

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1209248

Luminaire Tested: UPW-SA2-110-727-U-T4FT-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-727-U-T4FT-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THF OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8766 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

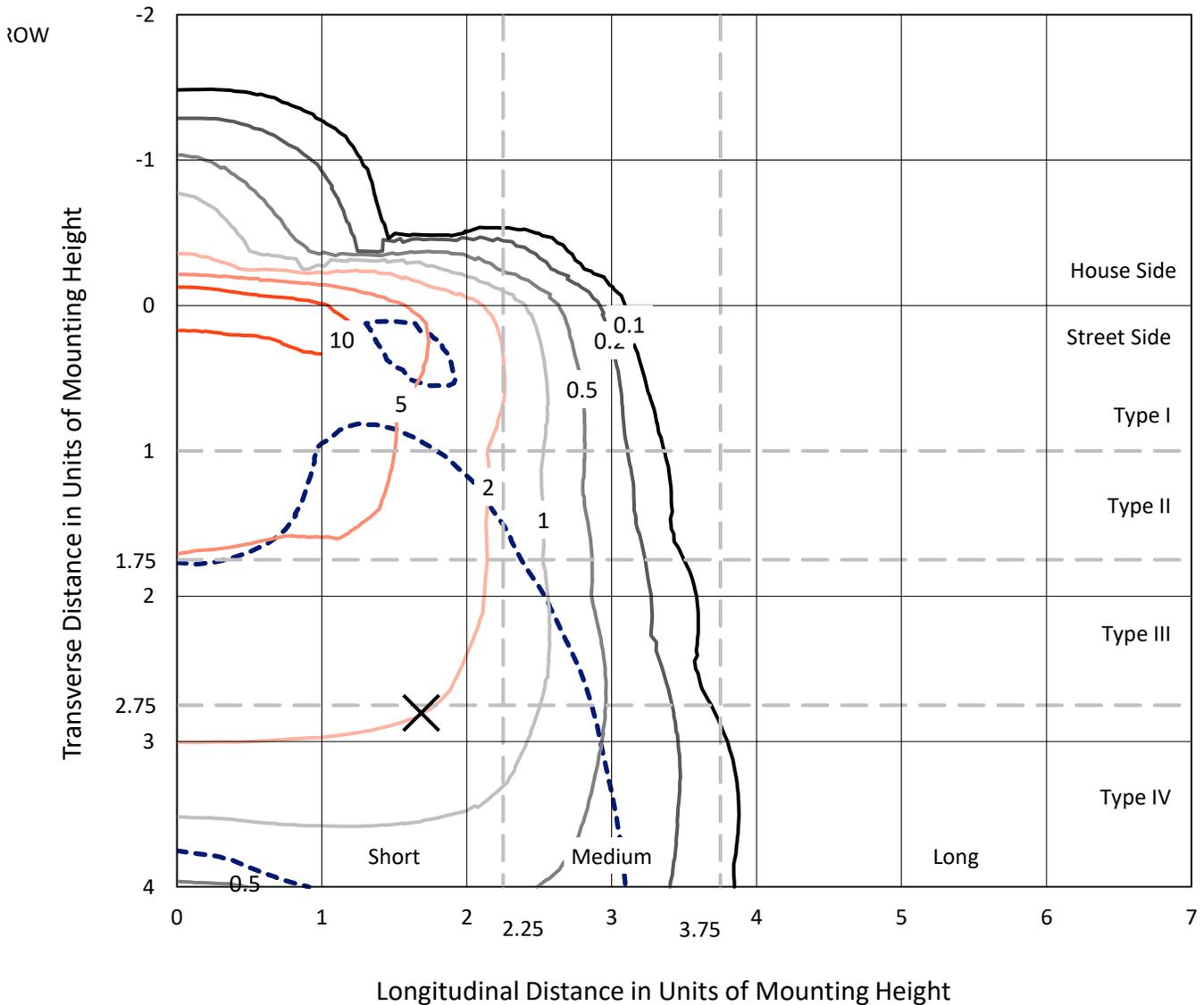
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P1209248
 CATALOG NUMBER: UPW-SA2-110-727-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

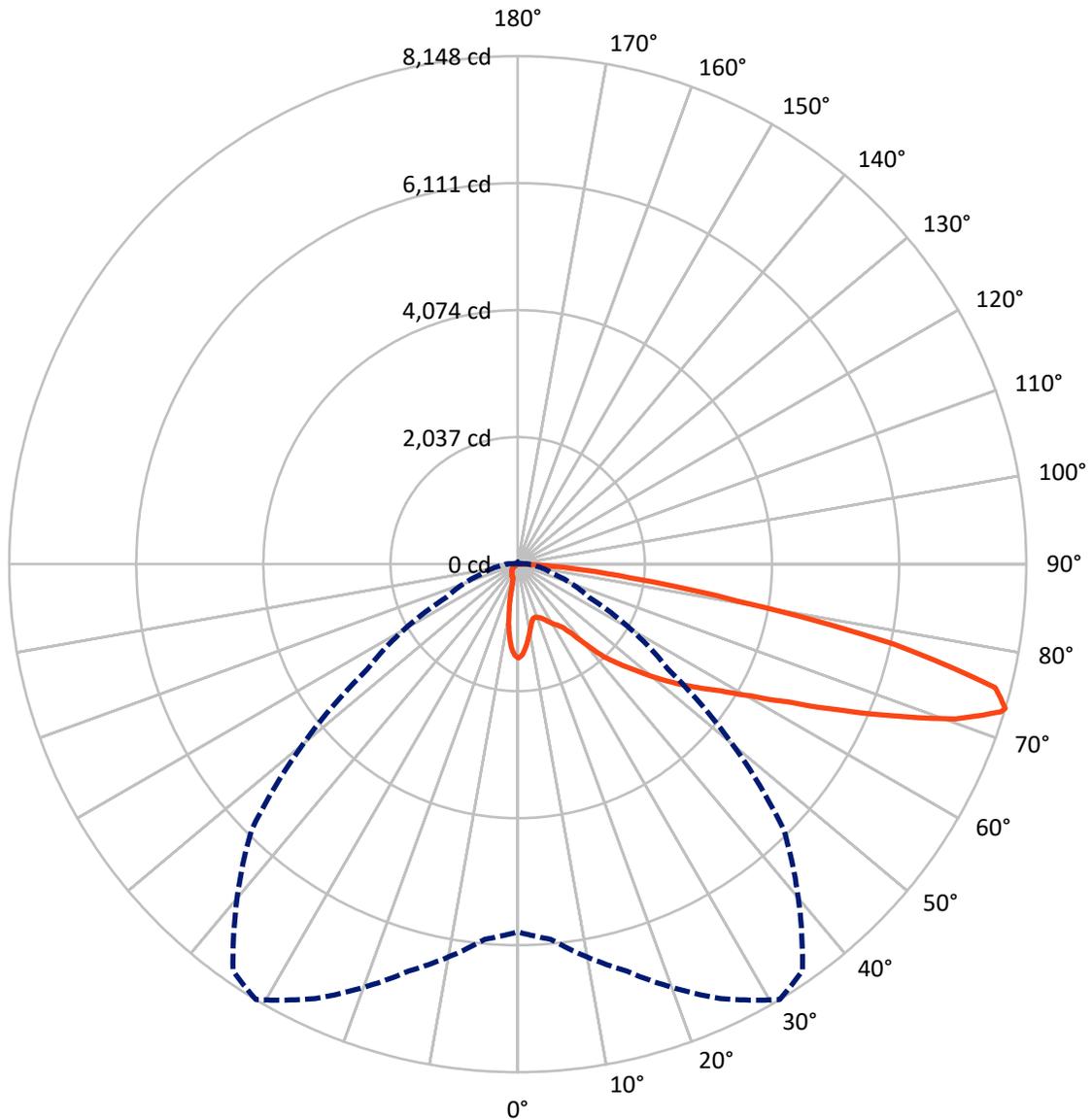
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P1209248
CATALOG NUMBER: UPW-SA2-110-727-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P1209248

CATALOG NUMBER: UPW-SA2-110-727-U-T4FT-HSS

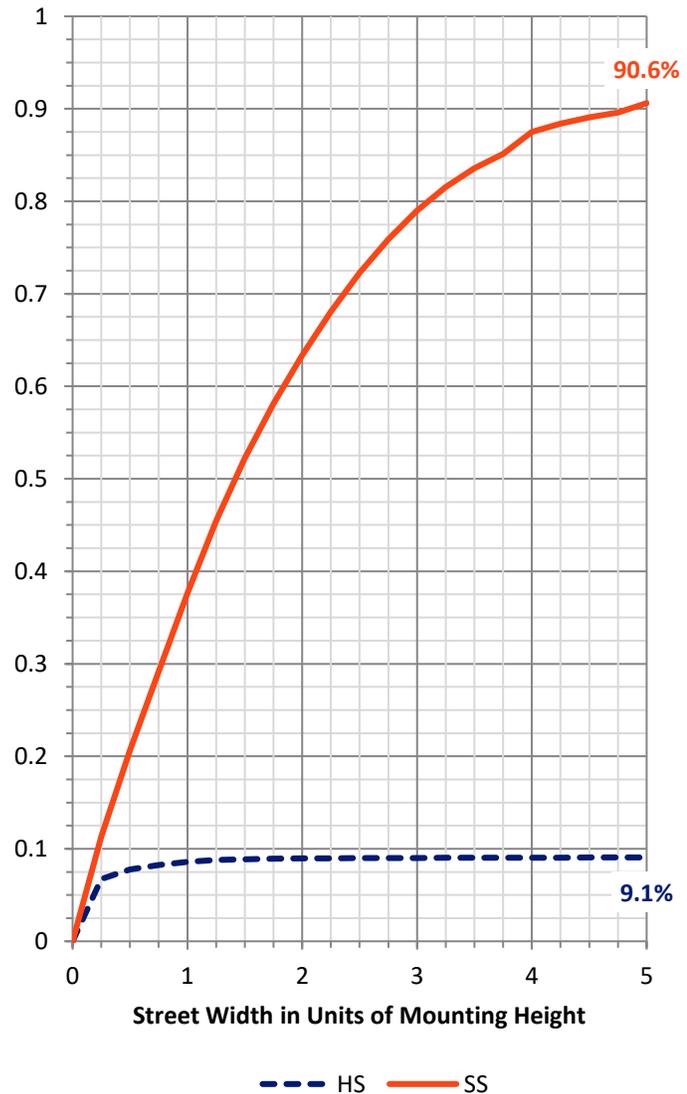
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	799.1	0.0	799.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	7966.9	0.0	7966.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	8766.0	0.0	8766.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	1.4
10°-20°	271.5	3.1
20°-30°	406.8	4.6
30°-40°	647.3	7.4
40°-50°	1155.8	13.2
50°-60°	1793.5	20.5
60°-70°	2384.2	27.2
70°-80°	1793.4	20.5
80°-90°	188.4	2.1
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°	8766.0	100.0
0°-180°	8766.0	100.0



REPORT NUMBER: P1209248

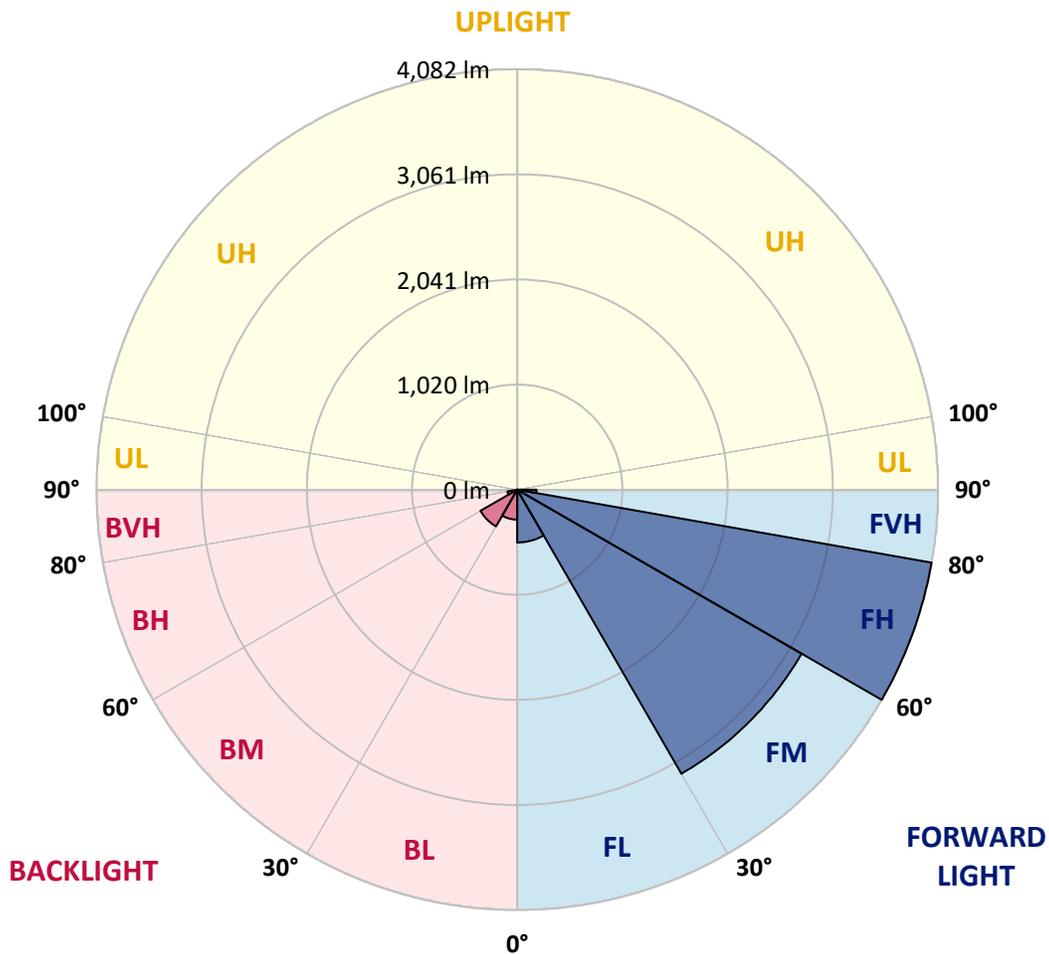
CATALOG NUMBER: UPW-SA2-110-727-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	512.8	5.9			
FM	(30°-60°)	3185.3	36.3			
FH	(60°-80°)	4082.0	46.6			G2/5000
FVH	(80°-90°)	186.9	2.1			G2/225
BL	(0°-30°)	290.6	3.3	B1/500		
BM	(30°-60°)	411.3	4.7	B1/1000		
BH	(60°-80°)	95.6	1.1	B0/110		G0/110
BVH	(80°-90°)	1.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P1209248

CATALOG NUMBER: UPW-SA2-110-727-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2
2.5°	1429.3	1435.3	1441.7	1443.0	1453.7	1454.2	1469.6	1481.2	1492.8	1503.9	1507.8
5°	1282.6	1292.4	1304.0	1315.6	1338.3	1347.3	1385.1	1423.7	1460.6	1495.8	1512.9
7.5°	1126.0	1137.2	1153.5	1182.2	1207.5	1225.1	1284.7	1353.4	1422.0	1486.8	1524.1
10°	983.2	993.5	1010.6	1041.1	1080.1	1104.1	1184.3	1279.6	1380.4	1478.6	1540.8
12.5°	892.2	897.8	907.2	939.8	975.0	1002.0	1096.4	1214.4	1346.1	1478.2	1567.8
15°	875.5	877.2	869.5	884.1	911.5	937.7	1033.4	1161.6	1319.9	1485.0	1603.0
17.5°	902.1	901.2	875.5	873.8	895.7	917.1	1002.5	1125.2	1301.5	1500.9	1648.5
20°	942.4	939.4	894.8	886.7	909.8	930.0	1000.3	1111.4	1294.6	1527.5	1703.8
22.5°	996.0	990.9	921.0	912.4	937.3	958.3	1026.9	1124.7	1300.6	1563.1	1768.2
25°	1062.5	1054.8	966.0	956.6	981.9	1002.9	1074.5	1162.9	1318.6	1606.4	1849.7
27.5°	1137.6	1126.4	1038.1	1013.6	1042.4	1064.2	1138.0	1221.2	1346.9	1652.3	1949.6
30°	1208.4	1193.8	1114.0	1073.7	1108.9	1133.3	1206.7	1290.7	1392.4	1723.1	2086.4
32.5°	1279.6	1263.3	1181.8	1133.7	1165.5	1192.1	1277.4	1386.4	1477.8	1831.2	2268.3
35°	1443.4	1426.3	1326.3	1247.0	1246.5	1261.6	1376.5	1517.2	1590.6	1981.8	2485.4
37.5°	1719.3	1709.4	1614.2	1463.6	1423.3	1406.5	1511.6	1673.4	1752.7	2189.0	2730.3
40°	2021.2	2012.7	1905.9	1769.4	1708.1	1666.9	1705.5	1890.8	1981.8	2442.0	2980.4
42.5°	2362.3	2321.5	2131.1	2090.3	2035.4	2004.1	1969.3	2158.9	2263.2	2717.4	3228.3
45°	2672.0	2603.3	2356.3	2294.5	2282.0	2289.8	2309.1	2519.3	2579.7	3044.7	3475.4
47.5°	2856.4	2802.4	2612.8	2553.6	2550.1	2601.2	2747.0	2926.3	2895.0	3330.0	3692.9
50°	3031.9	2983.0	2825.5	2840.1	2856.0	2925.5	3244.2	3345.0	3182.9	3588.6	3892.3
52.5°	3173.8	3099.2	3016.8	3098.8	3176.8	3288.8	3757.2	3720.8	3387.0	3794.5	4063.1
55°	3255.8	3221.9	3261.8	3344.1	3490.8	3672.7	4241.5	4033.5	3536.3	3982.4	4176.7
57.5°	3556.0	3489.6	3568.9	3640.1	3831.4	4085.8	4656.3	4266.4	3644.0	4098.7	4202.9
60°	3919.4	3865.7	3912.5	4030.9	4289.1	4588.1	5044.1	4456.4	3700.2	4173.3	4135.1
62.5°	4497.6	4426.8	4397.7	4530.2	4872.5	5198.9	5338.4	4588.1	3687.7	4140.3	3902.6
65°	5272.3	5198.9	5068.5	5188.6	5624.0	5854.4	5667.4	4616.0	3601.9	3873.0	3315.0
67.5°	6065.9	6012.7	5901.1	6103.6	6496.5	6570.7	6015.2	4548.2	3325.7	3140.4	2342.1
70°	6590.0	6567.3	6639.8	7087.6	7438.1	7416.6	6334.4	4184.0	2592.2	1931.2	1158.6
72.5°	6212.1	6321.1	6856.4	7668.4	8096.5	7921.5	6170.5	3212.9	1481.6	743.0	335.0
73°	5899.0	6038.4	6759.1	7690.3	8148.4	7956.7	6032.8	2949.1	1262.8	586.4	253.9
75°	4103.8	4275.0	5595.7	7162.3	7905.7	7580.9	5028.6	1805.0	585.1	259.9	102.5
77.5°	1992.5	2119.0	3081.2	5174.9	6148.2	5923.0	3130.5	672.6	264.2	162.6	47.2
80°	743.8	827.0	1337.5	2633.8	3553.0	3646.1	1376.9	254.4	175.9	130.8	24.0
82.5°	194.7	217.1	493.3	1174.5	1820.9	1905.9	434.1	128.3	128.7	107.7	14.6
85°	62.2	71.2	154.0	527.2	857.9	753.2	113.2	62.2	93.5	80.2	8.2
87.5°	7.7	9.9	48.9	124.0	189.2	105.1	17.6	18.4	39.9	44.6	4.7
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: P1209248

CATALOG NUMBER: UPW-SA2-110-727-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2
2.5°	1511.6	1509.5	1509.9	1498.8	1491.5	1476.9	1461.9	1455.0	1447.7	1444.7	1447.7
5°	1519.4	1515.5	1504.3	1470.0	1433.6	1386.4	1342.2	1308.7	1266.7	1255.1	1267.1
7.5°	1531.4	1523.7	1491.1	1421.1	1340.1	1250.0	1148.7	1075.0	1014.5	975.4	989.6
10°	1549.0	1534.4	1468.7	1349.9	1204.9	1045.4	901.7	789.7	710.4	677.8	676.5
12.5°	1578.6	1551.1	1441.3	1257.3	1039.8	827.0	638.7	517.3	453.0	411.4	410.5
15°	1611.2	1570.8	1406.5	1146.2	847.6	592.4	411.4	319.1	277.5	264.2	262.5
17.5°	1651.1	1593.6	1361.5	1009.3	646.4	392.5	268.5	241.9	240.2	238.9	238.9
20°	1701.2	1620.6	1303.6	852.8	458.6	262.1	228.2	229.9	230.8	229.1	229.5
22.5°	1759.6	1648.0	1234.5	684.6	310.1	219.2	218.3	220.5	221.3	220.5	220.9
25°	1827.4	1679.8	1150.5	508.3	223.9	208.0	210.2	213.2	215.3	215.3	215.3
27.5°	1911.4	1718.4	1049.2	354.7	193.5	196.5	202.5	208.0	211.0	211.9	211.9
30°	2020.8	1766.4	927.8	243.2	175.9	181.0	192.2	202.9	208.5	209.3	209.8
32.5°	2158.9	1820.5	787.1	179.7	160.9	164.7	176.7	194.7	205.5	207.2	207.2
35°	2317.2	1883.1	635.7	156.6	150.1	151.4	160.9	181.4	200.3	205.0	205.5
37.5°	2490.5	1944.9	483.4	146.3	141.1	141.1	148.0	165.6	187.9	202.5	204.2
40°	2652.2	1982.2	338.9	138.1	133.0	133.0	139.0	151.9	172.9	194.7	199.5
42.5°	2801.5	1995.1	235.9	130.4	125.3	126.5	131.7	142.0	157.9	179.7	184.0
45°	2955.1	1992.9	172.0	121.4	117.5	121.4	125.3	133.0	144.6	157.0	157.9
47.5°	3070.9	1974.9	136.4	112.8	110.2	115.4	118.8	124.0	130.4	129.5	129.5
50°	3179.4	1931.2	109.8	101.2	102.9	109.0	110.7	112.4	112.8	104.7	103.8
52.5°	3261.8	1863.0	87.9	88.8	95.7	101.7	99.9	97.4	93.1	83.2	81.5
55°	3289.2	1731.7	69.1	73.4	84.9	92.7	86.2	80.6	72.5	64.3	62.6
57.5°	3239.5	1562.3	56.2	57.1	71.6	78.1	70.8	64.3	55.3	48.5	47.2
60°	3134.0	1373.9	46.3	42.9	55.3	60.9	56.2	49.8	41.6	36.5	36.0
62.5°	2924.6	1173.2	38.2	33.5	42.0	46.8	43.8	39.0	32.2	28.7	28.3
65°	2484.5	938.6	30.9	27.0	32.6	36.5	33.9	30.5	25.3	22.7	22.3
67.5°	1734.3	634.4	25.3	22.3	25.7	28.7	26.6	24.9	20.2	19.7	20.2
70°	836.5	305.8	21.0	18.0	20.2	22.3	21.4	20.2	19.3	22.3	25.7
72.5°	239.8	102.5	16.7	15.0	16.3	17.6	18.4	18.0	21.0	27.0	31.3
73°	184.5	82.8	15.9	14.2	15.4	17.2	18.0	17.6	21.4	27.5	31.3
75°	78.9	39.9	12.0	11.6	12.9	15.0	15.9	15.9	21.4	27.9	30.0
77.5°	35.6	21.4	7.7	9.0	11.2	12.0	13.3	13.3	17.2	21.4	21.4
80°	20.2	11.6	6.0	6.9	8.2	8.2	8.2	7.3	7.7	8.6	9.4
82.5°	12.9	7.7	4.7	5.6	5.1	4.3	3.4	3.4	3.0	3.4	4.3
85°	7.3	4.3	4.3	3.4	2.1	1.7	2.1	1.7	0.4	0.0	0.4
87.5°	4.3	2.6	1.3	0.0	0.0	0.0	0.0	0.0	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)