

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-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 (G2-1804-729-11)
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-BK
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: 7716.9 lumens
Efficiency: N/A
Efficacy: 134.7 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

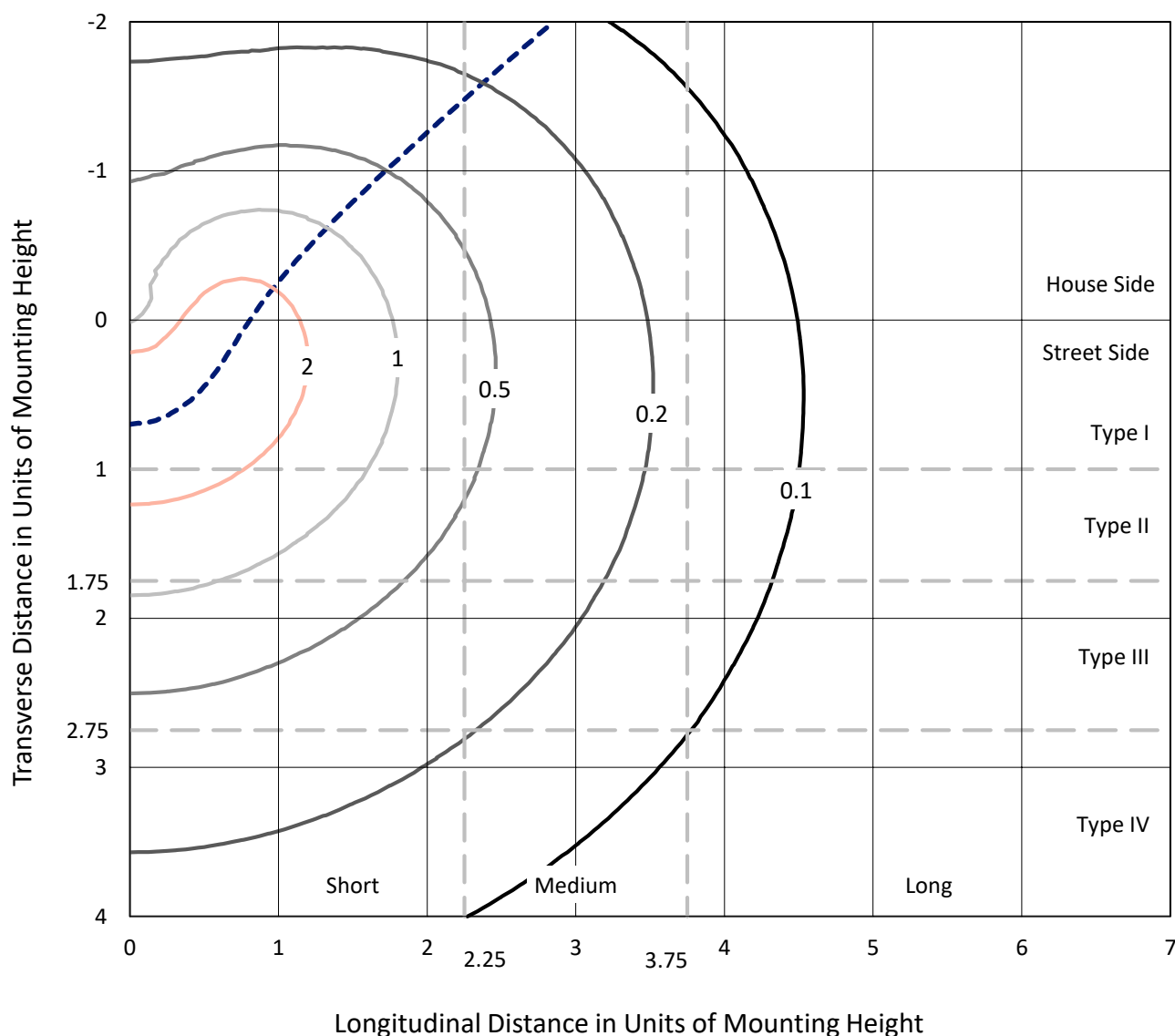


REPORT NUMBER: P274489

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

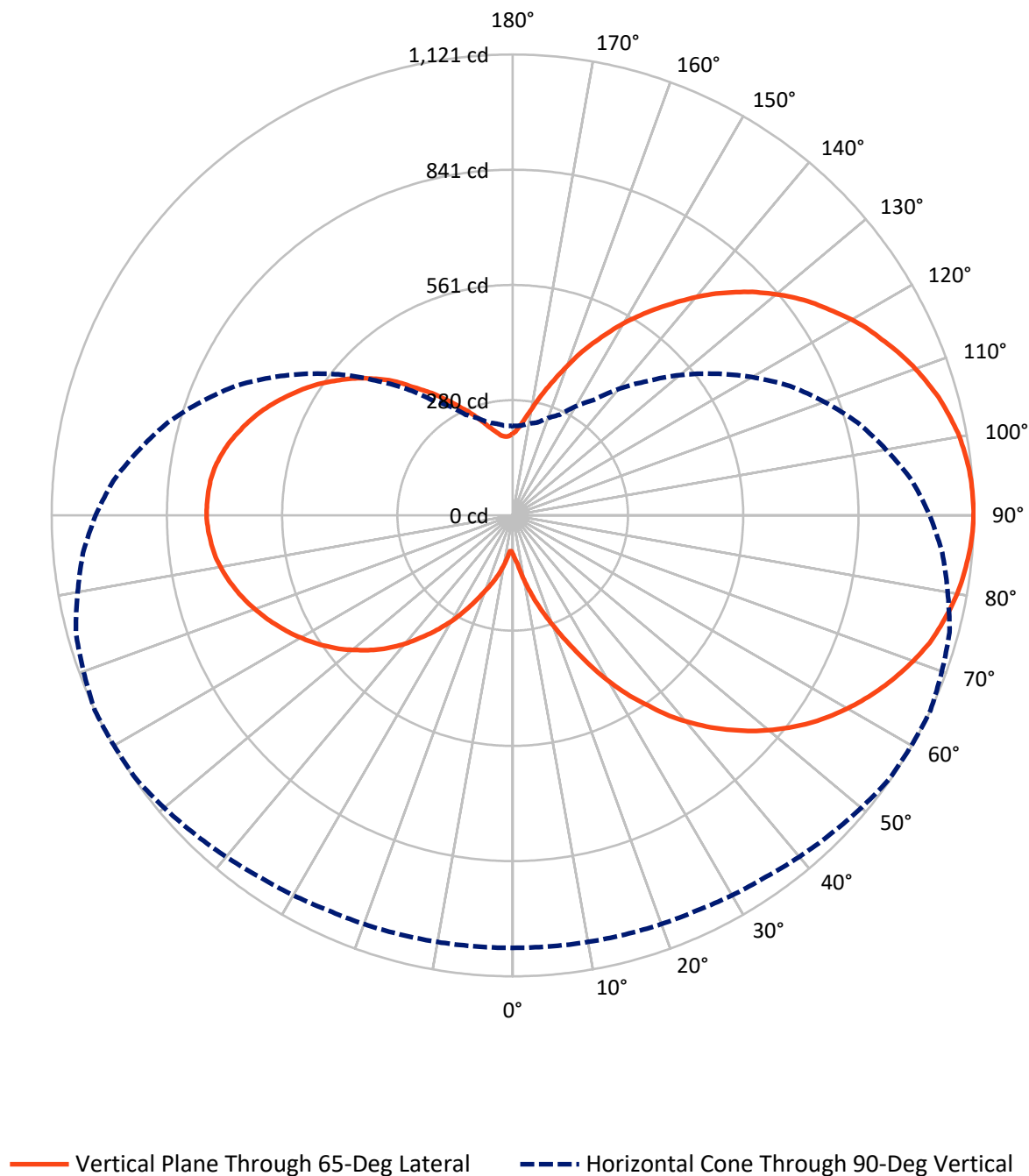


Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
 Type - Short - Non-Cutoff

REPORT NUMBER: P274489

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

Luminous Intensity Polar Plot



REPORT NUMBER: P274489

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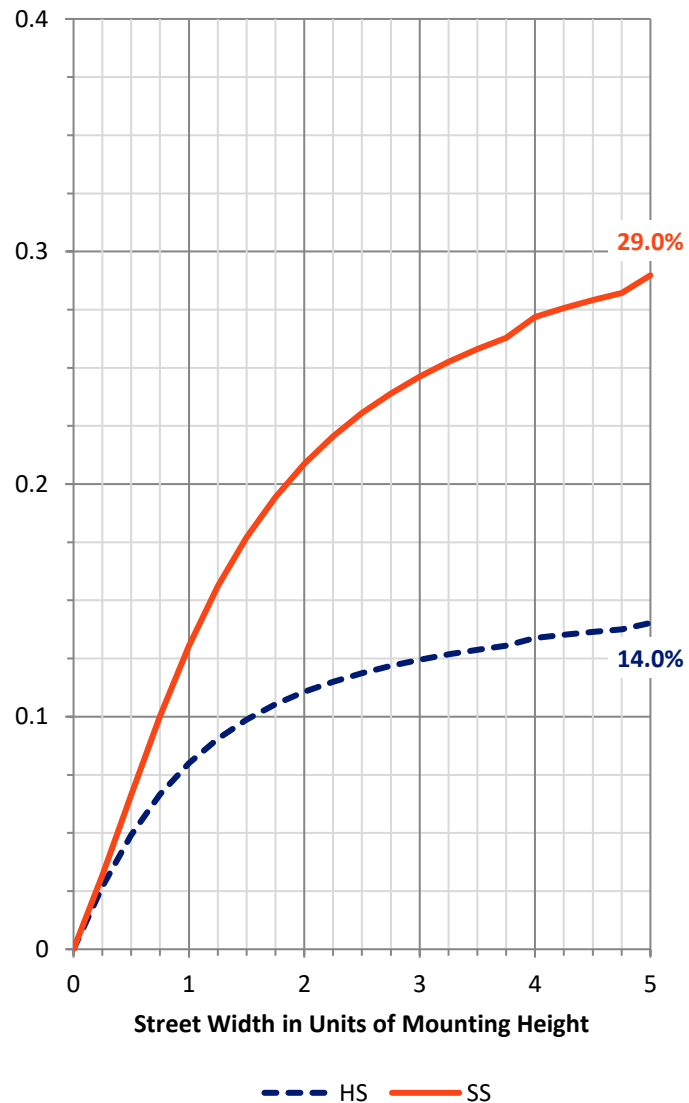
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1210.5	1271.4	2481.9
	% Fixture	15.7	16.5	32.2
Street Side	Lumens	2588.1	2646.9	5235.0
	% Fixture	33.5	34.3	67.8
Total	Lumens	3798.6	3918.3	7716.9
	% Fixture	49.2	50.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.9	0.1
10°-20°	52.5	0.7
20°-30°	132.4	1.7
30°-40°	258.1	3.3
40°-50°	409.4	5.3
50°-60°	561.8	7.3
60°-70°	698.8	9.1
70°-80°	806.9	10.5
80°-90°	867.7	11.2
90°-100°	870.9	11.3
100°-110°	812.5	10.5
110°-120°	705.0	9.1
120°-130°	570.2	7.4
130°-140°	422.5	5.5
140°-150°	279.8	3.6
150°-160°	161.9	2.1
160°-170°	75.2	1.0
170°-180°	20.3	0.3
0°-90°	3798.6	49.2
0°-180°	7716.9	100.0

Coefficient of Utilization



REPORT NUMBER: P274489

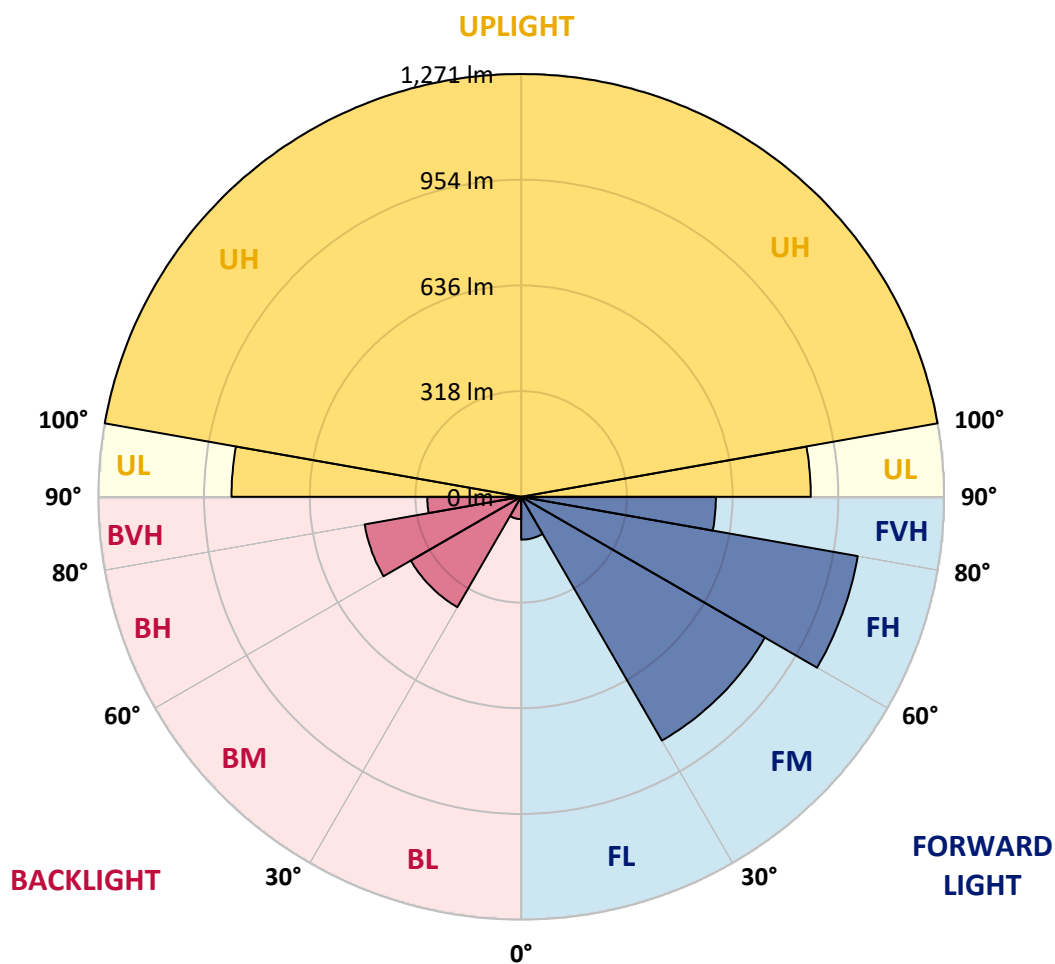
CATALOG NUMBER: ULA-A8-D-U-ASYM-VMx-7030-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	128.8	1.7			
FM	(30°-60°)	846.3	11.0			
FH	(60°-80°)	1027.6	13.3			G1/1800
FVH	(80°-90°)	585.4	7.6			G4/750
BL	(0°-30°)	67.0	0.9	B0/110		
BM	(30°-60°)	383.1	5.0	B1/1000		
BH	(60°-80°)	478.0	6.2	B1/500		G1/500
BVH	(80°-90°)	282.4	3.7			G3/500
UL	(90°-100°)	870.9	11.3		U4/1000	
UH	(100°-180°)	1271.4	16.5		U5	

BUG Rating: B1-U5-G4

Type Short





REPORT NUMBER: P274489

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
2.5°	115.2	112.0	112.0	110.3	110.3	108.7	107.0	105.4	102.1	98.8	97.1
5°	138.3	136.7	136.7	133.4	130.1	126.8	121.8	116.9	112.0	105.4	103.7
7.5°	164.6	163.0	163.0	158.1	154.8	149.8	144.9	138.3	131.7	125.1	121.8
10°	191.0	189.3	189.3	186.0	182.7	176.2	169.6	164.6	154.8	146.5	143.2
12.5°	219.0	215.7	215.7	212.4	210.7	205.8	199.2	192.6	181.1	171.2	166.3
15°	245.3	243.7	243.7	242.0	240.4	235.4	228.8	222.3	210.7	199.2	192.6
17.5°	274.9	273.3	271.7	271.7	271.7	266.7	261.8	255.2	242.0	227.2	220.6
20°	307.9	304.6	304.6	306.2	306.2	302.9	298.0	289.8	276.6	260.1	250.3
22.5°	342.4	340.8	342.4	342.4	344.1	342.4	337.5	329.3	316.1	296.4	284.8
25°	380.3	378.7	382.0	383.6	386.9	388.5	383.6	373.7	358.9	335.9	322.7
27.5°	426.4	424.8	426.4	433.0	434.6	436.3	433.0	424.8	406.7	380.3	363.9
30°	467.6	467.6	470.9	475.8	480.7	484.0	480.7	474.2	454.4	424.8	406.7
32.5°	510.4	512.0	513.7	520.3	526.8	531.8	528.5	523.6	500.5	472.5	449.5
35°	556.5	558.1	558.1	566.4	574.6	577.9	579.5	568.0	549.9	515.3	490.6
37.5°	602.6	600.9	602.6	610.8	619.0	624.0	625.6	619.0	596.0	558.1	533.4
40°	642.1	642.1	645.4	653.6	661.9	668.4	670.1	661.9	640.4	599.3	572.9
42.5°	683.3	683.3	686.5	693.1	703.0	709.6	712.9	704.7	680.0	640.4	610.8
45°	721.1	721.1	724.4	732.6	742.5	749.1	754.0	744.2	719.5	678.3	650.3
47.5°	757.3	759.0	760.6	767.2	778.7	785.3	791.9	783.7	757.3	711.2	683.3
50°	791.9	793.6	795.2	803.4	811.7	819.9	828.1	819.9	795.2	747.5	716.2
52.5°	823.2	824.8	828.1	831.4	843.0	852.8	861.1	854.5	826.5	778.7	745.8
55°	856.1	856.1	857.8	861.1	872.6	884.1	894.0	887.4	859.4	810.0	777.1
57.5°	884.1	884.1	885.8	889.1	898.9	910.5	922.0	917.0	889.1	838.0	805.1
60°	908.8	908.8	910.5	913.7	923.6	938.4	950.0	945.0	917.0	864.4	831.4
62.5°	933.5	933.5	935.2	938.4	948.3	963.1	976.3	971.4	943.4	890.7	856.1
65°	954.9	954.9	954.9	958.2	969.7	986.2	999.4	996.1	966.4	915.4	879.2
67.5°	974.7	974.7	974.7	976.3	989.5	1005.9	1022.4	1019.1	991.1	938.4	900.6
70°	994.4	991.1	994.4	994.4	1007.6	1025.7	1042.2	1040.5	1012.5	959.8	922.0
72.5°	1009.2	1007.6	1009.2	1012.5	1024.1	1042.2	1060.3	1060.3	1032.3	978.0	941.7
75°	1020.8	1020.8	1020.8	1024.1	1037.2	1057.0	1075.1	1075.1	1048.8	994.4	958.2
77.5°	1032.3	1032.3	1033.9	1035.6	1048.8	1068.5	1089.9	1088.3	1063.6	1009.2	974.7
80°	1040.5	1038.9	1040.5	1045.5	1057.0	1078.4	1099.8	1099.8	1075.1	1022.4	986.2
82.5°	1047.1	1045.5	1047.1	1052.0	1063.6	1086.6	1108.0	1108.0	1085.0	1033.9	997.7
85°	1050.4	1050.4	1052.0	1057.0	1068.5	1091.6	1113.0	1114.6	1093.2	1042.2	1005.9
87.5°	1052.0	1052.0	1053.7	1060.3	1071.8	1093.2	1116.3	1119.5	1098.1	1045.5	1010.9
90°	1052.0	1052.0	1055.3	1060.3	1073.4	1094.9	1117.9	1121.2	1099.8	1048.8	1014.2
92.5°	1052.0	1050.4	1055.3	1060.3	1071.8	1093.2	1116.3	1119.5	1099.8	1048.8	1014.2
95°	1048.8	1047.1	1052.0	1057.0	1068.5	1089.9	1111.3	1116.3	1096.5	1047.1	1010.9
97.5°	1042.2	1042.2	1045.5	1052.0	1063.6	1083.3	1106.4	1109.7	1089.9	1040.5	1005.9
100°	1035.6	1035.6	1038.9	1043.8	1055.3	1076.7	1096.5	1101.4	1078.4	1032.3	996.1
102.5°	1027.3	1027.3	1029.0	1033.9	1047.1	1066.9	1085.0	1088.3	1068.5	1019.1	984.5
105°	1015.8	1014.2	1017.5	1022.4	1033.9	1053.7	1071.8	1075.1	1052.0	1004.3	969.7
107.5°	1001.0	1001.0	1001.0	1007.6	1019.1	1038.9	1055.3	1057.0	1033.9	986.2	950.0
110°	986.2	986.2	986.2	991.1	1004.3	1022.4	1038.9	1038.9	1014.2	966.4	933.5



REPORT NUMBER: P274489

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	969.7	968.1	968.1	973.0	986.2	1004.3	1020.8	1017.5	992.8	945.0	912.1
115°	950.0	950.0	948.3	953.3	968.1	984.5	999.4	994.4	971.4	922.0	889.1
117.5°	930.2	928.6	928.6	933.5	946.7	964.8	978.0	973.0	946.7	898.9	866.0
120°	908.8	907.2	905.5	910.5	925.3	941.7	953.3	946.7	918.7	872.6	841.3
122.5°	884.1	882.5	882.5	887.4	902.2	918.7	928.6	918.7	894.0	846.2	815.0
125°	857.8	859.4	857.8	862.7	875.9	894.0	902.2	892.3	866.0	818.3	787.0
127.5°	831.4	831.4	829.8	836.4	849.5	866.0	874.2	862.7	836.4	788.6	759.0
130°	803.4	803.4	801.8	808.4	821.6	836.4	841.3	829.8	803.4	757.3	727.7
132.5°	772.2	773.8	773.8	780.4	791.9	803.4	810.0	796.9	770.5	726.1	696.4
135°	742.5	740.9	742.5	747.5	760.6	770.5	772.2	760.6	735.9	691.5	663.5
137.5°	707.9	709.6	709.6	714.5	726.1	735.9	737.6	724.4	699.7	656.9	628.9
140°	675.0	675.0	678.3	681.6	689.8	698.1	698.1	684.9	661.9	619.0	592.7
142.5°	640.4	640.4	642.1	648.7	655.3	660.2	658.6	645.4	622.3	581.2	558.1
145°	607.5	607.5	609.2	614.1	619.0	622.3	619.0	607.5	584.5	543.3	521.9
147.5°	576.2	574.6	577.9	581.2	584.5	586.1	582.8	569.7	545.0	510.4	487.3
150°	543.3	543.3	543.3	548.2	549.9	549.9	545.0	531.8	508.7	474.2	454.4
152.5°	510.4	508.7	510.4	512.0	513.7	512.0	505.4	492.3	470.9	439.6	421.5
155°	475.8	475.8	477.5	477.5	477.5	475.8	469.2	454.4	434.6	406.7	385.3
157.5°	442.9	442.9	442.9	442.9	442.9	439.6	431.4	418.2	395.1	370.4	357.3
160°	410.0	410.0	408.3	406.7	405.0	398.4	391.8	378.7	362.2	340.8	329.3
162.5°	373.7	372.1	372.1	370.4	368.8	363.9	355.6	344.1	329.3	311.2	301.3
165°	340.8	339.2	337.5	337.5	334.2	329.3	322.7	312.8	299.6	283.2	274.9
167.5°	311.2	309.5	307.9	307.9	304.6	298.0	291.4	283.2	271.7	258.5	251.9
170°	284.8	283.2	281.5	279.9	276.6	271.7	265.1	256.8	248.6	238.7	232.1
172.5°	258.5	256.8	255.2	255.2	251.9	247.0	242.0	235.4	228.8	220.6	217.3
175°	233.8	235.4	233.8	232.1	230.5	225.6	222.3	217.3	214.0	209.1	205.8
177.5°	214.0	215.7	215.7	214.0	212.4	209.1	207.4	204.2	202.5	199.2	197.6
180°	197.6	197.6	197.6	197.6	197.6	197.6	197.6	197.6	197.6	197.6	197.6



REPORT NUMBER: P274489

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
2.5°	95.5	90.6	87.3	82.3	77.4	74.1	70.8	67.5	65.9	65.9
5°	98.8	93.8	87.3	80.7	75.7	69.1	65.9	62.6	60.9	60.9
7.5°	116.9	110.3	102.1	93.8	87.3	79.0	74.1	70.8	69.1	69.1
10°	136.7	128.4	118.5	108.7	100.4	92.2	85.6	80.7	79.0	79.0
12.5°	159.7	148.2	136.7	123.5	113.6	102.1	95.5	90.6	88.9	87.3
15°	184.4	169.6	154.8	138.3	125.1	113.6	103.7	97.1	95.5	95.5
17.5°	210.7	191.0	172.9	153.1	136.7	120.2	110.3	102.1	98.8	98.8
20°	238.7	215.7	191.0	167.9	146.5	128.4	113.6	105.4	100.4	100.4
22.5°	271.7	243.7	212.4	184.4	159.7	136.7	118.5	107.0	102.1	100.4
25°	306.2	271.7	237.1	204.2	172.9	144.9	125.1	112.0	103.7	103.7
27.5°	344.1	304.6	263.4	223.9	186.0	154.8	130.1	115.2	107.0	105.4
30°	385.3	339.2	291.4	243.7	200.9	164.6	136.7	118.5	110.3	108.7
32.5°	424.8	372.1	317.8	265.1	215.7	172.9	143.2	123.5	113.6	112.0
35°	467.6	408.3	345.7	286.5	230.5	182.7	148.2	126.8	116.9	115.2
37.5°	507.1	442.9	372.1	306.2	245.3	192.6	154.8	131.7	120.2	118.5
40°	545.0	477.5	401.7	327.6	260.1	202.5	161.3	136.7	123.5	121.8
42.5°	581.2	510.4	429.7	347.4	273.3	212.4	167.9	141.6	128.4	126.8
45°	617.4	540.0	456.1	367.1	288.1	220.6	174.5	144.9	133.4	130.1
47.5°	650.3	569.7	480.7	386.9	301.3	230.5	179.5	149.8	136.7	135.0
50°	681.6	599.3	503.8	406.7	314.5	238.7	186.0	154.8	141.6	139.9
52.5°	711.2	625.6	528.5	426.4	326.0	247.0	192.6	159.7	146.5	144.9
55°	739.2	652.0	549.9	442.9	339.2	255.2	197.6	166.3	151.5	149.8
57.5°	768.9	676.7	571.3	461.0	350.7	263.4	204.2	171.2	156.4	154.8
60°	791.9	699.7	591.1	475.8	362.2	271.7	210.7	176.2	161.3	159.7
62.5°	818.3	721.1	610.8	492.3	373.7	279.9	217.3	182.7	167.9	166.3
65°	839.7	742.5	628.9	507.1	383.6	286.5	222.3	187.7	172.9	171.2
67.5°	862.7	763.9	647.0	521.9	395.1	294.7	228.8	194.3	179.5	177.8
70°	882.5	782.0	663.5	535.1	406.7	302.9	235.4	199.2	186.0	182.7
72.5°	900.6	801.8	680.0	548.2	419.8	309.5	242.0	205.8	191.0	189.3
75°	917.0	816.6	694.8	559.8	428.1	316.1	247.0	210.7	197.6	194.3
77.5°	933.5	831.4	707.9	571.3	436.3	324.3	253.5	217.3	202.5	200.9
80°	946.7	843.0	719.5	579.5	442.9	329.3	258.5	222.3	207.4	205.8
82.5°	956.6	852.8	729.4	587.8	449.5	334.2	261.8	225.6	210.7	209.1
85°	964.8	861.1	735.9	594.3	456.1	337.5	266.7	228.8	214.0	212.4
87.5°	971.4	866.0	740.9	599.3	457.7	340.8	268.4	232.1	217.3	215.7
90°	974.7	869.3	744.2	600.9	461.0	342.4	270.0	233.8	219.0	217.3
92.5°	973.0	869.3	744.2	602.6	462.6	344.1	271.7	233.8	219.0	217.3
95°	971.4	867.6	742.5	600.9	461.0	344.1	271.7	233.8	219.0	217.3
97.5°	964.8	862.7	739.2	597.6	459.3	342.4	268.4	232.1	217.3	215.7
100°	956.6	852.8	732.6	592.7	456.1	339.2	266.7	228.8	214.0	212.4
102.5°	943.4	843.0	722.8	586.1	449.5	334.2	261.8	225.6	210.7	209.1
105°	928.6	829.8	711.2	576.2	442.9	329.3	256.8	220.6	205.8	204.2
107.5°	913.7	811.7	696.4	564.7	434.6	322.7	251.9	215.7	200.9	199.2
110°	894.0	795.2	681.6	553.2	424.8	314.5	245.3	209.1	195.9	192.6



REPORT NUMBER: P274489

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	872.6	777.1	665.1	538.4	414.9	307.9	240.4	204.2	189.3	187.7
115°	851.2	755.7	647.0	525.2	400.1	299.6	233.8	199.2	184.4	182.7
117.5°	828.1	734.3	627.3	508.7	388.5	291.4	227.2	192.6	177.8	176.2
120°	803.4	712.9	607.5	492.3	377.0	283.2	220.6	187.7	172.9	171.2
122.5°	778.7	689.8	587.8	477.5	365.5	274.9	215.7	181.1	167.9	164.6
125°	752.4	665.1	566.4	459.3	354.0	268.4	209.1	176.2	163.0	161.3
127.5°	724.4	638.8	543.3	441.2	340.8	260.1	204.2	172.9	158.1	156.4
130°	694.8	614.1	521.9	424.8	329.3	251.9	199.2	167.9	153.1	151.5
132.5°	663.5	586.1	498.9	403.4	316.1	243.7	192.6	163.0	149.8	148.2
135°	630.6	558.1	474.2	383.6	302.9	235.4	187.7	159.7	146.5	144.9
137.5°	599.3	528.5	451.1	365.5	291.4	228.8	184.4	156.4	144.9	143.2
140°	563.1	497.2	424.8	347.4	278.2	220.6	179.5	153.1	141.6	139.9
142.5°	528.5	467.6	396.8	329.3	266.7	214.0	176.2	151.5	139.9	138.3
145°	495.6	437.9	373.7	312.8	255.2	207.4	171.2	149.8	139.9	138.3
147.5°	464.3	411.6	352.3	296.4	243.7	200.9	167.9	148.2	138.3	136.7
150°	433.0	380.3	329.3	279.9	233.8	194.3	166.3	146.5	138.3	136.7
152.5°	396.8	354.0	309.5	265.1	223.9	189.3	163.0	146.5	138.3	138.3
155°	368.8	329.3	289.8	250.3	215.7	186.0	163.0	148.2	139.9	139.9
157.5°	340.8	307.9	273.3	238.7	209.1	182.7	163.0	149.8	143.2	143.2
160°	314.5	286.5	256.8	228.8	202.5	181.1	163.0	151.5	146.5	144.9
162.5°	289.8	265.1	240.4	217.3	195.9	177.8	163.0	153.1	148.2	148.2
165°	265.1	245.3	225.6	207.4	191.0	174.5	163.0	156.4	151.5	151.5
167.5°	243.7	228.8	214.0	199.2	186.0	174.5	164.6	158.1	156.4	154.8
170°	227.2	215.7	204.2	192.6	182.7	172.9	166.3	163.0	159.7	159.7
172.5°	212.4	204.2	195.9	187.7	181.1	174.5	171.2	167.9	166.3	166.3
175°	202.5	197.6	192.6	187.7	184.4	179.5	177.8	176.2	174.5	174.5
177.5°	197.6	194.3	192.6	191.0	189.3	187.7	187.7	186.0	186.0	186.0
180°	197.6	197.6	197.6	197.6	197.6	197.6	197.6	197.6	197.6	197.6

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