

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-SYM-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 (G2-1804-729-17)
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-SYM-VMx-7027-HSS-BK
Description: UTILITY LIGHT ACORN TYPE V SYMMETRIC W/ HOUSE SIDE SHIELD
Light Source: (180) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6121.6 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 2.17')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U5 - G4

Input Watts (W): 56.2
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

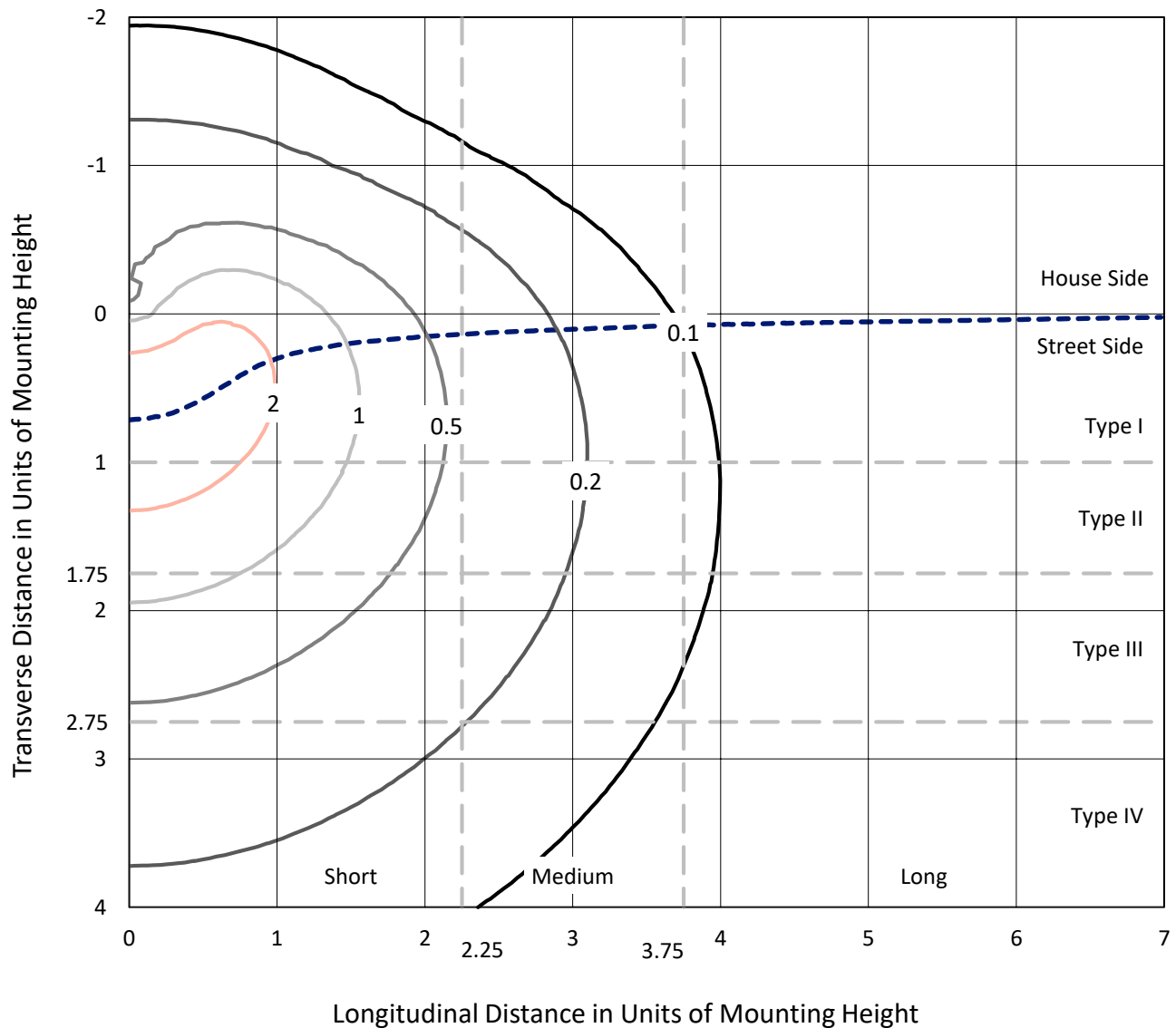


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

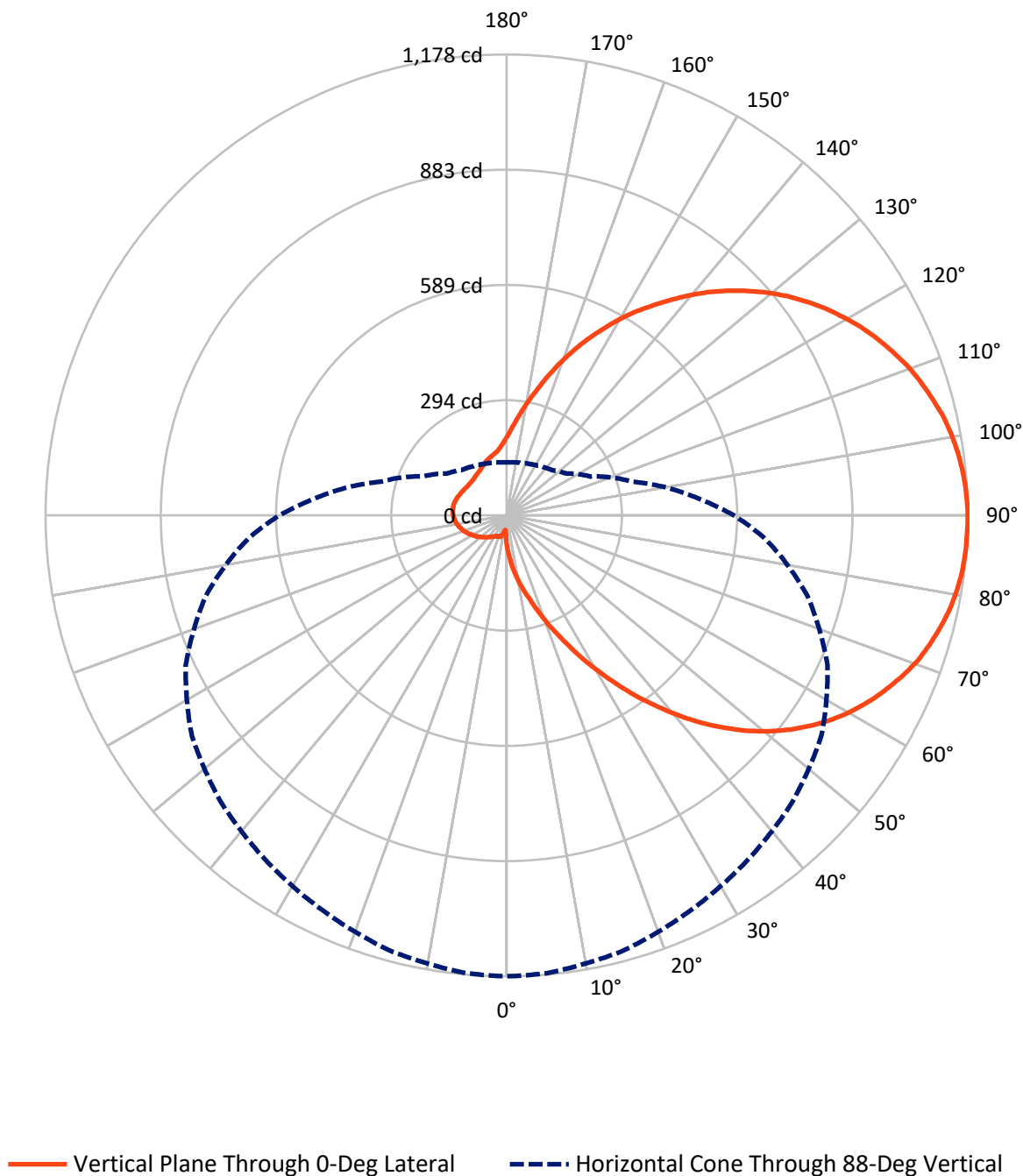


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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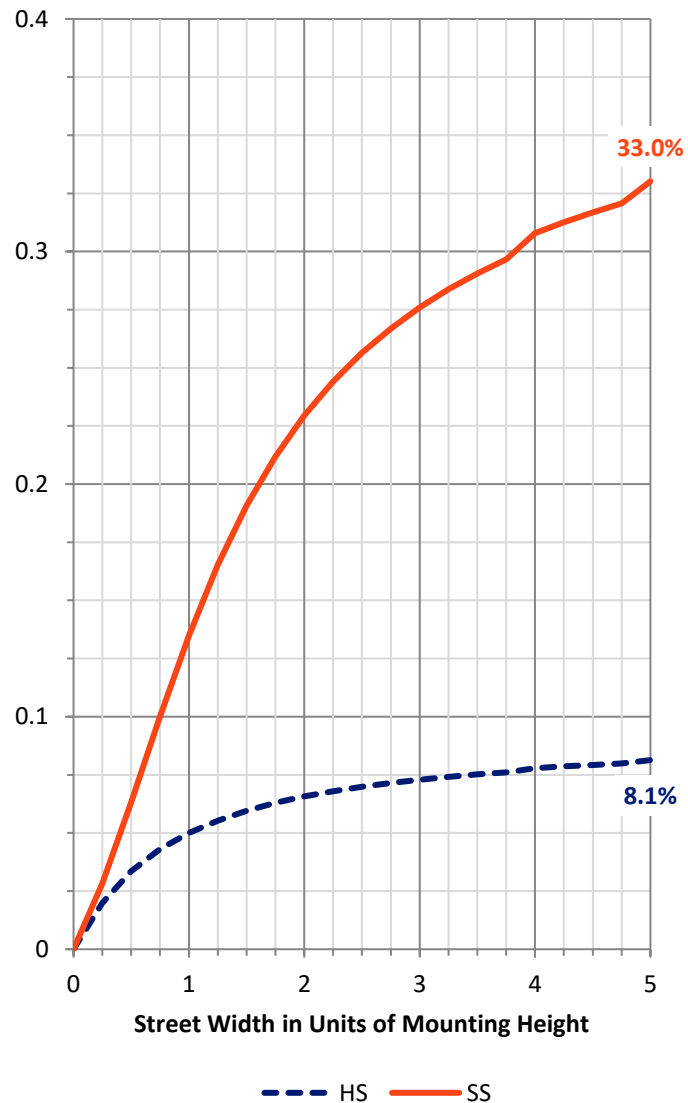
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	553.5	726.6	1280.1
	% Fixture	9.0	11.9	20.9
Street Side	Lumens	2370.3	2471.2	4841.5
	% Fixture	38.7	40.4	79.1
Total	Lumens	2923.9	3197.8	6121.6
	% Fixture	47.8	52.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.1
10°-20°	41.4	0.7
20°-30°	104.1	1.7
30°-40°	202.5	3.3
40°-50°	321.7	5.3
50°-60°	438.4	7.2
60°-70°	538.3	8.8
70°-80°	613.7	10.0
80°-90°	655.0	10.7
90°-100°	659.0	10.8
100°-110°	625.1	10.2
110°-120°	561.3	9.2
120°-130°	475.1	7.8
130°-140°	370.1	6.0
140°-150°	257.7	4.2
150°-160°	155.2	2.5
160°-170°	74.1	1.2
170°-180°	20.1	0.3
0°-90°	2923.9	47.8
0°-180°	6121.6	100.0

Coefficient of Utilization



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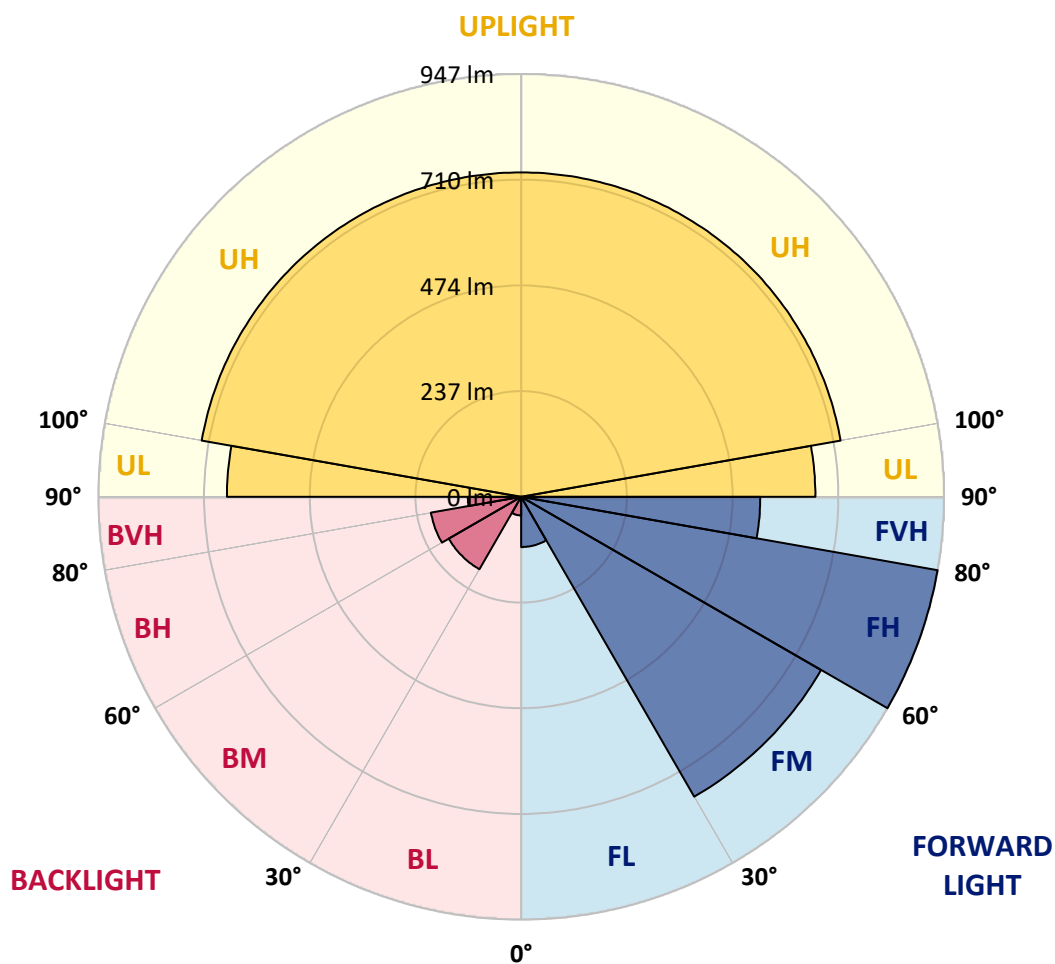
CATALOG NUMBER: ULA-A8-D-U-SYM-VMx-7027-HSS-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	112.5	1.8			
FM	(30°-60°)	775.4	12.7			
FH	(60°-80°)	947.0	15.5			G1/1800
FVH	(80°-90°)	535.4	8.7			G4/750
BL	(0°-30°)	41.6	0.7	B0/110		
BM	(30°-60°)	187.2	3.1	B0/220		
BH	(60°-80°)	205.0	3.3	B1/500		G1/500
BVH	(80°-90°)	119.6	2.0			G2/225
UL	(90°-100°)	659.0	10.8		U4/1000	
UH	(100°-180°)	726.6	11.9		U4/1000	

BUG Rating: B1-U5-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
2.5°	97.1	97.1	95.3	96.2	93.5	91.7	88.1	84.4	81.7	78.1	76.3
5°	123.5	121.7	119.8	118.0	113.5	108.9	104.4	98.0	91.7	85.3	81.7
7.5°	148.0	147.1	143.4	140.7	135.3	129.8	123.5	115.3	108.0	99.9	95.3
10°	172.5	171.6	168.0	165.2	158.9	153.4	145.3	136.2	127.1	116.2	110.8
12.5°	197.0	196.1	192.5	190.7	185.2	178.9	169.8	158.0	147.1	134.4	128.0
15°	222.4	222.4	221.5	217.9	211.5	205.2	196.1	182.5	168.9	153.4	146.2
17.5°	256.0	254.2	251.5	248.8	243.3	236.0	222.4	209.7	192.5	174.3	163.4
20°	290.5	288.7	286.9	283.3	276.0	268.7	255.1	239.7	217.9	196.1	182.5
22.5°	327.7	325.9	324.1	320.5	313.2	305.0	290.5	272.4	249.7	221.5	204.3
25°	368.6	368.6	365.9	362.2	354.1	345.9	328.6	308.7	282.3	248.8	229.7
27.5°	414.9	412.2	411.3	406.7	399.5	389.5	371.3	347.7	316.8	277.8	256.9
30°	461.2	460.3	459.4	453.9	445.8	434.9	414.0	389.5	352.3	306.9	282.3
32.5°	511.1	512.0	508.4	502.1	493.0	481.2	458.5	429.4	389.5	335.9	307.8
35°	564.7	563.8	558.3	553.8	542.0	527.5	502.1	469.4	424.0	364.1	332.3
37.5°	616.4	617.4	611.9	604.6	591.0	574.7	546.5	509.3	456.7	391.3	355.9
40°	670.0	670.9	664.6	653.7	639.1	620.1	589.2	548.4	490.2	417.6	376.8
42.5°	722.7	722.7	716.3	705.4	685.4	663.7	630.1	585.6	521.1	441.2	397.6
45°	772.6	772.6	764.4	750.8	729.0	704.5	668.2	619.2	549.3	463.0	415.8
47.5°	821.6	820.7	811.6	793.5	772.6	744.5	706.3	650.0	576.5	483.9	432.1
50°	867.0	867.0	854.3	834.3	808.0	779.9	739.0	680.0	601.9	503.0	447.6
52.5°	908.8	907.9	894.3	872.5	843.4	813.5	769.9	707.2	623.7	520.2	462.1
55°	946.9	946.0	930.6	906.1	876.1	843.4	798.0	732.7	645.5	536.6	474.8
57.5°	982.3	981.4	963.2	936.0	906.1	871.6	824.3	756.3	665.5	552.0	487.5
60°	1014.1	1012.3	994.1	964.2	932.4	897.0	849.8	779.0	683.6	565.6	499.3
62.5°	1042.2	1040.4	1020.4	989.6	956.0	919.7	869.7	798.0	700.0	579.2	509.3
65°	1067.7	1065.8	1045.9	1012.3	977.8	940.6	889.7	816.2	715.4	591.0	520.2
67.5°	1091.3	1089.4	1066.7	1032.2	997.7	959.6	908.8	833.4	729.9	602.8	530.2
70°	1113.0	1109.4	1085.8	1051.3	1014.1	975.1	925.1	848.9	743.5	613.7	539.3
72.5°	1129.4	1126.7	1103.1	1066.7	1029.5	991.4	939.6	861.6	756.3	623.7	547.4
75°	1143.9	1142.1	1117.6	1080.4	1042.2	1003.2	952.4	872.5	766.2	633.7	555.6
77.5°	1156.6	1153.0	1129.4	1092.2	1053.1	1013.2	962.3	883.4	775.3	641.0	562.0
80°	1165.7	1163.0	1138.5	1100.3	1061.3	1021.4	970.5	891.5	782.6	647.3	567.4
82.5°	1172.1	1168.4	1144.8	1106.7	1067.7	1026.8	976.0	896.1	788.0	652.8	572.9
85°	1175.7	1173.0	1148.5	1111.2	1071.3	1030.4	979.6	900.6	792.6	657.3	576.5
87.5°	1176.6	1174.8	1151.2	1113.0	1073.1	1033.2	981.4	903.3	795.3	660.0	579.2
88°	1177.5	1173.9	1151.2	1113.0	1074.0	1033.2	981.4	904.2	795.3	660.9	580.1
90°	1177.5	1173.9	1151.2	1114.0	1074.0	1032.2	982.3	905.1	796.2	661.8	581.9
92.5°	1174.8	1172.1	1149.4	1113.0	1073.1	1031.3	981.4	904.2	797.1	663.7	583.8
95°	1170.2	1167.5	1145.7	1109.4	1069.5	1028.6	978.7	902.4	796.2	663.7	583.8
97.5°	1163.0	1160.3	1139.4	1103.1	1064.0	1023.2	973.2	898.8	793.5	662.7	583.8
100°	1153.9	1151.2	1130.3	1094.9	1055.9	1015.9	966.9	894.3	789.8	660.9	582.9
102.5°	1142.1	1138.5	1118.5	1084.0	1046.8	1006.8	958.7	886.1	784.4	657.3	581.0
105°	1125.8	1123.9	1104.9	1071.3	1033.2	995.0	947.8	877.9	778.0	652.8	577.4
107.5°	1110.3	1107.6	1088.5	1055.9	1020.4	983.2	936.9	867.9	770.8	648.2	574.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	1092.2	1089.4	1070.4	1039.5	1004.1	968.7	923.3	857.0	762.6	642.8	572.0
112.5°	1070.4	1068.6	1049.5	1020.4	986.9	953.3	909.7	845.2	753.5	637.3	568.3
115°	1048.6	1045.9	1027.7	1000.5	967.8	936.0	894.3	831.6	742.6	631.0	564.7
117.5°	1025.0	1022.3	1004.1	977.8	947.8	916.9	877.0	817.1	731.7	623.7	560.2
120°	997.7	995.9	978.7	954.2	926.9	897.0	857.9	801.6	719.9	616.4	555.6
122.5°	970.5	967.8	952.4	929.7	904.2	876.1	838.9	785.3	706.3	607.4	550.2
125°	940.6	938.7	924.2	903.3	879.7	853.4	818.0	765.3	691.8	598.3	543.8
127.5°	909.7	907.0	893.3	874.3	853.4	828.0	795.3	746.3	676.4	586.5	536.6
130°	876.1	874.3	861.6	844.3	823.4	800.7	769.9	723.6	658.2	573.8	526.6
132.5°	840.7	838.9	828.0	813.5	792.6	771.7	742.6	698.2	637.3	559.2	515.7
135°	804.4	803.5	793.5	779.9	760.8	741.7	713.6	672.7	616.4	543.8	503.0
137.5°	767.2	766.2	757.2	743.5	729.0	709.0	682.7	644.6	592.8	525.7	487.5
140°	727.2	726.3	719.0	706.3	690.9	674.5	649.1	614.6	566.5	504.8	471.2
142.5°	687.3	686.3	680.0	670.9	656.4	639.1	615.5	582.9	540.2	483.9	453.0
145°	648.2	647.3	641.9	632.8	619.2	603.7	581.0	552.9	512.9	462.1	434.9
147.5°	611.0	609.2	604.6	597.4	584.7	569.2	548.4	522.0	485.7	440.3	415.8
150°	571.1	570.1	564.7	559.2	546.5	533.8	513.9	491.2	457.6	416.7	394.9
152.5°	531.1	530.2	526.6	520.2	509.3	497.5	479.4	458.5	429.4	393.1	374.0
155°	492.1	491.2	487.5	483.0	472.1	461.2	444.9	425.8	399.5	368.6	351.3
157.5°	453.0	453.0	451.2	445.8	435.8	425.8	409.4	394.9	371.3	344.1	330.5
160°	414.9	414.9	414.0	408.5	400.4	391.3	376.8	362.2	344.1	320.5	308.7
162.5°	377.7	375.9	376.8	373.1	365.0	357.7	345.0	333.2	315.9	296.0	286.0
165°	342.3	341.4	342.3	338.6	331.4	325.0	313.2	304.1	289.6	272.4	265.1
167.5°	310.5	310.5	309.6	306.9	300.5	295.1	286.0	277.8	266.0	252.4	246.0
170°	282.3	280.5	281.4	278.7	274.2	269.6	261.5	254.2	245.1	234.2	229.7
172.5°	256.0	254.2	255.1	252.4	249.7	246.0	240.6	234.2	227.0	217.0	214.3
175°	232.4	231.5	231.5	229.7	227.9	225.2	219.7	216.1	211.5	206.1	204.3
177.5°	211.5	209.7	210.6	209.7	208.8	207.9	206.1	204.3	201.5	198.8	197.9
180°	196.1	196.1	196.1	196.1	196.1	196.1	196.1	196.1	196.1	196.1	196.1



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
2.5°	74.4	70.8	66.3	61.7	57.2	53.6	51.7	49.0	49.0	47.2
5°	78.1	70.8	63.6	57.2	50.8	45.4	40.9	38.1	37.2	37.2
7.5°	90.8	82.6	73.5	65.4	58.1	51.7	46.3	41.8	39.9	39.0
10°	105.3	95.3	83.5	74.4	66.3	58.1	51.7	47.2	45.4	45.4
12.5°	120.7	108.0	94.4	82.6	71.7	63.6	57.2	53.6	51.7	50.8
15°	137.1	120.7	104.4	89.9	78.1	68.1	61.7	58.1	56.3	55.4
17.5°	153.4	133.5	114.4	97.1	82.6	72.6	64.5	59.0	57.2	57.2
20°	170.7	146.2	123.5	103.5	87.2	74.4	65.4	59.9	57.2	57.2
22.5°	190.7	160.7	132.5	109.9	90.8	77.2	67.2	60.8	57.2	57.2
25°	211.5	176.1	143.4	116.2	95.3	79.9	69.0	61.7	59.0	58.1
27.5°	235.1	191.6	154.3	122.6	99.9	82.6	70.8	63.6	59.9	59.9
30°	257.8	206.1	163.4	128.9	103.5	85.3	72.6	65.4	61.7	61.7
32.5°	279.6	220.6	171.6	134.4	107.1	88.1	75.4	67.2	64.5	63.6
35°	299.6	234.2	178.9	138.0	109.9	90.8	78.1	69.9	66.3	66.3
37.5°	318.7	246.0	185.2	141.6	112.6	92.6	80.8	72.6	69.0	69.0
40°	335.9	256.0	189.7	144.4	114.4	95.3	83.5	75.4	72.6	71.7
42.5°	352.3	264.2	193.4	146.2	116.2	98.0	86.2	79.0	75.4	75.4
45°	365.9	271.5	197.0	148.0	118.0	99.9	89.0	81.7	79.0	78.1
47.5°	378.6	277.8	198.8	149.8	119.8	102.6	91.7	85.3	82.6	81.7
50°	390.4	282.3	200.6	150.7	121.7	105.3	94.4	89.0	86.2	85.3
52.5°	401.3	286.9	201.5	151.6	123.5	107.1	98.0	91.7	89.0	89.0
55°	410.4	291.4	203.4	153.4	125.3	110.8	100.8	96.2	93.5	92.6
57.5°	420.3	295.1	205.2	154.3	128.0	113.5	104.4	99.9	97.1	96.2
60°	428.5	298.7	207.0	156.2	129.8	116.2	108.0	103.5	100.8	99.9
62.5°	436.7	301.4	207.9	158.0	132.5	119.8	111.7	107.1	104.4	103.5
65°	443.9	305.0	210.6	160.7	135.3	122.6	115.3	110.8	108.0	108.0
67.5°	451.2	308.7	212.4	162.5	138.9	126.2	118.9	114.4	111.7	111.7
70°	458.5	311.4	214.3	165.2	141.6	129.8	122.6	118.0	115.3	115.3
72.5°	464.8	315.0	217.0	168.9	145.3	133.5	126.2	121.7	118.9	118.9
75°	470.3	317.8	219.7	171.6	148.0	137.1	129.8	125.3	122.6	121.7
77.5°	476.6	321.4	223.3	174.3	151.6	140.7	133.5	128.9	125.3	125.3
80°	481.2	323.2	226.1	177.0	155.2	143.4	136.2	131.6	128.9	128.0
82.5°	485.7	326.8	228.8	179.8	158.0	146.2	138.9	134.4	131.6	130.7
85°	488.4	328.6	230.6	182.5	160.7	148.9	141.6	136.2	133.5	132.5
87.5°	491.2	331.4	233.3	185.2	163.4	151.6	144.4	138.9	135.3	134.4
88°	492.1	332.3	235.1	186.1	163.4	152.5	144.4	138.9	136.2	135.3
90°	493.9	334.1	237.0	187.9	165.2	153.4	146.2	139.8	137.1	136.2
92.5°	494.8	335.9	238.8	189.7	168.0	155.2	147.1	141.6	138.0	137.1
95°	496.6	337.7	241.5	192.5	169.8	157.1	148.0	142.5	138.9	138.0
97.5°	496.6	339.5	244.2	194.3	170.7	158.0	148.9	142.5	138.9	138.0
100°	496.6	341.4	246.9	196.1	172.5	158.0	148.9	142.5	138.9	138.0
102.5°	495.7	344.1	249.7	198.8	173.4	158.9	148.9	141.6	138.0	138.0
105°	494.8	345.9	252.4	201.5	175.2	158.9	148.0	140.7	137.1	137.1
107.5°	494.8	349.5	256.9	204.3	176.1	158.9	147.1	139.8	136.2	135.3



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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	493.9	353.2	262.4	208.8	178.9	159.8	147.1	138.9	134.4	134.4
112.5°	493.0	357.7	266.9	212.4	180.7	159.8	146.2	137.1	133.5	132.5
115°	493.9	362.2	273.3	217.0	183.4	160.7	145.3	136.2	131.6	130.7
117.5°	492.1	366.8	279.6	222.4	186.1	161.6	145.3	135.3	129.8	129.8
120°	491.2	371.3	286.0	229.7	189.7	162.5	144.4	133.5	128.9	128.0
122.5°	489.3	375.9	292.3	235.1	193.4	164.3	144.4	132.5	127.1	127.1
125°	486.6	378.6	296.9	239.7	196.1	165.2	144.4	132.5	126.2	125.3
127.5°	482.1	380.4	302.3	244.2	198.8	167.0	144.4	131.6	125.3	124.4
130°	476.6	381.3	305.0	247.8	201.5	168.0	145.3	131.6	125.3	124.4
132.5°	468.5	380.4	306.9	250.6	204.3	169.8	146.2	131.6	125.3	124.4
135°	460.3	377.7	307.8	252.4	206.1	171.6	147.1	131.6	125.3	124.4
137.5°	448.5	373.1	307.8	253.3	207.0	172.5	148.0	132.5	126.2	125.3
140°	435.8	365.9	304.1	253.3	207.9	174.3	149.8	134.4	127.1	126.2
142.5°	421.3	358.6	301.4	251.5	207.9	175.2	150.7	135.3	128.0	128.0
145°	405.8	349.5	296.0	250.6	207.9	176.1	152.5	137.1	129.8	129.8
147.5°	390.4	339.5	290.5	247.8	207.9	177.0	154.3	139.8	132.5	131.6
150°	373.1	326.8	282.3	242.4	206.1	177.0	155.2	141.6	134.4	133.5
152.5°	354.1	313.2	274.2	237.9	203.4	177.0	157.1	143.4	137.1	137.1
155°	335.0	298.7	264.2	231.5	201.5	177.9	159.8	147.1	140.7	140.7
157.5°	315.0	285.1	254.2	225.2	198.8	177.9	161.6	150.7	145.3	144.4
160°	296.0	270.5	244.2	217.9	196.1	177.9	163.4	153.4	148.9	148.0
162.5°	276.0	254.2	232.4	210.6	191.6	176.1	164.3	156.2	151.6	151.6
165°	256.0	238.8	218.8	202.5	187.0	175.2	165.2	158.0	154.3	154.3
167.5°	239.7	224.2	208.8	195.2	184.3	174.3	166.1	160.7	158.0	158.0
170°	223.3	211.5	200.6	190.7	181.6	173.4	168.0	164.3	161.6	161.6
172.5°	210.6	202.5	194.3	187.0	180.7	175.2	170.7	168.0	166.1	166.1
175°	201.5	196.1	191.6	186.1	182.5	178.9	176.1	174.3	173.4	174.3
177.5°	197.0	194.3	191.6	188.8	187.9	186.1	184.3	183.4	183.4	184.3
180°	196.1	196.1	196.1	196.1	196.1	196.1	196.1	196.1	196.1	196.1

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