

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: P256804

Luminaire Tested: **ULA-A7-D-U-ASYM-VMx-7030-HSS-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256804
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-7030-HSS-BK
Description: UTILITY LIGHT ACORN ASYMMETRIC W/ HSS
Light Source: (60) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5744.6 lumens
Efficiency: N/A
Efficacy: 102.2 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



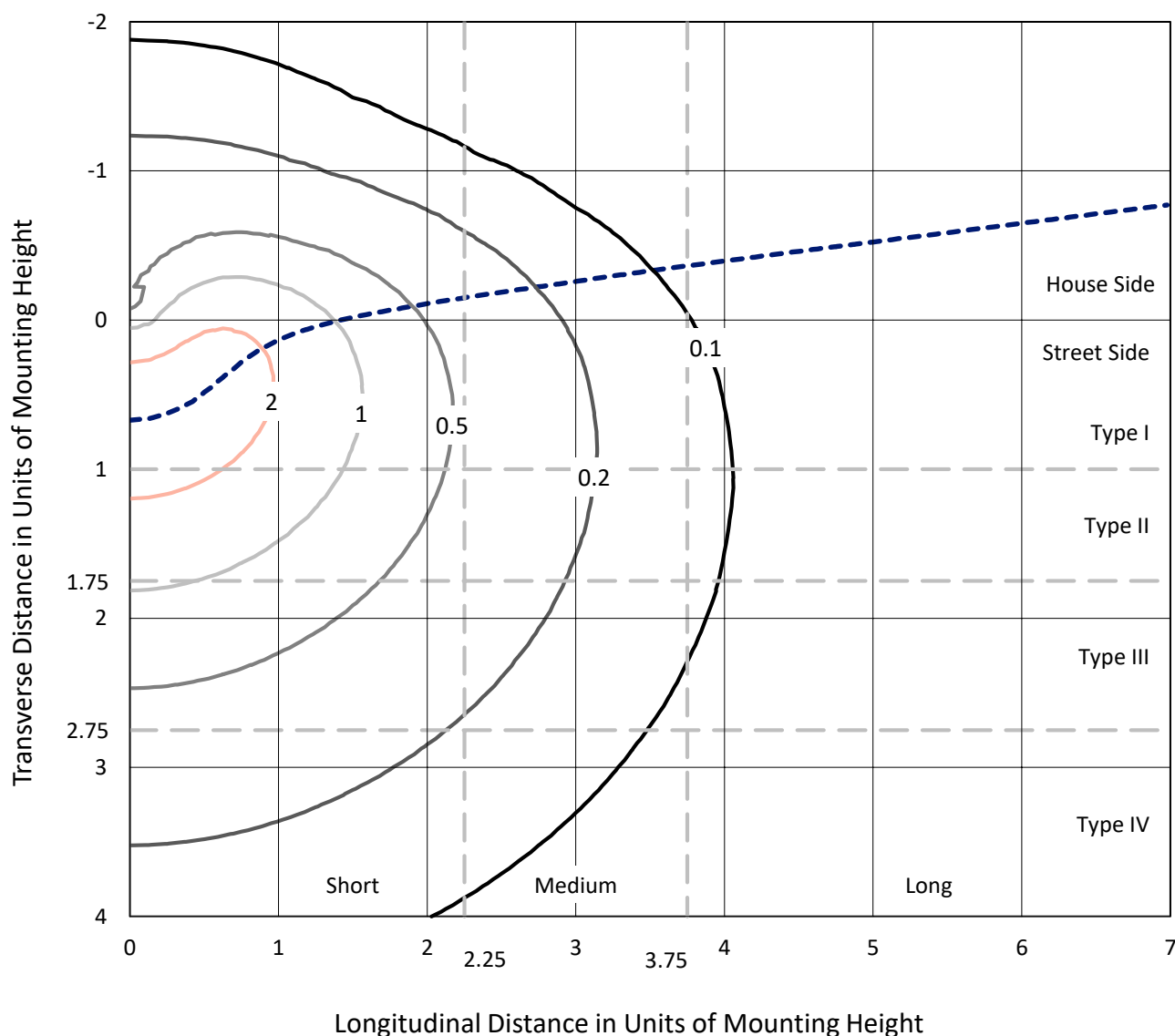
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

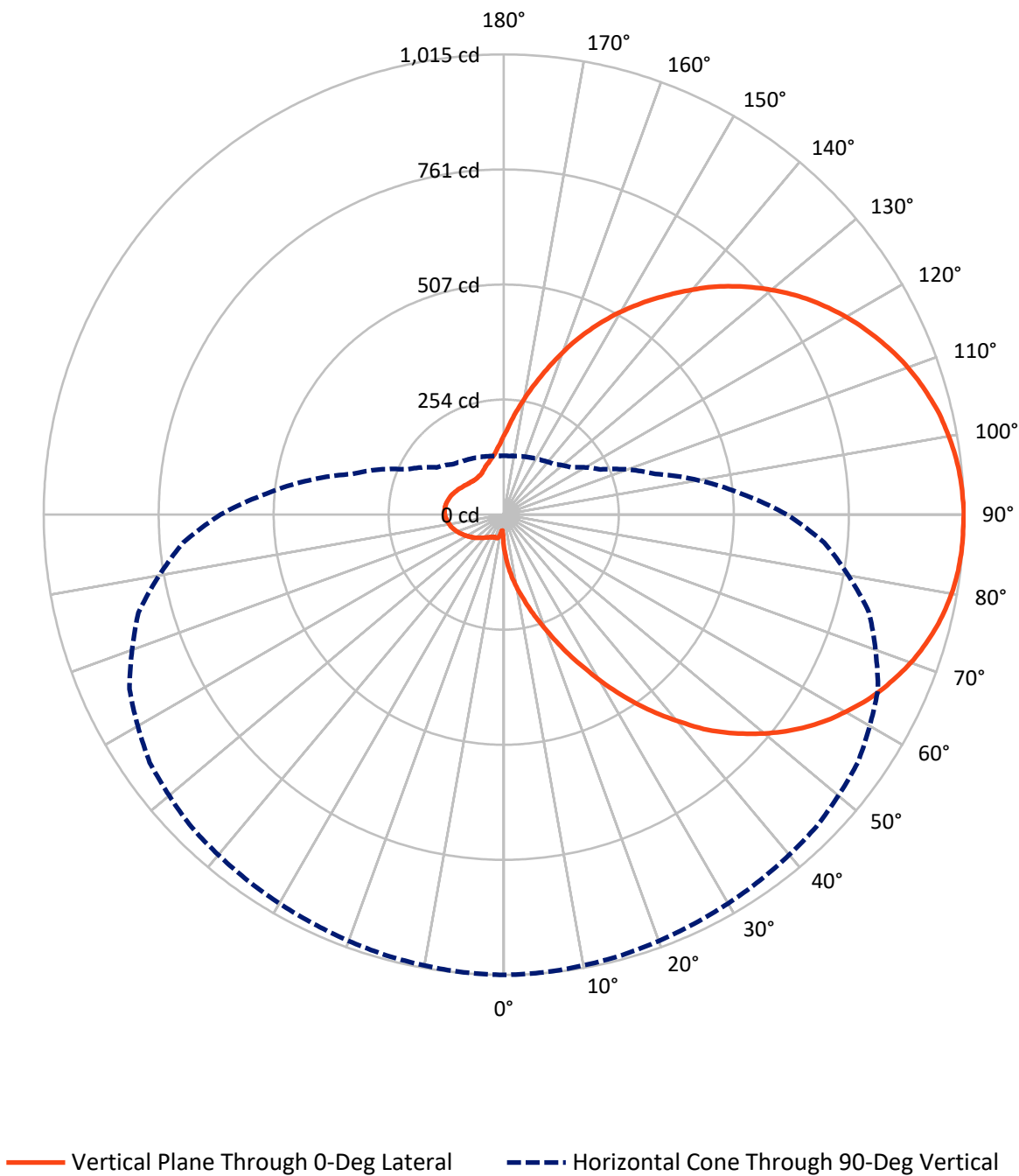


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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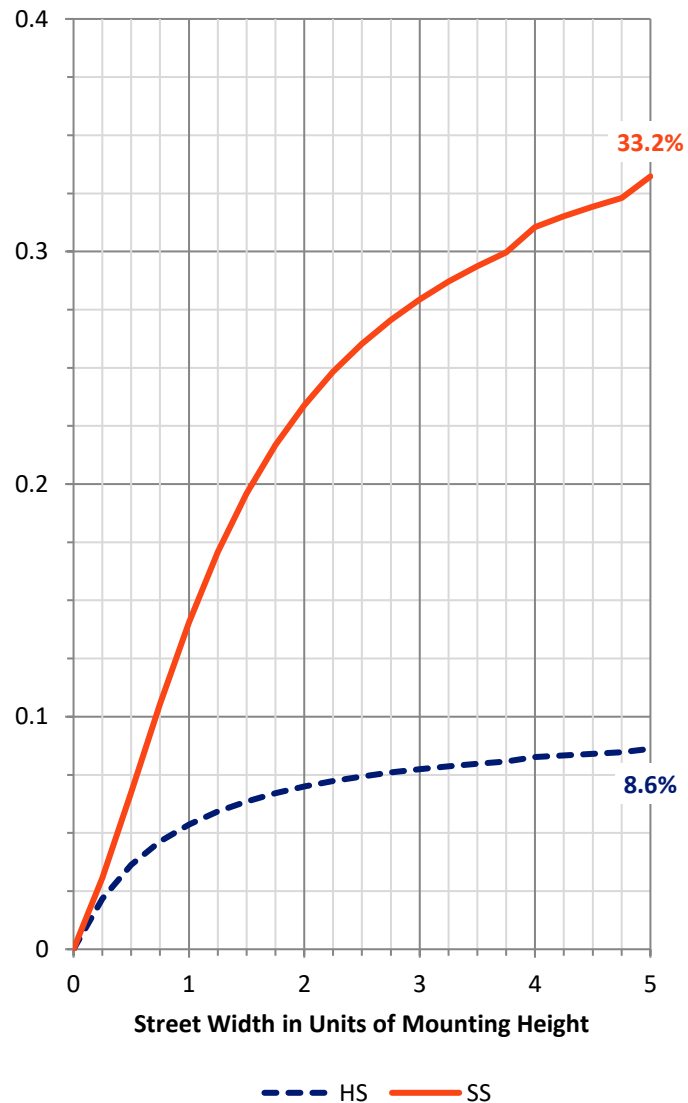
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	549.3	667.2	1216.5
	% Fixture	9.6	11.6	21.2
Street Side	Lumens	2228.0	2300.1	4528.1
	% Fixture	38.8	40.0	78.8
Total	Lumens	2777.3	2967.3	5744.6
	% Fixture	48.3	51.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.1
10°-20°	40.0	0.7
20°-30°	100.0	1.7
30°-40°	192.6	3.4
40°-50°	303.5	5.3
50°-60°	413.6	7.2
60°-70°	510.4	8.9
70°-80°	584.2	10.2
80°-90°	624.6	10.9
90°-100°	627.3	10.9
100°-110°	591.9	10.3
110°-120°	525.6	9.1
120°-130°	438.3	7.6
130°-140°	335.8	5.8
140°-150°	229.7	4.0
150°-160°	136.5	2.4
160°-170°	64.6	1.1
170°-180°	17.5	0.3
0°-90°	2777.3	48.3
0°-180°	5744.6	100.0

Coefficient of Utilization



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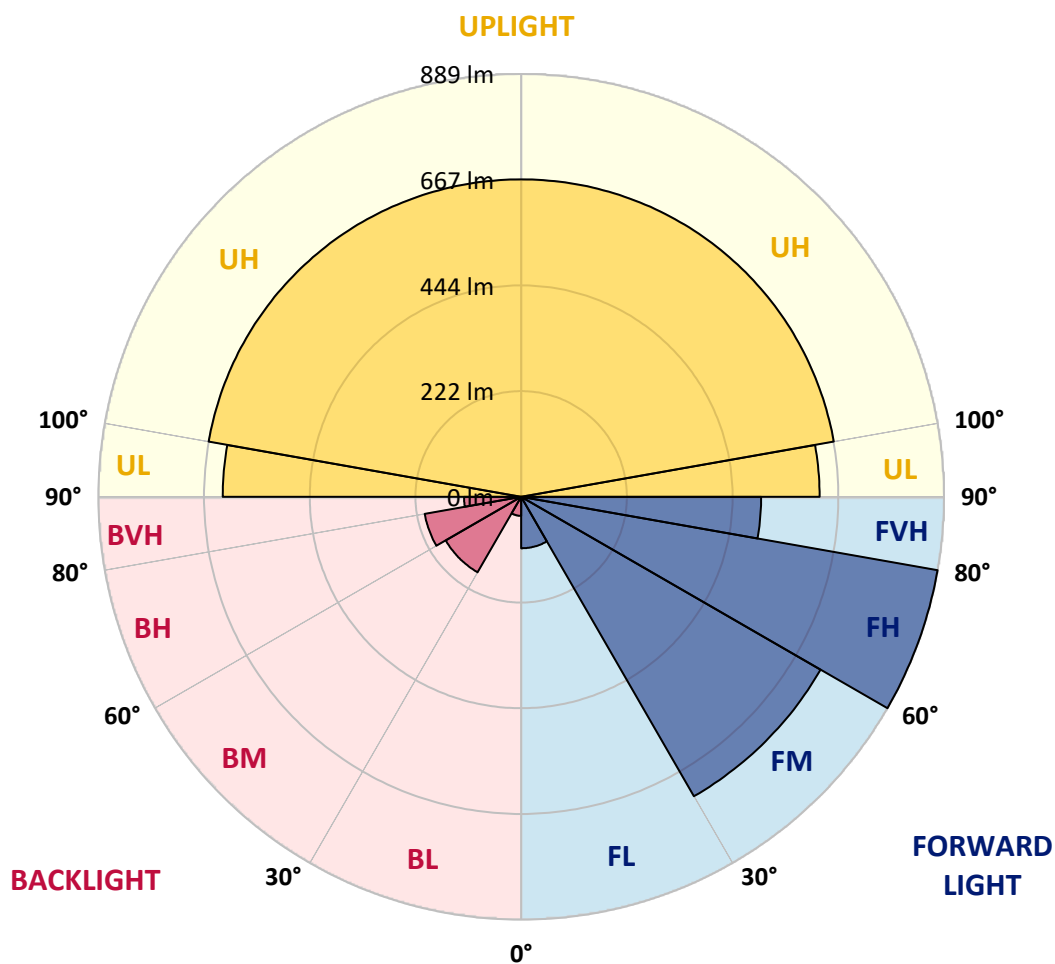
CATALOG NUMBER: ULA-A7-D-U-ASYM-VMx-7030-HSS-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	108.2	1.9			
FM	(30°-60°)	726.7	12.6			
FH	(60°-80°)	888.8	15.5			G1/1800
FVH	(80°-90°)	504.3	8.8			G4/750
BL	(0°-30°)	40.1	0.7	B0/110		
BM	(30°-60°)	183.1	3.2	B0/220		
BH	(60°-80°)	205.8	3.6	B1/500		G1/500
BVH	(80°-90°)	120.2	2.1			G2/225
UL	(90°-100°)	627.3	10.9		U4/1000	
UH	(100°-180°)	667.2	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°	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
2.5°	94.8	93.2	93.2	92.3	92.3	89.0	85.7	82.4	78.2	75.7	74.0
5°	119.8	117.3	116.5	114.0	111.5	105.6	101.5	94.8	89.0	81.5	78.2
7.5°	143.1	141.4	138.9	135.6	133.1	125.6	119.8	111.5	104.0	95.7	92.3
10°	166.4	164.7	162.2	158.9	153.9	148.1	141.4	131.4	122.3	112.3	107.3
12.5°	188.8	188.0	186.3	183.0	178.9	172.2	164.7	153.9	143.1	129.8	123.1
15°	216.3	214.6	213.0	209.6	205.5	198.0	189.7	178.9	164.7	149.7	142.2
17.5°	243.7	242.1	242.1	239.6	234.6	227.9	218.8	205.5	188.0	169.7	159.7
20°	274.5	272.9	272.9	270.4	265.4	258.7	248.7	234.6	215.5	191.3	179.7
22.5°	309.5	307.8	307.8	305.3	300.3	293.6	282.8	267.0	244.6	218.8	203.0
25°	347.7	345.2	345.2	342.7	337.7	331.1	320.3	302.0	276.2	247.1	228.8
27.5°	385.2	385.2	383.5	383.5	378.5	371.8	360.2	340.2	311.1	276.2	254.6
30°	429.2	429.2	426.7	425.9	420.1	414.3	401.0	379.3	347.7	306.1	280.3
32.5°	472.5	472.5	470.0	469.2	462.5	456.7	442.6	419.3	383.5	335.2	307.0
35°	516.6	514.9	513.3	512.4	506.6	499.1	485.0	458.4	418.4	364.4	332.7
37.5°	559.0	559.0	557.4	554.9	549.9	540.7	524.1	495.8	453.4	393.5	356.9
40°	601.4	602.3	600.6	598.1	589.8	582.3	564.8	534.1	487.5	420.9	381.0
42.5°	646.4	643.9	641.4	638.9	630.6	621.4	603.1	570.7	519.9	447.5	403.5
45°	685.5	683.8	681.3	678.0	670.5	658.8	640.5	604.8	550.7	471.7	425.1
47.5°	722.1	721.2	717.1	712.9	706.3	693.8	673.8	637.2	579.8	495.8	444.2
50°	757.8	757.8	753.7	747.0	739.5	729.5	706.3	668.0	607.3	518.3	463.4
52.5°	791.1	790.3	784.5	777.0	770.3	759.5	737.0	697.1	633.1	539.1	480.0
55°	821.9	821.1	814.4	806.9	799.4	788.6	765.3	723.7	658.0	559.0	496.6
57.5°	850.2	849.3	842.7	833.5	826.0	815.2	791.1	747.8	680.5	577.3	512.4
60°	875.1	874.3	867.6	857.7	850.2	839.4	816.1	771.1	702.1	594.8	526.6
62.5°	900.1	898.4	890.9	880.9	871.8	861.8	838.5	793.6	722.9	611.4	539.9
65°	921.7	920.0	911.7	900.9	892.6	881.8	858.5	813.6	741.2	627.2	553.2
67.5°	940.8	939.2	930.9	919.2	910.9	900.1	877.6	831.9	757.8	641.4	564.8
70°	959.1	956.6	948.3	935.9	927.5	916.7	894.3	848.5	774.5	654.7	576.5
72.5°	973.3	971.6	962.5	950.0	940.8	931.7	909.2	863.5	788.6	667.2	587.3
75°	986.6	984.9	975.8	962.5	954.2	944.2	922.5	876.8	800.3	678.0	596.4
77.5°	996.6	994.9	985.8	972.5	964.1	954.2	932.5	887.6	810.2	687.1	603.9
80°	1004.9	1002.4	993.3	980.8	971.6	961.6	940.8	895.9	819.4	694.6	611.4
82.5°	1009.9	1008.2	999.9	987.4	978.3	967.5	946.7	902.6	825.2	701.3	616.4
85°	1013.2	1011.6	1003.2	991.6	981.6	971.6	950.8	906.7	830.2	705.4	620.6
87.5°	1014.0	1013.2	1005.7	994.1	984.1	973.3	952.5	909.2	833.5	708.8	623.1
90°	1014.9	1013.2	1005.7	994.9	984.9	974.1	953.3	910.9	834.4	709.6	624.7
92.5°	1012.4	1011.6	1004.9	994.1	984.9	972.5	951.7	910.1	834.4	710.4	625.6
95°	1009.1	1007.4	1002.4	991.6	981.6	970.0	948.3	907.6	832.7	709.6	624.7
97.5°	1003.2	1002.4	997.4	986.6	977.4	965.0	943.3	902.6	828.5	706.3	623.1
100°	994.9	994.1	989.1	979.1	969.1	957.5	935.9	895.1	821.9	701.3	618.9
102.5°	986.6	984.9	979.9	970.0	960.8	949.2	927.5	887.6	814.4	695.4	614.8
105°	974.1	972.5	968.3	959.1	949.2	937.5	915.9	876.8	803.6	688.0	608.1
107.5°	960.8	959.1	955.0	945.8	935.9	925.0	904.2	865.1	792.8	679.6	601.4
110°	945.8	942.5	939.2	930.0	920.9	910.9	890.1	851.8	782.0	669.7	594.0



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CATALOG NUMBER: ULA-A7-D-U-ASYM-VMx-7030-HSS-BK

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	928.4	926.7	922.5	914.2	904.2	895.1	874.3	836.9	767.0	658.8	586.5
115°	909.2	907.6	903.4	895.1	886.8	877.6	858.5	819.4	752.8	648.0	578.1
117.5°	889.3	887.6	882.6	875.1	867.6	859.3	839.4	802.8	737.0	635.5	569.0
120°	867.6	866.0	861.8	855.2	847.7	839.4	820.2	783.6	720.4	623.1	559.0
122.5°	844.3	843.5	839.4	831.9	825.2	818.6	800.3	764.5	702.9	608.9	549.0
125°	820.2	818.6	814.4	807.7	802.8	795.3	777.0	742.0	683.8	594.0	537.4
127.5°	793.6	792.8	788.6	782.8	777.8	771.1	752.8	719.6	663.0	578.1	524.9
130°	765.3	765.3	759.5	756.2	752.0	744.5	727.1	694.6	640.5	559.8	510.8
132.5°	736.2	735.4	732.0	727.1	723.7	716.2	699.6	668.0	616.4	541.5	495.8
135°	706.3	705.4	700.4	697.1	694.6	687.1	669.7	639.7	591.5	521.6	479.2
137.5°	674.6	674.6	669.7	667.2	663.8	655.5	638.9	609.8	564.8	500.0	460.9
140°	640.5	640.5	637.2	633.1	630.6	621.4	605.6	577.3	535.7	475.8	440.9
142.5°	607.3	607.3	603.9	599.8	596.4	587.3	571.5	544.9	506.6	452.5	420.9
145°	574.8	574.8	572.3	568.2	564.0	554.9	539.1	513.3	478.3	428.4	401.0
147.5°	542.4	542.4	539.9	535.7	531.6	522.4	506.6	482.5	450.0	406.0	380.2
150°	509.9	509.9	506.6	502.4	499.1	489.1	474.2	450.9	421.8	381.0	358.5
152.5°	476.7	476.7	473.3	470.0	465.0	455.9	440.9	420.9	392.6	356.9	336.9
155°	442.6	440.9	439.2	435.9	430.9	421.8	407.6	389.3	363.5	332.7	315.3
157.5°	409.3	407.6	405.1	402.6	397.6	389.3	376.0	358.5	336.1	309.5	294.5
160°	373.5	375.2	372.7	370.2	365.2	356.0	344.4	329.4	309.5	286.2	273.7
162.5°	340.2	341.1	339.4	336.9	332.7	323.6	313.6	300.3	282.8	262.9	252.1
165°	308.6	309.5	307.8	305.3	301.1	292.8	284.5	272.0	257.0	241.2	232.1
167.5°	280.3	282.0	278.7	276.2	272.9	265.4	257.9	247.9	234.6	222.1	214.6
170°	252.9	255.4	252.1	250.4	247.1	241.2	233.8	226.3	215.5	204.6	198.0
172.5°	228.8	230.4	227.9	226.3	222.9	217.9	213.0	206.3	198.0	189.7	185.5
175°	206.3	206.3	205.5	202.1	201.3	198.0	193.8	189.7	185.5	179.7	176.4
177.5°	185.5	185.5	185.5	184.7	183.8	182.2	180.5	178.0	175.5	173.0	171.4
180°	170.5	170.5	170.5	170.5	170.5	170.5	170.5	170.5	170.5	170.5	170.5



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CATALOG NUMBER: ULA-A7-D-U-ASYM-VMx-7030-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
2.5°	72.4	67.4	63.2	59.1	54.9	52.4	48.2	47.4	46.6	45.8
5°	74.9	68.2	60.7	54.9	49.1	43.3	39.1	36.6	34.9	34.9
7.5°	87.3	79.9	70.7	62.4	55.7	49.1	44.1	39.9	37.4	36.6
10°	101.5	91.5	80.7	70.7	63.2	55.7	49.1	44.9	43.3	43.3
12.5°	117.3	104.8	91.5	79.0	69.9	60.7	54.1	50.7	49.1	49.1
15°	133.1	117.3	101.5	86.5	74.9	65.7	59.1	54.9	53.2	53.2
17.5°	149.7	130.6	110.6	93.2	79.9	69.0	61.6	56.6	54.1	54.1
20°	167.2	143.1	119.8	99.0	83.2	70.7	62.4	56.6	54.1	53.2
22.5°	187.2	157.2	129.8	105.6	87.3	73.2	63.2	57.4	54.1	54.1
25°	209.6	172.2	139.8	111.5	90.7	74.9	64.1	57.4	54.9	54.1
27.5°	232.9	188.0	149.7	118.1	94.0	77.4	65.7	59.1	55.7	55.7
30°	256.2	203.8	158.9	123.1	97.3	79.0	67.4	60.7	57.4	56.6
32.5°	278.7	219.6	167.2	128.1	100.7	81.5	69.0	62.4	59.1	59.1
35°	298.6	232.1	174.7	131.4	103.2	84.0	71.5	64.1	60.7	60.7
37.5°	319.4	244.6	180.5	134.8	104.8	85.7	73.2	66.5	63.2	63.2
40°	338.6	255.4	185.5	137.3	106.5	87.3	75.7	69.0	65.7	65.7
42.5°	356.9	265.4	189.7	139.8	109.0	89.8	78.2	71.5	69.0	69.0
45°	373.5	272.9	193.0	141.4	110.6	92.3	81.5	74.9	72.4	71.5
47.5°	388.5	280.3	195.5	143.1	112.3	94.0	84.0	78.2	74.9	74.9
50°	402.6	287.0	198.0	143.9	114.0	96.5	87.3	81.5	79.0	79.0
52.5°	415.9	292.8	199.6	145.6	115.6	99.0	89.8	84.9	82.4	82.4
55°	428.4	298.6	203.0	147.2	118.1	102.3	93.2	88.2	85.7	85.7
57.5°	440.1	303.6	205.5	148.9	119.8	105.6	97.3	92.3	89.8	89.8
60°	450.9	307.8	207.1	150.6	122.3	109.0	100.7	95.7	93.2	93.2
62.5°	461.7	312.8	208.8	153.1	125.6	112.3	104.8	99.8	97.3	97.3
65°	471.7	316.9	211.3	155.6	128.1	115.6	108.1	104.0	101.5	100.7
67.5°	480.0	320.3	213.8	158.1	131.4	119.0	112.3	108.1	104.8	104.8
70°	488.3	324.4	217.1	160.6	134.8	123.1	115.6	111.5	109.0	108.1
72.5°	496.6	328.6	219.6	163.0	138.1	126.4	119.8	114.8	112.3	112.3
75°	504.1	331.9	222.9	166.4	141.4	130.6	123.1	119.0	115.6	115.6
77.5°	509.9	335.2	225.4	168.9	144.7	133.1	126.4	122.3	119.0	119.0
80°	514.9	337.7	227.9	172.2	148.1	136.4	129.8	124.8	122.3	121.5
82.5°	519.9	340.2	229.6	174.7	150.6	139.8	132.3	128.1	124.8	123.9
85°	522.4	342.7	232.1	177.2	153.1	142.2	134.8	129.8	127.3	126.4
87.5°	524.9	344.4	233.8	178.9	155.6	143.9	137.3	132.3	128.9	128.1
90°	526.6	346.1	235.4	181.3	157.2	146.4	138.9	133.1	129.8	129.8
92.5°	527.4	346.9	237.1	182.2	158.9	147.2	139.8	133.9	130.6	130.6
95°	527.4	347.7	238.7	183.8	160.6	148.1	140.6	134.8	131.4	130.6
97.5°	526.6	348.6	239.6	185.5	161.4	148.1	140.6	134.8	131.4	130.6
100°	524.1	347.7	241.2	186.3	161.4	148.1	139.8	133.9	130.6	129.8
102.5°	521.6	348.6	242.9	188.0	162.2	148.1	138.9	133.1	129.8	128.9
105°	517.4	349.4	244.6	188.8	162.2	147.2	138.1	131.4	128.1	127.3
107.5°	513.3	349.4	246.2	189.7	162.2	146.4	136.4	129.8	126.4	125.6
110°	509.1	351.0	248.7	192.2	162.2	145.6	134.8	128.1	123.9	123.9



REPORT NUMBER: P256804

CATALOG NUMBER: ULA-A7-D-U-ASYM-VMx-7030-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	504.9	351.9	252.1	193.8	163.0	143.9	132.3	125.6	121.5	121.5
115°	500.0	353.5	255.4	195.5	163.0	143.1	130.6	123.1	119.0	119.0
117.5°	495.0	355.2	257.9	198.0	163.9	142.2	128.9	120.6	116.5	116.5
120°	489.1	356.9	261.2	200.5	164.7	141.4	127.3	118.1	114.8	114.0
122.5°	483.3	356.9	264.5	204.6	165.5	140.6	125.6	116.5	112.3	111.5
125°	475.8	356.9	267.0	206.3	166.4	140.6	123.9	114.0	109.8	109.0
127.5°	467.5	356.0	269.5	208.0	166.4	139.8	122.3	112.3	107.3	107.3
130°	457.5	353.5	270.4	209.6	167.2	138.9	121.5	110.6	105.6	104.8
132.5°	447.5	350.2	270.4	211.3	168.0	138.9	119.8	109.0	104.0	103.2
135°	433.4	344.4	268.7	211.3	168.0	138.9	119.0	108.1	102.3	102.3
137.5°	419.3	337.7	266.2	209.6	168.0	138.1	119.0	107.3	101.5	100.7
140°	403.5	328.6	262.0	208.8	167.2	138.1	118.1	106.5	100.7	99.8
142.5°	386.8	319.4	257.9	207.1	167.2	138.1	118.1	106.5	100.7	99.8
145°	370.2	309.5	252.9	204.6	165.5	138.1	118.1	106.5	100.7	99.8
147.5°	352.7	298.6	247.1	200.5	164.7	138.1	119.0	106.5	101.5	100.7
150°	334.4	285.3	239.6	196.3	163.0	137.3	119.0	107.3	102.3	101.5
152.5°	316.1	272.0	230.4	191.3	161.4	137.3	119.8	109.0	104.0	103.2
155°	296.1	258.7	222.1	187.2	159.7	138.1	122.3	111.5	107.3	106.5
157.5°	277.8	245.4	213.8	183.0	158.9	138.9	124.8	114.8	110.6	109.8
160°	259.5	232.1	204.6	178.9	157.2	139.8	126.4	118.1	114.0	114.0
162.5°	241.2	217.9	193.8	173.0	154.7	139.8	128.9	121.5	117.3	117.3
165°	222.9	203.0	184.7	167.2	152.2	140.6	130.6	124.8	121.5	120.6
167.5°	207.1	191.3	176.4	163.0	150.6	141.4	133.1	128.1	125.6	125.6
170°	192.2	181.3	169.7	159.7	150.6	143.1	136.4	133.1	130.6	130.6
172.5°	181.3	173.9	165.5	158.1	151.4	145.6	141.4	138.9	137.3	136.4
175°	173.9	168.9	163.0	158.9	154.7	150.6	148.1	147.2	146.4	146.4
177.5°	170.5	167.2	164.7	162.2	160.6	158.9	158.1	157.2	157.2	156.4
180°	170.5	170.5	170.5	170.5	170.5	170.5	170.5	170.5	170.5	170.5

(END OF REPORT)