

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7989 lumens
Efficiency: N/A
Efficacy: 139.4 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



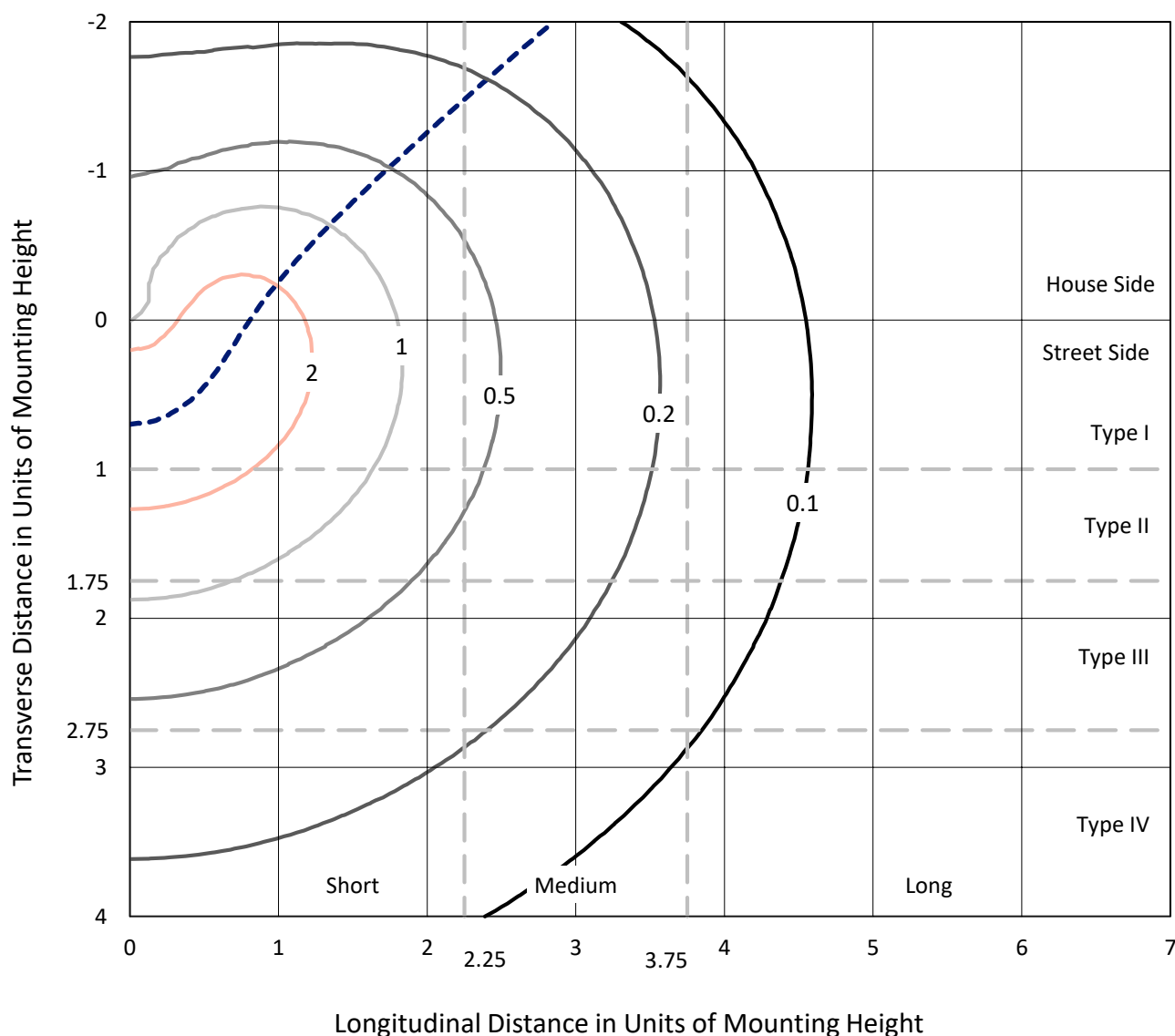
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

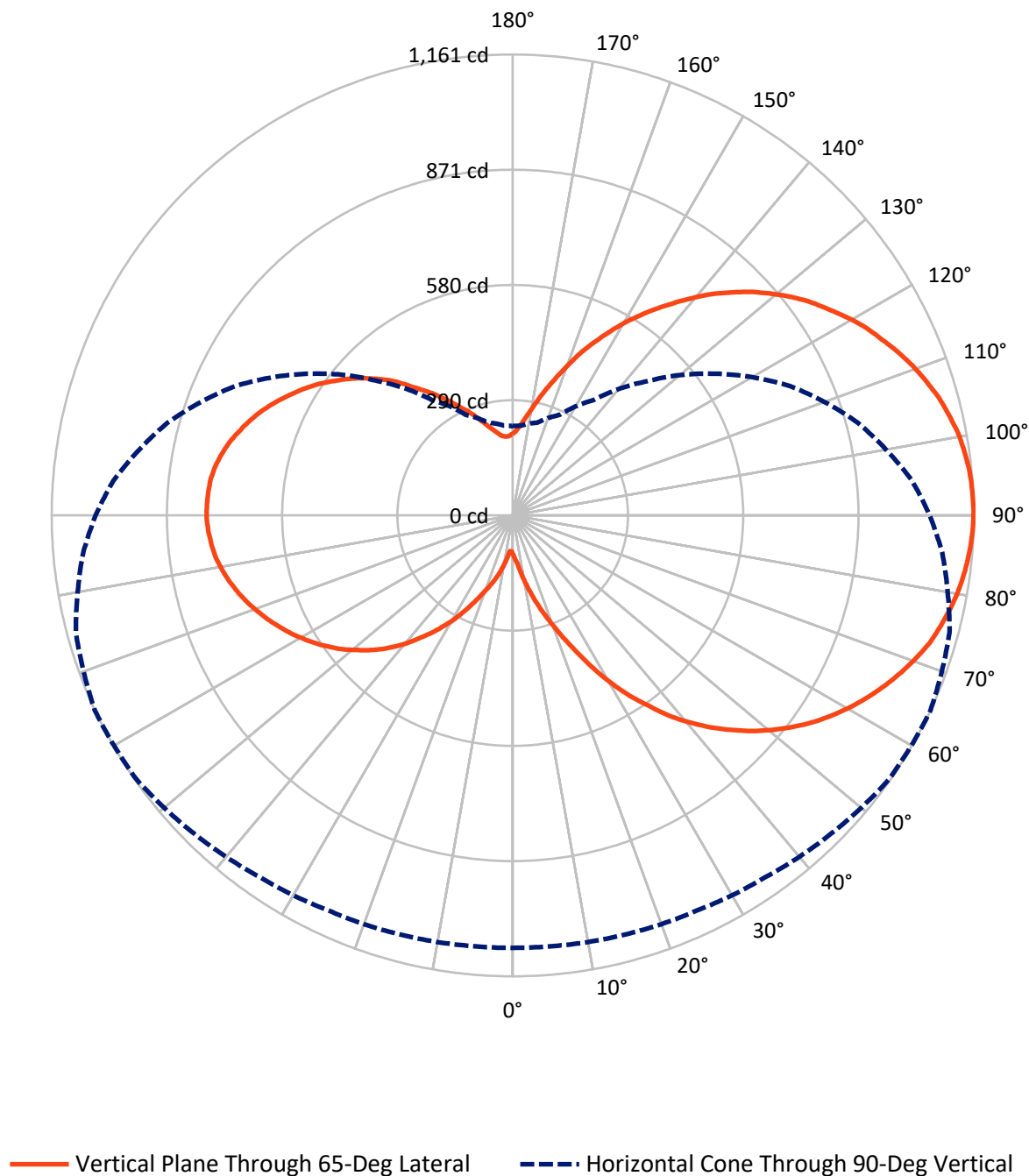


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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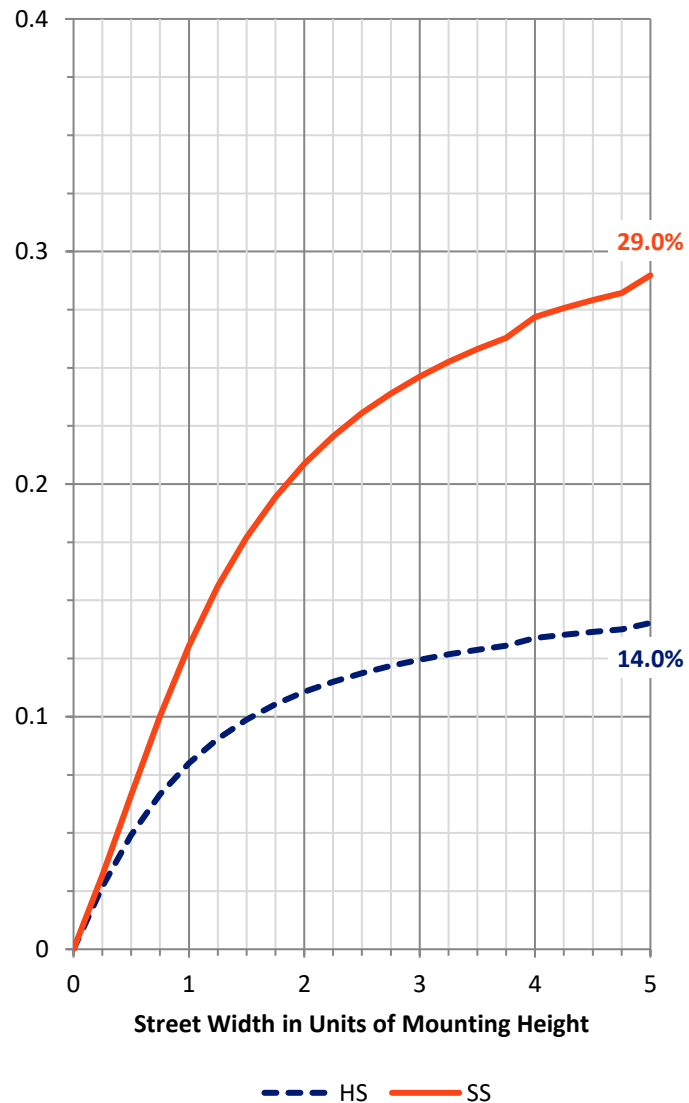
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1253.2	1316.2	2569.4
	% Fixture	15.7	16.5	32.2
Street Side	Lumens	2679.3	2740.2	5419.6
	% Fixture	33.5	34.3	67.8
Total	Lumens	3932.5	4056.5	7989.0
	% Fixture	49.2	50.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.3	0.1
10°-20°	54.4	0.7
20°-30°	137.1	1.7
30°-40°	267.2	3.3
40°-50°	423.8	5.3
50°-60°	581.6	7.3
60°-70°	723.4	9.1
70°-80°	835.3	10.5
80°-90°	898.3	11.2
90°-100°	901.6	11.3
100°-110°	841.1	10.5
110°-120°	729.8	9.1
120°-130°	590.3	7.4
130°-140°	437.4	5.5
140°-150°	289.6	3.6
150°-160°	167.6	2.1
160°-170°	77.9	1.0
170°-180°	21.0	0.3
0°-90°	3932.5	49.2
0°-180°	7989.0	100.0

Coefficient of Utilization



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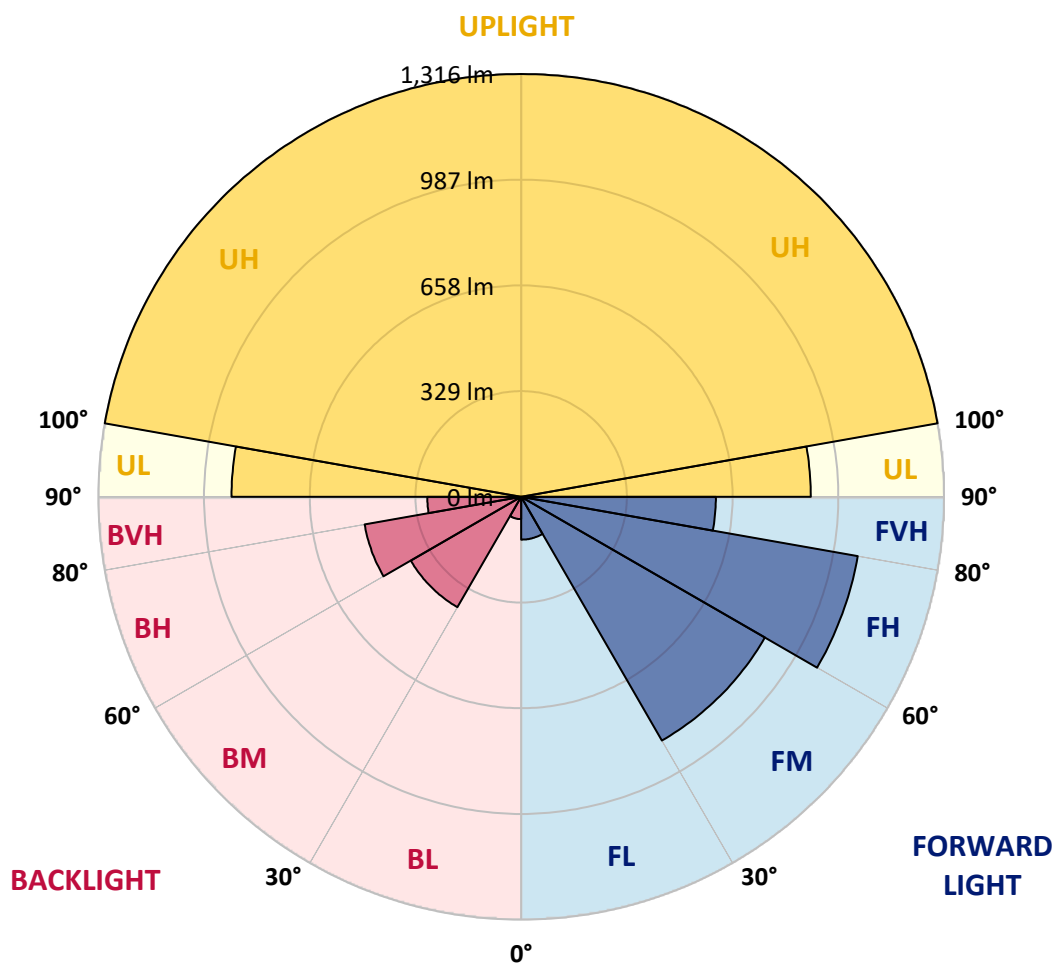
CATALOG NUMBER: ULA-A8-D-U-ASYM-VMx-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	133.4	1.7			
FM	(30°-60°)	876.1	11.0			
FH	(60°-80°)	1063.9	13.3			G1/1800
FVH	(80°-90°)	606.0	7.6			G4/750
BL	(0°-30°)	69.4	0.9	B0/110		
BM	(30°-60°)	396.6	5.0	B1/1000		
BH	(60°-80°)	494.9	6.2	B1/500		G1/500
BVH	(80°-90°)	292.3	3.7			G3/500
UL	(90°-100°)	901.6	11.3		U4/1000	
UH	(100°-180°)	1316.2	16.5		U5	

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°	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
2.5°	119.3	115.9	115.9	114.2	114.2	112.5	110.8	109.1	105.7	102.3	100.6
5°	143.2	141.5	141.5	138.1	134.7	131.2	126.1	121.0	115.9	109.1	107.4
7.5°	170.4	168.7	168.7	163.6	160.2	155.1	150.0	143.2	136.4	129.5	126.1
10°	197.7	196.0	196.0	192.6	189.2	182.4	175.6	170.4	160.2	151.7	148.3
12.5°	226.7	223.3	223.3	219.9	218.2	213.1	206.2	199.4	187.5	177.3	172.1
15°	254.0	252.3	252.3	250.6	248.8	243.7	236.9	230.1	218.2	206.2	199.4
17.5°	284.6	282.9	281.2	281.2	281.2	276.1	271.0	264.2	250.6	235.2	228.4
20°	318.7	315.3	315.3	317.0	317.0	313.6	308.5	300.0	286.3	269.3	259.1
22.5°	354.5	352.8	354.5	354.5	356.2	354.5	349.4	340.9	327.3	306.8	294.9
25°	393.7	392.0	395.4	397.1	400.5	402.2	397.1	386.9	371.6	347.7	334.1
27.5°	441.5	439.7	441.5	448.3	450.0	451.7	448.3	439.7	421.0	393.7	376.7
30°	484.1	484.1	487.5	492.6	497.7	501.1	497.7	490.9	470.4	439.7	421.0
32.5°	528.4	530.1	531.8	538.6	545.4	550.5	547.1	542.0	518.2	489.2	465.3
35°	576.1	577.8	577.8	586.3	594.9	598.3	600.0	588.0	569.3	533.5	507.9
37.5°	623.8	622.1	623.8	632.3	640.9	646.0	647.7	640.9	617.0	577.8	552.2
40°	664.7	664.7	668.1	676.7	685.2	692.0	693.7	685.2	663.0	620.4	593.1
42.5°	707.3	707.3	710.8	717.6	727.8	734.6	738.0	729.5	703.9	663.0	632.3
45°	746.5	746.5	750.0	758.5	768.7	775.5	780.6	770.4	744.8	702.2	673.3
47.5°	784.0	785.7	787.5	794.3	806.2	813.0	819.8	811.3	784.0	736.3	707.3
50°	819.8	821.5	823.2	831.8	840.3	848.8	857.3	848.8	823.2	773.8	741.4
52.5°	852.2	853.9	857.3	860.7	872.7	882.9	891.4	884.6	855.6	806.2	772.1
55°	886.3	886.3	888.0	891.4	903.4	915.3	925.5	918.7	889.7	838.6	804.5
57.5°	915.3	915.3	917.0	920.4	930.6	942.6	954.5	949.4	920.4	867.6	833.5
60°	940.9	940.9	942.6	946.0	956.2	971.5	983.5	978.4	949.4	894.8	860.7
62.5°	966.4	966.4	968.1	971.5	981.8	997.1	1010.7	1005.6	976.6	922.1	886.3
65°	988.6	988.6	988.6	992.0	1003.9	1021.0	1034.6	1031.2	1000.5	947.7	910.2
67.5°	1009.0	1009.0	1009.0	1010.7	1024.4	1041.4	1058.5	1055.1	1026.1	971.5	932.3
70°	1029.5	1026.1	1029.5	1029.5	1043.1	1061.9	1078.9	1077.2	1048.2	993.7	954.5
72.5°	1044.8	1043.1	1044.8	1048.2	1060.2	1078.9	1097.7	1097.7	1068.7	1012.4	974.9
75°	1056.8	1056.8	1056.8	1060.2	1073.8	1094.3	1113.0	1113.0	1085.7	1029.5	992.0
77.5°	1068.7	1068.7	1070.4	1072.1	1085.7	1106.2	1128.3	1126.6	1101.1	1044.8	1009.0
80°	1077.2	1075.5	1077.2	1082.3	1094.3	1116.4	1138.6	1138.6	1113.0	1058.5	1021.0
82.5°	1084.0	1082.3	1084.0	1089.1	1101.1	1124.9	1147.1	1147.1	1123.2	1070.4	1032.9
85°	1087.4	1087.4	1089.1	1094.3	1106.2	1130.0	1152.2	1153.9	1131.8	1078.9	1041.4
87.5°	1089.1	1089.1	1090.8	1097.7	1109.6	1131.8	1155.6	1159.0	1136.9	1082.3	1046.5
90°	1089.1	1089.1	1092.6	1097.7	1111.3	1133.5	1157.3	1160.7	1138.6	1085.7	1049.9
92.5°	1089.1	1087.4	1092.6	1097.7	1109.6	1131.8	1155.6	1159.0	1138.6	1085.7	1049.9
95°	1085.7	1084.0	1089.1	1094.3	1106.2	1128.3	1150.5	1155.6	1135.2	1084.0	1046.5
97.5°	1078.9	1078.9	1082.3	1089.1	1101.1	1121.5	1145.4	1148.8	1128.3	1077.2	1041.4
100°	1072.1	1072.1	1075.5	1080.6	1092.6	1114.7	1135.2	1140.3	1116.4	1068.7	1031.2
102.5°	1063.6	1063.6	1065.3	1070.4	1084.0	1104.5	1123.2	1126.6	1106.2	1055.1	1019.3
105°	1051.6	1049.9	1053.3	1058.5	1070.4	1090.8	1109.6	1113.0	1089.1	1039.7	1003.9
107.5°	1036.3	1036.3	1036.3	1043.1	1055.1	1075.5	1092.6	1094.3	1070.4	1021.0	983.5
110°	1021.0	1021.0	1021.0	1026.1	1039.7	1058.5	1075.5	1075.5	1049.9	1000.5	966.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1003.9	1002.2	1002.2	1007.3	1021.0	1039.7	1056.8	1053.3	1027.8	978.4	944.3
115°	983.5	983.5	981.8	986.9	1002.2	1019.3	1034.6	1029.5	1005.6	954.5	920.4
117.5°	963.0	961.3	961.3	966.4	980.1	998.8	1012.4	1007.3	980.1	930.6	896.5
120°	940.9	939.2	937.4	942.6	957.9	974.9	986.9	980.1	951.1	903.4	871.0
122.5°	915.3	913.6	913.6	918.7	934.0	951.1	961.3	951.1	925.5	876.1	843.7
125°	888.0	889.7	888.0	893.1	906.8	925.5	934.0	923.8	896.5	847.1	814.7
127.5°	860.7	860.7	859.0	865.9	879.5	896.5	905.1	893.1	865.9	816.4	785.7
130°	831.8	831.8	830.1	836.9	850.5	865.9	871.0	859.0	831.8	784.0	753.4
132.5°	799.4	801.1	801.1	807.9	819.8	831.8	838.6	825.0	797.7	751.7	721.0
135°	768.7	767.0	768.7	773.8	787.5	797.7	799.4	787.5	761.9	715.9	686.9
137.5°	732.9	734.6	734.6	739.7	751.7	761.9	763.6	750.0	724.4	680.1	651.1
140°	698.8	698.8	702.2	705.6	714.2	722.7	722.7	709.0	685.2	640.9	613.6
142.5°	663.0	663.0	664.7	671.6	678.4	683.5	681.8	668.1	644.3	601.7	577.8
145°	628.9	628.9	630.6	635.8	640.9	644.3	640.9	628.9	605.1	562.5	540.3
147.5°	596.6	594.9	598.3	601.7	605.1	606.8	603.4	589.7	564.2	528.4	504.5
150°	562.5	562.5	562.5	567.6	569.3	569.3	564.2	550.5	526.7	490.9	470.4
152.5°	528.4	526.7	528.4	530.1	531.8	530.1	523.3	509.6	487.5	455.1	436.3
155°	492.6	492.6	494.3	494.3	494.3	492.6	485.8	470.4	450.0	421.0	398.8
157.5°	458.5	458.5	458.5	458.5	458.5	455.1	446.6	432.9	409.1	383.5	369.9
160°	424.4	424.4	422.7	421.0	419.3	412.5	405.7	392.0	375.0	352.8	340.9
162.5°	386.9	385.2	385.2	383.5	381.8	376.7	368.2	356.2	340.9	322.1	311.9
165°	352.8	351.1	349.4	349.4	346.0	340.9	334.1	323.8	310.2	293.2	284.6
167.5°	322.1	320.4	318.7	318.7	315.3	308.5	301.7	293.2	281.2	267.6	260.8
170°	294.9	293.2	291.5	289.8	286.3	281.2	274.4	265.9	257.4	247.1	240.3
172.5°	267.6	265.9	264.2	264.2	260.8	255.7	250.6	243.7	236.9	228.4	225.0
175°	242.0	243.7	242.0	240.3	238.6	233.5	230.1	225.0	221.6	216.5	213.1
177.5°	221.6	223.3	223.3	221.6	219.9	216.5	214.8	211.4	209.6	206.2	204.5
180°	204.5	204.5	204.5	204.5	204.5	204.5	204.5	204.5	204.5	204.5	204.5



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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
2.5°	98.9	93.7	90.3	85.2	80.1	76.7	73.3	69.9	68.2	68.2
5°	102.3	97.2	90.3	83.5	78.4	71.6	68.2	64.8	63.1	63.1
7.5°	121.0	114.2	105.7	97.2	90.3	81.8	76.7	73.3	71.6	71.6
10°	141.5	132.9	122.7	112.5	104.0	95.4	88.6	83.5	81.8	81.8
12.5°	165.3	153.4	141.5	127.8	117.6	105.7	98.9	93.7	92.0	90.3
15°	190.9	175.6	160.2	143.2	129.5	117.6	107.4	100.6	98.9	98.9
17.5°	218.2	197.7	179.0	158.5	141.5	124.4	114.2	105.7	102.3	102.3
20°	247.1	223.3	197.7	173.9	151.7	132.9	117.6	109.1	104.0	104.0
22.5°	281.2	252.3	219.9	190.9	165.3	141.5	122.7	110.8	105.7	104.0
25°	317.0	281.2	245.4	211.4	179.0	150.0	129.5	115.9	107.4	107.4
27.5°	356.2	315.3	272.7	231.8	192.6	160.2	134.7	119.3	110.8	109.1
30°	398.8	351.1	301.7	252.3	207.9	170.4	141.5	122.7	114.2	112.5
32.5°	439.7	385.2	329.0	274.4	223.3	179.0	148.3	127.8	117.6	115.9
35°	484.1	422.7	357.9	296.6	238.6	189.2	153.4	131.2	121.0	119.3
37.5°	525.0	458.5	385.2	317.0	254.0	199.4	160.2	136.4	124.4	122.7
40°	564.2	494.3	415.9	339.2	269.3	209.6	167.0	141.5	127.8	126.1
42.5°	601.7	528.4	444.9	359.6	282.9	219.9	173.9	146.6	132.9	131.2
45°	639.2	559.1	472.1	380.1	298.3	228.4	180.7	150.0	138.1	134.7
47.5°	673.3	589.7	497.7	400.5	311.9	238.6	185.8	155.1	141.5	139.8
50°	705.6	620.4	521.6	421.0	325.5	247.1	192.6	160.2	146.6	144.9
52.5°	736.3	647.7	547.1	441.5	337.5	255.7	199.4	165.3	151.7	150.0
55°	765.3	675.0	569.3	458.5	351.1	264.2	204.5	172.1	156.8	155.1
57.5°	796.0	700.5	591.4	477.2	363.0	272.7	211.4	177.3	161.9	160.2
60°	819.8	724.4	611.9	492.6	375.0	281.2	218.2	182.4	167.0	165.3
62.5°	847.1	746.5	632.3	509.6	386.9	289.8	225.0	189.2	173.9	172.1
65°	869.3	768.7	651.1	525.0	397.1	296.6	230.1	194.3	179.0	177.3
67.5°	893.1	790.9	669.8	540.3	409.1	305.1	236.9	201.1	185.8	184.1
70°	913.6	809.6	686.9	553.9	421.0	313.6	243.7	206.2	192.6	189.2
72.5°	932.3	830.1	703.9	567.6	434.6	320.4	250.6	213.1	197.7	196.0
75°	949.4	845.4	719.3	579.5	443.2	327.3	255.7	218.2	204.5	201.1
77.5°	966.4	860.7	732.9	591.4	451.7	335.8	262.5	225.0	209.6	207.9
80°	980.1	872.7	744.8	600.0	458.5	340.9	267.6	230.1	214.8	213.1
82.5°	990.3	882.9	755.1	608.5	465.3	346.0	271.0	233.5	218.2	216.5
85°	998.8	891.4	761.9	615.3	472.1	349.4	276.1	236.9	221.6	219.9
87.5°	1005.6	896.5	767.0	620.4	473.8	352.8	277.8	240.3	225.0	223.3
90°	1009.0	899.9	770.4	622.1	477.2	354.5	279.5	242.0	226.7	225.0
92.5°	1007.3	899.9	770.4	623.8	478.9	356.2	281.2	242.0	226.7	225.0
95°	1005.6	898.2	768.7	622.1	477.2	356.2	281.2	242.0	226.7	225.0
97.5°	998.8	893.1	765.3	618.7	475.5	354.5	277.8	240.3	225.0	223.3
100°	990.3	882.9	758.5	613.6	472.1	351.1	276.1	236.9	221.6	219.9
102.5°	976.6	872.7	748.3	606.8	465.3	346.0	271.0	233.5	218.2	216.5
105°	961.3	859.0	736.3	596.6	458.5	340.9	265.9	228.4	213.1	211.4
107.5°	946.0	840.3	721.0	584.6	450.0	334.1	260.8	223.3	207.9	206.2
110°	925.5	823.2	705.6	572.7	439.7	325.5	254.0	216.5	202.8	199.4



REPORT NUMBER: P274489

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	903.4	804.5	688.6	557.4	429.5	318.7	248.8	211.4	196.0	194.3
115°	881.2	782.3	669.8	543.7	414.2	310.2	242.0	206.2	190.9	189.2
117.5°	857.3	760.2	649.4	526.7	402.2	301.7	235.2	199.4	184.1	182.4
120°	831.8	738.0	628.9	509.6	390.3	293.2	228.4	194.3	179.0	177.3
122.5°	806.2	714.2	608.5	494.3	378.4	284.6	223.3	187.5	173.9	170.4
125°	778.9	688.6	586.3	475.5	366.5	277.8	216.5	182.4	168.7	167.0
127.5°	750.0	661.3	562.5	456.8	352.8	269.3	211.4	179.0	163.6	161.9
130°	719.3	635.8	540.3	439.7	340.9	260.8	206.2	173.9	158.5	156.8
132.5°	686.9	606.8	516.4	417.6	327.3	252.3	199.4	168.7	155.1	153.4
135°	652.8	577.8	490.9	397.1	313.6	243.7	194.3	165.3	151.7	150.0
137.5°	620.4	547.1	467.0	378.4	301.7	236.9	190.9	161.9	150.0	148.3
140°	582.9	514.7	439.7	359.6	288.1	228.4	185.8	158.5	146.6	144.9
142.5°	547.1	484.1	410.8	340.9	276.1	221.6	182.4	156.8	144.9	143.2
145°	513.0	453.4	386.9	323.8	264.2	214.8	177.3	155.1	144.9	143.2
147.5°	480.7	426.1	364.8	306.8	252.3	207.9	173.9	153.4	143.2	141.5
150°	448.3	393.7	340.9	289.8	242.0	201.1	172.1	151.7	143.2	141.5
152.5°	410.8	366.5	320.4	274.4	231.8	196.0	168.7	151.7	143.2	143.2
155°	381.8	340.9	300.0	259.1	223.3	192.6	168.7	153.4	144.9	144.9
157.5°	352.8	318.7	282.9	247.1	216.5	189.2	168.7	155.1	148.3	148.3
160°	325.5	296.6	265.9	236.9	209.6	187.5	168.7	156.8	151.7	150.0
162.5°	300.0	274.4	248.8	225.0	202.8	184.1	168.7	158.5	153.4	153.4
165°	274.4	254.0	233.5	214.8	197.7	180.7	168.7	161.9	156.8	156.8
167.5°	252.3	236.9	221.6	206.2	192.6	180.7	170.4	163.6	161.9	160.2
170°	235.2	223.3	211.4	199.4	189.2	179.0	172.1	168.7	165.3	165.3
172.5°	219.9	211.4	202.8	194.3	187.5	180.7	177.3	173.9	172.1	172.1
175°	209.6	204.5	199.4	194.3	190.9	185.8	184.1	182.4	180.7	180.7
177.5°	204.5	201.1	199.4	197.7	196.0	194.3	194.3	192.6	192.6	192.6
180°	204.5	204.5	204.5	204.5	204.5	204.5	204.5	204.5	204.5	204.5

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