

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: P1209566

Luminaire Tested: UPW-SA2-130-740-U-T2R-HSS

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209566  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-130-740-U-T2R-HSS  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPT WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13070 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

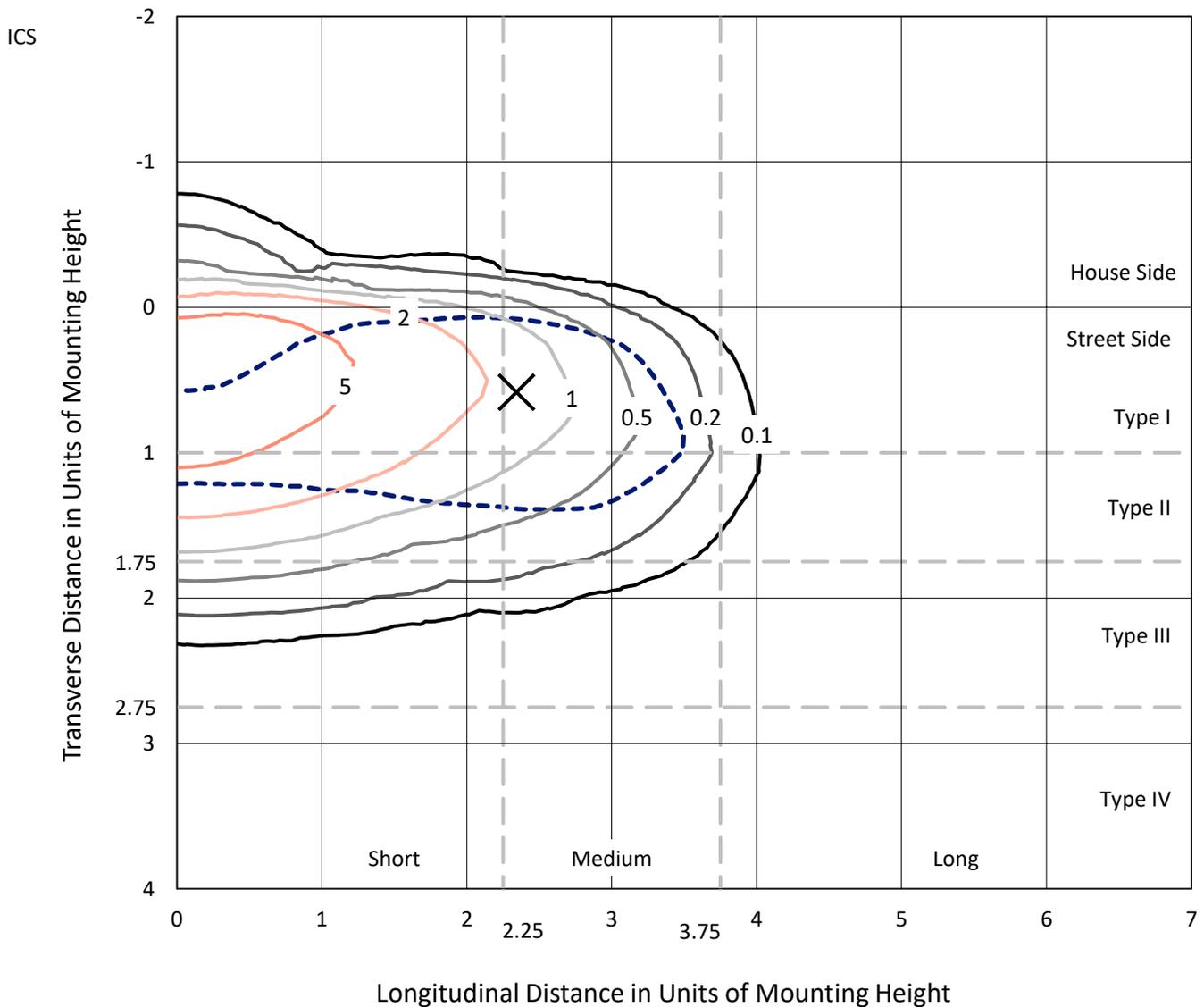
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

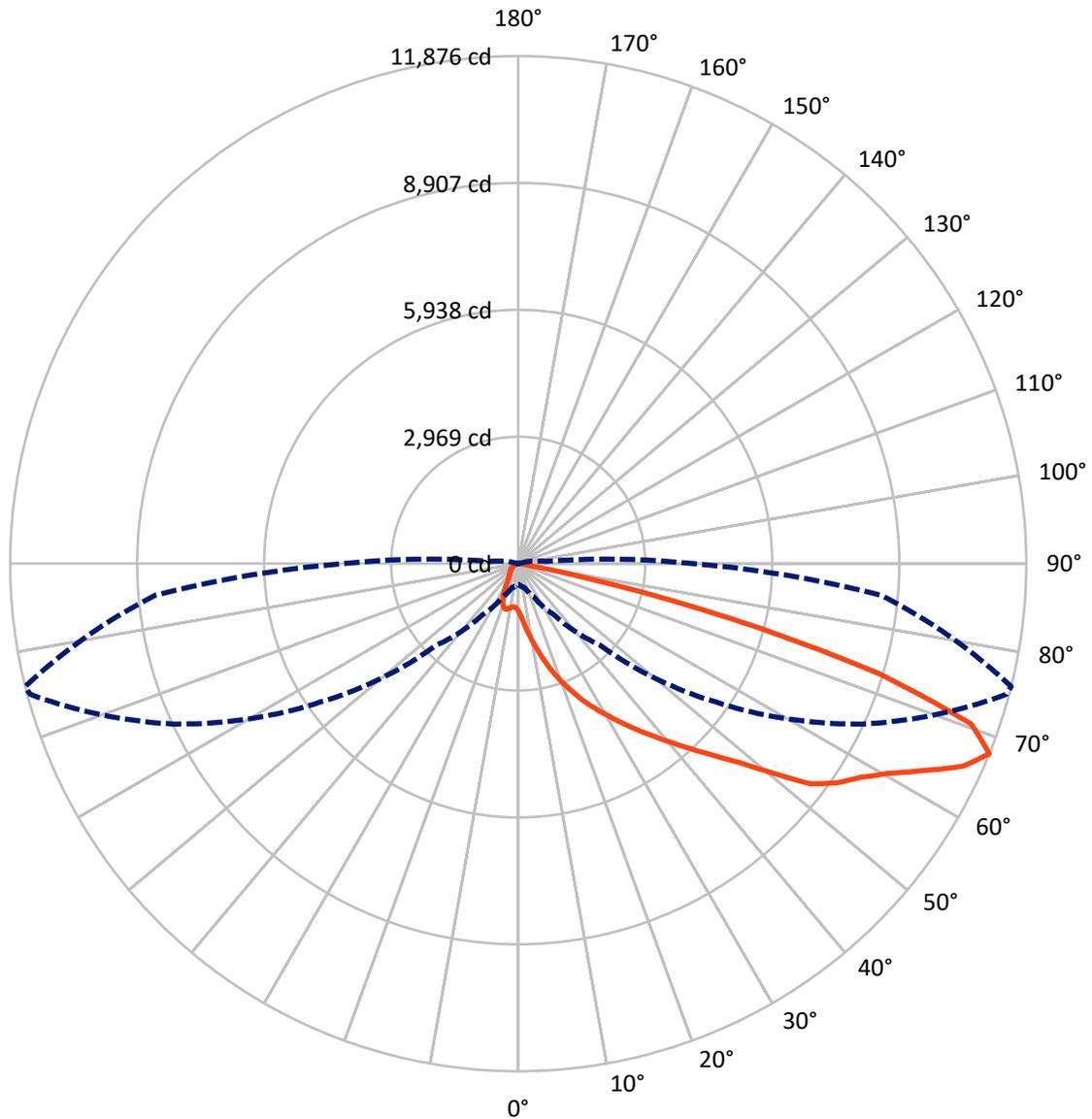
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.8 fc  
 Type II - Medium - N/A

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CATALOG NUMBER: UPW-SA2-130-740-U-T2R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: UPW-SA2-130-740-U-T2R-HSS

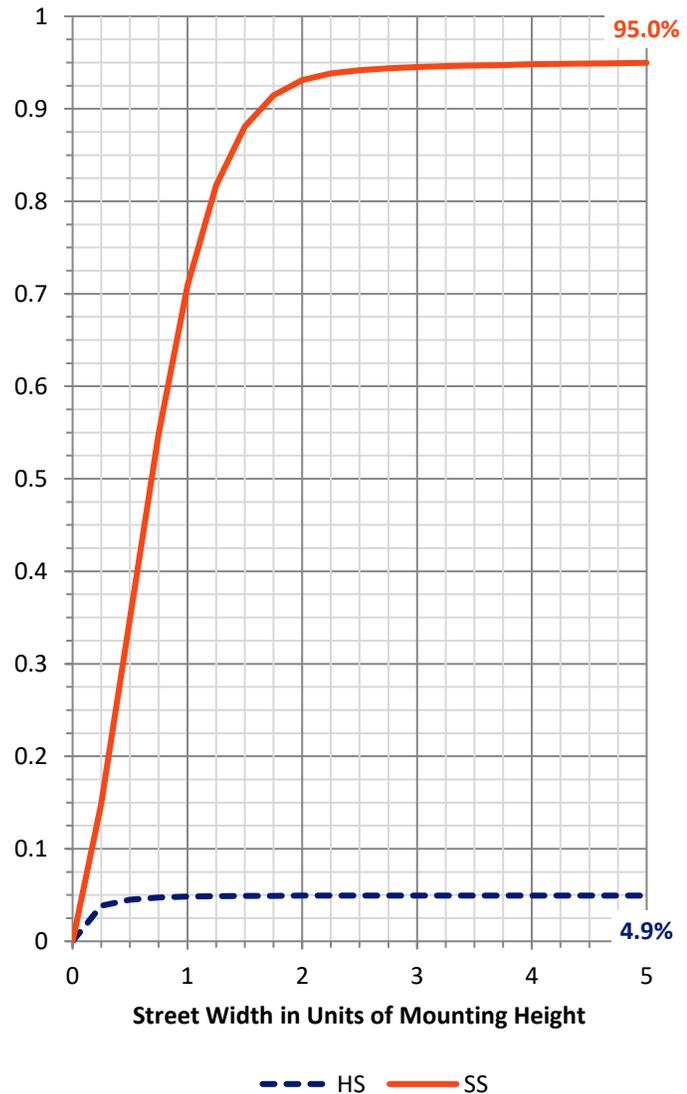
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	649.0	0.0	649.0
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	12421.0	0.0	12421.0
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	13070.0	0.0	13070.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.9	1.1
10°-20°	546.5	4.2
20°-30°	1112.0	8.5
30°-40°	1930.1	14.8
40°-50°	2726.9	20.9
50°-60°	3092.5	23.7
60°-70°	2564.9	19.6
70°-80°	929.1	7.1
80°-90°	30.1	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°	13070.0	100.0
0°-180°	13070.0	100.0



REPORT NUMBER: P1209566

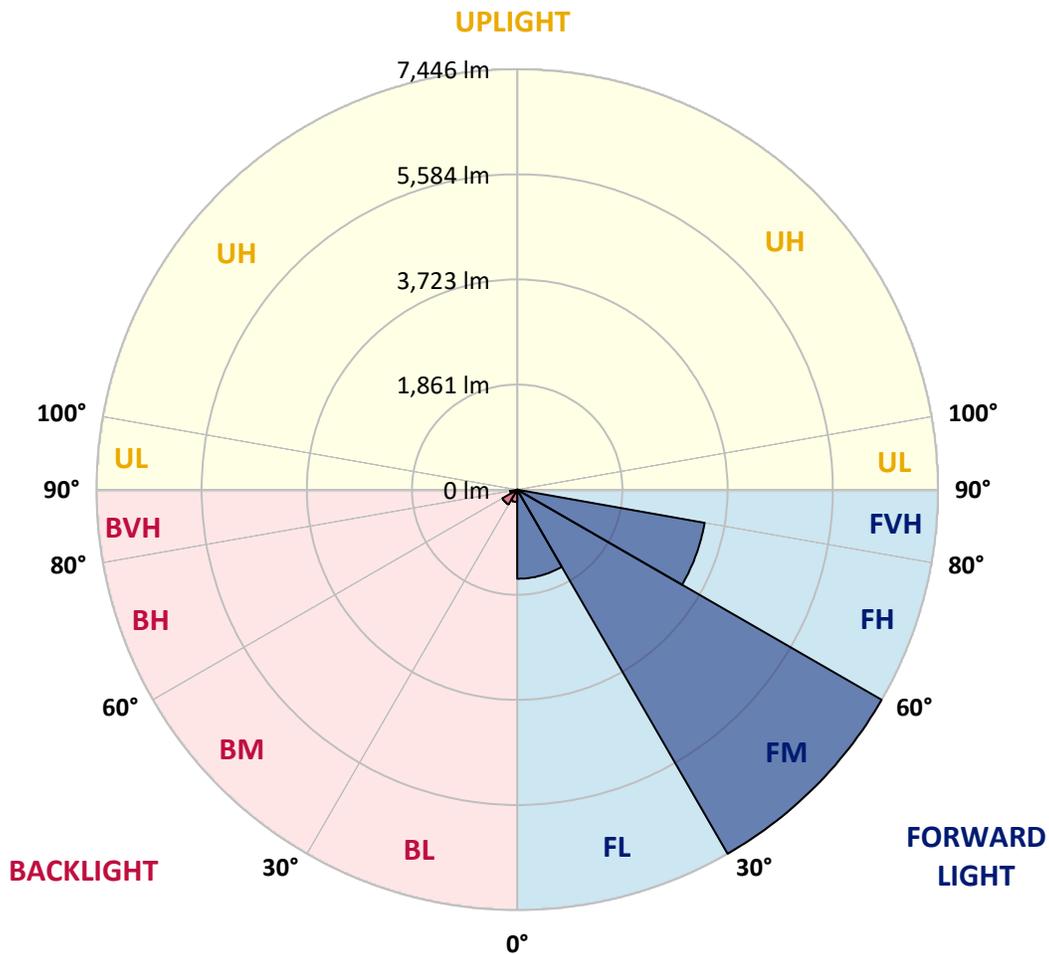
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1577.5	12.1			
FM	(30°-60°)	7445.7	57.0			
FH	(60°-80°)	3368.6	25.8			G2/5000
FVH	(80°-90°)	29.2	0.2			G1/100
BL	(0°-30°)	218.9	1.7	B1/500		
BM	(30°-60°)	303.8	2.3	B1/1000		
BH	(60°-80°)	125.4	1.0	B1/500		G1/500
BVH	(80°-90°)	0.9	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: P1209566

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1108.7	1108.7	1108.7	1108.7	1108.7	1108.7	1108.7	1108.7	1108.7	1108.7	1108.7
2.5°	1655.1	1617.8	1626.4	1602.4	1558.8	1469.5	1393.3	1321.2	1237.0	1234.1	1164.8
5°	2231.7	2200.2	2196.2	2147.6	2068.5	1916.8	1769.0	1600.6	1412.8	1399.1	1251.9
7.5°	2755.2	2730.0	2720.8	2663.0	2515.8	2368.0	2175.6	1928.2	1634.4	1609.2	1369.3
10°	3157.2	3145.2	3147.5	3106.2	2980.2	2842.8	2590.2	2274.7	1885.8	1846.9	1510.2
12.5°	3461.9	3464.7	3485.3	3460.2	3389.7	3287.8	3018.0	2644.1	2164.2	2110.9	1671.1
15°	3685.8	3700.1	3737.9	3769.4	3764.2	3676.1	3428.7	3019.2	2459.7	2400.7	1850.3
17.5°	3830.7	3846.7	3901.7	3971.6	4035.7	4015.1	3825.0	3381.1	2758.6	2690.5	2042.2
20°	3957.8	3976.7	4035.7	4127.9	4247.6	4273.4	4148.5	3732.2	3057.0	2973.9	2240.3
22.5°	4233.3	4232.7	4268.8	4322.6	4436.6	4503.0	4424.0	4058.0	3351.9	3265.4	2442.5
25°	4731.5	4712.6	4700.0	4657.6	4682.8	4724.1	4680.0	4362.7	3648.6	3560.9	2647.5
27.5°	5323.7	5335.1	5233.2	5119.2	5031.0	4988.6	4916.5	4645.0	3933.8	3837.5	2848.0
30°	5948.5	5951.9	5831.6	5686.2	5492.0	5331.1	5206.3	4914.8	4227.0	4122.2	3042.7
32.5°	6512.0	6489.6	6370.5	6172.4	5927.3	5746.3	5486.9	5216.0	4537.4	4436.0	3259.1
35°	6958.7	6932.3	6787.4	6607.0	6352.8	6170.7	5858.5	5516.7	4863.8	4764.7	3476.2
37.5°	7285.1	7254.2	7105.3	6919.7	6700.4	6594.4	6289.8	5843.7	5220.0	5113.5	3704.7
40°	7398.5	7371.6	7278.2	7142.5	6966.1	6942.1	6747.4	6219.9	5607.7	5494.3	3963.5
42.5°	7330.9	7304.6	7271.4	7225.5	7152.2	7175.1	7179.2	6648.9	6038.4	5926.7	4249.3
45°	7062.9	7039.4	7073.8	7140.8	7231.8	7345.2	7573.2	7109.9	6519.4	6400.3	4579.7
47.5°	6668.3	6651.1	6746.2	6913.4	7179.7	7492.4	7933.4	7594.4	7059.5	6948.9	4992.1
50°	6107.1	6104.2	6294.4	6599.6	7009.1	7563.4	8305.6	8145.3	7809.7	7693.4	5565.3
52.5°	5233.2	5238.9	5612.9	6101.4	6709.6	7515.3	8545.0	8853.1	8682.4	8561.6	6061.9
55°	4401.1	4435.4	4700.6	5405.0	6250.3	7336.6	8627.5	9183.5	9164.1	9049.5	6337.9
57.5°	3586.1	3648.6	3904.0	4562.0	5579.7	6924.9	8582.2	9326.7	9522.6	9435.0	6702.1
60°	2703.1	2731.7	3026.1	3641.1	4718.9	6173.5	8254.1	9404.6	10012.8	9952.1	7230.7
62.5°	1719.8	1791.4	2052.5	2645.8	3674.3	5130.1	7700.9	9403.5	10626.1	10659.4	7912.8
65°	906.0	989.6	1128.2	1639.6	2525.0	3964.7	6868.8	9315.3	11378.6	11425.0	8445.9
67.5°	488.5	512.6	585.9	851.0	1464.4	2685.9	5646.1	8880.0	11814.5	11875.7	8520.4
70°	357.4	370.5	398.0	470.7	737.0	1560.0	4119.9	7893.3	11252.7	11229.7	7570.3
72.5°	274.3	294.9	315.5	344.8	423.8	832.7	2565.0	6181.0	8978.5	8827.3	5658.7
75°	216.5	219.9	249.1	275.5	317.8	474.2	1139.1	3599.9	5480.0	5122.1	2934.4
77.5°	173.0	175.2	192.4	215.3	255.4	311.5	352.8	1416.2	1749.5	1561.1	636.8
80°	102.5	108.2	143.2	166.1	211.9	196.4	128.9	307.5	273.2	247.4	107.1
82.5°	57.3	61.8	80.7	131.1	147.8	93.9	64.1	83.0	64.1	62.4	30.4
85°	0.0	2.9	52.1	81.3	60.1	20.6	26.9	27.5	18.9	17.8	12.0
87.5°	0.0	0.0	16.0	15.5	2.3	3.4	6.3	9.2	7.4	7.4	6.3
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: P1209566

CATALOG NUMBER: UPW-SA2-130-740-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1108.7	1108.7	1108.7	1108.7	1108.7	1108.7	1108.7	1108.7	1108.7	1108.7	1108.7
2.5°	1130.5	1099.6	1041.1	983.9	935.8	896.2	860.7	846.4	835.0	833.3	824.1
5°	1180.9	1118.5	1006.8	915.1	853.9	810.3	773.1	750.2	732.5	725.6	719.3
7.5°	1257.0	1162.5	1002.2	896.8	823.5	750.2	681.5	607.0	560.7	542.9	532.6
10°	1349.8	1221.0	1019.4	891.7	763.4	608.8	494.8	400.3	361.9	349.3	345.9
12.5°	1458.1	1293.7	1049.2	859.6	635.1	432.4	341.3	309.2	300.7	296.6	296.6
15°	1582.3	1373.3	1070.3	766.8	469.6	327.0	295.5	280.6	271.5	266.3	266.9
17.5°	1709.5	1451.2	1060.0	632.2	346.5	290.9	267.4	251.4	238.8	233.7	232.5
20°	1837.7	1523.3	1002.8	470.7	293.2	264.0	237.7	219.9	207.3	202.2	201.0
22.5°	1970.6	1584.6	902.0	345.3	263.4	234.2	208.5	190.7	178.7	174.1	171.8
25°	2100.0	1634.4	761.1	279.5	235.4	206.2	181.5	164.9	154.1	149.5	148.9
27.5°	2220.9	1665.9	597.9	246.8	210.7	181.0	158.6	143.7	134.6	131.1	130.6
30°	2329.7	1668.8	442.1	222.8	189.0	159.2	138.6	125.4	117.4	114.0	112.8
32.5°	2439.6	1644.7	321.8	201.0	168.9	140.3	120.3	110.0	104.2	101.4	101.4
35°	2543.3	1589.2	250.8	182.1	149.5	122.0	105.9	98.5	95.1	92.2	92.2
37.5°	2644.7	1509.6	213.0	165.5	131.1	106.5	93.3	88.8	85.9	83.0	83.0
40°	2747.7	1409.4	193.6	150.0	116.3	94.5	83.0	79.0	76.2	73.9	73.3
42.5°	2874.3	1293.7	181.0	135.7	103.1	83.6	73.3	68.7	66.4	64.1	63.0
45°	3020.9	1194.0	170.7	121.4	92.2	74.4	63.6	59.0	55.6	52.7	52.1
47.5°	3232.2	1121.9	156.9	105.9	81.9	64.7	55.0	49.8	44.7	41.8	41.2
50°	3502.0	1062.3	139.2	92.2	71.6	55.0	45.8	39.5	34.9	32.1	32.1
52.5°	3636.0	984.4	123.1	80.2	60.1	46.4	37.2	29.8	27.5	24.6	24.6
55°	3689.8	924.9	107.1	68.1	49.8	38.4	29.2	22.9	21.2	19.5	18.9
57.5°	3841.0	907.7	93.3	57.8	41.2	30.4	22.3	17.2	16.0	13.7	13.7
60°	4084.4	916.3	80.7	49.3	33.2	23.5	16.6	13.2	12.0	9.7	9.7
62.5°	4347.2	905.4	68.1	42.4	25.8	17.2	11.5	9.7	9.7	5.7	5.2
65°	4397.6	806.3	58.4	34.9	20.0	12.6	7.4	6.3	8.6	1.1	0.0
67.5°	4081.5	625.4	50.4	26.9	14.9	9.7	5.7	2.9	7.4	0.0	0.0
70°	3263.7	397.4	40.7	19.5	11.5	8.0	4.6	1.1	5.7	0.0	0.0
72.5°	2307.9	230.8	32.1	13.7	9.7	6.3	3.4	0.0	3.4	0.0	0.0
75°	1167.1	123.1	20.0	10.3	7.4	4.6	2.3	0.0	0.6	0.0	0.0
77.5°	252.6	57.3	12.6	7.4	5.2	2.9	1.1	0.0	0.0	0.0	0.0
80°	55.0	25.2	8.0	4.6	2.9	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	20.0	13.2	4.0	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.9	6.9	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	2.3	0.6	0.6	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)