

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: P1209026

Luminaire Tested: UPW-SA2-090-730-U-T2R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-730-U-T2R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8766 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

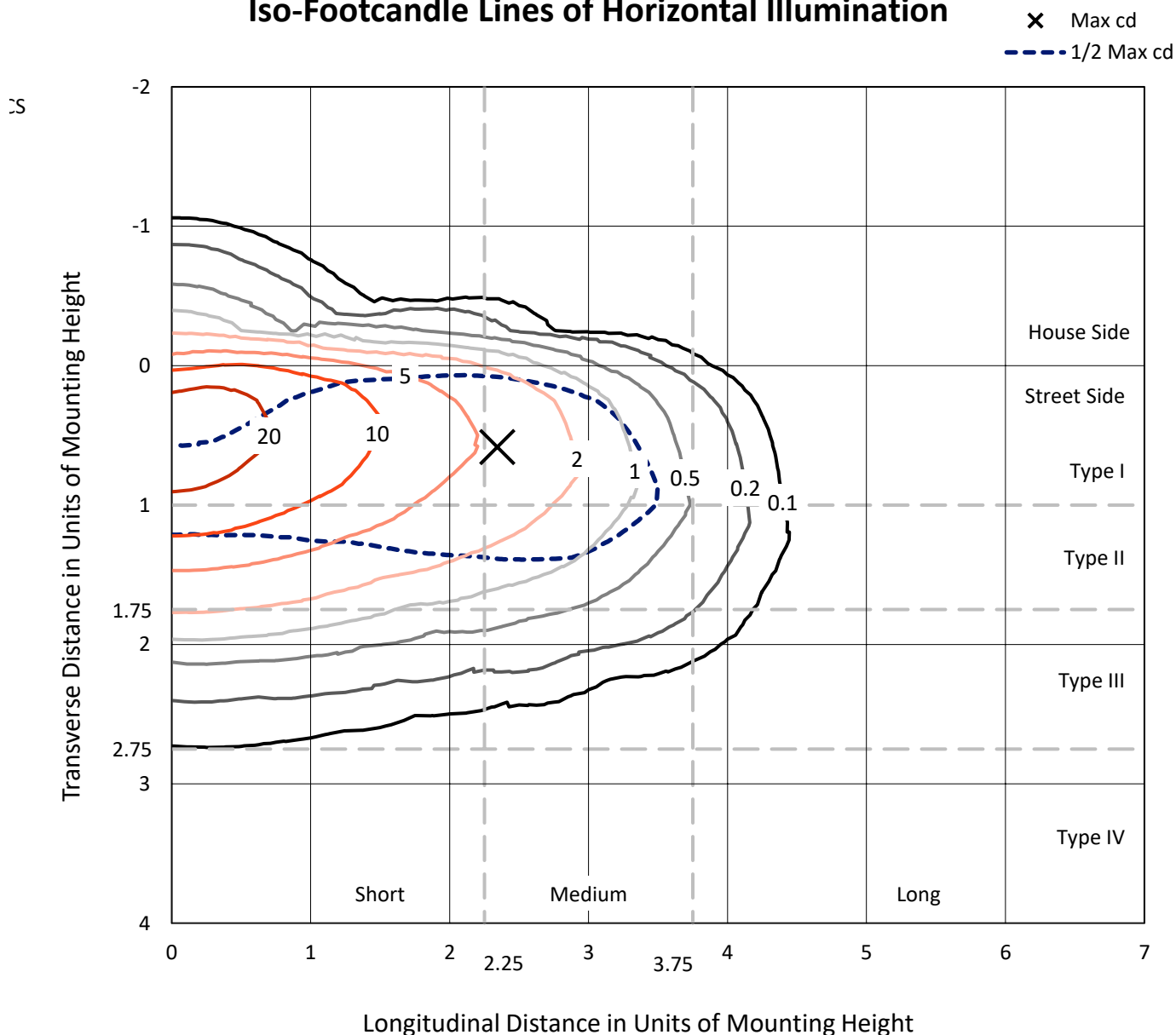
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P1209026

CATALOG NUMBER: UPW-SA2-090-730-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

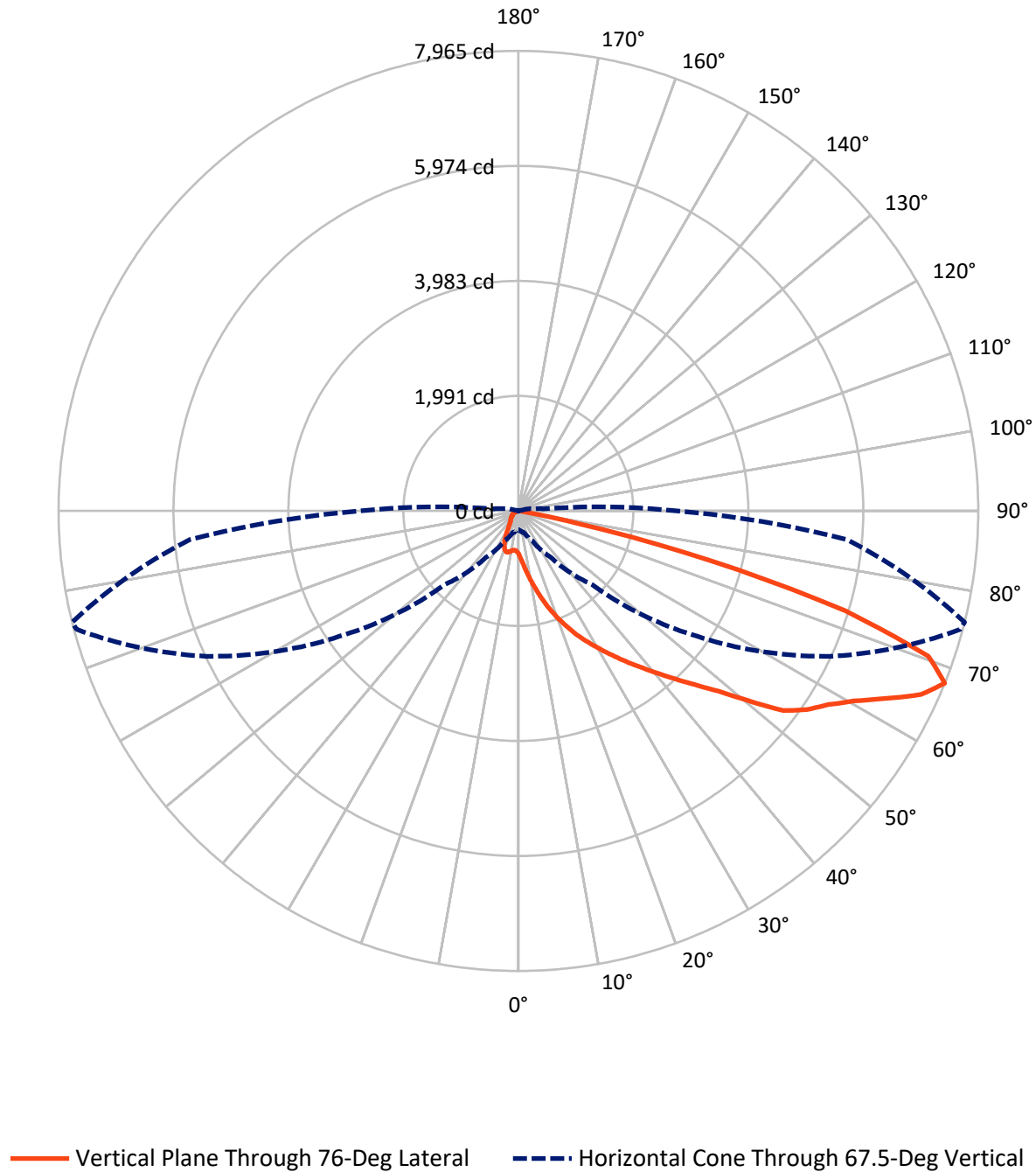


Based on 10 foot mounting height. Maximum calculated value = 26.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P1209026

CATALOG NUMBER: UPW-SA2-090-730-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1209026

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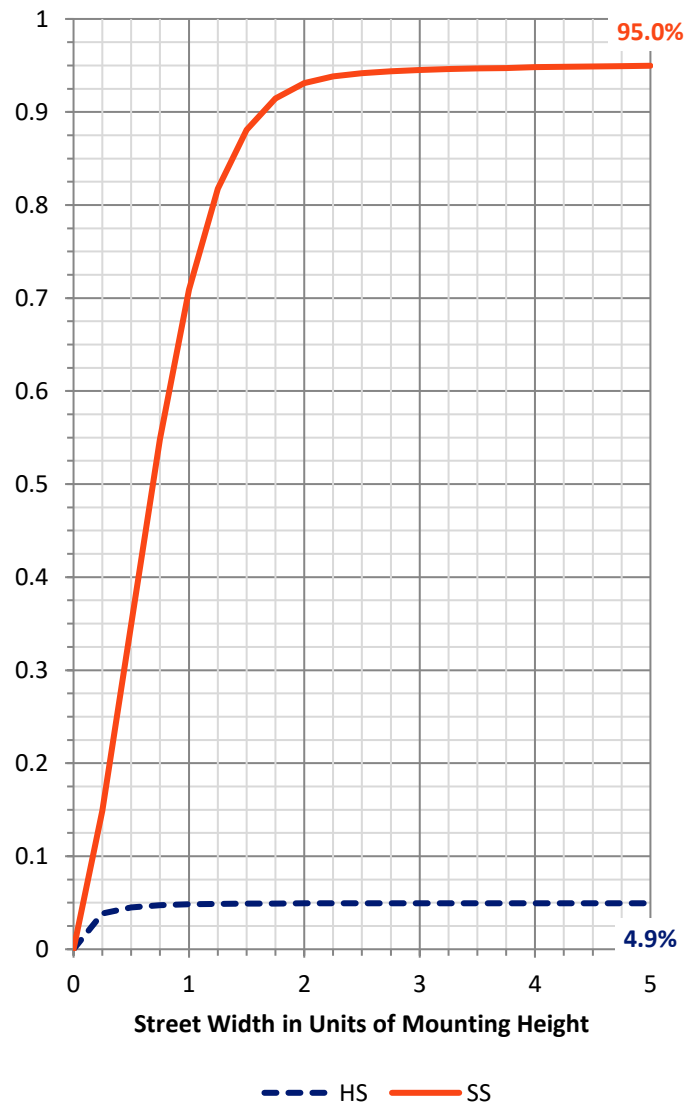
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	435.3	0.0	435.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	8330.7	0.0	8330.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	8766.0	0.0	8766.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	1.1
10°-20°	366.6	4.2
20°-30°	745.8	8.5
30°-40°	1294.5	14.8
40°-50°	1828.9	20.9
50°-60°	2074.1	23.7
60°-70°	1720.3	19.6
70°-80°	623.1	7.1
80°-90°	20.2	0.2
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

Coefficient of Utilization



REPORT NUMBER: P1209026

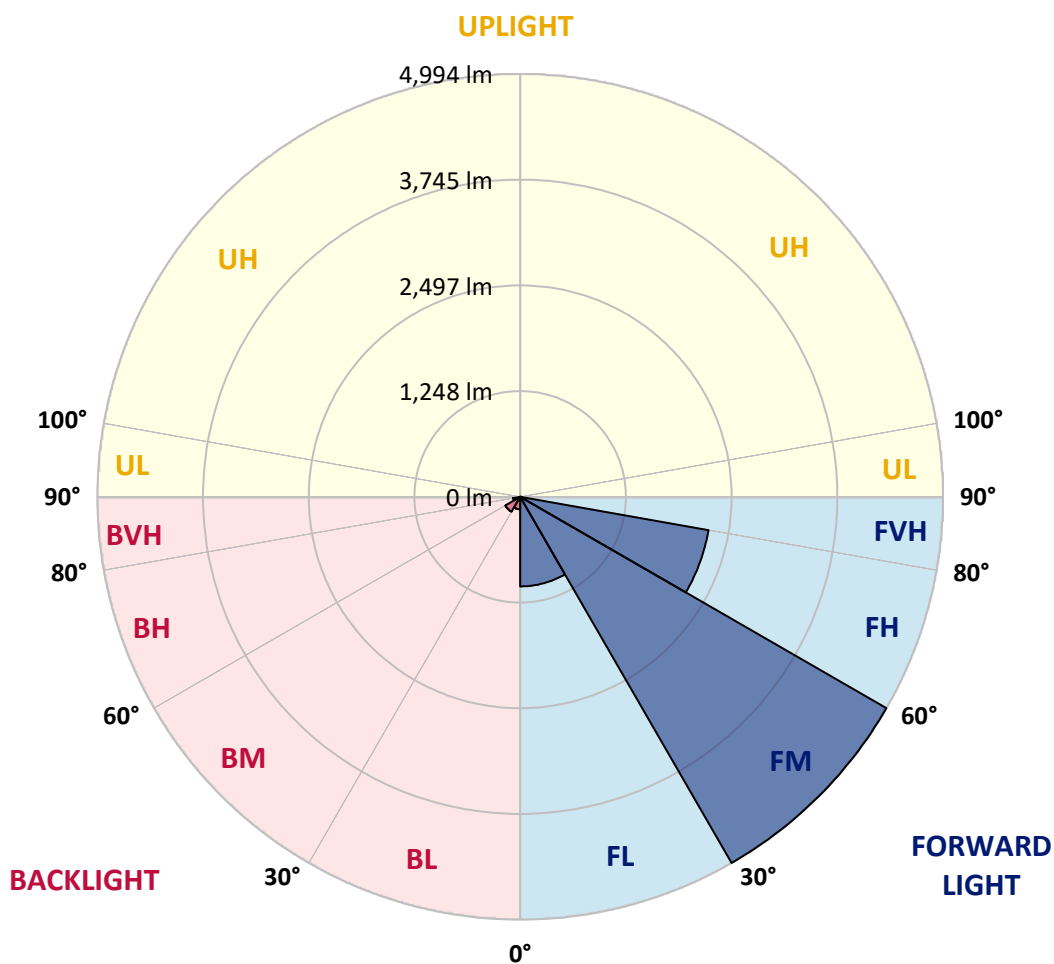
CATALOG NUMBER: UPW-SA2-090-730-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1058.0	12.1			
FM	(30°-60°)	4993.8	57.0			
FH	(60°-80°)	2259.3	25.8			G2/5000
FVH	(80°-90°)	19.6	0.2			G1/100
BL	(0°-30°)	146.8	1.7	B1/500		
BM	(30°-60°)	203.7	2.3	B0/220		
BH	(60°-80°)	84.1	1.0	B0/110		G0/110
BVH	(80°-90°)	0.6	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 II Medium



REPORT NUMBER: P1209026

CATALOG NUMBER: UPW-SA2-090-730-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6
2.5°	1110.0	1085.1	1090.8	1074.7	1045.5	985.6	934.5	886.1	829.6	827.7	781.3
5°	1496.8	1475.7	1473.0	1440.4	1387.4	1285.6	1186.5	1073.5	947.6	938.3	839.6
7.5°	1847.9	1831.0	1824.8	1786.0	1687.3	1588.2	1459.2	1293.3	1096.2	1079.3	918.4
10°	2117.5	2109.5	2111.0	2083.3	1998.8	1906.7	1737.3	1525.6	1264.8	1238.7	1012.9
12.5°	2321.9	2323.8	2337.6	2320.7	2273.5	2205.1	2024.2	1773.4	1451.5	1415.8	1120.8
15°	2472.0	2481.6	2507.0	2528.1	2524.7	2465.5	2299.6	2025.0	1649.7	1610.1	1241.0
17.5°	2569.2	2580.0	2616.8	2663.7	2706.7	2692.9	2565.4	2267.7	1850.2	1804.5	1369.7
20°	2654.5	2667.2	2706.7	2768.6	2848.8	2866.1	2782.4	2503.2	2050.3	1994.6	1502.6
22.5°	2839.2	2838.9	2863.1	2899.2	2975.6	3020.2	2967.1	2721.7	2248.1	2190.1	1638.2
25°	3173.4	3160.7	3152.3	3123.9	3140.8	3168.4	3138.8	2926.0	2447.1	2388.3	1775.7
27.5°	3570.6	3578.2	3509.9	3433.4	3374.3	3345.9	3297.5	3115.4	2638.4	2573.8	1910.1
30°	3989.6	3991.9	3911.3	3813.7	3683.5	3575.6	3491.8	3296.3	2835.0	2764.7	2040.7
32.5°	4367.6	4352.6	4272.7	4139.8	3975.4	3854.0	3680.0	3498.4	3043.2	2975.2	2185.9
35°	4667.2	4649.5	4552.3	4431.3	4260.8	4138.6	3929.3	3700.0	3262.1	3195.7	2331.5
37.5°	4886.1	4865.3	4765.5	4641.0	4493.9	4422.9	4218.5	3919.3	3501.0	3429.6	2484.7
40°	4962.1	4944.1	4881.5	4790.5	4672.1	4656.0	4525.4	4171.7	3761.1	3685.0	2658.3
42.5°	4916.8	4899.1	4876.9	4846.1	4797.0	4812.3	4815.0	4459.4	4049.9	3975.0	2850.0
45°	4737.1	4721.3	4744.4	4789.3	4850.4	4926.4	5079.3	4768.6	4372.6	4292.7	3071.6
47.5°	4472.4	4460.9	4524.7	4636.8	4815.4	5025.1	5320.9	5093.5	4734.8	4660.6	3348.2
50°	4096.0	4094.1	4221.6	4426.3	4701.0	5072.8	5570.6	5463.0	5237.9	5160.0	3732.6
52.5°	3509.9	3513.7	3764.5	4092.2	4500.1	5040.5	5731.1	5937.7	5823.3	5742.2	4065.7
55°	2951.8	2974.8	3152.7	3625.1	4192.0	4920.7	5786.4	6159.4	6146.3	6069.5	4250.8
57.5°	2405.2	2447.1	2618.4	3059.7	3742.3	4644.5	5756.1	6255.4	6386.8	6328.0	4495.1
60°	1812.9	1832.1	2029.6	2442.1	3165.0	4140.6	5536.0	6307.6	6715.5	6674.8	4849.6
62.5°	1153.4	1201.5	1376.6	1774.5	2464.4	3440.7	5164.9	6306.9	7126.9	7149.2	5307.1
65°	607.6	663.7	756.7	1099.7	1693.5	2659.1	4606.9	6247.7	7631.6	7662.7	5664.7
67.5°	327.6	343.8	392.9	570.8	982.1	1801.4	3786.8	5955.8	7923.9	7965.0	5714.6
70°	239.7	248.5	266.9	315.7	494.3	1046.3	2763.2	5294.0	7547.1	7531.7	5077.4
72.5°	184.0	197.8	211.6	231.2	284.2	558.5	1720.4	4145.6	6021.9	5920.5	3795.3
75°	145.2	147.5	167.1	184.8	213.2	318.0	764.0	2414.4	3675.4	3435.4	1968.1
77.5°	116.0	117.5	129.1	144.4	171.3	208.9	236.6	949.9	1173.4	1047.0	427.1
80°	68.8	72.6	96.0	111.4	142.1	131.7	86.4	206.3	183.2	165.9	71.8
82.5°	38.4	41.5	54.2	88.0	99.1	63.0	43.0	55.7	43.0	41.9	20.4
85°	0.0	1.9	35.0	54.5	40.3	13.8	18.1	18.4	12.7	11.9	8.1
87.5°	0.0	0.0	10.8	10.4	1.5	2.3	4.2	6.1	5.0	5.0	4.2
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: P1209026

CATALOG NUMBER: UPW-SA2-090-730-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6
2.5°	758.2	737.5	698.3	659.9	627.6	601.1	577.3	567.7	560.0	558.9	552.7
5°	792.0	750.1	675.2	613.8	572.7	543.5	518.5	503.2	491.3	486.7	482.4
7.5°	843.1	779.7	672.2	601.5	552.3	503.2	457.1	407.1	376.0	364.1	357.2
10°	905.3	818.9	683.7	598.0	512.0	408.3	331.9	268.5	242.7	234.3	232.0
12.5°	977.9	867.7	703.7	576.5	426.0	290.0	228.9	207.4	201.7	199.0	199.0
15°	1061.3	921.1	717.9	514.3	315.0	219.3	198.2	188.2	182.1	178.6	179.0
17.5°	1146.5	973.3	711.0	424.0	232.4	195.1	179.4	168.6	160.2	156.7	155.9
20°	1232.6	1021.7	672.6	315.7	196.7	177.1	159.4	147.5	139.0	135.6	134.8
22.5°	1321.7	1062.8	605.0	231.6	176.7	157.1	139.8	127.9	119.8	116.8	115.2
25°	1408.5	1096.2	510.5	187.4	157.9	138.3	121.8	110.6	103.3	100.2	99.9
27.5°	1489.5	1117.3	401.0	165.5	141.3	121.4	106.4	96.4	90.3	88.0	87.6
30°	1562.5	1119.3	296.5	149.4	126.8	106.8	93.0	84.1	78.7	76.4	75.7
32.5°	1636.3	1103.1	215.9	134.8	113.3	94.1	80.7	73.7	69.9	68.0	68.0
35°	1705.8	1065.9	168.2	122.1	100.2	81.8	71.1	66.1	63.8	61.8	61.8
37.5°	1773.8	1012.5	142.9	111.0	88.0	71.4	62.6	59.5	57.6	55.7	55.7
40°	1842.9	945.3	129.8	100.6	78.0	63.4	55.7	53.0	51.1	49.5	49.2
42.5°	1927.8	867.7	121.4	91.0	69.1	56.1	49.2	46.1	44.6	43.0	42.3
45°	2026.1	800.8	114.5	81.4	61.8	49.9	42.6	39.6	37.3	35.3	35.0
47.5°	2167.8	752.4	105.2	71.1	54.9	43.4	36.9	33.4	30.0	28.0	27.7
50°	2348.7	712.5	93.3	61.8	48.0	36.9	30.7	26.5	23.4	21.5	21.5
52.5°	2438.6	660.3	82.6	53.8	40.3	31.1	25.0	20.0	18.4	16.5	16.5
55°	2474.7	620.3	71.8	45.7	33.4	25.7	19.6	15.4	14.2	13.1	12.7
57.5°	2576.1	608.8	62.6	38.8	27.7	20.4	15.0	11.5	10.8	9.2	9.2
60°	2739.4	614.6	54.2	33.0	22.3	15.7	11.1	8.8	8.1	6.5	6.5
62.5°	2915.7	607.3	45.7	28.4	17.3	11.5	7.7	6.5	6.5	3.8	3.5
65°	2949.5	540.8	39.2	23.4	13.4	8.5	5.0	4.2	5.8	0.8	0.0
67.5°	2737.5	419.4	33.8	18.1	10.0	6.5	3.8	1.9	5.0	0.0	0.0
70°	2189.0	266.6	27.3	13.1	7.7	5.4	3.1	0.8	3.8	0.0	0.0
72.5°	1547.9	154.8	21.5	9.2	6.5	4.2	2.3	0.0	2.3	0.0	0.0
75°	782.8	82.6	13.4	6.9	5.0	3.1	1.5	0.0	0.4	0.0	0.0
77.5°	169.4	38.4	8.5	5.0	3.5	1.9	0.8	0.0	0.0	0.0	0.0
80°	36.9	16.9	5.4	3.1	1.9	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	13.4	8.8	2.7	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.3	4.6	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	1.5	0.4	0.4	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)