

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: P835995

Luminaire Tested: **ARCH3-120-750-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835995
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: ARCH3-120-750-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13262 lumens
Efficiency: N/A
Efficacy: 108.1 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): 122.7
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

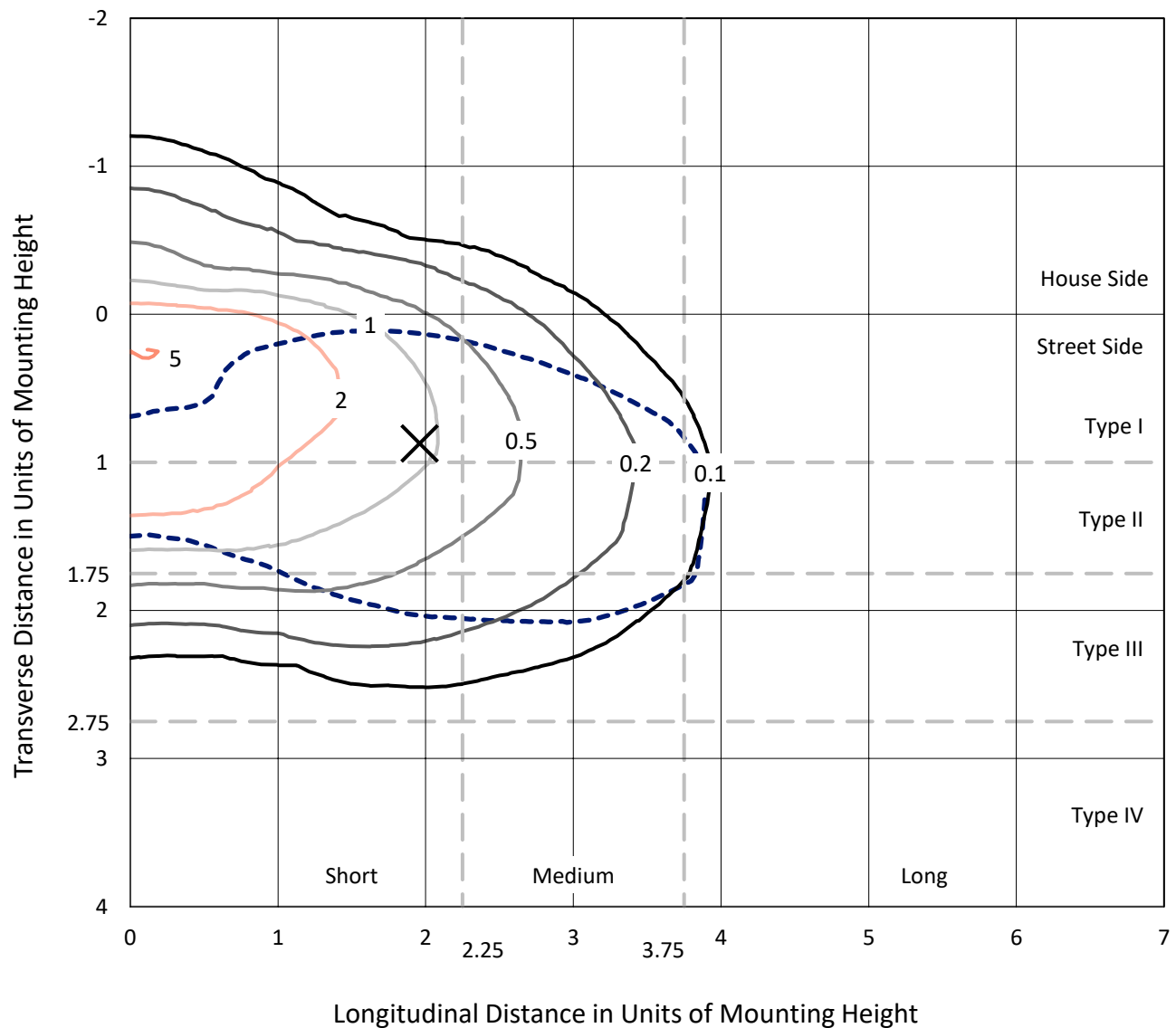


REPORT NUMBER: P835995

CATALOG NUMBER: ARCH3-120-750-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

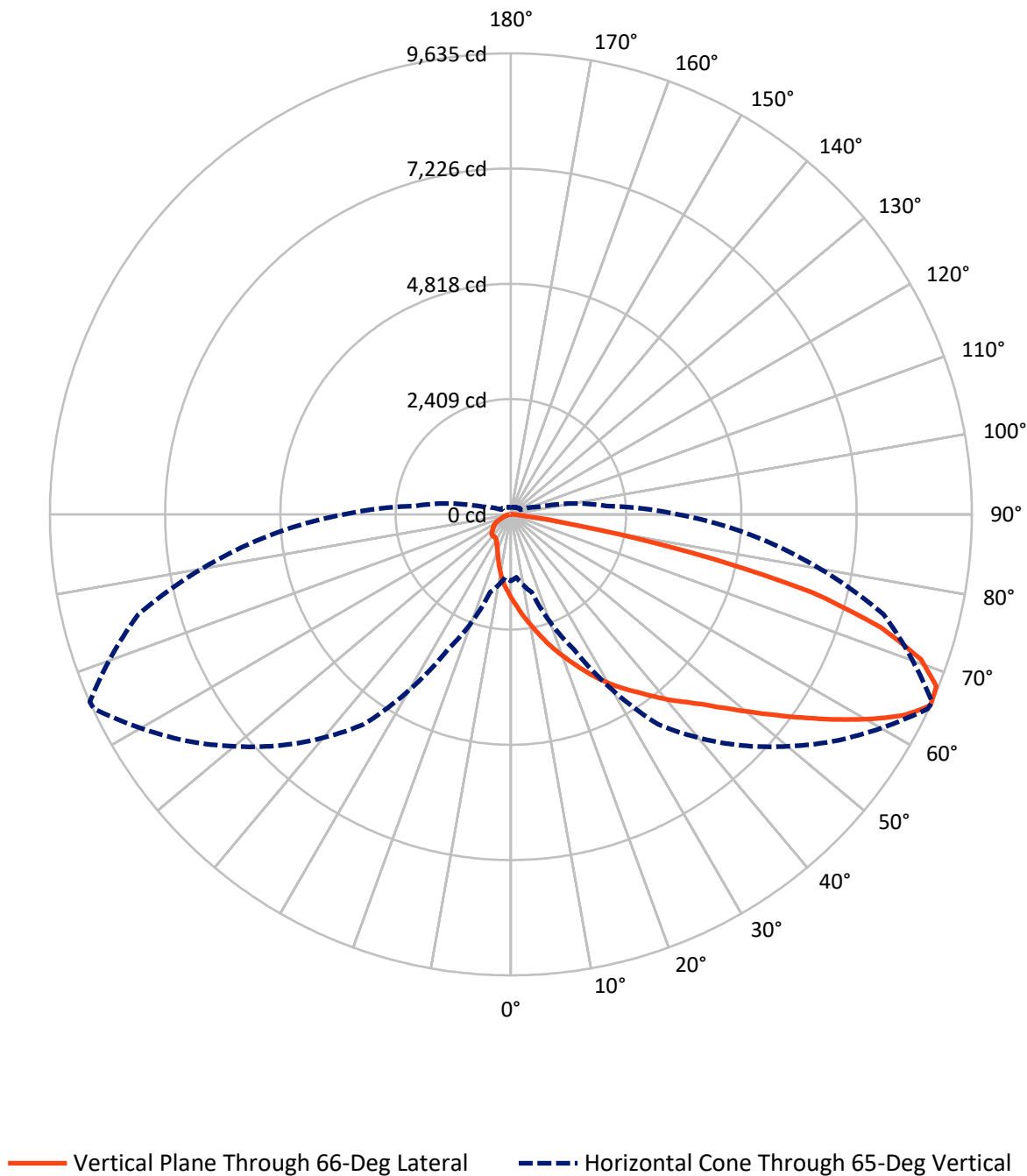
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type III - Short - N/A

REPORT NUMBER: P835995
CATALOG NUMBER: ARCH3-120-750-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P835995

CATALOG NUMBER: ARCH3-120-750-U-T3-HSS

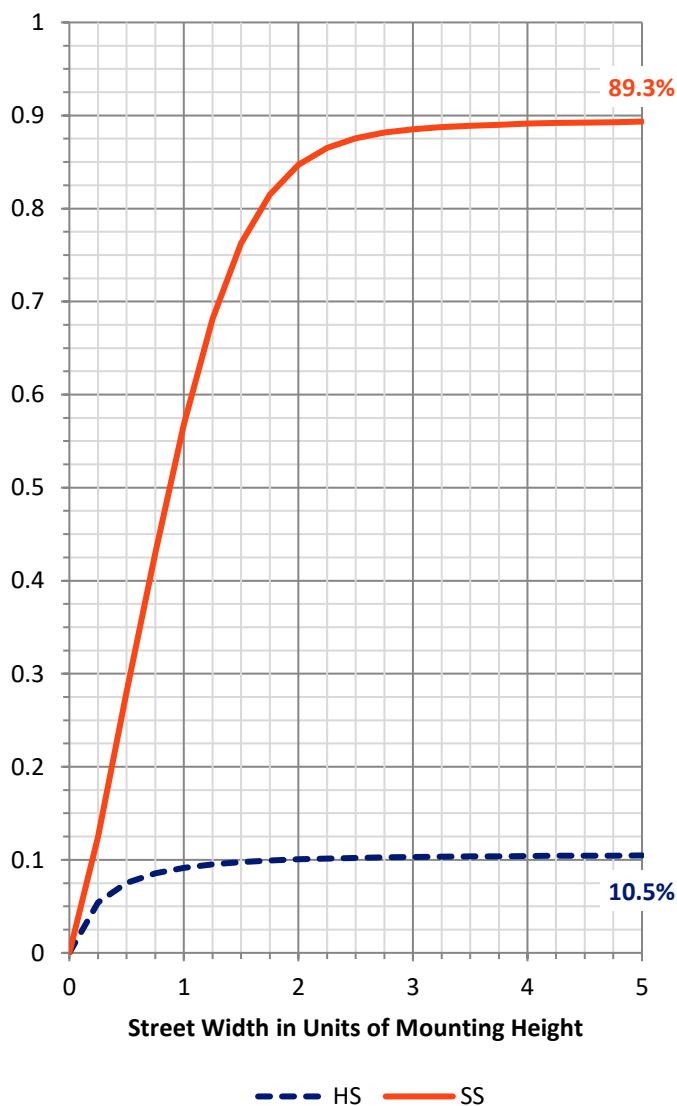
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1402.8	0.0	1402.8
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	11859.2	0.0	11859.2
	% Fixture	89.4	0.0	89.4
Total	Lumens	13262.0	0.0	13262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.2	1.3
10°-20°	564.6	4.3
20°-30°	1021.6	7.7
30°-40°	1597.5	12.0
40°-50°	2423.3	18.3
50°-60°	3078.9	23.2
60°-70°	2876.9	21.7
70°-80°	1429.8	10.8
80°-90°	96.1	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°	13262.0	100.0
0°-180°	13262.0	100.0

Coefficient of Utilization



REPORT NUMBER: P835995

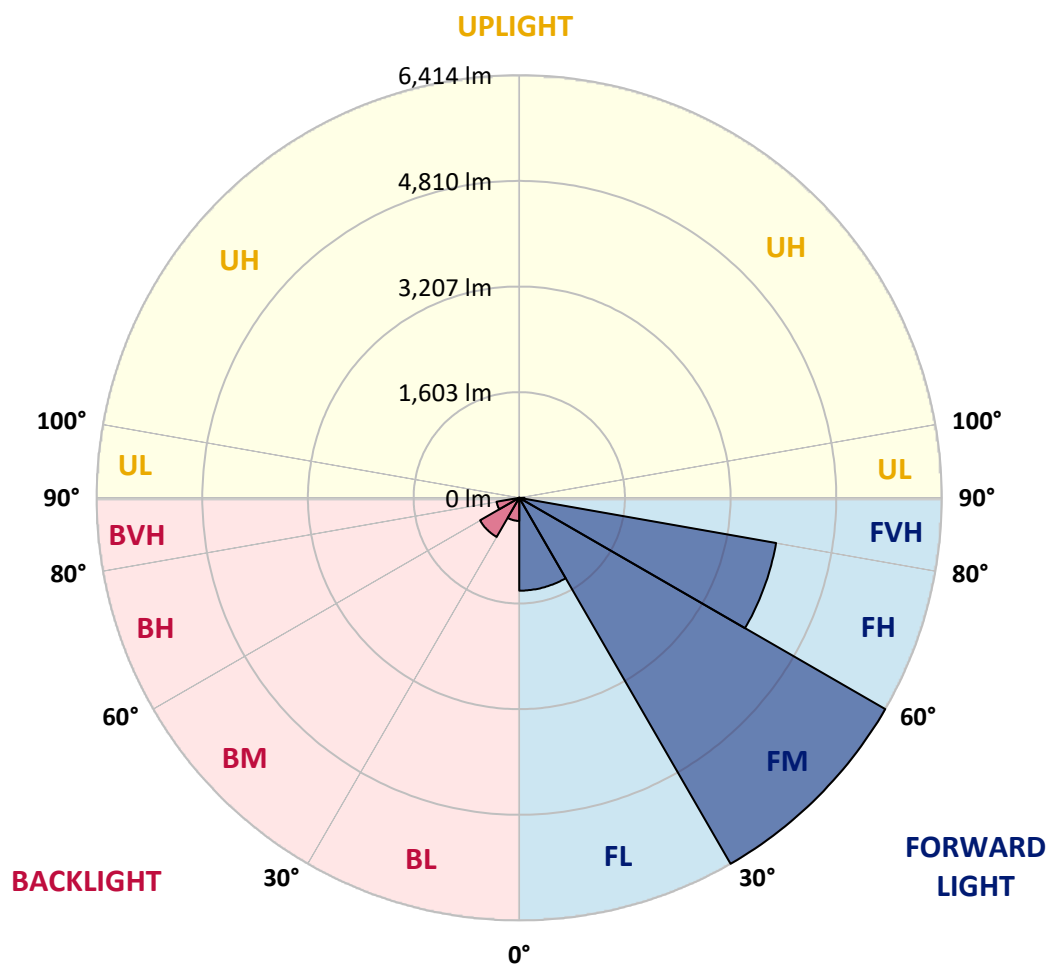
CATALOG NUMBER: ARCH3-120-750-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1409.1	10.6			
FM	(30°-60°)	6413.7	48.4			
FH	(60°-80°)	3957.4	29.8			G2/5000
FVH	(80°-90°)	79.1	0.6			G1/100
BL	(0°-30°)	350.3	2.6	B1/500		
BM	(30°-60°)	686.1	5.2	B1/1000		
BH	(60°-80°)	349.3	2.6	B1/500		G1/500
BVH	(80°-90°)	17.0	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: P835995

CATALOG NUMBER: ARCH3-120-750-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1755.2	1755.2	1755.2	1755.2	1755.2	1755.2	1755.2	1755.2	1755.2	1755.2	1755.2
2.5°	2050.0	2066.7	2075.0	2077.8	2013.8	1986.0	1958.2	1894.2	1880.3	1844.2	1796.9
5°	2411.6	2433.8	2428.3	2417.2	2339.3	2250.3	2177.9	2058.3	2038.9	1952.6	1846.9
7.5°	2767.6	2787.1	2781.5	2739.8	2653.6	2528.4	2408.8	2233.6	2205.8	2066.7	1897.0
10°	3065.3	3081.9	3079.2	3037.4	2934.5	2781.5	2636.9	2403.3	2369.9	2172.4	1938.7
12.5°	3310.0	3332.3	3329.5	3301.7	3209.9	3043.0	2878.9	2598.0	2556.2	2300.3	1997.1
15°	3502.0	3529.8	3529.8	3518.7	3454.7	3315.6	3129.2	2812.1	2762.1	2447.8	2069.5
17.5°	3618.8	3641.0	3660.5	3680.0	3635.5	3529.8	3360.1	3026.3	2973.5	2592.4	2144.6
20°	3680.0	3702.2	3716.1	3757.9	3766.2	3713.4	3579.8	3237.7	3182.1	2756.5	2230.8
22.5°	3780.1	3799.6	3802.4	3838.5	3855.2	3869.1	3785.7	3446.3	3401.8	2937.3	2328.2
25°	3947.0	3969.3	3960.9	3977.6	3980.4	3997.1	3988.7	3685.5	3641.0	3143.1	2445.0
27.5°	4161.2	4189.0	4183.4	4166.7	4141.7	4127.8	4164.0	3927.5	3885.8	3349.0	2564.6
30°	4392.1	4425.4	4417.1	4383.7	4317.0	4258.5	4308.6	4155.6	4116.7	3560.4	2698.1
32.5°	4625.7	4664.6	4661.9	4606.2	4492.2	4392.1	4467.2	4369.8	4342.0	3788.5	2842.7
35°	4778.7	4828.8	4823.2	4789.8	4642.4	4556.2	4648.0	4589.5	4570.1	4066.6	3051.4
37.5°	5026.2	5079.1	5031.8	4948.4	4778.7	4734.2	4845.4	4837.1	4823.2	4361.5	3271.1
40°	5627.1	5704.9	5579.8	5237.6	4959.5	4920.5	5079.1	5112.5	5098.6	4653.5	3468.6
42.5°	6255.7	6372.5	6177.8	5704.9	5287.7	5145.9	5335.0	5382.3	5365.6	4903.9	3646.6
45°	6636.8	6686.8	6492.1	6125.0	5869.1	5418.4	5607.6	5685.5	5671.6	5204.3	3874.7
47.5°	6948.3	6928.8	6706.3	6458.7	6506.0	5802.3	5916.3	6069.3	6058.2	5535.3	4125.0
50°	7015.0	6970.5	6881.5	6725.8	6850.9	6191.7	6241.8	6506.0	6494.9	5902.4	4378.1
52.5°	6545.0	6486.6	6728.5	6859.3	6817.6	6475.4	6600.6	6984.5	6978.9	6300.2	4620.1
55°	5371.2	5323.9	5974.8	6650.7	6781.4	6675.7	6998.4	7482.3	7512.9	6723.0	4839.9
57.5°	4225.2	4175.1	4814.8	6127.7	6647.9	6859.3	7462.9	8052.6	8091.5	7181.9	5048.5
60°	3368.4	3293.3	3782.9	5304.4	6397.5	7001.1	7910.7	8678.4	8684.0	7602.0	5176.4
62.5°	2289.2	2205.8	2748.2	4261.3	5977.5	7023.4	8255.6	9218.0	9240.3	7916.3	5198.7
65°	1390.8	1321.2	1688.4	3112.5	5357.2	6834.2	8261.2	9615.8	9635.3	8060.9	5065.2
67.5°	806.6	778.8	965.2	1938.7	4328.1	6325.2	7913.5	9554.6	9590.8	7999.7	4762.0
70°	470.1	467.3	536.8	959.6	3054.1	5315.5	7137.4	9040.0	9092.9	7679.8	4297.5
72.5°	344.9	350.5	378.3	514.6	1769.1	3827.4	6044.3	8005.3	8085.9	7054.0	3635.5
75°	272.6	275.4	300.4	350.5	929.0	2164.0	4528.4	6425.4	6489.3	5938.6	2840.0
77.5°	203.1	208.6	228.1	247.6	431.1	993.0	2547.9	3958.1	3852.4	3260.0	1371.3
80°	147.4	161.3	169.7	178.0	228.1	383.9	764.9	1379.6	1368.5	1424.1	648.1
82.5°	94.6	105.7	114.0	119.6	136.3	183.6	228.1	308.8	333.8	553.5	258.7
85°	41.7	47.3	52.8	64.0	58.4	64.0	94.6	61.2	52.8	83.4	47.3
87.5°	0.0	0.0	8.3	13.9	11.1	5.6	16.7	11.1	8.3	8.3	8.3
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: P835995

CATALOG NUMBER: ARCH3-120-750-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1755.2	1755.2	1755.2	1755.2	1755.2	1755.2	1755.2	1755.2	1755.2	1755.2	1755.2
2.5°	1771.8	1741.2	1677.3	1616.1	1579.9	1532.6	1490.9	1452.0	1449.2	1438.1	1418.6
5°	1794.1	1735.7	1616.1	1502.0	1415.8	1324.0	1246.1	1184.9	1162.7	1146.0	1123.7
7.5°	1816.3	1724.6	1546.5	1379.6	1243.3	1115.4	1023.6	940.2	915.1	892.9	879.0
10°	1824.7	1705.1	1465.9	1243.3	1065.3	929.0	831.7	770.5	748.2	737.1	728.8
12.5°	1849.7	1694.0	1390.8	1115.4	909.6	784.4	714.9	678.7	670.4	662.0	653.7
15°	1883.1	1694.0	1315.7	990.2	787.2	687.0	645.3	620.3	614.7	611.9	606.4
17.5°	1919.3	1694.0	1243.3	884.5	698.2	623.1	592.5	578.6	575.8	573.0	570.2
20°	1969.3	1696.7	1165.5	792.7	634.2	575.8	550.7	534.1	531.3	528.5	528.5
22.5°	2019.4	1702.3	1090.4	723.2	592.5	539.6	509.0	492.3	486.8	486.8	486.8
25°	2083.4	1719.0	1020.8	664.8	556.3	506.2	467.3	453.4	450.6	450.6	447.8
27.5°	2158.5	1738.5	959.6	620.3	520.1	467.3	428.4	414.4	408.9	408.9	406.1
30°	2239.1	1757.9	909.6	586.9	484.0	428.4	392.2	375.5	369.9	372.7	369.9
32.5°	2328.2	1785.7	870.6	564.7	450.6	395.0	361.6	342.1	339.3	339.3	336.6
35°	2478.4	1863.6	865.1	553.5	422.8	369.9	336.6	317.1	314.3	314.3	311.5
37.5°	2639.7	1952.6	890.1	548.0	400.5	347.7	317.1	297.6	294.8	294.8	294.8
40°	2776.0	2019.4	917.9	548.0	386.6	328.2	300.4	283.7	283.7	283.7	283.7
42.5°	2867.8	2025.0	912.3	548.0	375.5	314.3	289.3	272.6	272.6	275.4	272.6
45°	3004.1	2052.8	890.1	539.6	367.2	303.2	278.2	264.2	261.5	264.2	264.2
47.5°	3165.4	2102.8	867.8	506.2	364.4	292.1	269.8	253.1	250.3	253.1	250.3
50°	3318.4	2147.4	856.7	461.7	358.8	280.9	258.7	242.0	239.2	242.0	239.2
52.5°	3446.3	2166.8	837.2	431.1	344.9	269.8	247.6	230.9	225.3	228.1	228.1
55°	3549.2	2161.3	809.4	406.1	319.9	258.7	233.6	219.7	211.4	211.4	208.6
57.5°	3643.8	2164.0	784.4	381.1	292.1	242.0	222.5	205.8	194.7	191.9	189.1
60°	3680.0	2150.1	739.9	347.7	264.2	228.1	208.6	189.1	178.0	175.2	172.5
62.5°	3629.9	2100.1	681.5	289.3	239.2	211.4	194.7	175.2	164.1	161.3	158.5
65°	3488.1	2005.5	592.5	228.1	217.0	191.9	178.0	164.1	150.2	144.6	141.9
67.5°	3246.1	1869.2	481.2	183.6	191.9	175.2	166.9	150.2	133.5	128.0	125.2
70°	2901.1	1688.4	361.6	155.8	169.7	155.8	150.2	133.5	119.6	114.0	111.3
72.5°	2417.2	1396.3	253.1	133.5	147.4	136.3	130.7	119.6	105.7	97.4	97.4
75°	1827.5	1001.4	166.9	114.0	122.4	116.8	108.5	100.1	91.8	86.2	83.4
77.5°	787.2	389.4	102.9	86.2	100.1	97.4	86.2	80.7	77.9	72.3	72.3
80°	339.3	158.5	64.0	64.0	72.3	69.5	66.8	61.2	61.2	58.4	55.6
82.5°	125.2	64.0	38.9	47.3	52.8	47.3	47.3	47.3	47.3	44.5	44.5
85°	30.6	19.5	19.5	27.8	30.6	27.8	30.6	27.8	27.8	27.8	25.0
87.5°	8.3	8.3	11.1	11.1	11.1	11.1	11.1	8.3	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)