

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: P835914

Luminaire Tested: **ARCH3-110-740-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-740-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12301 lumens
Efficiency: N/A
Efficacy: 109.9 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): 111.9
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



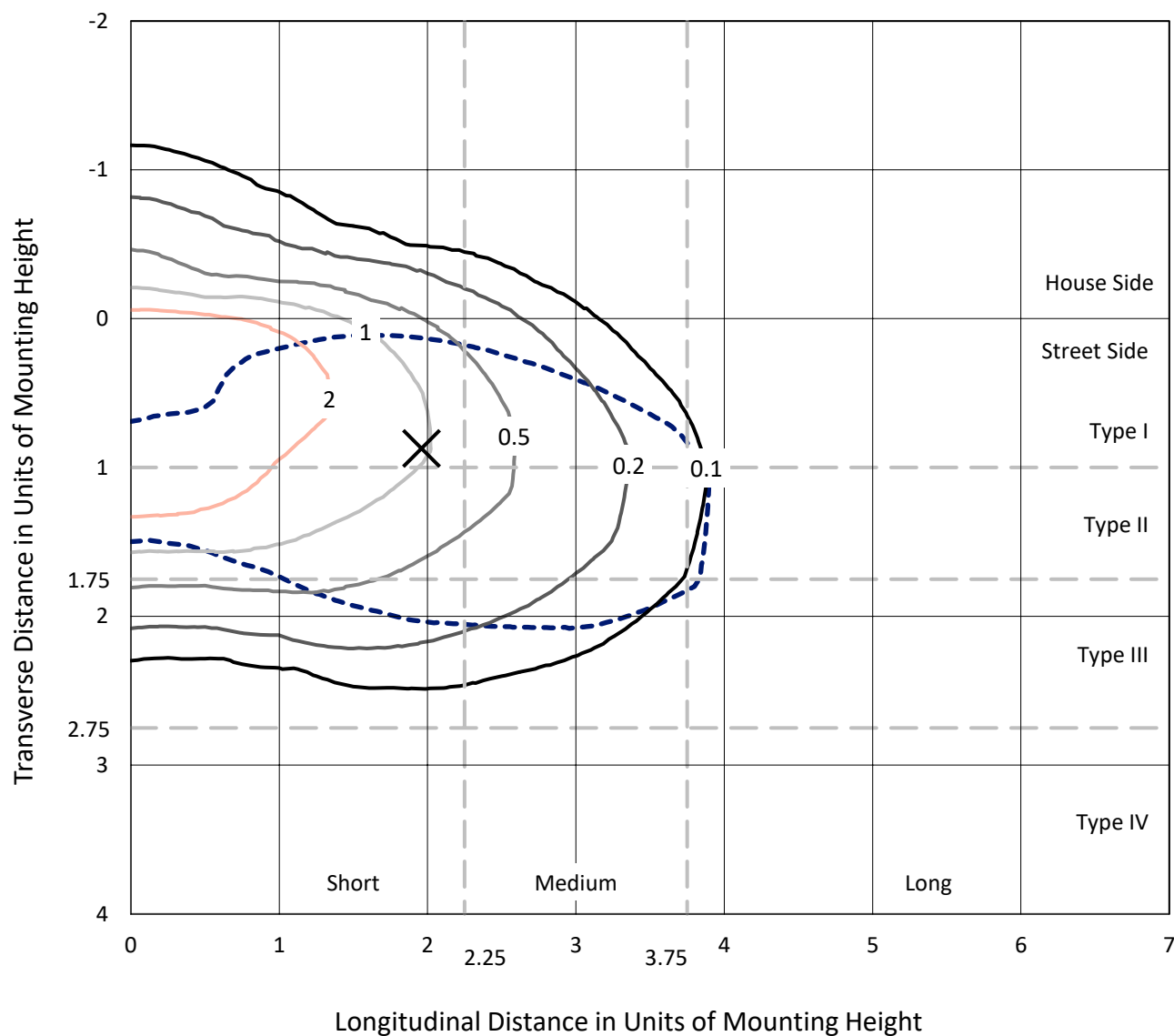
REPORT NUMBER: P835914

CATALOG NUMBER: ARCH3-110-740-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

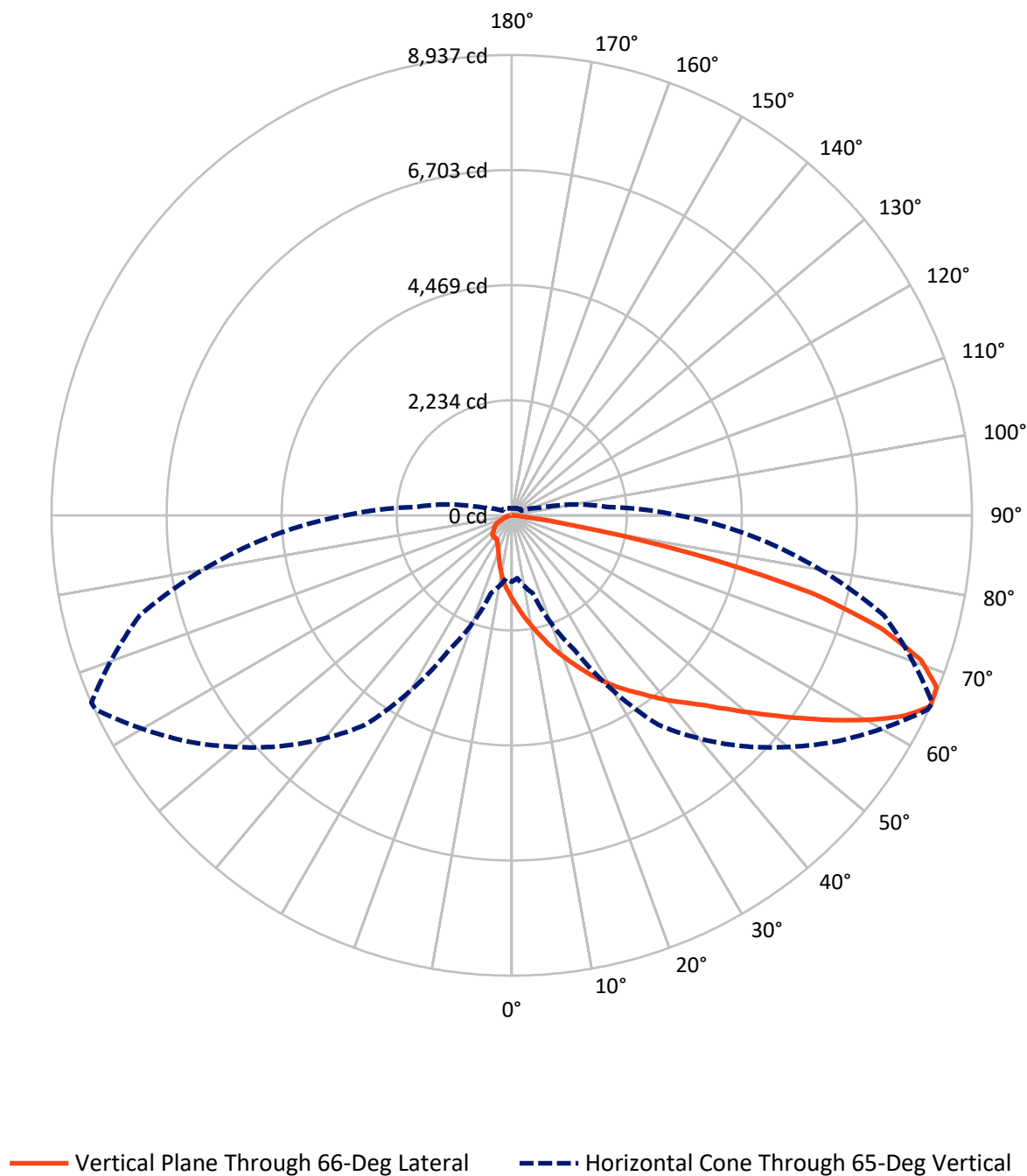


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc

Type III - Short - N/A

REPORT NUMBER: P835914
CATALOG NUMBER: ARCH3-110-740-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P835914

CATALOG NUMBER: ARCH3-110-740-U-T3-HSS

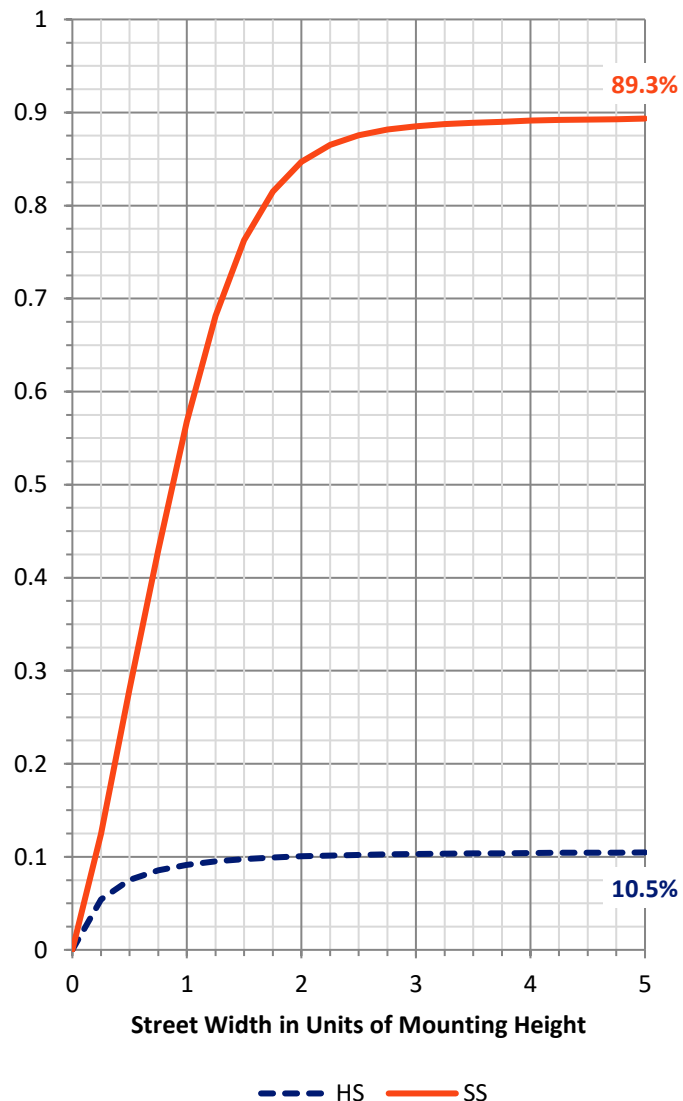
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1301.1	0.0	1301.1
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	10999.9	0.0	10999.9
	% Fixture	89.4	0.0	89.4
Total	Lumens	12301.0	0.0	12301.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.7	1.3
10°-20°	523.7	4.3
20°-30°	947.5	7.7
30°-40°	1481.7	12.0
40°-50°	2247.7	18.3
50°-60°	2855.8	23.2
60°-70°	2668.5	21.7
70°-80°	1326.2	10.8
80°-90°	89.1	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°	12301.0	100.0
0°-180°	12301.0	100.0

Coefficient of Utilization



REPORT NUMBER: P835914

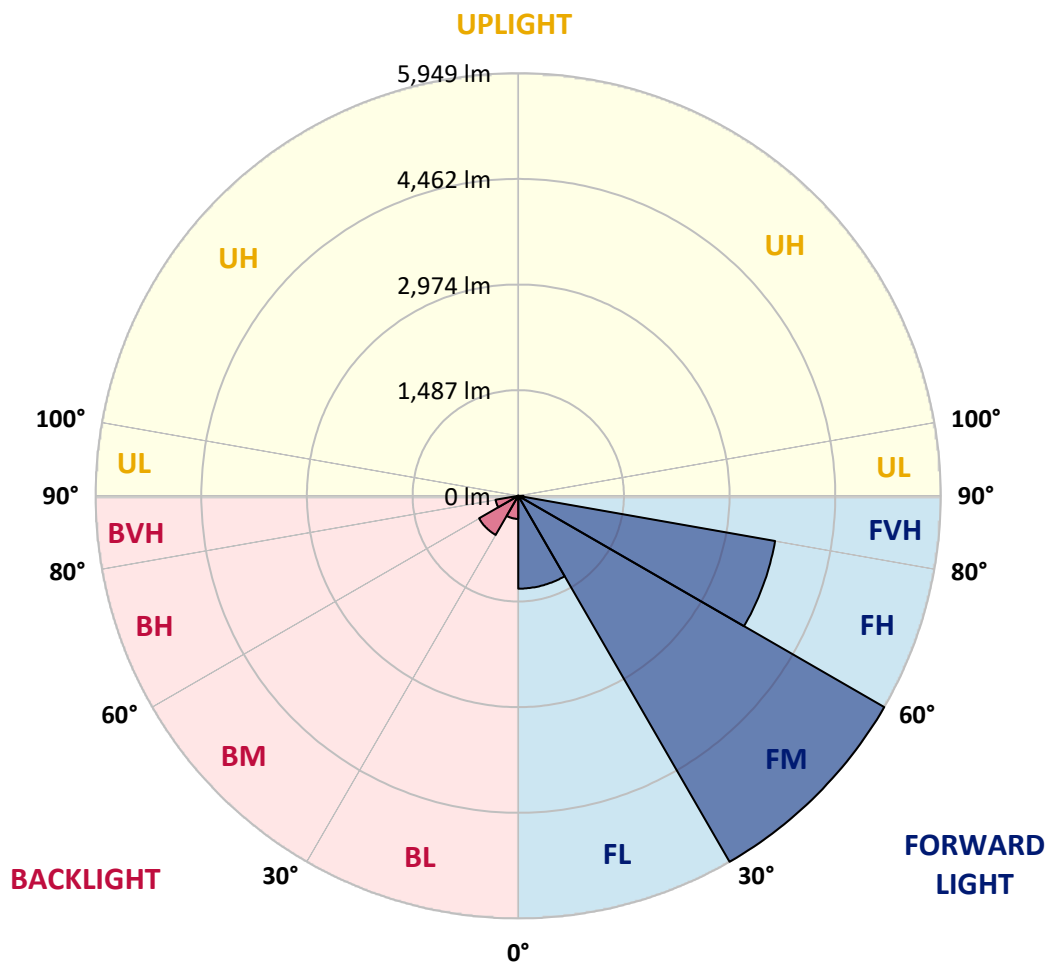
CATALOG NUMBER: ARCH3-110-740-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1307.0	10.6			
FM	(30°-60°)	5948.9	48.4			
FH	(60°-80°)	3670.7	29.8			G2/5000
FVH	(80°-90°)	73.3	0.6			G1/100
BL	(0°-30°)	324.9	2.6	B1/500		
BM	(30°-60°)	636.4	5.2	B1/1000		
BH	(60°-80°)	324.0	2.6	B1/500		G1/500
BVH	(80°-90°)	15.8	0.1			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: P835914

CATALOG NUMBER: ARCH3-110-740-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1628.0	1628.0	1628.0	1628.0	1628.0	1628.0	1628.0	1628.0	1628.0	1628.0	1628.0
2.5°	1901.4	1916.9	1924.7	1927.2	1867.9	1842.1	1816.3	1757.0	1744.1	1710.5	1666.7
5°	2236.8	2257.5	2252.3	2242.0	2169.8	2087.2	2020.1	1909.2	1891.1	1811.1	1713.1
7.5°	2567.1	2585.1	2580.0	2541.3	2461.3	2345.2	2234.3	2071.7	2045.9	1916.9	1759.5
10°	2843.1	2858.6	2856.0	2817.3	2721.9	2580.0	2445.8	2229.1	2198.1	2015.0	1798.2
12.5°	3070.2	3090.8	3088.2	3062.4	2977.3	2822.5	2670.3	2409.7	2371.0	2133.6	1852.4
15°	3248.2	3274.0	3274.0	3263.7	3204.3	3075.3	2902.5	2608.4	2561.9	2270.4	1919.5
17.5°	3356.6	3377.2	3395.3	3413.3	3372.0	3274.0	3116.6	2807.0	2758.0	2404.5	1989.2
20°	3413.3	3434.0	3446.9	3485.6	3493.3	3444.3	3320.4	3003.1	2951.5	2556.8	2069.1
22.5°	3506.2	3524.3	3526.8	3560.4	3575.9	3588.8	3511.4	3196.6	3155.3	2724.5	2159.4
25°	3661.0	3681.6	3673.9	3689.4	3692.0	3707.4	3699.7	3418.5	3377.2	2915.4	2267.8
27.5°	3859.7	3885.5	3880.3	3864.8	3841.6	3828.7	3862.2	3642.9	3604.2	3106.3	2378.7
30°	4073.8	4104.8	4097.0	4066.1	4004.1	3950.0	3996.4	3854.5	3818.4	3302.4	2502.6
32.5°	4290.5	4326.6	4324.1	4272.5	4166.7	4073.8	4143.5	4053.2	4027.4	3513.9	2636.7
35°	4432.4	4478.9	4473.7	4442.7	4306.0	4226.0	4311.2	4257.0	4238.9	3771.9	2830.2
37.5°	4662.0	4711.1	4667.2	4589.8	4432.4	4391.1	4494.3	4486.6	4473.7	4045.4	3034.1
40°	5219.3	5291.5	5175.4	4858.1	4600.1	4564.0	4711.1	4742.0	4729.1	4316.3	3217.2
42.5°	5802.4	5910.7	5730.1	5291.5	4904.5	4773.0	4948.4	4992.3	4976.8	4548.5	3382.4
45°	6155.8	6202.3	6021.7	5681.1	5443.8	5025.8	5201.2	5273.5	5260.6	4827.1	3593.9
47.5°	6444.8	6426.7	6220.3	5990.7	6034.6	5381.8	5487.6	5629.5	5619.2	5134.2	3826.1
50°	6506.7	6465.4	6382.9	6238.4	6354.5	5743.0	5789.5	6034.6	6024.3	5474.7	4060.9
52.5°	6070.7	6016.5	6241.0	6362.2	6323.5	6006.2	6122.3	6478.3	6473.2	5843.7	4285.4
55°	4981.9	4938.1	5541.8	6168.7	6290.0	6192.0	6491.2	6940.2	6968.5	6235.8	4489.2
57.5°	3919.0	3872.6	4466.0	5683.7	6166.2	6362.2	6922.1	7469.1	7505.2	6661.5	4682.7
60°	3124.4	3054.7	3508.8	4920.0	5934.0	6493.8	7337.5	8049.5	8054.7	7051.1	4801.4
62.5°	2123.3	2045.9	2549.0	3952.5	5544.4	6514.5	7657.4	8550.1	8570.7	7342.6	4822.0
65°	1290.0	1225.5	1566.1	2887.0	4969.0	6339.0	7662.6	8919.0	8937.1	7476.8	4698.2
67.5°	748.2	722.4	895.3	1798.2	4014.5	5866.9	7340.1	8862.2	8895.8	7420.0	4416.9
70°	436.0	433.4	497.9	890.1	2832.8	4930.3	6620.2	8384.9	8434.0	7123.3	3986.1
72.5°	319.9	325.1	350.9	477.3	1640.9	3550.1	5606.3	7425.2	7500.0	6542.8	3372.0
75°	252.8	255.4	278.6	325.1	861.7	2007.2	4200.2	5959.8	6019.1	5508.3	2634.2
77.5°	188.3	193.5	211.6	229.6	399.9	921.1	2363.3	3671.3	3573.3	3023.7	1271.9
80°	136.7	149.6	157.4	165.1	211.6	356.0	709.5	1279.7	1269.4	1321.0	601.1
82.5°	87.7	98.0	105.8	110.9	126.4	170.3	211.6	286.4	309.6	513.4	239.9
85°	38.7	43.9	49.0	59.3	54.2	59.3	87.7	56.8	49.0	77.4	43.9
87.5°	0.0	0.0	7.7	12.9	10.3	5.2	15.5	10.3	7.7	7.7	7.7
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: P835914

CATALOG NUMBER: ARCH3-110-740-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1628.0	1628.0	1628.0	1628.0	1628.0	1628.0	1628.0	1628.0	1628.0	1628.0	1628.0
2.5°	1643.4	1615.1	1555.7	1499.0	1465.4	1421.6	1382.9	1346.8	1344.2	1333.9	1315.8
5°	1664.1	1609.9	1499.0	1393.2	1313.2	1228.1	1155.8	1099.1	1078.4	1063.0	1042.3
7.5°	1684.7	1599.6	1434.5	1279.7	1153.3	1034.6	949.4	872.0	848.8	828.2	815.3
10°	1692.5	1581.5	1359.7	1153.3	988.1	861.7	771.4	714.7	694.0	683.7	676.0
12.5°	1715.7	1571.2	1290.0	1034.6	843.7	727.6	663.1	629.5	621.8	614.0	606.3
15°	1746.6	1571.2	1220.3	918.5	730.1	637.3	598.6	575.3	570.2	567.6	562.4
17.5°	1780.2	1571.2	1153.3	820.4	647.6	577.9	549.5	536.6	534.1	531.5	528.9
20°	1826.6	1573.8	1081.0	735.3	588.2	534.1	510.8	495.4	492.8	490.2	490.2
22.5°	1873.1	1579.0	1011.4	670.8	549.5	500.5	472.1	456.7	451.5	451.5	451.5
25°	1932.4	1594.4	946.9	616.6	516.0	469.6	433.4	420.5	418.0	418.0	415.4
27.5°	2002.1	1612.5	890.1	575.3	482.5	433.4	397.3	384.4	379.3	379.3	376.7
30°	2076.9	1630.5	843.7	544.4	448.9	397.3	363.8	348.3	343.1	345.7	343.1
32.5°	2159.4	1656.3	807.5	523.7	418.0	366.4	335.4	317.3	314.8	314.8	312.2
35°	2298.8	1728.6	802.4	513.4	392.2	343.1	312.2	294.1	291.5	291.5	289.0
37.5°	2448.4	1811.1	825.6	508.3	371.5	322.5	294.1	276.1	273.5	273.5	273.5
40°	2574.8	1873.1	851.4	508.3	358.6	304.4	278.6	263.2	263.2	263.2	263.2
42.5°	2660.0	1878.2	846.2	508.3	348.3	291.5	268.3	252.8	252.8	255.4	252.8
45°	2786.4	1904.0	825.6	500.5	340.6	281.2	258.0	245.1	242.5	245.1	245.1
47.5°	2936.0	1950.5	805.0	469.6	338.0	270.9	250.3	234.8	232.2	234.8	232.2
50°	3077.9	1991.7	794.6	428.3	332.8	260.6	239.9	224.5	221.9	224.5	221.9
52.5°	3196.6	2009.8	776.6	399.9	319.9	250.3	229.6	214.1	209.0	211.6	211.6
55°	3292.1	2004.6	750.8	376.7	296.7	239.9	216.7	203.8	196.1	196.1	193.5
57.5°	3379.8	2007.2	727.6	353.5	270.9	224.5	206.4	190.9	180.6	178.0	175.4
60°	3413.3	1994.3	686.3	322.5	245.1	211.6	193.5	175.4	165.1	162.5	160.0
62.5°	3366.9	1947.9	632.1	268.3	221.9	196.1	180.6	162.5	152.2	149.6	147.1
65°	3235.3	1860.2	549.5	211.6	201.2	178.0	165.1	152.2	139.3	134.2	131.6
67.5°	3010.8	1733.7	446.3	170.3	178.0	162.5	154.8	139.3	123.8	118.7	116.1
70°	2690.9	1566.1	335.4	144.5	157.4	144.5	139.3	123.8	110.9	105.8	103.2
72.5°	2242.0	1295.2	234.8	123.8	136.7	126.4	121.3	110.9	98.0	90.3	90.3
75°	1695.0	928.8	154.8	105.8	113.5	108.4	100.6	92.9	85.1	80.0	77.4
77.5°	730.1	361.2	95.5	80.0	92.9	90.3	80.0	74.8	72.2	67.1	67.1
80°	314.8	147.1	59.3	59.3	67.1	64.5	61.9	56.8	56.8	54.2	51.6
82.5°	116.1	59.3	36.1	43.9	49.0	43.9	43.9	43.9	43.9	41.3	41.3
85°	28.4	18.1	18.1	25.8	28.4	25.8	28.4	25.8	25.8	25.8	23.2
87.5°	7.7	7.7	10.3	10.3	10.3	10.3	10.3	7.7	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)