

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: P1209019

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

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-947-2)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-730-U-SLL-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR
LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6866 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

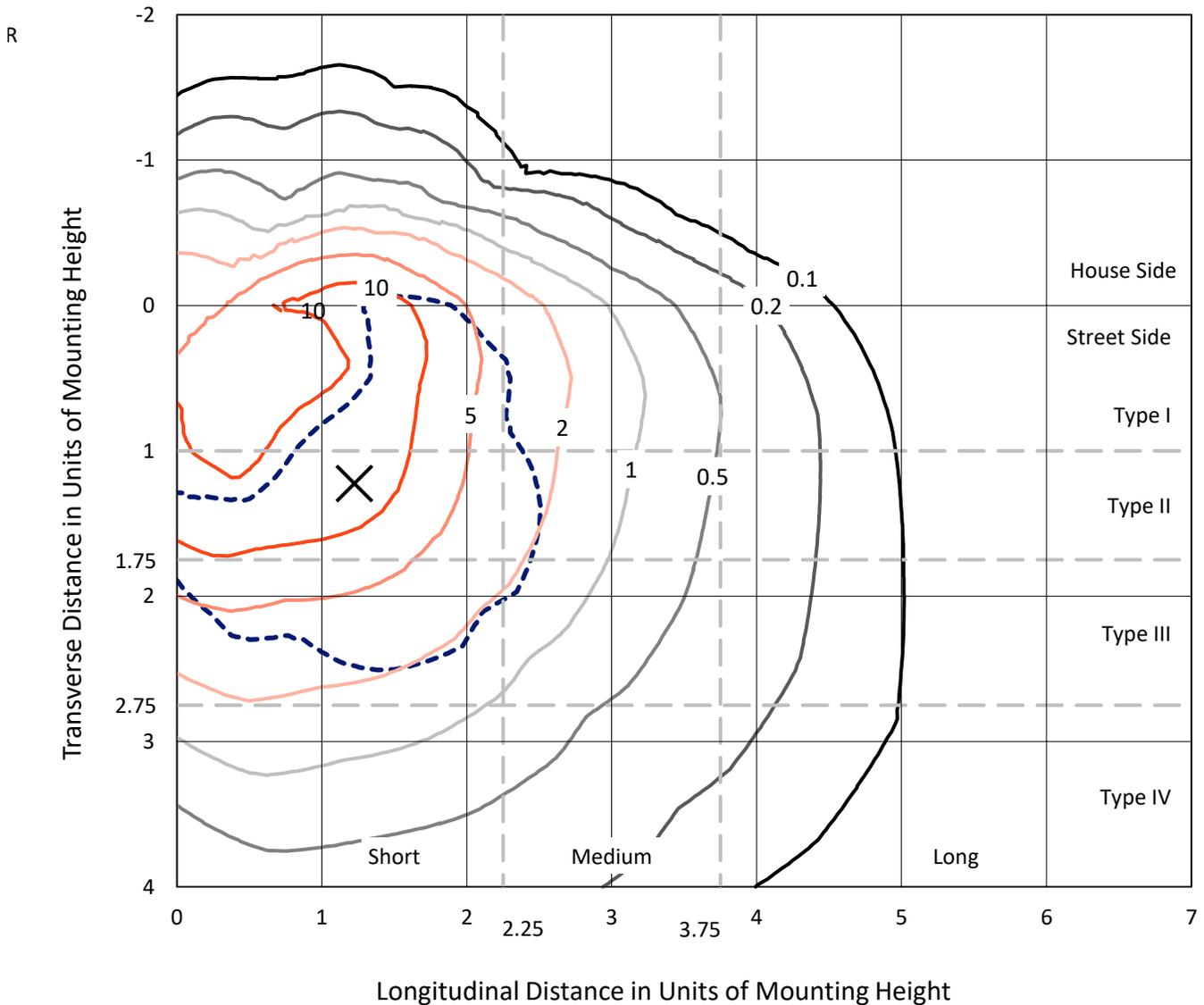
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

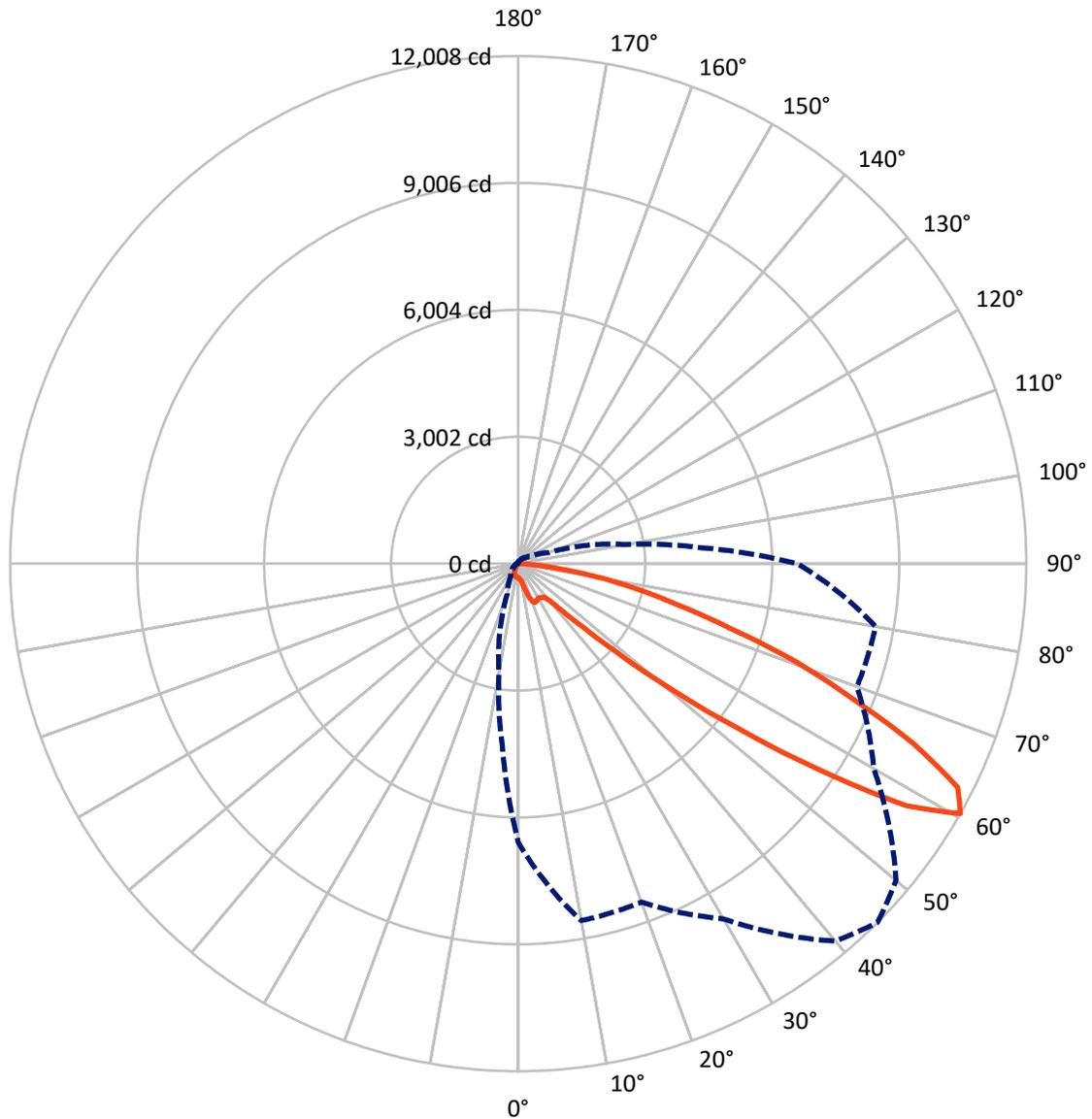
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.5 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	791.0	0.0	791.0
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	6075.0	0.0	6075.0
	% Fixture	88.5	0.0	88.5
Total	Lumens	6866.0	0.0	6866.0
	% 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°	228.8	3.3
30°-40°	385.5	5.6
40°-50°	778.4	11.3
50°-60°	2002.2	29.2
60°-70°	2176.8	31.7
70°-80°	1025.5	14.9
80°-90°	131.7	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°	6866.0	100.0
0°-180°	6866.0	100.0



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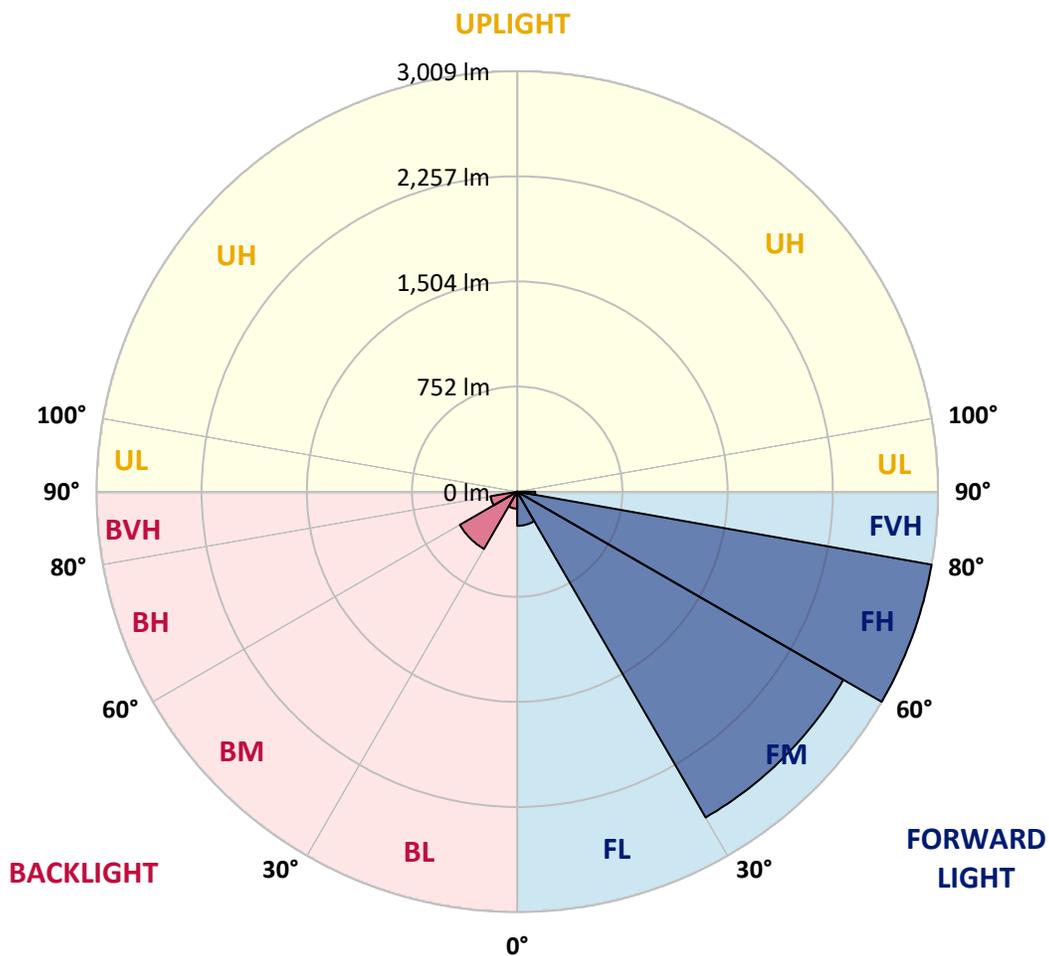
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	244.3	3.6			
FM	(30°-60°)	2692.6	39.2			
FH	(60°-80°)	3008.7	43.8			G2/5000
FVH	(80°-90°)	129.3	1.9			G2/225
BL	(0°-30°)	121.6	1.8	B1/500		
BM	(30°-60°)	473.5	6.9	B1/1000		
BH	(60°-80°)	193.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5
2.5°	343.8	344.9	345.9	347.4	349.1	349.8	350.6	350.9	351.3	348.5	351.3
5°	342.6	345.6	348.5	352.0	355.5	357.3	359.2	360.1	361.1	363.6	361.1
7.5°	331.6	339.0	346.4	353.1	359.9	365.0	370.4	374.8	379.2	382.3	379.2
10°	332.7	346.3	359.9	373.1	386.3	396.5	406.7	413.6	420.5	424.2	420.5
12.5°	357.2	379.2	401.1	423.3	445.4	466.3	487.2	501.0	514.9	524.5	514.9
15°	407.9	449.3	490.7	529.3	568.2	600.4	632.8	650.0	667.1	669.0	667.1
17.5°	510.5	571.0	631.4	682.8	734.2	768.6	803.0	819.4	835.9	840.3	835.9
20°	642.7	718.9	794.8	843.3	891.8	914.9	938.0	946.6	955.2	949.8	955.2
22.5°	798.3	879.0	959.8	993.0	1026.2	1024.0	1021.9	1014.6	1007.4	995.3	1007.4
25°	986.6	1053.6	1120.6	1113.6	1106.6	1078.2	1049.8	1025.8	1001.8	990.6	1001.8
27.5°	1178.3	1214.5	1250.8	1201.1	1151.5	1097.4	1043.3	1011.3	979.1	959.2	979.1
30°	1407.3	1383.9	1360.3	1272.0	1183.5	1115.1	1046.6	1008.6	970.6	947.5	970.6
32.5°	1647.4	1564.6	1481.9	1355.9	1229.8	1150.2	1070.5	1026.5	982.5	954.5	982.5
35°	1866.5	1730.8	1595.3	1435.6	1275.9	1190.2	1104.6	1053.8	1003.2	981.3	1003.2
37.5°	2111.2	1906.8	1702.5	1508.8	1315.2	1221.6	1128.2	1081.5	1035.0	1011.6	1035.0
40°	2369.9	2101.3	1832.7	1606.5	1380.1	1297.8	1215.6	1185.0	1154.5	1148.0	1154.5
42.5°	2684.6	2354.7	2024.6	1782.7	1540.7	1501.8	1462.9	1473.2	1483.5	1525.6	1483.5
45°	3253.4	2850.2	2447.2	2174.0	1900.9	1915.3	1929.8	2009.1	2088.6	2135.1	2088.6
47.5°	4083.2	3644.8	3206.4	2857.8	2509.2	2606.2	2703.3	2896.0	3088.9	3130.4	3088.9
50°	5182.8	4716.7	4250.6	3815.6	3380.4	3584.9	3789.5	4158.0	4526.4	4587.2	4526.4
52.5°	6175.7	5816.3	5456.9	4947.8	4438.6	4785.9	5133.2	5674.1	6215.1	6380.9	6215.1
55°	6808.6	6926.1	7043.4	6509.1	5974.7	6398.2	6821.6	7534.4	8247.2	8564.9	8247.2
57.5°	7028.8	7723.0	8417.1	8042.9	7668.7	8105.7	8542.8	9423.6	10304.5	10806.1	10304.5
60°	6589.5	7582.9	8576.3	8547.0	8517.7	9110.8	9703.8	10680.7	11657.6	12007.7	11657.6
62.5°	5864.0	6683.3	7502.6	7651.4	7800.4	8635.9	9471.4	10383.7	11296.0	11654.5	11296.0
65°	5014.4	5747.3	6480.1	6595.3	6710.4	7602.5	8494.7	9318.7	10142.7	10264.1	10142.7
67.5°	4296.4	5038.3	5780.1	5852.4	5924.9	6683.9	7442.8	8053.7	8664.7	8514.8	8664.7
70°	3545.3	4329.8	5114.2	5234.2	5354.1	5891.4	6428.6	6785.7	7142.8	6962.4	7142.8
72.5°	2702.1	3496.6	4291.2	4401.9	4512.6	4885.7	5258.8	5435.4	5611.9	5256.2	5611.9
75°	1882.8	2565.6	3248.3	3393.8	3539.2	3800.8	4062.5	4133.6	4204.7	3876.3	4204.7
77.5°	1009.9	1467.5	1925.3	2183.0	2440.7	2724.4	3008.0	3041.8	3075.6	2857.7	3075.6
80°	297.2	507.0	716.8	1019.7	1322.6	1663.3	2004.3	2020.8	2037.2	1875.2	2037.2
82.5°	89.7	180.8	271.8	482.5	693.2	941.0	1188.8	1165.5	1142.0	977.8	1142.0
85°	19.8	62.9	106.1	234.3	362.5	475.6	588.8	542.8	496.7	403.2	496.7
87.5°	2.9	17.4	31.7	83.4	135.2	163.2	191.1	156.1	121.0	109.6	121.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5
2.5°	350.9	350.6	349.8	349.1	347.4	345.9	344.9	343.8	345.0	344.0	342.6
5°	360.1	359.2	357.3	355.5	352.0	348.5	345.6	342.6	338.2	334.7	332.4
7.5°	374.8	370.4	365.0	359.9	353.1	346.4	339.0	331.6	327.0	322.8	319.3
10°	413.6	406.7	396.5	386.3	373.1	359.9	346.3	332.7	327.1	319.9	314.4
12.5°	501.0	487.2	466.3	445.4	423.3	401.1	379.2	357.2	343.5	328.4	317.2
15°	650.0	632.8	600.4	568.2	529.3	490.7	449.3	407.9	379.7	352.5	331.9
17.5°	819.4	803.0	768.6	734.2	682.8	631.4	571.0	510.5	448.8	396.8	359.1
20°	946.6	938.0	914.9	891.8	843.3	794.8	718.9	642.7	548.5	463.9	402.0
22.5°	1014.6	1021.9	1024.0	1026.2	993.0	959.8	879.0	798.3	684.1	565.0	470.6
25°	1025.8	1049.8	1078.2	1106.6	1113.6	1120.6	1053.6	986.6	846.7	685.5	551.8
27.5°	1011.3	1043.3	1097.4	1151.5	1201.1	1250.8	1214.5	1178.3	1030.1	839.7	662.7
30°	1008.6	1046.6	1115.1	1183.5	1272.0	1360.3	1383.9	1407.3	1239.9	1011.4	786.9
32.5°	1026.5	1070.5	1150.2	1229.8	1355.9	1481.9	1564.6	1647.4	1470.0	1203.0	926.1
35°	1053.8	1104.6	1190.2	1275.9	1435.6	1595.3	1730.8	1866.5	1704.1	1412.3	1084.5
37.5°	1081.5	1128.2	1221.6	1315.2	1508.8	1702.5	1906.8	2111.2	1961.3	1647.7	1263.5
40°	1185.0	1215.6	1297.8	1380.1	1606.5	1832.7	2101.3	2369.9	2243.5	1897.9	1448.9
42.5°	1473.2	1462.9	1501.8	1540.7	1782.7	2024.6	2354.7	2684.6	2543.7	2149.3	1628.8
45°	2009.1	1929.8	1915.3	1900.9	2174.0	2447.2	2850.2	3253.4	2975.9	2453.0	1826.4
47.5°	2896.0	2703.3	2606.2	2509.2	2857.8	3206.4	3644.8	4083.2	3619.9	2842.3	2047.6
50°	4158.0	3789.5	3584.9	3380.4	3815.6	4250.6	4716.7	5182.8	4377.1	3248.1	2259.7
52.5°	5674.1	5133.2	4785.9	4438.6	4947.8	5456.9	5816.3	6175.7	4920.0	3473.0	2350.8
55°	7534.4	6821.6	6398.2	5974.7	6509.1	7043.4	6926.1	6808.6	5126.2	3474.4	2306.0
57.5°	9423.6	8542.8	8105.7	7668.7	8042.9	8417.1	7723.0	7028.8	4866.3	3153.5	2077.0
60°	10680.7	9703.8	9110.8	8517.7	8547.0	8576.3	7582.9	6589.5	4329.3	2606.0	1682.3
62.5°	10383.7	9471.4	8635.9	7800.4	7651.4	7502.6	6683.3	5864.0	3687.6	2106.2	1334.4
65°	9318.7	8494.7	7602.5	6710.4	6595.3	6480.1	5747.3	5014.4	3087.2	1700.2	1048.2
67.5°	8053.7	7442.8	6683.9	5924.9	5852.4	5780.1	5038.3	4296.4	2481.9	1309.0	778.6
70°	6785.7	6428.6	5891.4	5354.1	5234.2	5114.2	4329.8	3545.3	1922.2	981.3	577.8
72.5°	5435.4	5258.8	4885.7	4512.6	4401.9	4291.2	3496.6	2702.1	1325.9	647.4	384.1
75°	4133.6	4062.5	3800.8	3539.2	3393.8	3248.3	2565.6	1882.8	846.8	398.6	241.4
77.5°	3041.8	3008.0	2724.4	2440.7	2183.0	1925.3	1467.5	1009.9	443.7	209.2	131.5
80°	2020.8	2004.3	1663.3	1322.6	1019.7	716.8	507.0	297.2	134.6	72.0	52.6
82.5°	1165.5	1188.8	941.0	693.2	482.5	271.8	180.8	89.7	41.0	25.6	21.9
85°	542.8	588.8	475.6	362.5	234.3	106.1	62.9	19.8	10.0	7.9	7.2
87.5°	156.1	191.1	163.2	135.2	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5
2.5°	341.2	340.5	340.1	339.6	339.1	338.0	337.5	337.9	338.2	337.7	337.0
5°	330.1	328.0	325.7	323.4	321.1	319.3	316.5	316.5	316.4	317.2	318.2
7.5°	315.8	312.9	310.0	307.9	305.9	304.8	304.4	302.3	300.5	300.5	300.5
10°	308.8	305.3	301.9	298.6	295.4	292.5	293.1	291.8	290.4	289.6	288.8
12.5°	306.3	300.6	294.9	291.4	287.9	285.5	284.1	282.4	280.6	279.6	278.5
15°	311.2	301.3	291.4	286.8	282.3	278.5	273.6	272.6	271.6	270.3	269.0
17.5°	321.4	304.4	287.6	281.5	275.3	271.0	268.3	265.5	262.8	260.5	258.1
20°	340.1	312.8	285.5	277.1	268.6	264.6	260.4	256.7	253.1	250.0	246.8
22.5°	376.2	331.7	287.3	274.1	261.1	255.2	248.5	245.2	242.2	238.3	234.5
25°	418.2	352.4	286.7	268.3	250.0	243.6	239.9	235.3	230.8	226.6	222.4
27.5°	485.8	388.1	290.4	265.5	240.3	232.5	228.5	224.2	220.0	215.6	211.2
30°	562.7	431.0	299.3	265.0	230.8	220.9	217.2	213.5	209.8	205.2	200.7
32.5°	649.2	479.2	309.4	266.7	223.8	213.3	206.5	202.3	198.1	194.0	190.0
35°	756.6	540.5	324.2	267.9	211.5	199.9	194.2	190.7	187.1	182.5	178.1
37.5°	879.3	609.1	338.9	269.1	199.3	186.5	182.7	179.9	177.1	172.4	167.6
40°	1000.0	676.4	352.9	271.1	189.4	175.4	170.9	168.9	166.9	162.2	157.6
42.5°	1108.3	736.8	365.4	274.6	183.9	162.0	159.8	157.2	154.8	150.3	145.9
45°	1199.8	788.1	376.4	281.3	186.2	150.3	146.4	144.2	142.0	138.9	136.1
47.5°	1252.9	819.3	385.8	291.5	197.2	142.8	131.2	129.8	128.4	127.6	126.8
50°	1271.3	833.2	395.1	306.6	218.2	150.3	127.0	122.3	117.5	117.5	117.5
52.5°	1228.6	810.2	391.8	316.1	240.3	176.0	134.1	120.3	106.3	106.1	105.8
55°	1137.5	756.5	375.5	317.2	259.0	211.5	151.6	124.5	97.3	94.9	92.3
57.5°	1000.5	681.7	362.7	307.1	251.5	225.5	165.7	129.1	92.3	85.3	78.3
60°	758.7	565.5	372.4	297.9	223.5	202.8	162.5	127.0	91.8	79.3	66.7
62.5°	562.7	450.3	338.0	265.3	192.5	160.8	145.1	119.5	93.8	76.2	58.5
65°	396.3	343.6	290.8	236.4	181.8	126.5	119.8	105.8	91.8	72.7	53.6
67.5°	248.2	224.8	201.4	177.7	154.1	105.5	93.5	83.3	73.2	60.1	47.2
70°	174.2	160.6	146.8	134.7	122.6	89.2	72.5	63.9	55.4	48.5	41.7
72.5°	121.0	111.2	101.4	95.1	88.8	73.4	56.2	48.5	40.8	36.6	32.4
75°	84.1	76.9	69.7	64.0	58.3	48.4	36.6	31.0	25.4	23.2	21.0
77.5°	53.6	48.0	42.5	37.8	32.9	30.3	22.7	19.6	16.3	15.6	14.9
80°	33.2	29.4	25.6	21.9	18.1	16.9	11.7	10.4	9.1	9.1	9.1
82.5°	18.1	15.9	13.8	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



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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5
2.5°	336.1	335.1	335.9	336.8	335.8	334.7	335.0	335.1	333.9	332.7	331.5
5°	318.3	318.4	319.8	321.1	321.5	321.9	322.4	322.8	323.1	323.4	323.5
7.5°	300.7	300.9	301.7	302.4	303.5	304.4	307.0	309.4	310.7	312.1	313.6
10°	288.1	287.6	290.1	292.5	293.2	293.9	297.0	299.8	301.4	303.0	304.3
12.5°	277.4	276.2	277.4	278.5	280.8	283.0	287.2	291.4	294.6	297.8	298.5
15°	267.8	266.7	267.6	268.6	269.8	271.0	275.2	279.5	283.1	286.7	288.4
17.5°	256.2	254.1	253.1	252.3	256.2	259.9	263.5	267.1	271.0	274.8	278.1
20°	244.3	241.8	241.2	240.7	242.3	243.8	248.5	253.1	257.8	262.5	264.0
22.5°	231.0	227.5	226.6	225.5	226.3	227.3	229.6	231.9	235.4	238.9	241.5
25°	218.6	215.0	212.1	209.2	209.3	209.5	210.8	212.1	213.4	214.7	216.2
27.5°	207.0	202.8	199.1	195.2	193.7	192.3	191.0	189.7	189.4	189.0	188.8
30°	195.7	190.6	186.5	182.4	178.2	173.9	171.2	168.4	165.5	162.6	160.4
32.5°	185.1	180.1	172.7	165.5	161.1	156.8	151.6	146.6	141.3	136.1	132.6
35°	172.5	166.9	160.1	153.3	145.8	138.5	131.0	123.5	116.5	109.6	105.6
37.5°	160.7	153.8	146.6	139.3	128.9	118.6	110.0	101.4	94.3	87.2	83.0
40°	149.6	141.6	131.7	121.8	110.6	99.3	90.0	80.6	73.9	67.0	63.5
42.5°	138.2	130.5	119.1	107.8	95.5	83.0	73.3	63.5	57.7	51.9	48.7
45°	127.3	118.6	105.4	92.1	80.4	68.8	60.4	51.9	46.4	40.8	38.3
47.5°	117.5	108.2	94.3	80.4	69.3	58.3	50.3	42.5	37.4	32.4	30.1
50°	107.9	98.5	84.5	70.5	60.4	50.1	43.1	36.1	31.4	26.6	24.2
52.5°	97.4	89.2	75.5	61.8	53.7	45.7	39.0	32.4	27.3	22.1	19.8
55°	85.0	77.5	66.2	54.8	47.6	40.2	34.3	28.2	22.8	17.5	15.0
57.5°	72.1	65.8	56.2	46.6	40.6	34.4	28.7	23.1	17.9	12.8	10.7
60°	61.1	55.4	47.2	39.0	33.1	27.0	22.1	17.2	12.7	8.2	6.1
62.5°	52.7	46.9	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	15.2	11.2	7.2	4.4	1.4	0.7
67.5°	39.5	31.7	25.2	18.6	14.1	9.6	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°	12.4	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: P1209019

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5
2.5°	330.1	329.8	330.1	331.5	332.7	333.9	335.1	335.0	334.7	335.8	336.8
5°	323.8	324.0	323.8	323.5	323.4	323.1	322.8	322.4	321.9	321.5	321.1
7.5°	315.3	318.2	315.3	313.6	312.1	310.7	309.4	307.0	304.4	303.5	302.4
10°	305.6	307.7	305.6	304.3	303.0	301.4	299.8	297.0	293.9	293.2	292.5
12.5°	299.3	299.5	299.3	298.5	297.8	294.6	291.4	287.2	283.0	280.8	278.5
15°	290.2	291.4	290.2	288.4	286.7	283.1	279.5	275.2	271.0	269.8	268.6
17.5°	281.5	283.2	281.5	278.1	274.8	271.0	267.1	263.5	259.9	256.2	252.3
20°	265.5	264.6	265.5	264.0	262.5	257.8	253.1	248.5	243.8	242.3	240.7
22.5°	244.2	247.1	244.2	241.5	238.9	235.4	231.9	229.6	227.3	226.3	225.5
25°	217.7	219.1	217.7	216.2	214.7	213.4	212.1	210.8	209.5	209.3	209.2
27.5°	188.6	187.6	188.6	188.8	189.0	189.4	189.7	191.0	192.3	193.7	195.2
30°	158.3	157.3	158.3	160.4	162.6	165.5	168.4	171.2	173.9	178.2	182.4
32.5°	129.1	127.0	129.1	132.6	136.1	141.3	146.6	151.6	156.8	161.1	165.5
35°	101.6	100.2	101.6	105.6	109.6	116.5	123.5	131.0	138.5	145.8	153.3
37.5°	79.0	76.9	79.0	83.0	87.2	94.3	101.4	110.0	118.6	128.9	139.3
40°	60.0	58.3	60.0	63.5	67.0	73.9	80.6	90.0	99.3	110.6	121.8
42.5°	45.5	43.1	45.5	48.7	51.9	57.7	63.5	73.3	83.0	95.5	107.8
45°	35.9	35.0	35.9	38.3	40.8	46.4	51.9	60.4	68.8	80.4	92.1
47.5°	27.7	26.8	27.7	30.1	32.4	37.4	42.5	50.3	58.3	69.3	80.4
50°	21.9	21.0	21.9	24.2	26.6	31.4	36.1	43.1	50.1	60.4	70.5
52.5°	17.5	16.3	17.5	19.8	22.1	27.3	32.4	39.0	45.7	53.7	61.8
55°	12.6	11.7	12.6	15.0	17.5	22.8	28.2	34.3	40.2	47.6	54.8
57.5°	8.7	8.2	8.7	10.7	12.8	17.9	23.1	28.7	34.4	40.6	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	15.2	20.4	25.6
67.5°	0.0	0.0	0.0	0.0	0.0	1.4	2.9	6.3	9.6	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: P1209019

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5
2.5°	335.9	335.1	336.1	337.0	337.7	338.2	337.9	337.5	338.0	339.1	339.6
5°	319.8	318.4	318.3	318.2	317.2	316.4	316.5	316.5	319.3	321.1	323.4
7.5°	301.7	300.9	300.7	300.5	300.5	300.5	302.3	304.4	304.8	305.9	307.9
10°	290.1	287.6	288.1	288.8	289.6	290.4	291.8	293.1	292.5	295.4	298.6
12.5°	277.4	276.2	277.4	278.5	279.6	280.6	282.4	284.1	285.5	287.9	291.4
15°	267.6	266.7	267.8	269.0	270.3	271.6	272.6	273.6	278.5	282.3	286.8
17.5°	253.1	254.1	256.2	258.1	260.5	262.8	265.5	268.3	271.0	275.3	281.5
20°	241.2	241.8	244.3	246.8	250.0	253.1	256.7	260.4	264.6	268.6	277.1
22.5°	226.6	227.5	231.0	234.5	238.3	242.2	245.2	248.5	255.2	261.1	274.1
25°	212.1	215.0	218.6	222.4	226.6	230.8	235.3	239.9	243.6	250.0	268.3
27.5°	199.1	202.8	207.0	211.2	215.6	220.0	224.2	228.5	232.5	240.3	265.5
30°	186.5	190.6	195.7	200.7	205.2	209.8	213.5	217.2	220.9	230.8	265.0
32.5°	172.7	180.1	185.1	190.0	194.0	198.1	202.3	206.5	213.3	223.8	266.7
35°	160.1	166.9	172.5	178.1	182.5	187.1	190.7	194.2	199.9	211.5	267.9
37.5°	146.6	153.8	160.7	167.6	172.4	177.1	179.9	182.7	186.5	199.3	269.1
40°	131.7	141.6	149.6	157.6	162.2	166.9	168.9	170.9	175.4	189.4	271.1
42.5°	119.1	130.5	138.2	145.9	150.3	154.8	157.2	159.8	162.0	183.9	274.6
45°	105.4	118.6	127.3	136.1	138.9	142.0	144.2	146.4	150.3	186.2	281.3
47.5°	94.3	108.2	117.5	126.8	127.6	128.4	129.8	131.2	142.8	197.2	291.5
50°	84.5	98.5	107.9	117.5	117.5	117.5	122.3	127.0	150.3	218.2	306.6
52.5°	75.5	89.2	97.4	105.8	106.1	106.3	120.3	134.1	176.0	240.3	316.1
55°	66.2	77.5	85.0	92.3	94.9	97.3	124.5	151.6	211.5	259.0	317.2
57.5°	56.2	65.8	72.1	78.3	85.3	92.3	129.1	165.7	225.5	251.5	307.1
60°	47.2	55.4	61.1	66.7	79.3	91.8	127.0	162.5	202.8	223.5	297.9
62.5°	38.9	46.9	52.7	58.5	76.2	93.8	119.5	145.1	160.8	192.5	265.3
65°	32.5	39.4	46.5	53.6	72.7	91.8	105.8	119.8	126.5	181.8	236.4
67.5°	25.2	31.7	39.5	47.2	60.1	73.2	83.3	93.5	105.5	154.1	177.7
70°	17.6	24.7	33.2	41.7	48.5	55.4	63.9	72.5	89.2	122.6	134.7
72.5°	11.4	18.1	25.2	32.4	36.6	40.8	48.5	56.2	73.4	88.8	95.1
75°	8.0	12.6	16.8	21.0	23.2	25.4	31.0	36.6	48.4	58.3	64.0
77.5°	6.1	9.9	12.4	14.9	15.6	16.3	19.6	22.7	30.3	32.9	37.8
80°	3.5	5.8	7.5	9.1	9.1	9.1	10.4	11.7	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: P1209019

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	341.5	341.5	341.5	341.5	341.5	341.5	341.5
2.5°	340.1	340.5	341.2	342.6	344.0	345.0	343.8
5°	325.7	328.0	330.1	332.4	334.7	338.2	342.6
7.5°	310.0	312.9	315.8	319.3	322.8	327.0	331.6
10°	301.9	305.3	308.8	314.4	319.9	327.1	332.7
12.5°	294.9	300.6	306.3	317.2	328.4	343.5	357.2
15°	291.4	301.3	311.2	331.9	352.5	379.7	407.9
17.5°	287.6	304.4	321.4	359.1	396.8	448.8	510.5
20°	285.5	312.8	340.1	402.0	463.9	548.5	642.7
22.5°	287.3	331.7	376.2	470.6	565.0	684.1	798.3
25°	286.7	352.4	418.2	551.8	685.5	846.7	986.6
27.5°	290.4	388.1	485.8	662.7	839.7	1030.1	1178.3
30°	299.3	431.0	562.7	786.9	1011.4	1239.9	1407.3
32.5°	309.4	479.2	649.2	926.1	1203.0	1470.0	1647.4
35°	324.2	540.5	756.6	1084.5	1412.3	1704.1	1866.5
37.5°	338.9	609.1	879.3	1263.5	1647.7	1961.3	2111.2
40°	352.9	676.4	1000.0	1448.9	1897.9	2243.5	2369.9
42.5°	365.4	736.8	1108.3	1628.8	2149.3	2543.7	2684.6
45°	376.4	788.1	1199.8	1826.4	2453.0	2975.9	3253.4
47.5°	385.8	819.3	1252.9	2047.6	2842.3	3619.9	4083.2
50°	395.1	833.2	1271.3	2259.7	3248.1	4377.1	5182.8
52.5°	391.8	810.2	1228.6	2350.8	3473.0	4920.0	6175.7
55°	375.5	756.5	1137.5	2306.0	3474.4	5126.2	6808.6
57.5°	362.7	681.7	1000.5	2077.0	3153.5	4866.3	7028.8
60°	372.4	565.5	758.7	1682.3	2606.0	4329.3	6589.5
62.5°	338.0	450.3	562.7	1334.4	2106.2	3687.6	5864.0
65°	290.8	343.6	396.3	1048.2	1700.2	3087.2	5014.4
67.5°	201.4	224.8	248.2	778.6	1309.0	2481.9	4296.4
70°	146.8	160.6	174.2	577.8	981.3	1922.2	3545.3
72.5°	101.4	111.2	121.0	384.1	647.4	1325.9	2702.1
75°	69.7	76.9	84.1	241.4	398.6	846.8	1882.8
77.5°	42.5	48.0	53.6	131.5	209.2	443.7	1009.9
80°	25.6	29.4	33.2	52.6	72.0	134.6	297.2
82.5°	13.8	15.9	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)