

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: P842591

Luminaire Tested: **ARCH4-70-722-U-T4W-HSS**

Issue Date: 5/27/2024

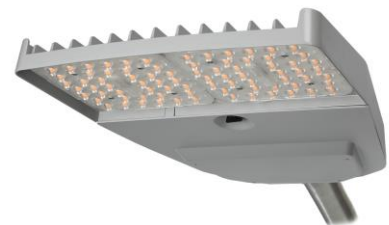
Test Information

Test Method: LM-79-08
Report Number: P842591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-70-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

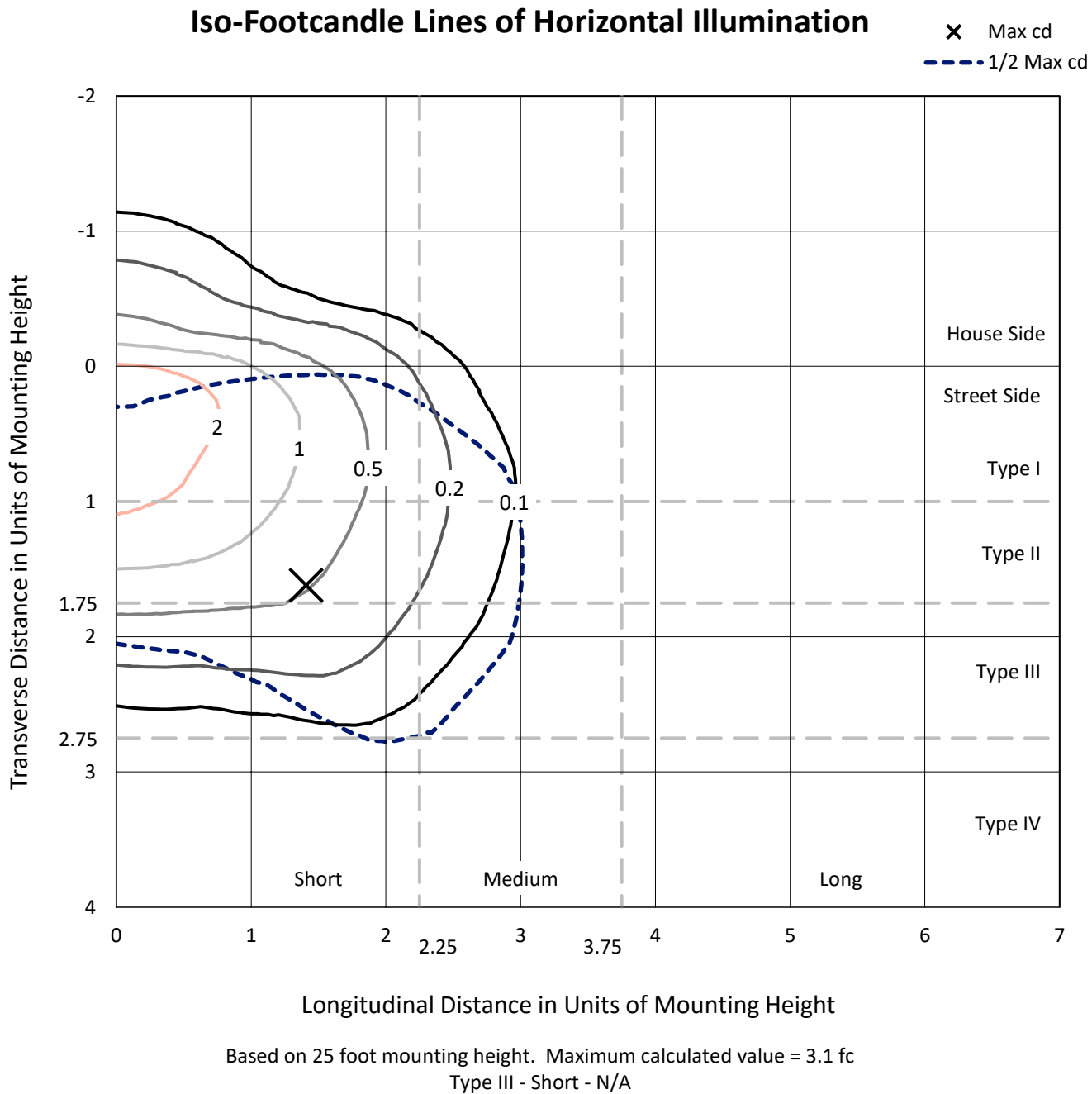
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7767 lumens
Efficiency: N/A
Efficacy: 105.2 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): 73.8
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

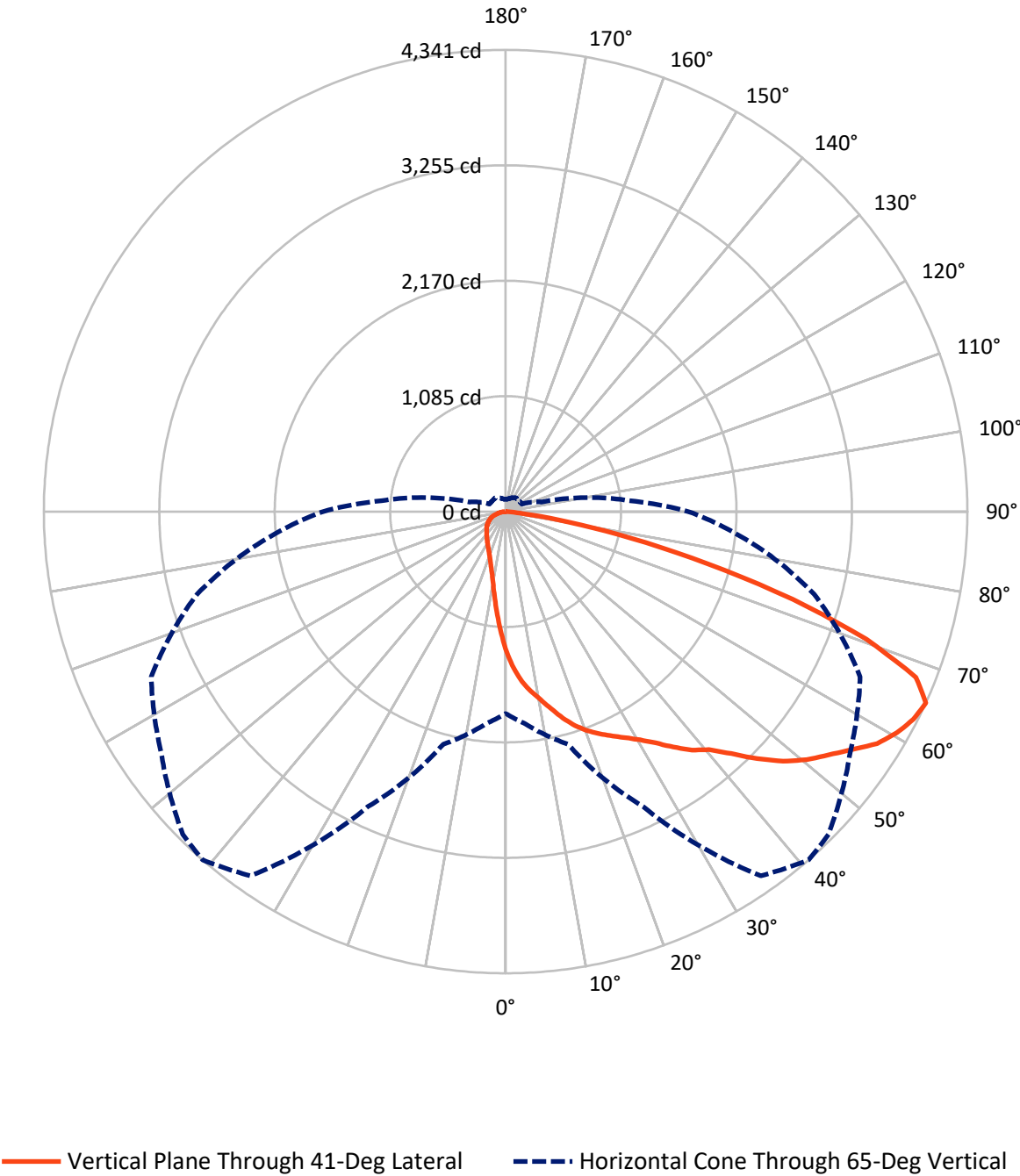


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Luminous Intensity Polar Plot



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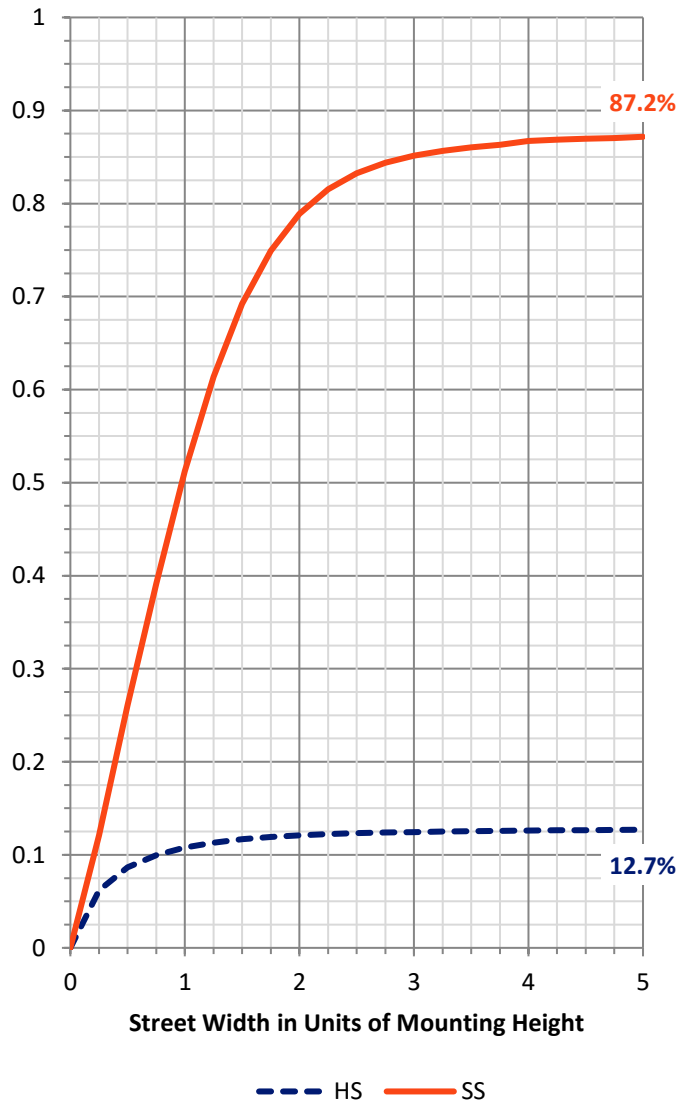
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	997.2	0.0	997.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	6769.8	0.0	6769.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	7767.0	0.0	7767.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	1.6
10°-20°	369.8	4.8
20°-30°	636.1	8.2
30°-40°	964.8	12.4
40°-50°	1413.4	18.2
50°-60°	1784.8	23.0
60°-70°	1673.6	21.5
70°-80°	745.9	9.6
80°-90°	55.3	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°	7767.0	100.0
0°-180°	7767.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842591

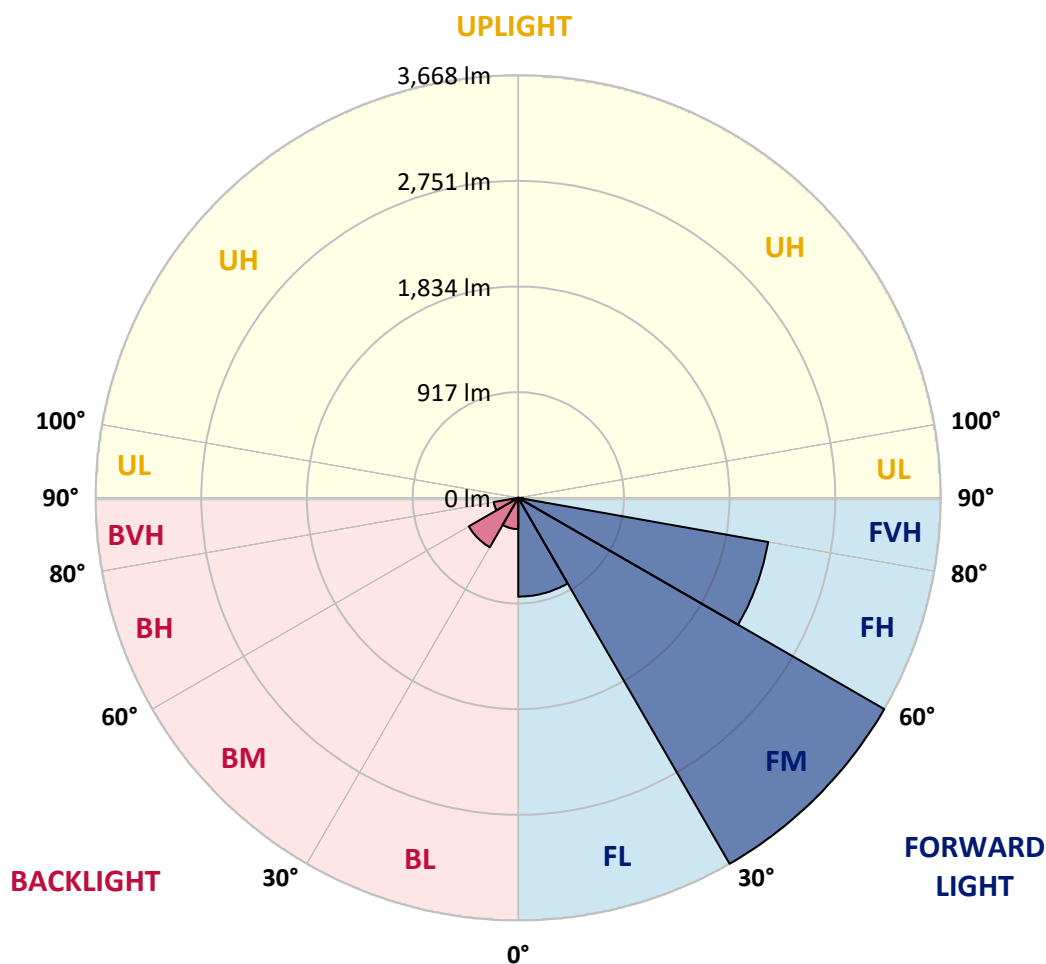
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	857.8	11.0			
FM	(30°-60°)	3667.9	47.2			
FH	(60°-80°)	2202.9	28.4			G2/5000
FVH	(80°-90°)	41.3	0.5			G1/100
BL	(0°-30°)	271.4	3.5	B1/500		
BM	(30°-60°)	495.1	6.4	B1/1000		
BH	(60°-80°)	216.6	2.8	B1/500		G1/500
BVH	(80°-90°)	14.0	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: P842591

CATALOG NUMBER: ARCH4-70-722-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5
2.5°	1526.6	1521.6	1518.4	1500.4	1500.4	1475.8	1477.4	1454.5	1426.6	1382.4	1334.9
5°	1670.7	1664.1	1656.0	1637.9	1631.4	1606.8	1603.5	1570.8	1523.3	1446.3	1361.1
7.5°	1796.8	1790.3	1778.8	1752.6	1734.6	1705.1	1696.9	1654.3	1601.9	1506.9	1387.3
10°	1911.5	1906.6	1891.8	1859.1	1834.5	1798.5	1783.7	1726.4	1660.9	1556.0	1408.6
12.5°	2027.8	2021.2	2001.6	1973.7	1944.2	1901.6	1883.6	1809.9	1726.4	1610.1	1439.7
15°	2135.9	2126.0	2111.3	2081.8	2055.6	2014.7	1995.0	1908.2	1806.6	1670.7	1480.7
17.5°	2206.3	2198.1	2185.0	2168.6	2147.3	2116.2	2096.6	2011.4	1886.9	1729.7	1523.3
20°	2248.9	2245.6	2240.7	2230.9	2221.0	2199.8	2185.0	2104.8	1973.7	1787.0	1564.2
22.5°	2281.7	2278.4	2276.7	2276.7	2278.4	2270.2	2260.4	2191.6	2057.3	1847.6	1601.9
25°	2332.4	2330.8	2327.5	2324.2	2335.7	2337.3	2334.1	2286.6	2162.1	1927.9	1649.4
27.5°	2402.9	2397.9	2391.4	2388.1	2399.6	2407.8	2414.3	2381.6	2273.5	2009.8	1703.5
30°	2511.0	2496.2	2479.8	2468.4	2476.6	2489.7	2504.4	2484.8	2388.1	2111.3	1759.1
32.5°	2638.7	2620.7	2583.0	2561.7	2583.0	2592.9	2604.3	2594.5	2507.7	2221.0	1814.8
35°	2794.3	2773.0	2733.7	2702.6	2740.3	2719.0	2714.1	2704.2	2620.7	2329.2	1877.1
37.5°	3053.1	3022.0	2959.8	2891.0	2891.0	2845.1	2827.1	2797.6	2722.3	2425.8	1937.7
40°	3352.9	3311.9	3231.7	3130.1	3036.7	2941.7	2930.3	2909.0	2841.8	2537.2	2006.5
42.5°	3682.1	3603.5	3492.1	3369.2	3218.6	3110.4	3084.2	3023.6	2958.1	2650.2	2075.3
45°	4047.4	3883.6	3721.4	3659.2	3410.2	3311.9	3262.8	3153.0	3079.3	2768.1	2147.3
47.5°	4106.3	3978.6	3870.5	3860.6	3588.7	3506.8	3451.1	3293.9	3210.4	2894.2	2222.7
50°	4073.6	3996.6	4008.0	3968.7	3719.8	3665.7	3623.1	3444.6	3339.8	3015.4	2291.5
52.5°	3936.0	3978.6	4044.1	3972.0	3844.2	3800.0	3778.7	3606.7	3461.0	3126.8	2353.7
55°	3772.2	3801.7	3942.5	4031.0	3988.4	3949.1	3929.4	3795.1	3580.5	3220.2	2411.0
57.5°	3533.0	3519.9	3675.5	4021.1	4139.1	4116.1	4094.9	3980.2	3691.9	3287.3	2447.1
60°	3174.3	3146.5	3343.0	3824.6	4188.2	4224.2	4214.4	4103.0	3777.1	3285.7	2432.3
62.5°	2553.5	2622.3	2894.2	3503.6	4209.5	4301.2	4283.2	4112.9	3804.9	3190.7	2339.0
65°	1898.4	1996.6	2263.6	3061.3	4180.0	4340.5	4291.4	3952.4	3675.5	3002.3	2134.2
67.5°	1367.7	1454.5	1649.4	2519.2	3896.7	4160.4	4103.0	3690.3	3377.4	2735.4	1850.9
70°	935.3	997.5	1130.2	1834.5	3326.7	3596.9	3560.9	3298.8	2907.3	2417.6	1503.6
72.5°	660.1	686.3	771.5	1210.4	2527.3	2822.2	2779.6	2714.1	2335.7	2009.8	1169.5
75°	494.7	511.0	556.9	782.9	1705.1	1955.7	1916.4	1954.1	1744.4	1521.6	851.7
77.5°	186.7	203.1	316.1	499.6	1009.0	1200.6	1161.3	1184.2	969.7	768.2	424.2
80°	50.8	54.1	104.8	237.5	458.6	597.8	543.8	466.8	360.3	353.8	224.4
82.5°	21.3	24.6	47.5	127.8	163.8	163.8	137.6	170.3	137.6	165.4	108.1
85°	8.2	9.8	11.5	32.8	21.3	22.9	24.6	32.8	27.8	34.4	24.6
87.5°	0.0	0.0	0.0	1.6	1.6	3.3	1.6	3.3	4.9	4.9	4.9
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: P842591

CATALOG NUMBER: ARCH4-70-722-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5
2.5°	1315.3	1297.2	1271.0	1228.5	1184.2	1159.7	1128.5	1123.6	1090.9	1087.6	1074.5
5°	1323.5	1285.8	1218.6	1136.7	1056.5	994.2	948.4	923.8	876.3	876.3	863.2
7.5°	1330.0	1271.0	1162.9	1041.7	932.0	848.5	786.2	760.0	717.4	714.1	704.3
10°	1331.6	1253.0	1102.3	945.1	810.8	725.6	665.0	635.5	597.8	594.6	588.0
12.5°	1344.7	1243.2	1048.3	861.6	724.0	632.2	573.3	548.7	519.2	516.0	509.4
15°	1366.0	1243.2	1002.4	791.1	647.0	561.8	511.0	488.1	466.8	463.5	460.3
17.5°	1387.3	1239.9	956.6	725.6	583.1	506.1	461.9	443.9	427.5	425.9	422.6
20°	1407.0	1238.3	910.7	669.9	534.0	460.3	425.9	409.5	396.4	396.4	394.7
22.5°	1426.6	1235.0	866.5	617.5	491.4	425.9	396.4	378.4	368.5	368.5	366.9
25°	1456.1	1235.0	825.5	573.3	457.0	399.7	370.2	357.1	348.9	347.2	347.2
27.5°	1490.5	1244.8	789.5	534.0	427.5	373.5	350.5	337.4	327.6	324.3	326.0
30°	1528.2	1253.0	756.7	499.6	399.7	353.8	329.2	316.1	306.3	303.0	304.7
32.5°	1565.9	1262.9	727.2	468.5	371.8	335.8	311.2	296.5	286.6	285.0	285.0
35°	1606.8	1272.7	697.8	442.2	348.9	317.8	294.8	278.4	271.9	268.6	270.3
37.5°	1647.8	1289.1	669.9	417.7	332.5	301.4	280.1	263.7	258.8	257.2	257.2
40°	1696.9	1313.6	658.5	401.3	317.8	286.6	268.6	252.2	247.3	247.3	247.3
42.5°	1737.9	1333.3	648.6	383.3	306.3	273.5	257.2	244.1	240.8	239.1	240.8
45°	1778.8	1351.3	635.5	366.9	291.6	260.4	247.3	234.2	230.9	230.9	230.9
47.5°	1819.8	1361.1	617.5	350.5	278.4	249.0	237.5	226.0	222.8	222.8	222.8
50°	1852.5	1369.3	591.3	332.5	263.7	239.1	227.7	216.2	212.9	212.9	212.9
52.5°	1885.3	1371.0	563.5	311.2	249.0	227.7	217.8	206.4	203.1	201.5	201.5
55°	1914.8	1369.3	530.7	286.6	232.6	214.6	206.4	196.6	190.0	183.4	186.7
57.5°	1936.0	1367.7	493.0	262.1	216.2	201.5	198.2	185.1	172.0	155.6	158.9
60°	1927.9	1349.7	452.1	230.9	198.2	188.4	188.4	170.3	147.4	139.2	140.9
62.5°	1875.4	1298.9	409.5	198.2	180.2	175.3	173.6	154.0	135.9	127.8	129.4
65°	1718.2	1171.1	347.2	168.7	162.2	160.5	160.5	142.5	126.1	116.3	117.9
67.5°	1479.1	982.8	283.4	142.5	144.1	147.4	147.4	131.0	114.7	104.8	106.5
70°	1185.9	768.2	226.0	122.8	124.5	129.4	132.7	117.9	103.2	93.4	93.4
72.5°	892.7	583.1	181.8	103.2	111.4	111.4	116.3	104.8	90.1	80.3	81.9
75°	647.0	417.7	144.1	86.8	96.6	95.0	95.0	88.4	77.0	70.4	70.4
77.5°	306.3	219.5	114.7	62.2	75.3	73.7	75.3	70.4	65.5	59.0	60.6
80°	150.7	108.1	73.7	44.2	52.4	54.1	59.0	55.7	54.1	49.1	49.1
82.5°	72.1	42.6	34.4	31.1	36.0	37.7	40.9	40.9	42.6	39.3	39.3
85°	19.7	11.5	14.7	19.7	22.9	24.6	27.8	29.5	29.5	27.8	29.5
87.5°	4.9	4.9	6.6	9.8	11.5	13.1	14.7	14.7	6.6	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)