

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: P1209640

Luminaire Tested: UPW-SA2-130-827-U-SLL-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209640
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-SA2-130-827-U-SLL-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 CRI, 2700K, 1200mA 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: 7526 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

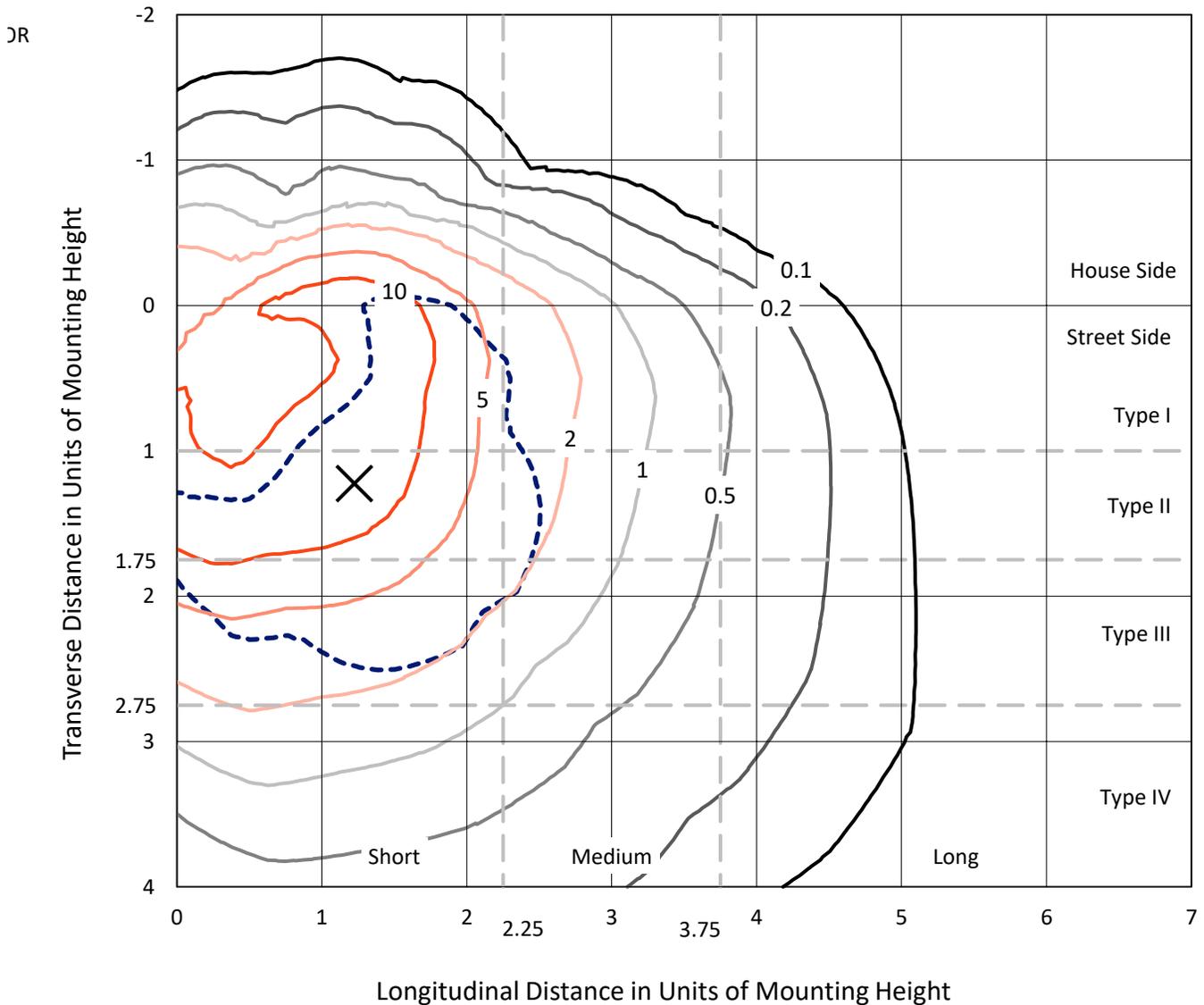
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

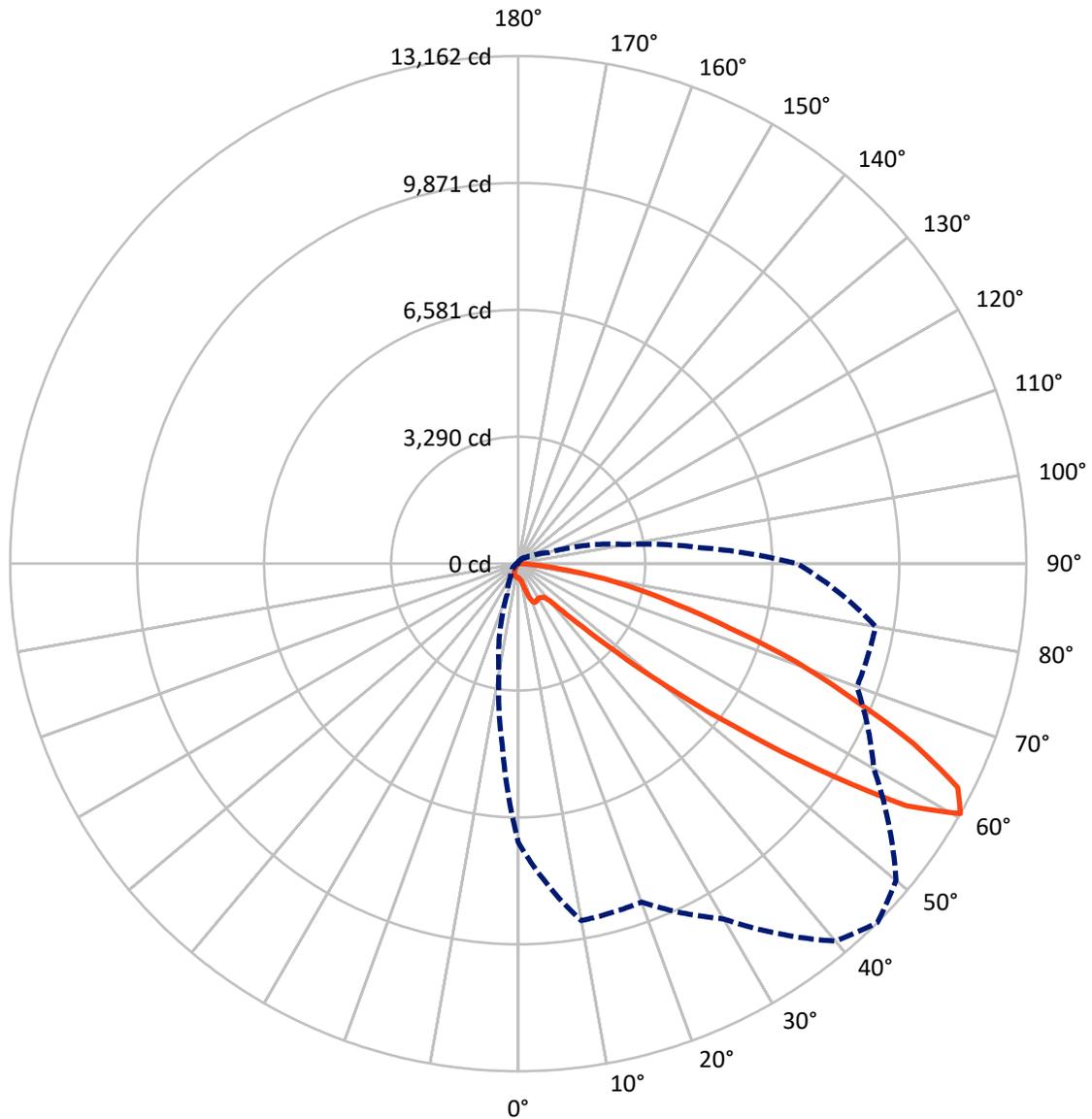
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	867.0	0.0	867.0
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	6659.0	0.0	6659.0
	% Fixture	88.5	0.0	88.5
Total	Lumens	7526.0	0.0	7526.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.2	0.5
10°-20°	116.1	1.5
20°-30°	250.8	3.3
30°-40°	422.5	5.6
40°-50°	853.3	11.3
50°-60°	2194.7	29.2
60°-70°	2386.1	31.7
70°-80°	1124.0	14.9
80°-90°	144.3	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°	7526.0	100.0
0°-180°	7526.0	100.0



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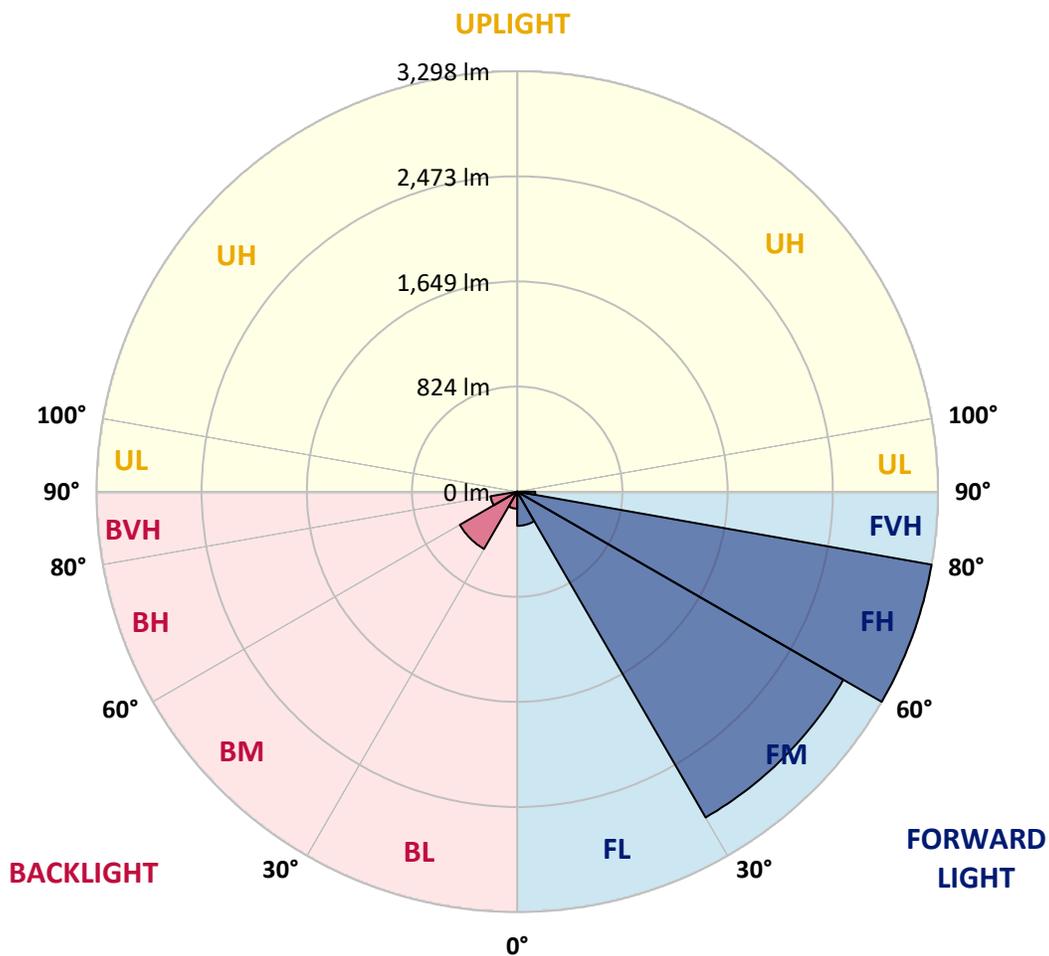
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	267.8	3.6			
FM	(30°-60°)	2951.4	39.2			
FH	(60°-80°)	3297.9	43.8			G2/5000
FVH	(80°-90°)	141.8	1.9			G2/225
BL	(0°-30°)	133.3	1.8	B1/500		
BM	(30°-60°)	519.0	6.9	B1/1000		
BH	(60°-80°)	212.2	2.8	B1/500		G1/500
BVH	(80°-90°)	2.5	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3
2.5°	376.9	378.0	379.2	380.8	382.6	383.4	384.3	384.6	385.0	382.0	385.0
5°	375.6	378.8	382.0	385.8	389.6	391.7	393.7	394.7	395.8	398.6	395.8
7.5°	363.4	371.6	379.7	387.1	394.5	400.1	406.0	410.8	415.7	419.0	415.7
10°	364.7	379.5	394.5	408.9	423.5	434.6	445.8	453.4	460.9	465.0	460.9
12.5°	391.5	415.7	439.7	464.0	488.3	511.1	534.0	549.2	564.4	574.9	564.4
15°	447.1	492.5	537.8	580.2	622.8	658.2	693.7	712.5	731.2	733.3	731.2
17.5°	559.5	625.8	692.1	748.5	804.8	842.5	880.2	898.2	916.2	921.1	916.2
20°	704.5	788.0	871.2	924.4	977.5	1002.8	1028.1	1037.6	1047.0	1041.1	1047.0
22.5°	875.1	963.5	1052.0	1088.4	1124.8	1122.4	1120.1	1112.2	1104.3	1091.0	1104.3
25°	1081.4	1154.8	1228.3	1220.6	1213.0	1181.8	1150.8	1124.4	1098.1	1085.9	1098.1
27.5°	1291.5	1331.3	1371.0	1316.6	1262.2	1202.9	1143.6	1108.5	1073.2	1051.4	1073.2
30°	1542.6	1516.9	1491.1	1394.2	1297.3	1222.3	1147.2	1105.5	1063.9	1038.6	1063.9
32.5°	1805.7	1715.0	1624.3	1486.2	1348.0	1260.7	1173.4	1125.2	1076.9	1046.3	1076.9
35°	2045.9	1897.2	1748.6	1573.6	1398.6	1304.6	1210.8	1155.1	1099.7	1075.6	1099.7
37.5°	2314.2	2090.1	1866.1	1653.8	1441.6	1339.1	1236.6	1185.5	1134.5	1108.9	1134.5
40°	2597.8	2303.3	2008.8	1760.9	1512.8	1422.6	1332.4	1298.9	1265.5	1258.3	1265.5
42.5°	2942.7	2581.0	2219.2	1954.0	1688.8	1646.2	1603.5	1614.9	1626.1	1672.2	1626.1
45°	3566.1	3124.2	2682.5	2383.0	2083.6	2099.4	2115.3	2202.3	2289.4	2340.3	2289.4
47.5°	4475.7	3995.2	3514.6	3132.5	2750.4	2856.7	2963.1	3174.4	3385.8	3431.3	3385.8
50°	5681.0	5170.1	4659.2	4182.3	3705.3	3929.5	4153.7	4557.7	4961.5	5028.2	4961.5
52.5°	6769.4	6375.4	5981.4	5423.4	4865.3	5246.0	5626.7	6219.6	6812.6	6994.2	6812.6
55°	7463.1	7591.8	7720.5	7134.7	6549.0	7013.3	7477.4	8258.7	9040.0	9388.2	9040.0
57.5°	7704.5	8465.4	9226.2	8816.0	8405.8	8884.9	9363.9	10329.5	11295.0	11844.8	11295.0
60°	7222.9	8311.8	9400.7	9368.5	9336.5	9986.6	10636.6	11707.4	12778.1	13161.9	12778.1
62.5°	6427.7	7325.7	8223.8	8386.9	8550.2	9466.0	10381.8	11381.9	12381.9	12774.8	12381.9
65°	5496.4	6299.8	7103.1	7229.3	7355.5	8333.3	9311.3	10214.5	11117.7	11250.8	11117.7
67.5°	4709.4	5522.6	6335.7	6415.0	6494.5	7326.4	8158.3	8827.9	9497.6	9333.3	9497.6
70°	3886.1	4746.0	5605.8	5737.3	5868.8	6457.7	7046.6	7438.0	7829.4	7631.7	7829.4
72.5°	2961.8	3832.7	4703.7	4825.1	4946.4	5355.3	5764.3	5957.9	6151.3	5761.4	6151.3
75°	2063.8	2812.2	3560.6	3720.0	3879.5	4166.1	4453.0	4531.0	4608.9	4248.9	4608.9
77.5°	1106.9	1608.6	2110.4	2392.9	2675.3	2986.2	3297.2	3334.2	3371.3	3132.4	3371.3
80°	325.8	555.7	785.7	1117.7	1449.7	1823.2	2197.0	2215.0	2233.0	2055.5	2233.0
82.5°	98.4	198.1	297.9	528.9	759.8	1031.4	1303.0	1277.5	1251.8	1071.8	1251.8
85°	21.7	69.0	116.3	256.8	397.3	521.3	645.4	594.9	544.5	442.0	544.5
87.5°	3.2	19.0	34.7	91.5	148.2	178.8	209.5	171.1	132.6	120.1	132.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3
2.5°	384.6	384.3	383.4	382.6	380.8	379.2	378.0	376.9	378.1	377.1	375.6
5°	394.7	393.7	391.7	389.6	385.8	382.0	378.8	375.6	370.7	366.9	364.3
7.5°	410.8	406.0	400.1	394.5	387.1	379.7	371.6	363.4	358.5	353.9	350.0
10°	453.4	445.8	434.6	423.5	408.9	394.5	379.5	364.7	358.6	350.7	344.7
12.5°	549.2	534.0	511.1	488.3	464.0	439.7	415.7	391.5	376.5	360.0	347.7
15°	712.5	693.7	658.2	622.8	580.2	537.8	492.5	447.1	416.2	386.4	363.8
17.5°	898.2	880.2	842.5	804.8	748.5	692.1	625.8	559.5	492.0	435.0	393.6
20°	1037.6	1028.1	1002.8	977.5	924.4	871.2	788.0	704.5	601.2	508.4	440.6
22.5°	1112.2	1120.1	1122.4	1124.8	1088.4	1052.0	963.5	875.1	749.9	619.3	515.8
25°	1124.4	1150.8	1181.8	1213.0	1220.6	1228.3	1154.8	1081.4	928.1	751.4	604.9
27.5°	1108.5	1143.6	1202.9	1262.2	1316.6	1371.0	1331.3	1291.5	1129.2	920.4	726.4
30°	1105.5	1147.2	1222.3	1297.3	1394.2	1491.1	1516.9	1542.6	1359.1	1108.6	862.6
32.5°	1125.2	1173.4	1260.7	1348.0	1486.2	1624.3	1715.0	1805.7	1611.3	1318.6	1015.1
35°	1155.1	1210.8	1304.6	1398.6	1573.6	1748.6	1897.2	2045.9	1867.9	1548.1	1188.7
37.5°	1185.5	1236.6	1339.1	1441.6	1653.8	1866.1	2090.1	2314.2	2149.9	1806.1	1384.9
40°	1298.9	1332.4	1422.6	1512.8	1760.9	2008.8	2303.3	2597.8	2459.2	2080.4	1588.2
42.5°	1614.9	1603.5	1646.2	1688.8	1954.0	2219.2	2581.0	2942.7	2788.2	2355.9	1785.4
45°	2202.3	2115.3	2099.4	2083.6	2383.0	2682.5	3124.2	3566.1	3261.9	2688.8	2001.9
47.5°	3174.4	2963.1	2856.7	2750.4	3132.5	3514.6	3995.2	4475.7	3967.9	3115.5	2244.4
50°	4557.7	4153.7	3929.5	3705.3	4182.3	4659.2	5170.1	5681.0	4797.8	3560.3	2476.9
52.5°	6219.6	5626.7	5246.0	4865.3	5423.4	5981.4	6375.4	6769.4	5392.9	3806.9	2576.8
55°	8258.7	7477.4	7013.3	6549.0	7134.7	7720.5	7591.8	7463.1	5619.0	3808.4	2527.6
57.5°	10329.5	9363.9	8884.9	8405.8	8816.0	9226.2	8465.4	7704.5	5334.1	3456.6	2276.6
60°	11707.4	10636.6	9986.6	9336.5	9368.5	9400.7	8311.8	7222.9	4745.5	2856.5	1844.0
62.5°	11381.9	10381.8	9466.0	8550.2	8386.9	8223.8	7325.7	6427.7	4042.1	2308.7	1462.7
65°	10214.5	9311.3	8333.3	7355.5	7229.3	7103.1	6299.8	5496.4	3383.9	1863.6	1149.0
67.5°	8827.9	8158.3	7326.4	6494.5	6415.0	6335.7	5522.6	4709.4	2720.5	1434.9	853.5
70°	7438.0	7046.6	6457.7	5868.8	5737.3	5605.8	4746.0	3886.1	2107.0	1075.6	633.4
72.5°	5957.9	5764.3	5355.3	4946.4	4825.1	4703.7	3832.7	2961.8	1453.4	709.6	421.1
75°	4531.0	4453.0	4166.1	3879.5	3720.0	3560.6	2812.2	2063.8	928.2	436.9	264.6
77.5°	3334.2	3297.2	2986.2	2675.3	2392.9	2110.4	1608.6	1106.9	486.3	229.3	144.1
80°	2215.0	2197.0	1823.2	1449.7	1117.7	785.7	555.7	325.8	147.5	78.9	57.6
82.5°	1277.5	1303.0	1031.4	759.8	528.9	297.9	198.1	98.4	45.0	28.1	24.0
85°	594.9	645.4	521.3	397.3	256.8	116.3	69.0	21.7	11.0	8.7	7.9
87.5°	171.1	209.5	178.8	148.2	91.5	34.7	19.0	3.2	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3
2.5°	374.0	373.3	372.8	372.3	371.7	370.5	370.0	370.3	370.7	370.2	369.4
5°	361.8	359.5	357.1	354.5	351.9	350.0	347.0	347.0	346.8	347.7	348.8
7.5°	346.2	343.0	339.8	337.5	335.3	334.1	333.7	331.4	329.3	329.3	329.3
10°	338.5	334.7	330.9	327.3	323.8	320.6	321.3	319.9	318.3	317.5	316.6
12.5°	335.7	329.5	323.2	319.4	315.5	313.0	311.5	309.5	307.6	306.5	305.3
15°	341.1	330.2	319.4	314.4	309.4	305.3	300.0	298.8	297.7	296.2	294.8
17.5°	352.3	333.7	315.3	308.5	301.7	297.0	294.1	291.0	288.1	285.5	283.0
20°	372.8	342.9	313.0	303.8	294.5	290.0	285.4	281.4	277.5	274.0	270.6
22.5°	412.4	363.6	314.9	300.5	286.2	279.8	272.4	268.8	265.5	261.2	257.0
25°	458.4	386.3	314.3	294.1	274.0	267.0	262.9	257.9	252.9	248.3	243.7
27.5°	532.5	425.4	318.3	291.0	263.4	254.9	250.5	245.8	241.2	236.3	231.5
30°	616.8	472.4	328.1	290.5	252.9	242.1	238.1	234.0	229.9	225.0	220.0
32.5°	711.6	525.3	339.2	292.3	245.3	233.8	226.4	221.8	217.2	212.7	208.2
35°	829.3	592.5	355.4	293.7	231.9	219.1	212.8	209.0	205.0	200.1	195.2
37.5°	963.9	667.6	371.5	295.0	218.4	204.4	200.3	197.2	194.2	188.9	183.7
40°	1096.1	741.5	386.8	297.1	207.6	192.3	187.3	185.1	182.9	177.8	172.7
42.5°	1214.9	807.6	400.5	301.0	201.6	177.6	175.1	172.3	169.6	164.8	159.9
45°	1315.2	863.8	412.6	308.4	204.1	164.8	160.5	158.0	155.6	152.3	149.2
47.5°	1373.3	898.1	422.8	319.5	216.2	156.5	143.8	142.3	140.8	139.9	139.0
50°	1393.5	913.3	433.1	336.1	239.1	164.8	139.2	134.0	128.8	128.8	128.8
52.5°	1346.7	888.1	429.5	346.5	263.4	192.9	147.0	131.8	116.5	116.3	116.0
55°	1246.8	829.2	411.6	347.7	283.9	231.9	166.2	136.4	106.7	104.0	101.2
57.5°	1096.7	747.2	397.6	336.6	275.7	247.2	181.7	141.5	101.2	93.5	85.8
60°	831.6	619.8	408.2	326.5	245.0	222.3	178.1	139.2	100.7	86.9	73.1
62.5°	616.8	493.6	370.5	290.8	211.0	176.3	159.0	130.9	102.8	83.5	64.1
65°	434.3	376.6	318.7	259.1	199.3	138.6	131.3	116.0	100.7	79.7	58.8
67.5°	272.1	246.4	220.7	194.8	168.9	115.6	102.5	91.3	80.2	65.9	51.7
70°	191.0	176.0	161.0	147.7	134.4	97.7	79.5	70.0	60.7	53.1	45.7
72.5°	132.6	121.9	111.1	104.2	97.3	80.5	61.6	53.1	44.7	40.1	35.5
75°	92.2	84.3	76.4	70.1	63.9	53.0	40.1	34.0	27.8	25.4	23.0
77.5°	58.8	52.6	46.6	41.4	36.0	33.2	24.9	21.5	17.9	17.1	16.4
80°	36.4	32.2	28.1	24.0	19.8	18.5	12.8	11.4	10.0	10.0	10.0
82.5°	19.8	17.4	15.1	12.1	9.2	7.7	5.4	4.6	3.8	3.8	3.8
85°	7.4	6.4	5.4	4.3	3.2	1.9	0.8	1.0	1.3	1.1	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: UPW-SA2-130-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3
2.5°	368.4	367.3	368.2	369.2	368.0	366.9	367.1	367.3	366.0	364.7	363.3
5°	348.9	349.0	350.5	351.9	352.5	352.8	353.4	353.9	354.1	354.5	354.6
7.5°	329.6	329.8	330.7	331.5	332.7	333.7	336.5	339.2	340.6	342.1	343.8
10°	315.8	315.3	318.0	320.6	321.4	322.2	325.5	328.6	330.4	332.1	333.6
12.5°	304.0	302.8	304.0	305.3	307.7	310.2	314.8	319.4	322.9	326.4	327.2
15°	293.6	292.3	293.3	294.5	295.7	297.0	301.6	306.3	310.3	314.3	316.2
17.5°	280.8	278.5	277.5	276.6	280.8	284.9	288.8	292.8	297.0	301.2	304.8
20°	267.8	265.1	264.4	263.8	265.6	267.2	272.4	277.5	282.6	287.7	289.3
22.5°	253.2	249.4	248.3	247.2	248.1	249.1	251.7	254.2	258.1	261.9	264.7
25°	239.7	235.7	232.5	229.3	229.4	229.7	231.1	232.5	233.9	235.3	237.0
27.5°	226.9	222.3	218.2	214.0	212.3	210.8	209.4	208.0	207.6	207.2	207.0
30°	214.5	208.9	204.4	199.9	195.3	190.6	187.7	184.6	181.4	178.2	175.8
32.5°	202.9	197.4	189.3	181.4	176.5	171.8	166.2	160.7	154.8	149.2	145.4
35°	189.1	182.9	175.5	168.0	159.8	151.8	143.6	135.4	127.7	120.1	115.7
37.5°	176.2	168.6	160.7	152.7	141.3	130.0	120.6	111.1	103.3	95.6	91.0
40°	164.0	155.2	144.4	133.5	121.2	108.8	98.6	88.4	81.0	73.5	69.6
42.5°	151.5	143.1	130.6	118.2	104.6	91.0	80.4	69.6	63.2	56.8	53.4
45°	139.5	130.0	115.5	100.9	88.1	75.4	66.2	56.8	50.8	44.7	42.0
47.5°	128.8	118.6	103.3	88.1	76.0	63.9	55.2	46.6	41.0	35.5	33.0
50°	118.3	107.9	92.6	77.3	66.2	54.9	47.3	39.6	34.4	29.1	26.6
52.5°	106.8	97.7	82.8	67.7	58.9	50.1	42.8	35.5	29.9	24.3	21.7
55°	93.1	85.0	72.6	60.0	52.1	44.1	37.6	30.9	25.0	19.2	16.5
57.5°	79.1	72.2	61.6	51.1	44.5	37.7	31.4	25.3	19.7	14.1	11.8
60°	66.9	60.7	51.7	42.8	36.3	29.6	24.3	18.9	13.9	8.9	6.6
62.5°	57.7	51.4	42.7	33.9	28.6	23.3	18.5	13.8	9.1	4.5	2.4
65°	51.0	43.2	35.6	28.1	22.4	16.6	12.3	7.9	4.9	1.5	0.8
67.5°	43.3	34.7	27.6	20.4	15.5	10.5	6.9	3.2	1.5	0.0	0.0
70°	36.4	27.1	19.3	11.5	7.7	3.8	2.3	0.6	0.3	0.0	0.0
72.5°	27.6	19.8	12.5	5.1	3.3	1.5	1.0	0.3	0.1	0.0	0.0
75°	18.4	13.8	8.8	3.8	2.4	1.0	0.5	0.0	0.0	0.0	0.0
77.5°	13.5	10.9	6.6	2.6	1.5	0.6	0.3	0.0	0.0	0.0	0.0
80°	8.2	6.4	3.8	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.2	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.6	0.3	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



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3
2.5°	361.8	361.5	361.8	363.3	364.7	366.0	367.3	367.1	366.9	368.0	369.2
5°	354.9	355.1	354.9	354.6	354.5	354.1	353.9	353.4	352.8	352.5	351.9
7.5°	345.6	348.8	345.6	343.8	342.1	340.6	339.2	336.5	333.7	332.7	331.5
10°	335.0	337.3	335.0	333.6	332.1	330.4	328.6	325.5	322.2	321.4	320.6
12.5°	328.1	328.3	328.1	327.2	326.4	322.9	319.4	314.8	310.2	307.7	305.3
15°	318.1	319.4	318.1	316.2	314.3	310.3	306.3	301.6	297.0	295.7	294.5
17.5°	308.5	310.4	308.5	304.8	301.2	297.0	292.8	288.8	284.9	280.8	276.6
20°	291.0	290.0	291.0	289.3	287.7	282.6	277.5	272.4	267.2	265.6	263.8
22.5°	267.6	270.8	267.6	264.7	261.9	258.1	254.2	251.7	249.1	248.1	247.2
25°	238.6	240.2	238.6	237.0	235.3	233.9	232.5	231.1	229.7	229.4	229.3
27.5°	206.7	205.7	206.7	207.0	207.2	207.6	208.0	209.4	210.8	212.3	214.0
30°	173.5	172.5	173.5	175.8	178.2	181.4	184.6	187.7	190.6	195.3	199.9
32.5°	141.5	139.2	141.5	145.4	149.2	154.8	160.7	166.2	171.8	176.5	181.4
35°	111.4	109.9	111.4	115.7	120.1	127.7	135.4	143.6	151.8	159.8	168.0
37.5°	86.6	84.3	86.6	91.0	95.6	103.3	111.1	120.6	130.0	141.3	152.7
40°	65.8	63.9	65.8	69.6	73.5	81.0	88.4	98.6	108.8	121.2	133.5
42.5°	49.8	47.3	49.8	53.4	56.8	63.2	69.6	80.4	91.0	104.6	118.2
45°	39.3	38.3	39.3	42.0	44.7	50.8	56.8	66.2	75.4	88.1	100.9
47.5°	30.4	29.4	30.4	33.0	35.5	41.0	46.6	55.2	63.9	76.0	88.1
50°	24.0	23.0	24.0	26.6	29.1	34.4	39.6	47.3	54.9	66.2	77.3
52.5°	19.2	17.9	19.2	21.7	24.3	29.9	35.5	42.8	50.1	58.9	67.7
55°	13.8	12.8	13.8	16.5	19.2	25.0	30.9	37.6	44.1	52.1	60.0
57.5°	9.6	8.9	9.6	11.8	14.1	19.7	25.3	31.4	37.7	44.5	51.1
60°	4.5	3.8	4.5	6.6	8.9	13.9	18.9	24.3	29.6	36.3	42.8
62.5°	0.3	0.0	0.3	2.4	4.5	9.1	13.8	18.5	23.3	28.6	33.9
65°	0.0	0.0	0.0	0.8	1.5	4.9	7.9	12.3	16.6	22.4	28.1
67.5°	0.0	0.0	0.0	0.0	0.0	1.5	3.2	6.9	10.5	15.5	20.4
70°	0.0	0.0	0.0	0.0	0.0	0.3	0.6	2.3	3.8	7.7	11.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.0	1.5	3.3	5.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	2.4	3.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	1.5	2.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3
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



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3
2.5°	368.2	367.3	368.4	369.4	370.2	370.7	370.3	370.0	370.5	371.7	372.3
5°	350.5	349.0	348.9	348.8	347.7	346.8	347.0	347.0	350.0	351.9	354.5
7.5°	330.7	329.8	329.6	329.3	329.3	329.3	331.4	333.7	334.1	335.3	337.5
10°	318.0	315.3	315.8	316.6	317.5	318.3	319.9	321.3	320.6	323.8	327.3
12.5°	304.0	302.8	304.0	305.3	306.5	307.6	309.5	311.5	313.0	315.5	319.4
15°	293.3	292.3	293.6	294.8	296.2	297.7	298.8	300.0	305.3	309.4	314.4
17.5°	277.5	278.5	280.8	283.0	285.5	288.1	291.0	294.1	297.0	301.7	308.5
20°	264.4	265.1	267.8	270.6	274.0	277.5	281.4	285.4	290.0	294.5	303.8
22.5°	248.3	249.4	253.2	257.0	261.2	265.5	268.8	272.4	279.8	286.2	300.5
25°	232.5	235.7	239.7	243.7	248.3	252.9	257.9	262.9	267.0	274.0	294.1
27.5°	218.2	222.3	226.9	231.5	236.3	241.2	245.8	250.5	254.9	263.4	291.0
30°	204.4	208.9	214.5	220.0	225.0	229.9	234.0	238.1	242.1	252.9	290.5
32.5°	189.3	197.4	202.9	208.2	212.7	217.2	221.8	226.4	233.8	245.3	292.3
35°	175.5	182.9	189.1	195.2	200.1	205.0	209.0	212.8	219.1	231.9	293.7
37.5°	160.7	168.6	176.2	183.7	188.9	194.2	197.2	200.3	204.4	218.4	295.0
40°	144.4	155.2	164.0	172.7	177.8	182.9	185.1	187.3	192.3	207.6	297.1
42.5°	130.6	143.1	151.5	159.9	164.8	169.6	172.3	175.1	177.6	201.6	301.0
45°	115.5	130.0	139.5	149.2	152.3	155.6	158.0	160.5	164.8	204.1	308.4
47.5°	103.3	118.6	128.8	139.0	139.9	140.8	142.3	143.8	156.5	216.2	319.5
50°	92.6	107.9	118.3	128.8	128.8	128.8	134.0	139.2	164.8	239.1	336.1
52.5°	82.8	97.7	106.8	116.0	116.3	116.5	131.8	147.0	192.9	263.4	346.5
55°	72.6	85.0	93.1	101.2	104.0	106.7	136.4	166.2	231.9	283.9	347.7
57.5°	61.6	72.2	79.1	85.8	93.5	101.2	141.5	181.7	247.2	275.7	336.6
60°	51.7	60.7	66.9	73.1	86.9	100.7	139.2	178.1	222.3	245.0	326.5
62.5°	42.7	51.4	57.7	64.1	83.5	102.8	130.9	159.0	176.3	211.0	290.8
65°	35.6	43.2	51.0	58.8	79.7	100.7	116.0	131.3	138.6	199.3	259.1
67.5°	27.6	34.7	43.3	51.7	65.9	80.2	91.3	102.5	115.6	168.9	194.8
70°	19.3	27.1	36.4	45.7	53.1	60.7	70.0	79.5	97.7	134.4	147.7
72.5°	12.5	19.8	27.6	35.5	40.1	44.7	53.1	61.6	80.5	97.3	104.2
75°	8.8	13.8	18.4	23.0	25.4	27.8	34.0	40.1	53.0	63.9	70.1
77.5°	6.6	10.9	13.5	16.4	17.1	17.9	21.5	24.9	33.2	36.0	41.4
80°	3.8	6.4	8.2	10.0	10.0	10.0	11.4	12.8	18.5	19.8	24.0
82.5°	1.3	2.6	3.2	3.8	3.8	3.8	4.6	5.4	7.7	9.2	12.1
85°	0.1	0.3	0.6	1.0	1.1	1.3	1.0	0.8	1.9	3.2	4.3
87.5°	0.0	0.0	0.1	0.3	0.3	0.3	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



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	374.3	374.3	374.3	374.3	374.3	374.3	374.3
2.5°	372.8	373.3	374.0	375.6	377.1	378.1	376.9
5°	357.1	359.5	361.8	364.3	366.9	370.7	375.6
7.5°	339.8	343.0	346.2	350.0	353.9	358.5	363.4
10°	330.9	334.7	338.5	344.7	350.7	358.6	364.7
12.5°	323.2	329.5	335.7	347.7	360.0	376.5	391.5
15°	319.4	330.2	341.1	363.8	386.4	416.2	447.1
17.5°	315.3	333.7	352.3	393.6	435.0	492.0	559.5
20°	313.0	342.9	372.8	440.6	508.4	601.2	704.5
22.5°	314.9	363.6	412.4	515.8	619.3	749.9	875.1
25°	314.3	386.3	458.4	604.9	751.4	928.1	1081.4
27.5°	318.3	425.4	532.5	726.4	920.4	1129.2	1291.5
30°	328.1	472.4	616.8	862.6	1108.6	1359.1	1542.6
32.5°	339.2	525.3	711.6	1015.1	1318.6	1611.3	1805.7
35°	355.4	592.5	829.3	1188.7	1548.1	1867.9	2045.9
37.5°	371.5	667.6	963.9	1384.9	1806.1	2149.9	2314.2
40°	386.8	741.5	1096.1	1588.2	2080.4	2459.2	2597.8
42.5°	400.5	807.6	1214.9	1785.4	2355.9	2788.2	2942.7
45°	412.6	863.8	1315.2	2001.9	2688.8	3261.9	3566.1
47.5°	422.8	898.1	1373.3	2244.4	3115.5	3967.9	4475.7
50°	433.1	913.3	1393.5	2476.9	3560.3	4797.8	5681.0
52.5°	429.5	888.1	1346.7	2576.8	3806.9	5392.9	6769.4
55°	411.6	829.2	1246.8	2527.6	3808.4	5619.0	7463.1
57.5°	397.6	747.2	1096.7	2276.6	3456.6	5334.1	7704.5
60°	408.2	619.8	831.6	1844.0	2856.5	4745.5	7222.9
62.5°	370.5	493.6	616.8	1462.7	2308.7	4042.1	6427.7
65°	318.7	376.6	434.3	1149.0	1863.6	3383.9	5496.4
67.5°	220.7	246.4	272.1	853.5	1434.9	2720.5	4709.4
70°	161.0	176.0	191.0	633.4	1075.6	2107.0	3886.1
72.5°	111.1	121.9	132.6	421.1	709.6	1453.4	2961.8
75°	76.4	84.3	92.2	264.6	436.9	928.2	2063.8
77.5°	46.6	52.6	58.8	144.1	229.3	486.3	1106.9
80°	28.1	32.2	36.4	57.6	78.9	147.5	325.8
82.5°	15.1	17.4	19.8	24.0	28.1	45.0	98.4
85°	5.4	6.4	7.4	7.9	8.7	11.0	21.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)