

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: P256799

Luminaire Tested: **ULA-A5-D-U-ASYM-VMx-HSS-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256799
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-A5-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: 4384.8 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 2.17')
IES Classification: Type - Short - Non-Cutoff
BUG Rating: B1 - U5 - G3

Input Watts (W): 36.7
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



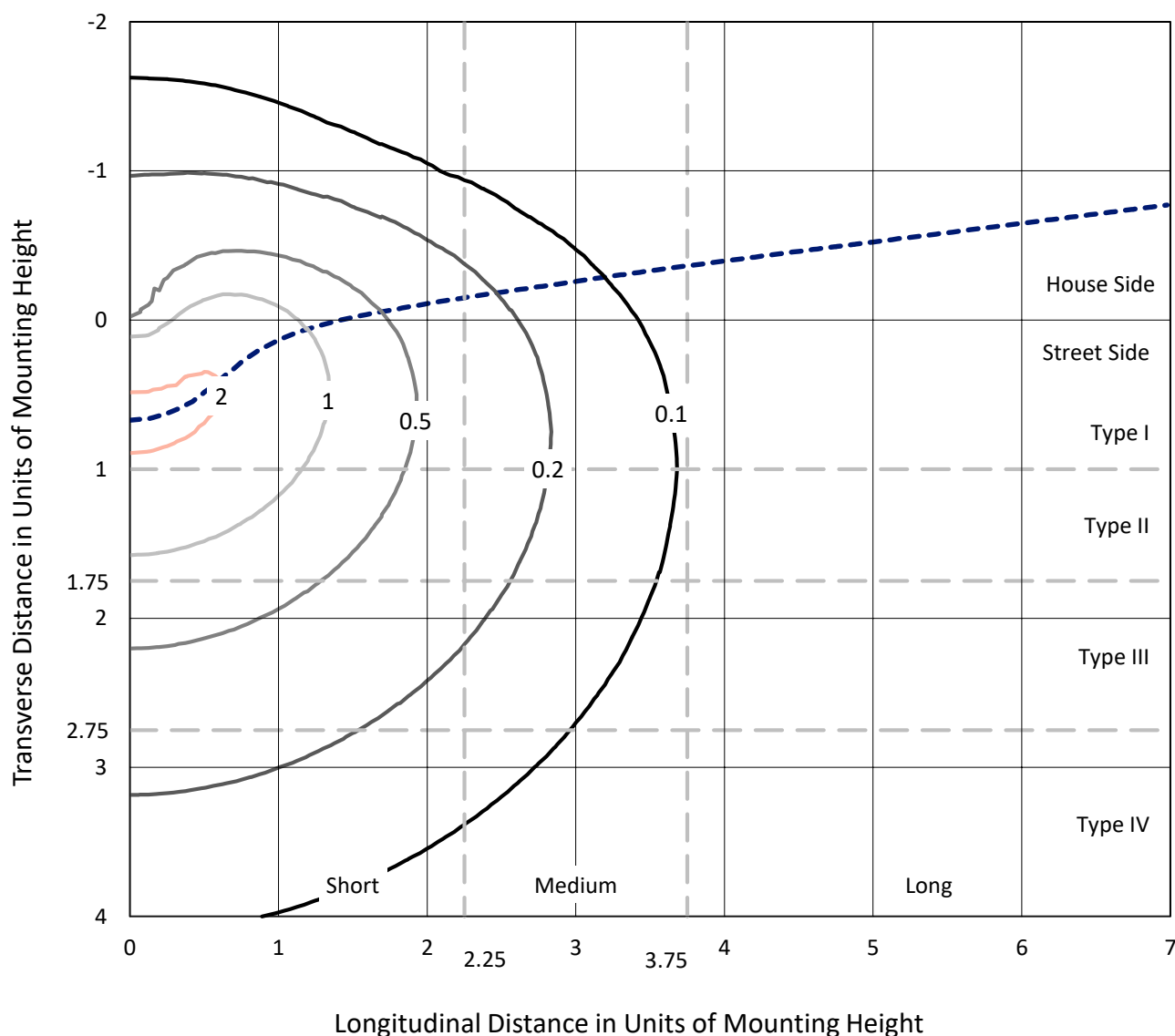
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

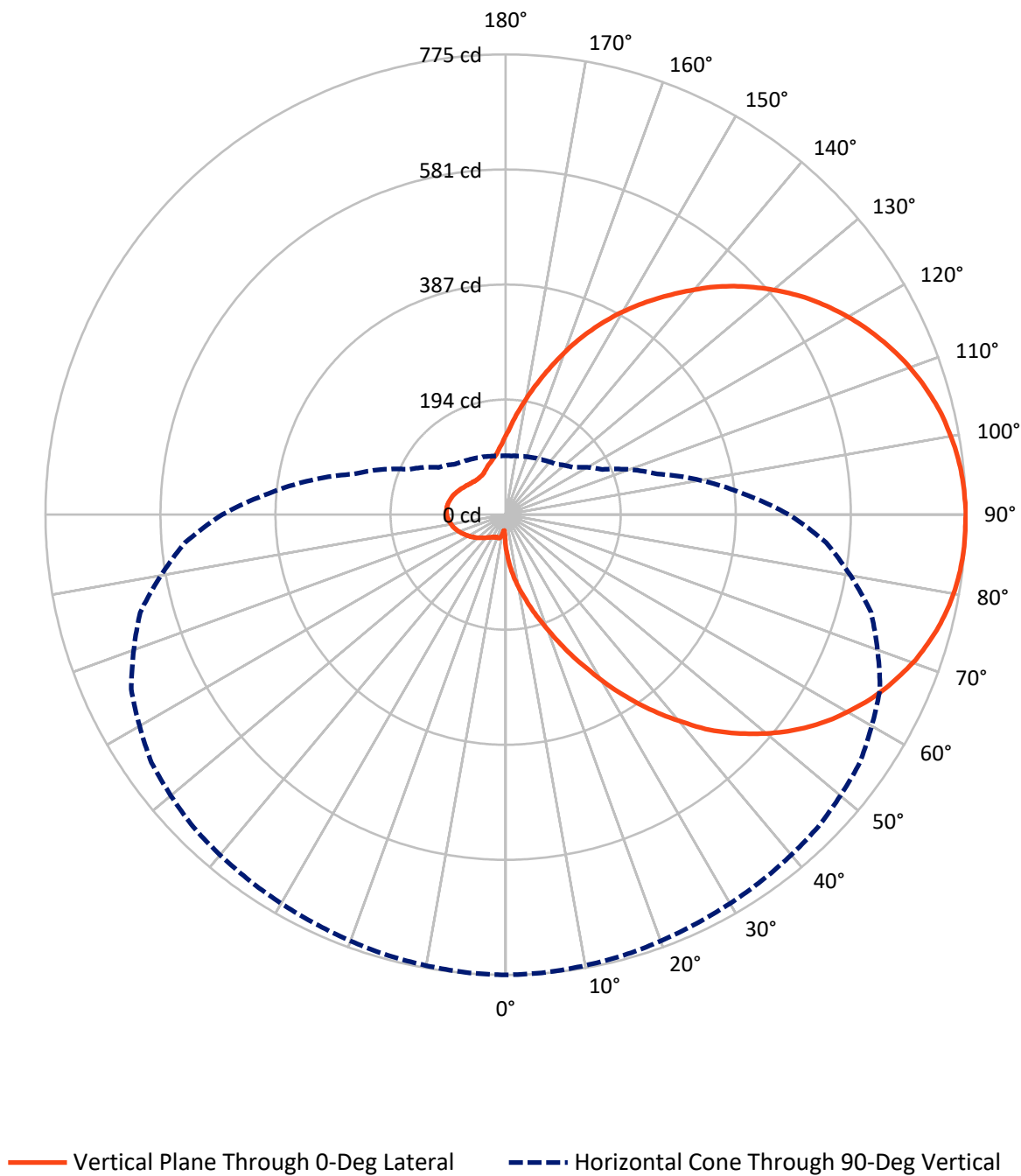


Based on 10 foot mounting height. Maximum calculated value = 2.2 fc
Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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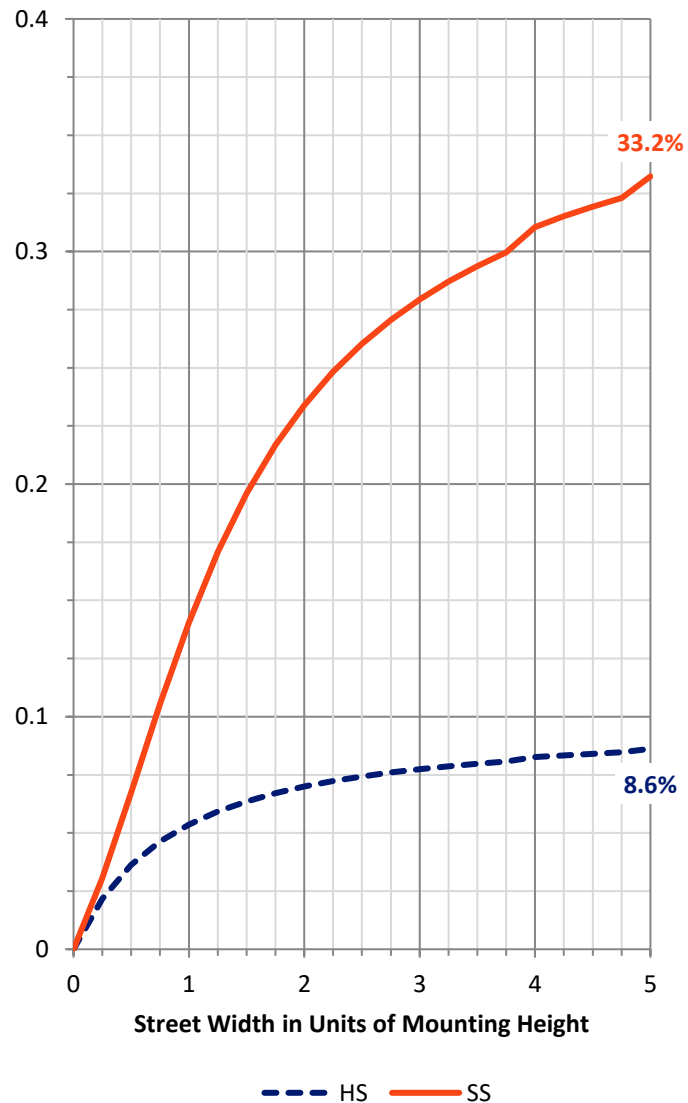
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	419.3	509.3	928.6
	% Fixture	9.6	11.6	21.2
Street Side	Lumens	1700.6	1755.7	3456.2
	% Fixture	38.8	40.0	78.8
Total	Lumens	2119.9	2264.9	4384.8
	% Fixture	48.3	51.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	0.1
10°-20°	30.5	0.7
20°-30°	76.3	1.7
30°-40°	147.0	3.4
40°-50°	231.7	5.3
50°-60°	315.7	7.2
60°-70°	389.6	8.9
70°-80°	445.9	10.2
80°-90°	476.7	10.9
90°-100°	478.8	10.9
100°-110°	451.8	10.3
110°-120°	401.2	9.1
120°-130°	334.6	7.6
130°-140°	256.3	5.8
140°-150°	175.4	4.0
150°-160°	104.2	2.4
160°-170°	49.3	1.1
170°-180°	13.3	0.3
0°-90°	2119.9	48.3
0°-180°	4384.8	100.0

Coefficient of Utilization



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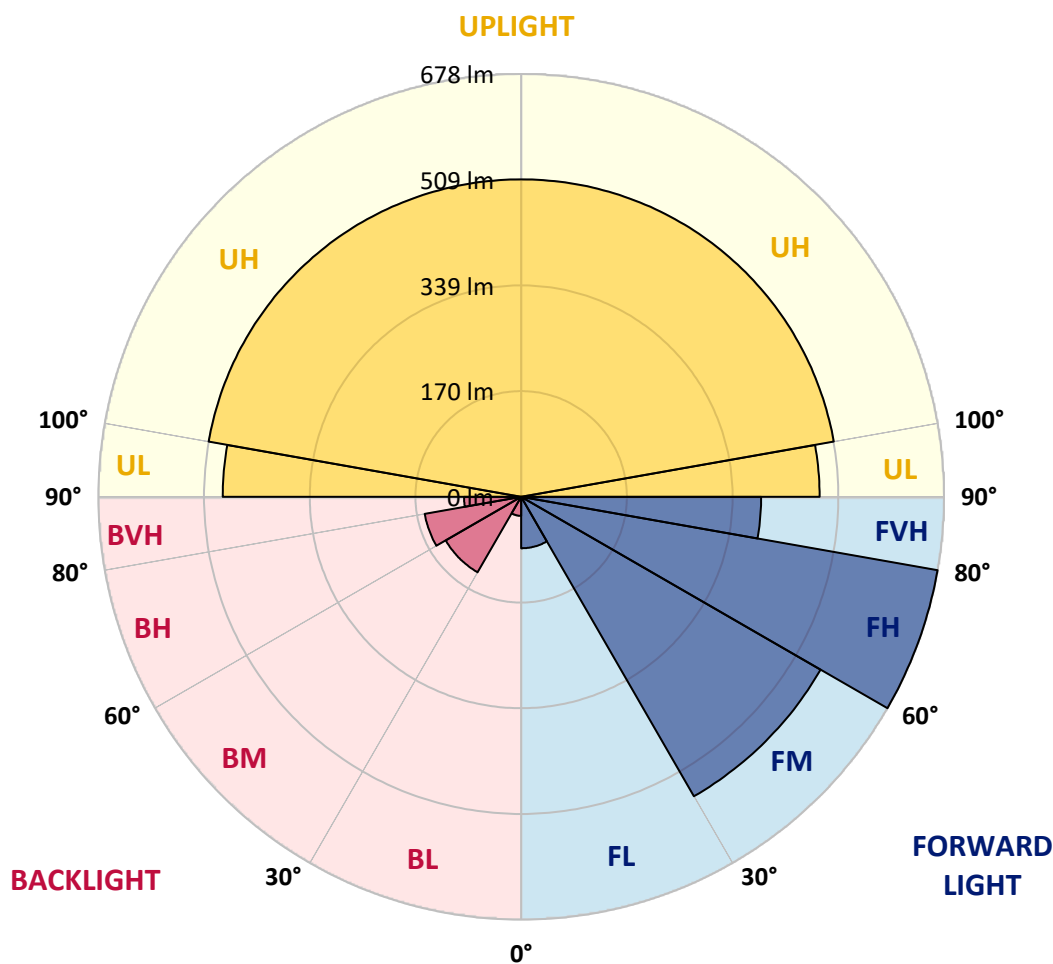
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	82.6	1.9			
FM	(30°-60°)	554.7	12.6			
FH	(60°-80°)	678.4	15.5			G1/1800
FVH	(80°-90°)	385.0	8.8			G3/500
BL	(0°-30°)	30.6	0.7	B0/110		
BM	(30°-60°)	139.8	3.2	B0/220		
BH	(60°-80°)	157.1	3.6	B1/500		G1/500
BVH	(80°-90°)	91.8	2.1			G1/100
UL	(90°-100°)	478.8	10.9		U3/500	
UH	(100°-180°)	509.3	11.6		U4/1000	

BUG Rating: B1-U5-G3

Type Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
2.5°	72.4	71.1	71.1	70.5	70.5	67.9	65.4	62.9	59.7	57.8	56.5
5°	91.4	89.5	88.9	87.0	85.1	80.6	77.5	72.4	67.9	62.2	59.7
7.5°	109.2	107.9	106.0	103.5	101.6	95.9	91.4	85.1	79.4	73.0	70.5
10°	127.0	125.7	123.8	121.3	117.5	113.0	107.9	100.3	93.3	85.7	81.9
12.5°	144.1	143.5	142.2	139.7	136.5	131.4	125.7	117.5	109.2	99.1	94.0
15°	165.1	163.8	162.5	160.0	156.8	151.1	144.8	136.5	125.7	114.3	108.6
17.5°	186.0	184.8	184.8	182.9	179.1	174.0	167.0	156.8	143.5	129.5	121.9
20°	209.5	208.3	208.3	206.4	202.6	197.5	189.9	179.1	164.5	146.0	137.2
22.5°	236.2	234.9	234.9	233.0	229.2	224.1	215.9	203.8	186.7	167.0	154.9
25°	265.4	263.5	263.5	261.6	257.8	252.7	244.5	230.5	210.8	188.6	174.6
27.5°	294.0	294.0	292.7	292.7	288.9	283.8	274.9	259.7	237.5	210.8	194.3
30°	327.6	327.6	325.7	325.1	320.7	316.2	306.0	289.5	265.4	233.7	214.0
32.5°	360.7	360.7	358.8	358.1	353.0	348.6	337.8	320.0	292.7	255.9	234.3
35°	394.3	393.0	391.8	391.1	386.7	381.0	370.2	349.9	319.4	278.1	254.0
37.5°	426.7	426.7	425.4	423.5	419.7	412.7	400.0	378.4	346.1	300.3	272.4
40°	459.1	459.7	458.4	456.5	450.2	444.5	431.1	407.6	372.1	321.3	290.8
42.5°	493.4	491.5	489.6	487.6	481.3	474.3	460.3	435.6	396.8	341.6	308.0
45°	523.2	521.9	520.0	517.5	511.8	502.9	488.9	461.6	420.3	360.0	324.5
47.5°	551.1	550.5	547.3	544.2	539.1	529.6	514.3	486.4	442.6	378.4	339.1
50°	578.4	578.4	575.3	570.2	564.5	556.9	539.1	509.9	463.5	395.6	353.7
52.5°	603.8	603.2	598.8	593.1	588.0	579.7	562.6	532.1	483.2	411.5	366.4
55°	627.3	626.7	621.6	615.9	610.2	601.9	584.2	552.4	502.3	426.7	379.1
57.5°	648.9	648.3	643.2	636.2	630.5	622.3	603.8	570.8	519.4	440.7	391.1
60°	668.0	667.3	662.3	654.6	648.9	640.7	622.9	588.6	535.9	454.0	401.9
62.5°	687.0	685.8	680.0	672.4	665.4	657.8	640.0	605.7	551.8	466.7	412.1
65°	703.5	702.3	695.9	687.7	681.3	673.1	655.3	621.0	565.7	478.8	422.2
67.5°	718.1	716.9	710.5	701.6	695.3	687.0	669.9	635.0	578.4	489.6	431.1
70°	732.1	730.2	723.9	714.3	708.0	699.7	682.6	647.7	591.1	499.7	440.0
72.5°	742.9	741.6	734.6	725.1	718.1	711.2	694.0	659.1	601.9	509.2	448.3
75°	753.1	751.8	744.8	734.6	728.3	720.7	704.2	669.2	610.8	517.5	455.3
77.5°	760.7	759.4	752.4	742.3	735.9	728.3	711.8	677.5	618.4	524.5	461.0
80°	767.0	765.1	758.1	748.6	741.6	734.0	718.1	683.8	625.4	530.2	466.7
82.5°	770.8	769.6	763.2	753.7	746.7	738.5	722.6	688.9	629.9	535.3	470.5
85°	773.4	772.1	765.8	756.9	749.2	741.6	725.8	692.1	633.7	538.4	473.7
87.5°	774.0	773.4	767.7	758.8	751.2	742.9	727.0	694.0	636.2	541.0	475.6
90°	774.6	773.4	767.7	759.4	751.8	743.5	727.7	695.3	636.9	541.6	476.9
92.5°	772.7	772.1	767.0	758.8	751.8	742.3	726.4	694.6	636.9	542.3	477.5
95°	770.2	768.9	765.1	756.9	749.2	740.4	723.9	692.7	635.6	541.6	476.9
97.5°	765.8	765.1	761.3	753.1	746.1	736.6	720.0	688.9	632.4	539.1	475.6
100°	759.4	758.8	755.0	747.3	739.7	730.8	714.3	683.2	627.3	535.3	472.4
102.5°	753.1	751.8	748.0	740.4	733.4	724.5	708.0	677.5	621.6	530.8	469.2
105°	743.5	742.3	739.1	732.1	724.5	715.6	699.1	669.2	613.4	525.1	464.2
107.5°	733.4	732.1	728.9	721.9	714.3	706.1	690.2	660.4	605.1	518.8	459.1
110°	721.9	719.4	716.9	709.9	702.9	695.3	679.4	650.2	596.9	511.1	453.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	708.6	707.3	704.2	697.8	690.2	683.2	667.3	638.8	585.4	502.9	447.6
115°	694.0	692.7	689.6	683.2	676.9	669.9	655.3	625.4	574.6	494.6	441.3
117.5°	678.8	677.5	673.7	668.0	662.3	655.9	640.7	612.7	562.6	485.1	434.3
120°	662.3	661.0	657.8	652.7	647.0	640.7	626.1	598.1	549.9	475.6	426.7
122.5°	644.5	643.8	640.7	635.0	629.9	624.8	610.8	583.5	536.5	464.8	419.1
125°	626.1	624.8	621.6	616.5	612.7	607.0	593.1	566.4	521.9	453.4	410.2
127.5°	605.7	605.1	601.9	597.5	593.7	588.6	574.6	549.2	506.1	441.3	400.7
130°	584.2	584.2	579.7	577.2	574.0	568.3	555.0	530.2	488.9	427.3	389.9
132.5°	561.9	561.3	558.8	555.0	552.4	546.7	534.0	509.9	470.5	413.4	378.4
135°	539.1	538.4	534.6	532.1	530.2	524.5	511.1	488.3	451.5	398.1	365.7
137.5°	515.0	515.0	511.1	509.2	506.7	500.3	487.6	465.4	431.1	381.6	351.8
140°	488.9	488.9	486.4	483.2	481.3	474.3	462.2	440.7	408.9	363.2	336.5
142.5°	463.5	463.5	461.0	457.8	455.3	448.3	436.2	415.9	386.7	345.4	321.3
145°	438.8	438.8	436.9	433.7	430.5	423.5	411.5	391.8	365.1	327.0	306.0
147.5°	414.0	414.0	412.1	408.9	405.7	398.8	386.7	368.3	343.5	309.9	290.2
150°	389.2	389.2	386.7	383.5	381.0	373.4	361.9	344.1	321.9	290.8	273.7
152.5°	363.8	363.8	361.3	358.8	354.9	348.0	336.5	321.3	299.7	272.4	257.2
155°	337.8	336.5	335.3	332.7	328.9	321.9	311.1	297.2	277.5	254.0	240.6
157.5°	312.4	311.1	309.2	307.3	303.5	297.2	287.0	273.7	256.5	236.2	224.8
160°	285.1	286.4	284.5	282.6	278.7	271.8	262.9	251.4	236.2	218.4	208.9
162.5°	259.7	260.3	259.1	257.2	254.0	247.0	239.4	229.2	215.9	200.6	192.4
165°	235.6	236.2	234.9	233.0	229.9	223.5	217.2	207.6	196.2	184.1	177.2
167.5°	214.0	215.3	212.7	210.8	208.3	202.6	196.8	189.2	179.1	169.5	163.8
170°	193.0	194.9	192.4	191.1	188.6	184.1	178.4	172.7	164.5	156.2	151.1
172.5°	174.6	175.9	174.0	172.7	170.2	166.4	162.5	157.5	151.1	144.8	141.6
175°	157.5	157.5	156.8	154.3	153.7	151.1	147.9	144.8	141.6	137.2	134.6
177.5°	141.6	141.6	141.6	141.0	140.3	139.1	137.8	135.9	134.0	132.1	130.8
180°	130.2	130.2	130.2	130.2	130.2	130.2	130.2	130.2	130.2	130.2	130.2



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CATALOG NUMBER: ULA-A5-D-U-ASYM-VMx-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
2.5°	55.2	51.4	48.3	45.1	41.9	40.0	36.8	36.2	35.6	34.9
5°	57.1	52.1	46.4	41.9	37.5	33.0	29.8	27.9	26.7	26.7
7.5°	66.7	61.0	54.0	47.6	42.5	37.5	33.7	30.5	28.6	27.9
10°	77.5	69.8	61.6	54.0	48.3	42.5	37.5	34.3	33.0	33.0
12.5°	89.5	80.0	69.8	60.3	53.3	46.4	41.3	38.7	37.5	37.5
15°	101.6	89.5	77.5	66.0	57.1	50.2	45.1	41.9	40.6	40.6
17.5°	114.3	99.7	84.4	71.1	61.0	52.7	47.0	43.2	41.3	41.3
20°	127.6	109.2	91.4	75.6	63.5	54.0	47.6	43.2	41.3	40.6
22.5°	142.9	120.0	99.1	80.6	66.7	55.9	48.3	43.8	41.3	41.3
25°	160.0	131.4	106.7	85.1	69.2	57.1	48.9	43.8	41.9	41.3
27.5°	177.8	143.5	114.3	90.2	71.8	59.1	50.2	45.1	42.5	42.5
30°	195.6	155.6	121.3	94.0	74.3	60.3	51.4	46.4	43.8	43.2
32.5°	212.7	167.6	127.6	97.8	76.8	62.2	52.7	47.6	45.1	45.1
35°	227.9	177.2	133.3	100.3	78.7	64.1	54.6	48.9	46.4	46.4
37.5°	243.8	186.7	137.8	102.9	80.0	65.4	55.9	50.8	48.3	48.3
40°	258.4	194.9	141.6	104.8	81.3	66.7	57.8	52.7	50.2	50.2
42.5°	272.4	202.6	144.8	106.7	83.2	68.6	59.7	54.6	52.7	52.7
45°	285.1	208.3	147.3	107.9	84.4	70.5	62.2	57.1	55.2	54.6
47.5°	296.5	214.0	149.2	109.2	85.7	71.8	64.1	59.7	57.1	57.1
50°	307.3	219.1	151.1	109.8	87.0	73.7	66.7	62.2	60.3	60.3
52.5°	317.5	223.5	152.4	111.1	88.3	75.6	68.6	64.8	62.9	62.9
55°	327.0	227.9	154.9	112.4	90.2	78.1	71.1	67.3	65.4	65.4
57.5°	335.9	231.8	156.8	113.7	91.4	80.6	74.3	70.5	68.6	68.6
60°	344.1	234.9	158.1	114.9	93.3	83.2	76.8	73.0	71.1	71.1
62.5°	352.4	238.7	159.4	116.8	95.9	85.7	80.0	76.2	74.3	74.3
65°	360.0	241.9	161.3	118.7	97.8	88.3	82.5	79.4	77.5	76.8
67.5°	366.4	244.5	163.2	120.6	100.3	90.8	85.7	82.5	80.0	80.0
70°	372.7	247.6	165.7	122.5	102.9	94.0	88.3	85.1	83.2	82.5
72.5°	379.1	250.8	167.6	124.5	105.4	96.5	91.4	87.6	85.7	85.7
75°	384.8	253.3	170.2	127.0	107.9	99.7	94.0	90.8	88.3	88.3
77.5°	389.2	255.9	172.1	128.9	110.5	101.6	96.5	93.3	90.8	90.8
80°	393.0	257.8	174.0	131.4	113.0	104.1	99.1	95.2	93.3	92.7
82.5°	396.8	259.7	175.2	133.3	114.9	106.7	101.0	97.8	95.2	94.6
85°	398.8	261.6	177.2	135.2	116.8	108.6	102.9	99.1	97.1	96.5
87.5°	400.7	262.9	178.4	136.5	118.7	109.8	104.8	101.0	98.4	97.8
90°	401.9	264.1	179.7	138.4	120.0	111.8	106.0	101.6	99.1	99.1
92.5°	402.6	264.8	181.0	139.1	121.3	112.4	106.7	102.2	99.7	99.7
95°	402.6	265.4	182.2	140.3	122.5	113.0	107.3	102.9	100.3	99.7
97.5°	401.9	266.0	182.9	141.6	123.2	113.0	107.3	102.9	100.3	99.7
100°	400.0	265.4	184.1	142.2	123.2	113.0	106.7	102.2	99.7	99.1
102.5°	398.1	266.0	185.4	143.5	123.8	113.0	106.0	101.6	99.1	98.4
105°	394.9	266.7	186.7	144.1	123.8	112.4	105.4	100.3	97.8	97.1
107.5°	391.8	266.7	187.9	144.8	123.8	111.8	104.1	99.1	96.5	95.9
110°	388.6	268.0	189.9	146.7	123.8	111.1	102.9	97.8	94.6	94.6



REPORT NUMBER: P256799

CATALOG NUMBER: ULA-A5-D-U-ASYM-VMx-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	385.4	268.6	192.4	147.9	124.5	109.8	101.0	95.9	92.7	92.7
115°	381.6	269.9	194.9	149.2	124.5	109.2	99.7	94.0	90.8	90.8
117.5°	377.8	271.1	196.8	151.1	125.1	108.6	98.4	92.1	88.9	88.9
120°	373.4	272.4	199.4	153.0	125.7	107.9	97.1	90.2	87.6	87.0
122.5°	368.9	272.4	201.9	156.2	126.4	107.3	95.9	88.9	85.7	85.1
125°	363.2	272.4	203.8	157.5	127.0	107.3	94.6	87.0	83.8	83.2
127.5°	356.8	271.8	205.7	158.7	127.0	106.7	93.3	85.7	81.9	81.9
130°	349.2	269.9	206.4	160.0	127.6	106.0	92.7	84.4	80.6	80.0
132.5°	341.6	267.3	206.4	161.3	128.3	106.0	91.4	83.2	79.4	78.7
135°	330.8	262.9	205.1	161.3	128.3	106.0	90.8	82.5	78.1	78.1
137.5°	320.0	257.8	203.2	160.0	128.3	105.4	90.8	81.9	77.5	76.8
140°	308.0	250.8	200.0	159.4	127.6	105.4	90.2	81.3	76.8	76.2
142.5°	295.3	243.8	196.8	158.1	127.6	105.4	90.2	81.3	76.8	76.2
145°	282.6	236.2	193.0	156.2	126.4	105.4	90.2	81.3	76.8	76.2
147.5°	269.2	227.9	188.6	153.0	125.7	105.4	90.8	81.3	77.5	76.8
150°	255.3	217.8	182.9	149.8	124.5	104.8	90.8	81.9	78.1	77.5
152.5°	241.3	207.6	175.9	146.0	123.2	104.8	91.4	83.2	79.4	78.7
155°	226.0	197.5	169.5	142.9	121.9	105.4	93.3	85.1	81.9	81.3
157.5°	212.1	187.3	163.2	139.7	121.3	106.0	95.2	87.6	84.4	83.8
160°	198.1	177.2	156.2	136.5	120.0	106.7	96.5	90.2	87.0	87.0
162.5°	184.1	166.4	147.9	132.1	118.1	106.7	98.4	92.7	89.5	89.5
165°	170.2	154.9	141.0	127.6	116.2	107.3	99.7	95.2	92.7	92.1
167.5°	158.1	146.0	134.6	124.5	114.9	107.9	101.6	97.8	95.9	95.9
170°	146.7	138.4	129.5	121.9	114.9	109.2	104.1	101.6	99.7	99.7
172.5°	138.4	132.7	126.4	120.6	115.6	111.1	107.9	106.0	104.8	104.1
175°	132.7	128.9	124.5	121.3	118.1	114.9	113.0	112.4	111.8	111.8
177.5°	130.2	127.6	125.7	123.8	122.5	121.3	120.6	120.0	120.0	119.4
180°	130.2	130.2	130.2	130.2	130.2	130.2	130.2	130.2	130.2	130.2

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