

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: P1209397

Luminaire Tested: UPW-SA2-110-827-U-SLL-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-947-2)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-827-U-SLL-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATING LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6861 lumens
Efficiency: N/A
Efficacy: 61.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

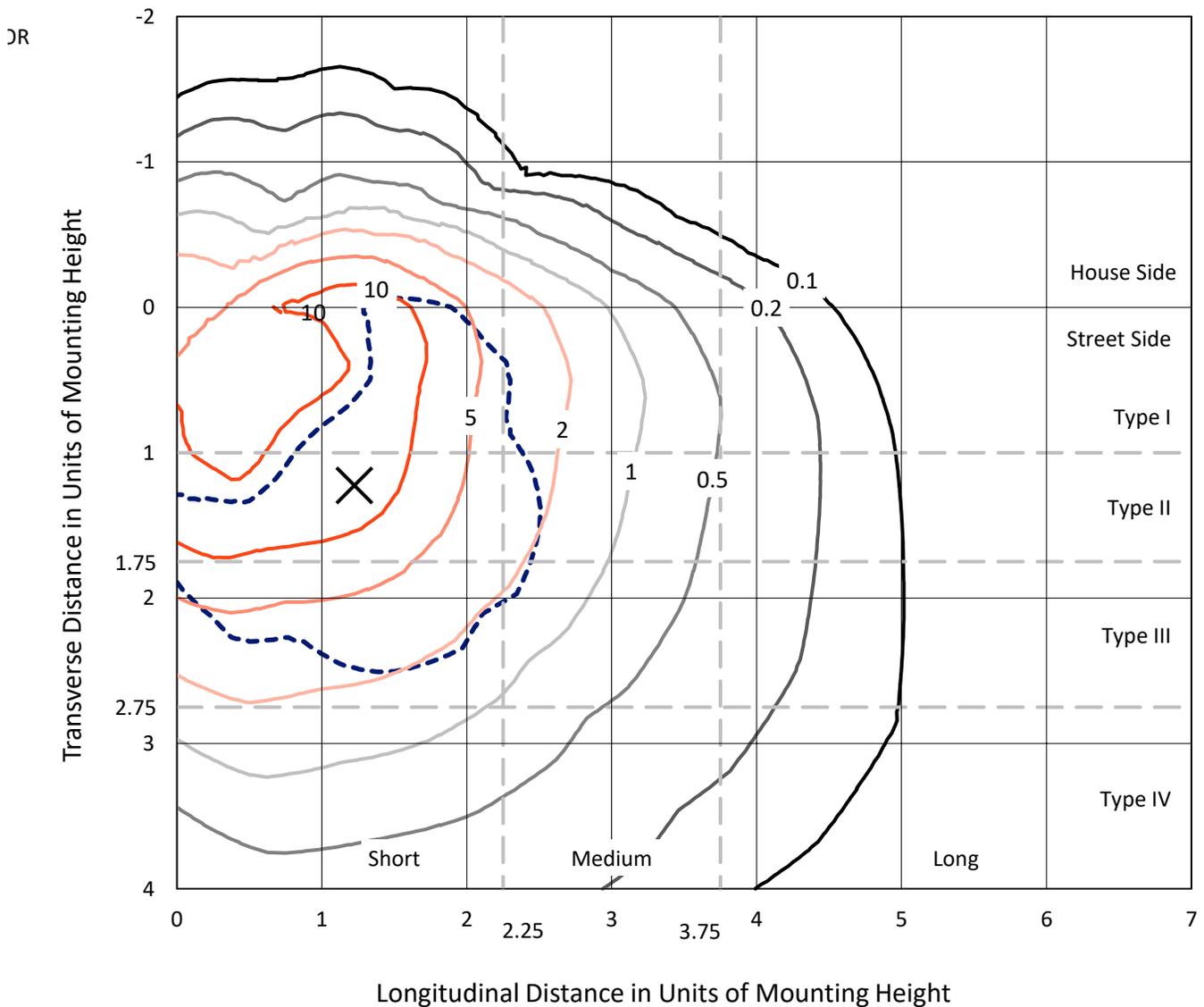
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P1209397
 CATALOG NUMBER: UPW-SA2-110-827-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

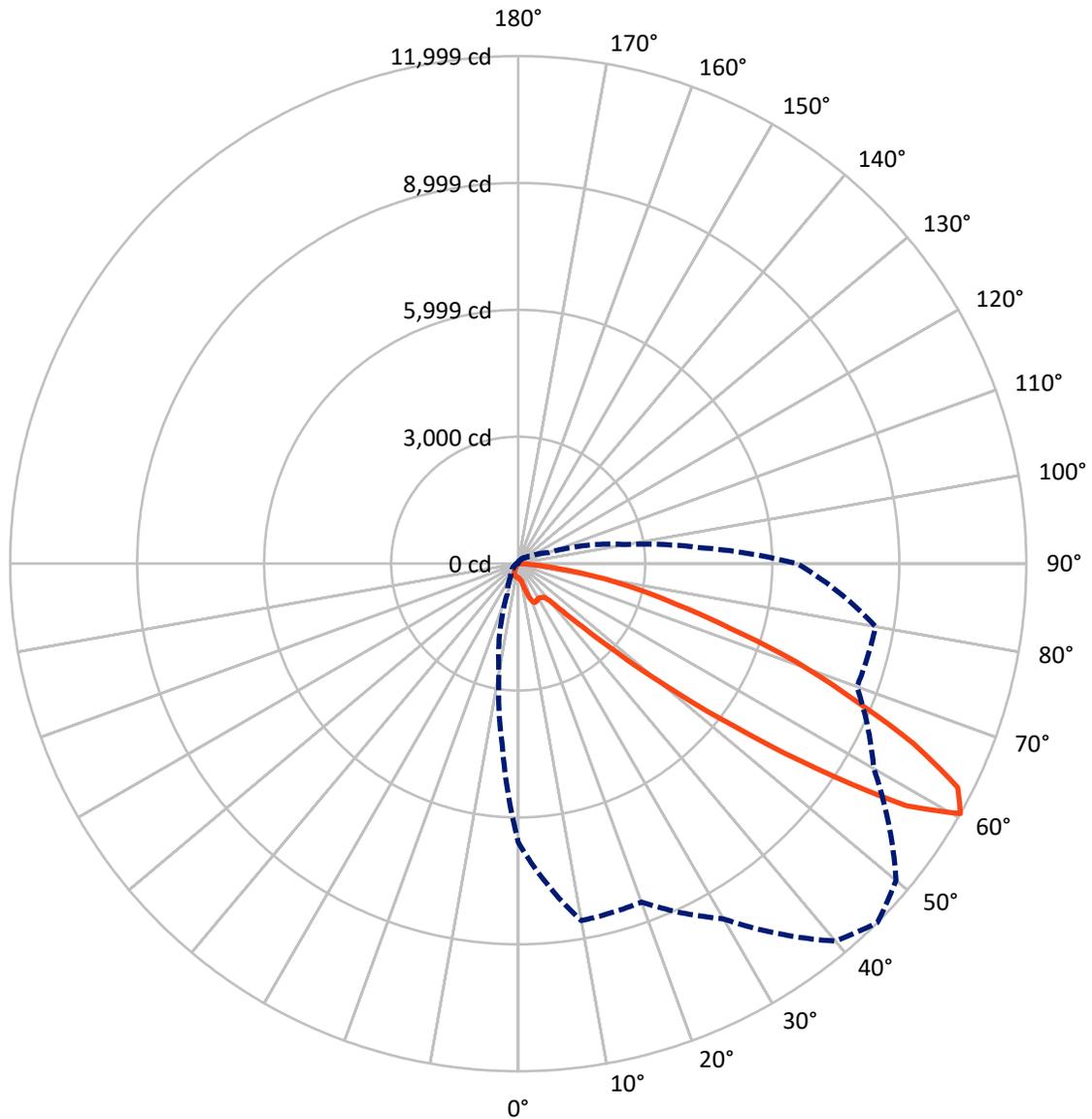
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.5 fc
 Type III - Short - N/A

REPORT NUMBER: P1209397
CATALOG NUMBER: UPW-SA2-110-827-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P1209397

CATALOG NUMBER: UPW-SA2-110-827-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	790.4	0.0	790.4
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	6070.6	0.0	6070.6
	% Fixture	88.5	0.0	88.5
Total	Lumens	6861.0	0.0	6861.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.2	0.5
10°-20°	105.9	1.5
20°-30°	228.6	3.3
30°-40°	385.2	5.6
40°-50°	777.9	11.3
50°-60°	2000.7	29.2
60°-70°	2175.2	31.7
70°-80°	1024.7	14.9
80°-90°	131.6	1.9
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°	6861.0	100.0
0°-180°	6861.0	100.0



REPORT NUMBER: P1209397

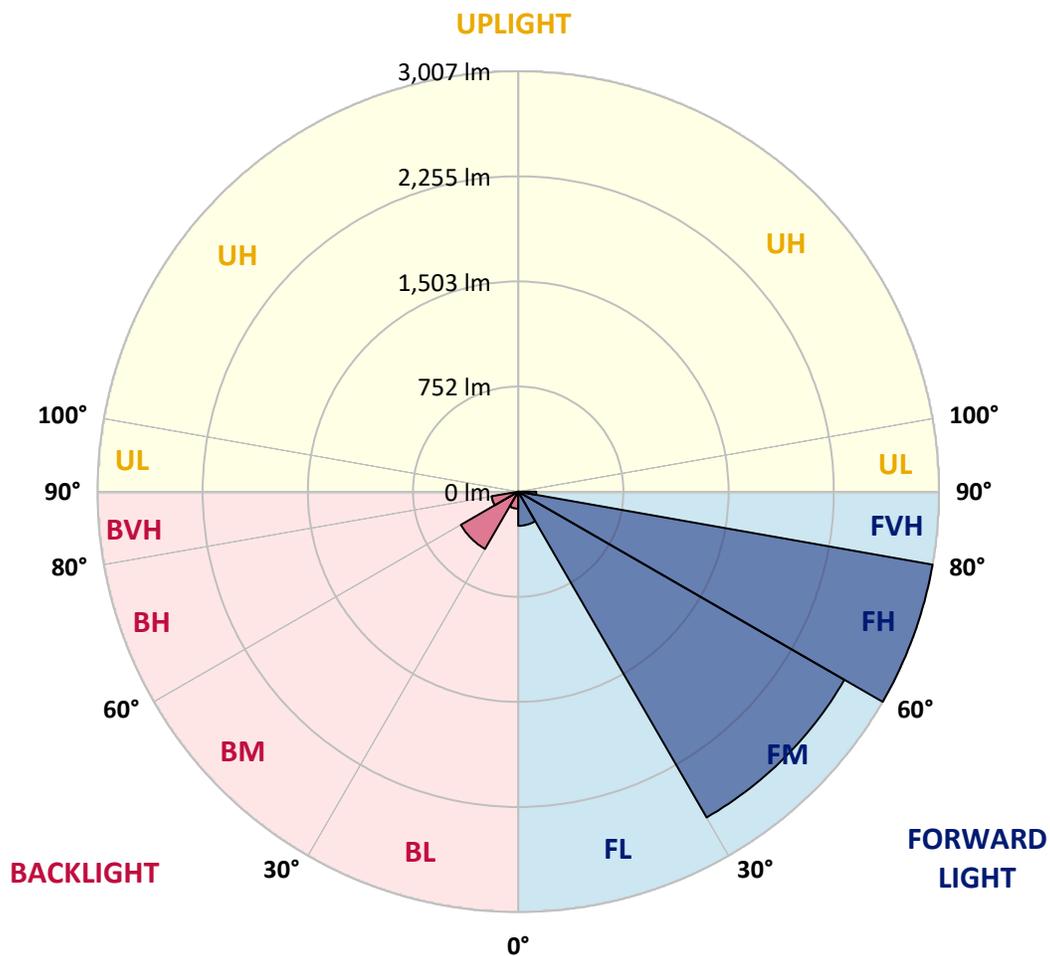
CATALOG NUMBER: UPW-SA2-110-827-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	244.2	3.6			
FM	(30°-60°)	2690.7	39.2			
FH	(60°-80°)	3006.5	43.8			G2/5000
FVH	(80°-90°)	129.2	1.9			G2/225
BL	(0°-30°)	121.5	1.8	B1/500		
BM	(30°-60°)	473.1	6.9	B1/1000		
BH	(60°-80°)	193.4	2.8	B1/500		G1/500
BVH	(80°-90°)	2.3	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 Short





REPORT NUMBER: P1209397

CATALOG NUMBER: UPW-SA2-110-827-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2
2.5°	343.6	344.6	345.7	347.2	348.8	349.5	350.3	350.7	351.0	348.2	351.0
5°	342.4	345.3	348.2	351.7	355.2	357.1	358.9	359.9	360.8	363.4	360.8
7.5°	331.3	338.8	346.1	352.9	359.6	364.8	370.1	374.5	379.0	382.0	379.0
10°	332.5	346.0	359.6	372.8	386.1	396.2	406.4	413.3	420.2	423.9	420.2
12.5°	357.0	379.0	400.9	423.0	445.1	466.0	486.8	500.7	514.5	524.1	514.5
15°	407.6	449.0	490.3	529.0	567.7	600.0	632.4	649.5	666.6	668.5	666.6
17.5°	510.1	570.5	631.0	682.3	733.7	768.1	802.4	818.8	835.3	839.7	835.3
20°	642.3	718.3	794.3	842.7	891.2	914.2	937.3	945.9	954.5	949.2	954.5
22.5°	797.8	878.3	959.1	992.2	1025.4	1023.2	1021.1	1013.9	1006.7	994.6	1006.7
25°	985.8	1052.8	1119.8	1112.8	1105.8	1077.4	1049.1	1025.1	1001.1	989.9	1001.1
27.5°	1177.4	1213.6	1249.9	1200.2	1150.6	1096.6	1042.6	1010.5	978.4	958.5	978.4
30°	1406.3	1382.9	1359.3	1271.0	1182.7	1114.3	1045.8	1007.8	969.9	946.8	969.9
32.5°	1646.2	1563.5	1480.8	1354.9	1228.9	1149.3	1069.7	1025.8	981.8	953.8	981.8
35°	1865.1	1729.6	1594.1	1434.6	1275.0	1189.3	1103.8	1053.0	1002.5	980.6	1002.5
37.5°	2109.7	1905.4	1701.3	1507.7	1314.3	1220.7	1127.3	1080.8	1034.3	1010.9	1034.3
40°	2368.2	2099.8	1831.3	1605.3	1379.1	1296.9	1214.7	1184.2	1153.7	1147.1	1153.7
42.5°	2682.7	2353.0	2023.1	1781.4	1539.6	1500.7	1461.8	1472.2	1482.4	1524.5	1482.4
45°	3251.0	2848.2	2445.4	2172.5	1899.5	1913.9	1928.4	2007.7	2087.1	2133.6	2087.1
47.5°	4080.2	3642.2	3204.1	2855.7	2507.4	2604.3	2701.3	2893.9	3086.7	3128.1	3086.7
50°	5179.0	4713.3	4247.5	3812.8	3377.9	3582.3	3786.7	4155.0	4523.1	4583.9	4523.1
52.5°	6171.2	5812.1	5452.9	4944.2	4435.4	4782.4	5129.5	5670.0	6210.6	6376.2	6210.6
55°	6803.6	6921.0	7038.3	6504.3	5970.3	6393.6	6816.7	7528.9	8241.2	8558.7	8241.2
57.5°	7023.7	7717.4	8411.0	8037.0	7663.1	8099.8	8536.5	9416.8	10297.0	10798.2	10297.0
60°	6584.7	7577.4	8570.1	8540.7	8511.5	9104.2	9696.7	10672.9	11649.1	11998.9	11649.1
62.5°	5859.7	6678.4	7497.1	7645.9	7794.7	8629.6	9464.5	10376.2	11287.8	11646.0	11287.8
65°	5010.7	5743.1	6475.4	6590.5	6705.6	7596.9	8488.6	9311.9	10135.3	10256.7	10135.3
67.5°	4293.3	5034.6	5775.9	5848.2	5920.6	6679.0	7437.4	8047.9	8658.4	8508.6	8658.4
70°	3542.7	4326.6	5110.5	5230.4	5350.2	5887.1	6424.0	6780.8	7137.6	6957.3	7137.6
72.5°	2700.1	3494.0	4288.1	4398.7	4509.3	4882.1	5254.9	5431.5	5607.8	5252.4	5607.8
75°	1881.4	2563.8	3246.0	3391.3	3536.7	3798.0	4059.6	4130.6	4201.7	3873.5	4201.7
77.5°	1009.1	1466.5	1923.9	2181.4	2438.9	2722.4	3005.8	3039.6	3073.4	2855.6	3073.4
80°	297.0	506.6	716.2	1018.9	1321.6	1662.1	2002.9	2019.3	2035.7	1873.8	2035.7
82.5°	89.7	180.6	271.6	482.1	692.7	940.3	1187.9	1164.6	1141.2	977.1	1141.2
85°	19.8	62.9	106.0	234.1	362.2	475.3	588.4	542.4	496.4	403.0	496.4
87.5°	2.9	17.4	31.7	83.4	135.1	163.0	191.0	155.9	120.9	109.5	120.9
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: P1209397

CATALOG NUMBER: UPW-SA2-110-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2
2.5°	350.7	350.3	349.5	348.8	347.2	345.7	344.6	343.6	344.7	343.8	342.4
5°	359.9	358.9	357.1	355.2	351.7	348.2	345.3	342.4	338.0	334.5	332.1
7.5°	374.5	370.1	364.8	359.6	352.9	346.1	338.8	331.3	326.8	322.6	319.1
10°	413.3	406.4	396.2	386.1	372.8	359.6	346.0	332.5	326.9	319.7	314.2
12.5°	500.7	486.8	466.0	445.1	423.0	400.9	379.0	357.0	343.2	328.2	317.0
15°	649.5	632.4	600.0	567.7	529.0	490.3	449.0	407.6	379.4	352.3	331.7
17.5°	818.8	802.4	768.1	733.7	682.3	631.0	570.5	510.1	448.5	396.5	358.8
20°	945.9	937.3	914.2	891.2	842.7	794.3	718.3	642.3	548.1	463.5	401.7
22.5°	1013.9	1021.1	1023.2	1025.4	992.2	959.1	878.3	797.8	683.6	564.6	470.3
25°	1025.1	1049.1	1077.4	1105.8	1112.8	1119.8	1052.8	985.8	846.1	685.0	551.4
27.5°	1010.5	1042.6	1096.6	1150.6	1200.2	1249.9	1213.6	1177.4	1029.4	839.1	662.2
30°	1007.8	1045.8	1114.3	1182.7	1271.0	1359.3	1382.9	1406.3	1239.0	1010.6	786.3
32.5°	1025.8	1069.7	1149.3	1228.9	1354.9	1480.8	1563.5	1646.2	1468.9	1202.1	925.4
35°	1053.0	1103.8	1189.3	1275.0	1434.6	1594.1	1729.6	1865.1	1702.9	1411.3	1083.7
37.5°	1080.8	1127.3	1220.7	1314.3	1507.7	1701.3	1905.4	2109.7	1959.9	1646.5	1262.5
40°	1184.2	1214.7	1296.9	1379.1	1605.3	1831.3	2099.8	2368.2	2241.9	1896.6	1447.8
42.5°	1472.2	1461.8	1500.7	1539.6	1781.4	2023.1	2353.0	2682.7	2541.9	2147.8	1627.7
45°	2007.7	1928.4	1913.9	1899.5	2172.5	2445.4	2848.2	3251.0	2973.7	2451.3	1825.1
47.5°	2893.9	2701.3	2604.3	2507.4	2855.7	3204.1	3642.2	4080.2	3617.3	2840.2	2046.1
50°	4155.0	3786.7	3582.3	3377.9	3812.8	4247.5	4713.3	5179.0	4373.9	3245.8	2258.1
52.5°	5670.0	5129.5	4782.4	4435.4	4944.2	5452.9	5812.1	6171.2	4916.4	3470.5	2349.1
55°	7528.9	6816.7	6393.6	5970.3	6504.3	7038.3	6921.0	6803.6	5122.5	3471.9	2304.3
57.5°	9416.8	8536.5	8099.8	7663.1	8037.0	8411.0	7717.4	7023.7	4862.8	3151.2	2075.4
60°	10672.9	9696.7	9104.2	8511.5	8540.7	8570.1	7577.4	6584.7	4326.2	2604.1	1681.1
62.5°	10376.2	9464.5	8629.6	7794.7	7645.9	7497.1	6678.4	5859.7	3684.9	2104.7	1333.5
65°	9311.9	8488.6	7596.9	6705.6	6590.5	6475.4	5743.1	5010.7	3084.9	1698.9	1047.4
67.5°	8047.9	7437.4	6679.0	5920.6	5848.2	5775.9	5034.6	4293.3	2480.1	1308.1	778.1
70°	6780.8	6424.0	5887.1	5350.2	5230.4	5110.5	4326.6	3542.7	1920.8	980.6	577.4
72.5°	5431.5	5254.9	4882.1	4509.3	4398.7	4288.1	3494.0	2700.1	1325.0	646.9	383.9
75°	4130.6	4059.6	3798.0	3536.7	3391.3	3246.0	2563.8	1881.4	846.2	398.3	241.2
77.5°	3039.6	3005.8	2722.4	2438.9	2181.4	1923.9	1466.5	1009.1	443.4	209.0	131.4
80°	2019.3	2002.9	1662.1	1321.6	1018.9	716.2	506.6	297.0	134.5	72.0	52.5
82.5°	1164.6	1187.9	940.3	692.7	482.1	271.6	180.6	89.7	41.0	25.6	21.9
85°	542.4	588.4	475.3	362.2	234.1	106.0	62.9	19.8	10.0	7.9	7.2
87.5°	155.9	191.0	163.0	135.1	83.4	31.7	17.4	2.9	0.5	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



REPORT NUMBER: P1209397

CATALOG NUMBER: UPW-SA2-110-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2
2.5°	341.0	340.3	339.8	339.4	338.9	337.7	337.3	337.6	338.0	337.5	336.8
5°	329.8	327.7	325.5	323.2	320.8	319.1	316.3	316.3	316.2	317.0	317.9
7.5°	315.6	312.7	309.8	307.7	305.7	304.5	304.2	302.1	300.2	300.2	300.2
10°	308.6	305.1	301.6	298.4	295.2	292.3	292.9	291.6	290.2	289.4	288.6
12.5°	306.1	300.4	294.6	291.2	287.7	285.3	283.9	282.2	280.4	279.4	278.3
15°	310.9	301.1	291.2	286.6	282.1	278.3	273.4	272.4	271.4	270.1	268.8
17.5°	321.2	304.2	287.4	281.3	275.1	270.8	268.1	265.3	262.6	260.3	258.0
20°	339.8	312.6	285.3	276.9	268.4	264.4	260.2	256.6	253.0	249.8	246.7
22.5°	375.9	331.4	287.1	273.9	260.9	255.0	248.3	245.0	242.0	238.2	234.3
25°	417.9	352.2	286.5	268.1	249.8	243.4	239.7	235.1	230.6	226.4	222.2
27.5°	485.4	387.8	290.2	265.3	240.1	232.3	228.4	224.1	219.9	215.5	211.0
30°	562.3	430.7	299.1	264.8	230.6	220.7	217.1	213.4	209.6	205.1	200.5
32.5°	648.7	478.9	309.2	266.5	223.6	213.1	206.4	202.2	198.0	193.9	189.8
35°	756.1	540.1	324.0	267.7	211.4	199.7	194.0	190.5	186.9	182.4	178.0
37.5°	878.7	608.6	338.7	268.9	199.1	186.3	182.6	179.8	177.0	172.2	167.5
40°	999.2	675.9	352.6	270.9	189.2	175.3	170.7	168.8	166.8	162.1	157.5
42.5°	1107.5	736.3	365.1	274.4	183.8	161.9	159.7	157.1	154.7	150.2	145.8
45°	1199.0	787.5	376.2	281.1	186.1	150.2	146.3	144.1	141.8	138.8	136.0
47.5°	1251.9	818.7	385.5	291.3	197.1	142.7	131.1	129.7	128.3	127.5	126.7
50°	1270.3	832.6	394.8	306.4	218.0	150.2	126.9	122.2	117.4	117.4	117.4
52.5°	1227.7	809.6	391.5	315.8	240.1	175.9	134.0	120.2	106.2	106.0	105.7
55°	1136.7	755.9	375.2	317.0	258.8	211.4	151.5	124.4	97.2	94.8	92.2
57.5°	999.8	681.2	362.4	306.9	251.3	225.4	165.6	129.0	92.2	85.2	78.3
60°	758.2	565.1	372.1	297.7	223.4	202.6	162.3	126.9	91.8	79.2	66.6
62.5°	562.3	450.0	337.7	265.1	192.4	160.7	145.0	119.4	93.8	76.2	58.5
65°	396.0	343.3	290.6	236.2	181.7	126.4	119.7	105.7	91.8	72.7	53.6
67.5°	248.1	224.7	201.2	177.6	154.0	105.4	93.4	83.3	73.1	60.1	47.2
70°	174.1	160.5	146.7	134.6	122.5	89.1	72.4	63.8	55.3	48.4	41.7
72.5°	120.9	111.1	101.3	95.0	88.7	73.4	56.1	48.4	40.8	36.6	32.4
75°	84.1	76.9	69.6	63.9	58.2	48.3	36.6	31.0	25.4	23.2	21.0
77.5°	53.6	48.0	42.5	37.7	32.8	30.3	22.7	19.6	16.3	15.6	14.9
80°	33.2	29.3	25.6	21.9	18.1	16.9	11.6	10.4	9.1	9.1	9.1
82.5°	18.1	15.8	13.7	11.1	8.4	7.0	4.9	4.2	3.5	3.5	3.5
85°	6.8	5.8	4.9	4.0	2.9	1.7	0.7	0.9	1.2	1.0	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2
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: P1209397

CATALOG NUMBER: UPW-SA2-110-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2
2.5°	335.9	334.8	335.6	336.6	335.5	334.5	334.7	334.8	333.7	332.5	331.2
5°	318.1	318.2	319.6	320.8	321.3	321.7	322.1	322.6	322.8	323.2	323.3
7.5°	300.5	300.7	301.5	302.2	303.3	304.2	306.8	309.2	310.5	311.9	313.4
10°	287.9	287.4	289.9	292.3	293.0	293.7	296.7	299.5	301.2	302.8	304.1
12.5°	277.2	276.0	277.2	278.3	280.6	282.8	287.0	291.2	294.4	297.6	298.3
15°	267.6	266.5	267.4	268.4	269.6	270.8	275.0	279.3	282.9	286.5	288.2
17.5°	256.0	253.9	253.0	252.1	256.0	259.7	263.3	266.9	270.8	274.6	277.9
20°	244.1	241.7	241.1	240.5	242.1	243.6	248.3	253.0	257.6	262.3	263.8
22.5°	230.8	227.3	226.4	225.4	226.2	227.1	229.4	231.8	235.2	238.7	241.3
25°	218.5	214.9	212.0	209.0	209.2	209.4	210.7	212.0	213.2	214.5	216.0
27.5°	206.8	202.6	198.9	195.1	193.6	192.2	190.9	189.6	189.2	188.9	188.7
30°	195.5	190.4	186.3	182.3	178.1	173.8	171.1	168.3	165.4	162.5	160.2
32.5°	184.9	179.9	172.6	165.4	160.9	156.6	151.5	146.5	141.1	136.0	132.5
35°	172.4	166.8	160.0	153.1	145.7	138.4	130.9	123.4	116.5	109.5	105.5
37.5°	160.6	153.7	146.5	139.2	128.8	118.6	109.9	101.3	94.2	87.1	82.9
40°	149.5	141.5	131.6	121.7	110.5	99.2	89.9	80.6	73.8	67.0	63.5
42.5°	138.1	130.4	119.0	107.7	95.4	82.9	73.3	63.5	57.6	51.8	48.7
45°	127.2	118.6	105.3	92.0	80.4	68.7	60.3	51.8	46.4	40.8	38.3
47.5°	117.4	108.1	94.2	80.4	69.3	58.2	50.3	42.5	37.4	32.4	30.0
50°	107.8	98.4	84.4	70.5	60.3	50.1	43.1	36.1	31.3	26.6	24.2
52.5°	97.4	89.1	75.5	61.7	53.7	45.7	39.0	32.4	27.3	22.1	19.8
55°	84.9	77.4	66.1	54.7	47.5	40.2	34.2	28.2	22.8	17.5	15.0
57.5°	72.1	65.8	56.1	46.6	40.5	34.4	28.6	23.1	17.9	12.8	10.7
60°	61.0	55.3	47.2	39.0	33.1	27.0	22.1	17.2	12.7	8.2	6.1
62.5°	52.6	46.8	38.9	30.9	26.1	21.2	16.9	12.6	8.3	4.1	2.2
65°	46.5	39.4	32.5	25.6	20.4	15.1	11.2	7.2	4.4	1.4	0.7
67.5°	39.5	31.7	25.2	18.6	14.1	9.5	6.3	2.9	1.4	0.0	0.0
70°	33.2	24.7	17.6	10.5	7.0	3.5	2.1	0.6	0.2	0.0	0.0
72.5°	25.2	18.1	11.4	4.7	3.0	1.4	0.9	0.2	0.1	0.0	0.0
75°	16.8	12.6	8.0	3.5	2.2	0.9	0.5	0.0	0.0	0.0	0.0
77.5°	12.3	9.9	6.1	2.3	1.4	0.6	0.2	0.0	0.0	0.0	0.0
80°	7.5	5.8	3.5	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.9	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.6	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.1	0.0	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



REPORT NUMBER: P1209397

CATALOG NUMBER: UPW-SA2-110-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2
2.5°	329.8	329.6	329.8	331.2	332.5	333.7	334.8	334.7	334.5	335.5	336.6
5°	323.5	323.8	323.5	323.3	323.2	322.8	322.6	322.1	321.7	321.3	320.8
7.5°	315.0	317.9	315.0	313.4	311.9	310.5	309.2	306.8	304.2	303.3	302.2
10°	305.4	307.5	305.4	304.1	302.8	301.2	299.5	296.7	293.7	293.0	292.3
12.5°	299.1	299.3	299.1	298.3	297.6	294.4	291.2	287.0	282.8	280.6	278.3
15°	290.0	291.2	290.0	288.2	286.5	282.9	279.3	275.0	270.8	269.6	268.4
17.5°	281.3	283.0	281.3	277.9	274.6	270.8	266.9	263.3	259.7	256.0	252.1
20°	265.3	264.4	265.3	263.8	262.3	257.6	253.0	248.3	243.6	242.1	240.5
22.5°	244.0	246.9	244.0	241.3	238.7	235.2	231.8	229.4	227.1	226.2	225.4
25°	217.5	218.9	217.5	216.0	214.5	213.2	212.0	210.7	209.4	209.2	209.0
27.5°	188.4	187.5	188.4	188.7	188.9	189.2	189.6	190.9	192.2	193.6	195.1
30°	158.2	157.2	158.2	160.2	162.5	165.4	168.3	171.1	173.8	178.1	182.3
32.5°	129.0	126.9	129.0	132.5	136.0	141.1	146.5	151.5	156.6	160.9	165.4
35°	101.6	100.2	101.6	105.5	109.5	116.5	123.4	130.9	138.4	145.7	153.1
37.5°	79.0	76.9	79.0	82.9	87.1	94.2	101.3	109.9	118.6	128.8	139.2
40°	60.0	58.2	60.0	63.5	67.0	73.8	80.6	89.9	99.2	110.5	121.7
42.5°	45.4	43.1	45.4	48.7	51.8	57.6	63.5	73.3	82.9	95.4	107.7
45°	35.9	34.9	35.9	38.3	40.8	46.4	51.8	60.3	68.7	80.4	92.0
47.5°	27.7	26.8	27.7	30.0	32.4	37.4	42.5	50.3	58.2	69.3	80.4
50°	21.9	21.0	21.9	24.2	26.6	31.3	36.1	43.1	50.1	60.3	70.5
52.5°	17.5	16.3	17.5	19.8	22.1	27.3	32.4	39.0	45.7	53.7	61.7
55°	12.6	11.6	12.6	15.0	17.5	22.8	28.2	34.2	40.2	47.5	54.7
57.5°	8.7	8.2	8.7	10.7	12.8	17.9	23.1	28.6	34.4	40.5	46.6
60°	4.1	3.5	4.1	6.1	8.2	12.7	17.2	22.1	27.0	33.1	39.0
62.5°	0.2	0.0	0.2	2.2	4.1	8.3	12.6	16.9	21.2	26.1	30.9
65°	0.0	0.0	0.0	0.7	1.4	4.4	7.2	11.2	15.1	20.4	25.6
67.5°	0.0	0.0	0.0	0.0	0.0	1.4	2.9	6.3	9.5	14.1	18.6
70°	0.0	0.0	0.0	0.0	0.0	0.2	0.6	2.1	3.5	7.0	10.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.9	1.4	3.0	4.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	2.2	3.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	1.4	2.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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



REPORT NUMBER: P1209397

CATALOG NUMBER: UPW-SA2-110-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2	341.2
2.5°	335.6	334.8	335.9	336.8	337.5	338.0	337.6	337.3	337.7	338.9	339.4
5°	319.6	318.2	318.1	317.9	317.0	316.2	316.3	316.3	319.1	320.8	323.2
7.5°	301.5	300.7	300.5	300.2	300.2	300.2	302.1	304.2	304.5	305.7	307.7
10°	289.9	287.4	287.9	288.6	289.4	290.2	291.6	292.9	292.3	295.2	298.4
12.5°	277.2	276.0	277.2	278.3	279.4	280.4	282.2	283.9	285.3	287.7	291.2
15°	267.4	266.5	267.6	268.8	270.1	271.4	272.4	273.4	278.3	282.1	286.6
17.5°	253.0	253.9	256.0	258.0	260.3	262.6	265.3	268.1	270.8	275.1	281.3
20°	241.1	241.7	244.1	246.7	249.8	253.0	256.6	260.2	264.4	268.4	276.9
22.5°	226.4	227.3	230.8	234.3	238.2	242.0	245.0	248.3	255.0	260.9	273.9
25°	212.0	214.9	218.5	222.2	226.4	230.6	235.1	239.7	243.4	249.8	268.1
27.5°	198.9	202.6	206.8	211.0	215.5	219.9	224.1	228.4	232.3	240.1	265.3
30°	186.3	190.4	195.5	200.5	205.1	209.6	213.4	217.1	220.7	230.6	264.8
32.5°	172.6	179.9	184.9	189.8	193.9	198.0	202.2	206.4	213.1	223.6	266.5
35°	160.0	166.8	172.4	178.0	182.4	186.9	190.5	194.0	199.7	211.4	267.7
37.5°	146.5	153.7	160.6	167.5	172.2	177.0	179.8	182.6	186.3	199.1	268.9
40°	131.6	141.5	149.5	157.5	162.1	166.8	168.8	170.7	175.3	189.2	270.9
42.5°	119.0	130.4	138.1	145.8	150.2	154.7	157.1	159.7	161.9	183.8	274.4
45°	105.3	118.6	127.2	136.0	138.8	141.8	144.1	146.3	150.2	186.1	281.1
47.5°	94.2	108.1	117.4	126.7	127.5	128.3	129.7	131.1	142.7	197.1	291.3
50°	84.4	98.4	107.8	117.4	117.4	117.4	122.2	126.9	150.2	218.0	306.4
52.5°	75.5	89.1	97.4	105.7	106.0	106.2	120.2	134.0	175.9	240.1	315.8
55°	66.1	77.4	84.9	92.2	94.8	97.2	124.4	151.5	211.4	258.8	317.0
57.5°	56.1	65.8	72.1	78.3	85.2	92.2	129.0	165.6	225.4	251.3	306.9
60°	47.2	55.3	61.0	66.6	79.2	91.8	126.9	162.3	202.6	223.4	297.7
62.5°	38.9	46.8	52.6	58.5	76.2	93.8	119.4	145.0	160.7	192.4	265.1
65°	32.5	39.4	46.5	53.6	72.7	91.8	105.7	119.7	126.4	181.7	236.2
67.5°	25.2	31.7	39.5	47.2	60.1	73.1	83.3	93.4	105.4	154.0	177.6
70°	17.6	24.7	33.2	41.7	48.4	55.3	63.8	72.4	89.1	122.5	134.6
72.5°	11.4	18.1	25.2	32.4	36.6	40.8	48.4	56.1	73.4	88.7	95.0
75°	8.0	12.6	16.8	21.0	23.2	25.4	31.0	36.6	48.3	58.2	63.9
77.5°	6.1	9.9	12.3	14.9	15.6	16.3	19.6	22.7	30.3	32.8	37.7
80°	3.5	5.8	7.5	9.1	9.1	9.1	10.4	11.6	16.9	18.1	21.9
82.5°	1.2	2.3	2.9	3.5	3.5	3.5	4.2	4.9	7.0	8.4	11.1
85°	0.1	0.2	0.6	0.9	1.0	1.2	0.9	0.7	1.7	2.9	4.0
87.5°	0.0	0.0	0.1	0.2	0.2	0.2	0.1	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



REPORT NUMBER: P1209397

CATALOG NUMBER: UPW-SA2-110-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	341.2	341.2	341.2	341.2	341.2	341.2	341.2
2.5°	339.8	340.3	341.0	342.4	343.8	344.7	343.6
5°	325.5	327.7	329.8	332.1	334.5	338.0	342.4
7.5°	309.8	312.7	315.6	319.1	322.6	326.8	331.3
10°	301.6	305.1	308.6	314.2	319.7	326.9	332.5
12.5°	294.6	300.4	306.1	317.0	328.2	343.2	357.0
15°	291.2	301.1	310.9	331.7	352.3	379.4	407.6
17.5°	287.4	304.2	321.2	358.8	396.5	448.5	510.1
20°	285.3	312.6	339.8	401.7	463.5	548.1	642.3
22.5°	287.1	331.4	375.9	470.3	564.6	683.6	797.8
25°	286.5	352.2	417.9	551.4	685.0	846.1	985.8
27.5°	290.2	387.8	485.4	662.2	839.1	1029.4	1177.4
30°	299.1	430.7	562.3	786.3	1010.6	1239.0	1406.3
32.5°	309.2	478.9	648.7	925.4	1202.1	1468.9	1646.2
35°	324.0	540.1	756.1	1083.7	1411.3	1702.9	1865.1
37.5°	338.7	608.6	878.7	1262.5	1646.5	1959.9	2109.7
40°	352.6	675.9	999.2	1447.8	1896.6	2241.9	2368.2
42.5°	365.1	736.3	1107.5	1627.7	2147.8	2541.9	2682.7
45°	376.2	787.5	1199.0	1825.1	2451.3	2973.7	3251.0
47.5°	385.5	818.7	1251.9	2046.1	2840.2	3617.3	4080.2
50°	394.8	832.6	1270.3	2258.1	3245.8	4373.9	5179.0
52.5°	391.5	809.6	1227.7	2349.1	3470.5	4916.4	6171.2
55°	375.2	755.9	1136.7	2304.3	3471.9	5122.5	6803.6
57.5°	362.4	681.2	999.8	2075.4	3151.2	4862.8	7023.7
60°	372.1	565.1	758.2	1681.1	2604.1	4326.2	6584.7
62.5°	337.7	450.0	562.3	1333.5	2104.7	3684.9	5859.7
65°	290.6	343.3	396.0	1047.4	1698.9	3084.9	5010.7
67.5°	201.2	224.7	248.1	778.1	1308.1	2480.1	4293.3
70°	146.7	160.5	174.1	577.4	980.6	1920.8	3542.7
72.5°	101.3	111.1	120.9	383.9	646.9	1325.0	2700.1
75°	69.6	76.9	84.1	241.2	398.3	846.2	1881.4
77.5°	42.5	48.0	53.6	131.4	209.0	443.4	1009.1
80°	25.6	29.3	33.2	52.5	72.0	134.5	297.0
82.5°	13.7	15.8	18.1	21.9	25.6	41.0	89.7
85°	4.9	5.8	6.8	7.2	7.9	10.0	19.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)