

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8748.6 lumens
Efficiency: N/A
Efficacy: 121.7 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



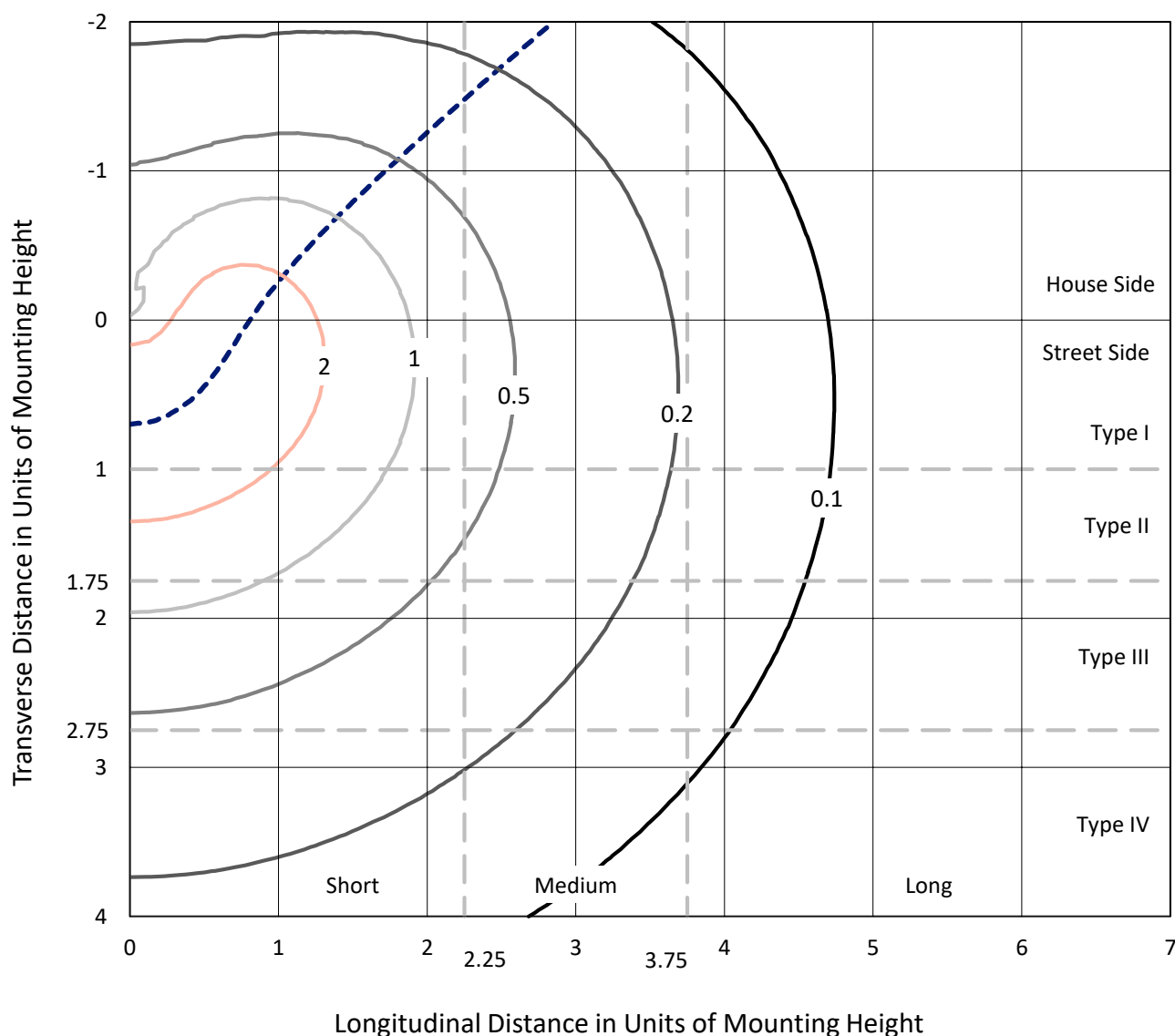
REPORT NUMBER: P274489

CATALOG NUMBER: ULA-A9-D-U-ASYM-VMx-7030-BK-PDR

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

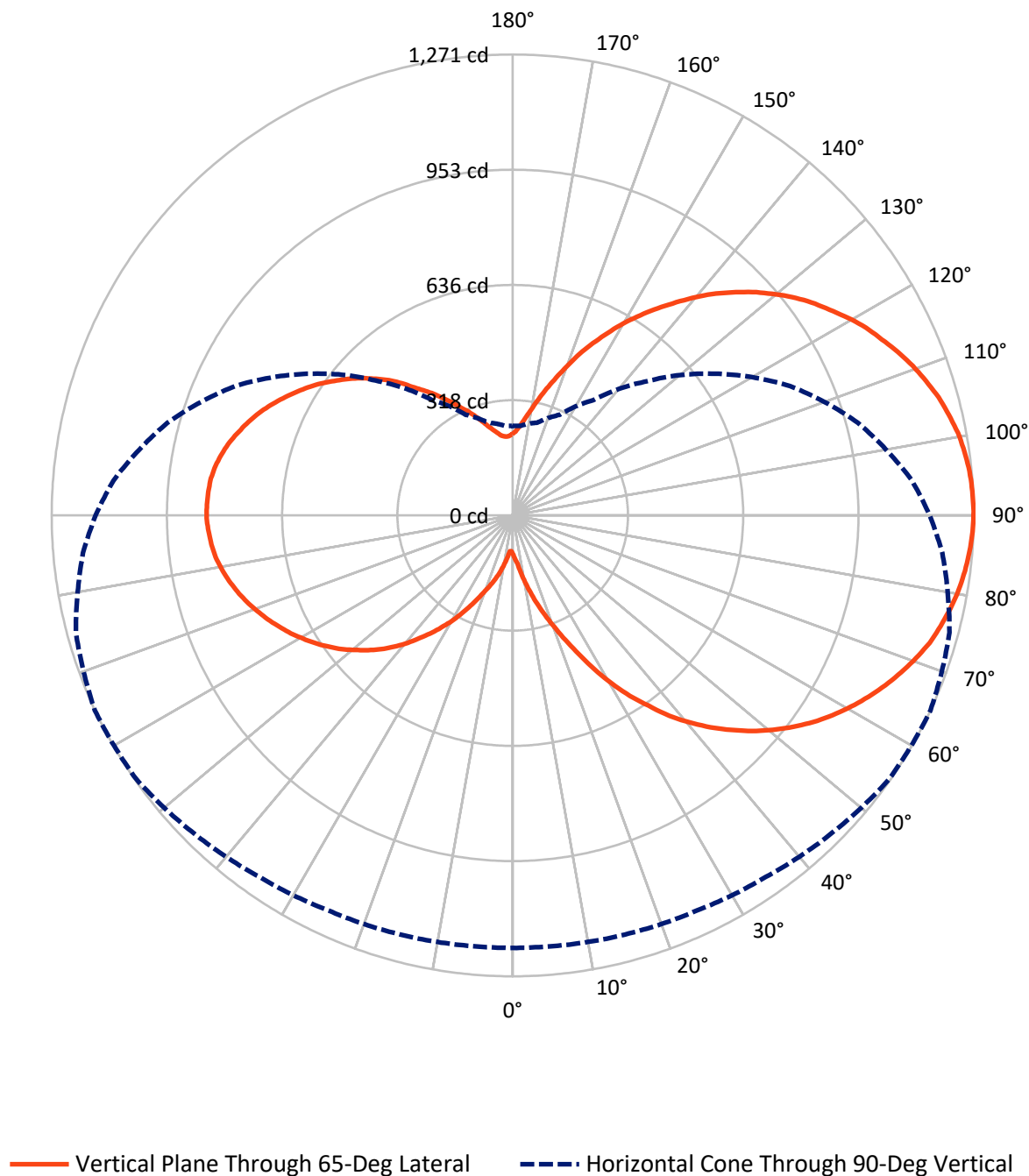


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type - Short - Non-Cutoff

REPORT NUMBER: P274489

CATALOG NUMBER: ULA-A9-D-U-ASYM-VMx-7030-BK-PDR

Luminous Intensity Polar Plot



REPORT NUMBER: P274489

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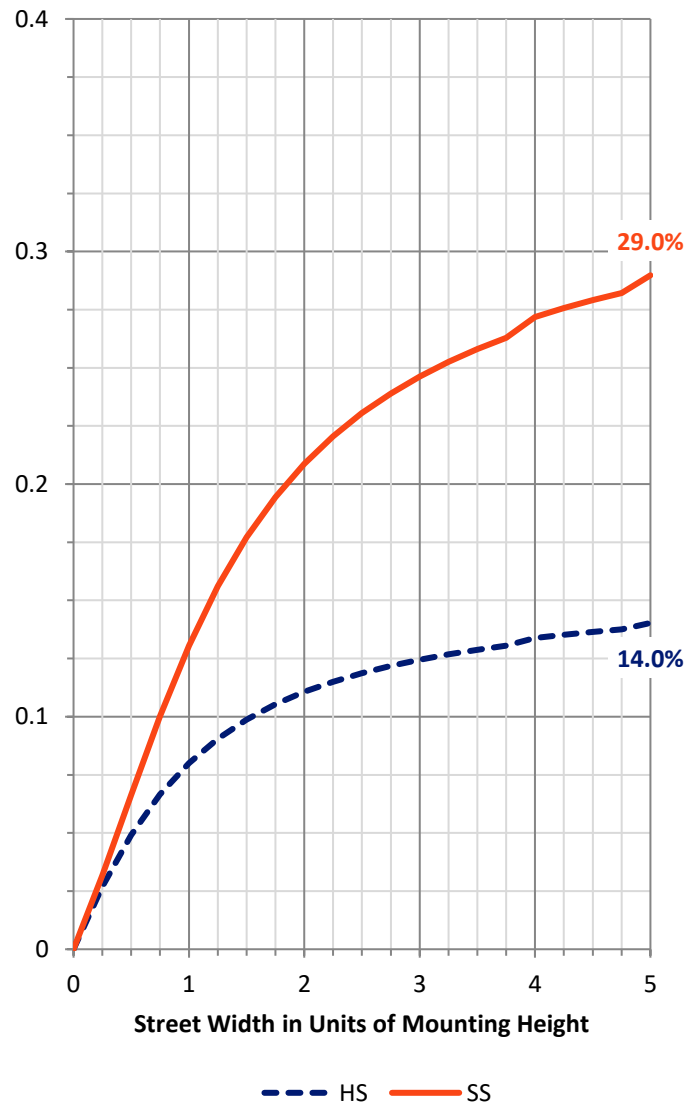
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1372.3	1441.4	2813.7
	% Fixture	15.7	16.5	32.2
Street Side	Lumens	2934.1	3000.8	5934.8
	% Fixture	33.5	34.3	67.8
Total	Lumens	4306.4	4442.2	8748.6
	% Fixture	49.2	50.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.4	0.1
10°-20°	59.6	0.7
20°-30°	150.1	1.7
30°-40°	292.7	3.3
40°-50°	464.1	5.3
50°-60°	636.9	7.3
60°-70°	792.2	9.1
70°-80°	914.7	10.5
80°-90°	983.7	11.2
90°-100°	987.4	11.3
100°-110°	921.1	10.5
110°-120°	799.2	9.1
120°-130°	646.4	7.4
130°-140°	479.0	5.5
140°-150°	317.2	3.6
150°-160°	183.6	2.1
160°-170°	85.3	1.0
170°-180°	23.0	0.3
0°-90°	4306.4	49.2
0°-180°	8748.6	100.0

Coefficient of Utilization



REPORT NUMBER: P274489

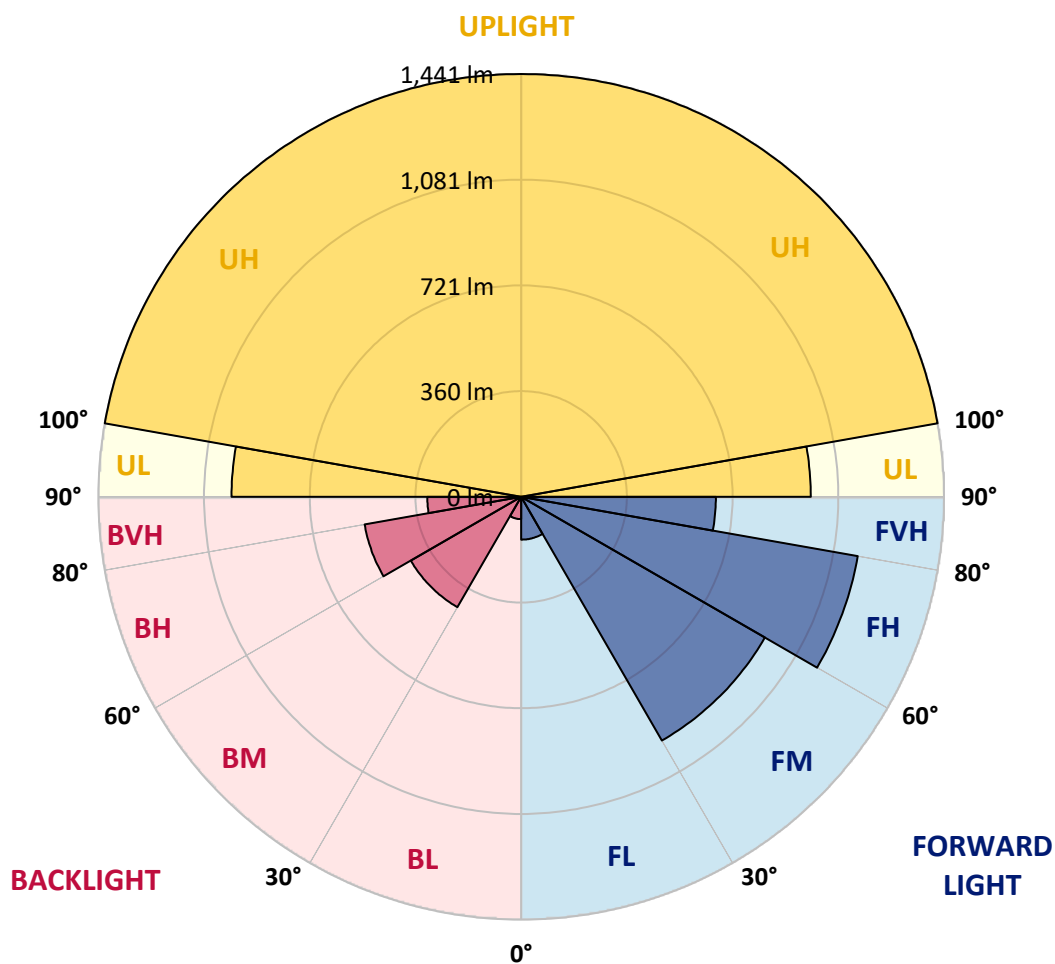
CATALOG NUMBER: ULA-A9-D-U-ASYM-VMx-7030-BK-PDR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	146.0	1.7			
FM	(30°-60°)	959.4	11.0			
FH	(60°-80°)	1165.0	13.3			G1/1800
FVH	(80°-90°)	663.6	7.6			G4/750
BL	(0°-30°)	76.0	0.9	B0/110		
BM	(30°-60°)	434.3	5.0	B1/1000		
BH	(60°-80°)	541.9	6.2	B2/1000		G2/1000
BVH	(80°-90°)	320.1	3.7			G3/500
UL	(90°-100°)	987.4	11.3		U4/1000	
UH	(100°-180°)	1441.4	16.5		U5	

BUG Rating: B2-U5-G4

Type Short





REPORT NUMBER: P274489

CATALOG NUMBER: ULA-A9-D-U-ASYM-VMx-7030-BK-PDR

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	106.4	106.4	106.4	106.4	106.4	106.4	106.4	106.4	106.4	106.4	106.4
2.5°	130.7	126.9	126.9	125.1	125.1	123.2	121.3	119.5	115.7	112.0	110.1
5°	156.8	154.9	154.9	151.2	147.5	143.7	138.1	132.5	126.9	119.5	117.6
7.5°	186.7	184.8	184.8	179.2	175.5	169.9	164.3	156.8	149.3	141.9	138.1
10°	216.5	214.6	214.6	210.9	207.2	199.7	192.3	186.7	175.5	166.1	162.4
12.5°	248.2	244.5	244.5	240.8	238.9	233.3	225.8	218.4	205.3	194.1	188.5
15°	278.1	276.2	276.2	274.4	272.5	266.9	259.4	252.0	238.9	225.8	218.4
17.5°	311.7	309.8	308.0	308.0	308.0	302.4	296.8	289.3	274.4	257.6	250.1
20°	349.0	345.3	345.3	347.2	347.2	343.4	337.8	328.5	313.6	294.9	283.7
22.5°	388.2	386.4	388.2	388.2	390.1	388.2	382.6	373.3	358.4	336.0	322.9
25°	431.2	429.3	433.0	434.9	438.6	440.5	434.9	423.7	406.9	380.8	365.8
27.5°	483.4	481.6	483.4	490.9	492.8	494.6	490.9	481.6	461.0	431.2	412.5
30°	530.1	530.1	533.8	539.4	545.0	548.8	545.0	537.6	515.2	481.6	461.0
32.5°	578.6	580.5	582.4	589.8	597.3	602.9	599.1	593.5	567.4	535.7	509.6
35°	630.9	632.7	632.7	642.1	651.4	655.1	657.0	643.9	623.4	584.2	556.2
37.5°	683.1	681.3	683.1	692.5	701.8	707.4	709.3	701.8	675.7	632.7	604.7
40°	727.9	727.9	731.7	741.0	750.3	757.8	759.7	750.3	726.1	679.4	649.5
42.5°	774.6	774.6	778.3	785.8	797.0	804.5	808.2	798.9	770.9	726.1	692.5
45°	817.5	817.5	821.3	830.6	841.8	849.3	854.9	843.7	815.7	769.0	737.3
47.5°	858.6	860.5	862.3	869.8	882.9	890.3	897.8	888.5	858.6	806.3	774.6
50°	897.8	899.7	901.5	910.9	920.2	929.5	938.9	929.5	901.5	847.4	811.9
52.5°	933.3	935.1	938.9	942.6	955.7	966.9	976.2	968.7	937.0	882.9	845.5
55°	970.6	970.6	972.4	976.2	989.2	1002.3	1013.5	1006.0	974.3	918.3	881.0
57.5°	1002.3	1002.3	1004.2	1007.9	1019.1	1032.2	1045.2	1039.6	1007.9	950.1	912.7
60°	1030.3	1030.3	1032.2	1035.9	1047.1	1063.9	1077.0	1071.4	1039.6	979.9	942.6
62.5°	1058.3	1058.3	1060.2	1063.9	1075.1	1091.9	1106.8	1101.2	1069.5	1009.8	970.6
65°	1082.6	1082.6	1082.6	1086.3	1099.4	1118.0	1133.0	1129.2	1095.6	1037.8	996.7
67.5°	1105.0	1105.0	1105.0	1106.8	1121.8	1140.4	1159.1	1155.4	1123.6	1063.9	1021.0
70°	1127.4	1123.6	1127.4	1127.4	1142.3	1162.8	1181.5	1179.6	1147.9	1088.2	1045.2
72.5°	1144.2	1142.3	1144.2	1147.9	1161.0	1181.5	1202.0	1202.0	1170.3	1108.7	1067.6
75°	1157.2	1157.2	1157.2	1161.0	1175.9	1198.3	1218.8	1218.8	1189.0	1127.4	1086.3
77.5°	1170.3	1170.3	1172.2	1174.0	1189.0	1211.4	1235.6	1233.8	1205.8	1144.2	1105.0
80°	1179.6	1177.8	1179.6	1185.2	1198.3	1222.6	1246.8	1246.8	1218.8	1159.1	1118.0
82.5°	1187.1	1185.2	1187.1	1192.7	1205.8	1231.9	1256.2	1256.2	1230.0	1172.2	1131.1
85°	1190.8	1190.8	1192.7	1198.3	1211.4	1237.5	1261.8	1263.6	1239.4	1181.5	1140.4
87.5°	1192.7	1192.7	1194.6	1202.0	1215.1	1239.4	1265.5	1269.2	1245.0	1185.2	1146.0
90°	1192.7	1192.7	1196.4	1202.0	1217.0	1241.2	1267.4	1271.1	1246.8	1189.0	1149.8
92.5°	1192.7	1190.8	1196.4	1202.0	1215.1	1239.4	1265.5	1269.2	1246.8	1189.0	1149.8
95°	1189.0	1187.1	1192.7	1198.3	1211.4	1235.6	1259.9	1265.5	1243.1	1187.1	1146.0
97.5°	1181.5	1181.5	1185.2	1192.7	1205.8	1228.2	1254.3	1258.0	1235.6	1179.6	1140.4
100°	1174.0	1174.0	1177.8	1183.4	1196.4	1220.7	1243.1	1248.7	1222.6	1170.3	1129.2
102.5°	1164.7	1164.7	1166.6	1172.2	1187.1	1209.5	1230.0	1233.8	1211.4	1155.4	1116.2
105°	1151.6	1149.8	1153.5	1159.1	1172.2	1194.6	1215.1	1218.8	1192.7	1138.6	1099.4
107.5°	1134.8	1134.8	1134.8	1142.3	1155.4	1177.8	1196.4	1198.3	1172.2	1118.0	1077.0
110°	1118.0	1118.0	1118.0	1123.6	1138.6	1159.1	1177.8	1177.8	1149.8	1095.6	1058.3



REPORT NUMBER: P274489

CATALOG NUMBER: ULA-A9-D-U-ASYM-VMx-7030-BK-PDR

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1099.4	1097.5	1097.5	1103.1	1118.0	1138.6	1157.2	1153.5	1125.5	1071.4	1034.0
115°	1077.0	1077.0	1075.1	1080.7	1097.5	1116.2	1133.0	1127.4	1101.2	1045.2	1007.9
117.5°	1054.6	1052.7	1052.7	1058.3	1073.2	1093.8	1108.7	1103.1	1073.2	1019.1	981.8
120°	1030.3	1028.4	1026.6	1032.2	1049.0	1067.6	1080.7	1073.2	1041.5	989.2	953.8
122.5°	1002.3	1000.4	1000.4	1006.0	1022.8	1041.5	1052.7	1041.5	1013.5	959.4	923.9
125°	972.4	974.3	972.4	978.0	993.0	1013.5	1022.8	1011.6	981.8	927.7	892.2
127.5°	942.6	942.6	940.7	948.2	963.1	981.8	991.1	978.0	948.2	894.1	860.5
130°	910.9	910.9	909.0	916.5	931.4	948.2	953.8	940.7	910.9	858.6	825.0
132.5°	875.4	877.3	877.3	884.7	897.8	910.9	918.3	903.4	873.5	823.1	789.5
135°	841.8	839.9	841.8	847.4	862.3	873.5	875.4	862.3	834.3	783.9	752.2
137.5°	802.6	804.5	804.5	810.1	823.1	834.3	836.2	821.3	793.3	744.7	713.0
140°	765.3	765.3	769.0	772.7	782.1	791.4	791.4	776.5	750.3	701.8	671.9
142.5°	726.1	726.1	727.9	735.4	742.9	748.5	746.6	731.7	705.5	658.9	632.7
145°	688.7	688.7	690.6	696.2	701.8	705.5	701.8	688.7	662.6	615.9	591.7
147.5°	653.3	651.4	655.1	658.9	662.6	664.5	660.7	645.8	617.8	578.6	552.5
150°	615.9	615.9	615.9	621.5	623.4	623.4	617.8	602.9	576.8	537.6	515.2
152.5°	578.6	576.8	578.6	580.5	582.4	580.5	573.0	558.1	533.8	498.4	477.8
155°	539.4	539.4	541.3	541.3	541.3	539.4	532.0	515.2	492.8	461.0	436.8
157.5°	502.1	502.1	502.1	502.1	502.1	498.4	489.0	474.1	448.0	420.0	405.0
160°	464.8	464.8	462.9	461.0	459.2	451.7	444.2	429.3	410.6	386.4	373.3
162.5°	423.7	421.8	421.8	420.0	418.1	412.5	403.2	390.1	373.3	352.8	341.6
165°	386.4	384.5	382.6	382.6	378.9	373.3	365.8	354.6	339.7	321.0	311.7
167.5°	352.8	350.9	349.0	349.0	345.3	337.8	330.4	321.0	308.0	293.0	285.6
170°	322.9	321.0	319.2	317.3	313.6	308.0	300.5	291.2	281.8	270.6	263.2
172.5°	293.0	291.2	289.3	289.3	285.6	280.0	274.4	266.9	259.4	250.1	246.4
175°	265.0	266.9	265.0	263.2	261.3	255.7	252.0	246.4	242.6	237.0	233.3
177.5°	242.6	244.5	244.5	242.6	240.8	237.0	235.2	231.4	229.6	225.8	224.0
180°	224.0	224.0	224.0	224.0	224.0	224.0	224.0	224.0	224.0	224.0	224.0



REPORT NUMBER: P274489

CATALOG NUMBER: ULA-A9-D-U-ASYM-VMx-7030-BK-PDR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	106.4	106.4	106.4	106.4	106.4	106.4	106.4	106.4	106.4	106.4
2.5°	108.3	102.7	98.9	93.3	87.7	84.0	80.3	76.5	74.7	74.7
5°	112.0	106.4	98.9	91.5	85.9	78.4	74.7	70.9	69.1	69.1
7.5°	132.5	125.1	115.7	106.4	98.9	89.6	84.0	80.3	78.4	78.4
10°	154.9	145.6	134.4	123.2	113.9	104.5	97.1	91.5	89.6	89.6
12.5°	181.1	168.0	154.9	140.0	128.8	115.7	108.3	102.7	100.8	98.9
15°	209.0	192.3	175.5	156.8	141.9	128.8	117.6	110.1	108.3	108.3
17.5°	238.9	216.5	196.0	173.6	154.9	136.3	125.1	115.7	112.0	112.0
20°	270.6	244.5	216.5	190.4	166.1	145.6	128.8	119.5	113.9	113.9
22.5°	308.0	276.2	240.8	209.0	181.1	154.9	134.4	121.3	115.7	113.9
25°	347.2	308.0	268.8	231.4	196.0	164.3	141.9	126.9	117.6	117.6
27.5°	390.1	345.3	298.6	253.8	210.9	175.5	147.5	130.7	121.3	119.5
30°	436.8	384.5	330.4	276.2	227.7	186.7	154.9	134.4	125.1	123.2
32.5°	481.6	421.8	360.2	300.5	244.5	196.0	162.4	140.0	128.8	126.9
35°	530.1	462.9	392.0	324.8	261.3	207.2	168.0	143.7	132.5	130.7
37.5°	574.9	502.1	421.8	347.2	278.1	218.4	175.5	149.3	136.3	134.4
40°	617.8	541.3	455.4	371.4	294.9	229.6	182.9	154.9	140.0	138.1
42.5°	658.9	578.6	487.2	393.8	309.8	240.8	190.4	160.5	145.6	143.7
45°	699.9	612.2	517.0	416.2	326.6	250.1	197.8	164.3	151.2	147.5
47.5°	737.3	645.8	545.0	438.6	341.6	261.3	203.4	169.9	154.9	153.1
50°	772.7	679.4	571.2	461.0	356.5	270.6	210.9	175.5	160.5	158.7
52.5°	806.3	709.3	599.1	483.4	369.6	280.0	218.4	181.1	166.1	164.3
55°	838.1	739.1	623.4	502.1	384.5	289.3	224.0	188.5	171.7	169.9
57.5°	871.7	767.1	647.7	522.6	397.6	298.6	231.4	194.1	177.3	175.5
60°	897.8	793.3	670.1	539.4	410.6	308.0	238.9	199.7	182.9	181.1
62.5°	927.7	817.5	692.5	558.1	423.7	317.3	246.4	207.2	190.4	188.5
65°	951.9	841.8	713.0	574.9	434.9	324.8	252.0	212.8	196.0	194.1
67.5°	978.0	866.1	733.5	591.7	448.0	334.1	259.4	220.2	203.4	201.6
70°	1000.4	886.6	752.2	606.6	461.0	343.4	266.9	225.8	210.9	207.2
72.5°	1021.0	909.0	770.9	621.5	476.0	350.9	274.4	233.3	216.5	214.6
75°	1039.6	925.8	787.7	634.6	485.3	358.4	280.0	238.9	224.0	220.2
77.5°	1058.3	942.6	802.6	647.7	494.6	367.7	287.4	246.4	229.6	227.7
80°	1073.2	955.7	815.7	657.0	502.1	373.3	293.0	252.0	235.2	233.3
82.5°	1084.4	966.9	826.9	666.3	509.6	378.9	296.8	255.7	238.9	237.0
85°	1093.8	976.2	834.3	673.8	517.0	382.6	302.4	259.4	242.6	240.8
87.5°	1101.2	981.8	839.9	679.4	518.9	386.4	304.2	263.2	246.4	244.5
90°	1105.0	985.5	843.7	681.3	522.6	388.2	306.1	265.0	248.2	246.4
92.5°	1103.1	985.5	843.7	683.1	524.5	390.1	308.0	265.0	248.2	246.4
95°	1101.2	983.6	841.8	681.3	522.6	390.1	308.0	265.0	248.2	246.4
97.5°	1093.8	978.0	838.1	677.5	520.8	388.2	304.2	263.2	246.4	244.5
100°	1084.4	966.9	830.6	671.9	517.0	384.5	302.4	259.4	242.6	240.8
102.5°	1069.5	955.7	819.4	664.5	509.6	378.9	296.8	255.7	238.9	237.0
105°	1052.7	940.7	806.3	653.3	502.1	373.3	291.2	250.1	233.3	231.4
107.5°	1035.9	920.2	789.5	640.2	492.8	365.8	285.6	244.5	227.7	225.8
110°	1013.5	901.5	772.7	627.1	481.6	356.5	278.1	237.0	222.1	218.4



REPORT NUMBER: P274489

CATALOG NUMBER: ULA-A9-D-U-ASYM-VMx-7030-BK-PDR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	989.2	881.0	754.1	610.3	470.4	349.0	272.5	231.4	214.6	212.8
115°	965.0	856.7	733.5	595.4	453.6	339.7	265.0	225.8	209.0	207.2
117.5°	938.9	832.5	711.1	576.8	440.5	330.4	257.6	218.4	201.6	199.7
120°	910.9	808.2	688.7	558.1	427.4	321.0	250.1	212.8	196.0	194.1
122.5°	882.9	782.1	666.3	541.3	414.4	311.7	244.5	205.3	190.4	186.7
125°	853.0	754.1	642.1	520.8	401.3	304.2	237.0	199.7	184.8	182.9
127.5°	821.3	724.2	615.9	500.2	386.4	294.9	231.4	196.0	179.2	177.3
130°	787.7	696.2	591.7	481.6	373.3	285.6	225.8	190.4	173.6	171.7
132.5°	752.2	664.5	565.6	457.3	358.4	276.2	218.4	184.8	169.9	168.0
135°	714.9	632.7	537.6	434.9	343.4	266.9	212.8	181.1	166.1	164.3
137.5°	679.4	599.1	511.4	414.4	330.4	259.4	209.0	177.3	164.3	162.4
140°	638.3	563.7	481.6	393.8	315.4	250.1	203.4	173.6	160.5	158.7
142.5°	599.1	530.1	449.8	373.3	302.4	242.6	199.7	171.7	158.7	156.8
145°	561.8	496.5	423.7	354.6	289.3	235.2	194.1	169.9	158.7	156.8
147.5°	526.4	466.6	399.4	336.0	276.2	227.7	190.4	168.0	156.8	154.9
150°	490.9	431.2	373.3	317.3	265.0	220.2	188.5	166.1	156.8	154.9
152.5°	449.8	401.3	350.9	300.5	253.8	214.6	184.8	166.1	156.8	156.8
155°	418.1	373.3	328.5	283.7	244.5	210.9	184.8	168.0	158.7	158.7
157.5°	386.4	349.0	309.8	270.6	237.0	207.2	184.8	169.9	162.4	162.4
160°	356.5	324.8	291.2	259.4	229.6	205.3	184.8	171.7	166.1	164.3
162.5°	328.5	300.5	272.5	246.4	222.1	201.6	184.8	173.6	168.0	168.0
165°	300.5	278.1	255.7	235.2	216.5	197.8	184.8	177.3	171.7	171.7
167.5°	276.2	259.4	242.6	225.8	210.9	197.8	186.7	179.2	177.3	175.5
170°	257.6	244.5	231.4	218.4	207.2	196.0	188.5	184.8	181.1	181.1
172.5°	240.8	231.4	222.1	212.8	205.3	197.8	194.1	190.4	188.5	188.5
175°	229.6	224.0	218.4	212.8	209.0	203.4	201.6	199.7	197.8	197.8
177.5°	224.0	220.2	218.4	216.5	214.6	212.8	212.8	210.9	210.9	210.9
180°	224.0	224.0	224.0	224.0	224.0	224.0	224.0	224.0	224.0	224.0

(END OF REPORT)