

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: P835957

Luminaire Tested: **ARCH3-120-727-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-120-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12172 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - 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

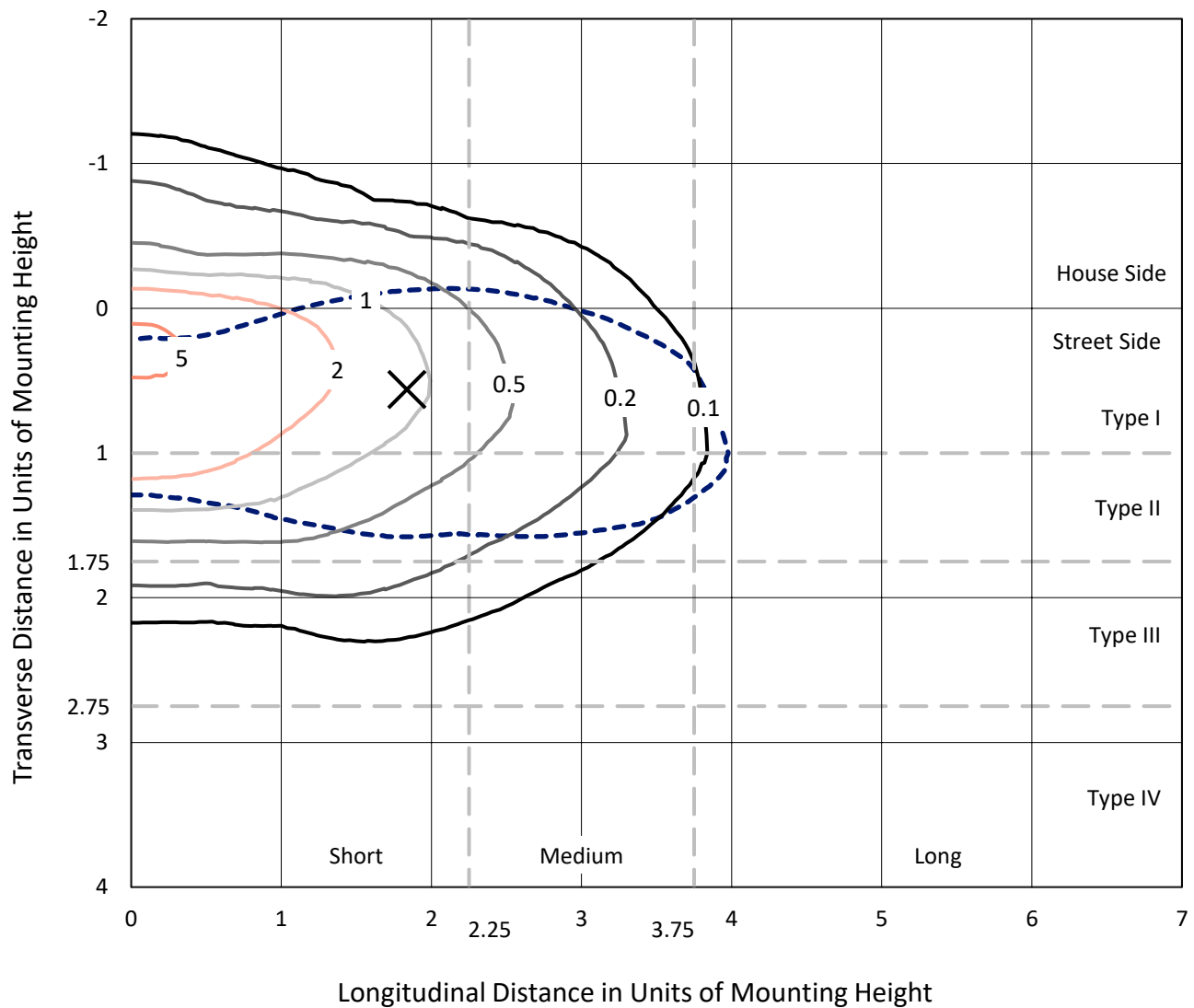


REPORT NUMBER: P835957

CATALOG NUMBER: ARCH3-120-727-U-T2U-HSS

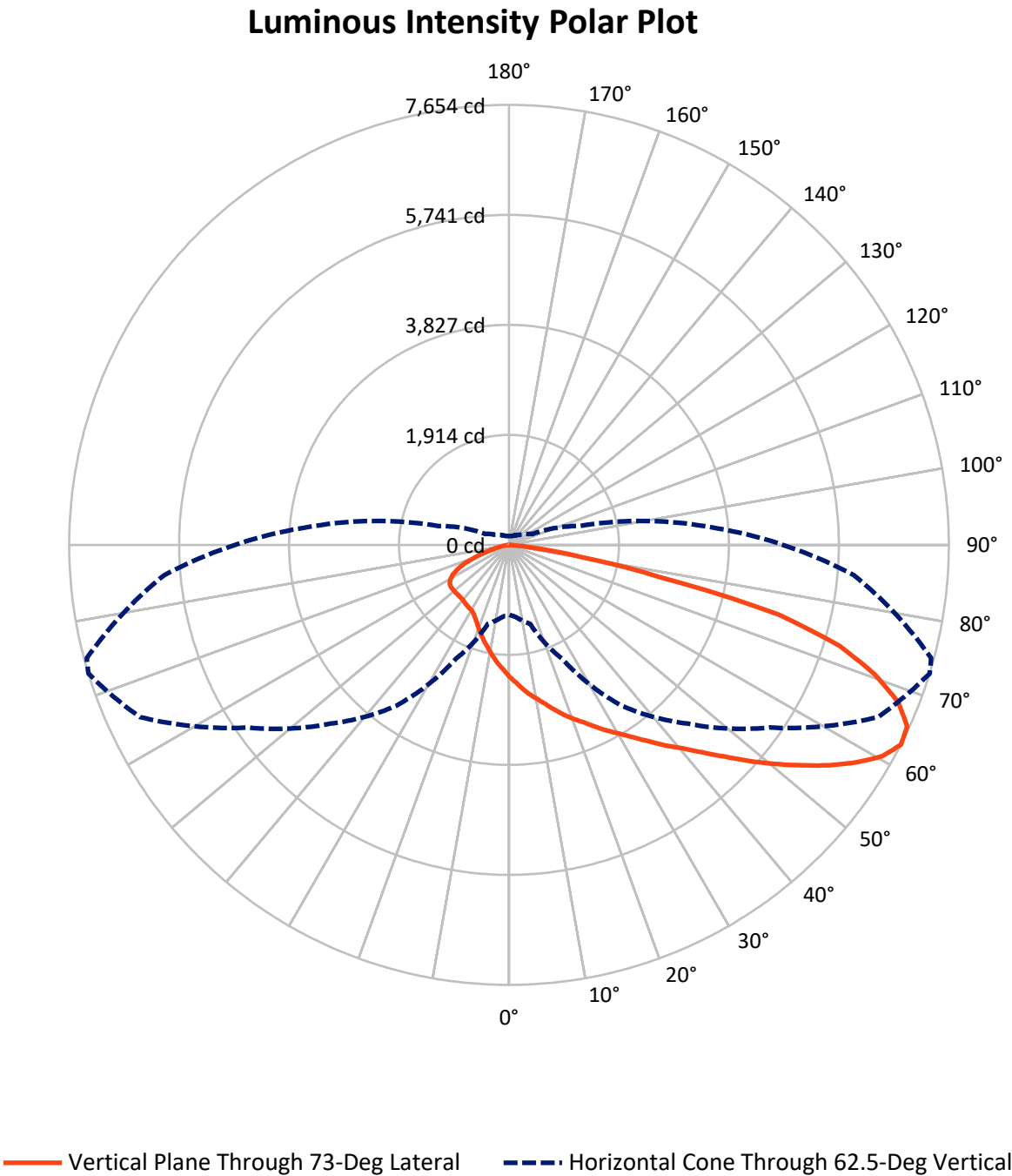
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
Type II - Short - N/A

REPORT NUMBER: P835957
CATALOG NUMBER: ARCH3-120-727-U-T2U-HSS



REPORT NUMBER: P835957

CATALOG NUMBER: ARCH3-120-727-U-T2U-HSS

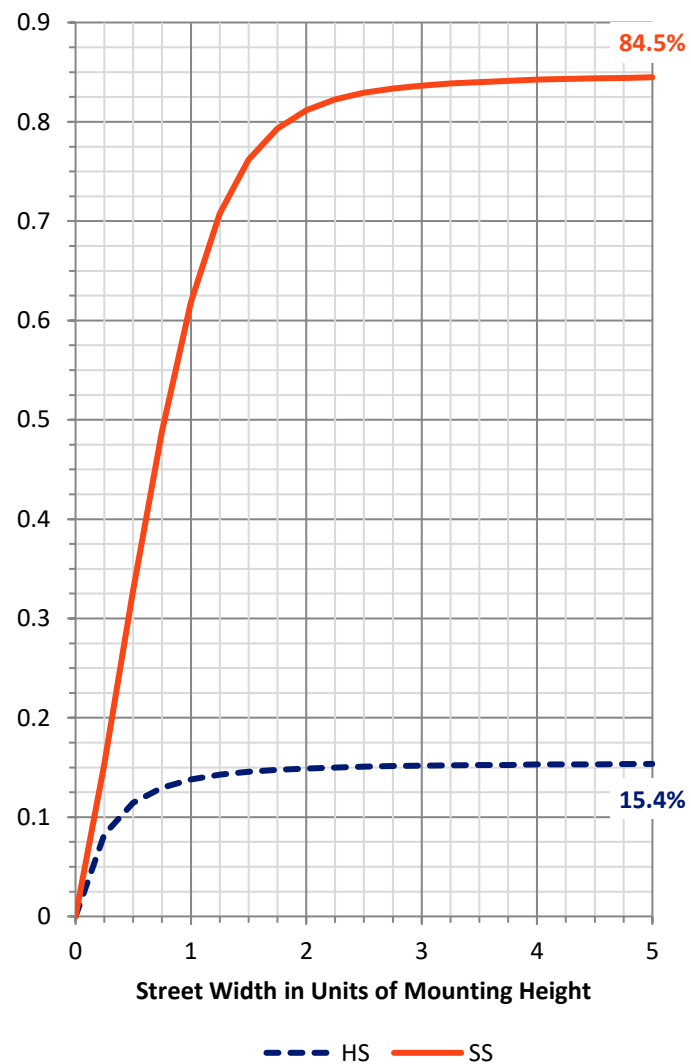
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1886.8	0.0	1886.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	10285.2	0.0	10285.2
	% Fixture	84.5	0.0	84.5
Total	Lumens	12172.0	0.0	12172.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.7	1.8
10°-20°	671.9	5.5
20°-30°	1118.3	9.2
30°-40°	1687.4	13.9
40°-50°	2358.6	19.4
50°-60°	2605.2	21.4
60°-70°	2269.5	18.6
70°-80°	1146.4	9.4
80°-90°	92.0	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°	12172.0	100.0
0°-180°	12172.0	100.0

Coefficient of Utilization



REPORT NUMBER: P835957

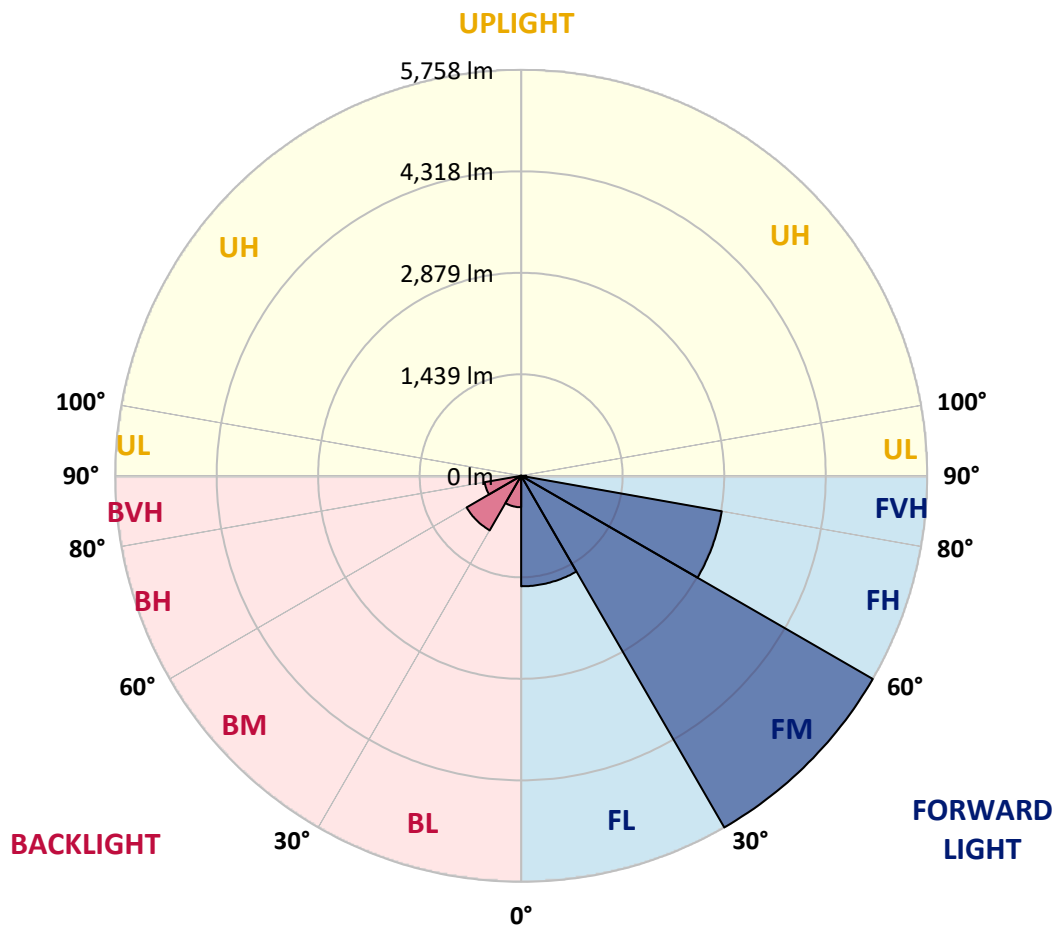
CATALOG NUMBER: ARCH3-120-727-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1566.9	12.9			
FM	(30°-60°)	5757.8	47.3			
FH	(60°-80°)	2889.2	23.7			G2/5000
FVH	(80°-90°)	71.2	0.6			G1/100
BL	(0°-30°)	446.0	3.7	B1/500		
BM	(30°-60°)	893.4	7.3	B1/1000		
BH	(60°-80°)	526.6	4.3	B2/1000		G2/1000
BVH	(80°-90°)	20.8	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: P835957

CATALOG NUMBER: ARCH3-120-727-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8
2.5°	2623.1	2652.2	2636.3	2646.9	2593.9	2559.4	2519.6	2442.7	2400.3	2395.0	2344.6
5°	3007.6	3039.5	3012.9	3005.0	2912.2	2832.6	2742.4	2607.1	2517.0	2501.1	2389.7
7.5°	3392.2	3421.4	3389.6	3365.7	3241.0	3100.5	2967.9	2768.9	2628.4	2601.8	2426.8
10°	3662.7	3689.3	3665.4	3641.5	3511.6	3368.3	3180.0	2920.1	2729.2	2686.7	2450.7
12.5°	3867.0	3882.9	3872.3	3851.0	3729.0	3575.2	3394.9	3089.9	2843.2	2790.2	2487.8
15°	4034.1	4060.6	4047.3	4031.4	3914.7	3760.9	3588.5	3267.6	2975.8	2909.5	2543.5
17.5°	4145.4	4164.0	4166.7	4166.7	4063.2	3912.0	3745.0	3429.3	3108.4	3023.6	2596.5
20°	4195.8	4217.1	4230.3	4251.5	4166.7	4036.7	3867.0	3567.3	3233.1	3137.6	2646.9
22.5°	4219.7	4238.3	4272.8	4320.5	4251.5	4142.8	3986.3	3694.6	3357.7	3256.9	2705.3
25°	4238.3	4262.1	4312.5	4402.7	4355.0	4262.1	4126.9	3840.4	3506.3	3402.8	2790.2
27.5°	4288.7	4317.8	4365.6	4474.3	4416.0	4370.9	4275.4	3996.9	3662.7	3556.6	2893.6
30°	4463.7	4487.6	4484.9	4553.9	4482.3	4469.0	4402.7	4148.1	3813.9	3707.8	3015.6
32.5°	4782.0	4805.9	4747.5	4721.0	4564.5	4567.2	4540.6	4309.9	3994.3	3885.5	3156.2
35°	5124.1	5150.6	5073.7	5028.6	4766.1	4689.2	4702.4	4511.5	4195.8	4087.1	3331.2
37.5°	5429.1	5461.0	5394.7	5328.3	5063.1	4885.4	4882.8	4736.9	4426.6	4315.2	3524.8
40°	5596.2	5633.4	5673.1	5636.0	5357.5	5161.3	5076.4	4967.6	4654.7	4540.6	3734.3
42.5°	5675.8	5779.2	5850.8	5827.0	5598.9	5400.0	5299.2	5209.0	4933.2	4821.8	3983.7
45°	5453.0	5455.7	5606.8	5736.8	5694.4	5561.7	5543.2	5479.5	5251.4	5145.3	4264.8
47.5°	5174.5	5153.3	5259.4	5490.1	5609.5	5644.0	5752.7	5779.2	5614.8	5508.7	4551.2
50°	4506.2	4519.4	4864.2	5195.7	5429.1	5651.9	5901.2	6086.9	5988.8	5888.0	4853.6
52.5°	3665.4	3697.2	4092.4	4821.8	5190.4	5572.4	5988.8	6394.5	6370.7	6275.2	5155.9
55°	2938.7	2989.1	3408.1	4198.5	4885.4	5394.7	6025.9	6675.7	6765.9	6678.3	5453.0
57.5°	2246.4	2299.5	2652.2	3463.8	4495.5	5105.6	5999.4	6922.3	7134.5	7078.8	5726.2
60°	1692.1	1745.2	1970.6	2808.7	4007.5	4782.0	5866.7	7084.1	7466.0	7407.7	5925.1
62.5°	1212.1	1254.5	1421.6	2185.4	3413.4	4397.4	5540.5	7086.8	7654.4	7606.6	6020.6
65°	872.6	872.6	1007.9	1559.5	2856.5	3935.9	5047.2	6760.6	7614.6	7601.3	5954.3
67.5°	628.6	633.9	742.6	1090.1	2278.3	3376.3	4408.0	6179.7	7306.9	7373.2	5715.6
70°	445.6	458.8	509.2	761.2	1721.3	2665.5	3723.7	5418.5	6752.6	6869.3	5254.1
72.5°	344.8	352.7	387.2	530.4	1257.2	1981.2	2967.9	4569.8	6012.6	6145.2	4625.5
75°	265.2	273.2	299.7	389.9	901.8	1389.8	2108.5	3546.0	4848.3	5084.3	3715.8
77.5°	193.6	204.2	222.8	283.8	525.1	883.2	1278.4	1994.5	2676.1	2787.5	1946.7
80°	90.2	103.4	130.0	183.0	283.8	416.4	453.5	769.1	1286.3	1344.7	1055.6
82.5°	50.4	63.7	74.3	111.4	143.2	148.5	153.8	193.6	485.4	535.8	442.9
85°	23.9	31.8	34.5	47.7	47.7	42.4	50.4	37.1	79.6	95.5	92.8
87.5°	0.0	2.7	5.3	13.3	10.6	8.0	8.0	8.0	8.0	10.6	8.0
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: P835957

CATALOG NUMBER: ARCH3-120-727-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8
2.5°	2320.7	2286.2	2206.7	2137.7	2092.6	2052.8	1999.8	1975.9	1933.5	1941.4	1917.6
5°	2334.0	2270.3	2129.7	1999.8	1904.3	1819.4	1726.6	1673.6	1615.2	1609.9	1591.3
7.5°	2341.9	2243.8	2042.2	1859.2	1713.3	1583.4	1458.7	1389.8	1318.2	1302.2	1286.3
10°	2334.0	2204.0	1952.0	1713.3	1519.7	1357.9	1217.4	1129.9	1055.6	1037.0	1021.1
12.5°	2341.9	2182.8	1867.2	1578.1	1347.3	1164.3	1005.2	915.0	846.1	827.5	816.9
15°	2360.5	2169.5	1795.6	1456.1	1193.5	989.3	832.8	755.9	700.2	681.6	676.3
17.5°	2376.4	2156.3	1718.6	1336.7	1039.7	835.5	700.2	636.5	588.8	570.2	564.9
20°	2397.6	2137.7	1641.7	1222.7	904.4	713.5	594.1	538.4	501.3	488.0	485.4
22.5°	2416.2	2124.4	1570.1	1108.6	779.8	615.3	514.5	469.4	442.9	429.7	429.7
25°	2463.9	2129.7	1509.1	1002.5	686.9	538.4	453.5	419.1	397.8	389.9	389.9
27.5°	2519.6	2151.0	1461.4	912.4	607.4	480.1	411.1	381.9	371.3	360.7	363.4
30°	2599.2	2193.4	1429.6	838.1	549.0	435.0	376.6	355.4	344.8	342.1	342.1
32.5°	2700.0	2262.4	1426.9	790.4	506.6	400.5	352.7	334.2	328.9	326.2	326.2
35°	2819.3	2323.4	1411.0	769.1	480.1	376.6	334.2	320.9	318.3	318.3	318.3
37.5°	2962.5	2424.1	1400.4	740.0	466.8	363.4	320.9	310.3	310.3	310.3	310.3
40°	3111.1	2506.4	1384.5	713.5	461.5	355.4	313.0	299.7	299.7	299.7	299.7
42.5°	3288.8	2625.7	1379.2	700.2	453.5	350.1	302.4	286.4	289.1	289.1	291.7
45°	3503.6	2761.0	1376.5	686.9	450.9	344.8	291.7	273.2	275.8	273.2	273.2
47.5°	3721.1	2917.5	1384.5	679.0	448.2	339.5	283.8	259.9	259.9	257.3	257.3
50°	3949.2	3060.7	1389.8	671.0	442.9	328.9	270.5	249.3	244.0	238.7	241.4
52.5°	4164.0	3193.3	1392.4	657.8	427.0	313.0	259.9	236.0	228.1	220.1	222.8
55°	4378.8	3320.6	1397.7	641.8	405.8	297.1	246.7	222.8	212.2	201.6	201.6
57.5°	4572.5	3432.0	1384.5	602.1	381.9	281.1	233.4	206.9	191.0	180.4	180.4
60°	4705.1	3511.6	1344.7	543.7	350.1	262.6	220.1	191.0	172.4	164.4	164.4
62.5°	4768.7	3524.8	1273.1	448.2	310.3	244.0	204.2	175.0	159.1	153.8	153.8
65°	4707.7	3466.5	1161.7	336.8	267.9	222.8	188.3	161.8	145.9	132.6	132.6
67.5°	4495.5	3302.0	1007.9	254.6	228.1	201.6	172.4	148.5	130.0	119.4	119.4
70°	4068.5	2959.9	779.8	204.2	193.6	175.0	156.5	132.6	116.7	103.4	103.4
72.5°	3508.9	2509.0	549.0	164.4	164.4	148.5	132.6	116.7	100.8	90.2	90.2
75°	2692.0	1856.6	368.7	132.6	135.3	124.7	108.7	95.5	84.9	76.9	76.9
77.5°	1469.3	917.7	225.4	98.1	100.8	95.5	84.9	76.9	71.6	63.7	63.7
80°	713.5	403.1	130.0	69.0	71.6	69.0	63.7	55.7	55.7	50.4	50.4
82.5°	299.7	151.2	69.0	47.7	47.7	42.4	39.8	39.8	39.8	37.1	37.1
85°	74.3	29.2	29.2	26.5	26.5	26.5	23.9	23.9	23.9	18.6	21.2
87.5°	10.6	10.6	10.6	10.6	10.6	10.6	8.0	2.7	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)