

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: P836681

Luminaire Tested: **ARCH3-60-727-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-727-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6847 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

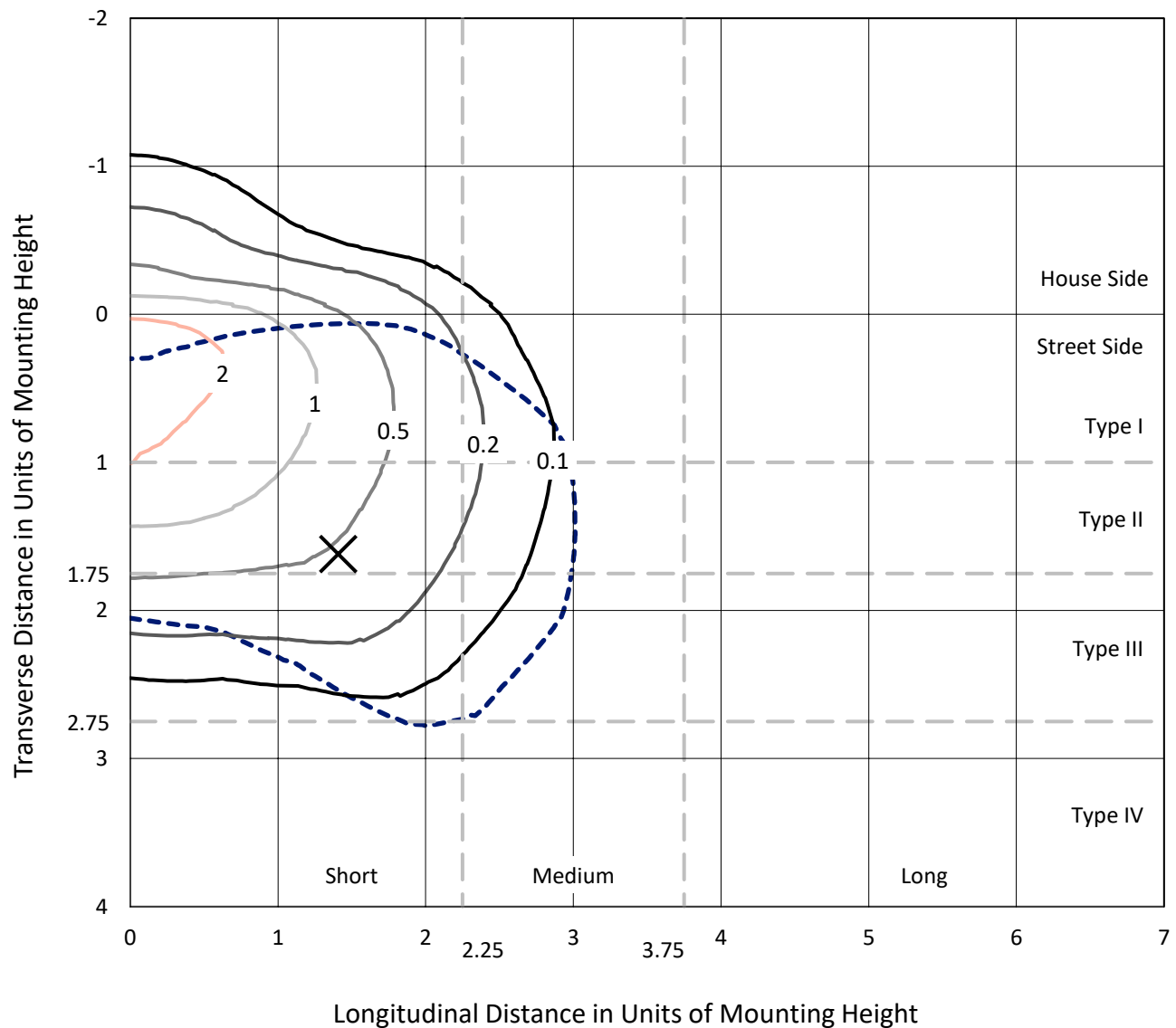
Input Watts (W): 63.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P836681
CATALOG NUMBER: ARCH3-60-727-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

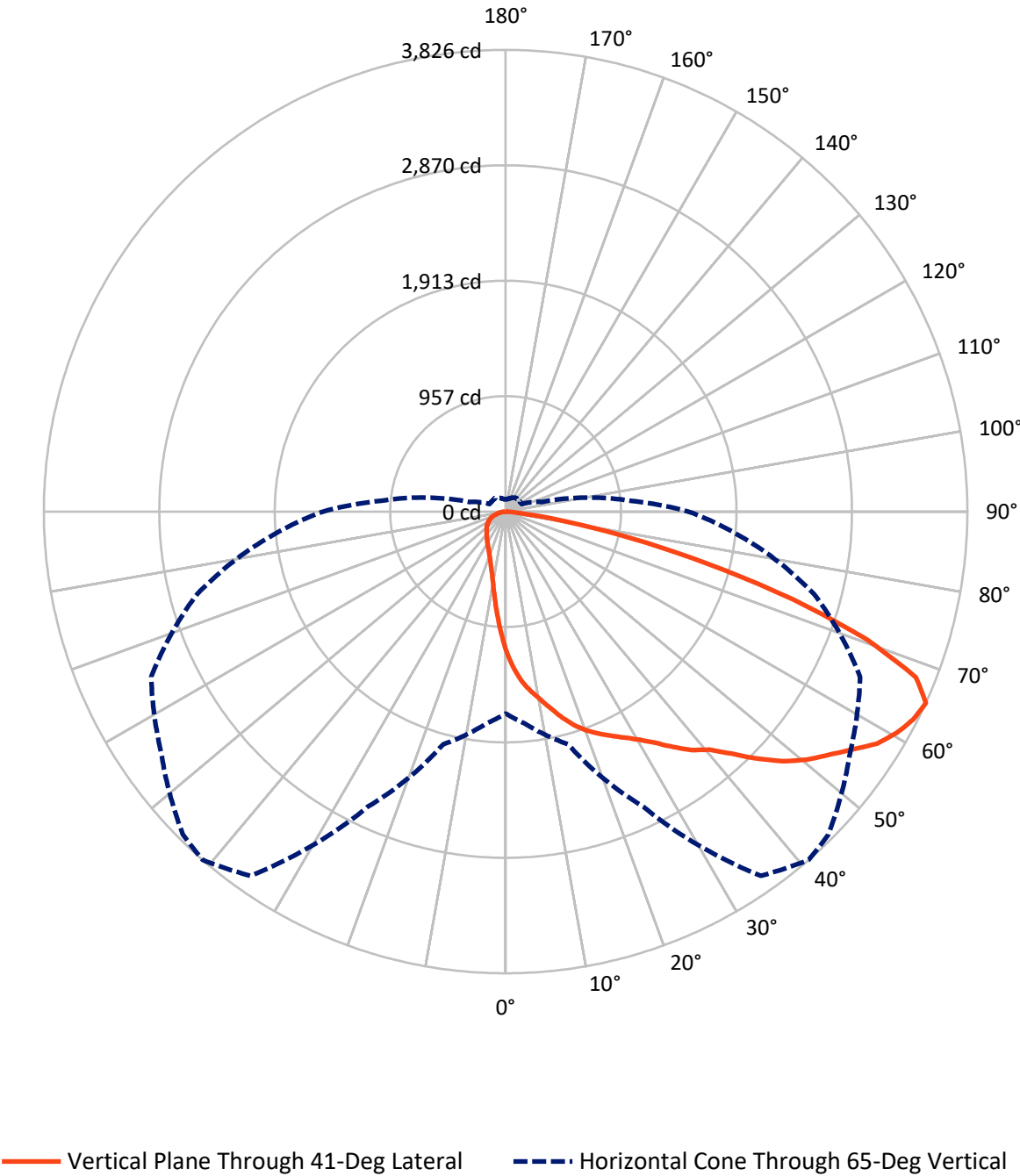
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type III - Short - N/A

REPORT NUMBER: P836681
CATALOG NUMBER: ARCH3-60-727-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P836681

CATALOG NUMBER: ARCH3-60-727-U-T4W-HSS

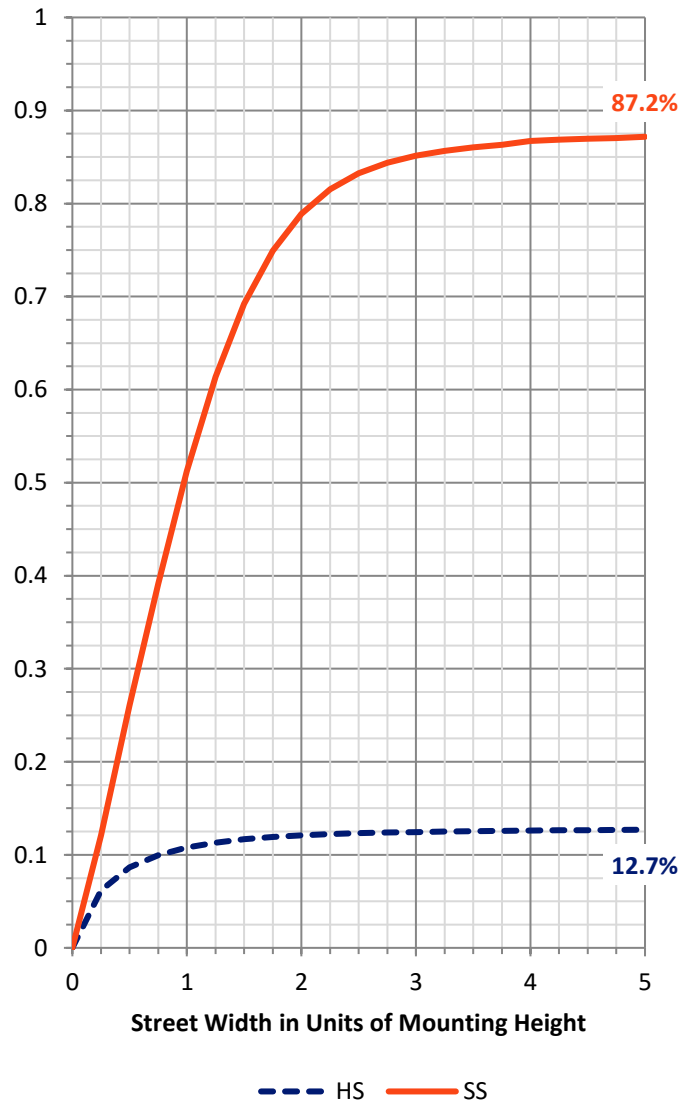
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	879.1	0.0	879.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	5968.0	0.0	5968.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	6847.0	0.0	6847.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	1.6
10°-20°	326.0	4.8
20°-30°	560.8	8.2
30°-40°	850.5	12.4
40°-50°	1246.0	18.2
50°-60°	1573.4	23.0
60°-70°	1475.4	21.5
70°-80°	657.6	9.6
80°-90°	48.7	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°	6847.0	100.0
0°-180°	6847.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836681

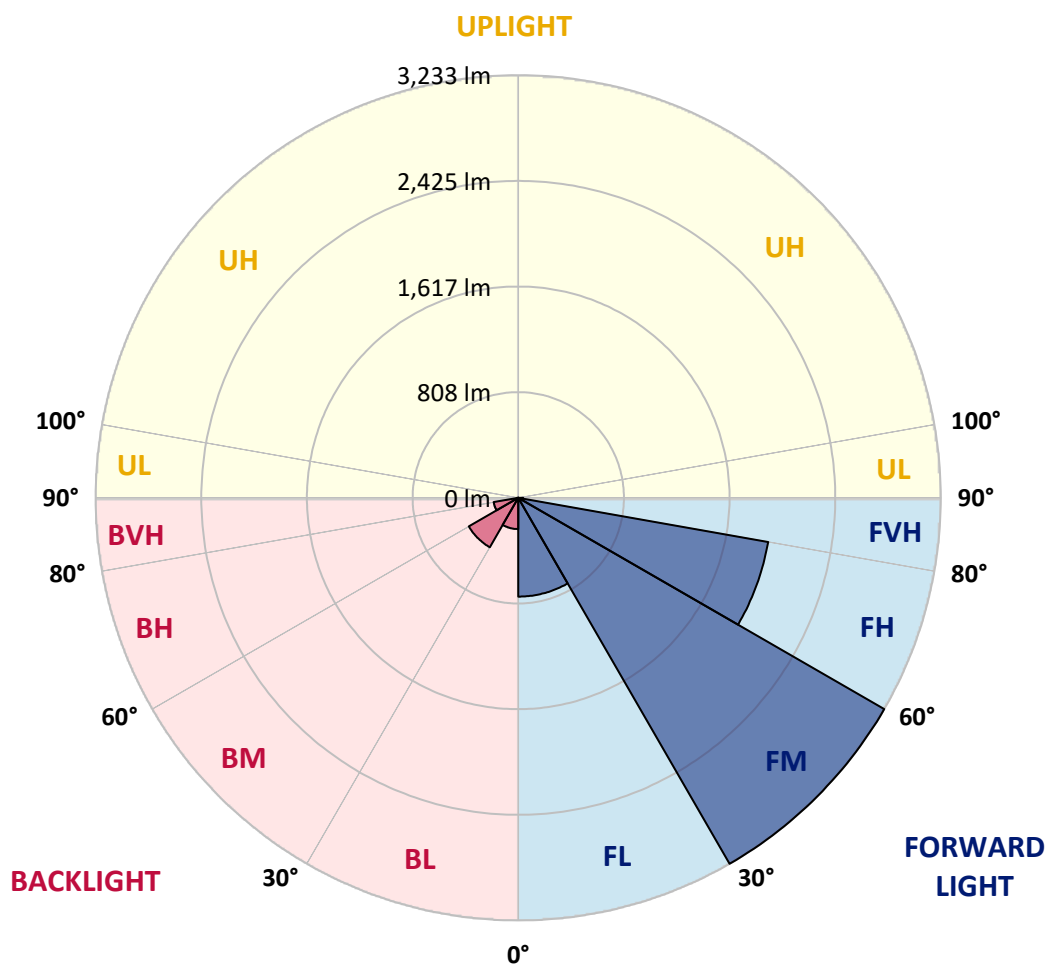
CATALOG NUMBER: ARCH3-60-727-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	756.2	11.0			
FM	(30°-60°)	3233.4	47.2			
FH	(60°-80°)	1942.0	28.4			G2/5000
FVH	(80°-90°)	36.4	0.5			G1/100
BL	(0°-30°)	239.3	3.5	B1/500		
BM	(30°-60°)	436.5	6.4	B1/1000		
BH	(60°-80°)	191.0	2.8	B1/500		G1/500
BVH	(80°-90°)	12.3	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-G2

Type III Short



REPORT NUMBER: P836681

CATALOG NUMBER: ARCH3-60-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7
2.5°	1345.7	1341.4	1338.5	1322.6	1322.6	1301.0	1302.4	1282.2	1257.7	1218.7	1176.8
5°	1472.8	1467.0	1459.8	1443.9	1438.2	1416.5	1413.6	1384.7	1342.9	1275.0	1199.9
7.5°	1584.0	1578.2	1568.1	1545.0	1529.1	1503.1	1495.9	1458.4	1412.2	1328.4	1223.0
10°	1685.1	1680.7	1667.7	1638.9	1617.2	1585.4	1572.4	1521.9	1464.1	1371.7	1241.8
12.5°	1787.6	1781.8	1764.5	1739.9	1713.9	1676.4	1660.5	1595.5	1521.9	1419.4	1269.2
15°	1882.9	1874.2	1861.2	1835.2	1812.1	1776.0	1758.7	1682.2	1592.7	1472.8	1305.3
17.5°	1945.0	1937.8	1926.2	1911.8	1893.0	1865.6	1848.2	1773.1	1663.4	1524.8	1342.9
20°	1982.5	1979.6	1975.3	1966.6	1958.0	1939.2	1926.2	1855.4	1739.9	1575.3	1379.0
22.5°	2011.4	2008.5	2007.1	2007.1	2008.5	2001.3	1992.6	1932.0	1813.6	1628.7	1412.2
25°	2056.2	2054.7	2051.8	2048.9	2059.0	2060.5	2057.6	2015.7	1906.0	1699.5	1454.0
27.5°	2118.2	2113.9	2108.1	2105.2	2115.4	2122.6	2128.3	2099.5	2004.2	1771.7	1501.7
30°	2213.5	2200.5	2186.1	2176.0	2183.2	2194.8	2207.8	2190.4	2105.2	1861.2	1550.8
32.5°	2326.2	2310.3	2277.1	2258.3	2277.1	2285.7	2295.8	2287.2	2210.7	1958.0	1599.9
35°	2463.3	2444.6	2409.9	2382.5	2415.7	2396.9	2392.6	2383.9	2310.3	2053.3	1654.7
37.5°	2691.5	2664.0	2609.2	2548.5	2548.5	2508.1	2492.2	2466.2	2399.8	2138.5	1708.2
40°	2955.7	2919.6	2848.9	2759.3	2677.0	2593.3	2583.2	2564.4	2505.2	2236.6	1768.8
42.5°	3245.9	3176.6	3078.5	2970.2	2837.3	2742.0	2718.9	2665.5	2607.7	2336.3	1829.5
45°	3567.9	3423.6	3280.6	3225.7	3006.3	2919.6	2876.3	2779.6	2714.6	2440.2	1893.0
47.5°	3619.9	3507.3	3412.0	3403.3	3163.6	3091.4	3042.4	2903.7	2830.1	2551.4	1959.4
50°	3591.0	3523.2	3533.3	3498.6	3279.2	3231.5	3194.0	3036.6	2944.2	2658.3	2020.1
52.5°	3469.8	3507.3	3565.1	3501.5	3388.9	3349.9	3331.1	3179.5	3051.0	2756.5	2074.9
55°	3325.4	3351.4	3475.5	3553.5	3516.0	3481.3	3464.0	3345.6	3156.4	2838.8	2125.5
57.5°	3114.6	3103.0	3240.2	3544.8	3648.8	3628.6	3609.8	3508.7	3254.6	2898.0	2157.2
60°	2798.3	2773.8	2947.1	3371.6	3692.1	3723.9	3715.2	3617.0	3329.7	2896.5	2144.2
62.5°	2251.1	2311.7	2551.4	3088.6	3710.9	3791.8	3775.9	3625.7	3354.2	2812.8	2061.9
65°	1673.5	1760.1	1995.5	2698.7	3684.9	3826.4	3783.1	3484.2	3240.2	2646.7	1881.4
67.5°	1205.7	1282.2	1454.0	2220.8	3435.1	3667.6	3617.0	3253.2	2977.4	2411.4	1631.6
70°	824.5	879.4	996.3	1617.2	2932.6	3170.9	3139.1	2908.1	2563.0	2131.2	1325.5
72.5°	581.9	605.0	680.1	1067.1	2228.0	2487.9	2450.3	2392.6	2059.0	1771.7	1031.0
75°	436.1	450.5	490.9	690.2	1503.1	1724.0	1689.4	1722.6	1537.8	1341.4	750.8
77.5°	164.6	179.0	278.7	440.4	889.5	1058.4	1023.7	1044.0	854.8	677.2	374.0
80°	44.8	47.6	92.4	209.4	404.3	527.0	479.4	411.5	317.7	311.9	197.8
82.5°	18.8	21.7	41.9	112.6	144.4	144.4	121.3	150.2	121.3	145.8	95.3
85°	7.2	8.7	10.1	28.9	18.8	20.2	21.7	28.9	24.5	30.3	21.7
87.5°	0.0	0.0	0.0	1.4	1.4	2.9	1.4	2.9	4.3	4.3	4.3
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: P836681

CATALOG NUMBER: ARCH3-60-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7
2.5°	1159.5	1143.6	1120.5	1082.9	1044.0	1022.3	994.9	990.5	961.7	958.8	947.2
5°	1166.7	1133.5	1074.3	1002.1	931.3	876.5	836.0	814.4	772.5	772.5	760.9
7.5°	1172.5	1120.5	1025.2	918.3	821.6	748.0	693.1	670.0	632.4	629.6	620.9
10°	1173.9	1104.6	971.8	833.1	714.7	639.7	586.2	560.2	527.0	524.1	518.4
12.5°	1185.5	1095.9	924.1	759.5	638.2	557.4	505.4	483.7	457.7	454.8	449.1
15°	1204.2	1095.9	883.7	697.4	570.4	495.3	450.5	430.3	411.5	408.6	405.7
17.5°	1223.0	1093.1	843.3	639.7	514.0	446.2	407.2	391.3	376.9	375.4	372.5
20°	1240.3	1091.6	802.8	590.6	470.7	405.7	375.4	361.0	349.4	349.4	348.0
22.5°	1257.7	1088.7	763.8	544.4	433.2	375.4	349.4	333.5	324.9	324.9	323.4
25°	1283.7	1088.7	727.7	505.4	402.9	352.3	326.3	314.8	307.6	306.1	306.1
27.5°	1314.0	1097.4	696.0	470.7	376.9	329.2	309.0	297.4	288.8	285.9	287.3
30°	1347.2	1104.6	667.1	440.4	352.3	311.9	290.2	278.7	270.0	267.1	268.6
32.5°	1380.4	1113.3	641.1	413.0	327.8	296.0	274.3	261.4	252.7	251.2	251.2
35°	1416.5	1121.9	615.1	389.9	307.6	280.1	259.9	245.5	239.7	236.8	238.2
37.5°	1452.6	1136.4	590.6	368.2	293.1	265.7	246.9	232.5	228.1	226.7	226.7
40°	1495.9	1158.0	580.5	353.8	280.1	252.7	236.8	222.4	218.0	218.0	218.0
42.5°	1532.0	1175.4	571.8	337.9	270.0	241.1	226.7	215.1	212.3	210.8	212.3
45°	1568.1	1191.2	560.2	323.4	257.0	229.6	218.0	206.5	203.6	203.6	203.6
47.5°	1604.2	1199.9	544.4	309.0	245.5	219.5	209.4	199.3	196.4	196.4	196.4
50°	1633.1	1207.1	521.3	293.1	232.5	210.8	200.7	190.6	187.7	187.7	187.7
52.5°	1662.0	1208.6	496.7	274.3	219.5	200.7	192.0	181.9	179.0	177.6	177.6
55°	1688.0	1207.1	467.8	252.7	205.0	189.2	181.9	173.3	167.5	161.7	164.6
57.5°	1706.7	1205.7	434.6	231.0	190.6	177.6	174.7	163.2	151.6	137.2	140.1
60°	1699.5	1189.8	398.5	203.6	174.7	166.1	166.1	150.2	130.0	122.7	124.2
62.5°	1653.3	1145.0	361.0	174.7	158.8	154.5	153.1	135.7	119.8	112.6	114.1
65°	1514.7	1032.4	306.1	148.7	142.9	141.5	141.5	125.6	111.2	102.5	104.0
67.5°	1303.9	866.4	249.8	125.6	127.1	130.0	130.0	115.5	101.1	92.4	93.9
70°	1045.4	677.2	199.3	108.3	109.7	114.1	117.0	104.0	91.0	82.3	82.3
72.5°	786.9	514.0	160.3	91.0	98.2	98.2	102.5	92.4	79.4	70.8	72.2
75°	570.4	368.2	127.1	76.5	85.2	83.7	83.7	78.0	67.9	62.1	62.1
77.5°	270.0	193.5	101.1	54.9	66.4	65.0	66.4	62.1	57.8	52.0	53.4
80°	132.8	95.3	65.0	39.0	46.2	47.6	52.0	49.1	47.6	43.3	43.3
82.5°	63.5	37.5	30.3	27.4	31.8	33.2	36.1	36.1	37.5	34.7	34.7
85°	17.3	10.1	13.0	17.3	20.2	21.7	24.5	26.0	26.0	24.5	26.0
87.5°	4.3	4.3	5.8	8.7	10.1	11.6	13.0	13.0	5.8	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)