

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: P836236

Luminaire Tested: **ARCH3-160-722-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836236
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: ARCH3-160-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1245mA 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: 13411 lumens
Efficiency: N/A
Efficacy: 83.3 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): 161
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

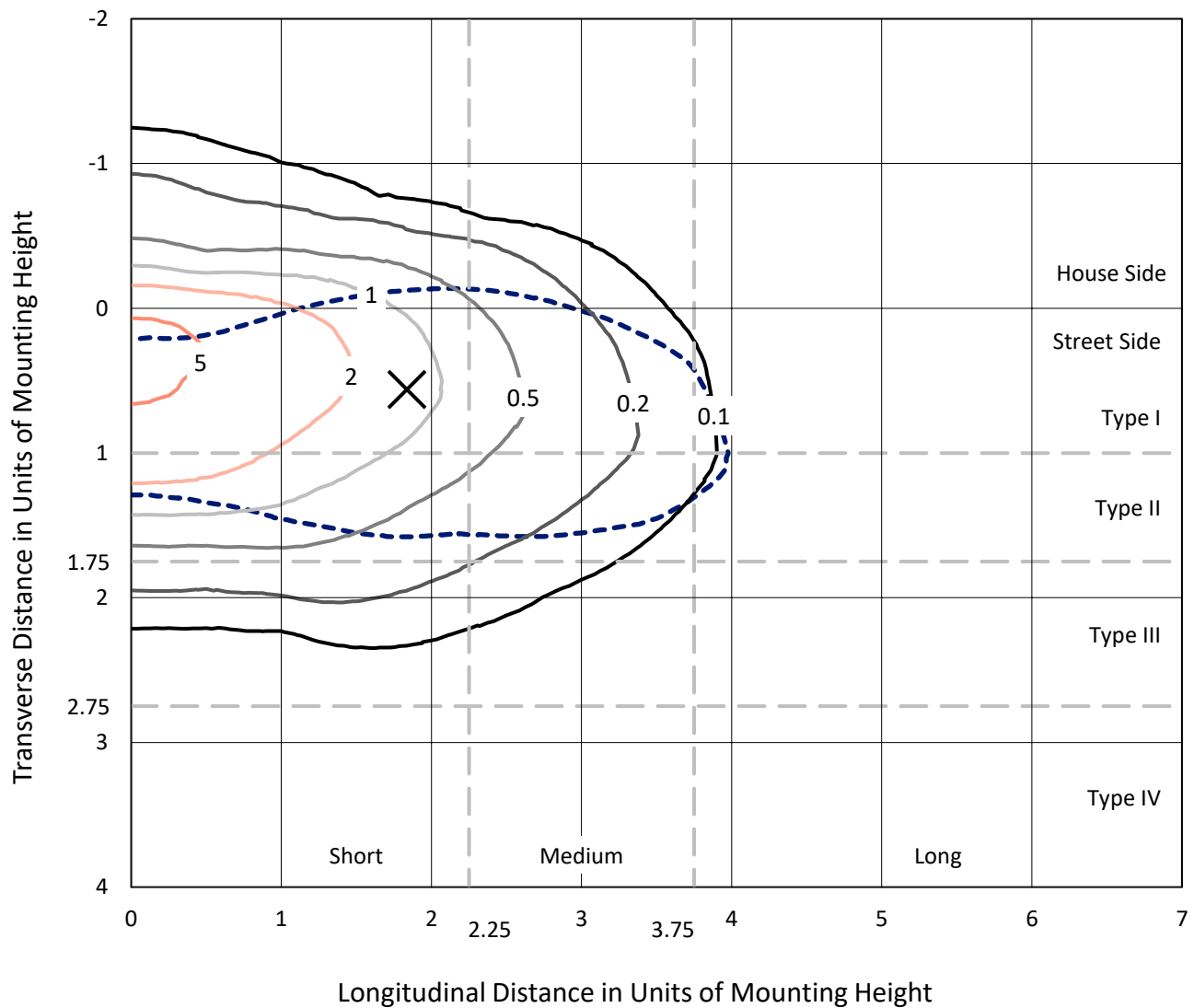


REPORT NUMBER: P836236

CATALOG NUMBER: ARCH3-160-722-U-T2U-HSS

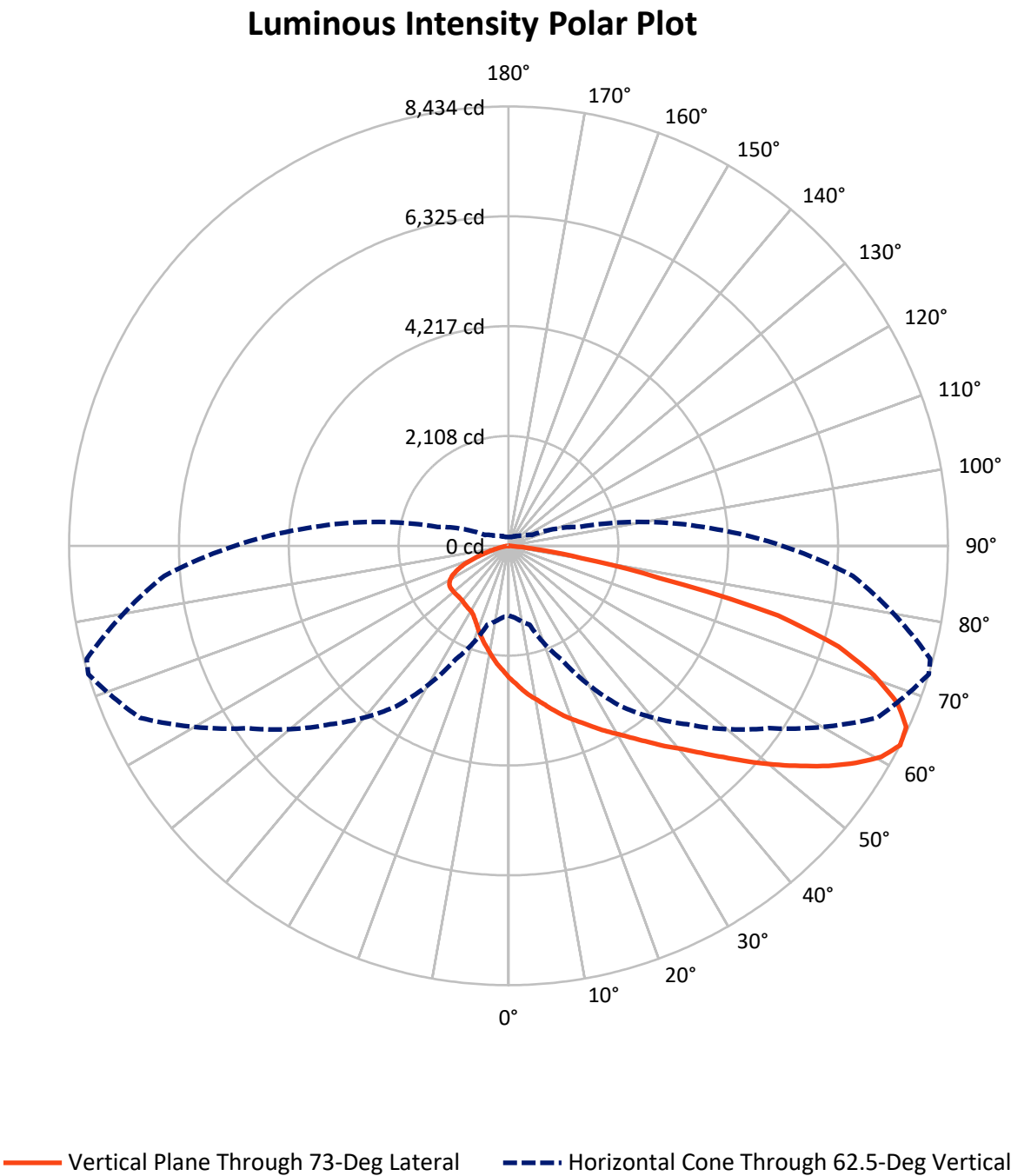
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type II - Short - N/A

REPORT NUMBER: P836236
CATALOG NUMBER: ARCH3-160-722-U-T2U-HSS



REPORT NUMBER: P836236

CATALOG NUMBER: ARCH3-160-722-U-T2U-HSS

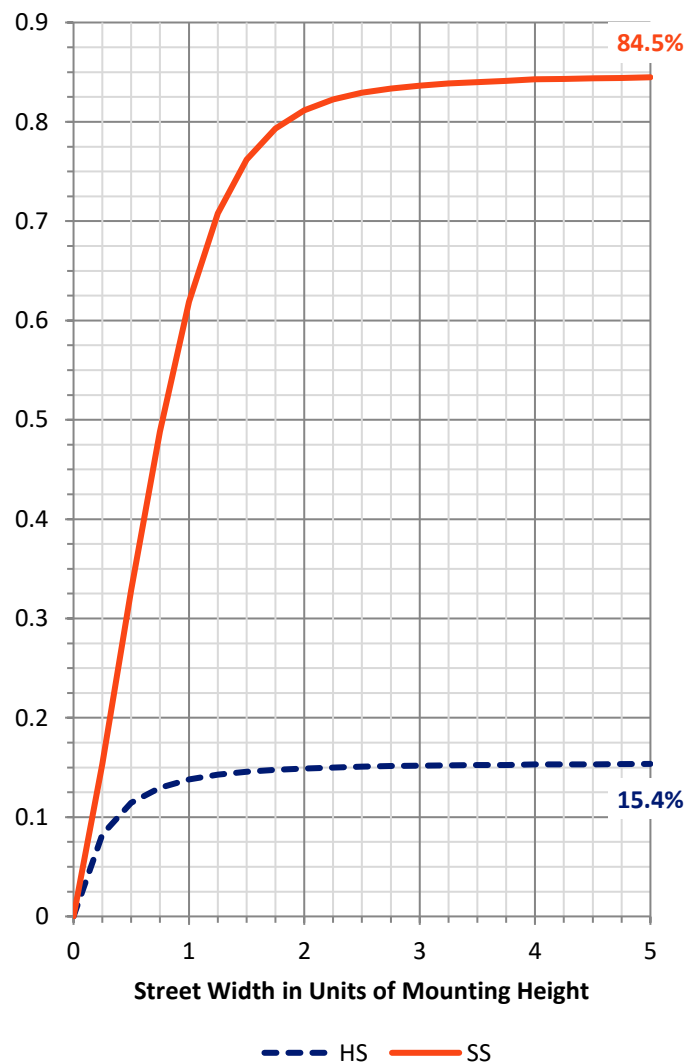
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2078.9	0.0	2078.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	11332.1	0.0	11332.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	13411.0	0.0	13411.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.3	1.8
10°-20°	740.3	5.5
20°-30°	1232.2	9.2
30°-40°	1859.2	13.9
40°-50°	2598.7	19.4
50°-60°	2870.4	21.4
60°-70°	2500.5	18.6
70°-80°	1263.1	9.4
80°-90°	101.4	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°	13411.0	100.0
0°-180°	13411.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836236

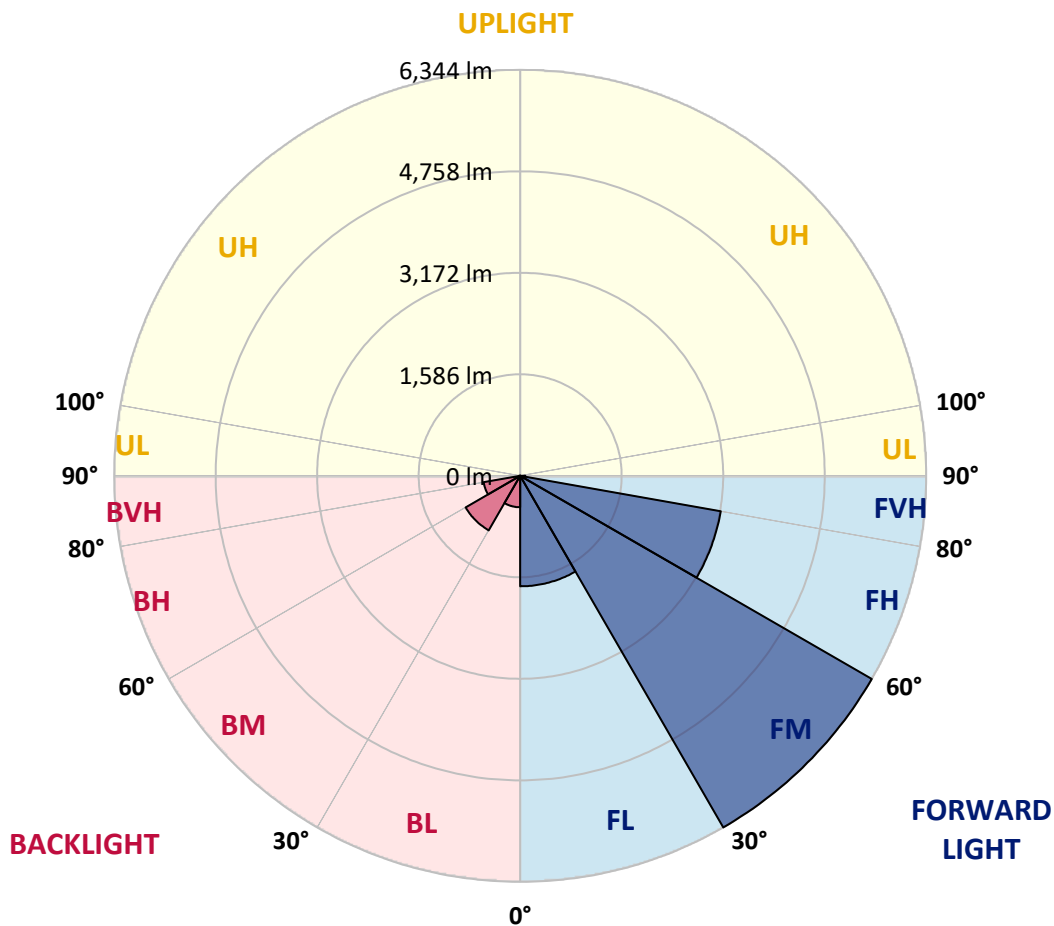
CATALOG NUMBER: ARCH3-160-722-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1726.4	12.9			
FM	(30°-60°)	6343.9	47.3			
FH	(60°-80°)	3183.3	23.7			G2/5000
FVH	(80°-90°)	78.5	0.6			G1/100
BL	(0°-30°)	491.4	3.7	B1/500		
BM	(30°-60°)	984.4	7.3	B1/1000		
BH	(60°-80°)	580.2	4.3	B2/1000		G2/1000
BVH	(80°-90°)	22.9	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: P836236

CATALOG NUMBER: ARCH3-160-722-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2539.4	2539.4	2539.4	2539.4	2539.4	2539.4	2539.4	2539.4	2539.4	2539.4	2539.4
2.5°	2890.1	2922.2	2904.7	2916.4	2857.9	2819.9	2776.1	2691.4	2644.6	2638.8	2583.2
5°	3313.8	3348.9	3319.6	3310.9	3208.6	3120.9	3021.6	2872.5	2773.2	2755.6	2632.9
7.5°	3737.5	3769.7	3734.6	3708.3	3570.9	3416.1	3270.0	3050.8	2895.9	2866.7	2673.8
10°	4035.6	4064.8	4038.5	4012.2	3869.0	3711.2	3503.7	3217.4	3007.0	2960.2	2700.1
12.5°	4260.6	4278.1	4266.4	4243.1	4108.6	3939.1	3740.4	3404.4	3132.6	3074.2	2741.0
15°	4444.7	4473.9	4459.3	4441.8	4313.2	4143.7	3953.8	3600.2	3278.7	3205.7	2802.4
17.5°	4567.4	4587.9	4590.8	4590.8	4476.8	4310.3	4126.2	3778.4	3424.8	3331.3	2860.8
20°	4622.9	4646.3	4660.9	4684.3	4590.8	4447.6	4260.6	3930.4	3562.2	3457.0	2916.4
22.5°	4649.2	4669.7	4707.7	4760.3	4684.3	4564.5	4392.1	4070.6	3699.5	3588.5	2980.7
25°	4669.7	4696.0	4751.5	4850.9	4798.3	4696.0	4547.0	4231.4	3863.2	3749.2	3074.2
27.5°	4725.2	4757.4	4810.0	4929.8	4865.5	4815.8	4710.6	4403.8	4035.6	3918.7	3188.1
30°	4918.1	4944.4	4941.5	5017.4	4938.5	4923.9	4850.9	4570.3	4202.1	4085.3	3322.6
32.5°	5268.7	5295.0	5230.8	5201.5	5029.1	5032.0	5002.8	4748.6	4400.8	4281.0	3477.4
35°	5645.7	5674.9	5590.2	5540.5	5251.2	5166.5	5181.1	4970.7	4622.9	4503.1	3670.3
37.5°	5981.8	6016.8	5943.8	5870.7	5578.5	5382.7	5379.8	5219.1	4877.2	4754.4	3883.6
40°	6165.9	6206.8	6250.6	6209.7	5902.9	5686.6	5593.1	5473.3	5128.5	5002.8	4114.5
42.5°	6253.5	6367.5	6446.4	6420.1	6168.8	5949.6	5838.6	5739.2	5435.3	5312.6	4389.2
45°	6008.1	6011.0	6177.6	6320.7	6274.0	6127.9	6107.4	6037.3	5786.0	5669.1	4698.9
47.5°	5701.2	5677.9	5794.7	6049.0	6180.5	6218.5	6338.3	6367.5	6186.3	6069.4	5014.5
50°	4964.8	4979.4	5359.3	5724.6	5981.8	6227.2	6501.9	6706.5	6598.4	6487.3	5347.6
52.5°	4038.5	4073.6	4509.0	5312.6	5718.8	6139.6	6598.4	7045.5	7019.2	6914.0	5680.8
55°	3237.8	3293.3	3755.0	4625.9	5382.7	5943.8	6639.3	7355.2	7454.6	7358.1	6008.1
57.5°	2475.1	2533.6	2922.2	3816.4	4953.1	5625.3	6610.0	7627.0	7860.7	7799.4	6309.1
60°	1864.4	1922.8	2171.2	3094.6	4415.5	5268.7	6463.9	7805.2	8226.0	8161.7	6528.2
62.5°	1335.5	1382.2	1566.3	2407.9	3760.9	4845.0	6104.5	7808.1	8433.5	8380.9	6633.4
65°	961.4	961.4	1110.4	1718.3	3147.2	4336.6	5561.0	7448.7	8389.7	8375.1	6560.4
67.5°	692.6	698.4	818.2	1201.0	2510.2	3720.0	4856.7	6808.8	8050.7	8123.7	6297.4
70°	490.9	505.5	561.1	838.7	1896.5	2936.8	4102.8	5970.1	7439.9	7568.5	5788.9
72.5°	379.9	388.7	426.6	584.4	1385.1	2182.9	3270.0	5035.0	6624.7	6770.8	5096.3
75°	292.2	301.0	330.2	429.6	993.6	1531.2	2323.2	3907.0	5341.8	5601.9	4094.0
77.5°	213.3	225.0	245.5	312.7	578.6	973.1	1408.5	2197.5	2948.5	3071.2	2144.9
80°	99.4	114.0	143.2	201.6	312.7	458.8	499.7	847.4	1417.3	1481.6	1163.0
82.5°	55.5	70.1	81.8	122.7	157.8	163.6	169.5	213.3	534.8	590.3	488.0
85°	26.3	35.1	38.0	52.6	52.6	46.8	55.5	40.9	87.7	105.2	102.3
87.5°	0.0	2.9	5.8	14.6	11.7	8.8	8.8	8.8	8.8	11.7	8.8
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: P836236

CATALOG NUMBER: ARCH3-160-722-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2539.4	2539.4	2539.4	2539.4	2539.4	2539.4	2539.4	2539.4	2539.4	2539.4	2539.4
2.5°	2556.9	2518.9	2431.3	2355.3	2305.6	2261.8	2203.3	2177.0	2130.3	2139.1	2112.8
5°	2571.5	2501.4	2346.5	2203.3	2098.1	2004.6	1902.4	1843.9	1779.6	1773.8	1753.3
7.5°	2580.3	2472.2	2250.1	2048.5	1887.7	1744.6	1607.2	1531.2	1452.3	1434.8	1417.3
10°	2571.5	2428.4	2150.7	1887.7	1674.4	1496.2	1341.3	1244.9	1163.0	1142.6	1125.1
12.5°	2580.3	2405.0	2057.2	1738.7	1484.5	1282.9	1107.5	1008.2	932.2	911.7	900.0
15°	2600.8	2390.4	1978.3	1604.3	1315.0	1090.0	917.6	832.8	771.5	751.0	745.2
17.5°	2618.3	2375.8	1893.6	1472.8	1145.5	920.5	771.5	701.3	648.7	628.3	622.4
20°	2641.7	2355.3	1808.8	1347.1	996.5	786.1	654.6	593.2	552.3	537.7	534.8
22.5°	2662.1	2340.7	1729.9	1221.5	859.1	678.0	566.9	517.2	488.0	473.4	473.4
25°	2714.7	2346.5	1662.7	1104.6	756.9	593.2	499.7	461.7	438.3	429.6	429.6
27.5°	2776.1	2369.9	1610.1	1005.2	669.2	528.9	452.9	420.8	409.1	397.4	400.3
30°	2863.8	2416.7	1575.1	923.4	604.9	479.2	415.0	391.6	379.9	377.0	377.0
32.5°	2974.8	2492.6	1572.1	870.8	558.1	441.3	388.7	368.2	362.4	359.4	359.4
35°	3106.3	2559.9	1554.6	847.4	528.9	415.0	368.2	353.6	350.7	350.7	350.7
37.5°	3264.1	2670.9	1542.9	815.3	514.3	400.3	353.6	341.9	341.9	341.9	341.9
40°	3427.8	2761.5	1525.4	786.1	508.5	391.6	344.8	330.2	330.2	330.2	330.2
42.5°	3623.5	2893.0	1519.5	771.5	499.7	385.7	333.1	315.6	318.5	318.5	321.4
45°	3860.2	3042.0	1516.6	756.9	496.8	379.9	321.4	301.0	303.9	301.0	301.0
47.5°	4099.9	3214.4	1525.4	748.1	493.9	374.0	312.7	286.4	286.4	283.5	283.5
50°	4351.2	3372.2	1531.2	739.3	488.0	362.4	298.1	274.7	268.8	263.0	265.9
52.5°	4587.9	3518.3	1534.2	724.7	470.5	344.8	286.4	260.1	251.3	242.5	245.5
55°	4824.6	3658.6	1540.0	707.2	447.1	327.3	271.8	245.5	233.8	222.1	222.1
57.5°	5037.9	3781.3	1525.4	663.3	420.8	309.8	257.2	227.9	210.4	198.7	198.7
60°	5184.0	3869.0	1481.6	599.1	385.7	289.3	242.5	210.4	189.9	181.2	181.2
62.5°	5254.1	3883.6	1402.7	493.9	341.9	268.8	225.0	192.9	175.3	169.5	169.5
65°	5186.9	3819.3	1279.9	371.1	295.1	245.5	207.5	178.3	160.7	146.1	146.1
67.5°	4953.1	3638.2	1110.4	280.5	251.3	222.1	189.9	163.6	143.2	131.5	131.5
70°	4482.7	3261.2	859.1	225.0	213.3	192.9	172.4	146.1	128.6	114.0	114.0
72.5°	3866.1	2764.4	604.9	181.2	181.2	163.6	146.1	128.6	111.0	99.4	99.4
75°	2966.0	2045.5	406.2	146.1	149.0	137.3	119.8	105.2	93.5	84.7	84.7
77.5°	1618.9	1011.1	248.4	108.1	111.0	105.2	93.5	84.7	78.9	70.1	70.1
80°	786.1	444.2	143.2	76.0	78.9	76.0	70.1	61.4	61.4	55.5	55.5
82.5°	330.2	166.6	76.0	52.6	52.6	46.8	43.8	43.8	43.8	40.9	40.9
85°	81.8	32.1	32.1	29.2	29.2	29.2	26.3	26.3	26.3	20.5	23.4
87.5°	11.7	11.7	11.7	11.7	11.7	11.7	8.8	2.9	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)