

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: P841507

Luminaire Tested: **ARCH4-190-722-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-190-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18231 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 190
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



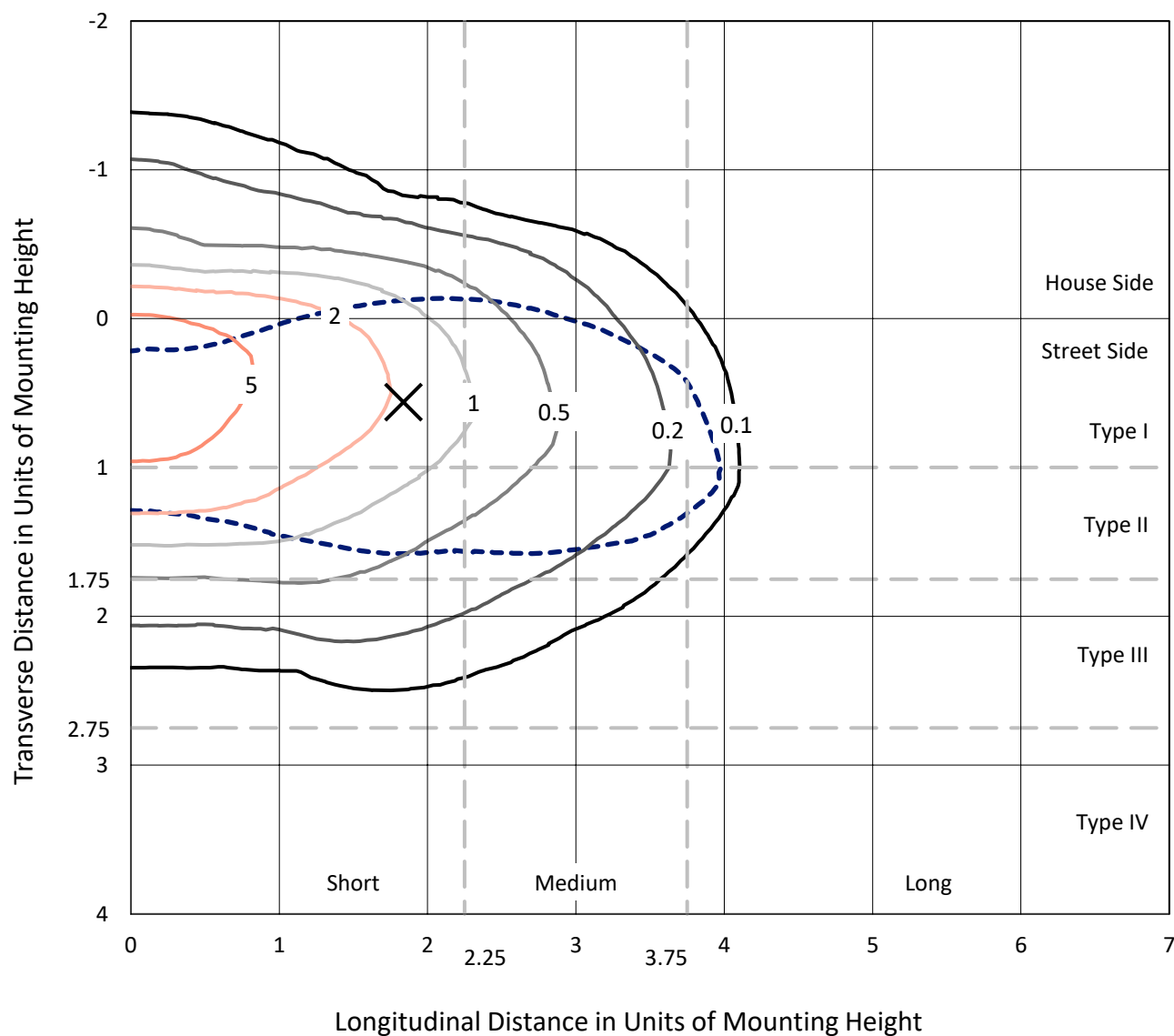
REPORT NUMBER: P841507

CATALOG NUMBER: ARCH4-190-722-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

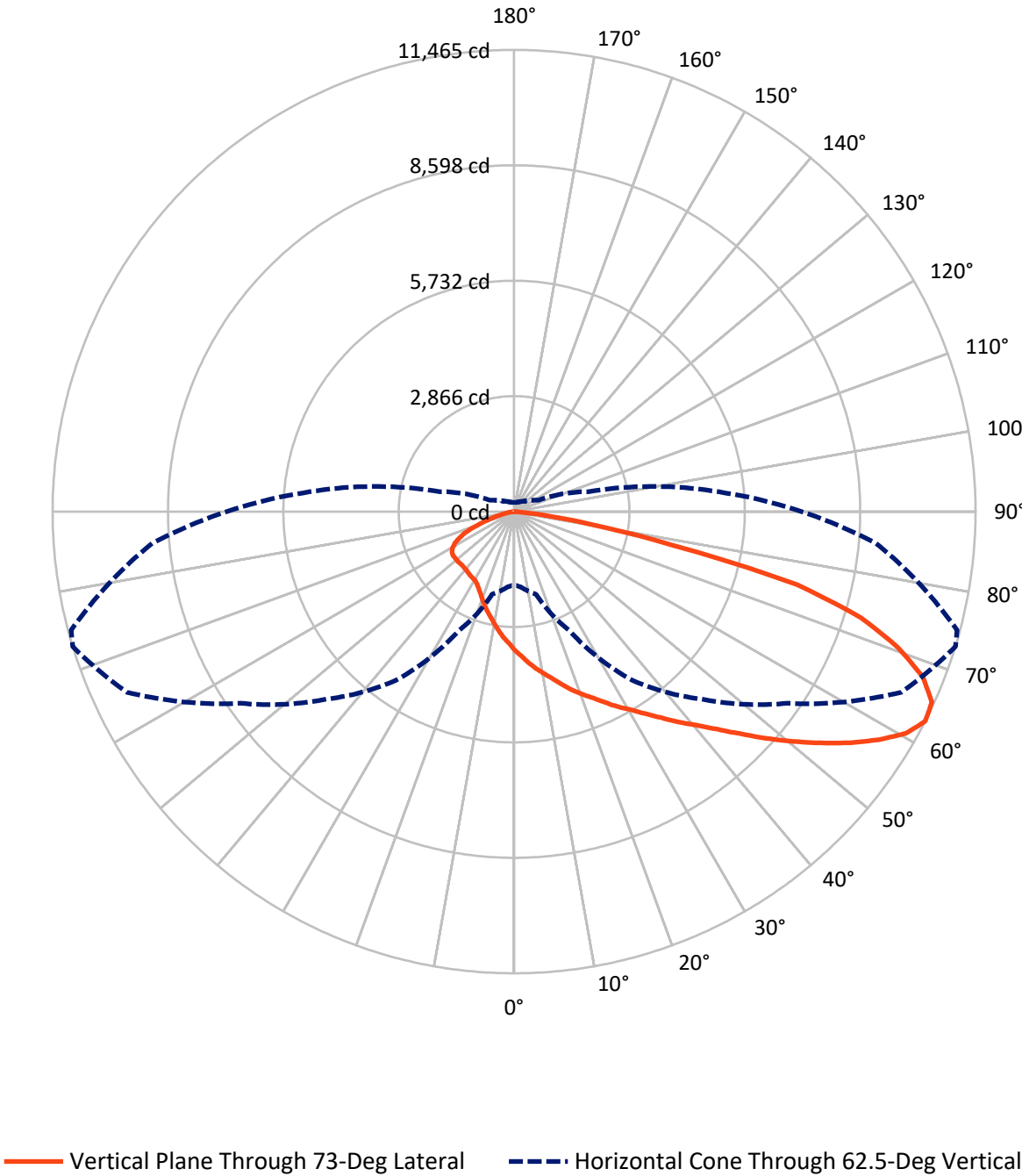


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc

Type II - Short - N/A

REPORT NUMBER: P841507
CATALOG NUMBER: ARCH4-190-722-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P841507

CATALOG NUMBER: ARCH4-190-722-U-T2U-HSS

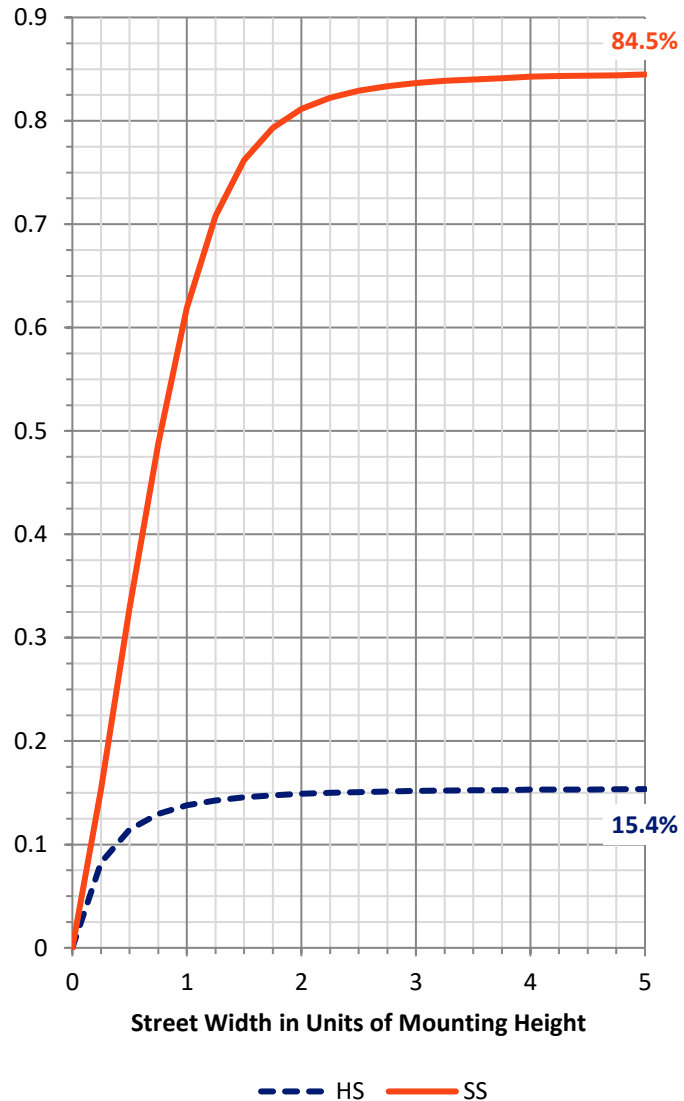
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2826.1	0.0	2826.1
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	15404.9	0.0	15404.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	18231.0	0.0	18231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.5	1.8
10°-20°	1006.3	5.5
20°-30°	1675.0	9.2
30°-40°	2527.4	13.9
40°-50°	3532.6	19.4
50°-60°	3902.0	21.4
60°-70°	3399.2	18.6
70°-80°	1717.1	9.4
80°-90°	137.8	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°	18231.0	100.0
0°-180°	18231.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841507

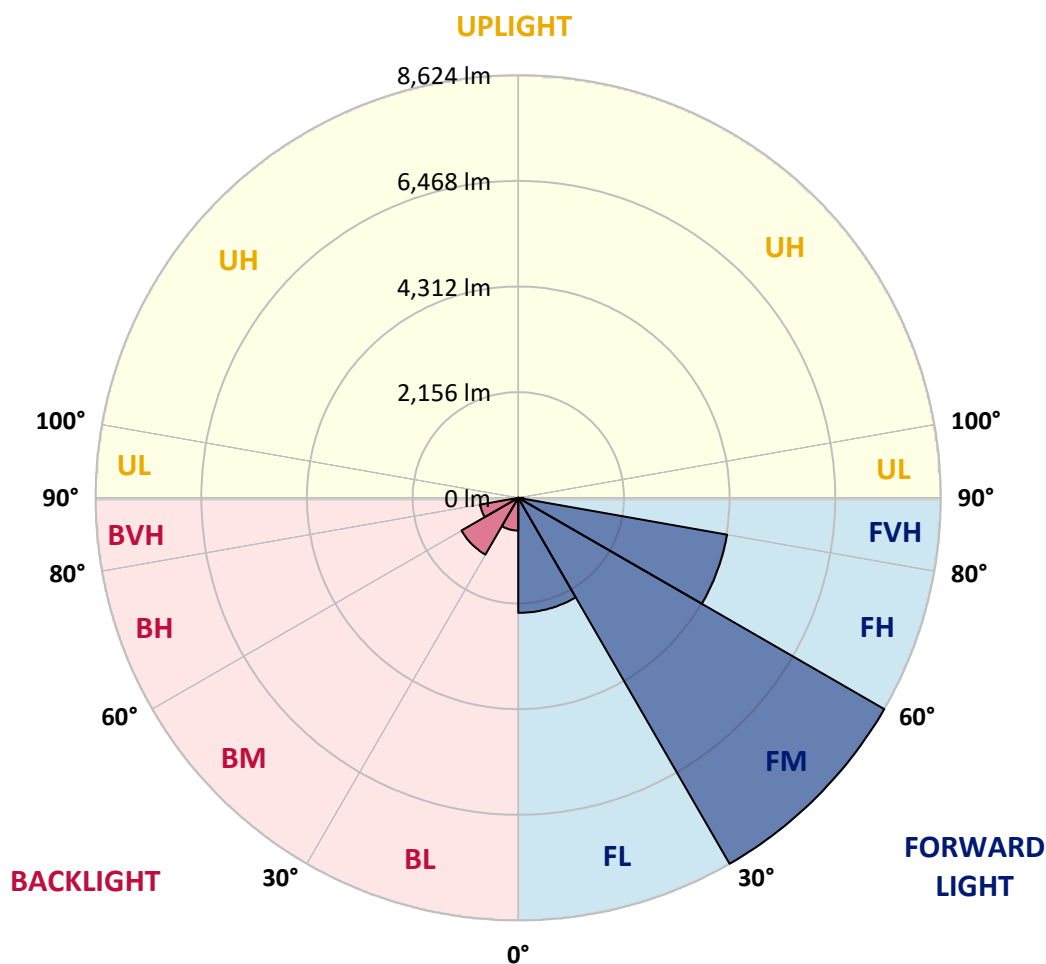
CATALOG NUMBER: ARCH4-190-722-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2346.9	12.9			
FM	(30°-60°)	8623.9	47.3			
FH	(60°-80°)	4327.4	23.7			G2/5000
FVH	(80°-90°)	106.7	0.6			G2/225
BL	(0°-30°)	668.0	3.7	B2/1000		
BM	(30°-60°)	1338.1	7.3	B2/2500		
BH	(60°-80°)	788.8	4.3	B2/1000		G2/1000
BVH	(80°-90°)	31.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P841507

CATALOG NUMBER: ARCH4-190-722-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	3452.1	3452.1	3452.1	3452.1	3452.1	3452.1	3452.1	3452.1	3452.1	3452.1	3452.1
2.5°	3928.8	3972.5	3948.6	3964.5	3885.1	3833.4	3773.8	3658.6	3595.1	3587.1	3511.7
5°	4504.8	4552.5	4512.7	4500.8	4361.8	4242.6	4107.5	3904.9	3769.9	3746.0	3579.2
7.5°	5080.8	5124.5	5076.8	5041.1	4854.4	4643.8	4445.2	4147.3	3936.7	3897.0	3634.8
10°	5486.0	5525.7	5490.0	5454.2	5259.6	5045.0	4763.0	4373.7	4087.7	4024.1	3670.6
12.5°	5791.9	5815.7	5799.8	5768.0	5585.3	5354.9	5084.8	4627.9	4258.5	4179.0	3726.2
15°	6042.1	6081.9	6062.0	6038.2	5863.4	5633.0	5374.8	4894.1	4457.1	4357.8	3809.6
17.5°	6209.0	6236.8	6240.8	6240.8	6085.8	5859.4	5609.1	5136.4	4655.7	4528.6	3889.1
20°	6284.5	6316.2	6336.1	6367.9	6240.8	6046.1	5791.9	5343.0	4842.4	4699.4	3964.5
22.5°	6320.2	6348.0	6399.7	6471.2	6367.9	6205.0	5970.6	5533.7	5029.2	4878.2	4051.9
25°	6348.0	6383.8	6459.2	6594.3	6522.8	6383.8	6181.2	5752.1	5251.6	5096.7	4179.0
27.5°	6423.5	6467.2	6538.7	6701.6	6614.2	6546.6	6403.6	5986.5	5486.0	5327.1	4334.0
30°	6685.7	6721.4	6717.5	6820.7	6713.5	6693.6	6594.3	6212.9	5712.4	5553.5	4516.7
32.5°	7162.4	7198.1	7110.7	7071.0	6836.6	6840.6	6800.9	6455.3	5982.5	5819.7	4727.2
35°	7674.8	7714.5	7599.3	7531.8	7138.5	7023.3	7043.2	6757.2	6284.5	6121.6	4989.4
37.5°	8131.7	8179.3	8080.0	7980.7	7583.4	7317.3	7313.3	7094.8	6630.1	6463.2	5279.4
40°	8381.9	8437.5	8497.1	8441.5	8024.4	7730.4	7603.3	7440.4	6971.7	6800.9	5593.2
42.5°	8501.1	8656.0	8763.3	8727.5	8385.9	8088.0	7937.0	7801.9	7388.8	7222.0	5966.7
45°	8167.4	8171.4	8397.8	8592.5	8528.9	8330.3	8302.5	8207.1	7865.5	7706.6	6387.7
47.5°	7750.3	7718.5	7877.4	8223.0	8401.8	8453.4	8616.3	8656.0	8409.7	8250.8	6816.8
50°	6749.2	6769.1	7285.5	7782.1	8131.7	8465.3	8838.8	9116.8	8969.8	8818.9	7269.6
52.5°	5490.0	5537.6	6129.5	7222.0	7774.1	8346.2	8969.8	9577.6	9541.9	9398.9	7722.5
55°	4401.5	4477.0	5104.6	6288.4	7317.3	8080.0	9025.5	9998.7	10133.8	10002.7	8167.4
57.5°	3364.7	3444.1	3972.5	5188.0	6733.3	7647.0	8985.7	10368.2	10686.0	10602.5	8576.6
60°	2534.4	2613.9	2951.5	4206.8	6002.4	7162.4	8787.1	10610.5	11182.5	11095.1	8874.5
62.5°	1815.4	1879.0	2129.2	3273.3	5112.6	6586.4	8298.5	10614.4	11464.6	11393.1	9017.5
65°	1306.9	1306.9	1509.5	2335.8	4278.4	5895.1	7559.6	10125.8	11405.0	11385.1	8918.2
67.5°	941.5	949.4	1112.3	1632.7	3412.4	5057.0	6602.2	9255.9	10944.2	11043.5	8560.7
70°	667.4	687.2	762.7	1140.1	2578.1	3992.3	5577.4	8115.8	10113.9	10288.7	7869.5
72.5°	516.4	528.3	580.0	794.5	1883.0	2967.4	4445.2	6844.6	9005.6	9204.2	6928.0
75°	397.2	409.2	448.9	584.0	1350.6	2081.6	3158.1	5311.2	7261.7	7615.2	5565.4
77.5°	290.0	305.9	333.7	425.1	786.5	1322.8	1914.7	2987.3	4008.2	4175.1	2915.8
80°	135.1	154.9	194.7	274.1	425.1	623.7	679.3	1152.0	1926.6	2014.0	1581.0
82.5°	75.5	95.3	111.2	166.8	214.5	222.5	230.4	290.0	727.0	802.4	663.4
85°	35.8	47.7	51.6	71.5	71.5	63.6	75.5	55.6	119.2	143.0	139.0
87.5°	0.0	4.0	7.9	19.9	15.9	11.9	11.9	11.9	11.9	15.9	11.9
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: P841507

CATALOG NUMBER: ARCH4-190-722-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3452.1	3452.1	3452.1	3452.1	3452.1	3452.1	3452.1	3452.1	3452.1	3452.1	3452.1
2.5°	3475.9	3424.3	3305.1	3201.8	3134.3	3074.7	2995.2	2959.5	2895.9	2907.8	2872.1
5°	3495.8	3400.4	3189.9	2995.2	2852.2	2725.1	2586.1	2506.6	2419.2	2411.3	2383.5
7.5°	3507.7	3360.7	3058.8	2784.7	2566.2	2371.6	2184.9	2081.6	1974.3	1950.5	1926.6
10°	3495.8	3301.1	2923.7	2566.2	2276.2	2033.9	1823.4	1692.3	1581.0	1553.2	1529.4
12.5°	3507.7	3269.3	2796.6	2363.6	2018.0	1743.9	1505.6	1370.5	1267.2	1239.4	1223.5
15°	3535.5	3249.5	2689.4	2180.9	1787.6	1481.7	1247.4	1132.2	1048.7	1020.9	1013.0
17.5°	3559.3	3229.6	2574.2	2002.1	1557.2	1251.3	1048.7	953.4	881.9	854.1	846.1
20°	3591.1	3201.8	2459.0	1831.3	1354.6	1068.6	889.8	806.4	750.8	730.9	727.0
22.5°	3618.9	3182.0	2351.7	1660.5	1167.9	921.6	770.7	703.1	663.4	643.5	643.5
25°	3690.4	3189.9	2260.3	1501.6	1028.9	806.4	679.3	627.7	595.9	584.0	584.0
27.5°	3773.8	3221.7	2188.8	1366.5	909.7	719.0	615.7	572.0	556.1	540.3	544.2
30°	3893.0	3285.2	2141.2	1255.3	822.3	651.5	564.1	532.3	516.4	512.4	512.4
32.5°	4044.0	3388.5	2137.2	1183.8	758.7	599.8	528.3	500.5	492.6	488.6	488.6
35°	4222.7	3479.9	2113.4	1152.0	719.0	564.1	500.5	480.7	476.7	476.7	476.7
37.5°	4437.3	3630.8	2097.5	1108.3	699.2	544.2	480.7	464.8	464.8	464.8	464.8
40°	4659.7	3754.0	2073.6	1068.6	691.2	532.3	468.8	448.9	448.9	448.9	448.9
42.5°	4925.9	3932.7	2065.7	1048.7	679.3	524.4	452.9	429.0	433.0	433.0	437.0
45°	5247.6	4135.3	2061.7	1028.9	675.3	516.4	437.0	409.2	413.1	409.2	409.2
47.5°	5573.4	4369.7	2073.6	1017.0	671.3	508.5	425.1	389.3	389.3	385.3	385.3
50°	5915.0	4584.2	2081.6	1005.0	663.4	492.6	405.2	373.4	365.5	357.5	361.5
52.5°	6236.8	4782.9	2085.5	985.2	639.6	468.8	389.3	353.6	341.6	329.7	333.7
55°	6558.6	4973.5	2093.5	961.3	607.8	444.9	369.4	333.7	317.8	301.9	301.9
57.5°	6848.5	5140.4	2073.6	901.8	572.0	421.1	349.6	309.9	286.0	270.1	270.1
60°	7047.2	5259.6	2014.0	814.4	524.4	393.3	329.7	286.0	258.2	246.3	246.3
62.5°	7142.5	5279.4	1906.8	671.3	464.8	365.5	305.9	262.2	238.3	230.4	230.4
65°	7051.1	5192.0	1739.9	504.5	401.2	333.7	282.0	242.3	218.5	198.6	198.6
67.5°	6733.3	4945.7	1509.5	381.4	341.6	301.9	258.2	222.5	194.7	178.8	178.8
70°	6093.8	4433.3	1167.9	305.9	290.0	262.2	234.4	198.6	174.8	154.9	154.9
72.5°	5255.6	3758.0	822.3	246.3	246.3	222.5	198.6	174.8	151.0	135.1	135.1
75°	4032.1	2780.7	552.2	198.6	202.6	186.7	162.9	143.0	127.1	115.2	115.2
77.5°	2200.7	1374.5	337.7	147.0	151.0	143.0	127.1	115.2	107.3	95.3	95.3
80°	1068.6	603.8	194.7	103.3	107.3	103.3	95.3	83.4	83.4	75.5	75.5
82.5°	448.9	226.4	103.3	71.5	71.5	63.6	59.6	59.6	59.6	55.6	55.6
85°	111.2	43.7	43.7	39.7	39.7	39.7	35.8	35.8	35.8	27.8	31.8
87.5°	15.9	15.9	15.9	15.9	15.9	15.9	11.9	4.0	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)