

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: P256842

Luminaire Tested: **ULA-A6-D-U-SYM-VMx-7027-HSS-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256842
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-7027-HSS-BK
Description: UTILITY LIGHT ACORN SYMMETRIC W/ HSS
Light Source: (90) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4325 lumens
Efficiency: N/A
Efficacy: 97.4 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

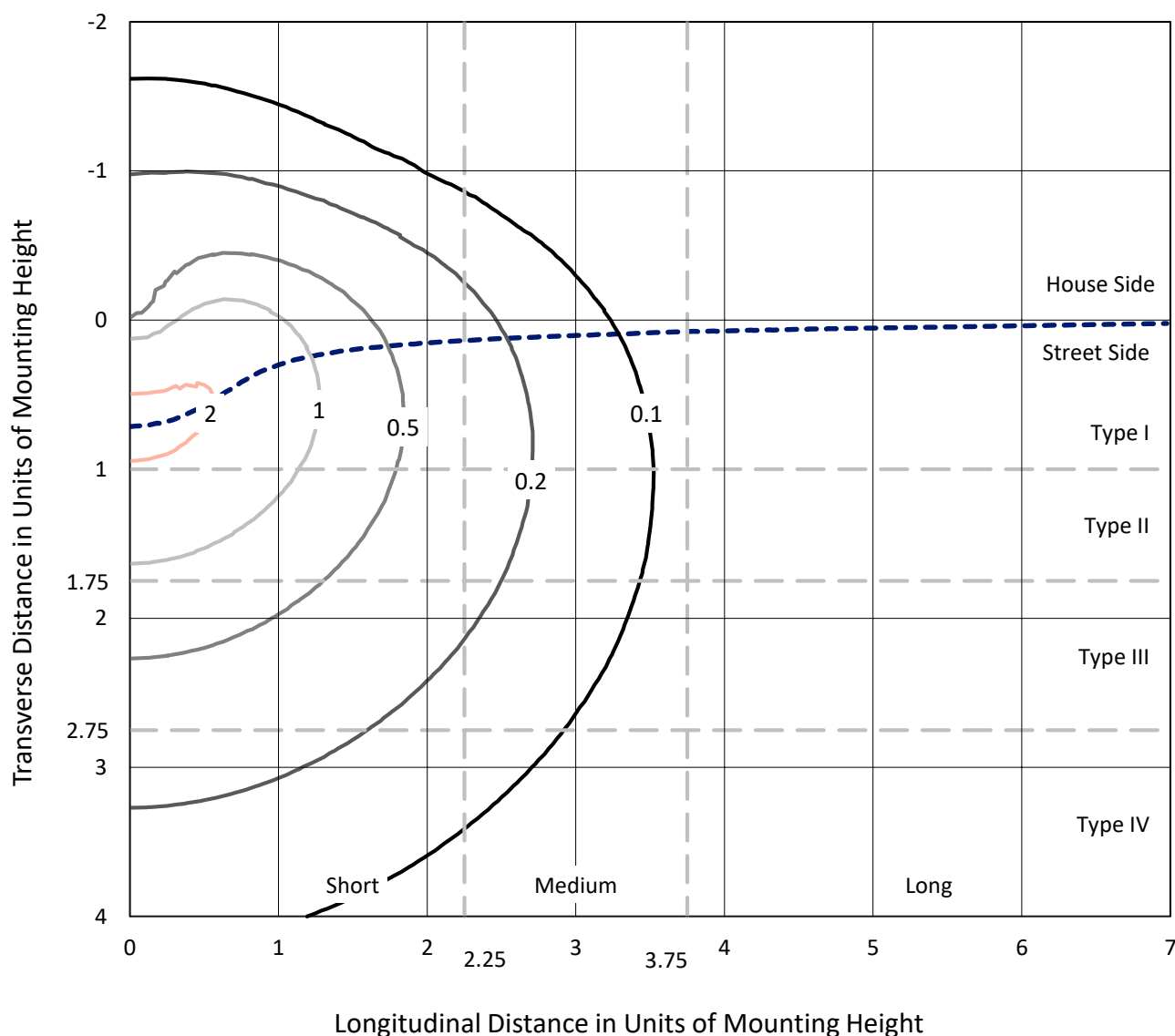


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

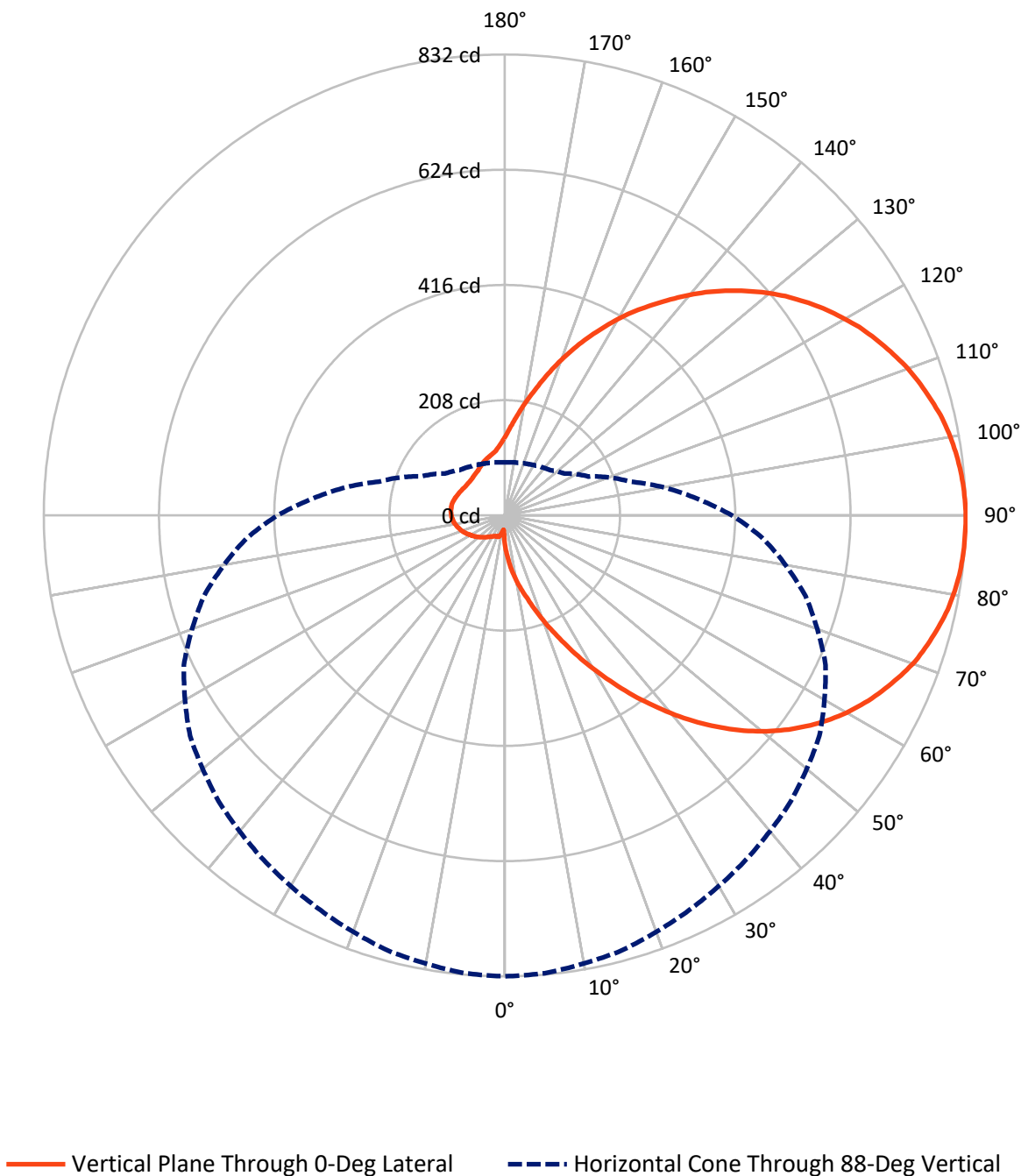


Based on 10 foot mounting height. Maximum calculated value = 2.2 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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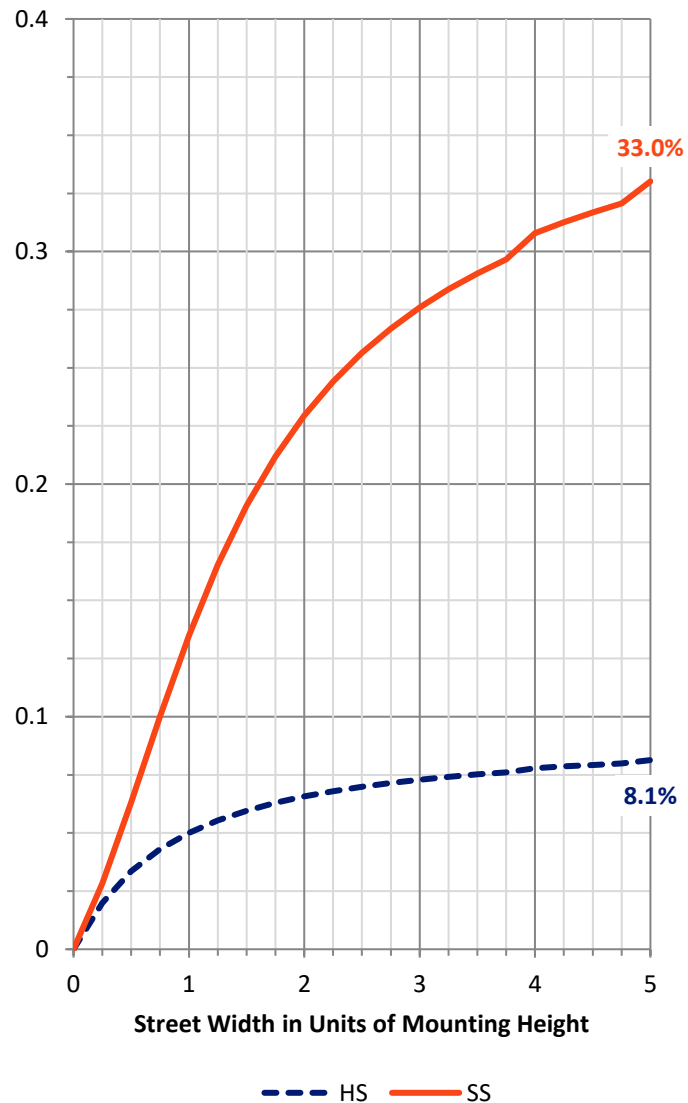
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	391.1	513.3	904.4
	% Fixture	9.0	11.9	20.9
Street Side	Lumens	1674.7	1745.9	3420.6
	% Fixture	38.7	40.4	79.1
Total	Lumens	2065.8	2259.3	4325.0
	% Fixture	47.8	52.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.1	0.1
10°-20°	29.2	0.7
20°-30°	73.5	1.7
30°-40°	143.1	3.3
40°-50°	227.3	5.3
50°-60°	309.7	7.2
60°-70°	380.3	8.8
70°-80°	433.6	10.0
80°-90°	462.8	10.7
90°-100°	465.6	10.8
100°-110°	441.7	10.2
110°-120°	396.5	9.2
120°-130°	335.7	7.8
130°-140°	261.5	6.0
140°-150°	182.1	4.2
150°-160°	109.6	2.5
160°-170°	52.3	1.2
170°-180°	14.2	0.3
0°-90°	2065.8	47.8
0°-180°	4325.0	100.0

Coefficient of Utilization



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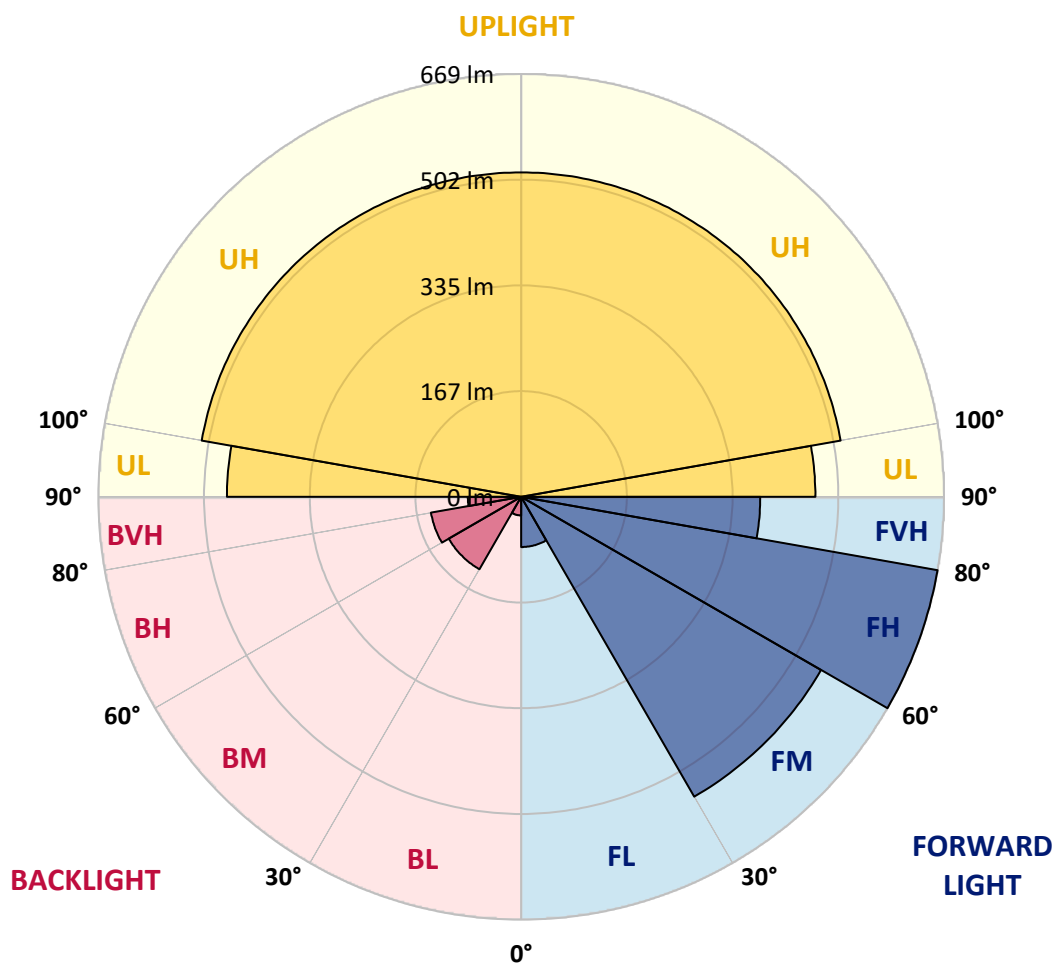
CATALOG NUMBER: ULA-A6-D-U-SYM-VMx-7027-HSS-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	79.5	1.8			
FM	(30°-60°)	547.8	12.7			
FH	(60°-80°)	669.1	15.5			G1/1800
FVH	(80°-90°)	378.3	8.7			G3/500
BL	(0°-30°)	29.4	0.7	B0/110		
BM	(30°-60°)	132.3	3.1	B0/220		
BH	(60°-80°)	144.9	3.3	B1/500		G1/500
BVH	(80°-90°)	84.5	2.0			G1/100
UL	(90°-100°)	465.6	10.8		U3/500	
UH	(100°-180°)	513.3	11.9		U4/1000	

BUG Rating: B1-U5-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
2.5°	68.6	68.6	67.3	68.0	66.1	64.8	62.2	59.7	57.7	55.2	53.9
5°	87.2	86.0	84.7	83.4	80.2	77.0	73.8	69.3	64.8	60.3	57.7
7.5°	104.6	103.9	101.3	99.4	95.6	91.7	87.2	81.5	76.3	70.6	67.3
10°	121.9	121.2	118.7	116.7	112.2	108.4	102.6	96.2	89.8	82.1	78.3
12.5°	139.2	138.5	136.0	134.7	130.9	126.4	119.9	111.6	103.9	94.9	90.4
15°	157.1	157.1	156.5	153.9	149.5	145.0	138.5	128.9	119.3	108.4	103.3
17.5°	180.9	179.6	177.7	175.8	171.9	166.8	157.1	148.2	136.0	123.2	115.5
20°	205.3	204.0	202.7	200.1	195.0	189.9	180.2	169.3	153.9	138.5	128.9
22.5°	231.6	230.3	229.0	226.4	221.3	215.5	205.3	192.4	176.4	156.5	144.3
25°	260.4	260.4	258.5	255.9	250.2	244.4	232.2	218.1	199.5	175.8	162.3
27.5°	293.1	291.2	290.6	287.4	282.2	275.2	262.3	245.7	223.9	196.3	181.5
30°	325.8	325.2	324.6	320.7	314.9	307.2	292.5	275.2	248.9	216.8	199.5
32.5°	361.1	361.8	359.2	354.7	348.3	340.0	323.9	303.4	275.2	237.3	217.4
35°	399.0	398.3	394.5	391.3	382.9	372.7	354.7	331.6	299.5	257.2	234.8
37.5°	435.5	436.2	432.3	427.2	417.6	406.0	386.1	359.8	322.6	276.5	251.4
40°	473.4	474.0	469.5	461.8	451.6	438.1	416.3	387.4	346.4	295.1	266.2
42.5°	510.6	510.6	506.1	498.4	484.3	468.9	445.1	413.7	368.2	311.7	280.9
45°	545.9	545.9	540.1	530.5	515.1	497.7	472.1	437.5	388.1	327.1	293.8
47.5°	580.5	579.8	573.4	560.6	545.9	526.0	499.0	459.3	407.3	341.9	305.3
50°	612.6	612.6	603.6	589.5	570.9	551.0	522.1	480.4	425.3	355.3	316.2
52.5°	642.1	641.4	631.8	616.4	595.9	574.7	543.9	499.7	440.7	367.5	326.5
55°	669.0	668.4	657.5	640.1	619.0	595.9	563.8	517.6	456.1	379.1	335.5
57.5°	694.0	693.4	680.6	661.3	640.1	615.8	582.4	534.3	470.2	390.0	344.4
60°	716.5	715.2	702.4	681.2	658.7	633.7	600.4	550.3	483.0	399.6	352.8
62.5°	736.4	735.1	721.0	699.2	675.4	649.8	614.5	563.8	494.5	409.2	359.8
65°	754.3	753.0	738.9	715.2	690.8	664.5	628.6	576.6	505.4	417.6	367.5
67.5°	771.0	769.7	753.7	729.3	704.9	678.0	642.1	588.8	515.7	425.9	374.6
70°	786.4	783.8	767.1	742.8	716.5	688.9	653.6	599.7	525.3	433.6	381.0
72.5°	797.9	796.0	779.3	753.7	727.4	700.4	663.9	608.7	534.3	440.7	386.8
75°	808.2	806.9	789.6	763.3	736.4	708.8	672.9	616.4	541.4	447.7	392.6
77.5°	817.2	814.6	797.9	771.6	744.1	715.8	679.9	624.1	547.8	452.8	397.0
80°	823.6	821.7	804.3	777.4	749.8	721.6	685.7	629.9	552.9	457.3	400.9
82.5°	828.1	825.5	808.8	781.9	754.3	725.4	689.5	633.1	556.8	461.2	404.7
85°	830.6	828.7	811.4	785.1	756.9	728.0	692.1	636.3	560.0	464.4	407.3
87.5°	831.3	830.0	813.3	786.4	758.2	729.9	693.4	638.2	561.9	466.3	409.2
88°	831.9	829.4	813.3	786.4	758.8	729.9	693.4	638.9	561.9	467.0	409.9
90°	831.9	829.4	813.3	787.0	758.8	729.3	694.0	639.5	562.5	467.6	411.2
92.5°	830.0	828.1	812.0	786.4	758.2	728.7	693.4	638.9	563.2	468.9	412.4
95°	826.8	824.9	809.5	783.8	755.6	726.7	691.5	637.6	562.5	468.9	412.4
97.5°	821.7	819.7	805.0	779.3	751.7	722.9	687.6	635.0	560.6	468.2	412.4
100°	815.2	813.3	798.6	773.6	746.0	717.8	683.1	631.8	558.0	467.0	411.8
102.5°	806.9	804.3	790.2	765.9	739.6	711.3	677.3	626.0	554.2	464.4	410.5
105°	795.4	794.1	780.6	756.9	729.9	703.0	669.6	620.3	549.7	461.2	407.9
107.5°	784.5	782.5	769.1	746.0	721.0	694.7	661.9	613.2	544.6	458.0	406.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	771.6	769.7	756.2	734.4	709.4	684.4	652.3	605.5	538.8	454.1	404.1
112.5°	756.2	755.0	741.5	721.0	697.2	673.5	642.7	597.2	532.4	450.3	401.5
115°	740.8	738.9	726.1	706.8	683.8	661.3	631.8	587.5	524.7	445.8	399.0
117.5°	724.2	722.2	709.4	690.8	669.6	647.8	619.6	577.3	517.0	440.7	395.8
120°	704.9	703.6	691.5	674.1	654.9	633.7	606.1	566.4	508.6	435.5	392.6
122.5°	685.7	683.8	672.9	656.8	638.9	619.0	592.7	554.8	499.0	429.1	388.7
125°	664.5	663.2	653.0	638.2	621.5	602.9	577.9	540.7	488.8	422.7	384.2
127.5°	642.7	640.8	631.2	617.7	602.9	585.0	561.9	527.3	477.9	414.4	379.1
130°	619.0	617.7	608.7	596.5	581.8	565.7	543.9	511.2	465.0	405.4	372.0
132.5°	594.0	592.7	585.0	574.7	560.0	545.2	524.7	493.3	450.3	395.1	364.3
135°	568.3	567.7	560.6	551.0	537.5	524.0	504.2	475.3	435.5	384.2	355.3
137.5°	542.0	541.4	534.9	525.3	515.1	501.0	482.4	455.4	418.8	371.4	344.4
140°	513.8	513.1	508.0	499.0	488.1	476.6	458.6	434.2	400.2	356.6	332.9
142.5°	485.6	484.9	480.4	474.0	463.7	451.6	434.9	411.8	381.6	341.9	320.1
145°	458.0	457.3	453.5	447.1	437.5	426.5	410.5	390.6	362.4	326.5	307.2
147.5°	431.7	430.4	427.2	422.1	413.1	402.2	387.4	368.8	343.2	311.1	293.8
150°	403.5	402.8	399.0	395.1	386.1	377.2	363.0	347.0	323.3	294.4	279.0
152.5°	375.2	374.6	372.0	367.5	359.8	351.5	338.7	323.9	303.4	277.7	264.3
155°	347.7	347.0	344.4	341.2	333.5	325.8	314.3	300.8	282.2	260.4	248.2
157.5°	320.1	320.1	318.8	314.9	307.9	300.8	289.3	279.0	262.3	243.1	233.5
160°	293.1	293.1	292.5	288.6	282.9	276.5	266.2	255.9	243.1	226.4	218.1
162.5°	266.8	265.5	266.2	263.6	257.9	252.7	243.7	235.4	223.2	209.1	202.0
165°	241.8	241.2	241.8	239.3	234.1	229.6	221.3	214.9	204.6	192.4	187.3
167.5°	219.4	219.4	218.7	216.8	212.3	208.5	202.0	196.3	187.9	178.3	173.8
170°	199.5	198.2	198.8	196.9	193.7	190.5	184.7	179.6	173.2	165.5	162.3
172.5°	180.9	179.6	180.2	178.3	176.4	173.8	170.0	165.5	160.4	153.3	151.4
175°	164.2	163.6	163.6	162.3	161.0	159.1	155.2	152.7	149.5	145.6	144.3
177.5°	149.5	148.2	148.8	148.2	147.5	146.9	145.6	144.3	142.4	140.5	139.8
180°	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5



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CATALOG NUMBER: ULA-A6-D-U-SYM-VMx-7027-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
2.5°	52.6	50.0	46.8	43.6	40.4	37.8	36.6	34.6	34.6	33.4
5°	55.2	50.0	44.9	40.4	35.9	32.1	28.9	26.9	26.3	26.3
7.5°	64.1	58.4	52.0	46.2	41.1	36.6	32.7	29.5	28.2	27.6
10°	74.4	67.3	59.0	52.6	46.8	41.1	36.6	33.4	32.1	32.1
12.5°	85.3	76.3	66.7	58.4	50.7	44.9	40.4	37.8	36.6	35.9
15°	96.9	85.3	73.8	63.5	55.2	48.1	43.6	41.1	39.8	39.1
17.5°	108.4	94.3	80.8	68.6	58.4	51.3	45.5	41.7	40.4	40.4
20°	120.6	103.3	87.2	73.1	61.6	52.6	46.2	42.3	40.4	40.4
22.5°	134.7	113.5	93.6	77.6	64.1	54.5	47.5	43.0	40.4	40.4
25°	149.5	124.4	101.3	82.1	67.3	56.4	48.7	43.6	41.7	41.1
27.5°	166.1	135.3	109.0	86.6	70.6	58.4	50.0	44.9	42.3	42.3
30°	182.2	145.6	115.5	91.1	73.1	60.3	51.3	46.2	43.6	43.6
32.5°	197.6	155.9	121.2	94.9	75.7	62.2	53.2	47.5	45.5	44.9
35°	211.7	165.5	126.4	97.5	77.6	64.1	55.2	49.4	46.8	46.8
37.5°	225.1	173.8	130.9	100.1	79.5	65.4	57.1	51.3	48.7	48.7
40°	237.3	180.9	134.1	102.0	80.8	67.3	59.0	53.2	51.3	50.7
42.5°	248.9	186.7	136.6	103.3	82.1	69.3	60.9	55.8	53.2	53.2
45°	258.5	191.8	139.2	104.6	83.4	70.6	62.9	57.7	55.8	55.2
47.5°	267.5	196.3	140.5	105.8	84.7	72.5	64.8	60.3	58.4	57.7
50°	275.8	199.5	141.8	106.5	86.0	74.4	66.7	62.9	60.9	60.3
52.5°	283.5	202.7	142.4	107.1	87.2	75.7	69.3	64.8	62.9	62.9
55°	289.9	205.9	143.7	108.4	88.5	78.3	71.2	68.0	66.1	65.4
57.5°	297.0	208.5	145.0	109.0	90.4	80.2	73.8	70.6	68.6	68.0
60°	302.8	211.0	146.2	110.3	91.7	82.1	76.3	73.1	71.2	70.6
62.5°	308.5	213.0	146.9	111.6	93.6	84.7	78.9	75.7	73.8	73.1
65°	313.7	215.5	148.8	113.5	95.6	86.6	81.5	78.3	76.3	76.3
67.5°	318.8	218.1	150.1	114.8	98.1	89.2	84.0	80.8	78.9	78.9
70°	323.9	220.0	151.4	116.7	100.1	91.7	86.6	83.4	81.5	81.5
72.5°	328.4	222.6	153.3	119.3	102.6	94.3	89.2	86.0	84.0	84.0
75°	332.3	224.5	155.2	121.2	104.6	96.9	91.7	88.5	86.6	86.0
77.5°	336.7	227.1	157.8	123.2	107.1	99.4	94.3	91.1	88.5	88.5
80°	340.0	228.3	159.7	125.1	109.7	101.3	96.2	93.0	91.1	90.4
82.5°	343.2	230.9	161.6	127.0	111.6	103.3	98.1	94.9	93.0	92.4
85°	345.1	232.2	162.9	128.9	113.5	105.2	100.1	96.2	94.3	93.6
87.5°	347.0	234.1	164.8	130.9	115.5	107.1	102.0	98.1	95.6	94.9
88°	347.7	234.8	166.1	131.5	115.5	107.8	102.0	98.1	96.2	95.6
90°	348.9	236.0	167.4	132.8	116.7	108.4	103.3	98.8	96.9	96.2
92.5°	349.6	237.3	168.7	134.1	118.7	109.7	103.9	100.1	97.5	96.9
95°	350.9	238.6	170.6	136.0	119.9	111.0	104.6	100.7	98.1	97.5
97.5°	350.9	239.9	172.5	137.3	120.6	111.6	105.2	100.7	98.1	97.5
100°	350.9	241.2	174.5	138.5	121.9	111.6	105.2	100.7	98.1	97.5
102.5°	350.2	243.1	176.4	140.5	122.5	112.2	105.2	100.1	97.5	97.5
105°	349.6	244.4	178.3	142.4	123.8	112.2	104.6	99.4	96.9	96.9
107.5°	349.6	246.9	181.5	144.3	124.4	112.2	103.9	98.8	96.2	95.6



REPORT NUMBER: P256842

CATALOG NUMBER: ULA-A6-D-U-SYM-VMx-7027-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	348.9	249.5	185.4	147.5	126.4	112.9	103.9	98.1	94.9	94.9
112.5°	348.3	252.7	188.6	150.1	127.6	112.9	103.3	96.9	94.3	93.6
115°	348.9	255.9	193.1	153.3	129.6	113.5	102.6	96.2	93.0	92.4
117.5°	347.7	259.1	197.6	157.1	131.5	114.2	102.6	95.6	91.7	91.7
120°	347.0	262.3	202.0	162.3	134.1	114.8	102.0	94.3	91.1	90.4
122.5°	345.7	265.5	206.5	166.1	136.6	116.1	102.0	93.6	89.8	89.8
125°	343.8	267.5	209.7	169.3	138.5	116.7	102.0	93.6	89.2	88.5
127.5°	340.6	268.8	213.6	172.5	140.5	118.0	102.0	93.0	88.5	87.9
130°	336.7	269.4	215.5	175.1	142.4	118.7	102.6	93.0	88.5	87.9
132.5°	331.0	268.8	216.8	177.0	144.3	119.9	103.3	93.0	88.5	87.9
135°	325.2	266.8	217.4	178.3	145.6	121.2	103.9	93.0	88.5	87.9
137.5°	316.9	263.6	217.4	179.0	146.2	121.9	104.6	93.6	89.2	88.5
140°	307.9	258.5	214.9	179.0	146.9	123.2	105.8	94.9	89.8	89.2
142.5°	297.6	253.4	213.0	177.7	146.9	123.8	106.5	95.6	90.4	90.4
145°	286.7	246.9	209.1	177.0	146.9	124.4	107.8	96.9	91.7	91.7
147.5°	275.8	239.9	205.3	175.1	146.9	125.1	109.0	98.8	93.6	93.0
150°	263.6	230.9	199.5	171.3	145.6	125.1	109.7	100.1	94.9	94.3
152.5°	250.2	221.3	193.7	168.1	143.7	125.1	111.0	101.3	96.9	96.9
155°	236.7	211.0	186.7	163.6	142.4	125.7	112.9	103.9	99.4	99.4
157.5°	222.6	201.4	179.6	159.1	140.5	125.7	114.2	106.5	102.6	102.0
160°	209.1	191.1	172.5	153.9	138.5	125.7	115.5	108.4	105.2	104.6
162.5°	195.0	179.6	164.2	148.8	135.3	124.4	116.1	110.3	107.1	107.1
165°	180.9	168.7	154.6	143.0	132.1	123.8	116.7	111.6	109.0	109.0
167.5°	169.3	158.4	147.5	137.9	130.2	123.2	117.4	113.5	111.6	111.6
170°	157.8	149.5	141.8	134.7	128.3	122.5	118.7	116.1	114.2	114.2
172.5°	148.8	143.0	137.3	132.1	127.6	123.8	120.6	118.7	117.4	117.4
175°	142.4	138.5	135.3	131.5	128.9	126.4	124.4	123.2	122.5	123.2
177.5°	139.2	137.3	135.3	133.4	132.8	131.5	130.2	129.6	129.6	130.2
180°	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5

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