

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: P1209478

Luminaire Tested: UPW-SA2-130-727-U-SLL-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-947-2)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-130-727-U-SLL-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 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: 8561 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

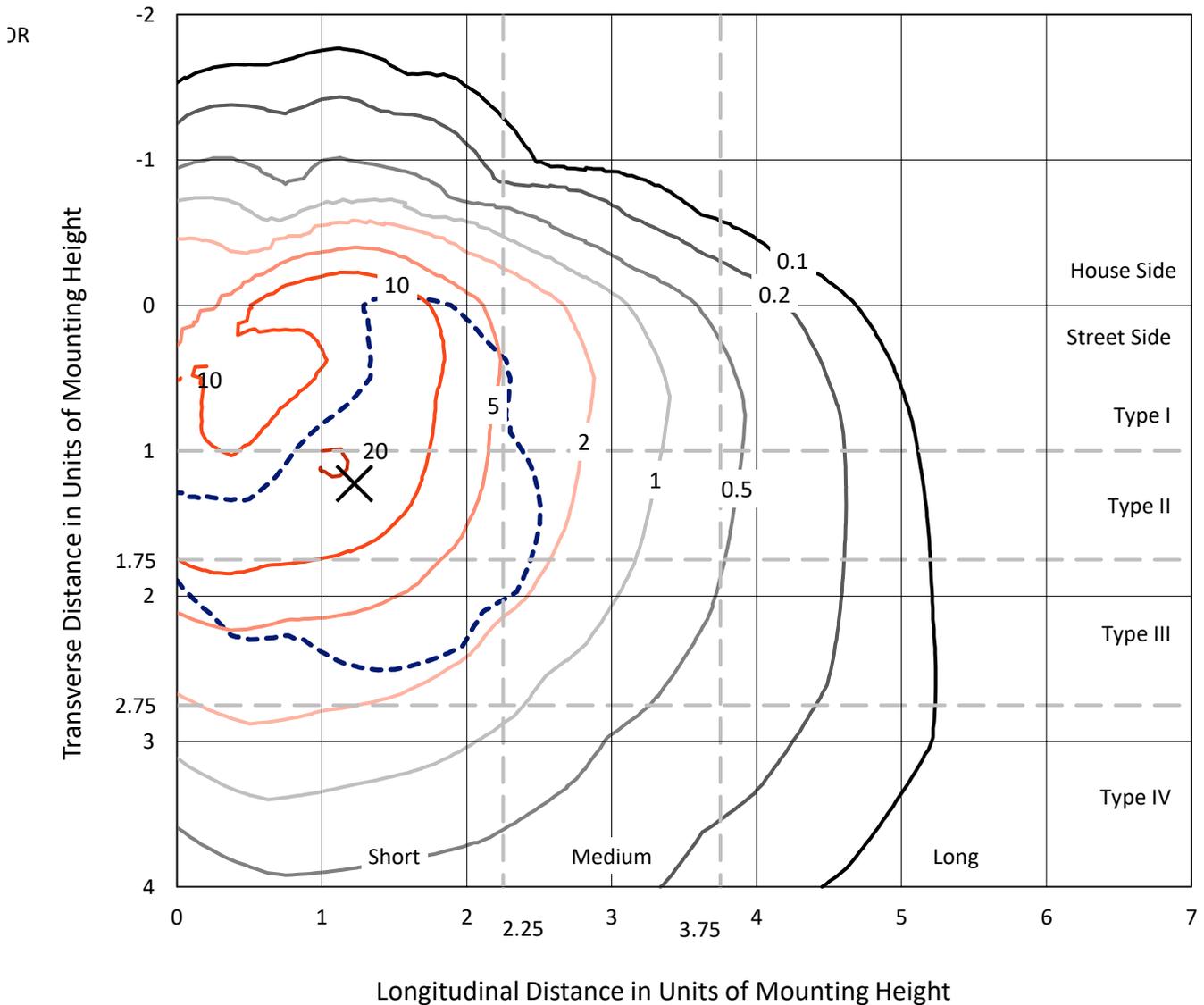
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

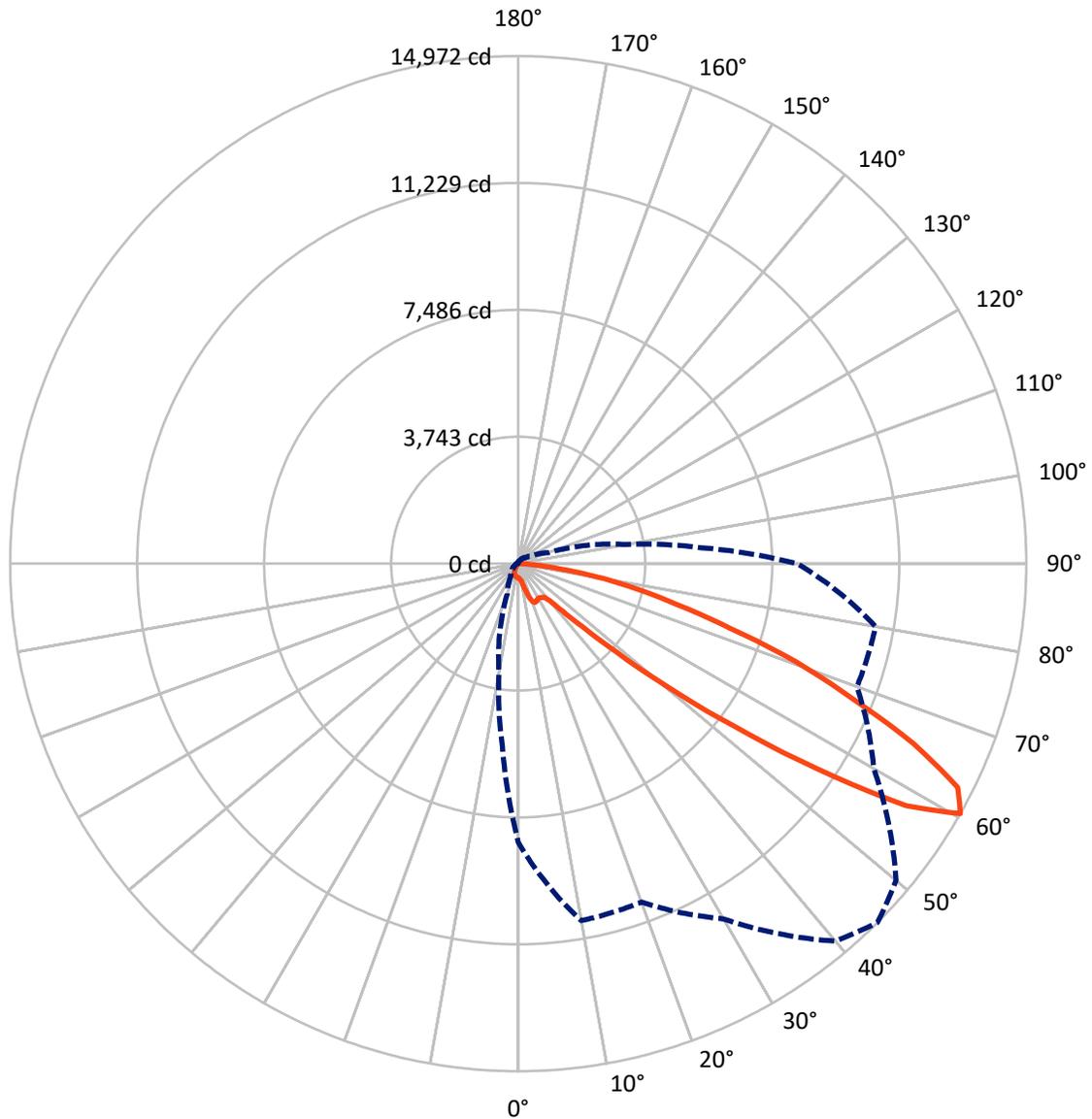
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.6 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	986.3	0.0	986.3
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	7574.7	0.0	7574.7
	% Fixture	88.5	0.0	88.5
Total	Lumens	8561.0	0.0	8561.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.9	0.5
10°-20°	132.1	1.5
20°-30°	285.3	3.3
30°-40°	480.6	5.6
40°-50°	970.6	11.3
50°-60°	2496.5	29.2
60°-70°	2714.2	31.7
70°-80°	1278.6	14.9
80°-90°	164.1	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°	8561.0	100.0
0°-180°	8561.0	100.0



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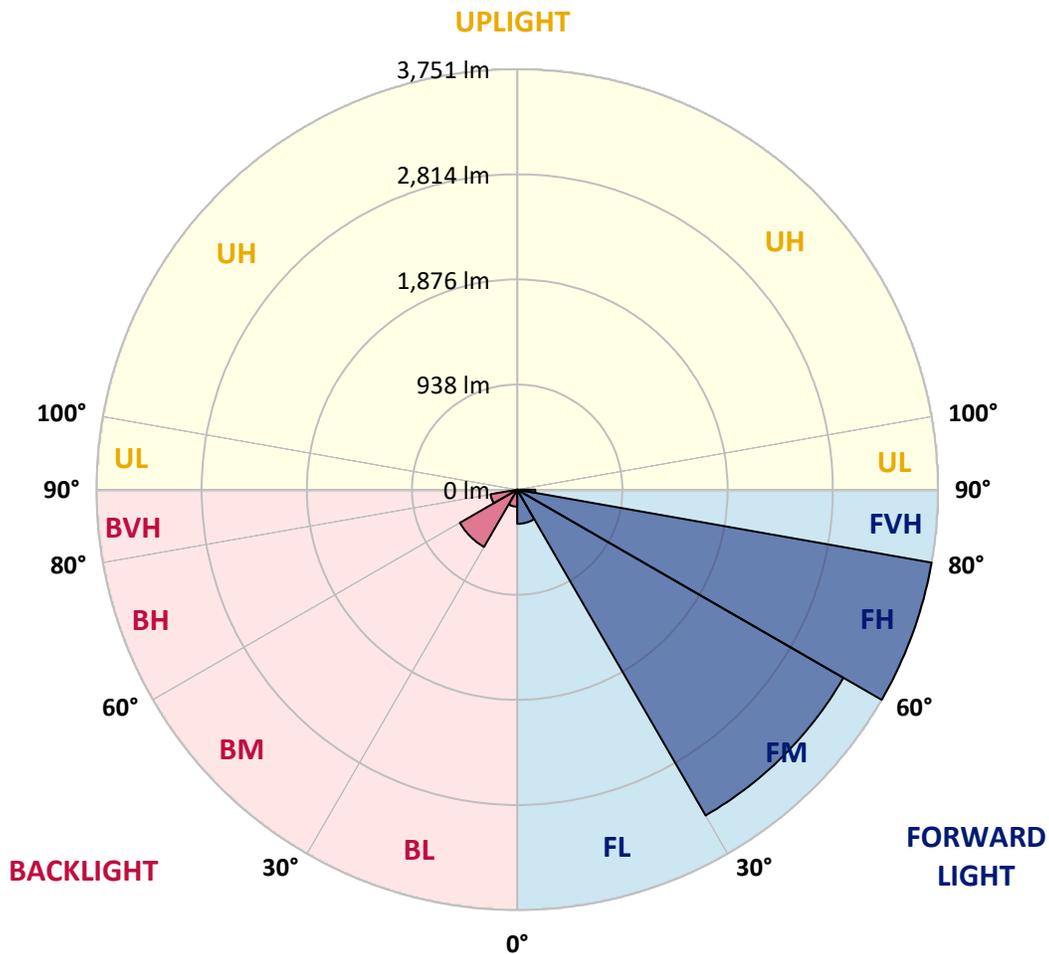
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	304.7	3.6			
FM	(30°-60°)	3357.3	39.2			
FH	(60°-80°)	3751.5	43.8			G2/5000
FVH	(80°-90°)	161.3	1.9			G2/225
BL	(0°-30°)	151.6	1.8	B1/500		
BM	(30°-60°)	590.4	6.9	B1/1000		
BH	(60°-80°)	241.4	2.8	B1/500		G1/500
BVH	(80°-90°)	2.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8
2.5°	428.7	430.0	431.3	433.2	435.2	436.1	437.1	437.5	438.0	434.5	438.0
5°	427.2	430.9	434.5	438.9	443.2	445.5	447.9	449.0	450.2	453.4	450.2
7.5°	413.4	422.7	431.9	440.3	448.7	455.1	461.8	467.3	472.9	476.6	472.9
10°	414.9	431.7	448.7	465.2	481.7	494.4	507.2	515.7	524.3	529.0	524.3
12.5°	445.4	472.9	500.2	527.8	555.4	581.4	607.4	624.7	642.0	653.9	642.0
15°	508.6	560.2	611.8	660.0	708.4	748.7	789.1	810.4	831.8	834.1	831.8
17.5°	636.5	711.9	787.3	851.4	915.5	958.4	1001.2	1021.7	1042.2	1047.7	1042.2
20°	801.4	896.3	991.1	1051.5	1112.0	1140.7	1169.5	1180.3	1191.0	1184.3	1191.0
22.5°	995.4	1096.0	1196.7	1238.1	1279.5	1276.8	1274.1	1265.1	1256.1	1241.0	1256.1
25°	1230.1	1313.7	1397.2	1388.5	1379.8	1344.3	1309.0	1279.1	1249.1	1235.2	1249.1
27.5°	1469.2	1514.3	1559.5	1497.6	1435.7	1368.3	1300.9	1260.9	1220.8	1196.0	1220.8
30°	1754.7	1725.5	1696.1	1586.0	1475.7	1390.4	1304.9	1257.6	1210.2	1181.4	1210.2
32.5°	2054.1	1950.9	1847.7	1690.6	1533.4	1434.1	1334.7	1279.9	1225.0	1190.1	1225.0
35°	2327.2	2158.1	1989.1	1790.0	1590.9	1484.0	1377.3	1314.0	1250.9	1223.6	1250.9
37.5°	2632.4	2377.5	2122.8	1881.3	1639.9	1523.2	1406.7	1348.5	1290.6	1261.3	1290.6
40°	2955.0	2620.1	2285.1	2003.0	1720.8	1618.2	1515.7	1477.6	1439.5	1431.4	1439.5
42.5°	3347.4	2936.0	2524.4	2222.8	1921.1	1872.5	1824.0	1836.9	1849.7	1902.2	1849.7
45°	4056.5	3553.9	3051.4	2710.7	2370.1	2388.1	2406.2	2505.1	2604.2	2662.2	2604.2
47.5°	5091.2	4544.6	3998.0	3563.3	3128.7	3249.6	3370.6	3611.0	3851.5	3903.2	3851.5
50°	6462.2	5881.1	5300.0	4757.5	4214.9	4469.9	4725.0	5184.5	5643.8	5719.7	5643.8
52.5°	7700.3	7252.2	6804.0	6169.3	5534.4	5967.4	6400.5	7074.9	7749.4	7956.1	7749.4
55°	8489.4	8635.9	8782.2	8115.9	7449.7	7977.7	8505.7	9394.4	10283.2	10679.3	10283.2
57.5°	8764.0	9629.6	10495.1	10028.4	9561.8	10106.8	10651.7	11750.0	12848.3	13473.8	12848.3
60°	8216.2	9454.9	10693.6	10656.9	10620.5	11360.0	12099.4	13317.4	14535.4	14972.0	14535.4
62.5°	7311.6	8333.2	9354.8	9540.3	9726.0	10767.8	11809.6	12947.1	14084.7	14531.7	14084.7
65°	6252.2	7166.1	8079.9	8223.5	8367.0	9479.3	10591.8	11619.2	12646.6	12798.0	12646.6
67.5°	5357.1	6282.0	7207.0	7297.2	7387.6	8333.9	9280.2	10042.0	10803.7	10616.8	10803.7
70°	4420.5	5398.7	6376.8	6526.3	6675.8	7345.8	8015.7	8460.9	8906.2	8681.2	8906.2
72.5°	3369.2	4359.8	5350.6	5488.6	5626.7	6091.8	6557.0	6777.3	6997.3	6553.8	6997.3
75°	2347.6	3199.0	4050.3	4231.6	4413.0	4739.1	5065.4	5154.1	5242.7	4833.2	5242.7
77.5°	1259.2	1829.8	2400.6	2721.9	3043.2	3396.9	3750.6	3792.8	3834.9	3563.2	3834.9
80°	370.6	632.1	893.7	1271.4	1649.1	2074.0	2499.2	2519.6	2540.1	2338.1	2540.1
82.5°	111.9	225.4	338.9	601.6	864.3	1173.3	1482.2	1453.2	1424.0	1219.2	1424.0
85°	24.7	78.5	132.2	292.1	451.9	593.0	734.1	676.7	619.3	502.8	619.3
87.5°	3.6	21.7	39.5	104.0	168.6	203.4	238.3	194.6	150.8	136.6	150.8
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°	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8
2.5°	437.5	437.1	436.1	435.2	433.2	431.3	430.0	428.7	430.1	429.0	427.2
5°	449.0	447.9	445.5	443.2	438.9	434.5	430.9	427.2	421.7	417.3	414.4
7.5°	467.3	461.8	455.1	448.7	440.3	431.9	422.7	413.4	407.8	402.5	398.2
10°	515.7	507.2	494.4	481.7	465.2	448.7	431.7	414.9	407.9	398.9	392.1
12.5°	624.7	607.4	581.4	555.4	527.8	500.2	472.9	445.4	428.2	409.5	395.6
15°	810.4	789.1	748.7	708.4	660.0	611.8	560.2	508.6	473.4	439.6	413.9
17.5°	1021.7	1001.2	958.4	915.5	851.4	787.3	711.9	636.5	559.6	494.8	447.7
20°	1180.3	1169.5	1140.7	1112.0	1051.5	991.1	896.3	801.4	683.9	578.4	501.2
22.5°	1265.1	1274.1	1276.8	1279.5	1238.1	1196.7	1096.0	995.4	853.0	704.5	586.8
25°	1279.1	1309.0	1344.3	1379.8	1388.5	1397.2	1313.7	1230.1	1055.7	854.8	688.1
27.5°	1260.9	1300.9	1368.3	1435.7	1497.6	1559.5	1514.3	1469.2	1284.5	1047.0	826.3
30°	1257.6	1304.9	1390.4	1475.7	1586.0	1696.1	1725.5	1754.7	1546.0	1261.1	981.2
32.5°	1279.9	1334.7	1434.1	1533.4	1690.6	1847.7	1950.9	2054.1	1832.9	1500.0	1154.7
35°	1314.0	1377.3	1484.0	1590.9	1790.0	1989.1	2158.1	2327.2	2124.8	1760.9	1352.2
37.5°	1348.5	1406.7	1523.2	1639.9	1881.3	2122.8	2377.5	2632.4	2445.5	2054.5	1575.4
40°	1477.6	1515.7	1618.2	1720.8	2003.0	2285.1	2620.1	2955.0	2797.3	2366.5	1806.6
42.5°	1836.9	1824.0	1872.5	1921.1	2222.8	2524.4	2936.0	3347.4	3171.7	2679.9	2030.9
45°	2505.1	2406.2	2388.1	2370.1	2710.7	3051.4	3553.9	4056.5	3710.5	3058.6	2277.3
47.5°	3611.0	3370.6	3249.6	3128.7	3563.3	3998.0	4544.6	5091.2	4513.5	3544.0	2553.1
50°	5184.5	4725.0	4469.9	4214.9	4757.5	5300.0	5881.1	6462.2	5457.7	4050.0	2817.5
52.5°	7074.9	6400.5	5967.4	5534.4	6169.3	6804.0	7252.2	7700.3	6134.5	4330.4	2931.2
55°	9394.4	8505.7	7977.7	7449.7	8115.9	8782.2	8635.9	8489.4	6391.8	4332.2	2875.2
57.5°	11750.0	10651.7	10106.8	9561.8	10028.4	10495.1	9629.6	8764.0	6067.7	3932.0	2589.7
60°	13317.4	12099.4	11360.0	10620.5	10656.9	10693.6	9454.9	8216.2	5398.1	3249.3	2097.6
62.5°	12947.1	11809.6	10767.8	9726.0	9540.3	9354.8	8333.2	7311.6	4598.0	2626.2	1663.9
65°	11619.2	10591.8	9479.3	8367.0	8223.5	8079.9	7166.1	6252.2	3849.3	2119.9	1307.0
67.5°	10042.0	9280.2	8333.9	7387.6	7297.2	7207.0	6282.0	5357.1	3094.7	1632.2	970.9
70°	8460.9	8015.7	7345.8	6675.8	6526.3	6376.8	5398.7	4420.5	2396.7	1223.6	720.5
72.5°	6777.3	6557.0	6091.8	5626.7	5488.6	5350.6	4359.8	3369.2	1653.3	807.2	479.0
75°	5154.1	5065.4	4739.1	4413.0	4231.6	4050.3	3199.0	2347.6	1055.9	497.0	301.0
77.5°	3792.8	3750.6	3396.9	3043.2	2721.9	2400.6	1829.8	1259.2	553.2	260.8	163.9
80°	2519.6	2499.2	2074.0	1649.1	1271.4	893.7	632.1	370.6	167.8	89.8	65.5
82.5°	1453.2	1482.2	1173.3	864.3	601.6	338.9	225.4	111.9	51.2	32.0	27.3
85°	676.7	734.1	593.0	451.9	292.1	132.2	78.5	24.7	12.5	9.9	9.0
87.5°	194.6	238.3	203.4	168.6	104.0	39.5	21.7	3.6	0.6	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°	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8
2.5°	425.5	424.6	424.0	423.5	422.9	421.4	420.8	421.3	421.7	421.1	420.3
5°	411.5	408.9	406.2	403.3	400.3	398.2	394.7	394.7	394.5	395.6	396.7
7.5°	393.8	390.2	386.5	383.9	381.5	380.0	379.6	377.0	374.6	374.6	374.6
10°	385.1	380.7	376.4	372.3	368.4	364.7	365.5	363.9	362.1	361.1	360.1
12.5°	381.9	374.8	367.7	363.3	358.9	356.0	354.3	352.1	349.9	348.6	347.3
15°	388.0	375.6	363.3	357.6	352.0	347.3	341.2	339.9	338.6	337.0	335.4
17.5°	400.8	379.6	358.6	350.9	343.2	337.9	334.5	331.0	327.7	324.8	321.9
20°	424.0	390.0	356.0	345.6	335.0	329.9	324.6	320.1	315.6	311.7	307.8
22.5°	469.1	413.6	358.2	341.8	325.5	318.2	309.8	305.7	302.0	297.2	292.4
25°	521.4	439.4	357.5	334.5	311.7	303.7	299.1	293.4	287.7	282.5	277.3
27.5°	605.7	483.9	362.1	331.0	299.6	289.9	285.0	279.6	274.4	268.8	263.3
30°	701.6	537.4	373.2	330.4	287.7	275.4	270.9	266.2	261.6	255.9	250.2
32.5°	809.4	597.5	385.8	332.5	279.0	265.9	257.5	252.3	247.0	242.0	236.9
35°	943.4	674.0	404.3	334.1	263.7	249.2	242.1	237.7	233.2	227.6	222.0
37.5°	1096.4	759.4	422.6	335.5	248.5	232.5	227.9	224.4	220.9	214.9	209.0
40°	1246.8	843.4	440.0	338.0	236.1	218.7	213.0	210.6	208.1	202.3	196.5
42.5°	1382.0	918.7	455.6	342.4	229.3	202.0	199.2	196.0	193.0	187.5	181.9
45°	1496.0	982.6	469.4	350.8	232.2	187.5	182.5	179.8	177.0	173.2	169.7
47.5°	1562.2	1021.6	481.0	363.4	245.9	178.0	163.6	161.9	160.1	159.1	158.1
50°	1585.1	1038.9	492.6	382.3	272.0	187.5	158.4	152.4	146.5	146.5	146.5
52.5°	1531.9	1010.2	488.6	394.1	299.6	219.4	167.3	150.0	132.5	132.2	131.9
55°	1418.3	943.3	468.2	395.6	322.9	263.7	189.1	155.2	121.3	118.3	115.1
57.5°	1247.5	850.0	452.2	382.9	313.6	281.2	206.6	161.0	115.1	106.4	97.7
60°	946.0	705.1	464.3	371.4	278.7	252.9	202.6	158.4	114.5	98.8	83.1
62.5°	701.6	561.5	421.4	330.7	240.1	200.5	180.9	148.9	117.0	95.0	72.9
65°	494.1	428.4	362.6	294.7	226.7	157.7	149.4	131.9	114.5	90.7	66.8
67.5°	309.5	280.3	251.1	221.6	192.1	131.5	116.5	103.9	91.3	75.0	58.9
70°	217.2	200.2	183.1	168.0	152.9	111.2	90.4	79.6	69.0	60.5	52.0
72.5°	150.8	138.6	126.4	118.6	110.7	91.5	70.0	60.5	50.9	45.6	40.4
75°	104.9	95.9	86.9	79.8	72.7	60.3	45.6	38.7	31.7	28.9	26.2
77.5°	66.8	59.9	53.0	47.1	41.0	37.8	28.3	24.4	20.3	19.5	18.6
80°	41.4	36.6	32.0	27.3	22.5	21.1	14.5	12.9	11.3	11.3	11.3
82.5°	22.5	19.8	17.1	13.8	10.5	8.7	6.1	5.2	4.4	4.4	4.4
85°	8.4	7.3	6.1	4.9	3.6	2.2	0.9	1.2	1.5	1.3	1.2
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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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8
2.5°	419.1	417.8	418.8	420.0	418.7	417.3	417.6	417.8	416.3	414.9	413.3
5°	396.9	397.0	398.7	400.3	400.9	401.4	401.9	402.5	402.8	403.3	403.4
7.5°	374.9	375.2	376.2	377.1	378.4	379.6	382.8	385.8	387.4	389.2	391.0
10°	359.2	358.6	361.7	364.7	365.6	366.5	370.3	373.8	375.8	377.8	379.4
12.5°	345.9	344.4	345.9	347.3	350.1	352.8	358.1	363.3	367.4	371.3	372.2
15°	333.9	332.5	333.6	335.0	336.4	337.9	343.1	348.5	353.0	357.5	359.7
17.5°	319.4	316.8	315.6	314.6	319.4	324.1	328.6	333.1	337.9	342.7	346.7
20°	304.6	301.5	300.8	300.1	302.1	304.0	309.8	315.6	321.4	327.3	329.1
22.5°	288.0	283.7	282.5	281.2	282.2	283.4	286.3	289.2	293.5	297.9	301.1
25°	272.6	268.1	264.5	260.8	261.0	261.3	262.9	264.5	266.1	267.7	269.6
27.5°	258.1	252.9	248.2	243.4	241.5	239.8	238.2	236.6	236.1	235.7	235.4
30°	244.0	237.6	232.5	227.4	222.2	216.8	213.5	210.0	206.3	202.7	200.0
32.5°	230.8	224.5	215.4	206.3	200.8	195.5	189.1	182.8	176.1	169.7	165.4
35°	215.1	208.1	199.7	191.1	181.8	172.6	163.3	154.0	145.3	136.6	131.7
37.5°	200.4	191.8	182.8	173.7	160.7	147.9	137.2	126.4	117.6	108.7	103.5
40°	186.6	176.6	164.2	151.9	137.9	123.8	112.2	100.6	92.1	83.6	79.2
42.5°	172.3	162.8	148.5	134.4	119.0	103.5	91.4	79.2	71.9	64.7	60.7
45°	158.7	147.9	131.4	114.8	100.3	85.7	75.3	64.7	57.8	50.9	47.8
47.5°	146.5	134.9	117.6	100.3	86.5	72.7	62.8	53.0	46.6	40.4	37.5
50°	134.6	122.8	105.4	87.9	75.3	62.5	53.8	45.0	39.1	33.1	30.2
52.5°	121.5	111.2	94.2	77.0	67.0	57.0	48.7	40.4	34.0	27.6	24.7
55°	105.9	96.6	82.5	68.3	59.3	50.1	42.7	35.2	28.5	21.8	18.7
57.5°	90.0	82.1	70.0	58.1	50.6	42.9	35.7	28.8	22.4	16.0	13.4
60°	76.1	69.0	58.9	48.7	41.3	33.7	27.6	21.5	15.8	10.2	7.6
62.5°	65.7	58.4	48.5	38.5	32.6	26.4	21.1	15.7	10.3	5.1	2.8
65°	58.0	49.1	40.5	32.0	25.4	18.9	14.0	9.0	5.5	1.7	0.9
67.5°	49.3	39.5	31.4	23.3	17.6	11.9	7.8	3.6	1.7	0.0	0.0
70°	41.4	30.8	21.9	13.1	8.7	4.4	2.6	0.7	0.3	0.0	0.0
72.5°	31.4	22.5	14.2	5.8	3.8	1.7	1.2	0.3	0.1	0.0	0.0
75°	20.9	15.7	10.0	4.4	2.8	1.2	0.6	0.0	0.0	0.0	0.0
77.5°	15.4	12.4	7.6	2.9	1.7	0.7	0.3	0.0	0.0	0.0	0.0
80°	9.3	7.3	4.4	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.6	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.7	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°	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8
2.5°	411.5	411.2	411.5	413.3	414.9	416.3	417.8	417.6	417.3	418.7	420.0
5°	403.7	404.0	403.7	403.4	403.3	402.8	402.5	401.9	401.4	400.9	400.3
7.5°	393.1	396.7	393.1	391.0	389.2	387.4	385.8	382.8	379.6	378.4	377.1
10°	381.0	383.6	381.0	379.4	377.8	375.8	373.8	370.3	366.5	365.6	364.7
12.5°	373.2	373.5	373.2	372.2	371.3	367.4	363.3	358.1	352.8	350.1	347.3
15°	361.8	363.3	361.8	359.7	357.5	353.0	348.5	343.1	337.9	336.4	335.0
17.5°	350.9	353.1	350.9	346.7	342.7	337.9	333.1	328.6	324.1	319.4	314.6
20°	331.0	329.9	331.0	329.1	327.3	321.4	315.6	309.8	304.0	302.1	300.1
22.5°	304.4	308.1	304.4	301.1	297.9	293.5	289.2	286.3	283.4	282.2	281.2
25°	271.5	273.2	271.5	269.6	267.7	266.1	264.5	262.9	261.3	261.0	260.8
27.5°	235.1	234.0	235.1	235.4	235.7	236.1	236.6	238.2	239.8	241.5	243.4
30°	197.3	196.2	197.3	200.0	202.7	206.3	210.0	213.5	216.8	222.2	227.4
32.5°	161.0	158.4	161.0	165.4	169.7	176.1	182.8	189.1	195.5	200.8	206.3
35°	126.7	125.0	126.7	131.7	136.6	145.3	154.0	163.3	172.6	181.8	191.1
37.5°	98.5	95.9	98.5	103.5	108.7	117.6	126.4	137.2	147.9	160.7	173.7
40°	74.8	72.7	74.8	79.2	83.6	92.1	100.6	112.2	123.8	137.9	151.9
42.5°	56.7	53.8	56.7	60.7	64.7	71.9	79.2	91.4	103.5	119.0	134.4
45°	44.8	43.6	44.8	47.8	50.9	57.8	64.7	75.3	85.7	100.3	114.8
47.5°	34.6	33.4	34.6	37.5	40.4	46.6	53.0	62.8	72.7	86.5	100.3
50°	27.3	26.2	27.3	30.2	33.1	39.1	45.0	53.8	62.5	75.3	87.9
52.5°	21.8	20.3	21.8	24.7	27.6	34.0	40.4	48.7	57.0	67.0	77.0
55°	15.7	14.5	15.7	18.7	21.8	28.5	35.2	42.7	50.1	59.3	68.3
57.5°	10.9	10.2	10.9	13.4	16.0	22.4	28.8	35.7	42.9	50.6	58.1
60°	5.1	4.4	5.1	7.6	10.2	15.8	21.5	27.6	33.7	41.3	48.7
62.5°	0.3	0.0	0.3	2.8	5.1	10.3	15.7	21.1	26.4	32.6	38.5
65°	0.0	0.0	0.0	0.9	1.7	5.5	9.0	14.0	18.9	25.4	32.0
67.5°	0.0	0.0	0.0	0.0	0.0	1.7	3.6	7.8	11.9	17.6	23.3
70°	0.0	0.0	0.0	0.0	0.0	0.3	0.7	2.6	4.4	8.7	13.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.2	1.7	3.8	5.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	2.8	4.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	1.7	2.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.5
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°	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8
2.5°	418.8	417.8	419.1	420.3	421.1	421.7	421.3	420.8	421.4	422.9	423.5
5°	398.7	397.0	396.9	396.7	395.6	394.5	394.7	394.7	398.2	400.3	403.3
7.5°	376.2	375.2	374.9	374.6	374.6	374.6	377.0	379.6	380.0	381.5	383.9
10°	361.7	358.6	359.2	360.1	361.1	362.1	363.9	365.5	364.7	368.4	372.3
12.5°	345.9	344.4	345.9	347.3	348.6	349.9	352.1	354.3	356.0	358.9	363.3
15°	333.6	332.5	333.9	335.4	337.0	338.6	339.9	341.2	347.3	352.0	357.6
17.5°	315.6	316.8	319.4	321.9	324.8	327.7	331.0	334.5	337.9	343.2	350.9
20°	300.8	301.5	304.6	307.8	311.7	315.6	320.1	324.6	329.9	335.0	345.6
22.5°	282.5	283.7	288.0	292.4	297.2	302.0	305.7	309.8	318.2	325.5	341.8
25°	264.5	268.1	272.6	277.3	282.5	287.7	293.4	299.1	303.7	311.7	334.5
27.5°	248.2	252.9	258.1	263.3	268.8	274.4	279.6	285.0	289.9	299.6	331.0
30°	232.5	237.6	244.0	250.2	255.9	261.6	266.2	270.9	275.4	287.7	330.4
32.5°	215.4	224.5	230.8	236.9	242.0	247.0	252.3	257.5	265.9	279.0	332.5
35°	199.7	208.1	215.1	222.0	227.6	233.2	237.7	242.1	249.2	263.7	334.1
37.5°	182.8	191.8	200.4	209.0	214.9	220.9	224.4	227.9	232.5	248.5	335.5
40°	164.2	176.6	186.6	196.5	202.3	208.1	210.6	213.0	218.7	236.1	338.0
42.5°	148.5	162.8	172.3	181.9	187.5	193.0	196.0	199.2	202.0	229.3	342.4
45°	131.4	147.9	158.7	169.7	173.2	177.0	179.8	182.5	187.5	232.2	350.8
47.5°	117.6	134.9	146.5	158.1	159.1	160.1	161.9	163.6	178.0	245.9	363.4
50°	105.4	122.8	134.6	146.5	146.5	146.5	152.4	158.4	187.5	272.0	382.3
52.5°	94.2	111.2	121.5	131.9	132.2	132.5	150.0	167.3	219.4	299.6	394.1
55°	82.5	96.6	105.9	115.1	118.3	121.3	155.2	189.1	263.7	322.9	395.6
57.5°	70.0	82.1	90.0	97.7	106.4	115.1	161.0	206.6	281.2	313.6	382.9
60°	58.9	69.0	76.1	83.1	98.8	114.5	158.4	202.6	252.9	278.7	371.4
62.5°	48.5	58.4	65.7	72.9	95.0	117.0	148.9	180.9	200.5	240.1	330.7
65°	40.5	49.1	58.0	66.8	90.7	114.5	131.9	149.4	157.7	226.7	294.7
67.5°	31.4	39.5	49.3	58.9	75.0	91.3	103.9	116.5	131.5	192.1	221.6
70°	21.9	30.8	41.4	52.0	60.5	69.0	79.6	90.4	111.2	152.9	168.0
72.5°	14.2	22.5	31.4	40.4	45.6	50.9	60.5	70.0	91.5	110.7	118.6
75°	10.0	15.7	20.9	26.2	28.9	31.7	38.7	45.6	60.3	72.7	79.8
77.5°	7.6	12.4	15.4	18.6	19.5	20.3	24.4	28.3	37.8	41.0	47.1
80°	4.4	7.3	9.3	11.3	11.3	11.3	12.9	14.5	21.1	22.5	27.3
82.5°	1.5	2.9	3.6	4.4	4.4	4.4	5.2	6.1	8.7	10.5	13.8
85°	0.1	0.3	0.7	1.2	1.3	1.5	1.2	0.9	2.2	3.6	4.9
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°	425.8	425.8	425.8	425.8	425.8	425.8	425.8
2.5°	424.0	424.6	425.5	427.2	429.0	430.1	428.7
5°	406.2	408.9	411.5	414.4	417.3	421.7	427.2
7.5°	386.5	390.2	393.8	398.2	402.5	407.8	413.4
10°	376.4	380.7	385.1	392.1	398.9	407.9	414.9
12.5°	367.7	374.8	381.9	395.6	409.5	428.2	445.4
15°	363.3	375.6	388.0	413.9	439.6	473.4	508.6
17.5°	358.6	379.6	400.8	447.7	494.8	559.6	636.5
20°	356.0	390.0	424.0	501.2	578.4	683.9	801.4
22.5°	358.2	413.6	469.1	586.8	704.5	853.0	995.4
25°	357.5	439.4	521.4	688.1	854.8	1055.7	1230.1
27.5°	362.1	483.9	605.7	826.3	1047.0	1284.5	1469.2
30°	373.2	537.4	701.6	981.2	1261.1	1546.0	1754.7
32.5°	385.8	597.5	809.4	1154.7	1500.0	1832.9	2054.1
35°	404.3	674.0	943.4	1352.2	1760.9	2124.8	2327.2
37.5°	422.6	759.4	1096.4	1575.4	2054.5	2445.5	2632.4
40°	440.0	843.4	1246.8	1806.6	2366.5	2797.3	2955.0
42.5°	455.6	918.7	1382.0	2030.9	2679.9	3171.7	3347.4
45°	469.4	982.6	1496.0	2277.3	3058.6	3710.5	4056.5
47.5°	481.0	1021.6	1562.2	2553.1	3544.0	4513.5	5091.2
50°	492.6	1038.9	1585.1	2817.5	4050.0	5457.7	6462.2
52.5°	488.6	1010.2	1531.9	2931.2	4330.4	6134.5	7700.3
55°	468.2	943.3	1418.3	2875.2	4332.2	6391.8	8489.4
57.5°	452.2	850.0	1247.5	2589.7	3932.0	6067.7	8764.0
60°	464.3	705.1	946.0	2097.6	3249.3	5398.1	8216.2
62.5°	421.4	561.5	701.6	1663.9	2626.2	4598.0	7311.6
65°	362.6	428.4	494.1	1307.0	2119.9	3849.3	6252.2
67.5°	251.1	280.3	309.5	970.9	1632.2	3094.7	5357.1
70°	183.1	200.2	217.2	720.5	1223.6	2396.7	4420.5
72.5°	126.4	138.6	150.8	479.0	807.2	1653.3	3369.2
75°	86.9	95.9	104.9	301.0	497.0	1055.9	2347.6
77.5°	53.0	59.9	66.8	163.9	260.8	553.2	1259.2
80°	32.0	36.6	41.4	65.5	89.8	167.8	370.6
82.5°	17.1	19.8	22.5	27.3	32.0	51.2	111.9
85°	6.1	7.3	8.4	9.0	9.9	12.5	24.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)