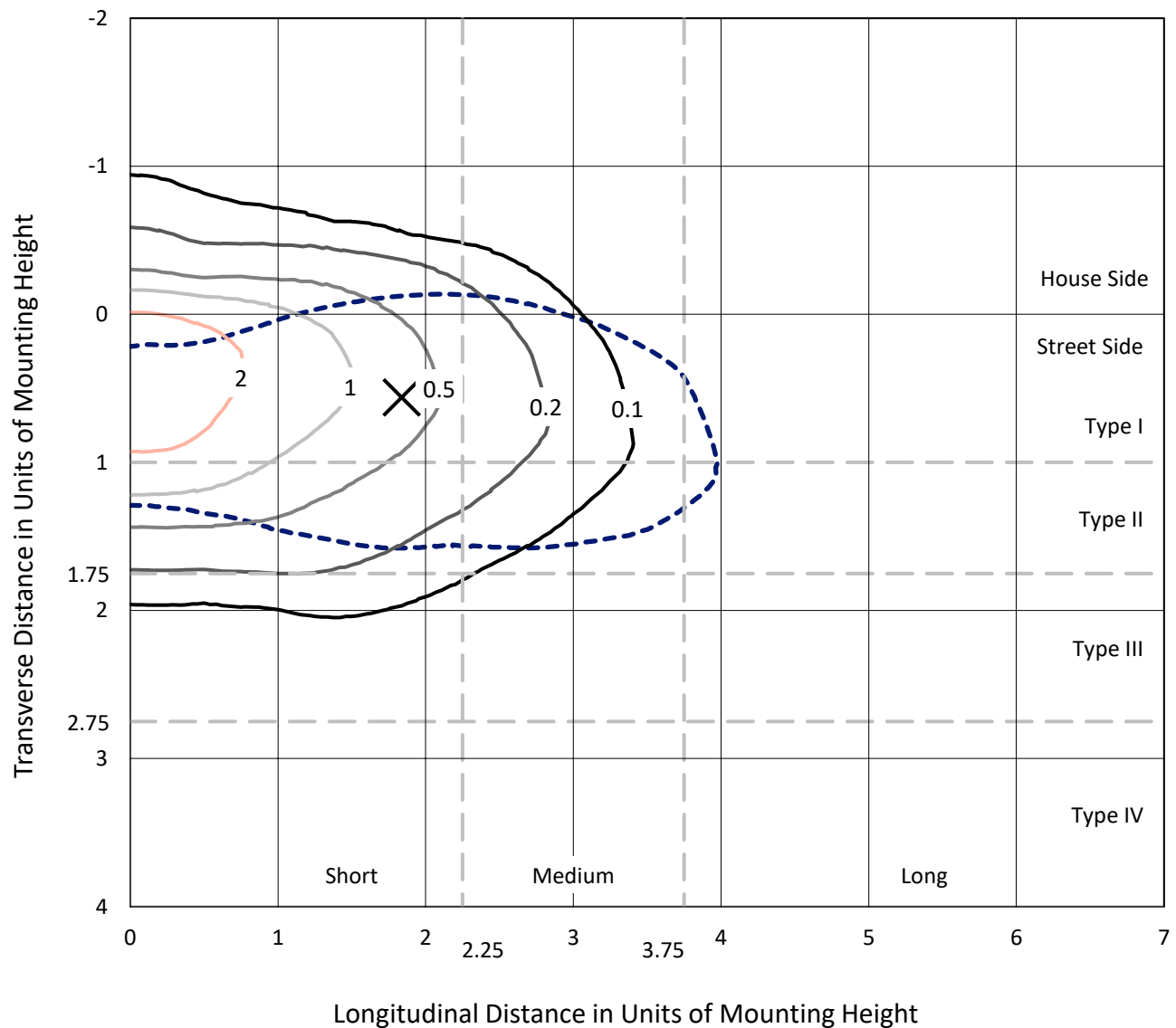


REPORT NUMBER: P836677

CATALOG NUMBER: ARCH3-60-727-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

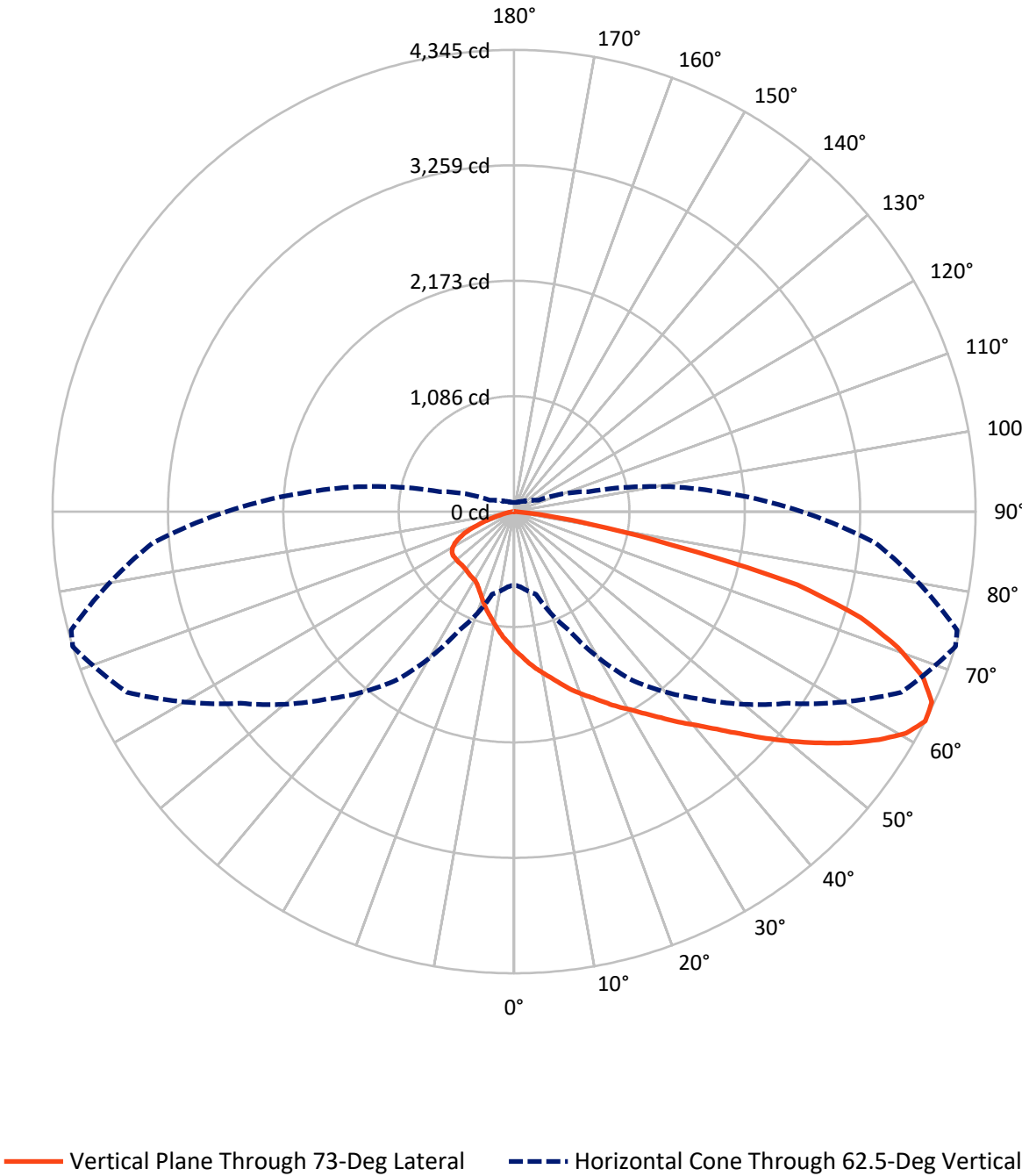
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type II - Short - N/A

REPORT NUMBER: P836677
CATALOG NUMBER: ARCH3-60-727-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P836677

CATALOG NUMBER: ARCH3-60-727-U-T2U-HSS

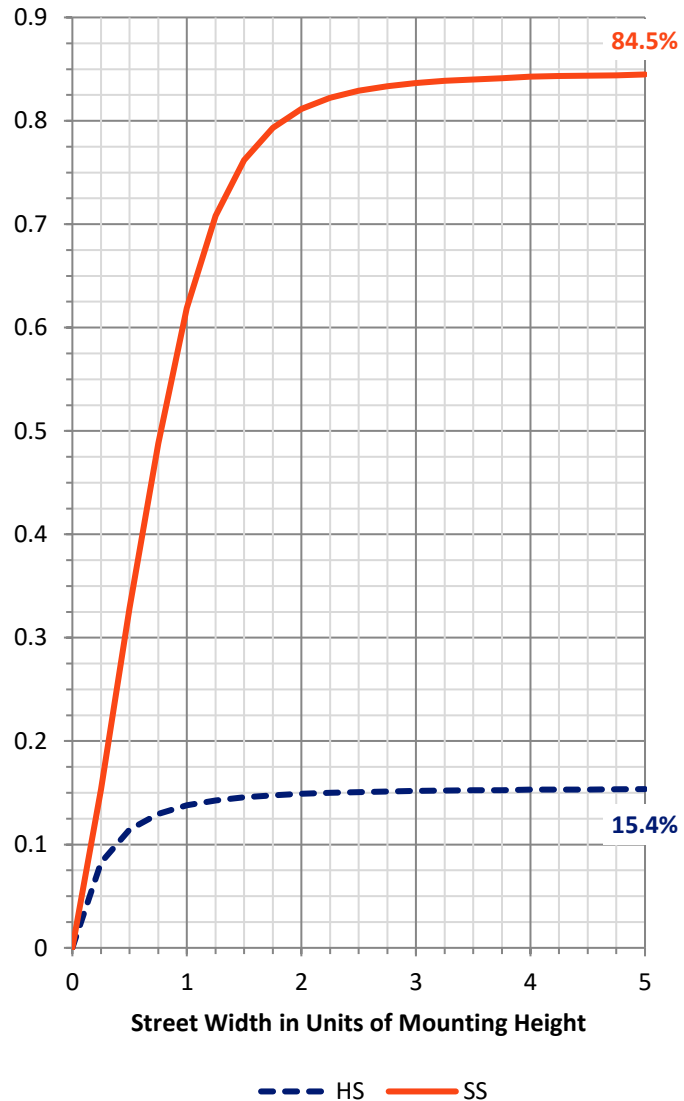
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1071.2	0.0	1071.2
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	5838.8	0.0	5838.8
	% Fixture	84.5	0.0	84.5
Total	Lumens	6910.0	0.0	6910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	1.8
10°-20°	381.4	5.5
20°-30°	634.9	9.2
30°-40°	957.9	13.9
40°-50°	1339.0	19.4
50°-60°	1479.0	21.4
60°-70°	1288.4	18.6
70°-80°	650.8	9.4
80°-90°	52.2	0.8
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°	6910.0	100.0
0°-180°	6910.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836677

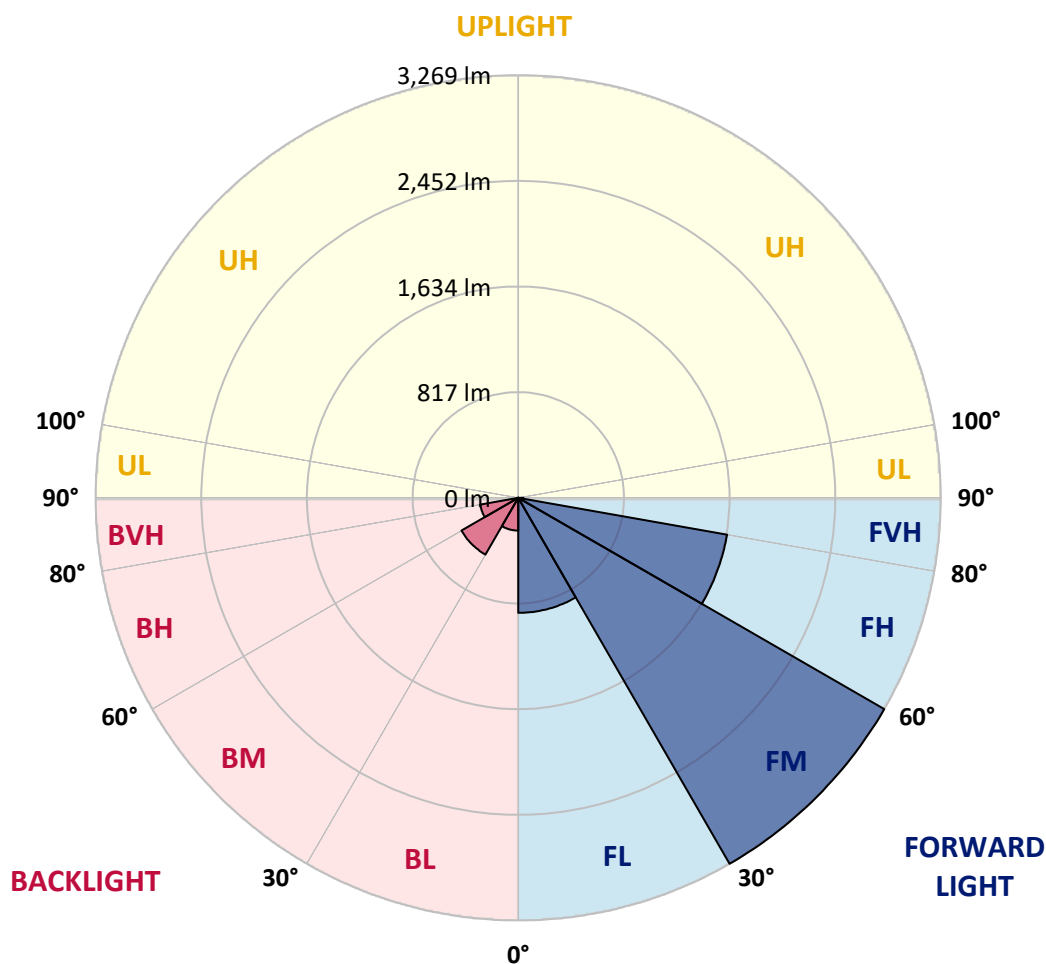
CATALOG NUMBER: ARCH3-60-727-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	889.5	12.9			
FM	(30°-60°)	3268.7	47.3			
FH	(60°-80°)	1640.2	23.7			G1/1800
FVH	(80°-90°)	40.4	0.6			G1/100
BL	(0°-30°)	253.2	3.7	B1/500		
BM	(30°-60°)	507.2	7.3	B1/1000		
BH	(60°-80°)	299.0	4.3	B1/500		G1/500
BVH	(80°-90°)	11.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



REPORT NUMBER: P836677

CATALOG NUMBER: ARCH3-60-727-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4
2.5°	1489.1	1505.7	1496.6	1502.7	1472.5	1453.0	1430.4	1386.7	1362.6	1359.6	1331.0
5°	1707.4	1725.5	1710.4	1705.9	1653.2	1608.1	1556.9	1480.1	1428.9	1419.8	1356.6
7.5°	1925.7	1942.3	1924.2	1910.7	1839.9	1760.1	1684.8	1571.9	1492.1	1477.1	1377.7
10°	2079.3	2094.4	2080.8	2067.3	1993.5	1912.2	1805.3	1657.7	1549.3	1525.2	1391.2
12.5°	2195.3	2204.3	2198.3	2186.2	2117.0	2029.6	1927.3	1754.1	1614.1	1584.0	1412.3
15°	2290.1	2305.2	2297.6	2288.6	2222.4	2135.0	2037.2	1855.0	1689.4	1651.7	1443.9
17.5°	2353.4	2363.9	2365.4	2365.4	2306.7	2220.9	2126.0	1946.8	1764.6	1716.5	1474.0
20°	2382.0	2394.0	2401.5	2413.6	2365.4	2291.6	2195.3	2025.1	1835.4	1781.2	1502.7
22.5°	2395.5	2406.1	2425.6	2452.7	2413.6	2351.8	2263.0	2097.4	1906.2	1849.0	1535.8
25°	2406.1	2419.6	2448.2	2499.4	2472.3	2419.6	2342.8	2180.2	1990.5	1931.8	1584.0
27.5°	2434.7	2451.2	2478.3	2540.1	2506.9	2481.3	2427.1	2269.0	2079.3	2019.1	1642.7
30°	2534.0	2547.6	2546.1	2585.2	2544.6	2537.0	2499.4	2354.9	2165.1	2104.9	1711.9
32.5°	2714.7	2728.3	2695.1	2680.1	2591.2	2592.8	2577.7	2446.7	2267.5	2205.8	1791.7
35°	2908.9	2924.0	2880.3	2854.7	2705.7	2662.0	2669.5	2561.1	2382.0	2320.2	1891.1
37.5°	3082.1	3100.2	3062.5	3024.9	2874.3	2773.4	2771.9	2689.1	2513.0	2449.7	2001.0
40°	3177.0	3198.0	3220.6	3199.5	3041.4	2930.0	2881.8	2820.1	2642.4	2577.7	2120.0
42.5°	3222.1	3280.8	3321.5	3307.9	3178.5	3065.5	3008.3	2957.1	2800.5	2737.3	2261.5
45°	3095.6	3097.2	3183.0	3256.8	3232.7	3157.4	3146.8	3110.7	2981.2	2921.0	2421.1
47.5°	2937.6	2925.5	2985.7	3116.7	3184.5	3204.1	3265.8	3280.8	3187.5	3127.3	2583.7
50°	2558.1	2565.7	2761.4	2949.6	3082.1	3208.6	3350.1	3455.5	3399.8	3342.6	2755.4
52.5°	2080.8	2098.9	2323.2	2737.3	2946.6	3163.4	3399.8	3630.2	3616.6	3562.4	2927.0
55°	1668.3	1696.9	1934.8	2383.5	2773.4	3062.5	3420.9	3789.8	3841.0	3791.3	3095.6
57.5°	1275.3	1305.4	1505.7	1966.4	2552.1	2898.4	3405.8	3929.8	4050.2	4018.6	3250.7
60°	960.6	990.7	1118.7	1594.5	2275.1	2714.7	3330.5	4021.6	4238.4	4205.3	3363.7
62.5°	688.1	712.2	807.0	1240.7	1937.8	2496.4	3145.3	4023.1	4345.4	4318.2	3417.9
65°	495.4	495.4	572.2	885.3	1621.6	2234.4	2865.3	3837.9	4322.8	4315.2	3380.2
67.5°	356.8	359.9	421.6	618.8	1293.4	1916.7	2502.4	3508.2	4148.1	4185.7	3244.7
70°	253.0	260.5	289.1	432.1	977.2	1513.2	2114.0	3076.1	3833.4	3899.7	2982.7
72.5°	195.7	200.3	219.8	301.1	713.7	1124.7	1684.8	2594.3	3413.3	3488.6	2625.9
75°	150.6	155.1	170.1	221.3	511.9	789.0	1197.0	2013.1	2752.4	2886.4	2109.4
77.5°	109.9	115.9	126.5	161.1	298.1	501.4	725.7	1132.3	1519.2	1582.5	1105.2
80°	51.2	58.7	73.8	103.9	161.1	236.4	257.5	436.6	730.2	763.4	599.3
82.5°	28.6	36.1	42.2	63.2	81.3	84.3	87.3	109.9	275.5	304.1	251.4
85°	13.6	18.1	19.6	27.1	27.1	24.1	28.6	21.1	45.2	54.2	52.7
87.5°	0.0	1.5	3.0	7.5	6.0	4.5	4.5	4.5	4.5	6.0	4.5
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: P836677

CATALOG NUMBER: ARCH3-60-727-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4
2.5°	1317.5	1297.9	1252.7	1213.6	1188.0	1165.4	1135.3	1121.7	1097.6	1102.1	1088.6
5°	1325.0	1288.8	1209.0	1135.3	1081.1	1032.9	980.2	950.1	917.0	913.9	903.4
7.5°	1329.5	1273.8	1159.4	1055.5	972.7	898.9	828.1	789.0	748.3	739.3	730.2
10°	1325.0	1251.2	1108.2	972.7	862.7	770.9	691.1	641.4	599.3	588.7	579.7
12.5°	1329.5	1239.2	1060.0	895.9	764.9	661.0	570.6	519.5	480.3	469.8	463.7
15°	1340.0	1231.6	1019.3	826.6	677.5	561.6	472.8	429.1	397.5	387.0	383.9
17.5°	1349.1	1224.1	975.7	758.9	590.2	474.3	397.5	361.4	334.3	323.7	320.7
20°	1361.1	1213.6	932.0	694.1	513.4	405.0	337.3	305.7	284.6	277.0	275.5
22.5°	1371.7	1206.0	891.4	629.4	442.7	349.3	292.1	266.5	251.4	243.9	243.9
25°	1398.8	1209.0	856.7	569.1	390.0	305.7	257.5	237.9	225.8	221.3	221.3
27.5°	1430.4	1221.1	829.6	517.9	344.8	272.5	233.4	216.8	210.8	204.8	206.3
30°	1475.6	1245.2	811.6	475.8	311.7	246.9	213.8	201.8	195.7	194.2	194.2
32.5°	1532.8	1284.3	810.0	448.7	287.6	227.4	200.3	189.7	186.7	185.2	185.2
35°	1600.5	1319.0	801.0	436.6	272.5	213.8	189.7	182.2	180.7	180.7	180.7
37.5°	1681.8	1376.2	795.0	420.1	265.0	206.3	182.2	176.2	176.2	176.2	176.2
40°	1766.1	1422.9	786.0	405.0	262.0	201.8	177.7	170.1	170.1	170.1	170.1
42.5°	1867.0	1490.6	782.9	397.5	257.5	198.7	171.6	162.6	164.1	164.1	165.6
45°	1989.0	1567.4	781.4	390.0	256.0	195.7	165.6	155.1	156.6	155.1	155.1
47.5°	2112.4	1656.2	786.0	385.5	254.5	192.7	161.1	147.6	147.6	146.0	146.0
50°	2241.9	1737.5	789.0	380.9	251.4	186.7	153.6	141.5	138.5	135.5	137.0
52.5°	2363.9	1812.8	790.5	373.4	242.4	177.7	147.6	134.0	129.5	125.0	126.5
55°	2485.9	1885.1	793.5	364.4	230.4	168.6	140.0	126.5	120.5	114.4	114.4
57.5°	2595.8	1948.3	786.0	341.8	216.8	159.6	132.5	117.4	108.4	102.4	102.4
60°	2671.1	1993.5	763.4	308.7	198.7	149.1	125.0	108.4	97.9	93.4	93.4
62.5°	2707.2	2001.0	722.7	254.5	176.2	138.5	115.9	99.4	90.3	87.3	87.3
65°	2672.6	1967.9	659.5	191.2	152.1	126.5	106.9	91.8	82.8	75.3	75.3
67.5°	2552.1	1874.6	572.2	144.5	129.5	114.4	97.9	84.3	73.8	67.8	67.8
70°	2309.7	1680.3	442.7	115.9	109.9	99.4	88.8	75.3	66.2	58.7	58.7
72.5°	1992.0	1424.4	311.7	93.4	93.4	84.3	75.3	66.2	57.2	51.2	51.2
75°	1528.3	1054.0	209.3	75.3	76.8	70.8	61.7	54.2	48.2	43.7	43.7
77.5°	834.1	521.0	128.0	55.7	57.2	54.2	48.2	43.7	40.7	36.1	36.1
80°	405.0	228.9	73.8	39.1	40.7	39.1	36.1	31.6	31.6	28.6	28.6
82.5°	170.1	85.8	39.1	27.1	27.1	24.1	22.6	22.6	22.6	21.1	21.1
85°	42.2	16.6	16.6	15.1	15.1	15.1	13.6	13.6	13.6	10.5	12.0
87.5°	6.0	6.0	6.0	6.0	6.0	6.0	4.5	1.5	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)