

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: P256805

Luminaire Tested: **ULA-A7-D-U-ASYM-VMx-HSS-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256805
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-A7-D-U-ASYM-VMx-HSS-BK
Description: UTILITY LIGHT ACORN ASYMMETRIC W/ HSS
Light Source: (60) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5947.1 lumens
Efficiency: N/A
Efficacy: 105.8 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): 56.2
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



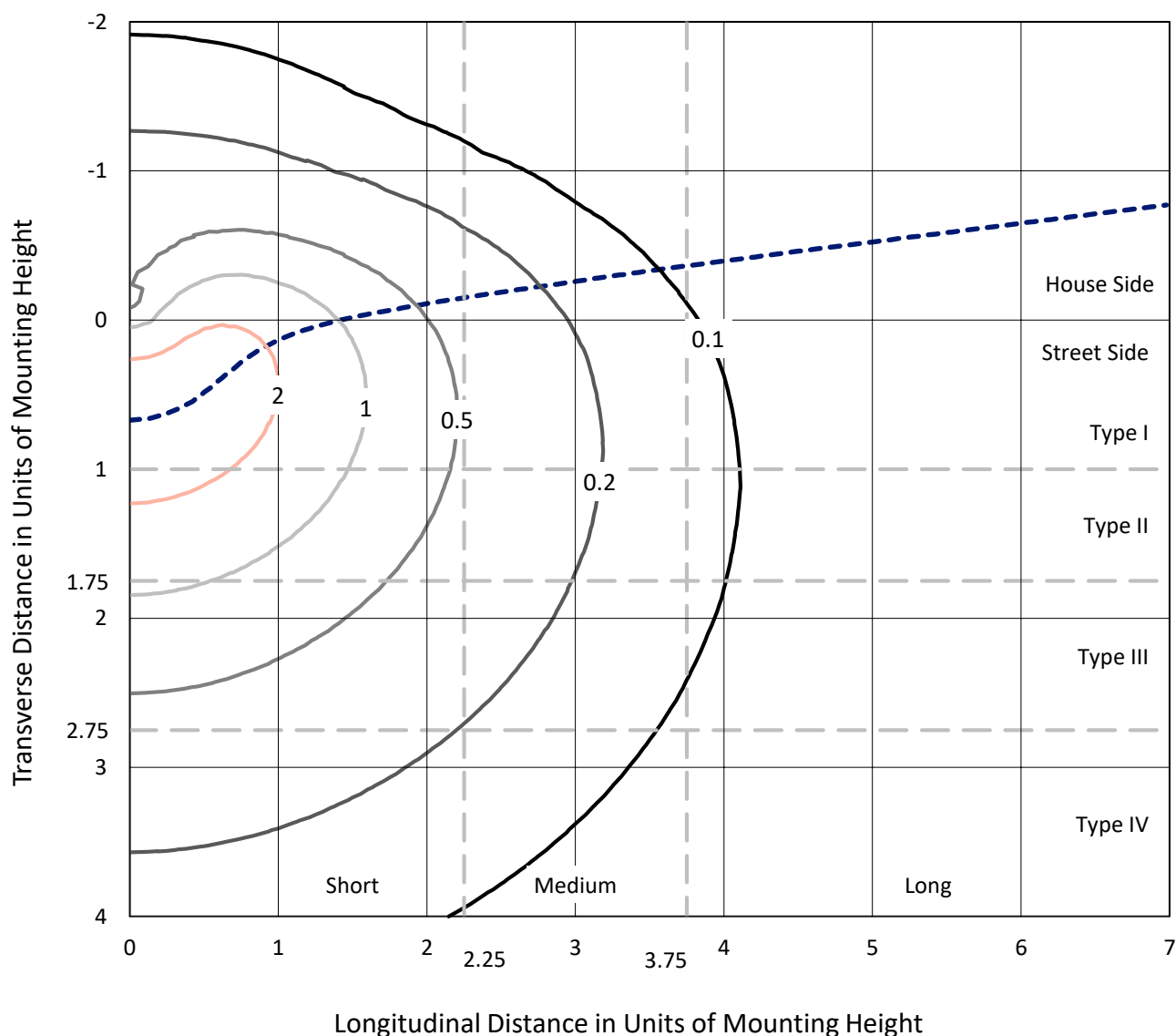
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

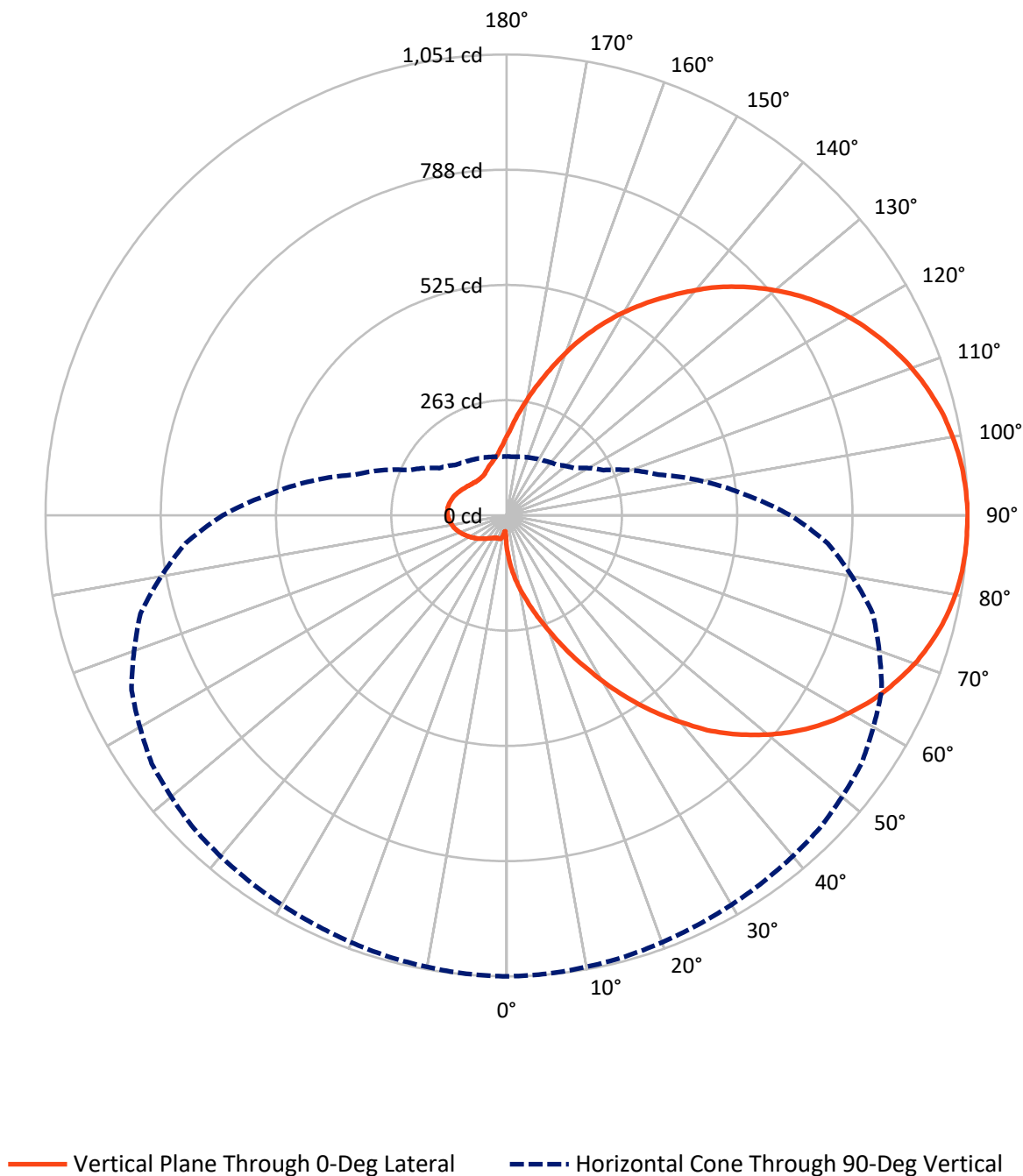


Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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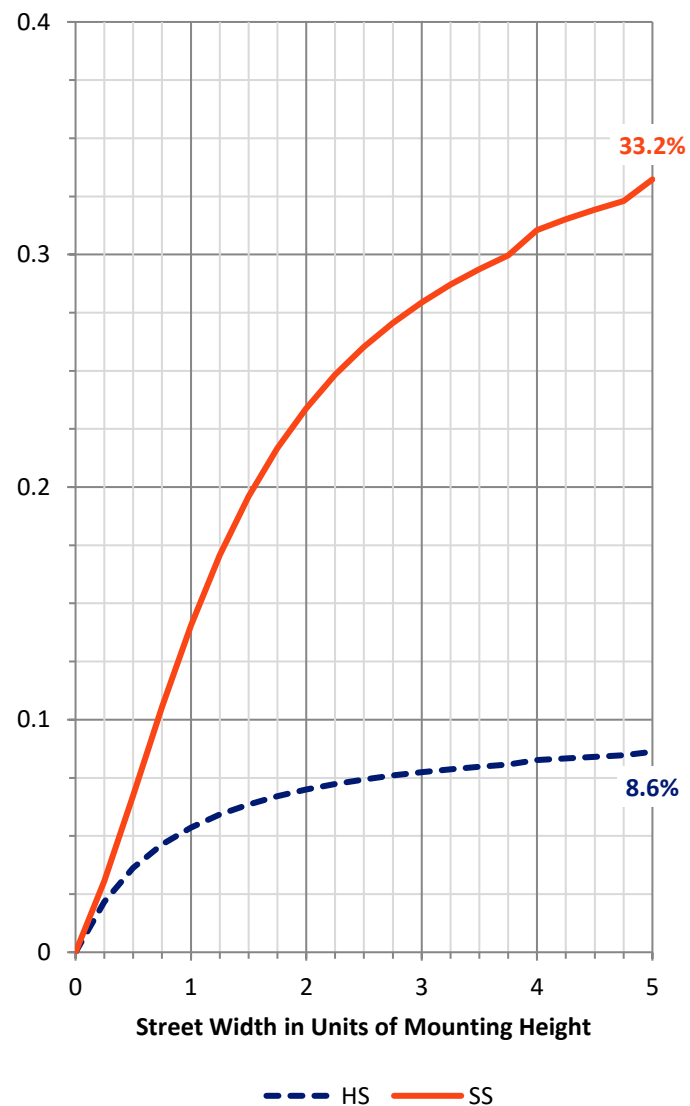
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	568.7	690.8	1259.4
	% Fixture	9.6	11.6	21.2
Street Side	Lumens	2306.5	2381.2	4687.7
	% Fixture	38.8	40.0	78.8
Total	Lumens	2875.2	3072.0	5947.1
	% Fixture	48.3	51.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.1
10°-20°	41.4	0.7
20°-30°	103.5	1.7
30°-40°	199.4	3.4
40°-50°	314.2	5.3
50°-60°	428.2	7.2
60°-70°	528.4	8.9
70°-80°	604.8	10.2
80°-90°	646.6	10.9
90°-100°	649.5	10.9
100°-110°	612.8	10.3
110°-120°	544.1	9.1
120°-130°	453.8	7.6
130°-140°	347.6	5.8
140°-150°	237.9	4.0
150°-160°	141.4	2.4
160°-170°	66.9	1.1
170°-180°	18.1	0.3
0°-90°	2875.2	48.3
0°-180°	5947.1	100.0

Coefficient of Utilization



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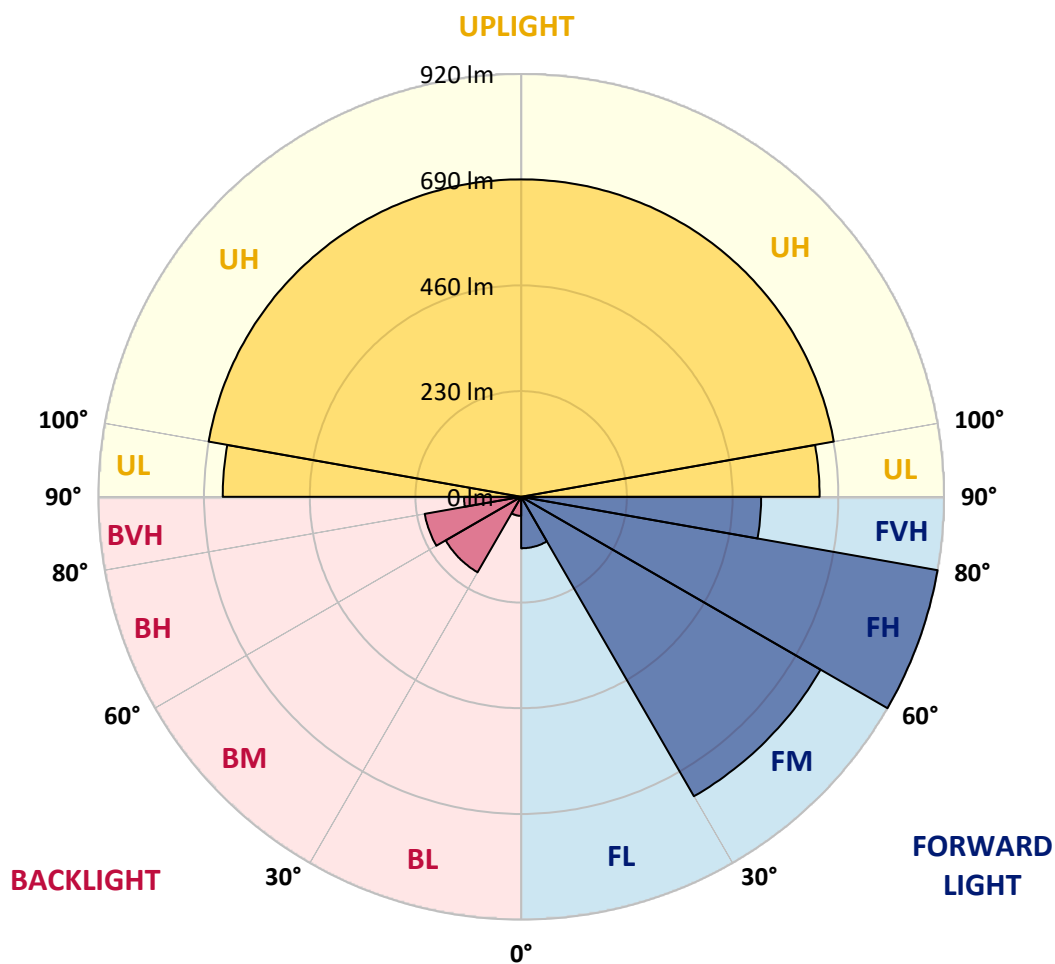
CATALOG NUMBER: ULA-A7-D-U-ASYM-VMx-HSS-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	112.0	1.9			
FM	(30°-60°)	752.3	12.6			
FH	(60°-80°)	920.1	15.5			G1/1800
FVH	(80°-90°)	522.1	8.8			G4/750
BL	(0°-30°)	41.6	0.7	B0/110		
BM	(30°-60°)	189.6	3.2	B0/220		
BH	(60°-80°)	213.1	3.6	B1/500		G1/500
BVH	(80°-90°)	124.5	2.1			G2/225
UL	(90°-100°)	649.5	10.9		U4/1000	
UH	(100°-180°)	690.8	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°	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
2.5°	98.2	96.5	96.5	95.6	95.6	92.1	88.7	85.3	81.0	78.4	76.6
5°	124.0	121.4	120.6	118.0	115.4	109.4	105.1	98.2	92.1	84.4	81.0
7.5°	148.1	146.4	143.8	140.4	137.8	130.0	124.0	115.4	107.6	99.0	95.6
10°	172.2	170.5	167.9	164.5	159.3	153.3	146.4	136.1	126.6	116.3	111.1
12.5°	195.5	194.6	192.9	189.5	185.2	178.3	170.5	159.3	148.1	134.3	127.5
15°	223.9	222.2	220.5	217.0	212.7	205.0	196.4	185.2	170.5	155.0	147.3
17.5°	252.3	250.6	250.6	248.0	242.9	236.0	226.5	212.7	194.6	175.7	165.3
20°	284.2	282.5	282.5	279.9	274.7	267.8	257.5	242.9	223.0	198.1	186.0
22.5°	320.4	318.6	318.6	316.1	310.9	304.0	292.8	276.4	253.2	226.5	210.1
25°	360.0	357.4	357.4	354.8	349.6	342.8	331.6	312.6	285.9	255.8	236.8
27.5°	398.7	398.7	397.0	397.0	391.8	385.0	372.9	352.2	322.1	285.9	263.5
30°	444.4	444.4	441.8	440.9	434.9	428.9	415.1	392.7	360.0	316.9	290.2
32.5°	489.2	489.2	486.6	485.7	478.8	472.8	458.2	434.0	397.0	347.1	317.8
35°	534.8	533.1	531.4	530.5	524.5	516.7	502.1	474.5	433.2	377.2	344.5
37.5°	578.7	578.7	577.0	574.4	569.2	559.8	542.6	513.3	469.3	407.3	369.5
40°	622.6	623.5	621.8	619.2	610.6	602.8	584.7	552.9	504.7	435.8	394.4
42.5°	669.1	666.6	664.0	661.4	652.8	643.3	624.4	590.8	538.2	463.3	417.7
45°	709.6	707.9	705.3	701.9	694.1	682.1	663.1	626.1	570.1	488.3	440.1
47.5°	747.5	746.7	742.3	738.0	731.2	718.2	697.6	659.7	600.3	513.3	459.9
50°	784.5	784.5	780.2	773.4	765.6	755.3	731.2	691.5	628.7	536.5	479.7
52.5°	819.0	818.1	812.1	804.4	797.5	786.3	763.0	721.7	655.4	558.1	496.9
55°	850.9	850.0	843.1	835.4	827.6	816.4	792.3	749.2	681.2	578.7	514.1
57.5°	880.1	879.3	872.4	862.9	855.2	844.0	819.0	774.2	704.5	597.7	530.5
60°	906.0	905.1	898.2	887.9	880.1	868.9	844.8	798.3	726.8	615.8	545.1
62.5°	931.8	930.1	922.3	912.0	902.5	892.2	868.1	821.6	748.4	633.0	558.9
65°	954.2	952.5	943.9	932.7	924.1	912.9	888.8	842.2	767.3	649.3	572.7
67.5°	974.0	972.3	963.7	951.6	943.0	931.8	908.6	861.2	784.5	664.0	584.7
70°	993.0	990.4	981.8	968.8	960.2	949.0	925.8	878.4	801.8	677.8	596.8
72.5°	1007.6	1005.9	996.4	983.5	974.0	964.5	941.3	893.9	816.4	690.7	608.0
75°	1021.4	1019.7	1010.2	996.4	987.8	977.5	955.1	907.7	828.5	701.9	617.5
77.5°	1031.7	1030.0	1020.5	1006.7	998.1	987.8	965.4	918.9	838.8	711.3	625.2
80°	1040.3	1037.7	1028.3	1015.3	1005.9	995.5	974.0	927.5	848.3	719.1	633.0
82.5°	1045.5	1043.8	1035.2	1022.2	1012.8	1001.6	980.0	934.4	854.3	726.0	638.1
85°	1048.9	1047.2	1038.6	1026.5	1016.2	1005.9	984.3	938.7	859.5	730.3	642.4
87.5°	1049.8	1048.9	1041.2	1029.1	1018.8	1007.6	986.1	941.3	862.9	733.7	645.0
90°	1050.7	1048.9	1041.2	1030.0	1019.7	1008.5	986.9	943.0	863.8	734.6	646.8
92.5°	1048.1	1047.2	1040.3	1029.1	1019.7	1006.7	985.2	942.1	863.8	735.5	647.6
95°	1044.6	1042.9	1037.7	1026.5	1016.2	1004.2	981.8	939.6	862.1	734.6	646.8
97.5°	1038.6	1037.7	1032.6	1021.4	1011.9	999.0	976.6	934.4	857.7	731.2	645.0
100°	1030.0	1029.1	1024.0	1013.6	1003.3	991.2	968.8	926.6	850.9	726.0	640.7
102.5°	1021.4	1019.7	1014.5	1004.2	994.7	982.6	960.2	918.9	843.1	720.0	636.4
105°	1008.5	1006.7	1002.4	993.0	982.6	970.6	948.2	907.7	831.9	712.2	629.5
107.5°	994.7	993.0	988.6	979.2	968.8	957.6	936.1	895.6	820.7	703.6	622.6
110°	979.2	975.7	972.3	962.8	953.3	943.0	921.5	881.9	809.5	693.3	614.9



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CATALOG NUMBER: ULA-A7-D-U-ASYM-VMx-HSS-BK

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	961.1	959.4	955.1	946.5	936.1	926.6	905.1	866.4	794.0	682.1	607.1
115°	941.3	939.6	935.3	926.6	918.0	908.6	888.8	848.3	779.4	670.9	598.5
117.5°	920.6	918.9	913.7	906.0	898.2	889.6	868.9	831.1	763.0	658.0	589.1
120°	898.2	896.5	892.2	885.3	877.6	868.9	849.1	811.2	745.8	645.0	578.7
122.5°	874.1	873.2	868.9	861.2	854.3	847.4	828.5	791.4	727.7	630.4	568.4
125°	849.1	847.4	843.1	836.2	831.1	823.3	804.4	768.2	707.9	614.9	556.3
127.5°	821.6	820.7	816.4	810.4	805.2	798.3	779.4	744.9	686.4	598.5	543.4
130°	792.3	792.3	786.3	782.8	778.5	770.8	752.7	719.1	663.1	579.6	528.8
132.5°	762.2	761.3	757.8	752.7	749.2	741.5	724.3	691.5	638.1	560.6	513.3
135°	731.2	730.3	725.1	721.7	719.1	711.3	693.3	662.3	612.3	540.0	496.0
137.5°	698.4	698.4	693.3	690.7	687.2	678.6	661.4	631.3	584.7	517.6	477.1
140°	663.1	663.1	659.7	655.4	652.8	643.3	626.9	597.7	554.6	492.6	456.4
142.5°	628.7	628.7	625.2	620.9	617.5	608.0	591.6	564.1	524.5	468.5	435.8
145°	595.1	595.1	592.5	588.2	583.9	574.4	558.1	531.4	495.2	443.5	415.1
147.5°	561.5	561.5	558.9	554.6	550.3	540.8	524.5	499.5	465.9	420.3	393.6
150°	527.9	527.9	524.5	520.2	516.7	506.4	490.9	466.8	436.6	394.4	371.2
152.5°	493.5	493.5	490.0	486.6	481.4	471.9	456.4	435.8	406.5	369.5	348.8
155°	458.2	456.4	454.7	451.3	446.1	436.6	422.0	403.0	376.3	344.5	326.4
157.5°	423.7	422.0	419.4	416.8	411.6	403.0	389.3	371.2	347.9	320.4	304.9
160°	386.7	388.4	385.8	383.2	378.1	368.6	356.5	341.0	320.4	296.3	283.3
162.5°	352.2	353.1	351.4	348.8	344.5	335.0	324.7	310.9	292.8	272.1	260.9
165°	319.5	320.4	318.6	316.1	311.8	303.1	294.5	281.6	266.1	249.7	240.3
167.5°	290.2	291.9	288.5	285.9	282.5	274.7	267.0	256.6	242.9	229.9	222.2
170°	261.8	264.4	260.9	259.2	255.8	249.7	242.0	234.2	223.0	211.9	205.0
172.5°	236.8	238.6	236.0	234.2	230.8	225.6	220.5	213.6	205.0	196.4	192.0
175°	213.6	213.6	212.7	209.3	208.4	205.0	200.7	196.4	192.0	186.0	182.6
177.5°	192.0	192.0	192.0	191.2	190.3	188.6	186.9	184.3	181.7	179.1	177.4
180°	176.5	176.5	176.5	176.5	176.5	176.5	176.5	176.5	176.5	176.5	176.5



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CATALOG NUMBER: ULA-A7-D-U-ASYM-VMx-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
2.5°	74.9	69.8	65.5	61.1	56.8	54.3	49.9	49.1	48.2	47.4
5°	77.5	70.6	62.9	56.8	50.8	44.8	40.5	37.9	36.2	36.2
7.5°	90.4	82.7	73.2	64.6	57.7	50.8	45.6	41.3	38.8	37.9
10°	105.1	94.7	83.5	73.2	65.5	57.7	50.8	46.5	44.8	44.8
12.5°	121.4	108.5	94.7	81.8	72.3	62.9	56.0	52.5	50.8	50.8
15°	137.8	121.4	105.1	89.6	77.5	68.0	61.1	56.8	55.1	55.1
17.5°	155.0	135.2	114.5	96.5	82.7	71.5	63.7	58.6	56.0	56.0
20°	173.1	148.1	124.0	102.5	86.1	73.2	64.6	58.6	56.0	55.1
22.5°	193.8	162.8	134.3	109.4	90.4	75.8	65.5	59.4	56.0	56.0
25°	217.0	178.3	144.7	115.4	93.9	77.5	66.3	59.4	56.8	56.0
27.5°	241.1	194.6	155.0	122.3	97.3	80.1	68.0	61.1	57.7	57.7
30°	265.2	211.0	164.5	127.5	100.8	81.8	69.8	62.9	59.4	58.6
32.5°	288.5	227.4	173.1	132.6	104.2	84.4	71.5	64.6	61.1	61.1
35°	309.2	240.3	180.9	136.1	106.8	87.0	74.1	66.3	62.9	62.9
37.5°	330.7	253.2	186.9	139.5	108.5	88.7	75.8	68.9	65.5	65.5
40°	350.5	264.4	192.0	142.1	110.2	90.4	78.4	71.5	68.0	68.0
42.5°	369.5	274.7	196.4	144.7	112.8	93.0	81.0	74.1	71.5	71.5
45°	386.7	282.5	199.8	146.4	114.5	95.6	84.4	77.5	74.9	74.1
47.5°	402.2	290.2	202.4	148.1	116.3	97.3	87.0	81.0	77.5	77.5
50°	416.8	297.1	205.0	149.0	118.0	99.9	90.4	84.4	81.8	81.8
52.5°	430.6	303.1	206.7	150.7	119.7	102.5	93.0	87.8	85.3	85.3
55°	443.5	309.2	210.1	152.4	122.3	105.9	96.5	91.3	88.7	88.7
57.5°	455.6	314.3	212.7	154.2	124.0	109.4	100.8	95.6	93.0	93.0
60°	466.8	318.6	214.4	155.9	126.6	112.8	104.2	99.0	96.5	96.5
62.5°	478.0	323.8	216.2	158.5	130.0	116.3	108.5	103.3	100.8	100.8
65°	488.3	328.1	218.7	161.0	132.6	119.7	112.0	107.6	105.1	104.2
67.5°	496.9	331.6	221.3	163.6	136.1	123.2	116.3	112.0	108.5	108.5
70°	505.5	335.9	224.8	166.2	139.5	127.5	119.7	115.4	112.8	112.0
72.5°	514.1	340.2	227.4	168.8	143.0	130.9	124.0	118.8	116.3	116.3
75°	521.9	343.6	230.8	172.2	146.4	135.2	127.5	123.2	119.7	119.7
77.5°	527.9	347.1	233.4	174.8	149.8	137.8	130.9	126.6	123.2	123.2
80°	533.1	349.6	236.0	178.3	153.3	141.2	134.3	129.2	126.6	125.7
82.5°	538.2	352.2	237.7	180.9	155.9	144.7	136.9	132.6	129.2	128.3
85°	540.8	354.8	240.3	183.4	158.5	147.3	139.5	134.3	131.8	130.9
87.5°	543.4	356.5	242.0	185.2	161.0	149.0	142.1	136.9	133.5	132.6
90°	545.1	358.3	243.7	187.7	162.8	151.6	143.8	137.8	134.3	134.3
92.5°	546.0	359.1	245.4	188.6	164.5	152.4	144.7	138.7	135.2	135.2
95°	546.0	360.0	247.2	190.3	166.2	153.3	145.5	139.5	136.1	135.2
97.5°	545.1	360.8	248.0	192.0	167.1	153.3	145.5	139.5	136.1	135.2
100°	542.6	360.0	249.7	192.9	167.1	153.3	144.7	138.7	135.2	134.3
102.5°	540.0	360.8	251.5	194.6	167.9	153.3	143.8	137.8	134.3	133.5
105°	535.7	361.7	253.2	195.5	167.9	152.4	143.0	136.1	132.6	131.8
107.5°	531.4	361.7	254.9	196.4	167.9	151.6	141.2	134.3	130.9	130.0
110°	527.0	363.4	257.5	198.9	167.9	150.7	139.5	132.6	128.3	128.3



REPORT NUMBER: P256805

CATALOG NUMBER: ULA-A7-D-U-ASYM-VMx-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	522.7	364.3	260.9	200.7	168.8	149.0	136.9	130.0	125.7	125.7
115°	517.6	366.0	264.4	202.4	168.8	148.1	135.2	127.5	123.2	123.2
117.5°	512.4	367.7	267.0	205.0	169.7	147.3	133.5	124.9	120.6	120.6
120°	506.4	369.5	270.4	207.5	170.5	146.4	131.8	122.3	118.8	118.0
122.5°	500.4	369.5	273.9	211.9	171.4	145.5	130.0	120.6	116.3	115.4
125°	492.6	369.5	276.4	213.6	172.2	145.5	128.3	118.0	113.7	112.8
127.5°	484.0	368.6	279.0	215.3	172.2	144.7	126.6	116.3	111.1	111.1
130°	473.7	366.0	279.9	217.0	173.1	143.8	125.7	114.5	109.4	108.5
132.5°	463.3	362.6	279.9	218.7	174.0	143.8	124.0	112.8	107.6	106.8
135°	448.7	356.5	278.2	218.7	174.0	143.8	123.2	112.0	105.9	105.9
137.5°	434.0	349.6	275.6	217.0	174.0	143.0	123.2	111.1	105.1	104.2
140°	417.7	340.2	271.3	216.2	173.1	143.0	122.3	110.2	104.2	103.3
142.5°	400.5	330.7	267.0	214.4	173.1	143.0	122.3	110.2	104.2	103.3
145°	383.2	320.4	261.8	211.9	171.4	143.0	122.3	110.2	104.2	103.3
147.5°	365.1	309.2	255.8	207.5	170.5	143.0	123.2	110.2	105.1	104.2
150°	346.2	295.4	248.0	203.2	168.8	142.1	123.2	111.1	105.9	105.1
152.5°	327.3	281.6	238.6	198.1	167.1	142.1	124.0	112.8	107.6	106.8
155°	306.6	267.8	229.9	193.8	165.3	143.0	126.6	115.4	111.1	110.2
157.5°	287.6	254.1	221.3	189.5	164.5	143.8	129.2	118.8	114.5	113.7
160°	268.7	240.3	211.9	185.2	162.8	144.7	130.9	122.3	118.0	118.0
162.5°	249.7	225.6	200.7	179.1	160.2	144.7	133.5	125.7	121.4	121.4
165°	230.8	210.1	191.2	173.1	157.6	145.5	135.2	129.2	125.7	124.9
167.5°	214.4	198.1	182.6	168.8	155.9	146.4	137.8	132.6	130.0	130.0
170°	198.9	187.7	175.7	165.3	155.9	148.1	141.2	137.8	135.2	135.2
172.5°	187.7	180.0	171.4	163.6	156.7	150.7	146.4	143.8	142.1	141.2
175°	180.0	174.8	168.8	164.5	160.2	155.9	153.3	152.4	151.6	151.6
177.5°	176.5	173.1	170.5	167.9	166.2	164.5	163.6	162.8	162.8	161.9
180°	176.5	176.5	176.5	176.5	176.5	176.5	176.5	176.5	176.5	176.5

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