

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-A9-D-U-ASYM-VMx-7027-BK-PDR**

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 (G2-1804-729-11)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ULA-A9-D-U-ASYM-VMx-7027-BK-PDR
Description: UTILITY LIGHT ACORN TYPE IV ASYMMETRIC
Light Source: (120) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8311.1 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 2.17')
IES Classification: Type - Short - Non-Cutoff
BUG Rating: B2 - U5 - G4

Input Watts (W): 71.9
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



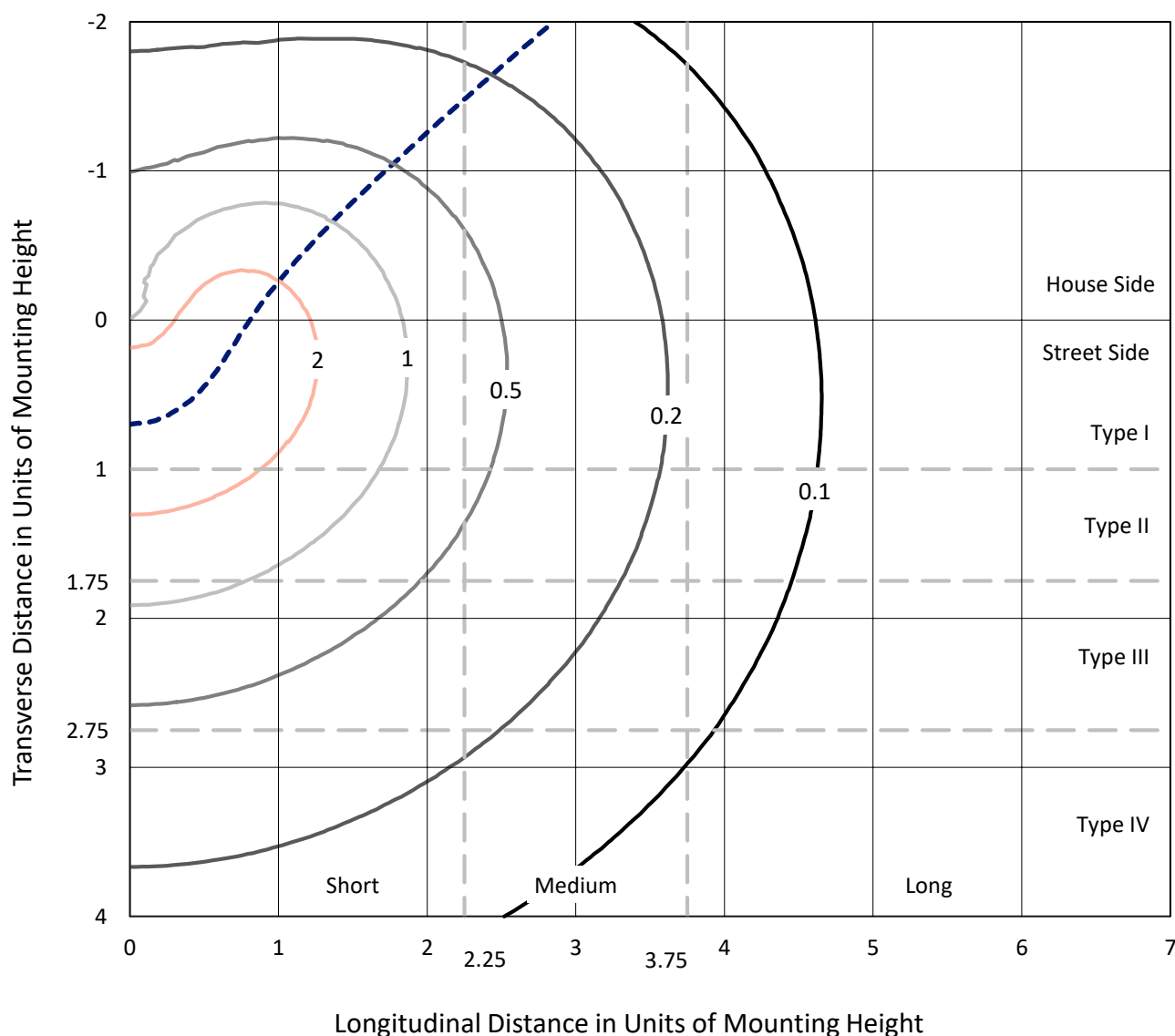
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

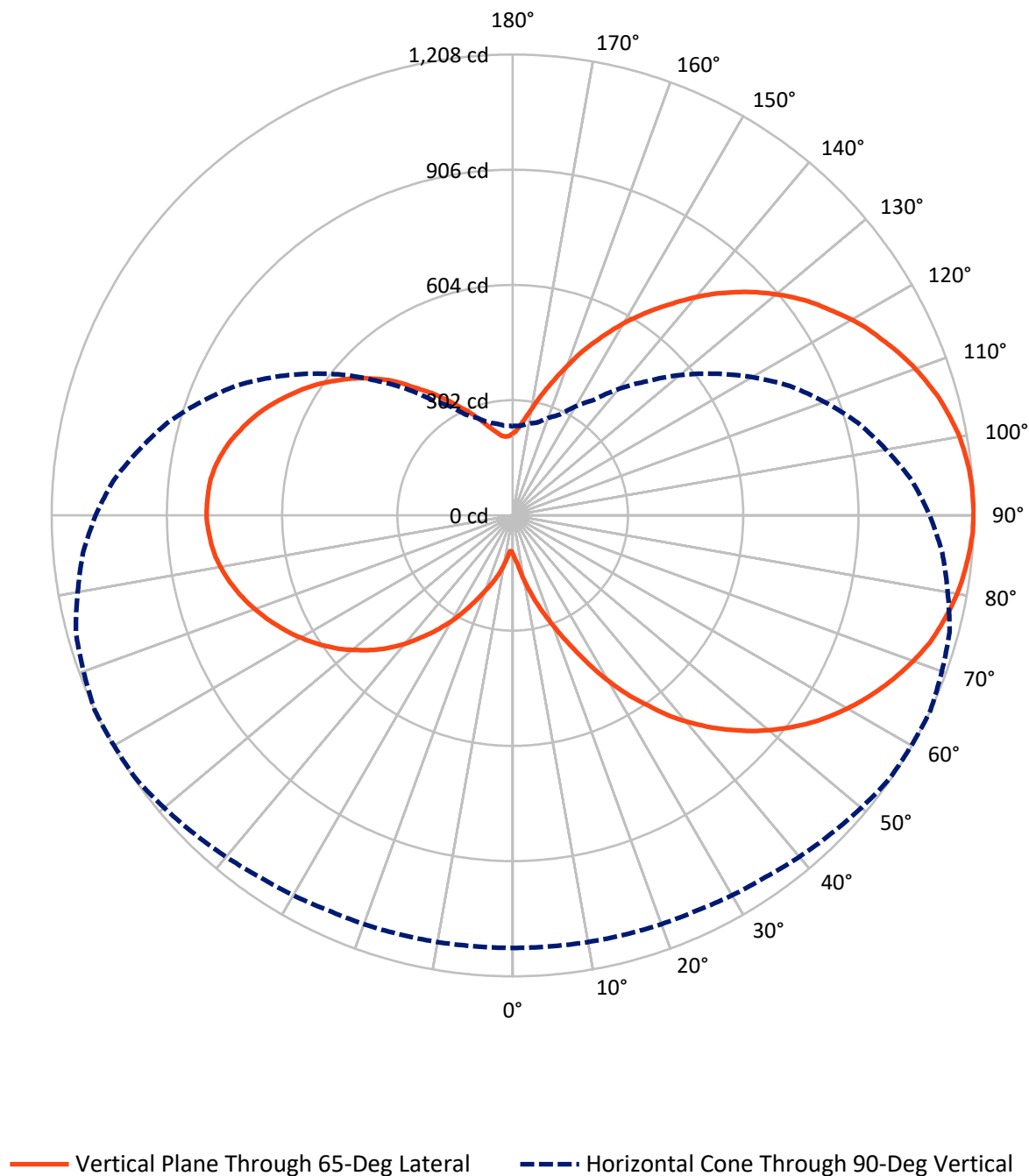


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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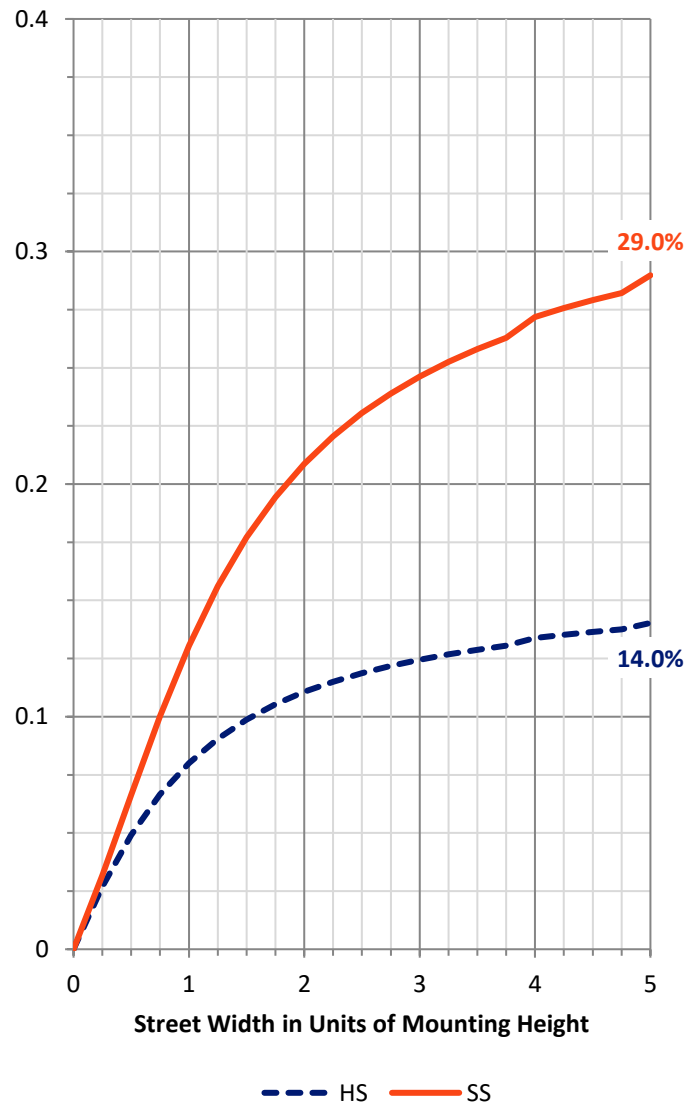
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1303.7	1369.3	2673.1
	% Fixture	15.7	16.5	32.2
Street Side	Lumens	2787.4	2850.7	5638.1
	% Fixture	33.5	34.3	67.8
Total	Lumens	4091.1	4220.0	8311.1
	% Fixture	49.2	50.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.8	0.1
10°-20°	56.6	0.7
20°-30°	142.6	1.7
30°-40°	278.0	3.3
40°-50°	440.9	5.3
50°-60°	605.1	7.3
60°-70°	752.6	9.1
70°-80°	869.0	10.5
80°-90°	934.5	11.2
90°-100°	938.0	11.3
100°-110°	875.0	10.5
110°-120°	759.2	9.1
120°-130°	614.1	7.4
130°-140°	455.1	5.5
140°-150°	301.3	3.6
150°-160°	174.4	2.1
160°-170°	81.0	1.0
170°-180°	21.8	0.3
0°-90°	4091.1	49.2
0°-180°	8311.1	100.0

Coefficient of Utilization



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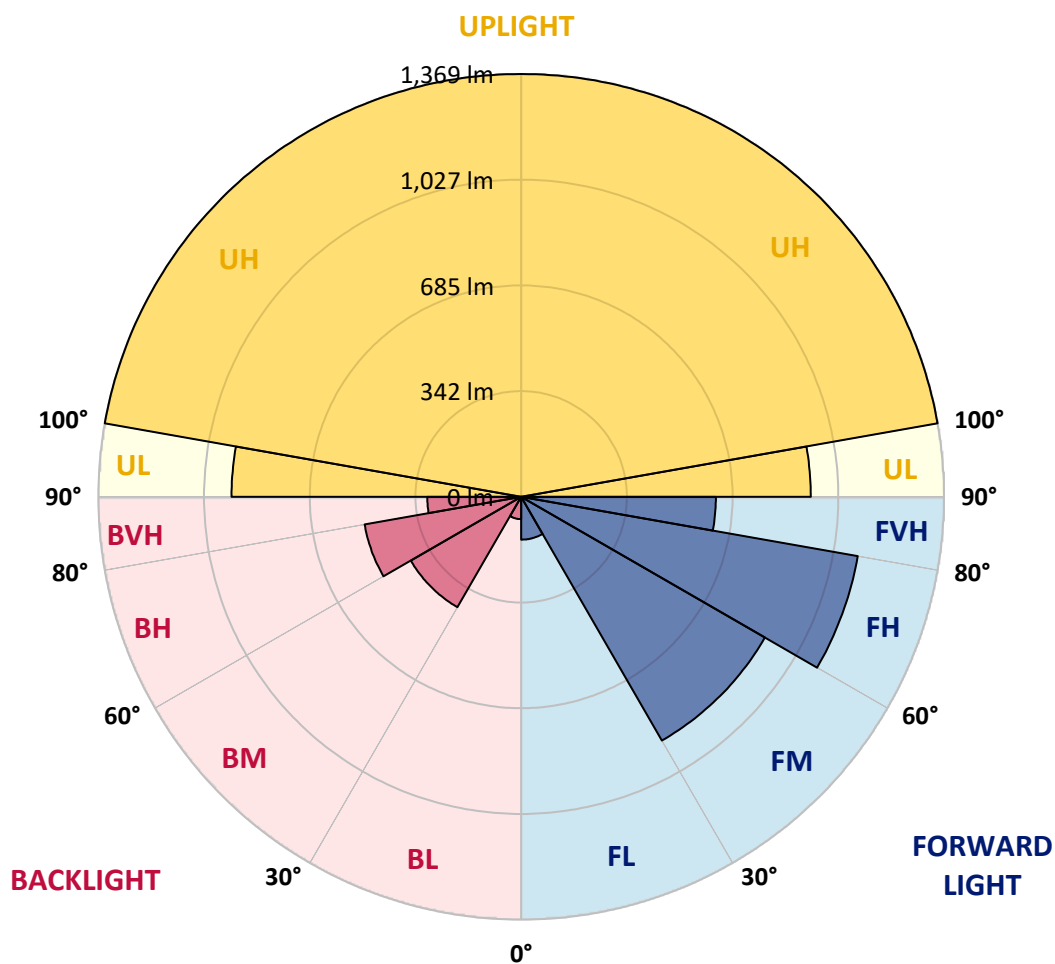
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	138.7	1.7			
FM	(30°-60°)	911.4	11.0			
FH	(60°-80°)	1106.7	13.3			G1/1800
FVH	(80°-90°)	630.4	7.6			G4/750
BL	(0°-30°)	72.2	0.9	B0/110		
BM	(30°-60°)	412.6	5.0	B1/1000		
BH	(60°-80°)	514.8	6.2	B2/1000		G2/1000
BVH	(80°-90°)	304.1	3.7			G3/500
UL	(90°-100°)	938.0	11.3		U4/1000	
UH	(100°-180°)	1369.3	16.5		U5	

BUG Rating: B2-U5-G4

Type Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1
2.5°	124.1	120.6	120.6	118.8	118.8	117.0	115.3	113.5	109.9	106.4	104.6
5°	148.9	147.2	147.2	143.6	140.1	136.5	131.2	125.9	120.6	113.5	111.7
7.5°	177.3	175.5	175.5	170.2	166.7	161.4	156.0	148.9	141.9	134.8	131.2
10°	205.7	203.9	203.9	200.4	196.8	189.7	182.6	177.3	166.7	157.8	154.3
12.5°	235.8	232.3	232.3	228.7	227.0	221.6	214.6	207.5	195.0	184.4	179.1
15°	264.2	262.4	262.4	260.7	258.9	253.6	246.5	239.4	227.0	214.6	207.5
17.5°	296.1	294.3	292.6	292.6	292.6	287.3	281.9	274.8	260.7	244.7	237.6
20°	331.6	328.0	328.0	329.8	329.8	326.3	320.9	312.1	297.9	280.2	269.5
22.5°	368.8	367.0	368.8	368.8	370.6	368.8	363.5	354.6	340.4	319.2	306.8
25°	409.6	407.8	411.4	413.1	416.7	418.5	413.1	402.5	386.6	361.7	347.5
27.5°	459.3	457.5	459.3	466.3	468.1	469.9	466.3	457.5	438.0	409.6	391.9
30°	503.6	503.6	507.1	512.4	517.8	521.3	517.8	510.7	489.4	457.5	438.0
32.5°	549.7	551.5	553.2	560.3	567.4	572.7	569.2	563.9	539.0	508.9	484.1
35°	599.3	601.1	601.1	610.0	618.8	622.4	624.2	611.7	592.2	555.0	528.4
37.5°	649.0	647.2	649.0	657.8	666.7	672.0	673.8	666.7	641.9	601.1	574.5
40°	691.5	691.5	695.1	703.9	712.8	719.9	721.7	712.8	689.8	645.4	617.1
42.5°	735.9	735.9	739.4	746.5	757.1	764.2	767.8	758.9	732.3	689.8	657.8
45°	776.6	776.6	780.2	789.1	799.7	806.8	812.1	801.5	774.9	730.5	700.4
47.5°	815.7	817.4	819.2	826.3	838.7	845.8	852.9	844.0	815.7	766.0	735.9
50°	852.9	854.7	856.4	865.3	874.2	883.0	891.9	883.0	856.4	805.0	771.3
52.5°	886.6	888.4	891.9	895.4	907.9	918.5	927.4	920.3	890.1	838.7	803.2
55°	922.0	922.0	923.8	927.4	939.8	952.2	962.8	955.7	925.6	872.4	836.9
57.5°	952.2	952.2	954.0	957.5	968.1	980.6	993.0	987.7	957.5	902.5	867.1
60°	978.8	978.8	980.6	984.1	994.7	1010.7	1023.1	1017.8	987.7	930.9	895.4
62.5°	1005.4	1005.4	1007.2	1010.7	1021.3	1037.3	1051.5	1046.2	1016.0	959.3	922.0
65°	1028.4	1028.4	1028.4	1032.0	1044.4	1062.1	1076.3	1072.8	1040.8	985.9	946.9
67.5°	1049.7	1049.7	1049.7	1051.5	1065.7	1083.4	1101.1	1097.6	1067.4	1010.7	969.9
70°	1071.0	1067.4	1071.0	1071.0	1085.2	1104.7	1122.4	1120.6	1090.5	1033.8	993.0
72.5°	1087.0	1085.2	1087.0	1090.5	1102.9	1122.4	1141.9	1141.9	1111.8	1053.3	1014.3
75°	1099.4	1099.4	1099.4	1102.9	1117.1	1138.4	1157.9	1157.9	1129.5	1071.0	1032.0
77.5°	1111.8	1111.8	1113.5	1115.3	1129.5	1150.8	1173.8	1172.1	1145.5	1087.0	1049.7
80°	1120.6	1118.9	1120.6	1126.0	1138.4	1161.4	1184.5	1184.5	1157.9	1101.1	1062.1
82.5°	1127.7	1126.0	1127.7	1133.1	1145.5	1170.3	1193.3	1193.3	1168.5	1113.5	1074.5
85°	1131.3	1131.3	1133.1	1138.4	1150.8	1175.6	1198.7	1200.4	1177.4	1122.4	1083.4
87.5°	1133.1	1133.1	1134.8	1141.9	1154.3	1177.4	1202.2	1205.8	1182.7	1126.0	1088.7
90°	1133.1	1133.1	1136.6	1141.9	1156.1	1179.2	1204.0	1207.5	1184.5	1129.5	1092.3
92.5°	1133.1	1131.3	1136.6	1141.9	1154.3	1177.4	1202.2	1205.8	1184.5	1129.5	1092.3
95°	1129.5	1127.7	1133.1	1138.4	1150.8	1173.8	1196.9	1202.2	1180.9	1127.7	1088.7
97.5°	1122.4	1122.4	1126.0	1133.1	1145.5	1166.7	1191.6	1195.1	1173.8	1120.6	1083.4
100°	1115.3	1115.3	1118.9	1124.2	1136.6	1159.7	1180.9	1186.2	1161.4	1111.8	1072.8
102.5°	1106.5	1106.5	1108.2	1113.5	1127.7	1149.0	1168.5	1172.1	1150.8	1097.6	1060.4
105°	1094.0	1092.3	1095.8	1101.1	1113.5	1134.8	1154.3	1157.9	1133.1	1081.6	1044.4
107.5°	1078.1	1078.1	1078.1	1085.2	1097.6	1118.9	1136.6	1138.4	1113.5	1062.1	1023.1
110°	1062.1	1062.1	1062.1	1067.4	1081.6	1101.1	1118.9	1118.9	1092.3	1040.8	1005.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1044.4	1042.6	1042.6	1047.9	1062.1	1081.6	1099.4	1095.8	1069.2	1017.8	982.3
115°	1023.1	1023.1	1021.3	1026.7	1042.6	1060.4	1076.3	1071.0	1046.2	993.0	957.5
117.5°	1001.8	1000.1	1000.1	1005.4	1019.6	1039.1	1053.3	1047.9	1019.6	968.1	932.7
120°	978.8	977.0	975.2	980.6	996.5	1014.3	1026.7	1019.6	989.4	939.8	906.1
122.5°	952.2	950.4	950.4	955.7	971.7	989.4	1000.1	989.4	962.8	911.4	877.7
125°	923.8	925.6	923.8	929.1	943.3	962.8	971.7	961.1	932.7	881.3	847.6
127.5°	895.4	895.4	893.7	900.8	915.0	932.7	941.6	929.1	900.8	849.3	817.4
130°	865.3	865.3	863.5	870.6	884.8	900.8	906.1	893.7	865.3	815.7	783.7
132.5°	831.6	833.4	833.4	840.5	852.9	865.3	872.4	858.2	829.8	782.0	750.0
135°	799.7	797.9	799.7	805.0	819.2	829.8	831.6	819.2	792.6	744.7	714.6
137.5°	762.5	764.2	764.2	769.6	782.0	792.6	794.4	780.2	753.6	707.5	677.3
140°	727.0	727.0	730.5	734.1	743.0	751.8	751.8	737.6	712.8	666.7	638.3
142.5°	689.8	689.8	691.5	698.6	705.7	711.0	709.3	695.1	670.3	625.9	601.1
145°	654.3	654.3	656.1	661.4	666.7	670.3	666.7	654.3	629.5	585.1	562.1
147.5°	620.6	618.8	622.4	625.9	629.5	631.2	627.7	613.5	586.9	549.7	524.9
150°	585.1	585.1	585.1	590.5	592.2	592.2	586.9	572.7	547.9	510.7	489.4
152.5°	549.7	547.9	549.7	551.5	553.2	551.5	544.4	530.2	507.1	473.4	453.9
155°	512.4	512.4	514.2	514.2	514.2	512.4	505.4	489.4	468.1	438.0	414.9
157.5°	477.0	477.0	477.0	477.0	477.0	473.4	464.6	450.4	425.6	399.0	384.8
160°	441.5	441.5	439.7	438.0	436.2	429.1	422.0	407.8	390.1	367.0	354.6
162.5°	402.5	400.7	400.7	399.0	397.2	391.9	383.0	370.6	354.6	335.1	324.5
165°	367.0	365.3	363.5	363.5	360.0	354.6	347.5	336.9	322.7	305.0	296.1
167.5°	335.1	333.4	331.6	331.6	328.0	320.9	313.9	305.0	292.6	278.4	271.3
170°	306.8	305.0	303.2	301.4	297.9	292.6	285.5	276.6	267.7	257.1	250.0
172.5°	278.4	276.6	274.8	274.8	271.3	266.0	260.7	253.6	246.5	237.6	234.1
175°	251.8	253.6	251.8	250.0	248.2	242.9	239.4	234.1	230.5	225.2	221.6
177.5°	230.5	232.3	232.3	230.5	228.7	225.2	223.4	219.9	218.1	214.6	212.8
180°	212.8	212.8	212.8	212.8	212.8	212.8	212.8	212.8	212.8	212.8	212.8



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1
2.5°	102.8	97.5	94.0	88.7	83.3	79.8	76.2	72.7	70.9	70.9
5°	106.4	101.1	94.0	86.9	81.6	74.5	70.9	67.4	65.6	65.6
7.5°	125.9	118.8	109.9	101.1	94.0	85.1	79.8	76.2	74.5	74.5
10°	147.2	138.3	127.7	117.0	108.2	99.3	92.2	86.9	85.1	85.1
12.5°	172.0	159.6	147.2	133.0	122.3	109.9	102.8	97.5	95.8	94.0
15°	198.6	182.6	166.7	148.9	134.8	122.3	111.7	104.6	102.8	102.8
17.5°	227.0	205.7	186.2	164.9	147.2	129.4	118.8	109.9	106.4	106.4
20°	257.1	232.3	205.7	180.9	157.8	138.3	122.3	113.5	108.2	108.2
22.5°	292.6	262.4	228.7	198.6	172.0	147.2	127.7	115.3	109.9	108.2
25°	329.8	292.6	255.3	219.9	186.2	156.0	134.8	120.6	111.7	111.7
27.5°	370.6	328.0	283.7	241.2	200.4	166.7	140.1	124.1	115.3	113.5
30°	414.9	365.3	313.9	262.4	216.3	177.3	147.2	127.7	118.8	117.0
32.5°	457.5	400.7	342.2	285.5	232.3	186.2	154.3	133.0	122.3	120.6
35°	503.6	439.7	372.4	308.5	248.2	196.8	159.6	136.5	125.9	124.1
37.5°	546.1	477.0	400.7	329.8	264.2	207.5	166.7	141.9	129.4	127.7
40°	586.9	514.2	432.7	352.9	280.2	218.1	173.8	147.2	133.0	131.2
42.5°	625.9	549.7	462.8	374.1	294.3	228.7	180.9	152.5	138.3	136.5
45°	664.9	581.6	491.2	395.4	310.3	237.6	188.0	156.0	143.6	140.1
47.5°	700.4	613.5	517.8	416.7	324.5	248.2	193.3	161.4	147.2	145.4
50°	734.1	645.4	542.6	438.0	338.7	257.1	200.4	166.7	152.5	150.7
52.5°	766.0	673.8	569.2	459.3	351.1	266.0	207.5	172.0	157.8	156.0
55°	796.2	702.2	592.2	477.0	365.3	274.8	212.8	179.1	163.1	161.4
57.5°	828.1	728.8	615.3	496.5	377.7	283.7	219.9	184.4	168.5	166.7
60°	852.9	753.6	636.6	512.4	390.1	292.6	227.0	189.7	173.8	172.0
62.5°	881.3	776.6	657.8	530.2	402.5	301.4	234.1	196.8	180.9	179.1
65°	904.3	799.7	677.3	546.1	413.1	308.5	239.4	202.1	186.2	184.4
67.5°	929.1	822.7	696.9	562.1	425.6	317.4	246.5	209.2	193.3	191.5
70°	950.4	842.3	714.6	576.3	438.0	326.3	253.6	214.6	200.4	196.8
72.5°	969.9	863.5	732.3	590.5	452.2	333.4	260.7	221.6	205.7	203.9
75°	987.7	879.5	748.3	602.9	461.0	340.4	266.0	227.0	212.8	209.2
77.5°	1005.4	895.4	762.5	615.3	469.9	349.3	273.1	234.1	218.1	216.3
80°	1019.6	907.9	774.9	624.2	477.0	354.6	278.4	239.4	223.4	221.6
82.5°	1030.2	918.5	785.5	633.0	484.1	360.0	281.9	242.9	227.0	225.2
85°	1039.1	927.4	792.6	640.1	491.2	363.5	287.3	246.5	230.5	228.7
87.5°	1046.2	932.7	797.9	645.4	492.9	367.0	289.0	250.0	234.1	232.3
90°	1049.7	936.2	801.5	647.2	496.5	368.8	290.8	251.8	235.8	234.1
92.5°	1047.9	936.2	801.5	649.0	498.3	370.6	292.6	251.8	235.8	234.1
95°	1046.2	934.5	799.7	647.2	496.5	370.6	292.6	251.8	235.8	234.1
97.5°	1039.1	929.1	796.2	643.7	494.7	368.8	289.0	250.0	234.1	232.3
100°	1030.2	918.5	789.1	638.3	491.2	365.3	287.3	246.5	230.5	228.7
102.5°	1016.0	907.9	778.4	631.2	484.1	360.0	281.9	242.9	227.0	225.2
105°	1000.1	893.7	766.0	620.6	477.0	354.6	276.6	237.6	221.6	219.9
107.5°	984.1	874.2	750.0	608.2	468.1	347.5	271.3	232.3	216.3	214.6
110°	962.8	856.4	734.1	595.8	457.5	338.7	264.2	225.2	211.0	207.5



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CATALOG NUMBER: ULA-A9-D-U-ASYM-VMx-7027-BK-PDR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	939.8	836.9	716.4	579.8	446.8	331.6	258.9	219.9	203.9	202.1
115°	916.7	813.9	696.9	565.6	430.9	322.7	251.8	214.6	198.6	196.8
117.5°	891.9	790.8	675.6	547.9	418.5	313.9	244.7	207.5	191.5	189.7
120°	865.3	767.8	654.3	530.2	406.1	305.0	237.6	202.1	186.2	184.4
122.5°	838.7	743.0	633.0	514.2	393.6	296.1	232.3	195.0	180.9	177.3
125°	810.3	716.4	610.0	494.7	381.2	289.0	225.2	189.7	175.5	173.8
127.5°	780.2	688.0	585.1	475.2	367.0	280.2	219.9	186.2	170.2	168.5
130°	748.3	661.4	562.1	457.5	354.6	271.3	214.6	180.9	164.9	163.1
132.5°	714.6	631.2	537.3	434.4	340.4	262.4	207.5	175.5	161.4	159.6
135°	679.1	601.1	510.7	413.1	326.3	253.6	202.1	172.0	157.8	156.0
137.5°	645.4	569.2	485.8	393.6	313.9	246.5	198.6	168.5	156.0	154.3
140°	606.4	535.5	457.5	374.1	299.7	237.6	193.3	164.9	152.5	150.7
142.5°	569.2	503.6	427.3	354.6	287.3	230.5	189.7	163.1	150.7	148.9
145°	533.7	471.7	402.5	336.9	274.8	223.4	184.4	161.4	150.7	148.9
147.5°	500.0	443.3	379.5	319.2	262.4	216.3	180.9	159.6	148.9	147.2
150°	466.3	409.6	354.6	301.4	251.8	209.2	179.1	157.8	148.9	147.2
152.5°	427.3	381.2	333.4	285.5	241.2	203.9	175.5	157.8	148.9	148.9
155°	397.2	354.6	312.1	269.5	232.3	200.4	175.5	159.6	150.7	150.7
157.5°	367.0	331.6	294.3	257.1	225.2	196.8	175.5	161.4	154.3	154.3
160°	338.7	308.5	276.6	246.5	218.1	195.0	175.5	163.1	157.8	156.0
162.5°	312.1	285.5	258.9	234.1	211.0	191.5	175.5	164.9	159.6	159.6
165°	285.5	264.2	242.9	223.4	205.7	188.0	175.5	168.5	163.1	163.1
167.5°	262.4	246.5	230.5	214.6	200.4	188.0	177.3	170.2	168.5	166.7
170°	244.7	232.3	219.9	207.5	196.8	186.2	179.1	175.5	172.0	172.0
172.5°	228.7	219.9	211.0	202.1	195.0	188.0	184.4	180.9	179.1	179.1
175°	218.1	212.8	207.5	202.1	198.6	193.3	191.5	189.7	188.0	188.0
177.5°	212.8	209.2	207.5	205.7	203.9	202.1	202.1	200.4	200.4	200.4
180°	212.8	212.8	212.8	212.8	212.8	212.8	212.8	212.8	212.8	212.8

(END OF REPORT)