

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: P274489

Luminaire Tested: **ULA-A8-D-U-SYM-VMx-HSS-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274489
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-A8-D-U-SYM-VMx-HSS-BK
Description: UTILITY LIGHT ACORN TYPE V SYMMETRIC W/ HOUSE SIDE SHIELD
Light Source: (180) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6670.9 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 2.17')
IES Classification: Type IV - 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



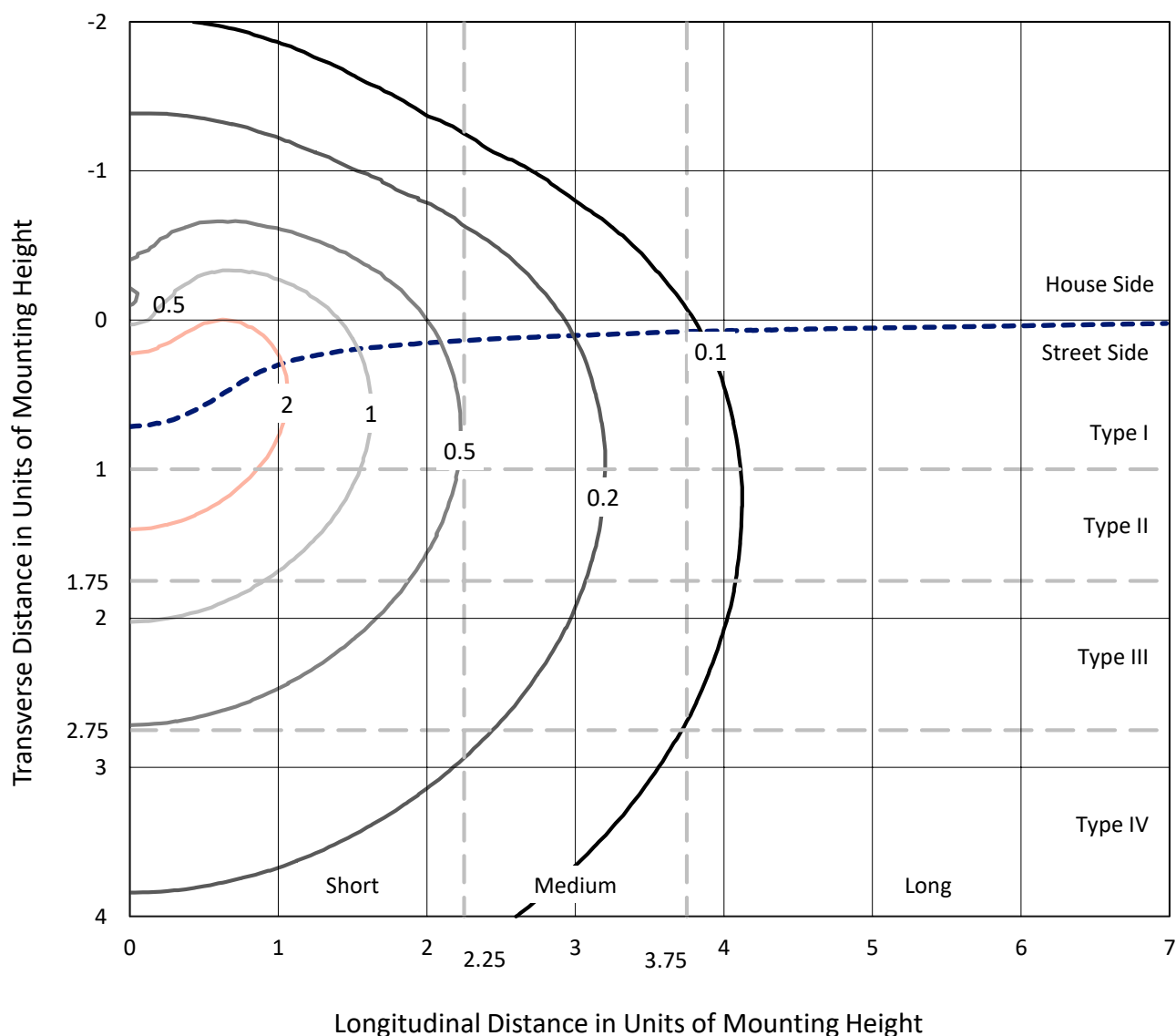
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

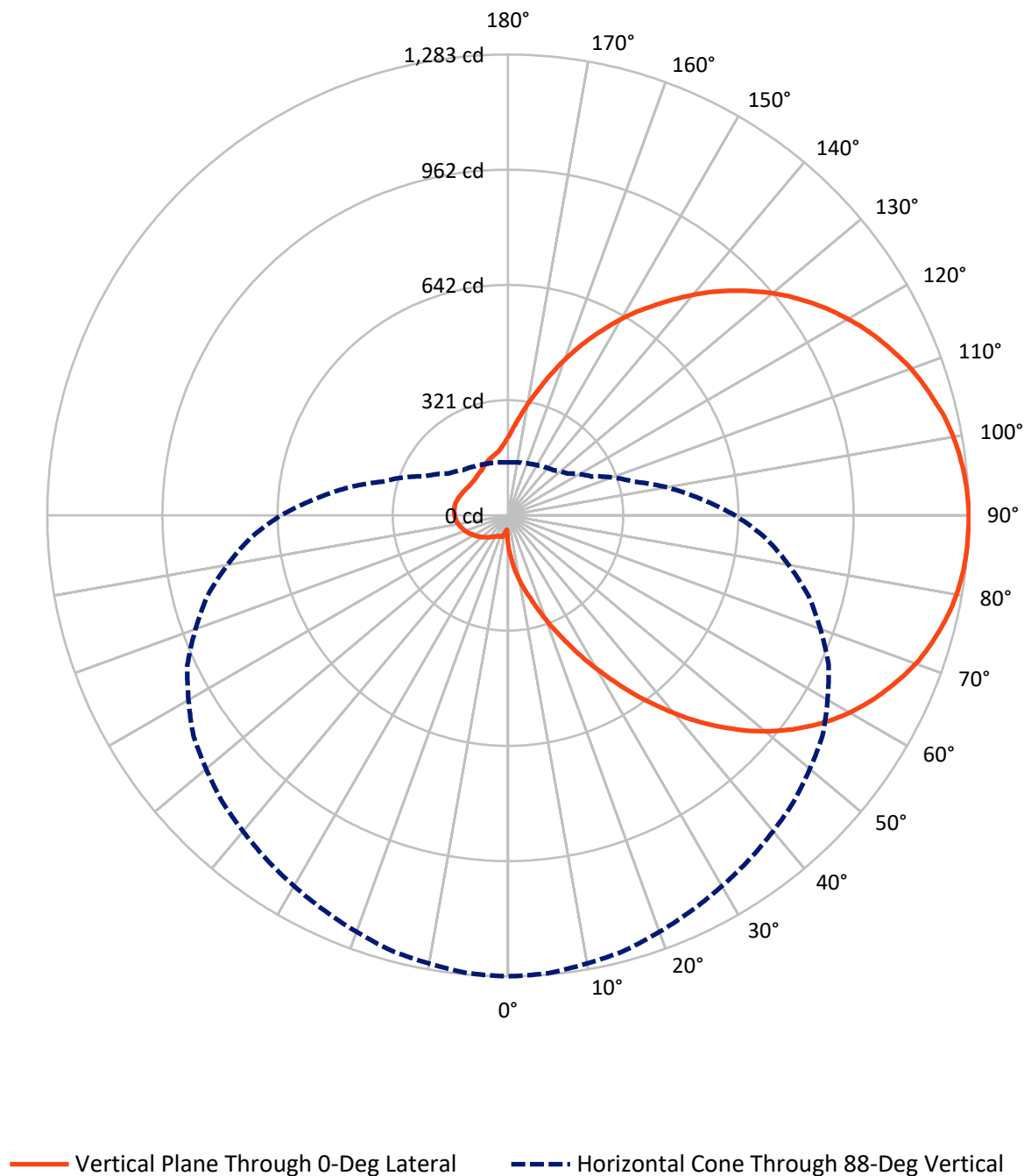


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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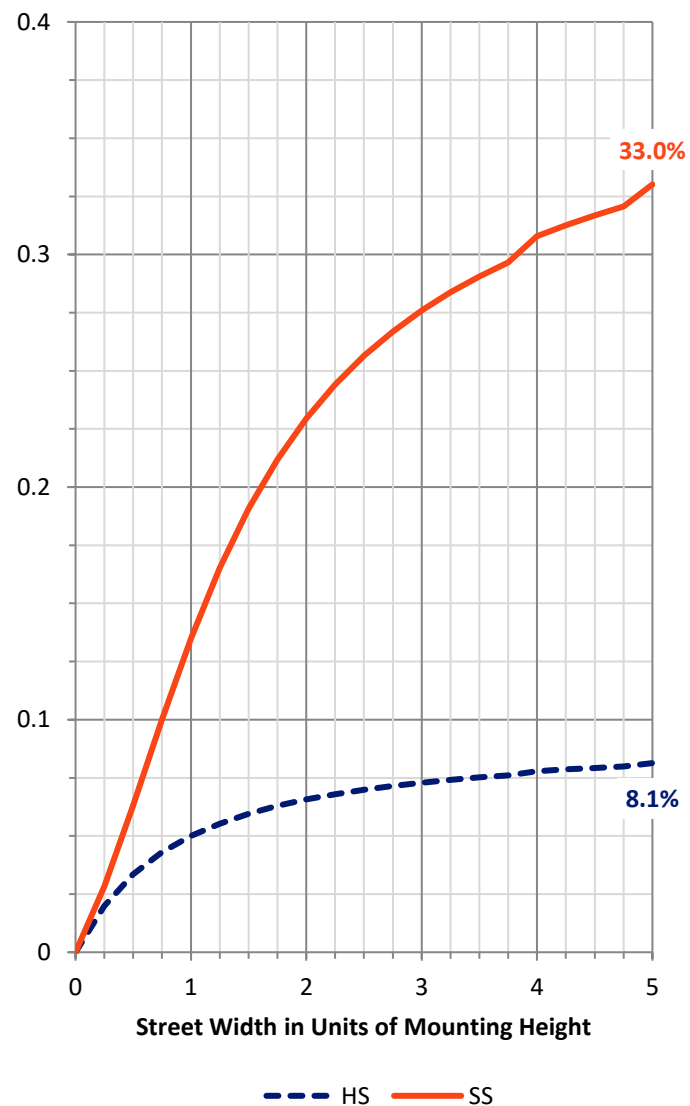
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	603.2	791.7	1395.0
	% Fixture	9.0	11.9	20.9
Street Side	Lumens	2583.0	2693.0	5276.0
	% Fixture	38.7	40.4	79.1
Total	Lumens	3186.2	3484.7	6670.9
	% Fixture	47.8	52.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.5	0.1
10°-20°	45.1	0.7
20°-30°	113.4	1.7
30°-40°	220.7	3.3
40°-50°	350.6	5.3
50°-60°	477.7	7.2
60°-70°	586.6	8.8
70°-80°	668.8	10.0
80°-90°	713.8	10.7
90°-100°	718.1	10.8
100°-110°	681.2	10.2
110°-120°	611.6	9.2
120°-130°	517.8	7.8
130°-140°	403.4	6.0
140°-150°	280.8	4.2
150°-160°	169.1	2.5
160°-170°	80.7	1.2
170°-180°	21.9	0.3
0°-90°	3186.2	47.8
0°-180°	6670.9	100.0

Coefficient of Utilization



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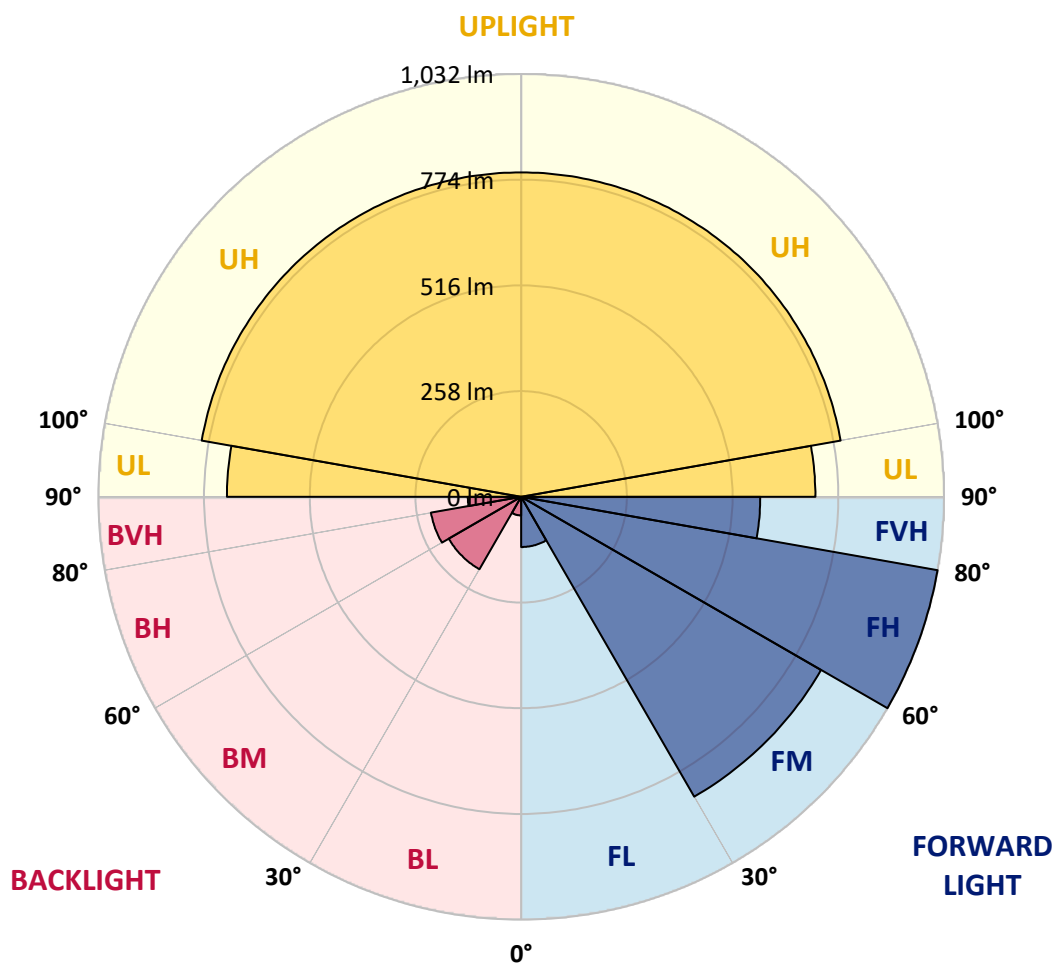
CATALOG NUMBER: ULA-A8-D-U-SYM-VMx-HSS-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	122.6	1.8			
FM	(30°-60°)	845.0	12.7			
FH	(60°-80°)	1032.0	15.5			G1/1800
FVH	(80°-90°)	583.5	8.7			G4/750
BL	(0°-30°)	45.4	0.7	B0/110		
BM	(30°-60°)	204.0	3.1	B0/220		
BH	(60°-80°)	223.4	3.3	B1/500		G1/500
BVH	(80°-90°)	130.3	2.0			G2/225
UL	(90°-100°)	718.1	10.8		U4/1000	
UH	(100°-180°)	791.7	11.9		U4/1000	

BUG Rating: B1-U5-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
2.5°	105.9	105.9	103.9	104.9	101.9	99.9	96.0	92.0	89.0	85.1	83.1
5°	134.5	132.6	130.6	128.6	123.7	118.7	113.8	106.8	99.9	93.0	89.0
7.5°	161.3	160.3	156.3	153.3	147.4	141.5	134.5	125.6	117.7	108.8	103.9
10°	188.0	187.0	183.0	180.1	173.1	167.2	158.3	148.4	138.5	126.6	120.7
12.5°	214.7	213.7	209.7	207.8	201.8	194.9	185.0	172.1	160.3	146.4	139.5
15°	242.4	242.4	241.4	237.4	230.5	223.6	213.7	198.9	184.0	167.2	159.3
17.5°	279.0	277.0	274.0	271.1	265.1	257.2	242.4	228.5	209.7	190.0	178.1
20°	316.6	314.6	312.6	308.7	300.8	292.8	278.0	261.2	237.4	213.7	198.9
22.5°	357.1	355.2	353.2	349.2	341.3	332.4	316.6	296.8	272.1	241.4	222.6
25°	401.7	401.7	398.7	394.7	385.8	376.9	358.1	336.4	307.7	271.1	250.3
27.5°	452.1	449.2	448.2	443.2	435.3	424.4	404.6	378.9	345.3	302.7	280.0
30°	502.6	501.6	500.6	494.7	485.8	473.9	451.1	424.4	383.9	334.4	307.7
32.5°	557.0	558.0	554.0	547.1	537.2	524.3	499.6	468.0	424.4	366.1	335.4
35°	615.4	614.4	608.4	603.5	590.6	574.8	547.1	511.5	462.0	396.7	362.1
37.5°	671.8	672.7	666.8	658.9	644.1	626.2	595.6	555.0	497.6	426.4	387.8
40°	730.1	731.1	724.2	712.3	696.5	675.7	642.1	597.6	534.2	455.1	410.6
42.5°	787.5	787.5	780.6	768.7	746.9	723.2	686.6	638.1	567.9	480.8	433.3
45°	841.9	841.9	833.0	818.2	794.4	767.7	728.2	674.7	598.5	504.6	453.1
47.5°	895.3	894.4	884.5	864.7	841.9	811.3	769.7	708.4	628.2	527.3	470.9
50°	944.8	944.8	931.0	909.2	880.5	849.8	805.3	741.0	655.9	548.1	487.7
52.5°	990.3	989.3	974.5	950.8	919.1	886.4	839.0	770.7	679.7	566.9	503.6
55°	1031.9	1030.9	1014.1	987.4	954.7	919.1	869.6	798.4	703.4	584.7	517.4
57.5°	1070.5	1069.5	1049.7	1020.0	987.4	949.8	898.3	824.1	725.2	601.5	531.3
60°	1105.1	1103.1	1083.3	1050.7	1016.0	977.5	926.0	848.8	745.0	616.4	544.1
62.5°	1135.8	1133.8	1112.0	1078.4	1041.8	1002.2	947.8	869.6	762.8	631.2	555.0
65°	1163.5	1161.5	1139.7	1103.1	1065.5	1025.0	969.5	889.4	779.6	644.1	566.9
67.5°	1189.2	1187.2	1162.5	1124.9	1087.3	1045.7	990.3	908.2	795.4	656.9	577.8
70°	1212.9	1209.0	1183.2	1145.6	1105.1	1062.5	1008.1	925.0	810.3	668.8	587.7
72.5°	1230.7	1227.8	1202.0	1162.5	1121.9	1080.4	1024.0	938.9	824.1	679.7	596.6
75°	1246.6	1244.6	1217.9	1177.3	1135.8	1093.2	1037.8	950.8	835.0	690.6	605.5
77.5°	1260.4	1256.5	1230.7	1190.2	1147.6	1104.1	1048.7	962.6	844.9	698.5	612.4
80°	1270.3	1267.3	1240.6	1199.1	1156.5	1113.0	1057.6	971.5	852.8	705.4	618.3
82.5°	1277.2	1273.3	1247.6	1206.0	1163.5	1118.9	1063.5	976.5	858.7	711.3	624.3
85°	1281.2	1278.2	1251.5	1210.9	1167.4	1122.9	1067.5	981.4	863.7	716.3	628.2
87.5°	1282.2	1280.2	1254.5	1212.9	1169.4	1125.9	1069.5	984.4	866.7	719.2	631.2
88°	1283.2	1279.2	1254.5	1212.9	1170.4	1125.9	1069.5	985.4	866.7	720.2	632.2
90°	1283.2	1279.2	1254.5	1213.9	1170.4	1124.9	1070.5	986.4	867.6	721.2	634.2
92.5°	1280.2	1277.2	1252.5	1212.9	1169.4	1123.9	1069.5	985.4	868.6	723.2	636.1
95°	1275.3	1272.3	1248.5	1209.0	1165.4	1120.9	1066.5	983.4	867.6	723.2	636.1
97.5°	1267.3	1264.4	1241.6	1202.0	1159.5	1115.0	1060.6	979.4	864.7	722.2	636.1
100°	1257.4	1254.5	1231.7	1193.1	1150.6	1107.1	1053.6	974.5	860.7	720.2	635.2
102.5°	1244.6	1240.6	1218.9	1181.3	1140.7	1097.2	1044.7	965.6	854.8	716.3	633.2
105°	1226.8	1224.8	1204.0	1167.4	1125.9	1084.3	1032.9	956.7	847.9	711.3	629.2
107.5°	1210.0	1207.0	1186.2	1150.6	1112.0	1071.4	1021.0	945.8	839.9	706.4	626.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	1190.2	1187.2	1166.4	1132.8	1094.2	1055.6	1006.2	933.9	831.0	700.4	623.3
112.5°	1166.4	1164.4	1143.7	1112.0	1075.4	1038.8	991.3	921.1	821.1	694.5	619.3
115°	1142.7	1139.7	1119.9	1090.2	1054.6	1020.0	974.5	906.2	809.3	687.6	615.4
117.5°	1117.0	1114.0	1094.2	1065.5	1032.9	999.2	955.7	890.4	797.4	679.7	610.4
120°	1087.3	1085.3	1066.5	1039.8	1010.1	977.5	934.9	873.6	784.5	671.8	605.5
122.5°	1057.6	1054.6	1037.8	1013.1	985.4	954.7	914.1	855.8	769.7	661.9	599.5
125°	1025.0	1023.0	1007.1	984.4	958.7	930.0	891.4	834.0	753.9	652.0	592.6
127.5°	991.3	988.3	973.5	952.7	930.0	902.3	866.7	813.2	737.1	639.1	584.7
130°	954.7	952.7	938.9	920.1	897.3	872.6	839.0	788.5	717.3	625.3	573.8
132.5°	916.1	914.1	902.3	886.4	863.7	840.9	809.3	760.8	694.5	609.4	561.9
135°	876.6	875.6	864.7	849.8	829.1	808.3	777.6	733.1	671.8	592.6	548.1
137.5°	836.0	835.0	825.1	810.3	794.4	772.7	744.0	702.4	646.0	572.8	531.3
140°	792.5	791.5	783.6	769.7	752.9	735.1	707.4	669.8	617.3	550.1	513.5
142.5°	748.9	747.9	741.0	731.1	715.3	696.5	670.8	635.2	588.7	527.3	493.7
145°	706.4	705.4	699.5	689.6	674.7	657.9	633.2	602.5	559.0	503.6	473.9
147.5°	665.8	663.8	658.9	651.0	637.1	620.3	597.6	568.9	529.3	479.8	453.1
150°	622.3	621.3	615.4	609.4	595.6	581.7	560.0	535.2	498.6	454.1	430.4
152.5°	578.8	577.8	573.8	566.9	555.0	542.2	522.4	499.6	468.0	428.4	407.6
155°	536.2	535.2	531.3	526.3	514.5	502.6	484.8	464.0	435.3	401.7	382.9
157.5°	493.7	493.7	491.7	485.8	474.9	464.0	446.2	430.4	404.6	375.0	360.1
160°	452.1	452.1	451.1	445.2	436.3	426.4	410.6	394.7	375.0	349.2	336.4
162.5°	411.6	409.6	410.6	406.6	397.7	389.8	375.9	363.1	344.3	322.5	311.6
165°	373.0	372.0	373.0	369.0	361.1	354.2	341.3	331.4	315.6	296.8	288.9
167.5°	338.4	338.4	337.4	334.4	327.5	321.5	311.6	302.7	289.9	275.0	268.1
170°	307.7	305.7	306.7	303.7	298.8	293.8	284.9	277.0	267.1	255.2	250.3
172.5°	279.0	277.0	278.0	275.0	272.1	268.1	262.2	255.2	247.3	236.5	233.5
175°	253.3	252.3	252.3	250.3	248.3	245.4	239.4	235.5	230.5	224.6	222.6
177.5°	230.5	228.5	229.5	228.5	227.5	226.6	224.6	222.6	219.6	216.7	215.7
180°	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
2.5°	81.1	77.2	72.2	67.3	62.3	58.4	56.4	53.4	53.4	51.4
5°	85.1	77.2	69.3	62.3	55.4	49.5	44.5	41.6	40.6	40.6
7.5°	98.9	90.0	80.1	71.2	63.3	56.4	50.5	45.5	43.5	42.5
10°	114.8	103.9	91.0	81.1	72.2	63.3	56.4	51.4	49.5	49.5
12.5°	131.6	117.7	102.9	90.0	78.2	69.3	62.3	58.4	56.4	55.4
15°	149.4	131.6	113.8	97.9	85.1	74.2	67.3	63.3	61.3	60.3
17.5°	167.2	145.4	124.7	105.9	90.0	79.1	70.2	64.3	62.3	62.3
20°	186.0	159.3	134.5	112.8	95.0	81.1	71.2	65.3	62.3	62.3
22.5°	207.8	175.1	144.4	119.7	98.9	84.1	73.2	66.3	62.3	62.3
25°	230.5	191.9	156.3	126.6	103.9	87.1	75.2	67.3	64.3	63.3
27.5°	256.2	208.7	168.2	133.6	108.8	90.0	77.2	69.3	65.3	65.3
30°	281.0	224.6	178.1	140.5	112.8	93.0	79.1	71.2	67.3	67.3
32.5°	304.7	240.4	187.0	146.4	116.7	96.0	82.1	73.2	70.2	69.3
35°	326.5	255.2	194.9	150.4	119.7	98.9	85.1	76.2	72.2	72.2
37.5°	347.3	268.1	201.8	154.3	122.7	100.9	88.1	79.1	75.2	75.2
40°	366.1	279.0	206.8	157.3	124.7	103.9	91.0	82.1	79.1	78.2
42.5°	383.9	287.9	210.7	159.3	126.6	106.8	94.0	86.1	82.1	82.1
45°	398.7	295.8	214.7	161.3	128.6	108.8	97.0	89.0	86.1	85.1
47.5°	412.6	302.7	216.7	163.2	130.6	111.8	99.9	93.0	90.0	89.0
50°	425.4	307.7	218.6	164.2	132.6	114.8	102.9	97.0	94.0	93.0
52.5°	437.3	312.6	219.6	165.2	134.5	116.7	106.8	99.9	97.0	97.0
55°	447.2	317.6	221.6	167.2	136.5	120.7	109.8	104.9	101.9	100.9
57.5°	458.1	321.5	223.6	168.2	139.5	123.7	113.8	108.8	105.9	104.9
60°	467.0	325.5	225.6	170.2	141.5	126.6	117.7	112.8	109.8	108.8
62.5°	475.9	328.5	226.6	172.1	144.4	130.6	121.7	116.7	113.8	112.8
65°	483.8	332.4	229.5	175.1	147.4	133.6	125.6	120.7	117.7	117.7
67.5°	491.7	336.4	231.5	177.1	151.4	137.5	129.6	124.7	121.7	121.7
70°	499.6	339.3	233.5	180.1	154.3	141.5	133.6	128.6	125.6	125.6
72.5°	506.5	343.3	236.5	184.0	158.3	145.4	137.5	132.6	129.6	129.6
75°	512.5	346.3	239.4	187.0	161.3	149.4	141.5	136.5	133.6	132.6
77.5°	519.4	350.2	243.4	190.0	165.2	153.3	145.4	140.5	136.5	136.5
80°	524.3	352.2	246.3	192.9	169.2	156.3	148.4	143.5	140.5	139.5
82.5°	529.3	356.2	249.3	195.9	172.1	159.3	151.4	146.4	143.5	142.5
85°	532.3	358.1	251.3	198.9	175.1	162.3	154.3	148.4	145.4	144.4
87.5°	535.2	361.1	254.3	201.8	178.1	165.2	157.3	151.4	147.4	146.4
88°	536.2	362.1	256.2	202.8	178.1	166.2	157.3	151.4	148.4	147.4
90°	538.2	364.1	258.2	204.8	180.1	167.2	159.3	152.4	149.4	148.4
92.5°	539.2	366.1	260.2	206.8	183.0	169.2	160.3	154.3	150.4	149.4
95°	541.2	368.0	263.2	209.7	185.0	171.2	161.3	155.3	151.4	150.4
97.5°	541.2	370.0	266.1	211.7	186.0	172.1	162.3	155.3	151.4	150.4
100°	541.2	372.0	269.1	213.7	188.0	172.1	162.3	155.3	151.4	150.4
102.5°	540.2	375.0	272.1	216.7	189.0	173.1	162.3	154.3	150.4	150.4
105°	539.2	376.9	275.0	219.6	190.9	173.1	161.3	153.3	149.4	149.4
107.5°	539.2	380.9	280.0	222.6	191.9	173.1	160.3	152.4	148.4	147.4



REPORT NUMBER: P274489

CATALOG NUMBER: ULA-A8-D-U-SYM-VMx-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	538.2	384.9	285.9	227.5	194.9	174.1	160.3	151.4	146.4	146.4
112.5°	537.2	389.8	290.9	231.5	196.9	174.1	159.3	149.4	145.4	144.4
115°	538.2	394.7	297.8	236.5	199.8	175.1	158.3	148.4	143.5	142.5
117.5°	536.2	399.7	304.7	242.4	202.8	176.1	158.3	147.4	141.5	141.5
120°	535.2	404.6	311.6	250.3	206.8	177.1	157.3	145.4	140.5	139.5
122.5°	533.3	409.6	318.6	256.2	210.7	179.1	157.3	144.4	138.5	138.5
125°	530.3	412.6	323.5	261.2	213.7	180.1	157.3	144.4	137.5	136.5
127.5°	525.3	414.5	329.4	266.1	216.7	182.0	157.3	143.5	136.5	135.5
130°	519.4	415.5	332.4	270.1	219.6	183.0	158.3	143.5	136.5	135.5
132.5°	510.5	414.5	334.4	273.1	222.6	185.0	159.3	143.5	136.5	135.5
135°	501.6	411.6	335.4	275.0	224.6	187.0	160.3	143.5	136.5	135.5
137.5°	488.7	406.6	335.4	276.0	225.6	188.0	161.3	144.4	137.5	136.5
140°	474.9	398.7	331.4	276.0	226.6	190.0	163.2	146.4	138.5	137.5
142.5°	459.1	390.8	328.5	274.0	226.6	190.9	164.2	147.4	139.5	139.5
145°	442.2	380.9	322.5	273.1	226.6	191.9	166.2	149.4	141.5	141.5
147.5°	425.4	370.0	316.6	270.1	226.6	192.9	168.2	152.4	144.4	143.5
150°	406.6	356.2	307.7	264.2	224.6	192.9	169.2	154.3	146.4	145.4
152.5°	385.8	341.3	298.8	259.2	221.6	192.9	171.2	156.3	149.4	149.4
155°	365.1	325.5	287.9	252.3	219.6	193.9	174.1	160.3	153.3	153.3
157.5°	343.3	310.7	277.0	245.4	216.7	193.9	176.1	164.2	158.3	157.3
160°	322.5	294.8	266.1	237.4	213.7	193.9	178.1	167.2	162.3	161.3
162.5°	300.8	277.0	253.3	229.5	208.7	191.9	179.1	170.2	165.2	165.2
165°	279.0	260.2	238.4	220.6	203.8	190.9	180.1	172.1	168.2	168.2
167.5°	261.2	244.4	227.5	212.7	200.8	190.0	181.0	175.1	172.1	172.1
170°	243.4	230.5	218.6	207.8	197.9	189.0	183.0	179.1	176.1	176.1
172.5°	229.5	220.6	211.7	203.8	196.9	190.9	186.0	183.0	181.0	181.0
175°	219.6	213.7	208.7	202.8	198.9	194.9	191.9	190.0	189.0	190.0
177.5°	214.7	211.7	208.7	205.8	204.8	202.8	200.8	199.8	199.8	200.8
180°	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7

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