

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: P256844

Luminaire Tested: **ULA-A6-D-U-SYM-VMx-HSS-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1804-729-17)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ULA-A6-D-U-SYM-VMx-HSS-BK
Description: UTILITY LIGHT ACORN SYMMETRIC W/ HSS
Light Source: (90) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4713.1 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 2.17')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U5 - G3

Input Watts (W): 44.4
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



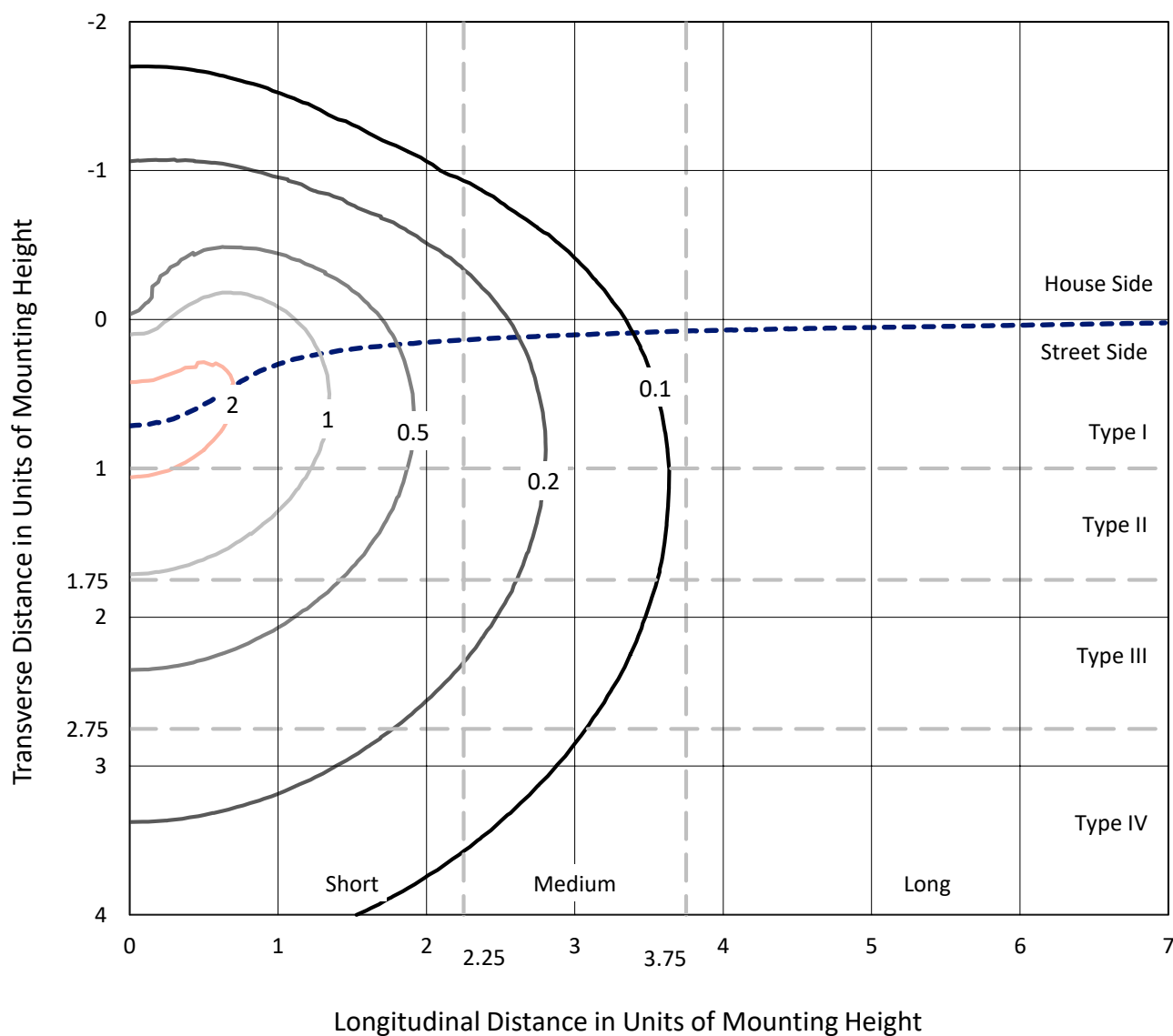
REPORT NUMBER: P256844

CATALOG NUMBER: ULA-A6-D-U-SYM-VMx-HSS-BK

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

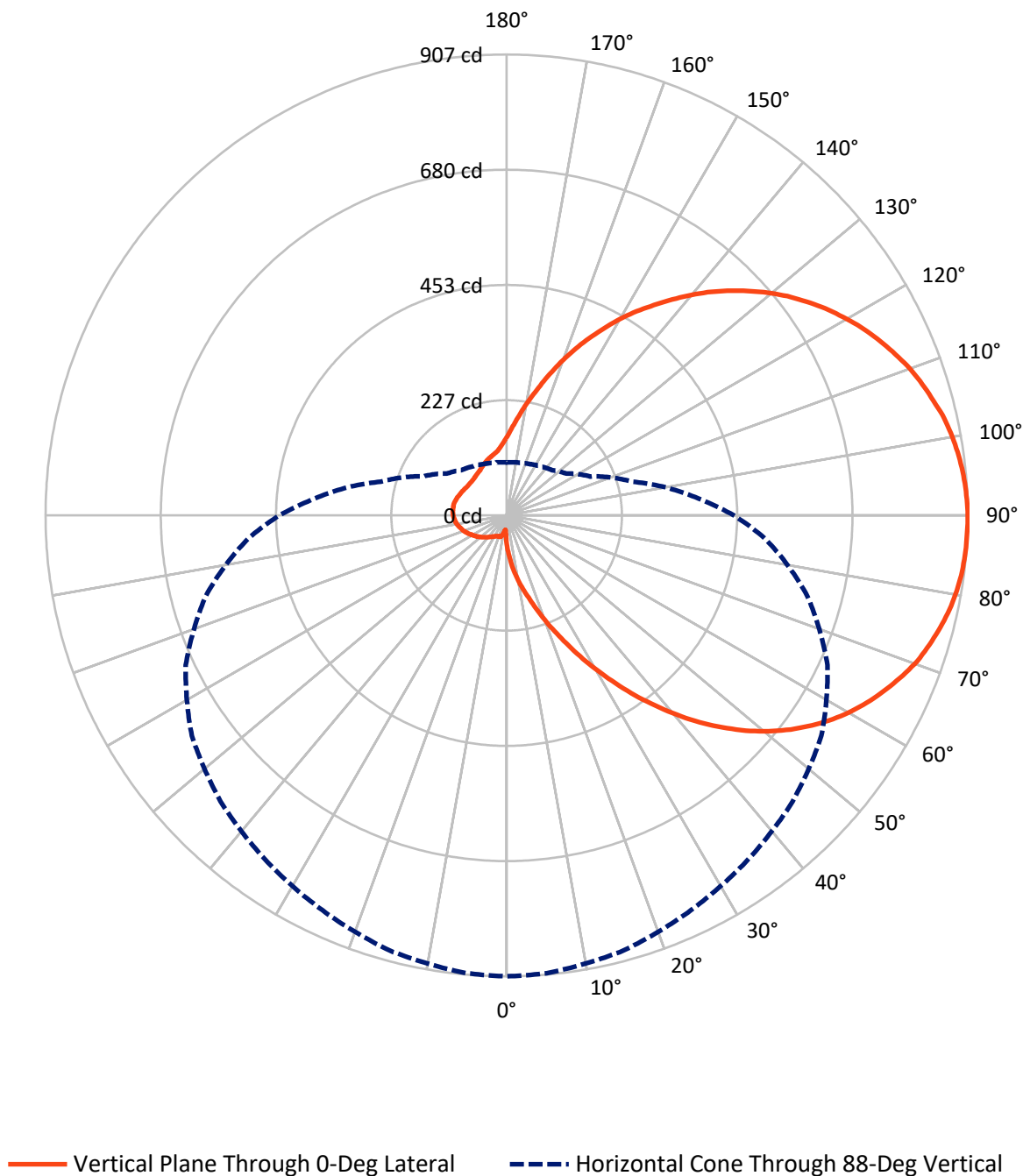


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P256844

CATALOG NUMBER: ULA-A6-D-U-SYM-VMx-HSS-BK

Luminous Intensity Polar Plot



REPORT NUMBER: P256844

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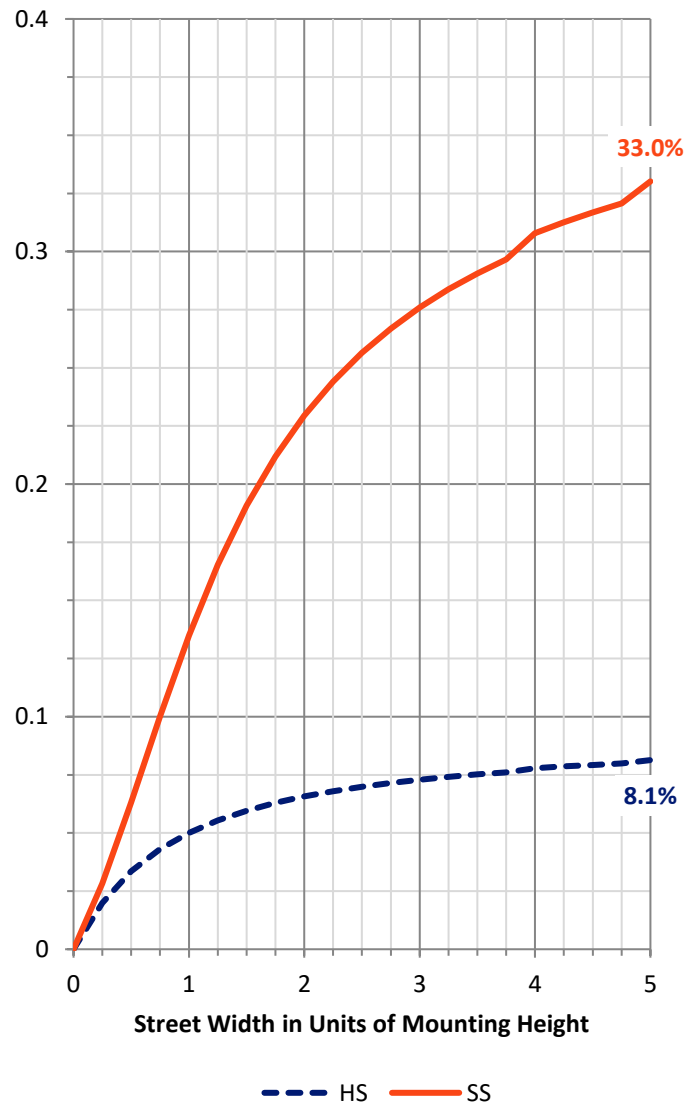
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	426.2	559.4	985.5
	% Fixture	9.0	11.9	20.9
Street Side	Lumens	1824.9	1902.6	3727.5
	% Fixture	38.7	40.4	79.1
Total	Lumens	2251.1	2462.0	4713.1
	% Fixture	47.8	52.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	0.1
10°-20°	31.9	0.7
20°-30°	80.1	1.7
30°-40°	155.9	3.3
40°-50°	247.7	5.3
50°-60°	337.5	7.2
60°-70°	414.5	8.8
70°-80°	472.5	10.0
80°-90°	504.3	10.7
90°-100°	507.3	10.8
100°-110°	481.3	10.2
110°-120°	432.1	9.2
120°-130°	365.8	7.8
130°-140°	285.0	6.0
140°-150°	198.4	4.2
150°-160°	119.5	2.5
160°-170°	57.0	1.2
170°-180°	15.5	0.3
0°-90°	2251.1	47.8
0°-180°	4713.1	100.0

Coefficient of Utilization



REPORT NUMBER: P256844

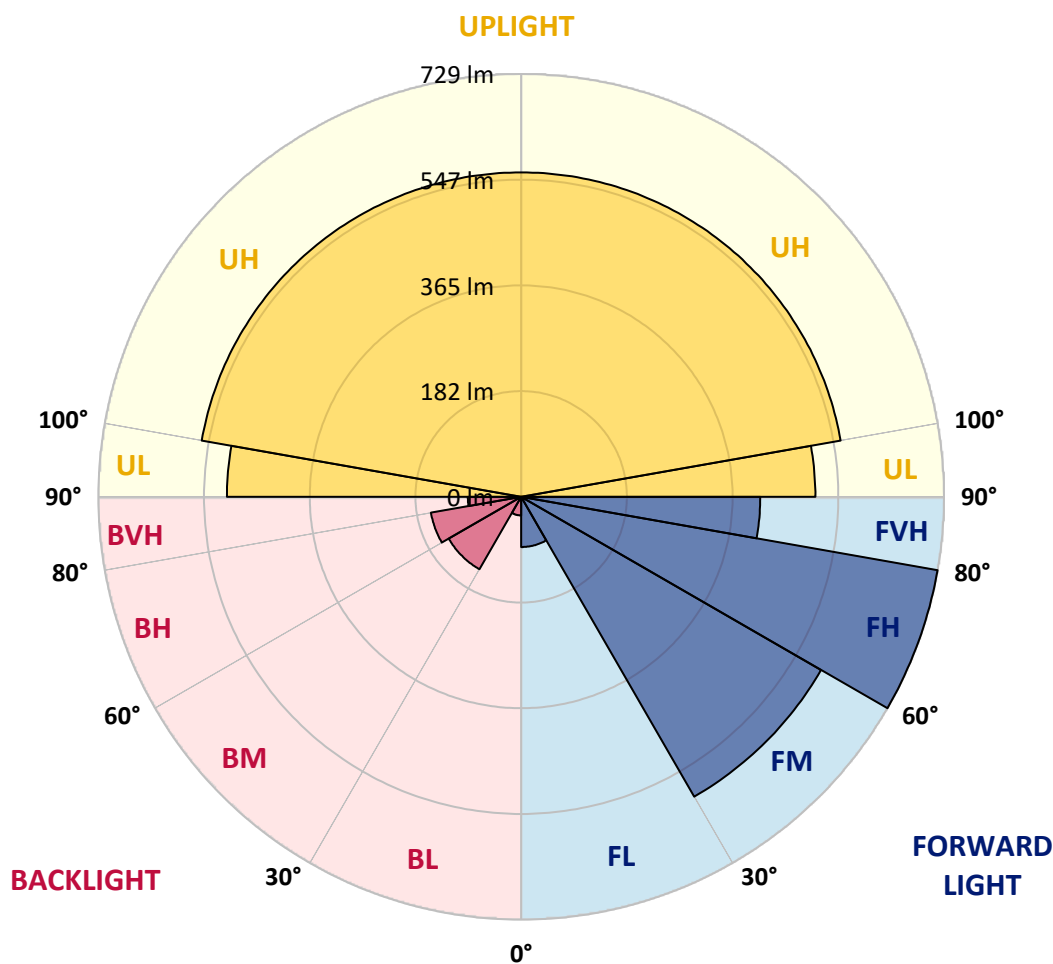
CATALOG NUMBER: ULA-A6-D-U-SYM-VMx-HSS-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	86.6	1.8			
FM	(30°-60°)	597.0	12.7			
FH	(60°-80°)	729.1	15.5			G1/1800
FVH	(80°-90°)	412.2	8.7			G3/500
BL	(0°-30°)	32.1	0.7	B0/110		
BM	(30°-60°)	144.2	3.1	B0/220		
BH	(60°-80°)	157.9	3.3	B1/500		G1/500
BVH	(80°-90°)	92.1	2.0			G1/100
UL	(90°-100°)	507.3	10.8		U4/1000	
UH	(100°-180°)	559.4	11.9		U4/1000	

BUG Rating: B1-U5-G3

Type IV Short



REPORT NUMBER: P256844

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
2.5°	74.8	74.8	73.4	74.1	72.0	70.6	67.8	65.0	62.9	60.1	58.7
5°	95.1	93.7	92.3	90.9	87.4	83.9	80.4	75.5	70.6	65.7	62.9
7.5°	113.9	113.2	110.4	108.3	104.1	100.0	95.1	88.8	83.2	76.9	73.4
10°	132.8	132.1	129.3	127.2	122.3	118.1	111.8	104.8	97.9	89.5	85.3
12.5°	151.7	151.0	148.2	146.8	142.6	137.7	130.7	121.6	113.2	103.4	98.6
15°	171.3	171.3	170.6	167.8	162.9	158.0	151.0	140.5	130.0	118.1	112.5
17.5°	197.1	195.7	193.6	191.5	187.3	181.7	171.3	161.5	148.2	134.2	125.8
20°	223.7	222.3	220.9	218.1	212.5	206.9	196.4	184.5	167.8	151.0	140.5
22.5°	252.3	250.9	249.5	246.7	241.1	234.9	223.7	209.7	192.2	170.6	157.3
25°	283.8	283.8	281.7	278.9	272.6	266.3	253.0	237.7	217.4	191.5	176.8
27.5°	319.4	317.3	316.6	313.1	307.6	299.9	285.9	267.7	243.9	213.9	197.8
30°	355.1	354.4	353.7	349.5	343.2	334.8	318.7	299.9	271.2	236.3	217.4
32.5°	393.5	394.2	391.4	386.5	379.5	370.5	353.0	330.6	299.9	258.6	237.0
35°	434.8	434.1	429.9	426.4	417.3	406.1	386.5	361.4	326.4	280.3	255.8
37.5°	474.6	475.3	471.1	465.5	455.0	442.5	420.8	392.1	351.6	301.3	274.0
40°	515.8	516.5	511.7	503.3	492.1	477.4	453.6	422.2	377.4	321.5	290.1
42.5°	556.4	556.4	551.5	543.1	527.7	511.0	485.1	450.8	401.2	339.7	306.2
45°	594.8	594.8	588.5	578.1	561.3	542.4	514.4	476.7	422.9	356.5	320.1
47.5°	632.6	631.9	624.9	610.9	594.8	573.2	543.8	500.5	443.9	372.6	332.7
50°	667.5	667.5	657.7	642.4	622.1	600.4	569.0	523.5	463.4	387.2	344.6
52.5°	699.7	699.0	688.5	671.7	649.4	626.3	592.7	544.5	480.2	400.5	355.8
55°	729.0	728.3	716.5	697.6	674.5	649.4	614.4	564.1	497.0	413.1	365.6
57.5°	756.3	755.6	741.6	720.6	697.6	671.0	634.7	582.3	512.4	425.0	375.4
60°	780.8	779.4	765.4	742.3	717.9	690.6	654.2	599.7	526.3	435.5	384.4
62.5°	802.4	801.0	785.7	761.9	736.0	708.1	669.6	614.4	538.9	445.9	392.1
65°	822.0	820.6	805.2	779.4	752.8	724.1	685.0	628.4	550.8	455.0	400.5
67.5°	840.2	838.8	821.3	794.7	768.2	738.8	699.7	641.7	562.0	464.1	408.2
70°	857.0	854.2	836.0	809.4	780.8	750.7	712.3	653.5	572.5	472.5	415.2
72.5°	869.5	867.4	849.3	821.3	792.6	763.3	723.4	663.3	582.3	480.2	421.5
75°	880.7	879.3	860.4	831.8	802.4	772.4	733.2	671.7	589.9	487.9	427.8
77.5°	890.5	887.7	869.5	840.9	810.8	780.1	740.9	680.1	596.9	493.5	432.7
80°	897.5	895.4	876.5	847.2	817.1	786.4	747.2	686.4	602.5	498.4	436.9
82.5°	902.4	899.6	881.4	852.1	822.0	790.5	751.4	689.9	606.7	502.6	441.1
85°	905.2	903.1	884.2	855.6	824.8	793.3	754.2	693.4	610.2	506.1	443.9
87.5°	905.9	904.5	886.3	857.0	826.2	795.4	755.6	695.5	612.3	508.2	445.9
88°	906.6	903.8	886.3	857.0	826.9	795.4	755.6	696.2	612.3	508.9	446.6
90°	906.6	903.8	886.3	857.6	826.9	794.7	756.3	696.9	613.0	509.6	448.0
92.5°	904.5	902.4	884.9	857.0	826.2	794.0	755.6	696.2	613.7	511.0	449.4
95°	901.0	898.9	882.1	854.2	823.4	791.9	753.5	694.8	613.0	511.0	449.4
97.5°	895.4	893.3	877.2	849.3	819.2	787.8	749.3	692.0	610.9	510.3	449.4
100°	888.4	886.3	870.2	843.0	812.9	782.2	744.4	688.5	608.1	508.9	448.7
102.5°	879.3	876.5	861.1	834.6	805.9	775.2	738.1	682.2	603.9	506.1	447.3
105°	866.7	865.3	850.7	824.8	795.4	766.1	729.7	675.9	599.0	502.6	444.6
107.5°	854.9	852.8	838.1	812.9	785.7	757.0	721.3	668.2	593.4	499.1	442.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	840.9	838.8	824.1	800.3	773.1	745.8	710.9	659.8	587.1	494.9	440.4
112.5°	824.1	822.7	808.0	785.7	759.8	733.9	700.4	650.8	580.2	490.7	437.6
115°	807.3	805.2	791.2	770.3	745.1	720.6	688.5	640.3	571.8	485.8	434.8
117.5°	789.1	787.1	773.1	752.8	729.7	706.0	675.2	629.1	563.4	480.2	431.3
120°	768.2	766.8	753.5	734.6	713.7	690.6	660.5	617.2	554.3	474.6	427.8
122.5°	747.2	745.1	733.2	715.8	696.2	674.5	645.9	604.6	543.8	467.6	423.6
125°	724.1	722.7	711.6	695.5	677.3	657.0	629.8	589.2	532.6	460.6	418.7
127.5°	700.4	698.3	687.8	673.1	657.0	637.5	612.3	574.6	520.7	451.5	413.1
130°	674.5	673.1	663.3	650.1	634.0	616.5	592.7	557.1	506.8	441.8	405.4
132.5°	647.3	645.9	637.5	626.3	610.2	594.1	571.8	537.5	490.7	430.6	397.0
135°	619.3	618.6	610.9	600.4	585.7	571.1	549.4	517.9	474.6	418.7	387.2
137.5°	590.6	589.9	583.0	572.5	561.3	545.9	525.6	496.3	456.4	404.7	375.4
140°	559.9	559.2	553.6	543.8	531.9	519.3	499.8	473.2	436.2	388.6	362.8
142.5°	529.1	528.4	523.5	516.5	505.4	492.1	473.9	448.7	415.9	372.6	348.8
145°	499.1	498.4	494.2	487.2	476.7	464.8	447.3	425.7	394.9	355.8	334.8
147.5°	470.4	469.0	465.5	459.9	450.1	438.3	422.2	401.9	374.0	339.0	320.1
150°	439.7	439.0	434.8	430.6	420.8	411.0	395.6	378.1	352.3	320.8	304.1
152.5°	408.9	408.2	405.4	400.5	392.1	383.0	369.1	353.0	330.6	302.7	288.0
155°	378.8	378.1	375.4	371.9	363.5	355.1	342.5	327.8	307.6	283.8	270.5
157.5°	348.8	348.8	347.4	343.2	335.5	327.8	315.2	304.1	285.9	264.9	254.4
160°	319.4	319.4	318.7	314.5	308.3	301.3	290.1	278.9	264.9	246.7	237.7
162.5°	290.8	289.4	290.1	287.3	281.0	275.4	265.6	256.5	243.2	227.9	220.2
165°	263.5	262.8	263.5	260.7	255.1	250.2	241.1	234.2	223.0	209.7	204.1
167.5°	239.1	239.1	238.4	236.3	231.4	227.2	220.2	213.9	204.8	194.3	189.4
170°	217.4	216.0	216.7	214.6	211.1	207.6	201.3	195.7	188.7	180.3	176.8
172.5°	197.1	195.7	196.4	194.3	192.2	189.4	185.2	180.3	174.7	167.1	165.0
175°	178.9	178.2	178.2	176.8	175.4	173.3	169.2	166.4	162.9	158.7	157.3
177.5°	162.9	161.5	162.2	161.5	160.8	160.1	158.7	157.3	155.2	153.1	152.4
180°	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0



REPORT NUMBER: P256844

CATALOG NUMBER: ULA-A6-D-U-SYM-VMx-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
2.5°	57.3	54.5	51.0	47.5	44.0	41.2	39.8	37.7	37.7	36.3
5°	60.1	54.5	48.9	44.0	39.1	34.9	31.5	29.4	28.7	28.7
7.5°	69.9	63.6	56.6	50.3	44.7	39.8	35.6	32.2	30.8	30.1
10°	81.1	73.4	64.3	57.3	51.0	44.7	39.8	36.3	34.9	34.9
12.5°	93.0	83.2	72.7	63.6	55.2	48.9	44.0	41.2	39.8	39.1
15°	105.5	93.0	80.4	69.2	60.1	52.4	47.5	44.7	43.3	42.6
17.5°	118.1	102.8	88.1	74.8	63.6	55.9	49.6	45.4	44.0	44.0
20°	131.4	112.5	95.1	79.7	67.1	57.3	50.3	46.1	44.0	44.0
22.5°	146.8	123.7	102.1	84.6	69.9	59.4	51.7	46.8	44.0	44.0
25°	162.9	135.6	110.4	89.5	73.4	61.5	53.1	47.5	45.4	44.7
27.5°	181.0	147.5	118.8	94.4	76.9	63.6	54.5	48.9	46.1	46.1
30°	198.5	158.7	125.8	99.3	79.7	65.7	55.9	50.3	47.5	47.5
32.5°	215.3	169.9	132.1	103.4	82.5	67.8	58.0	51.7	49.6	48.9
35°	230.7	180.3	137.7	106.2	84.6	69.9	60.1	53.8	51.0	51.0
37.5°	245.3	189.4	142.6	109.0	86.7	71.3	62.2	55.9	53.1	53.1
40°	258.6	197.1	146.1	111.1	88.1	73.4	64.3	58.0	55.9	55.2
42.5°	271.2	203.4	148.9	112.5	89.5	75.5	66.4	60.8	58.0	58.0
45°	281.7	209.0	151.7	113.9	90.9	76.9	68.5	62.9	60.8	60.1
47.5°	291.5	213.9	153.1	115.3	92.3	79.0	70.6	65.7	63.6	62.9
50°	300.6	217.4	154.5	116.0	93.7	81.1	72.7	68.5	66.4	65.7
52.5°	308.9	220.9	155.2	116.7	95.1	82.5	75.5	70.6	68.5	68.5
55°	315.9	224.4	156.6	118.1	96.5	85.3	77.6	74.1	72.0	71.3
57.5°	323.6	227.2	158.0	118.8	98.6	87.4	80.4	76.9	74.8	74.1
60°	329.9	230.0	159.4	120.2	100.0	89.5	83.2	79.7	77.6	76.9
62.5°	336.2	232.1	160.1	121.6	102.1	92.3	86.0	82.5	80.4	79.7
65°	341.8	234.9	162.2	123.7	104.1	94.4	88.8	85.3	83.2	83.2
67.5°	347.4	237.7	163.6	125.1	106.9	97.2	91.6	88.1	86.0	86.0
70°	353.0	239.8	165.0	127.2	109.0	100.0	94.4	90.9	88.8	88.8
72.5°	357.9	242.5	167.1	130.0	111.8	102.8	97.2	93.7	91.6	91.6
75°	362.1	244.6	169.2	132.1	113.9	105.5	100.0	96.5	94.4	93.7
77.5°	367.0	247.4	171.9	134.2	116.7	108.3	102.8	99.3	96.5	96.5
80°	370.5	248.8	174.0	136.3	119.5	110.4	104.8	101.4	99.3	98.6
82.5°	374.0	251.6	176.1	138.4	121.6	112.5	106.9	103.4	101.4	100.7
85°	376.1	253.0	177.5	140.5	123.7	114.6	109.0	104.8	102.8	102.1
87.5°	378.1	255.1	179.6	142.6	125.8	116.7	111.1	106.9	104.1	103.4
88°	378.8	255.8	181.0	143.3	125.8	117.4	111.1	106.9	104.8	104.1
90°	380.2	257.2	182.4	144.7	127.2	118.1	112.5	107.6	105.5	104.8
92.5°	380.9	258.6	183.8	146.1	129.3	119.5	113.2	109.0	106.2	105.5
95°	382.3	260.0	185.9	148.2	130.7	120.9	113.9	109.7	106.9	106.2
97.5°	382.3	261.4	188.0	149.6	131.4	121.6	114.6	109.7	106.9	106.2
100°	382.3	262.8	190.1	151.0	132.8	121.6	114.6	109.7	106.9	106.2
102.5°	381.6	264.9	192.2	153.1	133.5	122.3	114.6	109.0	106.2	106.2
105°	380.9	266.3	194.3	155.2	134.9	122.3	113.9	108.3	105.5	105.5
107.5°	380.9	269.1	197.8	157.3	135.6	122.3	113.2	107.6	104.8	104.1



REPORT NUMBER: P256844

CATALOG NUMBER: ULA-A6-D-U-SYM-VMx-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	380.2	271.9	202.0	160.8	137.7	123.0	113.2	106.9	103.4	103.4
112.5°	379.5	275.4	205.5	163.6	139.1	123.0	112.5	105.5	102.8	102.1
115°	380.2	278.9	210.4	167.1	141.2	123.7	111.8	104.8	101.4	100.7
117.5°	378.8	282.4	215.3	171.3	143.3	124.4	111.8	104.1	100.0	100.0
120°	378.1	285.9	220.2	176.8	146.1	125.1	111.1	102.8	99.3	98.6
122.5°	376.8	289.4	225.1	181.0	148.9	126.5	111.1	102.1	97.9	97.9
125°	374.7	291.5	228.6	184.5	151.0	127.2	111.1	102.1	97.2	96.5
127.5°	371.2	292.9	232.8	188.0	153.1	128.6	111.1	101.4	96.5	95.8
130°	367.0	293.6	234.9	190.8	155.2	129.3	111.8	101.4	96.5	95.8
132.5°	360.7	292.9	236.3	192.9	157.3	130.7	112.5	101.4	96.5	95.8
135°	354.4	290.8	237.0	194.3	158.7	132.1	113.2	101.4	96.5	95.8
137.5°	345.3	287.3	237.0	195.0	159.4	132.8	113.9	102.1	97.2	96.5
140°	335.5	281.7	234.2	195.0	160.1	134.2	115.3	103.4	97.9	97.2
142.5°	324.3	276.1	232.1	193.6	160.1	134.9	116.0	104.1	98.6	98.6
145°	312.4	269.1	227.9	192.9	160.1	135.6	117.4	105.5	100.0	100.0
147.5°	300.6	261.4	223.7	190.8	160.1	136.3	118.8	107.6	102.1	101.4
150°	287.3	251.6	217.4	186.6	158.7	136.3	119.5	109.0	103.4	102.8
152.5°	272.6	241.1	211.1	183.1	156.6	136.3	120.9	110.4	105.5	105.5
155°	257.9	230.0	203.4	178.2	155.2	137.0	123.0	113.2	108.3	108.3
157.5°	242.5	219.5	195.7	173.3	153.1	137.0	124.4	116.0	111.8	111.1
160°	227.9	208.3	188.0	167.8	151.0	137.0	125.8	118.1	114.6	113.9
162.5°	212.5	195.7	178.9	162.2	147.5	135.6	126.5	120.2	116.7	116.7
165°	197.1	183.8	168.5	155.9	144.0	134.9	127.2	121.6	118.8	118.8
167.5°	184.5	172.6	160.8	150.3	141.9	134.2	127.9	123.7	121.6	121.6
170°	171.9	162.9	154.5	146.8	139.8	133.5	129.3	126.5	124.4	124.4
172.5°	162.2	155.9	149.6	144.0	139.1	134.9	131.4	129.3	127.9	127.9
175°	155.2	151.0	147.5	143.3	140.5	137.7	135.6	134.2	133.5	134.2
177.5°	151.7	149.6	147.5	145.4	144.7	143.3	141.9	141.2	141.2	141.9
180°	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0

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