

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-7030-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-7030-HSS-BK
Description: UTILITY LIGHT ACORN TYPE IV ASYMMETRIC W/ HOUSE SIDE SHIELD
Light Source: (120) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7219.3 lumens
Efficiency: N/A
Efficacy: 126.0 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

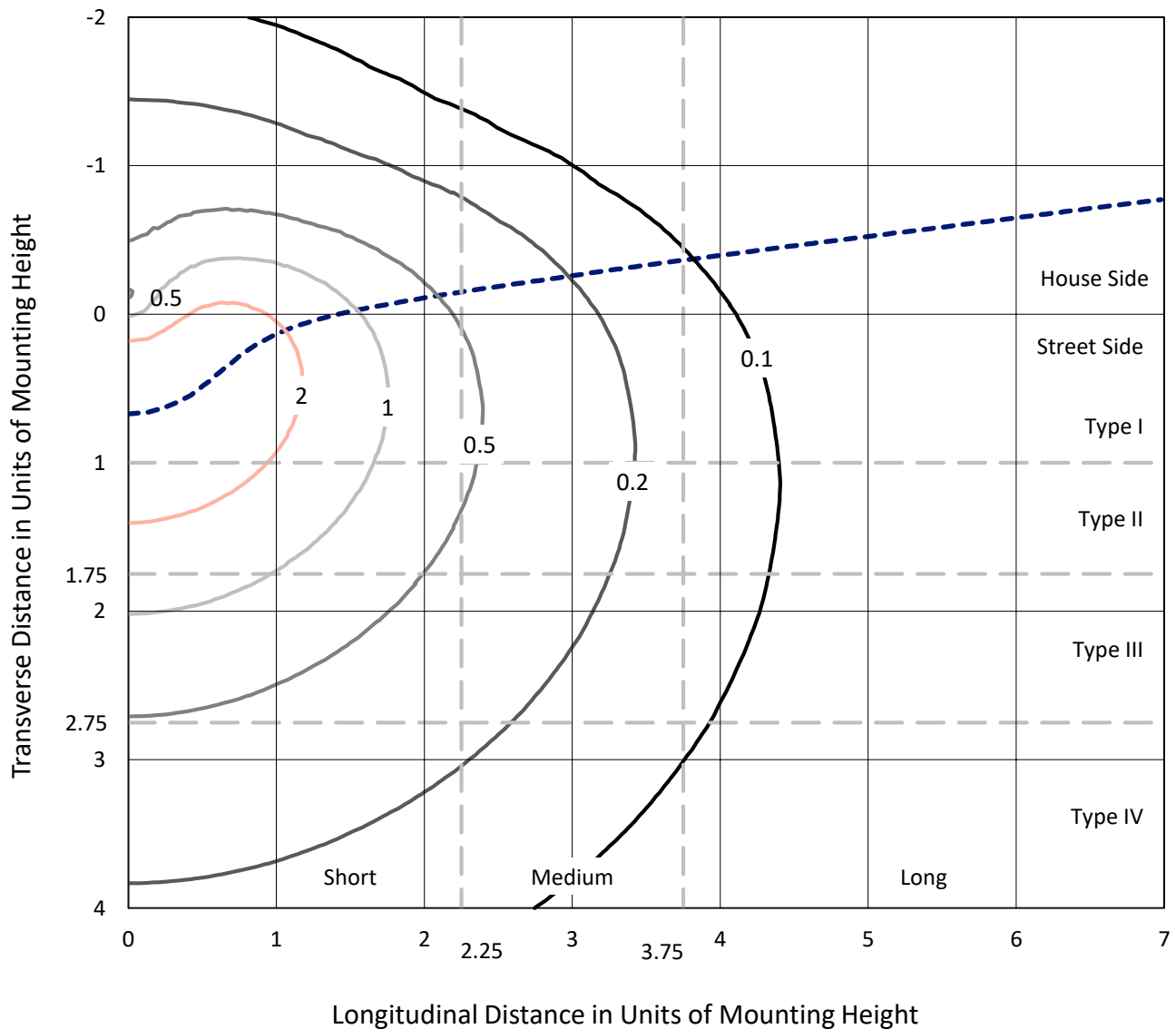


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Iso-Footcandle Lines of Horizontal Illumination

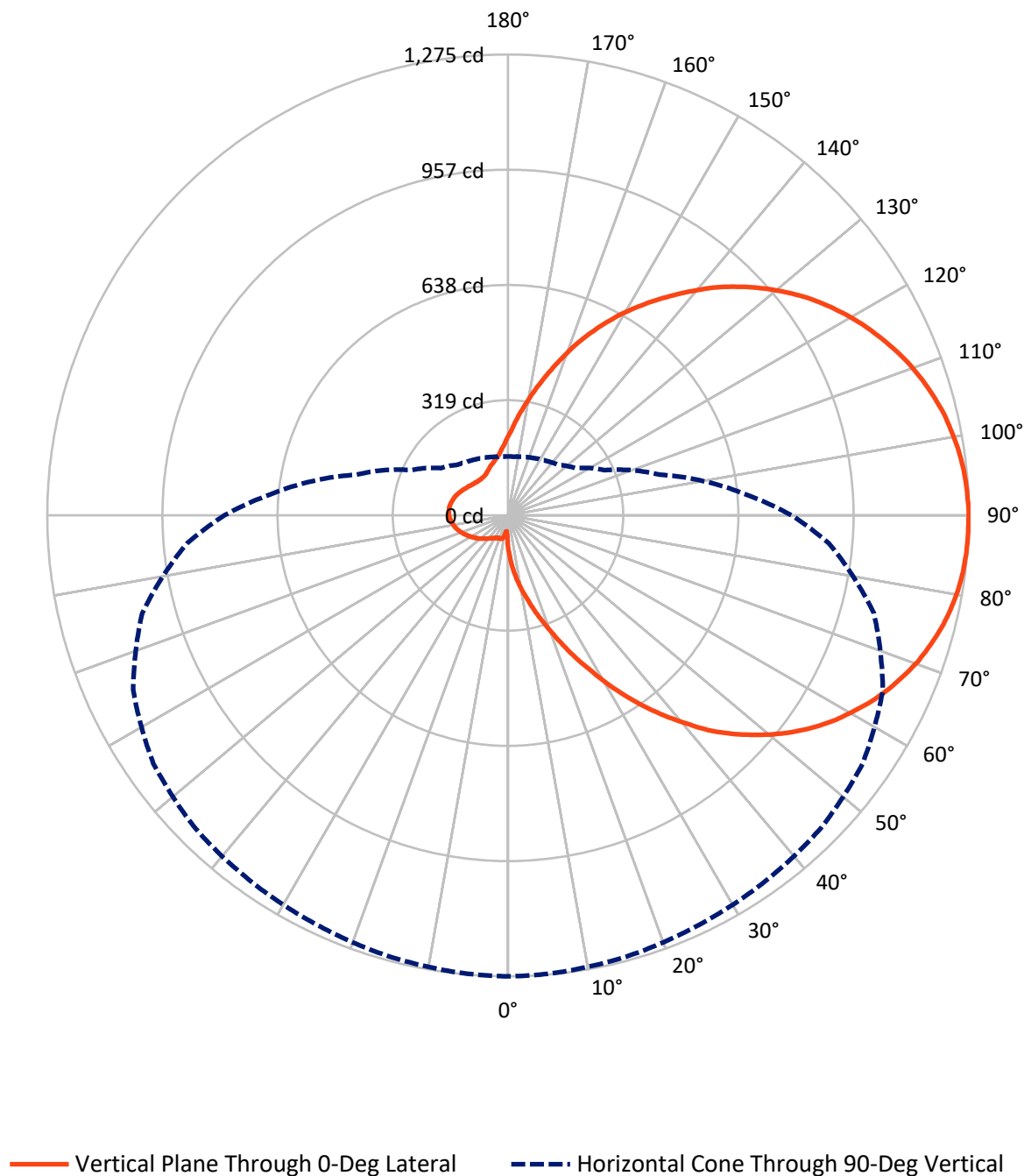
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Luminous Intensity Polar Plot



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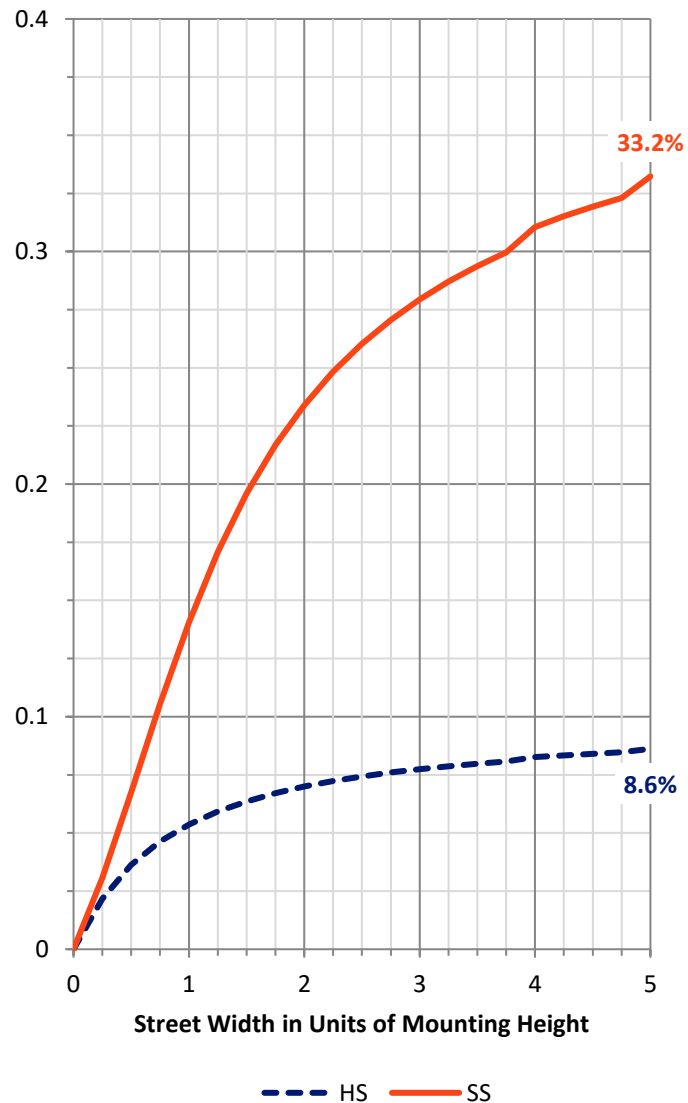
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	690.3	838.5	1528.8
	% Fixture	9.6	11.6	21.2
Street Side	Lumens	2799.9	2890.6	5690.5
	% Fixture	38.8	40.0	78.8
Total	Lumens	3490.2	3729.1	7219.3
	% Fixture	48.3	51.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	0.1
10°-20°	50.2	0.7
20°-30°	125.6	1.7
30°-40°	242.1	3.4
40°-50°	381.5	5.3
50°-60°	519.8	7.2
60°-70°	641.4	8.9
70°-80°	734.2	10.2
80°-90°	784.9	10.9
90°-100°	788.4	10.9
100°-110°	743.9	10.3
110°-120°	660.5	9.1
120°-130°	550.9	7.6
130°-140°	422.0	5.8
140°-150°	288.7	4.0
150°-160°	171.6	2.4
160°-170°	81.2	1.1
170°-180°	21.9	0.3
0°-90°	3490.2	48.3
0°-180°	7219.3	100.0

Coefficient of Utilization



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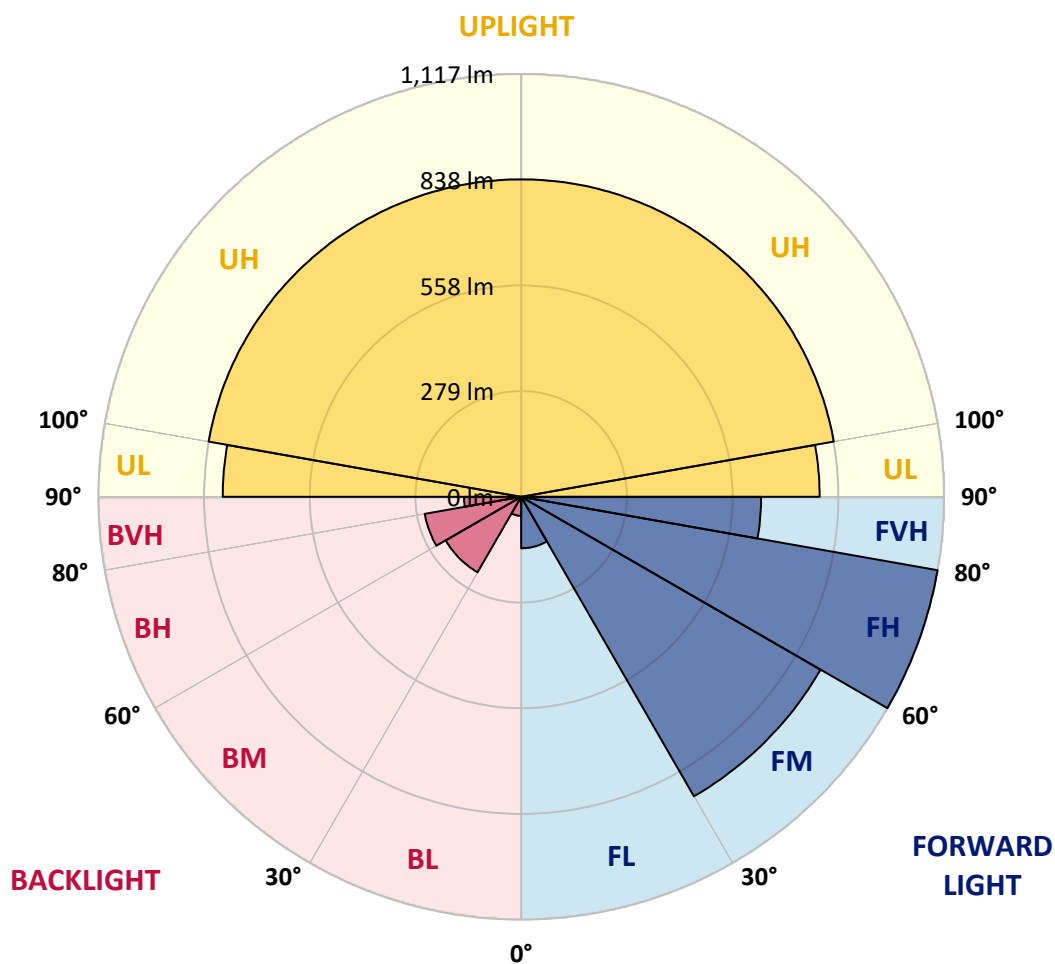
CATALOG NUMBER: ULA-A8-D-U-ASYM-VMx-7030-HSS-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	136.0	1.9			
FM	(30°-60°)	913.2	12.6			
FH	(60°-80°)	1116.9	15.5			G1/1800
FVH	(80°-90°)	633.8	8.8			G4/750
BL	(0°-30°)	50.4	0.7	B0/110		
BM	(30°-60°)	230.1	3.2	B1/1000		
BH	(60°-80°)	258.6	3.6	B1/500		G1/500
BVH	(80°-90°)	151.1	2.1			G2/225
UL	(90°-100°)	788.4	10.9		U4/1000	
UH	(100°-180°)	838.5	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°	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
2.5°	119.2	117.1	117.1	116.0	116.0	111.9	107.7	103.5	98.3	95.1	93.0
5°	150.5	147.4	146.4	143.2	140.1	132.8	127.5	119.2	111.9	102.5	98.3
7.5°	179.8	177.7	174.6	170.4	167.3	157.9	150.5	140.1	130.7	120.2	116.0
10°	209.1	207.0	203.9	199.7	193.4	186.1	177.7	165.2	153.7	141.1	134.9
12.5°	237.3	236.3	234.2	230.0	224.8	216.4	207.0	193.4	179.8	163.1	154.7
15°	271.8	269.7	267.6	263.4	258.2	248.8	238.4	224.8	207.0	188.2	178.8
17.5°	306.3	304.2	304.2	301.1	294.8	286.4	274.9	258.2	236.3	213.3	200.7
20°	345.0	342.9	342.9	339.8	333.5	325.1	312.6	294.8	270.8	240.4	225.8
22.5°	388.9	386.8	386.8	383.7	377.4	369.0	355.4	335.6	307.4	274.9	255.1
25°	437.0	433.8	433.8	430.7	424.4	416.1	402.5	379.5	347.1	310.5	287.5
27.5°	484.0	484.0	481.9	481.9	475.7	467.3	452.7	427.6	391.0	347.1	319.9
30°	539.4	539.4	536.3	535.3	527.9	520.6	503.9	476.7	437.0	384.7	352.3
32.5°	593.8	593.8	590.7	589.6	581.3	573.9	556.2	526.9	481.9	421.3	385.8
35°	649.2	647.1	645.0	644.0	636.7	627.3	609.5	576.0	525.8	457.9	418.2
37.5°	702.5	702.5	700.4	697.3	691.0	679.5	658.6	623.1	569.8	494.5	448.5
40°	755.8	756.9	754.8	751.7	741.2	731.8	709.8	671.2	612.6	529.0	478.8
42.5°	812.3	809.2	806.0	802.9	792.4	780.9	757.9	717.2	653.4	562.4	507.0
45°	861.4	859.3	856.2	852.0	842.6	828.0	805.0	760.0	692.1	592.8	534.2
47.5°	907.4	906.4	901.2	895.9	887.6	871.9	846.8	800.8	728.7	623.1	558.3
50°	952.4	952.4	947.1	938.8	929.4	916.8	887.6	839.5	763.2	651.3	582.3
52.5°	994.2	993.1	985.8	976.4	968.1	954.5	926.2	876.1	795.6	677.4	603.2
55°	1032.9	1031.8	1023.5	1014.1	1004.6	991.1	961.8	909.5	826.9	702.5	624.1
57.5°	1068.4	1067.4	1059.0	1047.5	1038.1	1024.5	994.2	939.8	855.2	725.5	644.0
60°	1099.8	1098.7	1090.4	1077.8	1068.4	1054.8	1025.6	969.1	882.3	747.5	661.7
62.5°	1131.1	1129.1	1119.6	1107.1	1095.6	1083.1	1053.8	997.3	908.5	768.4	678.5
65°	1158.3	1156.2	1145.8	1132.2	1121.7	1108.1	1078.9	1022.4	931.5	788.2	695.2
67.5°	1182.4	1180.3	1169.8	1155.2	1144.7	1131.1	1102.9	1045.4	952.4	806.0	709.8
70°	1205.4	1202.2	1191.8	1176.1	1165.6	1152.1	1123.8	1066.3	973.3	822.7	724.5
72.5°	1223.1	1221.0	1209.5	1193.9	1182.4	1170.9	1142.6	1085.1	991.1	838.4	738.1
75°	1239.9	1237.8	1226.3	1209.5	1199.1	1186.5	1159.4	1101.9	1005.7	852.0	749.6
77.5°	1252.4	1250.3	1238.8	1222.1	1211.6	1199.1	1171.9	1115.5	1018.2	863.5	759.0
80°	1262.9	1259.7	1248.2	1232.5	1221.0	1208.5	1182.4	1125.9	1029.7	872.9	768.4
82.5°	1269.1	1267.0	1256.6	1240.9	1229.4	1215.8	1189.7	1134.3	1037.1	881.3	774.7
85°	1273.3	1271.2	1260.8	1246.1	1233.6	1221.0	1194.9	1139.5	1043.3	886.5	779.9
87.5°	1274.4	1273.3	1263.9	1249.3	1236.7	1223.1	1197.0	1142.6	1047.5	890.7	783.0
90°	1275.4	1273.3	1263.9	1250.3	1237.8	1224.2	1198.0	1144.7	1048.6	891.7	785.1
92.5°	1272.3	1271.2	1262.9	1249.3	1237.8	1222.1	1196.0	1143.7	1048.6	892.8	786.2
95°	1268.1	1266.0	1259.7	1246.1	1233.6	1219.0	1191.8	1140.6	1046.5	891.7	785.1
97.5°	1260.8	1259.7	1253.5	1239.9	1228.4	1212.7	1185.5	1134.3	1041.2	887.6	783.0
100°	1250.3	1249.3	1243.0	1230.5	1217.9	1203.3	1176.1	1124.9	1032.9	881.3	777.8
102.5°	1239.9	1237.8	1231.5	1219.0	1207.5	1192.8	1165.6	1115.5	1023.5	874.0	772.6
105°	1224.2	1222.1	1216.9	1205.4	1192.8	1178.2	1151.0	1101.9	1009.9	864.6	764.2
107.5°	1207.5	1205.4	1200.1	1188.6	1176.1	1162.5	1136.4	1087.2	996.3	854.1	755.8
110°	1188.6	1184.5	1180.3	1168.8	1157.3	1144.7	1118.6	1070.5	982.7	841.6	746.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1166.7	1164.6	1159.4	1148.9	1136.4	1124.9	1098.7	1051.7	963.9	828.0	737.0
115°	1142.6	1140.6	1135.3	1124.9	1114.4	1102.9	1078.9	1029.7	946.1	814.4	726.6
117.5°	1117.6	1115.5	1109.2	1099.8	1090.4	1079.9	1054.8	1008.8	926.2	798.7	715.1
120°	1090.4	1088.3	1083.1	1074.7	1065.3	1054.8	1030.8	984.8	905.3	783.0	702.5
122.5°	1061.1	1060.1	1054.8	1045.4	1037.1	1028.7	1005.7	960.7	883.4	765.2	690.0
125°	1030.8	1028.7	1023.5	1015.1	1008.8	999.4	976.4	932.5	859.3	746.4	675.3
127.5°	997.3	996.3	991.1	983.7	977.5	969.1	946.1	904.3	833.2	726.6	659.7
130°	961.8	961.8	954.5	950.3	945.1	935.6	913.7	872.9	805.0	703.6	641.9
132.5°	925.2	924.1	920.0	913.7	909.5	900.1	879.2	839.5	774.7	680.6	623.1
135°	887.6	886.5	880.2	876.1	872.9	863.5	841.6	803.9	743.3	655.5	602.2
137.5°	847.8	847.8	841.6	838.4	834.2	823.8	802.9	766.3	709.8	628.3	579.2
140°	805.0	805.0	800.8	795.6	792.4	780.9	761.1	725.5	673.2	598.0	554.1
142.5°	763.2	763.2	759.0	753.7	749.6	738.1	718.2	684.7	636.7	568.7	529.0
145°	722.4	722.4	719.2	714.0	708.8	697.3	677.4	645.0	601.1	538.4	503.9
147.5°	681.6	681.6	678.5	673.2	668.0	656.5	636.7	606.3	565.6	510.2	477.8
150°	640.8	640.8	636.7	631.4	627.3	614.7	595.9	566.6	530.0	478.8	450.6
152.5°	599.0	599.0	594.8	590.7	584.4	572.9	554.1	529.0	493.4	448.5	423.4
155°	556.2	554.1	552.0	547.8	541.5	530.0	512.3	489.3	456.8	418.2	396.2
157.5°	514.3	512.3	509.1	506.0	499.7	489.3	472.5	450.6	422.3	388.9	370.1
160°	469.4	471.5	468.3	465.2	458.9	447.4	432.8	414.0	388.9	359.6	343.9
162.5°	427.6	428.6	426.5	423.4	418.2	406.7	394.1	377.4	355.4	330.4	316.8
165°	387.9	388.9	386.8	383.7	378.4	368.0	357.5	341.9	323.0	303.2	291.7
167.5°	352.3	354.4	350.2	347.1	342.9	333.5	324.1	311.5	294.8	279.1	269.7
170°	317.8	320.9	316.8	314.7	310.5	303.2	293.8	284.4	270.8	257.2	248.8
172.5°	287.5	289.6	286.4	284.4	280.2	273.9	267.6	259.3	248.8	238.4	233.1
175°	259.3	259.3	258.2	254.0	253.0	248.8	243.6	238.4	233.1	225.8	221.6
177.5°	233.1	233.1	233.1	232.1	231.0	228.9	226.9	223.7	220.6	217.4	215.4
180°	214.3	214.3	214.3	214.3	214.3	214.3	214.3	214.3	214.3	214.3	214.3



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
2.5°	91.0	84.7	79.5	74.2	69.0	65.9	60.6	59.6	58.5	57.5
5°	94.1	85.7	76.3	69.0	61.7	54.4	49.1	46.0	43.9	43.9
7.5°	109.8	100.4	88.9	78.4	70.0	61.7	55.4	50.2	47.0	46.0
10°	127.5	115.0	101.4	88.9	79.5	70.0	61.7	56.5	54.4	54.4
12.5°	147.4	131.7	115.0	99.3	87.8	76.3	68.0	63.8	61.7	61.7
15°	167.3	147.4	127.5	108.7	94.1	82.6	74.2	69.0	66.9	66.9
17.5°	188.2	164.1	139.0	117.1	100.4	86.8	77.4	71.1	68.0	68.0
20°	210.1	179.8	150.5	124.4	104.5	88.9	78.4	71.1	68.0	66.9
22.5°	235.2	197.6	163.1	132.8	109.8	92.0	79.5	72.1	68.0	68.0
25°	263.4	216.4	175.6	140.1	114.0	94.1	80.5	72.1	69.0	68.0
27.5°	292.7	236.3	188.2	148.4	118.1	97.2	82.6	74.2	70.0	70.0
30°	322.0	256.1	199.7	154.7	122.3	99.3	84.7	76.3	72.1	71.1
32.5°	350.2	276.0	210.1	161.0	126.5	102.5	86.8	78.4	74.2	74.2
35°	375.3	291.7	219.5	165.2	129.6	105.6	89.9	80.5	76.3	76.3
37.5°	401.4	307.4	226.9	169.4	131.7	107.7	92.0	83.6	79.5	79.5
40°	425.5	320.9	233.1	172.5	133.8	109.8	95.1	86.8	82.6	82.6
42.5°	448.5	333.5	238.4	175.6	136.9	112.9	98.3	89.9	86.8	86.8
45°	469.4	342.9	242.5	177.7	139.0	116.0	102.5	94.1	91.0	89.9
47.5°	488.2	352.3	245.7	179.8	141.1	118.1	105.6	98.3	94.1	94.1
50°	506.0	360.7	248.8	180.9	143.2	121.3	109.8	102.5	99.3	99.3
52.5°	522.7	368.0	250.9	182.9	145.3	124.4	112.9	106.6	103.5	103.5
55°	538.4	375.3	255.1	185.0	148.4	128.6	117.1	110.8	107.7	107.7
57.5°	553.0	381.6	258.2	187.1	150.5	132.8	122.3	116.0	112.9	112.9
60°	566.6	386.8	260.3	189.2	153.7	136.9	126.5	120.2	117.1	117.1
62.5°	580.2	393.1	262.4	192.4	157.9	141.1	131.7	125.5	122.3	122.3
65°	592.8	398.3	265.5	195.5	161.0	145.3	135.9	130.7	127.5	126.5
67.5°	603.2	402.5	268.7	198.6	165.2	149.5	141.1	135.9	131.7	131.7
70°	613.7	407.7	272.9	201.8	169.4	154.7	145.3	140.1	136.9	135.9
72.5°	624.1	412.9	276.0	204.9	173.5	158.9	150.5	144.3	141.1	141.1
75°	633.5	417.1	280.2	209.1	177.7	164.1	154.7	149.5	145.3	145.3
77.5°	640.8	421.3	283.3	212.2	181.9	167.3	158.9	153.7	149.5	149.5
80°	647.1	424.4	286.4	216.4	186.1	171.4	163.1	156.8	153.7	152.6
82.5°	653.4	427.6	288.5	219.5	189.2	175.6	166.2	161.0	156.8	155.8
85°	656.5	430.7	291.7	222.7	192.4	178.8	169.4	163.1	159.9	158.9
87.5°	659.7	432.8	293.8	224.8	195.5	180.9	172.5	166.2	162.0	161.0
90°	661.7	434.9	295.9	227.9	197.6	184.0	174.6	167.3	163.1	163.1
92.5°	662.8	435.9	297.9	228.9	199.7	185.0	175.6	168.3	164.1	164.1
95°	662.8	437.0	300.0	231.0	201.8	186.1	176.7	169.4	165.2	164.1
97.5°	661.7	438.0	301.1	233.1	202.8	186.1	176.7	169.4	165.2	164.1
100°	658.6	437.0	303.2	234.2	202.8	186.1	175.6	168.3	164.1	163.1
102.5°	655.5	438.0	305.3	236.3	203.9	186.1	174.6	167.3	163.1	162.0
105°	650.2	439.1	307.4	237.3	203.9	185.0	173.5	165.2	161.0	159.9
107.5°	645.0	439.1	309.4	238.4	203.9	184.0	171.4	163.1	158.9	157.9
110°	639.8	441.2	312.6	241.5	203.9	182.9	169.4	161.0	155.8	155.8



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CATALOG NUMBER: ULA-A8-D-U-ASYM-VMx-7030-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	634.6	442.2	316.8	243.6	204.9	180.9	166.2	157.9	152.6	152.6
115°	628.3	444.3	320.9	245.7	204.9	179.8	164.1	154.7	149.5	149.5
117.5°	622.0	446.4	324.1	248.8	205.9	178.8	162.0	151.6	146.4	146.4
120°	614.7	448.5	328.3	251.9	207.0	177.7	159.9	148.4	144.3	143.2
122.5°	607.4	448.5	332.4	257.2	208.0	176.7	157.9	146.4	141.1	140.1
125°	598.0	448.5	335.6	259.3	209.1	176.7	155.8	143.2	138.0	136.9
127.5°	587.5	447.4	338.7	261.4	209.1	175.6	153.7	141.1	134.9	134.9
130°	575.0	444.3	339.8	263.4	210.1	174.6	152.6	139.0	132.8	131.7
132.5°	562.4	440.1	339.8	265.5	211.2	174.6	150.5	136.9	130.7	129.6
135°	544.7	432.8	337.7	265.5	211.2	174.6	149.5	135.9	128.6	128.6
137.5°	526.9	424.4	334.5	263.4	211.2	173.5	149.5	134.9	127.5	126.5
140°	507.0	412.9	329.3	262.4	210.1	173.5	148.4	133.8	126.5	125.5
142.5°	486.1	401.4	324.1	260.3	210.1	173.5	148.4	133.8	126.5	125.5
145°	465.2	388.9	317.8	257.2	208.0	173.5	148.4	133.8	126.5	125.5
147.5°	443.3	375.3	310.5	251.9	207.0	173.5	149.5	133.8	127.5	126.5
150°	420.3	358.6	301.1	246.7	204.9	172.5	149.5	134.9	128.6	127.5
152.5°	397.3	341.9	289.6	240.4	202.8	172.5	150.5	136.9	130.7	129.6
155°	372.2	325.1	279.1	235.2	200.7	173.5	153.7	140.1	134.9	133.8
157.5°	349.2	308.4	268.7	230.0	199.7	174.6	156.8	144.3	139.0	138.0
160°	326.2	291.7	257.2	224.8	197.6	175.6	158.9	148.4	143.2	143.2
162.5°	303.2	273.9	243.6	217.4	194.4	175.6	162.0	152.6	147.4	147.4
165°	280.2	255.1	232.1	210.1	191.3	176.7	164.1	156.8	152.6	151.6
167.5°	260.3	240.4	221.6	204.9	189.2	177.7	167.3	161.0	157.9	157.9
170°	241.5	227.9	213.3	200.7	189.2	179.8	171.4	167.3	164.1	164.1
172.5°	227.9	218.5	208.0	198.6	190.3	182.9	177.7	174.6	172.5	171.4
175°	218.5	212.2	204.9	199.7	194.4	189.2	186.1	185.0	184.0	184.0
177.5°	214.3	210.1	207.0	203.9	201.8	199.7	198.6	197.6	197.6	196.5
180°	214.3	214.3	214.3	214.3	214.3	214.3	214.3	214.3	214.3	214.3

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