

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P274489

Luminaire Tested: **ULA-A8-D-U-ASYM-VMx-7027-HSS-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1804-729-18)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ULA-A8-D-U-ASYM-VMx-7027-HSS-BK
Description: UTILITY LIGHT ACORN TYPE IV ASYMMETRIC W/ HOUSE SIDE SHIELD
Light Source: (120) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6858.4 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 2.17')
IES Classification: Type - Short - Non-Cutoff
BUG Rating: B1 - U5 - G4

Input Watts (W): 57.3
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

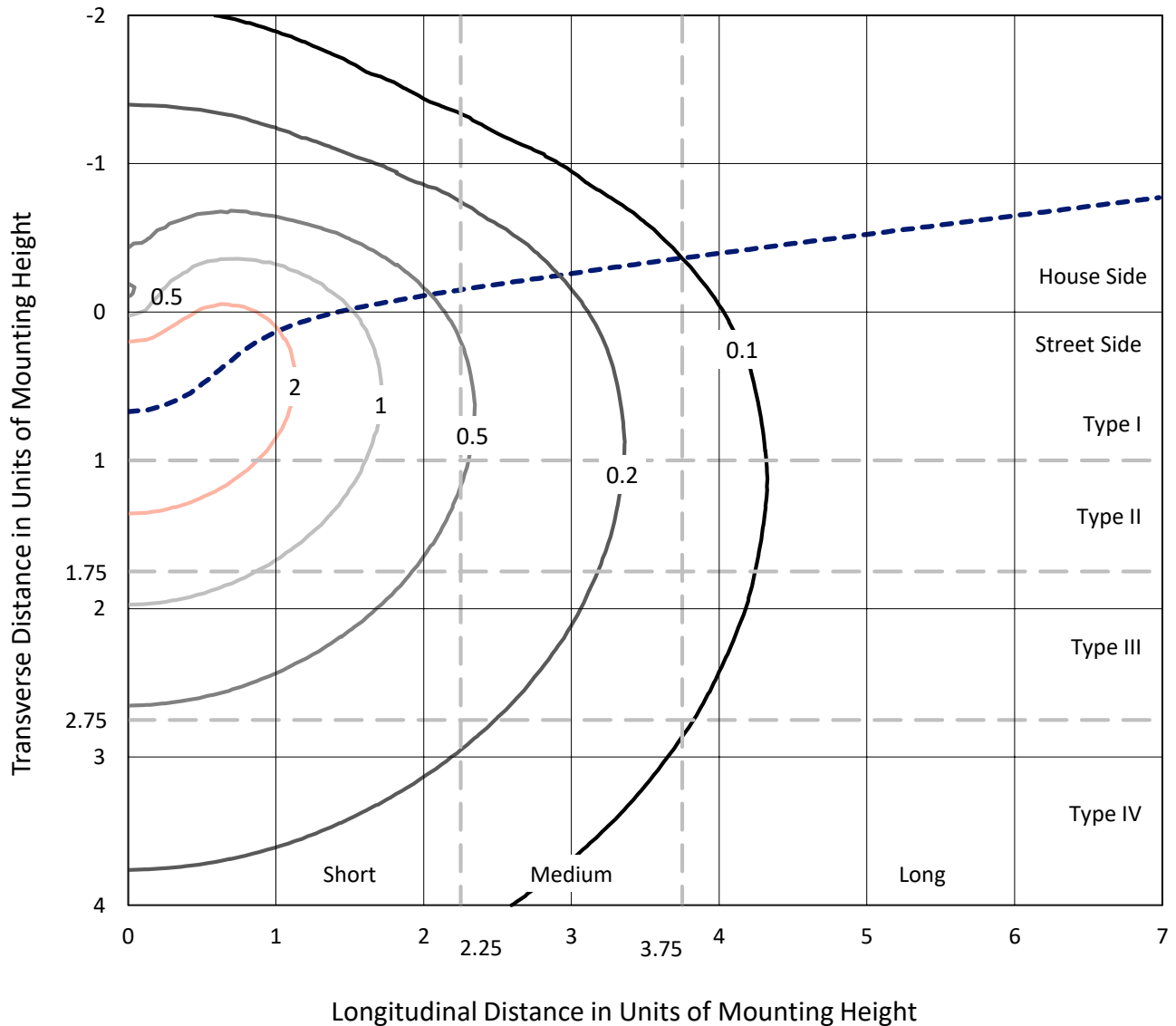


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

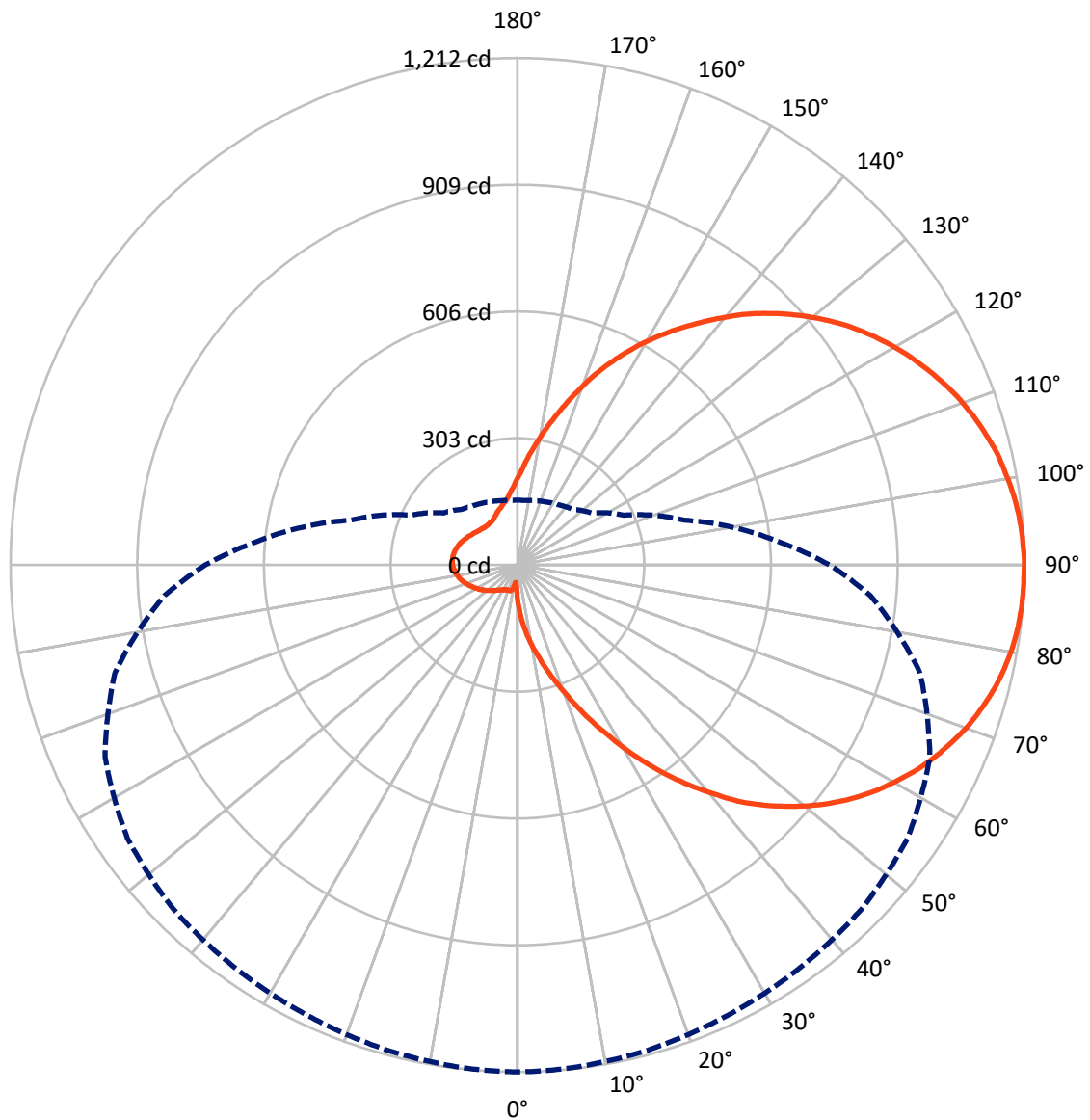


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 90-Deg Vertical

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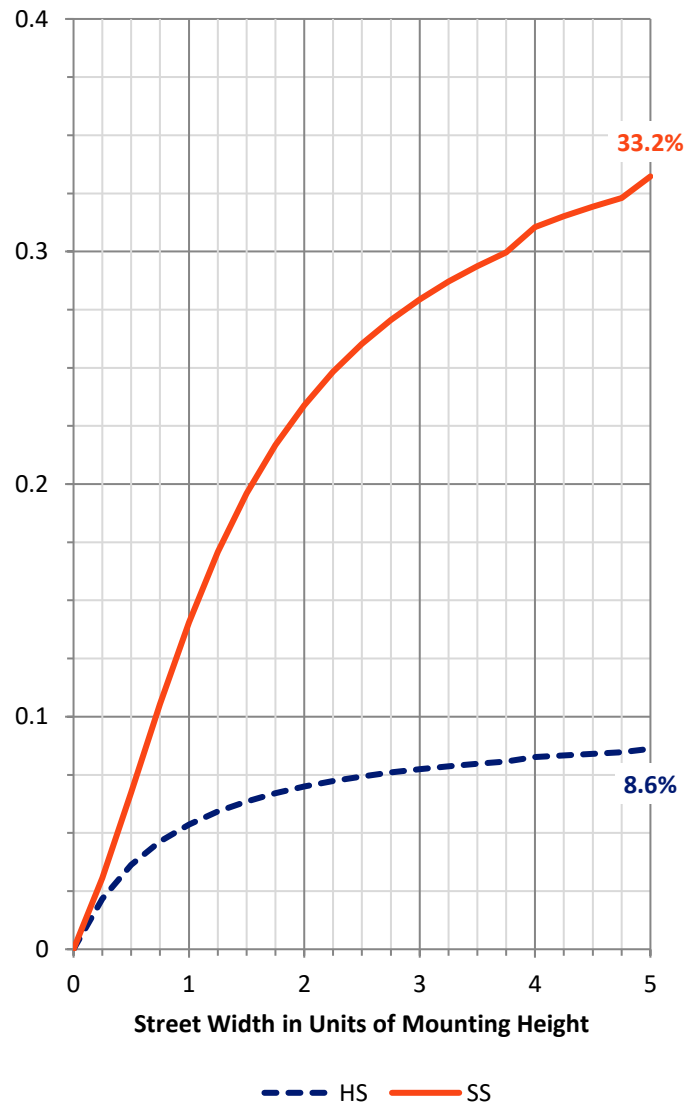
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	655.8	796.6	1452.4
	% Fixture	9.6	11.6	21.2
Street Side	Lumens	2659.9	2746.1	5406.0
	% Fixture	38.8	40.0	78.8
Total	Lumens	3315.7	3542.7	6858.4
	% Fixture	48.3	51.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	0.1
10°-20°	47.7	0.7
20°-30°	119.4	1.7
30°-40°	230.0	3.4
40°-50°	362.4	5.3
50°-60°	493.8	7.2
60°-70°	609.3	8.9
70°-80°	697.5	10.2
80°-90°	745.7	10.9
90°-100°	749.0	10.9
100°-110°	706.7	10.3
110°-120°	627.5	9.1
120°-130°	523.3	7.6
130°-140°	400.9	5.8
140°-150°	274.3	4.0
150°-160°	163.0	2.4
160°-170°	77.1	1.1
170°-180°	20.8	0.3
0°-90°	3315.7	48.3
0°-180°	6858.4	100.0



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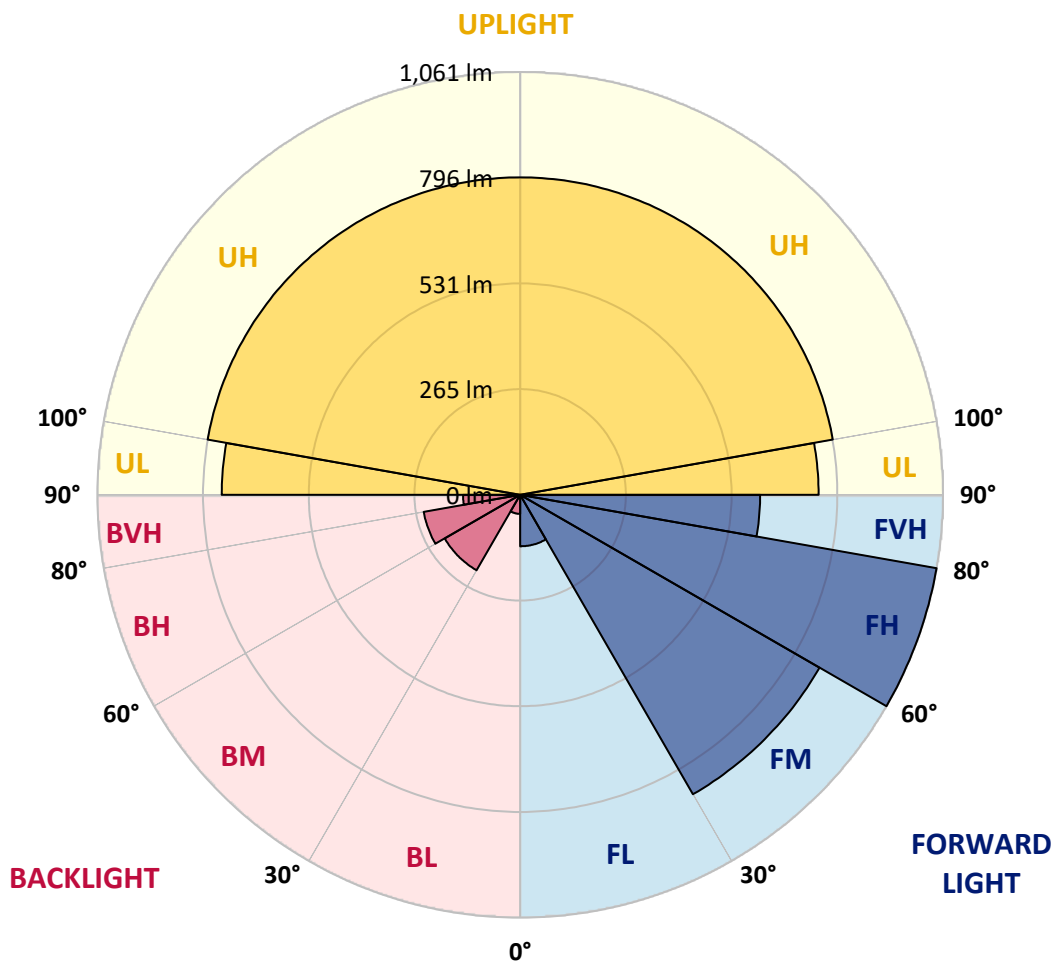
CATALOG NUMBER: ULA-A8-D-U-ASYM-VMx-7027-HSS-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	129.2	1.9			
FM	(30°-60°)	867.5	12.6			
FH	(60°-80°)	1061.1	15.5			G1/1800
FVH	(80°-90°)	602.1	8.8			G4/750
BL	(0°-30°)	47.9	0.7	B0/110		
BM	(30°-60°)	218.6	3.2	B0/220		
BH	(60°-80°)	245.7	3.6	B1/500		G1/500
BVH	(80°-90°)	143.5	2.1			G2/225
UL	(90°-100°)	749.0	10.9		U4/1000	
UH	(100°-180°)	796.6	11.6		U4/1000	

BUG Rating: B1-U5-G4

Type Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
2.5°	113.2	111.2	111.2	110.2	110.2	106.3	102.3	98.3	93.4	90.4	88.4
5°	143.0	140.0	139.0	136.1	133.1	126.1	121.2	113.2	106.3	97.3	93.4
7.5°	170.8	168.8	165.9	161.9	158.9	150.0	143.0	133.1	124.1	114.2	110.2
10°	198.6	196.6	193.7	189.7	183.7	176.8	168.8	156.9	146.0	134.1	128.1
12.5°	225.4	224.5	222.5	218.5	213.5	205.6	196.6	183.7	170.8	154.9	147.0
15°	258.2	256.2	254.2	250.3	245.3	236.4	226.4	213.5	196.6	178.8	169.8
17.5°	291.0	289.0	289.0	286.0	280.1	272.1	261.2	245.3	224.5	202.6	190.7
20°	327.7	325.8	325.8	322.8	316.8	308.9	297.0	280.1	257.2	228.4	214.5
22.5°	369.5	367.5	367.5	364.5	358.5	350.6	337.7	318.8	292.0	261.2	242.3
25°	415.1	412.2	412.2	409.2	403.2	395.3	382.4	360.5	329.7	295.0	273.1
27.5°	459.8	459.8	457.8	457.8	451.9	443.9	430.0	406.2	371.4	329.7	303.9
30°	512.5	512.5	509.5	508.5	501.5	494.6	478.7	452.9	415.1	365.5	334.7
32.5°	564.1	564.1	561.1	560.1	552.2	545.2	528.4	500.6	457.8	400.2	366.5
35°	616.8	614.8	612.8	611.8	604.8	595.9	579.0	547.2	499.6	435.0	397.3
37.5°	667.4	667.4	665.4	662.4	656.5	645.6	625.7	591.9	541.3	469.8	426.1
40°	718.1	719.0	717.1	714.1	704.1	695.2	674.4	637.6	582.0	502.5	454.9
42.5°	771.7	768.7	765.7	762.7	752.8	741.9	720.0	681.3	620.7	534.3	481.7
45°	818.4	816.4	813.4	809.4	800.5	786.6	764.7	722.0	657.5	563.1	507.5
47.5°	862.1	861.1	856.1	851.1	843.2	828.3	804.5	760.8	692.2	591.9	530.3
50°	904.8	904.8	899.8	891.9	882.9	871.0	843.2	797.5	725.0	618.7	553.2
52.5°	944.5	943.5	936.5	927.6	919.7	906.8	879.9	832.3	755.8	643.6	573.1
55°	981.2	980.2	972.3	963.4	954.4	941.5	913.7	864.0	785.6	667.4	592.9
57.5°	1015.0	1014.0	1006.1	995.1	986.2	973.3	944.5	892.8	812.4	689.3	611.8
60°	1044.8	1043.8	1035.9	1023.9	1015.0	1002.1	974.3	920.7	838.2	710.1	628.7
62.5°	1074.6	1072.6	1063.7	1051.8	1040.8	1028.9	1001.1	947.5	863.1	730.0	644.6
65°	1100.4	1098.4	1088.5	1075.6	1065.7	1052.7	1024.9	971.3	884.9	748.8	660.4
67.5°	1123.3	1121.3	1111.3	1097.4	1087.5	1074.6	1047.8	993.2	904.8	765.7	674.4
70°	1145.1	1142.1	1132.2	1117.3	1107.4	1094.5	1067.6	1013.0	924.6	781.6	688.3
72.5°	1162.0	1160.0	1149.1	1134.2	1123.3	1112.3	1085.5	1030.9	941.5	796.5	701.2
75°	1177.9	1175.9	1165.0	1149.1	1139.2	1127.2	1101.4	1046.8	955.4	809.4	712.1
77.5°	1189.8	1187.8	1176.9	1161.0	1151.1	1139.2	1113.3	1059.7	967.3	820.3	721.0
80°	1199.7	1196.8	1185.8	1170.9	1160.0	1148.1	1123.3	1069.6	978.3	829.3	730.0
82.5°	1205.7	1203.7	1193.8	1178.9	1168.0	1155.0	1130.2	1077.6	985.2	837.2	735.9
85°	1209.7	1207.7	1197.7	1183.8	1171.9	1160.0	1135.2	1082.5	991.2	842.2	740.9
87.5°	1210.7	1209.7	1200.7	1186.8	1174.9	1162.0	1137.2	1085.5	995.1	846.2	743.9
90°	1211.7	1209.7	1200.7	1187.8	1175.9	1163.0	1138.2	1087.5	996.1	847.2	745.9
92.5°	1208.7	1207.7	1199.7	1186.8	1175.9	1161.0	1136.2	1086.5	996.1	848.2	746.9
95°	1204.7	1202.7	1196.8	1183.8	1171.9	1158.0	1132.2	1083.5	994.1	847.2	745.9
97.5°	1197.7	1196.8	1190.8	1177.9	1167.0	1152.1	1126.2	1077.6	989.2	843.2	743.9
100°	1187.8	1186.8	1180.9	1168.9	1157.0	1143.1	1117.3	1068.6	981.2	837.2	738.9
102.5°	1177.9	1175.9	1169.9	1158.0	1147.1	1133.2	1107.4	1059.7	972.3	830.3	733.9
105°	1163.0	1161.0	1156.0	1145.1	1133.2	1119.3	1093.5	1046.8	959.4	821.3	726.0
107.5°	1147.1	1145.1	1140.1	1129.2	1117.3	1104.4	1079.6	1032.9	946.5	811.4	718.1
110°	1129.2	1125.2	1121.3	1110.3	1099.4	1087.5	1062.7	1017.0	933.6	799.5	709.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1108.4	1106.4	1101.4	1091.5	1079.6	1068.6	1043.8	999.1	915.7	786.6	700.2
115°	1085.5	1083.5	1078.6	1068.6	1058.7	1047.8	1024.9	978.3	898.8	773.7	690.2
117.5°	1061.7	1059.7	1053.7	1044.8	1035.9	1025.9	1002.1	958.4	879.9	758.8	679.3
120°	1035.9	1033.9	1028.9	1021.0	1012.0	1002.1	979.3	935.6	860.1	743.9	667.4
122.5°	1008.1	1007.1	1002.1	993.2	985.2	977.3	955.4	912.7	839.2	727.0	655.5
125°	979.3	977.3	972.3	964.4	958.4	949.5	927.6	885.9	816.4	709.1	641.6
127.5°	947.5	946.5	941.5	934.6	928.6	920.7	898.8	859.1	791.5	690.2	626.7
130°	913.7	913.7	906.8	902.8	897.8	888.9	868.0	829.3	764.7	668.4	609.8
132.5°	878.9	878.0	874.0	868.0	864.0	855.1	835.2	797.5	735.9	646.5	591.9
135°	843.2	842.2	836.2	832.3	829.3	820.3	799.5	763.7	706.1	622.7	572.1
137.5°	805.4	805.4	799.5	796.5	792.5	782.6	762.7	728.0	674.4	596.9	550.2
140°	764.7	764.7	760.8	755.8	752.8	741.9	723.0	689.3	639.6	568.1	526.4
142.5°	725.0	725.0	721.0	716.1	712.1	701.2	682.3	650.5	604.8	540.3	502.5
145°	686.3	686.3	683.3	678.3	673.4	662.4	643.6	612.8	571.1	511.5	478.7
147.5°	647.5	647.5	644.6	639.6	634.6	623.7	604.8	576.0	537.3	484.7	453.9
150°	608.8	608.8	604.8	599.9	595.9	584.0	566.1	538.3	503.5	454.9	428.1
152.5°	569.1	569.1	565.1	561.1	555.2	544.2	526.4	502.5	468.8	426.1	402.2
155°	528.4	526.4	524.4	520.4	514.5	503.5	486.6	464.8	434.0	397.3	376.4
157.5°	488.6	486.6	483.7	480.7	474.7	464.8	448.9	428.1	401.2	369.5	351.6
160°	445.9	447.9	444.9	442.0	436.0	425.1	411.2	393.3	369.5	341.6	326.7
162.5°	406.2	407.2	405.2	402.2	397.3	386.3	374.4	358.5	337.7	313.8	300.9
165°	368.5	369.5	367.5	364.5	359.5	349.6	339.7	324.8	306.9	288.0	277.1
167.5°	334.7	336.7	332.7	329.7	325.8	316.8	307.9	296.0	280.1	265.2	256.2
170°	301.9	304.9	300.9	298.9	295.0	288.0	279.1	270.1	257.2	244.3	236.4
172.5°	273.1	275.1	272.1	270.1	266.2	260.2	254.2	246.3	236.4	226.4	221.5
175°	246.3	246.3	245.3	241.3	240.3	236.4	231.4	226.4	221.5	214.5	210.5
177.5°	221.5	221.5	221.5	220.5	219.5	217.5	215.5	212.5	209.6	206.6	204.6
180°	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
2.5°	86.4	80.4	75.5	70.5	65.5	62.6	57.6	56.6	55.6	54.6
5°	89.4	81.4	72.5	65.5	58.6	51.6	46.7	43.7	41.7	41.7
7.5°	104.3	95.3	84.4	74.5	66.5	58.6	52.6	47.7	44.7	43.7
10°	121.2	109.2	96.3	84.4	75.5	66.5	58.6	53.6	51.6	51.6
12.5°	140.0	125.1	109.2	94.3	83.4	72.5	64.6	60.6	58.6	58.6
15°	158.9	140.0	121.2	103.3	89.4	78.5	70.5	65.5	63.6	63.6
17.5°	178.8	155.9	132.1	111.2	95.3	82.4	73.5	67.5	64.6	64.6
20°	199.6	170.8	143.0	118.2	99.3	84.4	74.5	67.5	64.6	63.6
22.5°	223.5	187.7	154.9	126.1	104.3	87.4	75.5	68.5	64.6	64.6
25°	250.3	205.6	166.9	133.1	108.3	89.4	76.5	68.5	65.5	64.6
27.5°	278.1	224.5	178.8	141.0	112.2	92.4	78.5	70.5	66.5	66.5
30°	305.9	243.3	189.7	147.0	116.2	94.3	80.4	72.5	68.5	67.5
32.5°	332.7	262.2	199.6	152.9	120.2	97.3	82.4	74.5	70.5	70.5
35°	356.5	277.1	208.6	156.9	123.2	100.3	85.4	76.5	72.5	72.5
37.5°	381.4	292.0	215.5	160.9	125.1	102.3	87.4	79.5	75.5	75.5
40°	404.2	304.9	221.5	163.9	127.1	104.3	90.4	82.4	78.5	78.5
42.5°	426.1	316.8	226.4	166.9	130.1	107.3	93.4	85.4	82.4	82.4
45°	445.9	325.8	230.4	168.8	132.1	110.2	97.3	89.4	86.4	85.4
47.5°	463.8	334.7	233.4	170.8	134.1	112.2	100.3	93.4	89.4	89.4
50°	480.7	342.6	236.4	171.8	136.1	115.2	104.3	97.3	94.3	94.3
52.5°	496.6	349.6	238.4	173.8	138.0	118.2	107.3	101.3	98.3	98.3
55°	511.5	356.5	242.3	175.8	141.0	122.2	111.2	105.3	102.3	102.3
57.5°	525.4	362.5	245.3	177.8	143.0	126.1	116.2	110.2	107.3	107.3
60°	538.3	367.5	247.3	179.8	146.0	130.1	120.2	114.2	111.2	111.2
62.5°	551.2	373.4	249.3	182.7	150.0	134.1	125.1	119.2	116.2	116.2
65°	563.1	378.4	252.3	185.7	152.9	138.0	129.1	124.1	121.2	120.2
67.5°	573.1	382.4	255.2	188.7	156.9	142.0	134.1	129.1	125.1	125.1
70°	583.0	387.3	259.2	191.7	160.9	147.0	138.0	133.1	130.1	129.1
72.5°	592.9	392.3	262.2	194.7	164.9	151.0	143.0	137.1	134.1	134.1
75°	601.9	396.3	266.2	198.6	168.8	155.9	147.0	142.0	138.0	138.0
77.5°	608.8	400.2	269.1	201.6	172.8	158.9	151.0	146.0	142.0	142.0
80°	614.8	403.2	272.1	205.6	176.8	162.9	154.9	149.0	146.0	145.0
82.5°	620.7	406.2	274.1	208.6	179.8	166.9	157.9	152.9	149.0	148.0
85°	623.7	409.2	277.1	211.5	182.7	169.8	160.9	154.9	152.0	151.0
87.5°	626.7	411.2	279.1	213.5	185.7	171.8	163.9	157.9	153.9	152.9
90°	628.7	413.2	281.1	216.5	187.7	174.8	165.9	158.9	154.9	154.9
92.5°	629.7	414.1	283.0	217.5	189.7	175.8	166.9	159.9	155.9	155.9
95°	629.7	415.1	285.0	219.5	191.7	176.8	167.8	160.9	156.9	155.9
97.5°	628.7	416.1	286.0	221.5	192.7	176.8	167.8	160.9	156.9	155.9
100°	625.7	415.1	288.0	222.5	192.7	176.8	166.9	159.9	155.9	154.9
102.5°	622.7	416.1	290.0	224.5	193.7	176.8	165.9	158.9	154.9	153.9
105°	617.7	417.1	292.0	225.4	193.7	175.8	164.9	156.9	152.9	152.0
107.5°	612.8	417.1	294.0	226.4	193.7	174.8	162.9	154.9	151.0	150.0
110°	607.8	419.1	297.0	229.4	193.7	173.8	160.9	152.9	148.0	148.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	602.8	420.1	300.9	231.4	194.7	171.8	157.9	150.0	145.0	145.0
115°	596.9	422.1	304.9	233.4	194.7	170.8	155.9	147.0	142.0	142.0
117.5°	590.9	424.1	307.9	236.4	195.7	169.8	153.9	144.0	139.0	139.0
120°	584.0	426.1	311.9	239.4	196.6	168.8	152.0	141.0	137.1	136.1
122.5°	577.0	426.1	315.8	244.3	197.6	167.8	150.0	139.0	134.1	133.1
125°	568.1	426.1	318.8	246.3	198.6	167.8	148.0	136.1	131.1	130.1
127.5°	558.2	425.1	321.8	248.3	198.6	166.9	146.0	134.1	128.1	128.1
130°	546.2	422.1	322.8	250.3	199.6	165.9	145.0	132.1	126.1	125.1
132.5°	534.3	418.1	322.8	252.3	200.6	165.9	143.0	130.1	124.1	123.2
135°	517.4	411.2	320.8	252.3	200.6	165.9	142.0	129.1	122.2	122.2
137.5°	500.6	403.2	317.8	250.3	200.6	164.9	142.0	128.1	121.2	120.2
140°	481.7	392.3	312.8	249.3	199.6	164.9	141.0	127.1	120.2	119.2
142.5°	461.8	381.4	307.9	247.3	199.6	164.9	141.0	127.1	120.2	119.2
145°	442.0	369.5	301.9	244.3	197.6	164.9	141.0	127.1	120.2	119.2
147.5°	421.1	356.5	295.0	239.4	196.6	164.9	142.0	127.1	121.2	120.2
150°	399.2	340.7	286.0	234.4	194.7	163.9	142.0	128.1	122.2	121.2
152.5°	377.4	324.8	275.1	228.4	192.7	163.9	143.0	130.1	124.1	123.2
155°	353.6	308.9	265.2	223.5	190.7	164.9	146.0	133.1	128.1	127.1
157.5°	331.7	293.0	255.2	218.5	189.7	165.9	149.0	137.1	132.1	131.1
160°	309.9	277.1	244.3	213.5	187.7	166.9	151.0	141.0	136.1	136.1
162.5°	288.0	260.2	231.4	206.6	184.7	166.9	153.9	145.0	140.0	140.0
165°	266.2	242.3	220.5	199.6	181.7	167.8	155.9	149.0	145.0	144.0
167.5°	247.3	228.4	210.5	194.7	179.8	168.8	158.9	152.9	150.0	150.0
170°	229.4	216.5	202.6	190.7	179.8	170.8	162.9	158.9	155.9	155.9
172.5°	216.5	207.6	197.6	188.7	180.8	173.8	168.8	165.9	163.9	162.9
175°	207.6	201.6	194.7	189.7	184.7	179.8	176.8	175.8	174.8	174.8
177.5°	203.6	199.6	196.6	193.7	191.7	189.7	188.7	187.7	187.7	186.7
180°	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6

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