

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-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-HSS-BK
Description: UTILITY LIGHT ACORN TYPE IV ASYMMETRIC W/ HOUSE SIDE SHIELD
Light Source: (120) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7473.9 lumens
Efficiency: N/A
Efficacy: 130.4 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



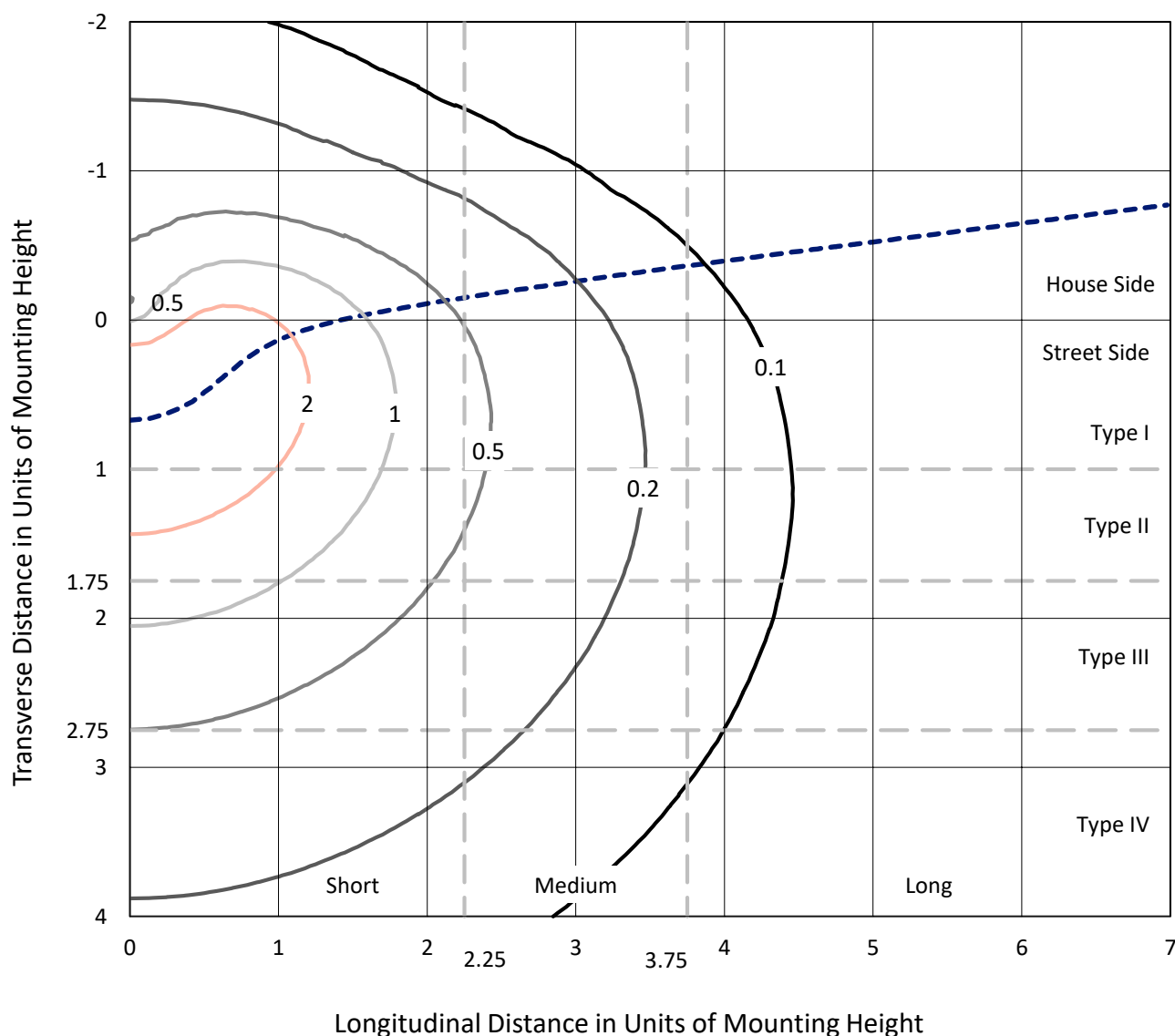
REPORT NUMBER: P274489

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

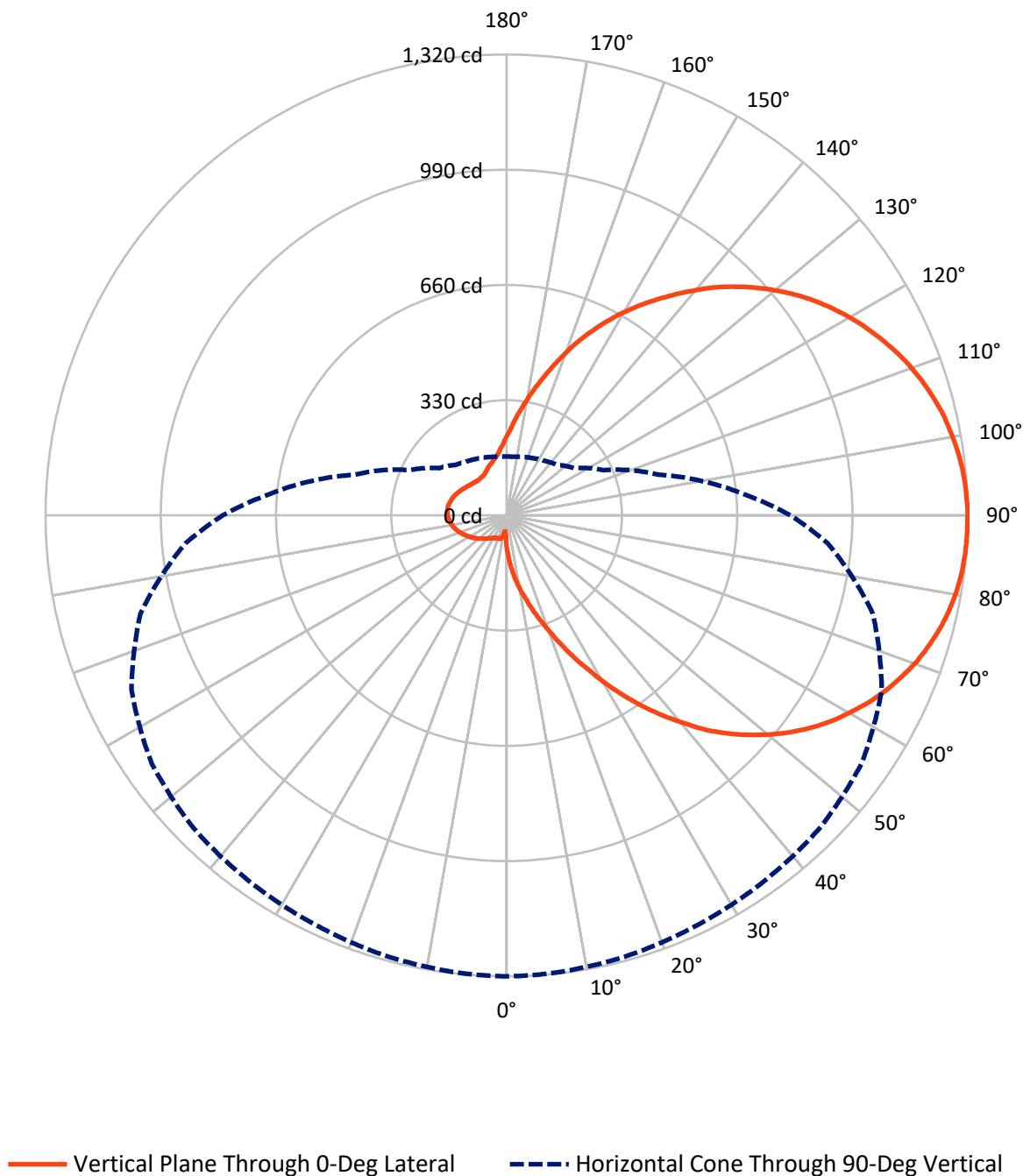


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type - Short - Non-Cutoff

REPORT NUMBER: P274489

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

Luminous Intensity Polar Plot



REPORT NUMBER: P274489

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

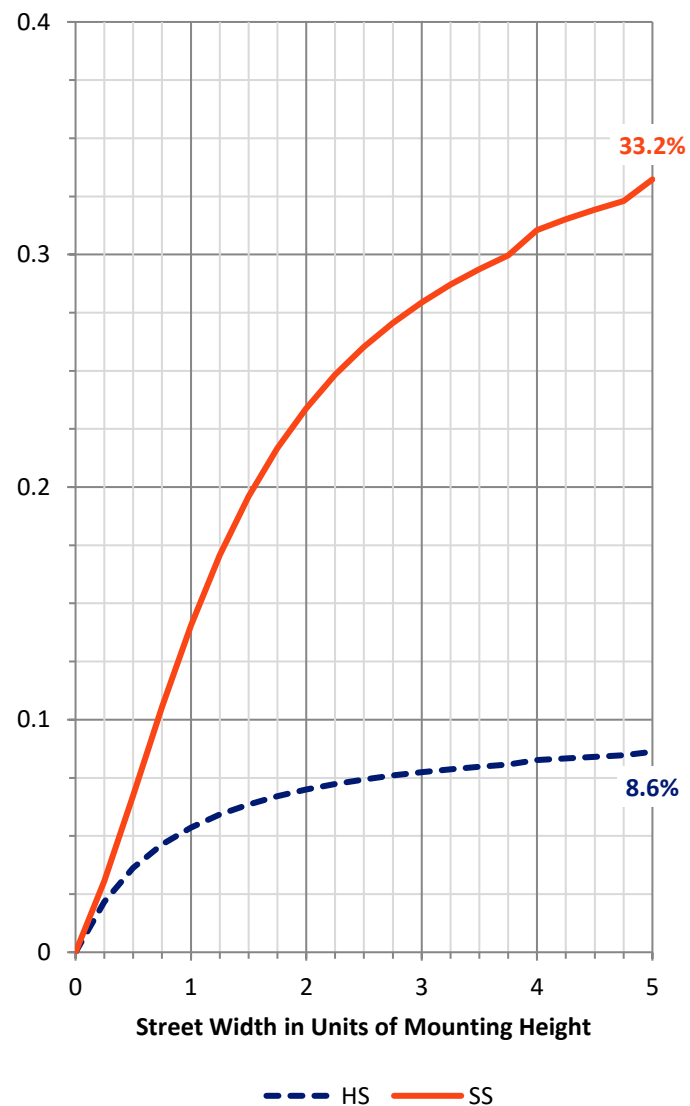
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	714.6	868.1	1582.7
	% Fixture	9.6	11.6	21.2
Street Side	Lumens	2898.6	2992.5	5891.2
	% Fixture	38.8	40.0	78.8
Total	Lumens	3613.3	3860.6	7473.9
	% Fixture	48.3	51.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.9	0.1
10°-20°	52.0	0.7
20°-30°	130.1	1.7
30°-40°	250.6	3.4
40°-50°	394.9	5.3
50°-60°	538.1	7.2
60°-70°	664.0	8.9
70°-80°	760.1	10.2
80°-90°	812.6	10.9
90°-100°	816.2	10.9
100°-110°	770.1	10.3
110°-120°	683.8	9.1
120°-130°	570.3	7.6
130°-140°	436.9	5.8
140°-150°	298.9	4.0
150°-160°	177.6	2.4
160°-170°	84.0	1.1
170°-180°	22.7	0.3
0°-90°	3613.3	48.3
0°-180°	7473.9	100.0

Coefficient of Utilization



REPORT NUMBER: P274489

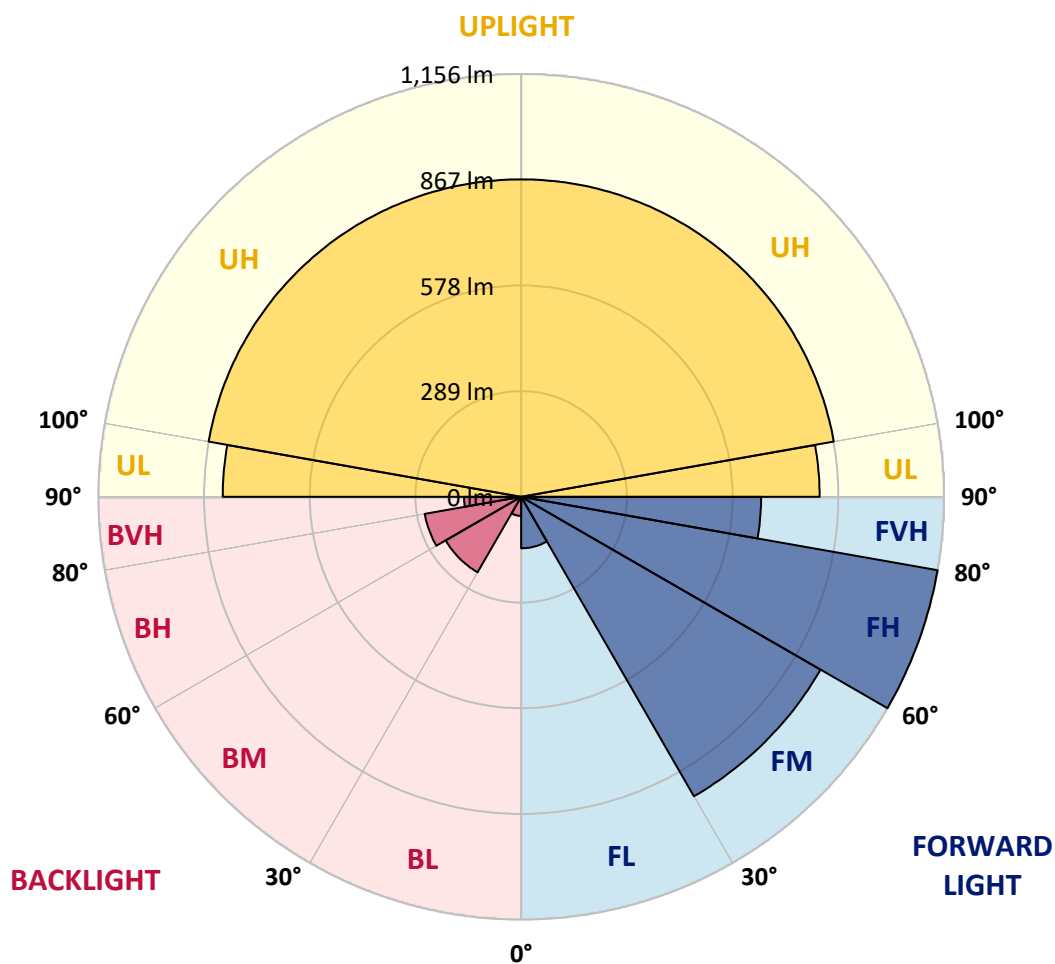
CATALOG NUMBER: ULA-A8-D-U-ASYM-VMx-HSS-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	140.8	1.9			
FM	(30°-60°)	945.4	12.6			
FH	(60°-80°)	1156.3	15.5			G1/1800
FVH	(80°-90°)	656.2	8.8			G4/750
BL	(0°-30°)	52.2	0.7	B0/110		
BM	(30°-60°)	238.2	3.2	B1/1000		
BH	(60°-80°)	267.8	3.6	B1/500		G1/500
BVH	(80°-90°)	156.4	2.1			G2/225
UL	(90°-100°)	816.2	10.9		U4/1000	
UH	(100°-180°)	868.1	11.6		U4/1000	

BUG Rating: B1-U5-G4

Type Short





REPORT NUMBER: P274489

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
2.5°	123.4	121.2	121.2	120.1	120.1	115.8	111.5	107.1	101.7	98.5	96.3
5°	155.8	152.6	151.5	148.3	145.0	137.5	132.0	123.4	115.8	106.1	101.7
7.5°	186.2	184.0	180.7	176.4	173.2	163.4	155.8	145.0	135.3	124.5	120.1
10°	216.5	214.3	211.0	206.7	200.2	192.6	184.0	171.0	159.1	146.1	139.6
12.5°	245.7	244.6	242.4	238.1	232.7	224.0	214.3	200.2	186.2	168.8	160.2
15°	281.4	279.2	277.1	272.7	267.3	257.6	246.8	232.7	214.3	194.8	185.1
17.5°	317.1	314.9	314.9	311.7	305.2	296.5	284.6	267.3	244.6	220.8	207.8
20°	357.2	355.0	355.0	351.7	345.2	336.6	323.6	305.2	280.3	248.9	233.8
22.5°	402.6	400.4	400.4	397.2	390.7	382.0	368.0	347.4	318.2	284.6	264.1
25°	452.4	449.1	449.1	445.9	439.4	430.7	416.7	392.9	359.3	321.4	297.6
27.5°	501.1	501.1	498.9	498.9	492.4	483.8	468.6	442.7	404.8	359.3	331.2
30°	558.5	558.5	555.2	554.1	546.6	539.0	521.7	493.5	452.4	398.3	364.7
32.5°	614.7	614.7	611.5	610.4	601.8	594.2	575.8	545.5	498.9	436.2	399.4
35°	672.1	669.9	667.8	666.7	659.1	649.4	631.0	596.3	544.4	474.0	432.9
37.5°	727.3	727.3	725.1	721.9	715.4	703.5	681.8	645.0	589.8	511.9	464.3
40°	782.5	783.6	781.4	778.2	767.3	757.6	734.9	694.8	634.2	547.6	495.7
42.5°	840.9	837.7	834.4	831.2	820.4	808.5	784.7	742.4	676.4	582.3	524.9
45°	891.8	889.6	886.4	882.1	872.3	857.2	833.4	786.8	716.5	613.7	553.0
47.5°	939.4	938.3	932.9	927.5	918.9	902.6	876.7	829.0	754.4	645.0	577.9
50°	986.0	986.0	980.6	971.9	962.2	949.2	918.9	869.1	790.1	674.3	602.8
52.5°	1029.3	1028.2	1020.6	1010.9	1002.2	988.1	958.9	907.0	823.6	701.3	624.5
55°	1069.3	1068.2	1059.6	1049.8	1040.1	1026.0	995.7	941.6	856.1	727.3	646.1
57.5°	1106.1	1105.0	1096.4	1084.5	1074.7	1060.6	1029.3	973.0	885.3	751.1	666.7
60°	1138.6	1137.5	1128.8	1115.8	1106.1	1092.0	1061.7	1003.3	913.4	773.8	685.1
62.5°	1171.0	1168.9	1159.1	1146.1	1134.2	1121.2	1090.9	1032.5	940.5	795.5	702.4
65°	1199.2	1197.0	1186.2	1172.1	1161.3	1147.2	1116.9	1058.5	964.3	816.0	719.7
67.5°	1224.1	1221.9	1211.1	1195.9	1185.1	1171.0	1141.8	1082.3	986.0	834.4	734.9
70°	1247.9	1244.6	1233.8	1217.6	1206.7	1192.7	1163.5	1103.9	1007.6	851.8	750.0
72.5°	1266.3	1264.1	1252.2	1236.0	1224.1	1212.2	1182.9	1123.4	1026.0	868.0	764.1
75°	1283.6	1281.4	1269.5	1252.2	1241.4	1228.4	1200.3	1140.7	1041.2	882.1	776.0
77.5°	1296.6	1294.4	1282.5	1265.2	1254.4	1241.4	1213.2	1154.8	1054.1	894.0	785.7
80°	1307.4	1304.2	1292.2	1276.0	1264.1	1251.1	1224.1	1165.6	1066.1	903.7	795.5
82.5°	1313.9	1311.7	1300.9	1284.7	1272.8	1258.7	1231.6	1174.3	1073.6	912.4	802.0
85°	1318.2	1316.1	1305.2	1290.1	1277.1	1264.1	1237.1	1179.7	1080.1	917.8	807.4
87.5°	1319.3	1318.2	1308.5	1293.3	1280.3	1266.3	1239.2	1182.9	1084.5	922.1	810.6
90°	1320.4	1318.2	1308.5	1294.4	1281.4	1267.4	1240.3	1185.1	1085.5	923.2	812.8
92.5°	1317.1	1316.1	1307.4	1293.3	1281.4	1265.2	1238.1	1184.0	1085.5	924.3	813.9
95°	1312.8	1310.6	1304.2	1290.1	1277.1	1261.9	1233.8	1180.8	1083.4	923.2	812.8
97.5°	1305.2	1304.2	1297.7	1283.6	1271.7	1255.5	1227.3	1174.3	1078.0	918.9	810.6
100°	1294.4	1293.3	1286.8	1273.9	1260.9	1245.7	1217.6	1164.5	1069.3	912.4	805.2
102.5°	1283.6	1281.4	1274.9	1261.9	1250.0	1234.9	1206.7	1154.8	1059.6	904.8	799.8
105°	1267.4	1265.2	1259.8	1247.9	1234.9	1219.7	1191.6	1140.7	1045.5	895.1	791.2
107.5°	1250.0	1247.9	1242.5	1230.6	1217.6	1203.5	1176.4	1125.6	1031.4	884.2	782.5
110°	1230.6	1226.2	1221.9	1210.0	1198.1	1185.1	1158.0	1108.3	1017.3	871.2	772.8



REPORT NUMBER: P274489

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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1207.8	1205.7	1200.3	1189.4	1176.4	1164.5	1137.5	1088.8	997.9	857.2	763.0
115°	1182.9	1180.8	1175.4	1164.5	1153.7	1141.8	1116.9	1066.1	979.5	843.1	752.2
117.5°	1157.0	1154.8	1148.3	1138.6	1128.8	1118.0	1092.0	1044.4	958.9	826.9	740.3
120°	1128.8	1126.7	1121.2	1112.6	1102.8	1092.0	1067.1	1019.5	937.3	810.6	727.3
122.5°	1098.5	1097.4	1092.0	1082.3	1073.6	1065.0	1041.2	994.6	914.5	792.2	714.3
125°	1067.1	1065.0	1059.6	1050.9	1044.4	1034.7	1010.9	965.4	889.6	772.8	699.2
127.5°	1032.5	1031.4	1026.0	1018.4	1011.9	1003.3	979.5	936.2	862.6	752.2	682.9
130°	995.7	995.7	988.1	983.8	978.4	968.6	945.9	903.7	833.4	728.4	664.5
132.5°	957.8	956.7	952.4	945.9	941.6	931.8	910.2	869.1	802.0	704.6	645.0
135°	918.9	917.8	911.3	907.0	903.7	894.0	871.2	832.3	769.5	678.6	623.4
137.5°	877.7	877.7	871.2	868.0	863.7	852.8	831.2	793.3	734.9	650.5	599.6
140°	833.4	833.4	829.0	823.6	820.4	808.5	787.9	751.1	697.0	619.1	573.6
142.5°	790.1	790.1	785.7	780.3	776.0	764.1	743.5	708.9	659.1	588.8	547.6
145°	747.9	747.9	744.6	739.2	733.8	721.9	701.3	667.8	622.3	557.4	521.7
147.5°	705.7	705.7	702.4	697.0	691.6	679.7	659.1	627.7	585.5	528.2	494.6
150°	663.4	663.4	659.1	653.7	649.4	636.4	616.9	586.6	548.7	495.7	466.5
152.5°	620.1	620.1	615.8	611.5	605.0	593.1	573.6	547.6	510.8	464.3	438.3
155°	575.8	573.6	571.4	567.1	560.6	548.7	530.3	506.5	473.0	432.9	410.2
157.5°	532.5	530.3	527.1	523.8	517.3	506.5	489.2	466.5	437.2	402.6	383.1
160°	485.9	488.1	484.9	481.6	475.1	463.2	448.1	428.6	402.6	372.3	356.1
162.5°	442.7	443.7	441.6	438.3	432.9	421.0	408.0	390.7	368.0	342.0	327.9
165°	401.5	402.6	400.4	397.2	391.8	381.0	370.1	353.9	334.4	313.9	302.0
167.5°	364.7	366.9	362.6	359.3	355.0	345.2	335.5	322.5	305.2	289.0	279.2
170°	329.0	332.3	327.9	325.8	321.4	313.9	304.1	294.4	280.3	266.2	257.6
172.5°	297.6	299.8	296.5	294.4	290.1	283.6	277.1	268.4	257.6	246.8	241.3
175°	268.4	268.4	267.3	263.0	261.9	257.6	252.2	246.8	241.3	233.8	229.4
177.5°	241.3	241.3	241.3	240.3	239.2	237.0	234.9	231.6	228.4	225.1	223.0
180°	221.9	221.9	221.9	221.9	221.9	221.9	221.9	221.9	221.9	221.9	221.9



REPORT NUMBER: P274489

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
2.5°	94.2	87.7	82.3	76.8	71.4	68.2	62.8	61.7	60.6	59.5
5°	97.4	88.7	79.0	71.4	63.9	56.3	50.9	47.6	45.5	45.5
7.5°	113.6	103.9	92.0	81.2	72.5	63.9	57.4	51.9	48.7	47.6
10°	132.0	119.1	105.0	92.0	82.3	72.5	63.9	58.4	56.3	56.3
12.5°	152.6	136.4	119.1	102.8	90.9	79.0	70.3	66.0	63.9	63.9
15°	173.2	152.6	132.0	112.6	97.4	85.5	76.8	71.4	69.3	69.3
17.5°	194.8	169.9	143.9	121.2	103.9	89.8	80.1	73.6	70.3	70.3
20°	217.5	186.2	155.8	128.8	108.2	92.0	81.2	73.6	70.3	69.3
22.5°	243.5	204.6	168.8	137.5	113.6	95.2	82.3	74.7	70.3	70.3
25°	272.7	224.0	181.8	145.0	118.0	97.4	83.3	74.7	71.4	70.3
27.5°	303.0	244.6	194.8	153.7	122.3	100.7	85.5	76.8	72.5	72.5
30°	333.3	265.2	206.7	160.2	126.6	102.8	87.7	79.0	74.7	73.6
32.5°	362.6	285.7	217.5	166.7	131.0	106.1	89.8	81.2	76.8	76.8
35°	388.5	302.0	227.3	171.0	134.2	109.3	93.1	83.3	79.0	79.0
37.5°	415.6	318.2	234.9	175.3	136.4	111.5	95.2	86.6	82.3	82.3
40°	440.5	332.3	241.3	178.6	138.5	113.6	98.5	89.8	85.5	85.5
42.5°	464.3	345.2	246.8	181.8	141.8	116.9	101.7	93.1	89.8	89.8
45°	485.9	355.0	251.1	184.0	143.9	120.1	106.1	97.4	94.2	93.1
47.5°	505.4	364.7	254.3	186.2	146.1	122.3	109.3	101.7	97.4	97.4
50°	523.8	373.4	257.6	187.2	148.3	125.5	113.6	106.1	102.8	102.8
52.5°	541.1	381.0	259.7	189.4	150.4	128.8	116.9	110.4	107.1	107.1
55°	557.4	388.5	264.1	191.6	153.7	133.1	121.2	114.7	111.5	111.5
57.5°	572.5	395.0	267.3	193.7	155.8	137.5	126.6	120.1	116.9	116.9
60°	586.6	400.4	269.5	195.9	159.1	141.8	131.0	124.5	121.2	121.2
62.5°	600.7	406.9	271.7	199.1	163.4	146.1	136.4	129.9	126.6	126.6
65°	613.7	412.4	274.9	202.4	166.7	150.4	140.7	135.3	132.0	131.0
67.5°	624.5	416.7	278.1	205.6	171.0	154.8	146.1	140.7	136.4	136.4
70°	635.3	422.1	282.5	208.9	175.3	160.2	150.4	145.0	141.8	140.7
72.5°	646.1	427.5	285.7	212.1	179.7	164.5	155.8	149.4	146.1	146.1
75°	655.9	431.8	290.1	216.5	184.0	169.9	160.2	154.8	150.4	150.4
77.5°	663.4	436.2	293.3	219.7	188.3	173.2	164.5	159.1	154.8	154.8
80°	669.9	439.4	296.5	224.0	192.6	177.5	168.8	162.3	159.1	158.0
82.5°	676.4	442.7	298.7	227.3	195.9	181.8	172.1	166.7	162.3	161.3
85°	679.7	445.9	302.0	230.5	199.1	185.1	175.3	168.8	165.6	164.5
87.5°	682.9	448.1	304.1	232.7	202.4	187.2	178.6	172.1	167.8	166.7
90°	685.1	450.2	306.3	235.9	204.6	190.5	180.7	173.2	168.8	168.8
92.5°	686.2	451.3	308.5	237.0	206.7	191.6	181.8	174.2	169.9	169.9
95°	686.2	452.4	310.6	239.2	208.9	192.6	182.9	175.3	171.0	169.9
97.5°	685.1	453.5	311.7	241.3	210.0	192.6	182.9	175.3	171.0	169.9
100°	681.8	452.4	313.9	242.4	210.0	192.6	181.8	174.2	169.9	168.8
102.5°	678.6	453.5	316.0	244.6	211.0	192.6	180.7	173.2	168.8	167.8
105°	673.2	454.6	318.2	245.7	211.0	191.6	179.7	171.0	166.7	165.6
107.5°	667.8	454.6	320.4	246.8	211.0	190.5	177.5	168.8	164.5	163.4
110°	662.4	456.7	323.6	250.0	211.0	189.4	175.3	166.7	161.3	161.3



REPORT NUMBER: P274489

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	656.9	457.8	327.9	252.2	212.1	187.2	172.1	163.4	158.0	158.0
115°	650.5	460.0	332.3	254.3	212.1	186.2	169.9	160.2	154.8	154.8
117.5°	644.0	462.1	335.5	257.6	213.2	185.1	167.8	156.9	151.5	151.5
120°	636.4	464.3	339.8	260.8	214.3	184.0	165.6	153.7	149.4	148.3
122.5°	628.8	464.3	344.2	266.2	215.4	182.9	163.4	151.5	146.1	145.0
125°	619.1	464.3	347.4	268.4	216.5	182.9	161.3	148.3	142.9	141.8
127.5°	608.2	463.2	350.7	270.6	216.5	181.8	159.1	146.1	139.6	139.6
130°	595.3	460.0	351.7	272.7	217.5	180.7	158.0	143.9	137.5	136.4
132.5°	582.3	455.6	351.7	274.9	218.6	180.7	155.8	141.8	135.3	134.2
135°	563.9	448.1	349.6	274.9	218.6	180.7	154.8	140.7	133.1	133.1
137.5°	545.5	439.4	346.3	272.7	218.6	179.7	154.8	139.6	132.0	131.0
140°	524.9	427.5	340.9	271.7	217.5	179.7	153.7	138.5	131.0	129.9
142.5°	503.3	415.6	335.5	269.5	217.5	179.7	153.7	138.5	131.0	129.9
145°	481.6	402.6	329.0	266.2	215.4	179.7	153.7	138.5	131.0	129.9
147.5°	458.9	388.5	321.4	260.8	214.3	179.7	154.8	138.5	132.0	131.0
150°	435.1	371.2	311.7	255.4	212.1	178.6	154.8	139.6	133.1	132.0
152.5°	411.3	353.9	299.8	248.9	210.0	178.6	155.8	141.8	135.3	134.2
155°	385.3	336.6	289.0	243.5	207.8	179.7	159.1	145.0	139.6	138.5
157.5°	361.5	319.3	278.1	238.1	206.7	180.7	162.3	149.4	143.9	142.9
160°	337.7	302.0	266.2	232.7	204.6	181.8	164.5	153.7	148.3	148.3
162.5°	313.9	283.6	252.2	225.1	201.3	181.8	167.8	158.0	152.6	152.6
165°	290.1	264.1	240.3	217.5	198.1	182.9	169.9	162.3	158.0	156.9
167.5°	269.5	248.9	229.4	212.1	195.9	184.0	173.2	166.7	163.4	163.4
170°	250.0	235.9	220.8	207.8	195.9	186.2	177.5	173.2	169.9	169.9
172.5°	235.9	226.2	215.4	205.6	197.0	189.4	184.0	180.7	178.6	177.5
175°	226.2	219.7	212.1	206.7	201.3	195.9	192.6	191.6	190.5	190.5
177.5°	221.9	217.5	214.3	211.0	208.9	206.7	205.6	204.6	204.6	203.5
180°	221.9	221.9	221.9	221.9	221.9	221.9	221.9	221.9	221.9	221.9

(END OF REPORT)