

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: P1209003

Luminaire Tested: UPW-SA2-090-727-U-T3R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-727-U-T3R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTI
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7671 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

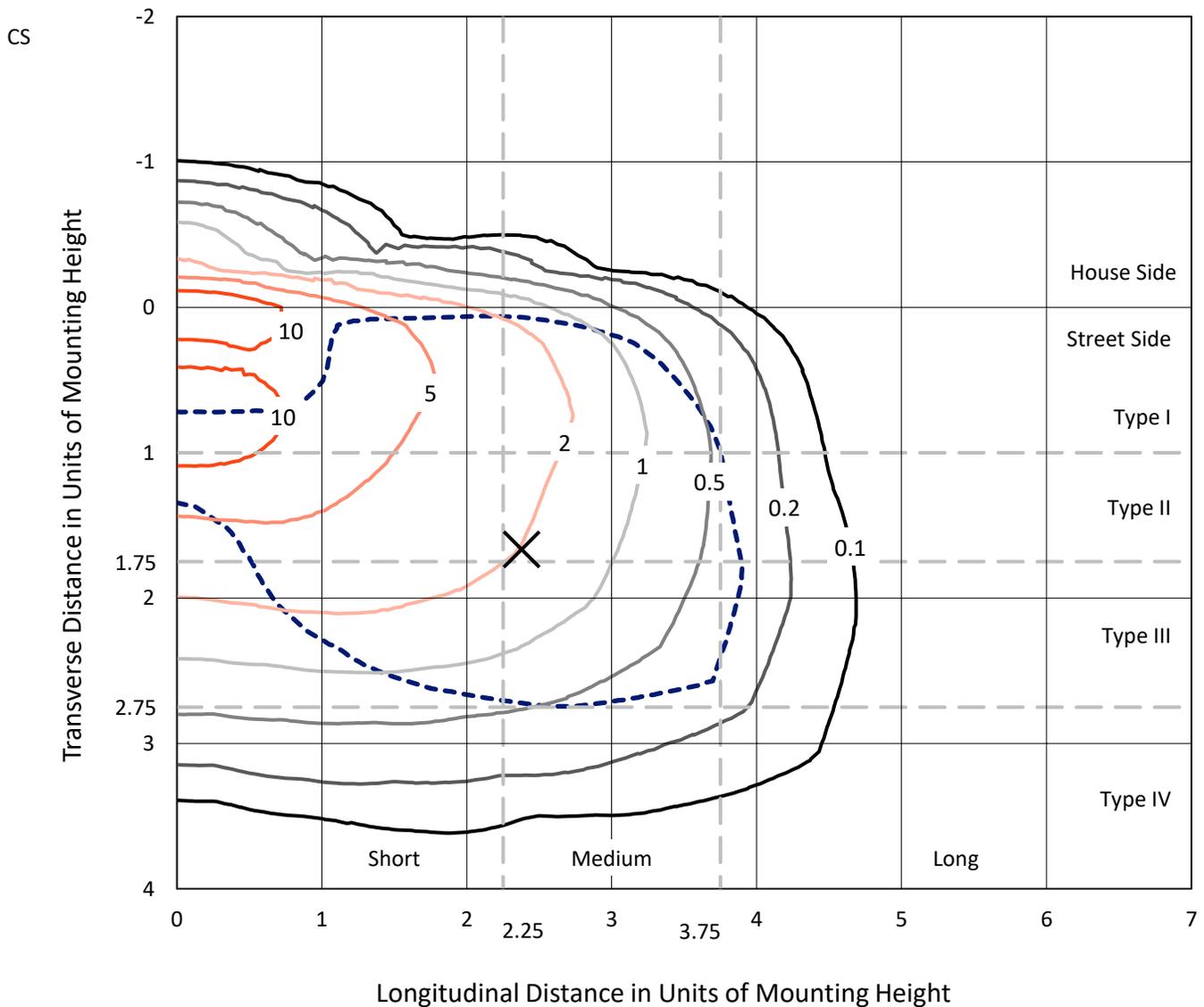
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P1209003
 CATALOG NUMBER: UPW-SA2-090-727-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

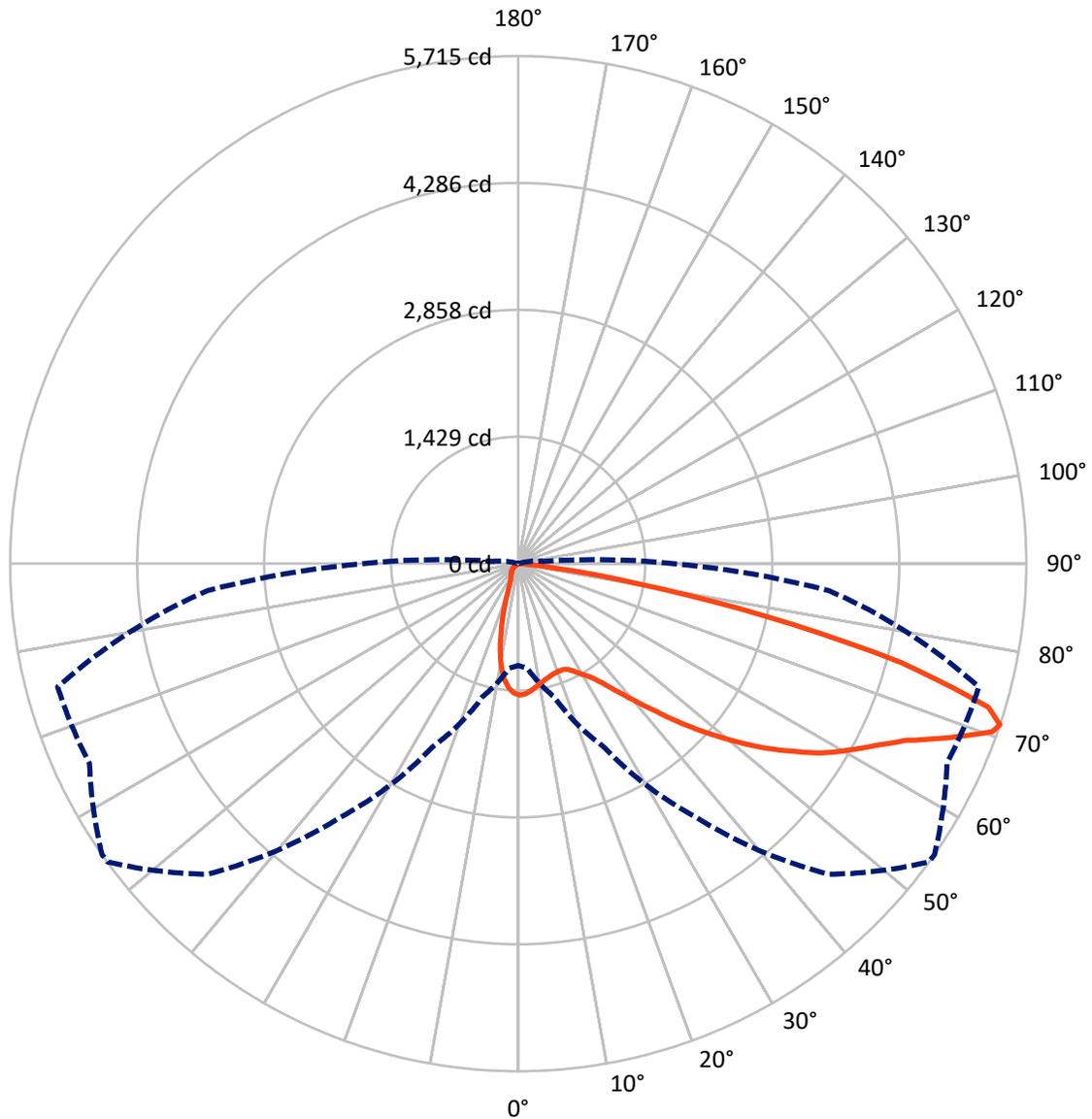
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P1209003
CATALOG NUMBER: UPW-SA2-090-727-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P1209003

CATALOG NUMBER: UPW-SA2-090-727-U-T3R-HSS

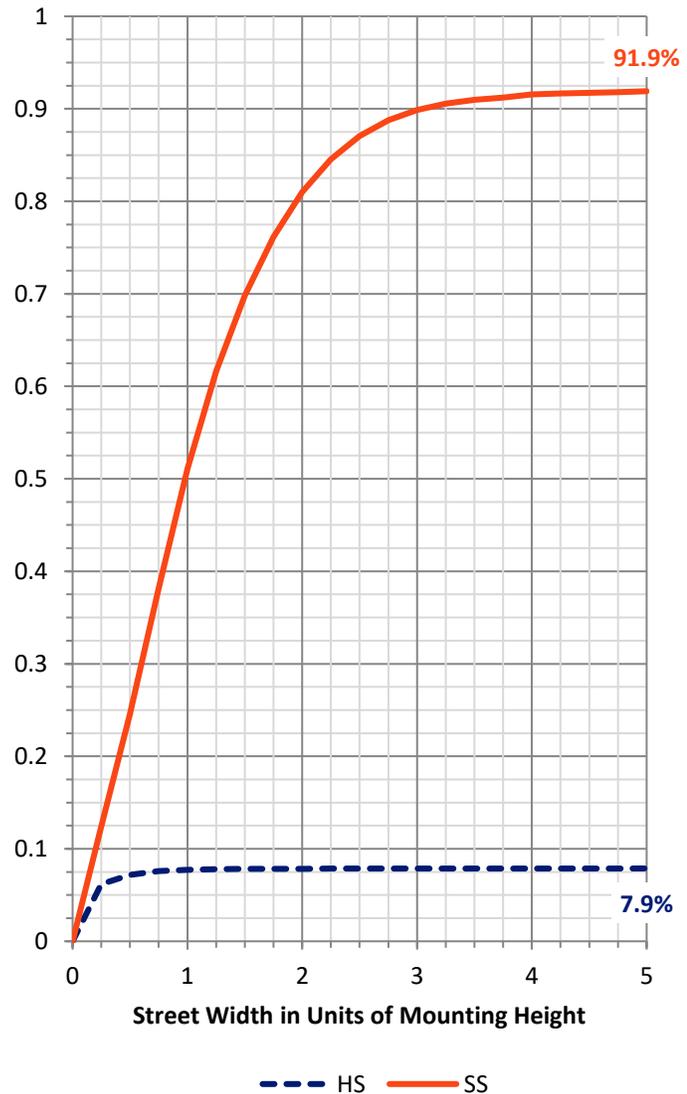
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	607.3	0.0	607.3
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	7063.7	0.0	7063.7
	% Fixture	92.1	0.0	92.1
Total	Lumens	7671.0	0.0	7671.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	1.6
10°-20°	284.8	3.7
20°-30°	457.6	6.0
30°-40°	777.5	10.1
40°-50°	1206.8	15.7
50°-60°	1622.5	21.2
60°-70°	1984.9	25.9
70°-80°	1160.5	15.1
80°-90°	50.2	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°	7671.0	100.0
0°-180°	7671.0	100.0



REPORT NUMBER: P1209003

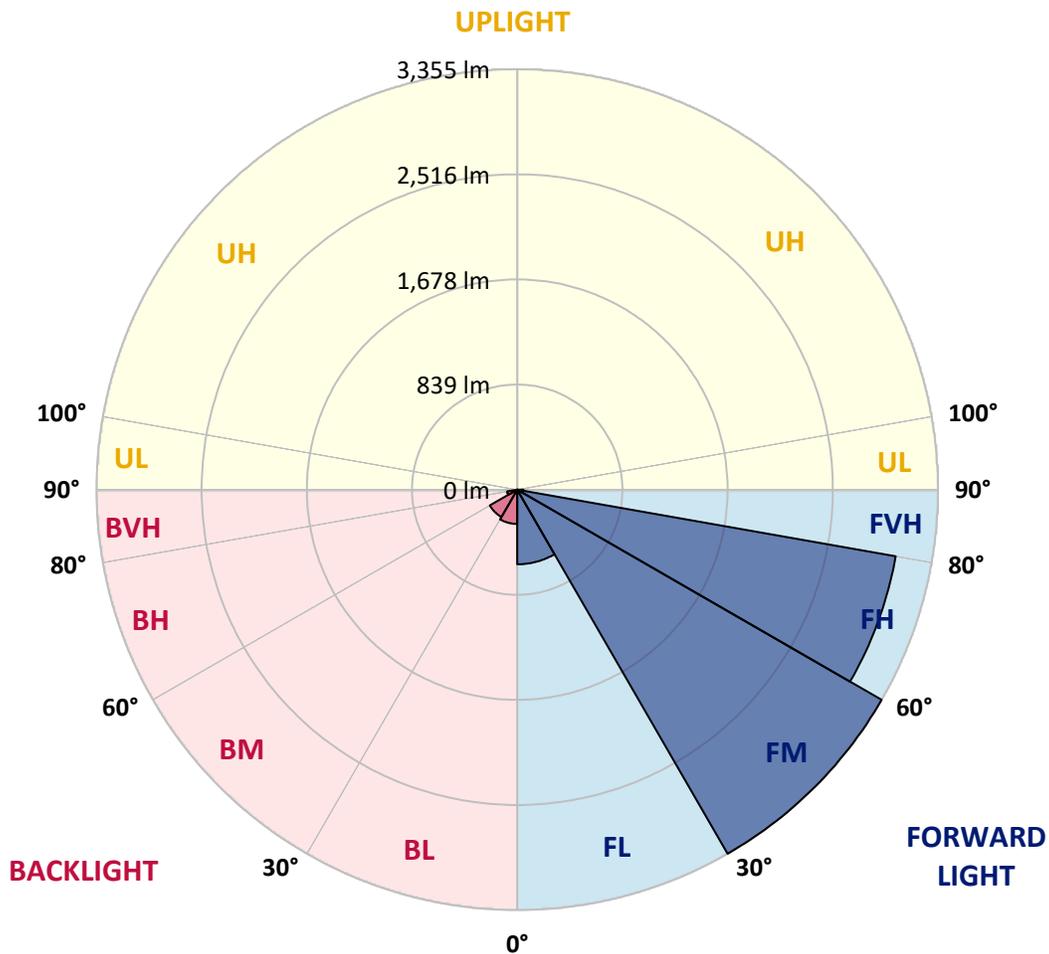
CATALOG NUMBER: UPW-SA2-090-727-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	595.2	7.8			
FM (30°-60°)	3355.1	43.7			
FH (60°-80°)	3064.1	39.9			G2/5000
FVH (80°-90°)	49.4	0.6			G1/100
BL (0°-30°)	273.4	3.6	B1/500		
BM (30°-60°)	251.8	3.3	B1/1000		
BH (60°-80°)	81.4	1.1	B0/110		G0/110
BVH (80°-90°)	0.8	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 III Medium





REPORT NUMBER: P1209003

CATALOG NUMBER: UPW-SA2-090-727-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1479.4	1479.4	1479.4	1479.4	1479.4	1479.4	1479.4	1479.4	1479.4	1479.4	1479.4
2.5°	1436.0	1437.7	1443.9	1446.7	1453.2	1464.2	1469.7	1470.1	1479.0	1482.5	1485.2
5°	1334.4	1344.7	1355.0	1366.1	1386.0	1412.6	1438.7	1441.1	1470.1	1491.4	1502.8
7.5°	1246.9	1256.2	1268.6	1286.1	1314.4	1356.1	1399.8	1405.0	1459.7	1508.3	1533.8
10°	1157.0	1164.6	1182.5	1208.3	1247.2	1303.0	1361.9	1370.5	1450.4	1531.0	1575.8
12.5°	1060.9	1065.4	1087.1	1124.3	1181.4	1252.4	1329.9	1341.3	1444.6	1557.2	1625.4
15°	987.9	989.9	1010.6	1049.2	1114.6	1206.9	1305.1	1318.9	1446.0	1588.6	1679.5
17.5°	969.3	970.3	981.3	1007.8	1065.7	1166.3	1285.5	1302.3	1450.1	1619.2	1733.9
20°	1044.7	1037.5	1026.1	1022.0	1046.8	1141.8	1273.7	1292.7	1455.6	1646.4	1782.8
22.5°	1251.7	1230.3	1183.2	1120.1	1081.9	1143.5	1276.8	1295.8	1473.2	1679.8	1839.3
25°	1558.9	1529.3	1449.1	1325.1	1205.9	1193.1	1302.7	1322.0	1507.3	1719.8	1893.4
27.5°	1908.6	1879.3	1781.1	1604.1	1400.8	1291.3	1361.9	1379.8	1557.9	1755.3	1934.7
30°	2243.4	2235.1	2119.4	1918.2	1646.1	1450.4	1438.4	1453.5	1595.5	1776.6	1967.5
32.5°	2527.2	2514.1	2421.1	2225.4	1926.8	1641.6	1528.3	1532.8	1623.7	1804.2	2010.2
35°	2790.3	2774.1	2692.5	2507.5	2214.8	1875.1	1666.8	1660.2	1685.4	1859.6	2072.2
37.5°	3020.1	3034.9	2944.3	2768.3	2473.1	2118.0	1853.4	1833.8	1781.8	1949.9	2162.1
40°	3212.3	3212.3	3165.1	3018.3	2752.1	2369.1	2064.6	2038.8	1926.8	2089.0	2276.1
42.5°	3281.5	3296.3	3313.9	3230.9	3001.8	2630.2	2299.8	2273.0	2131.1	2286.4	2420.1
45°	3285.6	3309.1	3399.0	3398.6	3227.4	2889.5	2565.1	2552.3	2392.8	2539.9	2598.5
47.5°	3227.4	3256.7	3404.8	3488.9	3406.2	3131.0	2855.1	2839.2	2700.4	2850.6	2785.2
50°	3137.5	3169.9	3342.1	3524.3	3527.8	3341.1	3160.6	3136.8	3039.0	3205.7	2978.0
52.5°	2976.7	3039.4	3286.0	3532.6	3607.7	3522.6	3451.3	3441.0	3417.9	3547.8	3131.7
55°	2632.6	2702.2	3145.1	3535.4	3681.7	3683.5	3723.8	3726.5	3773.0	3867.4	3246.0
57.5°	2470.0	2509.3	2899.2	3548.4	3791.6	3866.0	4001.4	4022.7	4094.7	4170.9	3376.6
60°	2367.7	2414.2	2777.9	3530.5	3964.2	4105.4	4258.7	4265.9	4343.1	4484.0	3553.3
62.5°	2286.1	2331.9	2701.5	3461.6	4158.1	4393.4	4510.1	4510.8	4568.7	4857.0	3754.1
65°	2084.6	2123.1	2546.8	3384.1	4286.2	4678.2	4802.2	4797.7	4844.9	5250.3	3987.3
67.5°	1793.2	1822.8	2231.0	3090.3	4238.0	4937.2	5243.1	5228.3	5171.1	5590.3	4078.9
70°	1386.4	1397.1	1758.4	2575.4	3786.1	5036.8	5669.2	5661.6	5371.2	5529.3	3743.1
71°	1146.0	1181.1	1549.6	2273.0	3483.3	4944.8	5710.5	5715.0	5320.9	5363.3	3511.9
72.5°	665.5	695.4	1123.2	1745.6	2957.4	4561.1	5496.3	5528.6	5086.0	4878.3	2999.7
75°	142.6	152.6	416.4	844.9	1626.8	3196.8	4338.3	4453.6	4145.4	3318.7	1808.0
77.5°	99.2	107.1	178.4	383.4	537.7	1579.6	2694.9	2825.1	2476.5	1247.2	578.7
80°	78.5	87.5	139.2	189.4	145.4	509.4	1262.4	1341.9	826.0	278.3	97.5
82.5°	43.7	52.0	108.5	102.3	55.8	96.8	353.4	399.6	165.3	56.1	23.1
85°	12.7	15.5	69.9	74.4	23.8	18.6	60.3	74.7	31.3	14.8	10.3
87.5°	0.0	0.0	33.8	28.6	6.9	2.8	5.5	6.2	6.2	6.2	6.9
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: P1209003

CATALOG NUMBER: UPW-SA2-090-727-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1479.4	1479.4	1479.4	1479.4	1479.4	1479.4	1479.4	1479.4	1479.4	1479.4	1479.4
2.5°	1485.2	1487.6	1479.0	1467.7	1455.6	1440.8	1425.3	1413.2	1412.9	1407.0	1401.2
5°	1503.5	1502.1	1478.3	1442.2	1399.5	1355.0	1312.7	1264.8	1248.9	1229.3	1222.8
7.5°	1537.2	1527.6	1477.3	1398.1	1304.4	1211.4	1115.3	1018.5	977.2	940.0	933.4
10°	1579.6	1561.4	1470.8	1332.0	1160.1	988.5	843.5	712.0	654.1	609.7	607.6
12.5°	1623.7	1595.8	1452.5	1232.1	971.0	729.9	562.8	433.3	385.1	354.1	356.8
15°	1669.9	1628.2	1413.2	1097.4	755.7	495.3	345.8	269.7	250.4	242.5	244.6
17.5°	1717.0	1650.6	1358.5	935.2	543.2	319.6	239.4	218.0	218.0	219.8	220.4
20°	1758.0	1662.6	1277.9	753.3	368.2	232.8	209.4	206.3	208.0	210.8	211.1
22.5°	1798.7	1663.3	1172.8	569.0	257.6	203.9	199.4	198.1	199.1	202.2	202.5
25°	1831.7	1655.0	1041.2	404.7	205.6	192.2	190.1	189.4	190.1	193.9	193.9
27.5°	1845.2	1625.1	880.7	284.5	184.3	179.1	178.4	179.1	180.1	182.9	183.2
30°	1846.6	1572.7	705.8	206.0	167.1	161.5	162.9	165.3	164.3	163.6	164.3
32.5°	1850.0	1512.1	535.3	169.5	152.6	144.0	142.3	142.3	138.1	135.7	134.3
35°	1861.4	1440.8	388.2	152.2	137.8	127.8	121.2	113.7	105.7	101.6	100.6
37.5°	1879.3	1366.1	278.0	140.9	124.7	113.3	100.9	87.5	76.1	73.0	73.0
40°	1912.0	1288.9	205.6	131.9	114.4	100.2	81.6	64.1	53.7	52.0	52.0
42.5°	1963.7	1207.6	164.0	124.0	105.4	86.8	62.3	46.5	38.9	37.9	37.5
45°	2017.4	1118.1	143.3	116.4	95.8	71.3	46.2	34.4	30.0	28.9	28.9
47.5°	2071.1	1022.6	133.3	109.2	86.5	55.5	34.4	27.2	25.1	25.1	25.5
50°	2116.6	923.1	126.1	101.3	74.4	42.0	27.2	23.1	22.4	23.8	24.1
52.5°	2128.0	825.3	117.1	91.3	59.6	32.0	22.4	20.3	20.3	20.3	20.3
55°	2121.1	749.5	105.4	78.9	44.1	25.5	19.3	17.9	17.6	17.6	17.6
57.5°	2144.5	704.7	84.4	61.3	31.7	20.7	16.9	15.8	15.2	14.8	14.8
60°	2191.7	675.5	60.3	44.1	23.8	17.2	14.5	13.4	12.4	11.7	11.7
62.5°	2254.4	650.0	44.8	32.7	18.3	13.8	12.1	11.0	9.6	9.0	9.0
65°	2302.6	604.5	34.1	24.5	13.8	11.0	9.3	9.0	6.9	6.2	5.9
67.5°	2228.9	504.6	27.6	17.9	10.3	8.6	7.2	6.9	4.1	3.4	3.4
70°	1911.7	351.3	22.0	13.1	7.6	6.9	5.9	4.5	3.1	2.8	2.8
71°	1733.6	293.5	20.0	11.0	6.5	6.5	5.5	3.8	2.8	2.4	2.4
72.5°	1440.1	208.4	16.9	8.6	5.9	6.9	5.9	3.4	2.8	2.4	2.1
75°	836.0	87.1	11.7	5.9	4.5	8.3	7.6	3.1	2.1	1.7	1.7
77.5°	251.4	32.0	6.5	3.8	3.4	7.2	8.6	2.8	1.0	0.3	0.3
80°	45.8	13.8	4.1	2.4	2.4	4.5	6.5	1.4	0.0	0.0	0.0
82.5°	16.2	6.9	2.4	1.4	1.0	2.1	3.1	0.0	0.0	0.0	0.0
85°	9.3	4.8	1.4	0.7	0.0	0.3	0.7	0.0	0.0	0.0	0.0
87.5°	6.2	1.4	0.0	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)