

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: P1208047

Luminaire Tested: UPW-SA1-040-730-U-SLL-HSS

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1208047  
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-SA1-040-730-U-SLL-HSS  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3514 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

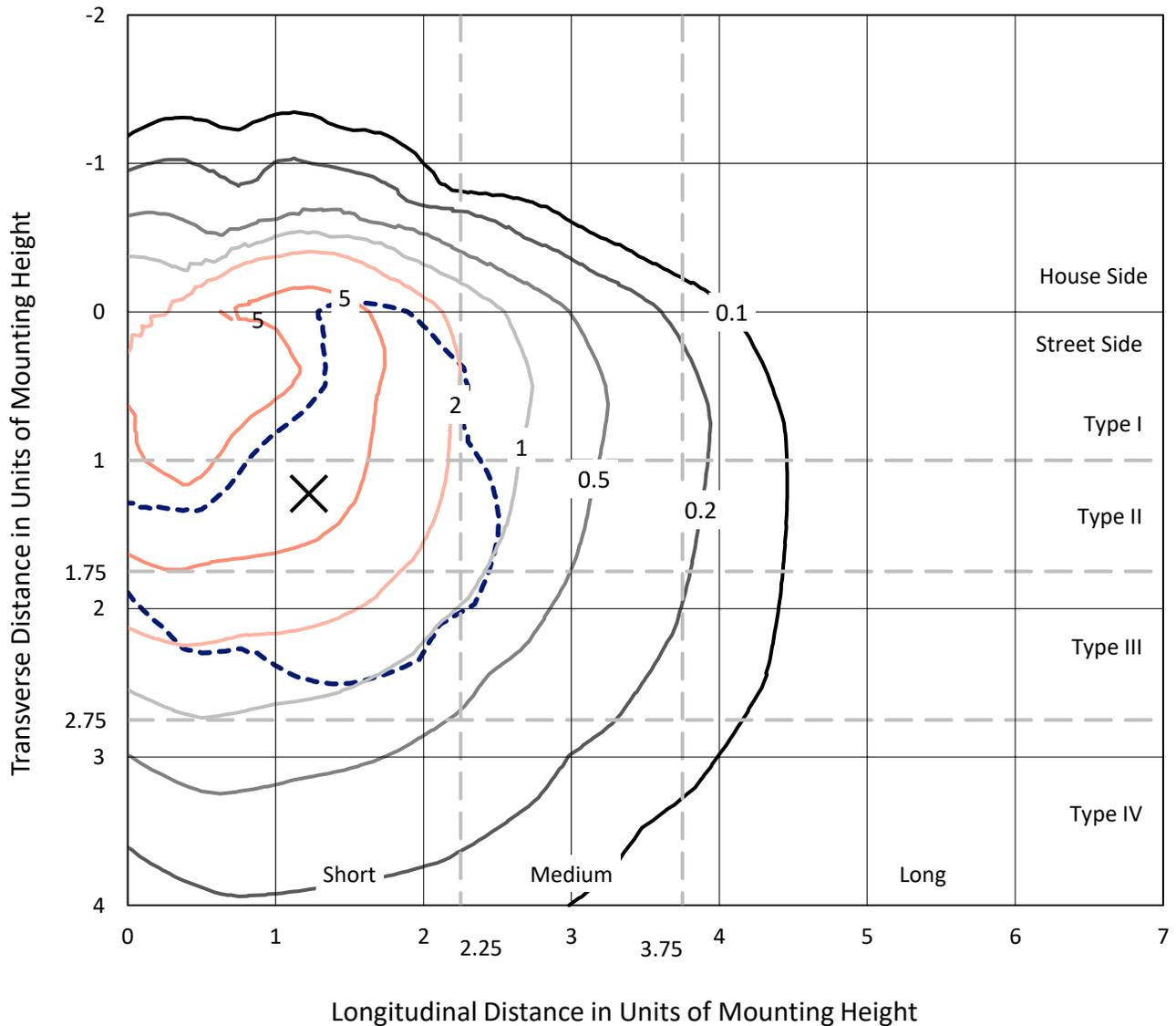
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

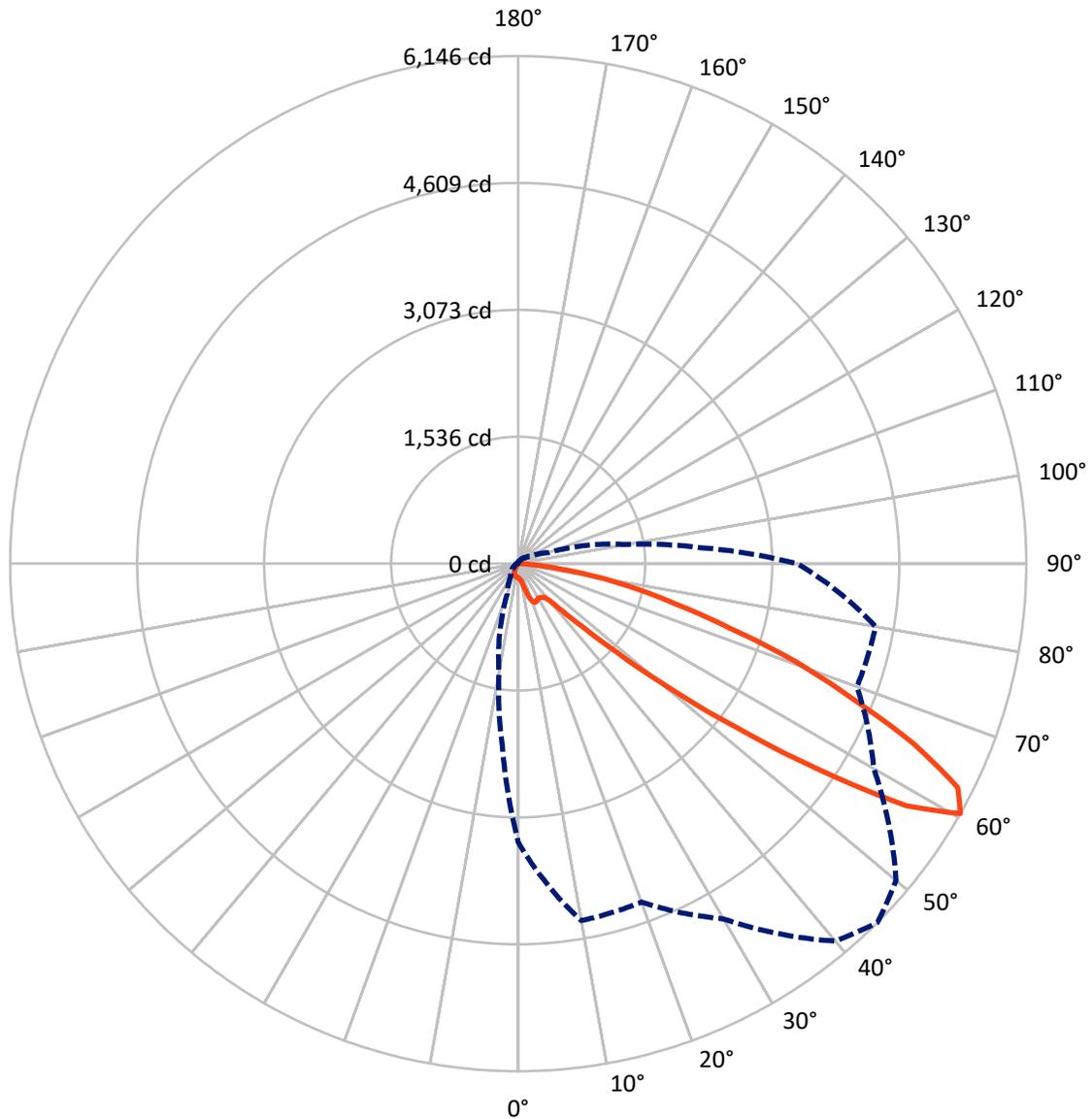
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 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
<b>House Side</b>	Lumens	404.8	0.0	404.8
	% Fixture	11.5	0.0	11.5
<b>Street Side</b>	Lumens	3109.2	0.0	3109.2
	% Fixture	88.5	0.0	88.5
<b>Total</b>	Lumens	3514.0	0.0	3514.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.0	0.5
10°-20°	54.2	1.5
20°-30°	117.1	3.3
30°-40°	197.3	5.6
40°-50°	398.4	11.3
50°-60°	1024.7	29.2
60°-70°	1114.1	31.7
70°-80°	524.8	14.9
80°-90°	67.4	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°	3514.0	100.0
0°-180°	3514.0	100.0



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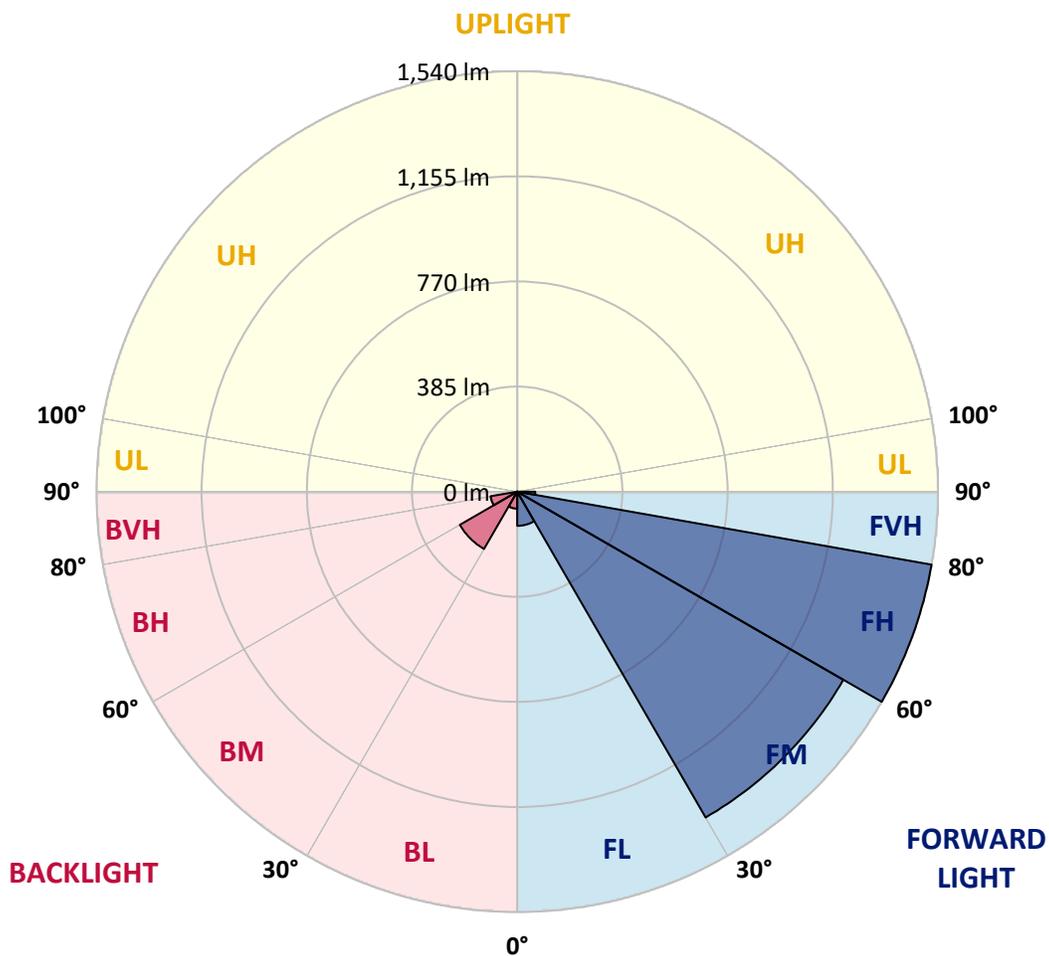
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	125.1	3.6			
FM	(30°-60°)	1378.1	39.2			
FH	(60°-80°)	1539.9	43.8			G1/1800
FVH	(80°-90°)	66.2	1.9			G1/100
BL	(0°-30°)	62.2	1.8	B0/110		
BM	(30°-60°)	242.3	6.9	B1/1000		
BH	(60°-80°)	99.1	2.8	B0/110		G0/110
BVH	(80°-90°)	1.2	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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8
2.5°	176.0	176.5	177.0	177.8	178.6	179.0	179.4	179.6	179.8	178.3	179.8
5°	175.4	176.9	178.3	180.1	181.9	182.9	183.8	184.3	184.8	186.1	184.8
7.5°	169.7	173.5	177.3	180.7	184.2	186.8	189.6	191.8	194.1	195.6	194.1
10°	170.3	177.2	184.2	190.9	197.7	202.9	208.2	211.7	215.2	217.1	215.2
12.5°	182.8	194.1	205.3	216.6	228.0	238.6	249.3	256.4	263.5	268.4	263.5
15°	208.8	229.9	251.1	270.9	290.8	307.3	323.9	332.7	341.4	342.4	341.4
17.5°	261.3	292.2	323.2	349.5	375.8	393.4	411.0	419.4	427.8	430.1	427.8
20°	329.0	367.9	406.8	431.6	456.4	468.2	480.0	484.5	488.9	486.1	488.9
22.5°	408.6	449.9	491.2	508.2	525.2	524.1	523.0	519.3	515.6	509.4	515.6
25°	504.9	539.2	573.5	569.9	566.4	551.8	537.3	525.0	512.7	507.0	512.7
27.5°	603.0	621.6	640.1	614.7	589.3	561.6	534.0	517.6	501.1	490.9	501.1
30°	720.2	708.3	696.2	651.0	605.7	570.7	535.6	516.2	496.7	484.9	496.7
32.5°	843.1	800.8	758.4	693.9	629.4	588.7	547.9	525.4	502.8	488.5	502.8
35°	955.3	885.8	816.5	734.7	653.0	609.1	565.3	539.3	513.4	502.2	513.4
37.5°	1080.5	975.9	871.3	772.2	673.1	625.2	577.4	553.5	529.7	517.7	529.7
40°	1212.9	1075.4	938.0	822.2	706.3	664.2	622.1	606.5	590.9	587.5	590.9
42.5°	1374.0	1205.1	1036.2	912.4	788.5	768.6	748.7	754.0	759.3	780.8	759.3
45°	1665.1	1458.7	1252.5	1112.7	972.9	980.2	987.6	1028.3	1068.9	1092.7	1068.9
47.5°	2089.8	1865.4	1641.0	1462.6	1284.2	1333.8	1383.5	1482.2	1580.9	1602.1	1580.9
50°	2652.5	2414.0	2175.5	1952.8	1730.1	1834.8	1939.4	2128.0	2316.6	2347.7	2316.6
52.5°	3160.7	2976.8	2792.8	2532.3	2271.7	2449.4	2627.2	2904.0	3180.9	3265.7	3180.9
55°	3484.6	3544.7	3604.8	3331.3	3057.8	3274.6	3491.3	3856.1	4220.9	4383.5	4220.9
57.5°	3597.3	3952.6	4307.9	4116.3	3924.8	4148.5	4372.2	4823.0	5273.8	5530.5	5273.8
60°	3372.5	3880.9	4389.3	4374.3	4359.3	4662.9	4966.4	5466.3	5966.3	6145.5	5966.3
62.5°	3001.2	3420.5	3839.8	3916.0	3992.2	4419.8	4847.4	5314.4	5781.3	5964.8	5781.3
65°	2566.3	2941.5	3316.5	3375.5	3434.4	3890.9	4347.6	4769.3	5191.0	5253.2	5191.0
67.5°	2198.9	2578.6	2958.2	2995.3	3032.4	3420.8	3809.2	4121.9	4434.6	4357.8	4434.6
70°	1814.5	2216.0	2617.5	2678.8	2740.2	3015.2	3290.2	3472.9	3655.7	3563.3	3655.7
72.5°	1382.9	1789.5	2196.2	2252.9	2309.6	2500.5	2691.4	2781.8	2872.1	2690.1	2872.1
75°	963.6	1313.1	1662.5	1736.9	1811.4	1945.2	2079.2	2115.6	2152.0	1983.9	2152.0
77.5°	516.8	751.1	985.4	1117.3	1249.1	1394.3	1539.5	1556.8	1574.1	1462.6	1574.1
80°	152.1	259.5	366.8	521.9	676.9	851.3	1025.8	1034.2	1042.6	959.7	1042.6
82.5°	45.9	92.5	139.1	246.9	354.8	481.6	608.4	596.5	584.5	500.4	584.5
85°	10.1	32.2	54.3	119.9	185.5	243.4	301.3	277.8	254.2	206.4	254.2
87.5°	1.5	8.9	16.2	42.7	69.2	83.5	97.8	79.9	61.9	56.1	61.9
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°	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8
2.5°	179.6	179.4	179.0	178.6	177.8	177.0	176.5	176.0	176.6	176.1	175.4
5°	184.3	183.8	182.9	181.9	180.1	178.3	176.9	175.4	173.1	171.3	170.1
7.5°	191.8	189.6	186.8	184.2	180.7	177.3	173.5	169.7	167.4	165.2	163.4
10°	211.7	208.2	202.9	197.7	190.9	184.2	177.2	170.3	167.4	163.7	160.9
12.5°	256.4	249.3	238.6	228.0	216.6	205.3	194.1	182.8	175.8	168.1	162.4
15°	332.7	323.9	307.3	290.8	270.9	251.1	229.9	208.8	194.3	180.4	169.9
17.5°	419.4	411.0	393.4	375.8	349.5	323.2	292.2	261.3	229.7	203.1	183.8
20°	484.5	480.0	468.2	456.4	431.6	406.8	367.9	329.0	280.7	237.4	205.7
22.5°	519.3	523.0	524.1	525.2	508.2	491.2	449.9	408.6	350.1	289.2	240.9
25°	525.0	537.3	551.8	566.4	569.9	573.5	539.2	504.9	433.3	350.8	282.4
27.5°	517.6	534.0	561.6	589.3	614.7	640.1	621.6	603.0	527.2	429.8	339.2
30°	516.2	535.6	570.7	605.7	651.0	696.2	708.3	720.2	634.6	517.6	402.7
32.5°	525.4	547.9	588.7	629.4	693.9	758.4	800.8	843.1	752.3	615.7	474.0
35°	539.3	565.3	609.1	653.0	734.7	816.5	885.8	955.3	872.2	722.8	555.0
37.5°	553.5	577.4	625.2	673.1	772.2	871.3	975.9	1080.5	1003.8	843.3	646.6
40°	606.5	622.1	664.2	706.3	822.2	938.0	1075.4	1212.9	1148.2	971.4	741.5
42.5°	754.0	748.7	768.6	788.5	912.4	1036.2	1205.1	1374.0	1301.9	1100.0	833.6
45°	1028.3	987.6	980.2	972.9	1112.7	1252.5	1458.7	1665.1	1523.0	1255.5	934.7
47.5°	1482.2	1383.5	1333.8	1284.2	1462.6	1641.0	1865.4	2089.8	1852.7	1454.7	1047.9
50°	2128.0	1939.4	1834.8	1730.1	1952.8	2175.5	2414.0	2652.5	2240.2	1662.4	1156.5
52.5°	2904.0	2627.2	2449.4	2271.7	2532.3	2792.8	2976.8	3160.7	2518.0	1777.5	1203.2
55°	3856.1	3491.3	3274.6	3057.8	3331.3	3604.8	3544.7	3484.6	2623.6	1778.2	1180.2
57.5°	4823.0	4372.2	4148.5	3924.8	4116.3	4307.9	3952.6	3597.3	2490.6	1613.9	1063.0
60°	5466.3	4966.4	4662.9	4359.3	4374.3	4389.3	3880.9	3372.5	2215.7	1333.7	861.0
62.5°	5314.4	4847.4	4419.8	3992.2	3916.0	3839.8	3420.5	3001.2	1887.3	1078.0	683.0
65°	4769.3	4347.6	3890.9	3434.4	3375.5	3316.5	2941.5	2566.3	1580.0	870.1	536.5
67.5°	4121.9	3809.2	3420.8	3032.4	2995.3	2958.2	2578.6	2198.9	1270.3	670.0	398.5
70°	3472.9	3290.2	3015.2	2740.2	2678.8	2617.5	2216.0	1814.5	983.8	502.2	295.7
72.5°	2781.8	2691.4	2500.5	2309.6	2252.9	2196.2	1789.5	1382.9	678.6	331.3	196.6
75°	2115.6	2079.2	1945.2	1811.4	1736.9	1662.5	1313.1	963.6	433.4	204.0	123.5
77.5°	1556.8	1539.5	1394.3	1249.1	1117.3	985.4	751.1	516.8	227.1	107.1	67.3
80°	1034.2	1025.8	851.3	676.9	521.9	366.8	259.5	152.1	68.9	36.9	26.9
82.5°	596.5	608.4	481.6	354.8	246.9	139.1	92.5	45.9	21.0	13.1	11.2
85°	277.8	301.3	243.4	185.5	119.9	54.3	32.2	10.1	5.1	4.1	3.7
87.5°	79.9	97.8	83.5	69.2	42.7	16.2	8.9	1.5	0.2	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°	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8
2.5°	174.6	174.3	174.1	173.8	173.6	173.0	172.7	172.9	173.1	172.9	172.5
5°	168.9	167.8	166.7	165.5	164.3	163.4	162.0	162.0	161.9	162.4	162.8
7.5°	161.6	160.2	158.7	157.6	156.6	156.0	155.8	154.7	153.8	153.8	153.8
10°	158.1	156.3	154.5	152.8	151.2	149.7	150.0	149.4	148.6	148.2	147.8
12.5°	156.8	153.8	150.9	149.1	147.3	146.1	145.4	144.5	143.6	143.1	142.6
15°	159.3	154.2	149.1	146.8	144.5	142.6	140.1	139.5	139.0	138.3	137.7
17.5°	164.5	155.8	147.2	144.0	140.9	138.7	137.3	135.9	134.5	133.3	132.1
20°	174.1	160.1	146.1	141.8	137.5	135.4	133.3	131.4	129.6	127.9	126.3
22.5°	192.5	169.8	147.0	140.3	133.6	130.6	127.2	125.5	123.9	122.0	120.0
25°	214.0	180.4	146.7	137.3	127.9	124.7	122.8	120.4	118.1	116.0	113.8
27.5°	248.6	198.6	148.6	135.9	123.0	119.0	117.0	114.8	112.6	110.3	108.1
30°	288.0	220.6	153.2	135.6	118.1	113.0	111.2	109.3	107.4	105.0	102.7
32.5°	332.2	245.3	158.4	136.5	114.5	109.2	105.7	103.5	101.4	99.3	97.2
35°	387.2	276.6	165.9	137.1	108.3	102.3	99.4	97.6	95.7	93.4	91.1
37.5°	450.0	311.7	173.5	137.7	102.0	95.4	93.5	92.1	90.7	88.2	85.8
40°	511.8	346.2	180.6	138.7	96.9	89.8	87.4	86.4	85.4	83.0	80.6
42.5°	567.2	377.1	187.0	140.5	94.1	82.9	81.8	80.5	79.2	76.9	74.7
45°	614.1	403.3	192.7	144.0	95.3	76.9	74.9	73.8	72.7	71.1	69.7
47.5°	641.2	419.3	197.4	149.2	100.9	73.1	67.2	66.4	65.7	65.3	64.9
50°	650.6	426.4	202.2	156.9	111.7	76.9	65.0	62.6	60.1	60.1	60.1
52.5°	628.8	414.7	200.5	161.8	123.0	90.1	68.7	61.6	54.4	54.3	54.2
55°	582.2	387.2	192.2	162.4	132.5	108.3	77.6	63.7	49.8	48.6	47.2
57.5°	512.1	348.9	185.6	157.2	128.7	115.4	84.8	66.1	47.2	43.7	40.1
60°	388.3	289.4	190.6	152.5	114.4	103.8	83.1	65.0	47.0	40.6	34.1
62.5°	288.0	230.5	173.0	135.8	98.5	82.3	74.3	61.1	48.0	39.0	29.9
65°	202.8	175.8	148.8	121.0	93.1	64.7	61.3	54.2	47.0	37.2	27.4
67.5°	127.0	115.1	103.1	91.0	78.9	54.0	47.8	42.6	37.5	30.8	24.2
70°	89.2	82.2	75.2	69.0	62.7	45.6	37.1	32.7	28.3	24.8	21.4
72.5°	61.9	56.9	51.9	48.7	45.5	37.6	28.8	24.8	20.9	18.7	16.6
75°	43.1	39.4	35.7	32.7	29.8	24.8	18.7	15.9	13.0	11.9	10.7
77.5°	27.4	24.6	21.8	19.3	16.8	15.5	11.6	10.0	8.4	8.0	7.6
80°	17.0	15.0	13.1	11.2	9.2	8.6	6.0	5.3	4.7	4.7	4.7
82.5°	9.2	8.1	7.0	5.7	4.3	3.6	2.5	2.1	1.8	1.8	1.8
85°	3.5	3.0	2.5	2.0	1.5	0.9	0.4	0.5	0.6	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
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):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8
2.5°	172.0	171.5	171.9	172.4	171.8	171.3	171.4	171.5	170.9	170.3	169.6
5°	162.9	163.0	163.7	164.3	164.6	164.7	165.0	165.2	165.3	165.5	165.6
7.5°	153.9	154.0	154.4	154.8	155.3	155.8	157.1	158.4	159.0	159.7	160.5
10°	147.4	147.2	148.5	149.7	150.1	150.4	152.0	153.4	154.2	155.1	155.7
12.5°	142.0	141.4	142.0	142.6	143.7	144.8	147.0	149.1	150.8	152.4	152.8
15°	137.1	136.5	137.0	137.5	138.1	138.7	140.8	143.0	144.9	146.7	147.6
17.5°	131.1	130.0	129.6	129.1	131.1	133.0	134.9	136.7	138.7	140.6	142.3
20°	125.0	123.8	123.5	123.2	124.0	124.8	127.2	129.6	131.9	134.3	135.1
22.5°	118.2	116.4	116.0	115.4	115.8	116.3	117.5	118.7	120.5	122.3	123.6
25°	111.9	110.0	108.6	107.1	107.1	107.2	107.9	108.6	109.2	109.9	110.6
27.5°	105.9	103.8	101.9	99.9	99.1	98.4	97.8	97.1	96.9	96.7	96.6
30°	100.1	97.5	95.4	93.3	91.2	89.0	87.6	86.2	84.7	83.2	82.1
32.5°	94.7	92.2	88.4	84.7	82.4	80.2	77.6	75.0	72.3	69.7	67.9
35°	88.3	85.4	82.0	78.4	74.6	70.9	67.0	63.2	59.6	56.1	54.0
37.5°	82.3	78.7	75.0	71.3	66.0	60.7	56.3	51.9	48.3	44.6	42.5
40°	76.6	72.5	67.4	62.3	56.6	50.8	46.0	41.3	37.8	34.3	32.5
42.5°	70.7	66.8	61.0	55.2	48.9	42.5	37.5	32.5	29.5	26.5	24.9
45°	65.1	60.7	53.9	47.1	41.2	35.2	30.9	26.5	23.7	20.9	19.6
47.5°	60.1	55.4	48.3	41.2	35.5	29.8	25.8	21.8	19.1	16.6	15.4
50°	55.2	50.4	43.2	36.1	30.9	25.6	22.1	18.5	16.0	13.6	12.4
52.5°	49.9	45.6	38.7	31.6	27.5	23.4	20.0	16.6	14.0	11.3	10.1
55°	43.5	39.7	33.9	28.0	24.3	20.6	17.5	14.4	11.7	8.9	7.7
57.5°	36.9	33.7	28.8	23.9	20.8	17.6	14.7	11.8	9.2	6.6	5.5
60°	31.3	28.3	24.2	20.0	16.9	13.8	11.3	8.8	6.5	4.2	3.1
62.5°	27.0	24.0	19.9	15.8	13.4	10.9	8.6	6.4	4.2	2.1	1.1
65°	23.8	20.2	16.6	13.1	10.4	7.8	5.7	3.7	2.3	0.7	0.4
67.5°	20.2	16.2	12.9	9.5	7.2	4.9	3.2	1.5	0.7	0.0	0.0
70°	17.0	12.6	9.0	5.4	3.6	1.8	1.1	0.3	0.1	0.0	0.0
72.5°	12.9	9.2	5.8	2.4	1.6	0.7	0.5	0.1	0.1	0.0	0.0
75°	8.6	6.4	4.1	1.8	1.1	0.5	0.2	0.0	0.0	0.0	0.0
77.5°	6.3	5.1	3.1	1.2	0.7	0.3	0.1	0.0	0.0	0.0	0.0
80°	3.8	3.0	1.8	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.5	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.3	0.1	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°	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8
2.5°	168.9	168.8	168.9	169.6	170.3	170.9	171.5	171.4	171.3	171.8	172.4
5°	165.7	165.8	165.7	165.6	165.5	165.3	165.2	165.0	164.7	164.6	164.3
7.5°	161.3	162.8	161.3	160.5	159.7	159.0	158.4	157.1	155.8	155.3	154.8
10°	156.4	157.5	156.4	155.7	155.1	154.2	153.4	152.0	150.4	150.1	149.7
12.5°	153.2	153.3	153.2	152.8	152.4	150.8	149.1	147.0	144.8	143.7	142.6
15°	148.5	149.1	148.5	147.6	146.7	144.9	143.0	140.8	138.7	138.1	137.5
17.5°	144.0	144.9	144.0	142.3	140.6	138.7	136.7	134.9	133.0	131.1	129.1
20°	135.9	135.4	135.9	135.1	134.3	131.9	129.6	127.2	124.8	124.0	123.2
22.5°	125.0	126.5	125.0	123.6	122.3	120.5	118.7	117.5	116.3	115.8	115.4
25°	111.4	112.1	111.4	110.6	109.9	109.2	108.6	107.9	107.2	107.1	107.1
27.5°	96.5	96.0	96.5	96.6	96.7	96.9	97.1	97.8	98.4	99.1	99.9
30°	81.0	80.5	81.0	82.1	83.2	84.7	86.2	87.6	89.0	91.2	93.3
32.5°	66.1	65.0	66.1	67.9	69.7	72.3	75.0	77.6	80.2	82.4	84.7
35°	52.0	51.3	52.0	54.0	56.1	59.6	63.2	67.0	70.9	74.6	78.4
37.5°	40.4	39.4	40.4	42.5	44.6	48.3	51.9	56.3	60.7	66.0	71.3
40°	30.7	29.8	30.7	32.5	34.3	37.8	41.3	46.0	50.8	56.6	62.3
42.5°	23.3	22.1	23.3	24.9	26.5	29.5	32.5	37.5	42.5	48.9	55.2
45°	18.4	17.9	18.4	19.6	20.9	23.7	26.5	30.9	35.2	41.2	47.1
47.5°	14.2	13.7	14.2	15.4	16.6	19.1	21.8	25.8	29.8	35.5	41.2
50°	11.2	10.7	11.2	12.4	13.6	16.0	18.5	22.1	25.6	30.9	36.1
52.5°	8.9	8.4	8.9	10.1	11.3	14.0	16.6	20.0	23.4	27.5	31.6
55°	6.4	6.0	6.4	7.7	8.9	11.7	14.4	17.5	20.6	24.3	28.0
57.5°	4.5	4.2	4.5	5.5	6.6	9.2	11.8	14.7	17.6	20.8	23.9
60°	2.1	1.8	2.1	3.1	4.2	6.5	8.8	11.3	13.8	16.9	20.0
62.5°	0.1	0.0	0.1	1.1	2.1	4.2	6.4	8.6	10.9	13.4	15.8
65°	0.0	0.0	0.0	0.4	0.7	2.3	3.7	5.7	7.8	10.4	13.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.7	1.5	3.2	4.9	7.2	9.5
70°	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.1	1.8	3.6	5.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.5	0.7	1.6	2.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	1.1	1.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.7	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6
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°	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8
2.5°	171.9	171.5	172.0	172.5	172.9	173.1	172.9	172.7	173.0	173.6	173.8
5°	163.7	163.0	162.9	162.8	162.4	161.9	162.0	162.0	163.4	164.3	165.5
7.5°	154.4	154.0	153.9	153.8	153.8	153.8	154.7	155.8	156.0	156.6	157.6
10°	148.5	147.2	147.4	147.8	148.2	148.6	149.4	150.0	149.7	151.2	152.8
12.5°	142.0	141.4	142.0	142.6	143.1	143.6	144.5	145.4	146.1	147.3	149.1
15°	137.0	136.5	137.1	137.7	138.3	139.0	139.5	140.1	142.6	144.5	146.8
17.5°	129.6	130.0	131.1	132.1	133.3	134.5	135.9	137.3	138.7	140.9	144.0
20°	123.5	123.8	125.0	126.3	127.9	129.6	131.4	133.3	135.4	137.5	141.8
22.5°	116.0	116.4	118.2	120.0	122.0	123.9	125.5	127.2	130.6	133.6	140.3
25°	108.6	110.0	111.9	113.8	116.0	118.1	120.4	122.8	124.7	127.9	137.3
27.5°	101.9	103.8	105.9	108.1	110.3	112.6	114.8	117.0	119.0	123.0	135.9
30°	95.4	97.5	100.1	102.7	105.0	107.4	109.3	111.2	113.0	118.1	135.6
32.5°	88.4	92.2	94.7	97.2	99.3	101.4	103.5	105.7	109.2	114.5	136.5
35°	82.0	85.4	88.3	91.1	93.4	95.7	97.6	99.4	102.3	108.3	137.1
37.5°	75.0	78.7	82.3	85.8	88.2	90.7	92.1	93.5	95.4	102.0	137.7
40°	67.4	72.5	76.6	80.6	83.0	85.4	86.4	87.4	89.8	96.9	138.7
42.5°	61.0	66.8	70.7	74.7	76.9	79.2	80.5	81.8	82.9	94.1	140.5
45°	53.9	60.7	65.1	69.7	71.1	72.7	73.8	74.9	76.9	95.3	144.0
47.5°	48.3	55.4	60.1	64.9	65.3	65.7	66.4	67.2	73.1	100.9	149.2
50°	43.2	50.4	55.2	60.1	60.1	60.1	62.6	65.0	76.9	111.7	156.9
52.5°	38.7	45.6	49.9	54.2	54.3	54.4	61.6	68.7	90.1	123.0	161.8
55°	33.9	39.7	43.5	47.2	48.6	49.8	63.7	77.6	108.3	132.5	162.4
57.5°	28.8	33.7	36.9	40.1	43.7	47.2	66.1	84.8	115.4	128.7	157.2
60°	24.2	28.3	31.3	34.1	40.6	47.0	65.0	83.1	103.8	114.4	152.5
62.5°	19.9	24.0	27.0	29.9	39.0	48.0	61.1	74.3	82.3	98.5	135.8
65°	16.6	20.2	23.8	27.4	37.2	47.0	54.2	61.3	64.7	93.1	121.0
67.5°	12.9	16.2	20.2	24.2	30.8	37.5	42.6	47.8	54.0	78.9	91.0
70°	9.0	12.6	17.0	21.4	24.8	28.3	32.7	37.1	45.6	62.7	69.0
72.5°	5.8	9.2	12.9	16.6	18.7	20.9	24.8	28.8	37.6	45.5	48.7
75°	4.1	6.4	8.6	10.7	11.9	13.0	15.9	18.7	24.8	29.8	32.7
77.5°	3.1	5.1	6.3	7.6	8.0	8.4	10.0	11.6	15.5	16.8	19.3
80°	1.8	3.0	3.8	4.7	4.7	4.7	5.3	6.0	8.6	9.2	11.2
82.5°	0.6	1.2	1.5	1.8	1.8	1.8	2.1	2.5	3.6	4.3	5.7
85°	0.1	0.1	0.3	0.5	0.5	0.6	0.5	0.4	0.9	1.5	2.0
87.5°	0.0	0.0	0.1	0.1	0.1	0.1	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°	174.8	174.8	174.8	174.8	174.8	174.8	174.8
2.5°	174.1	174.3	174.6	175.4	176.1	176.6	176.0
5°	166.7	167.8	168.9	170.1	171.3	173.1	175.4
7.5°	158.7	160.2	161.6	163.4	165.2	167.4	169.7
10°	154.5	156.3	158.1	160.9	163.7	167.4	170.3
12.5°	150.9	153.8	156.8	162.4	168.1	175.8	182.8
15°	149.1	154.2	159.3	169.9	180.4	194.3	208.8
17.5°	147.2	155.8	164.5	183.8	203.1	229.7	261.3
20°	146.1	160.1	174.1	205.7	237.4	280.7	329.0
22.5°	147.0	169.8	192.5	240.9	289.2	350.1	408.6
25°	146.7	180.4	214.0	282.4	350.8	433.3	504.9
27.5°	148.6	198.6	248.6	339.2	429.8	527.2	603.0
30°	153.2	220.6	288.0	402.7	517.6	634.6	720.2
32.5°	158.4	245.3	332.2	474.0	615.7	752.3	843.1
35°	165.9	276.6	387.2	555.0	722.8	872.2	955.3
37.5°	173.5	311.7	450.0	646.6	843.3	1003.8	1080.5
40°	180.6	346.2	511.8	741.5	971.4	1148.2	1212.9
42.5°	187.0	377.1	567.2	833.6	1100.0	1301.9	1374.0
45°	192.7	403.3	614.1	934.7	1255.5	1523.0	1665.1
47.5°	197.4	419.3	641.2	1047.9	1454.7	1852.7	2089.8
50°	202.2	426.4	650.6	1156.5	1662.4	2240.2	2652.5
52.5°	200.5	414.7	628.8	1203.2	1777.5	2518.0	3160.7
55°	192.2	387.2	582.2	1180.2	1778.2	2623.6	3484.6
57.5°	185.6	348.9	512.1	1063.0	1613.9	2490.6	3597.3
60°	190.6	289.4	388.3	861.0	1333.7	2215.7	3372.5
62.5°	173.0	230.5	288.0	683.0	1078.0	1887.3	3001.2
65°	148.8	175.8	202.8	536.5	870.1	1580.0	2566.3
67.5°	103.1	115.1	127.0	398.5	670.0	1270.3	2198.9
70°	75.2	82.2	89.2	295.7	502.2	983.8	1814.5
72.5°	51.9	56.9	61.9	196.6	331.3	678.6	1382.9
75°	35.7	39.4	43.1	123.5	204.0	433.4	963.6
77.5°	21.8	24.6	27.4	67.3	107.1	227.1	516.8
80°	13.1	15.0	17.0	26.9	36.9	68.9	152.1
82.5°	7.0	8.1	9.2	11.2	13.1	21.0	45.9
85°	2.5	3.0	3.5	3.7	4.1	5.1	10.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.2	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)