

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: P314551

Luminaire Tested: **MPN-A7-D-U-SYM-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPN-A7-D-U-SYM-7030
Description: NEW HAVEN POST TOP LUMINAIRE
(1) 70 CRI, 3000K LIGHT ENGINE. SYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6085 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U4 - G4

Input Watts (W): 68.7
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



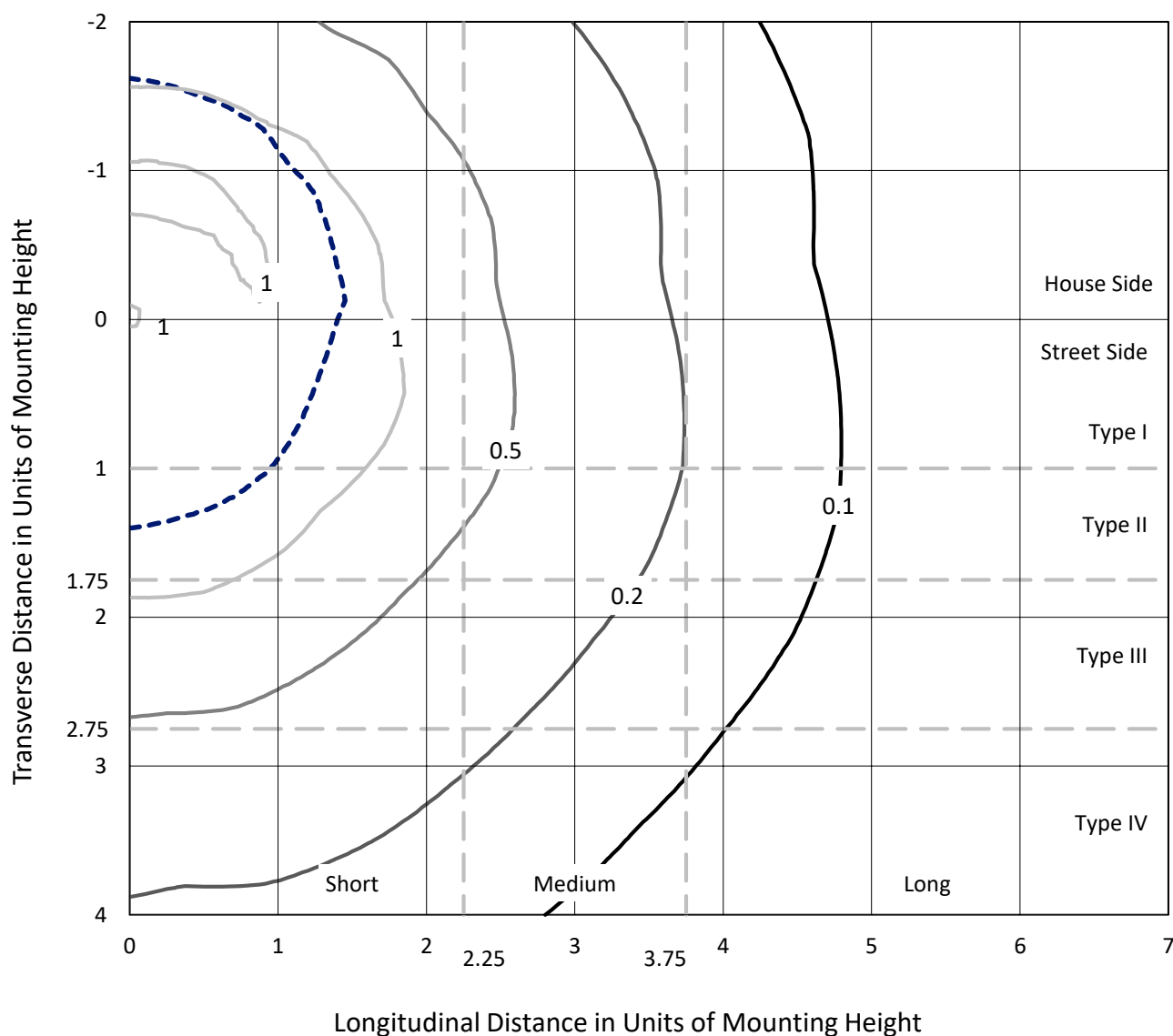
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

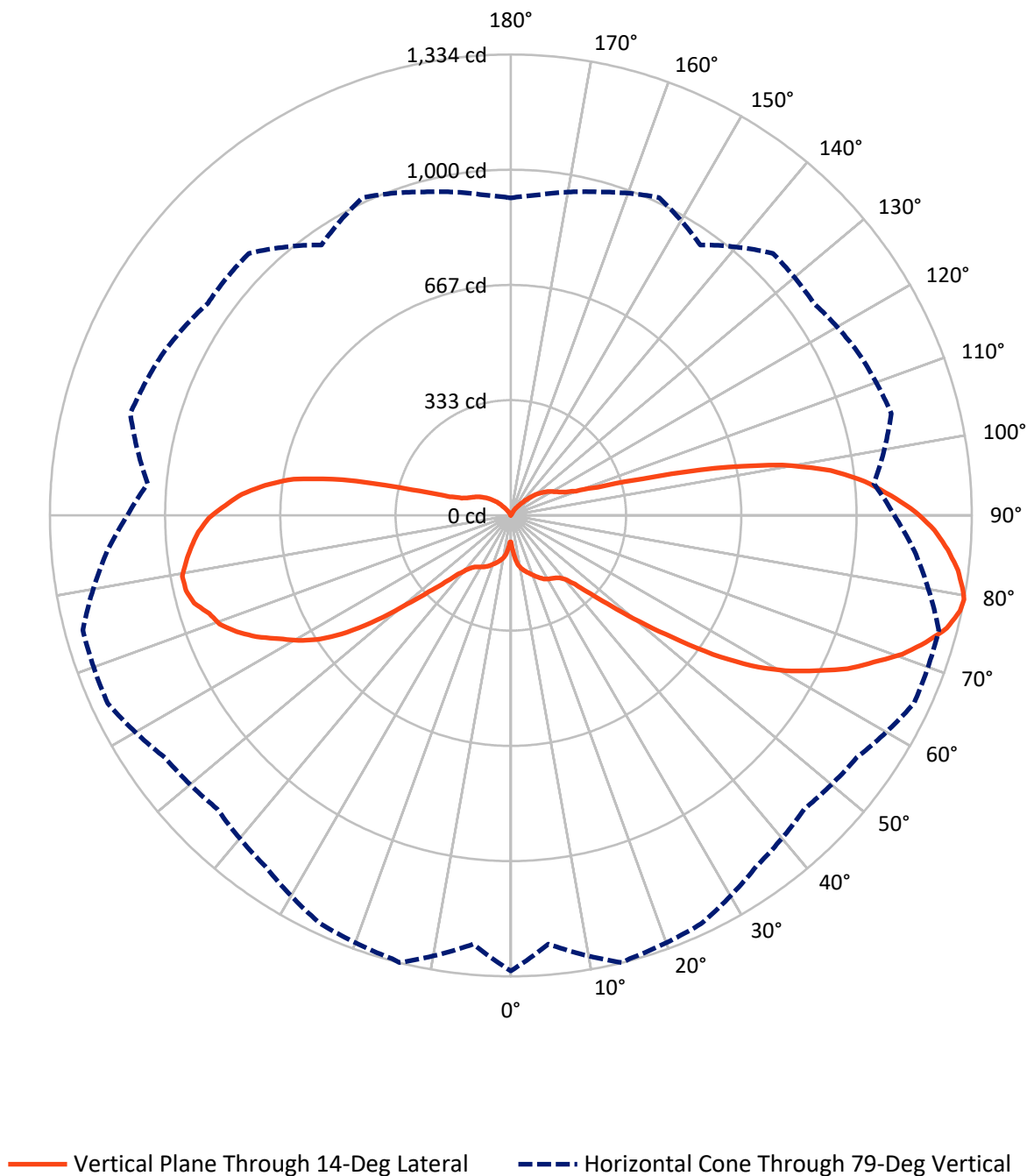


Based on 10 foot mounting height. Maximum calculated value = 1.5 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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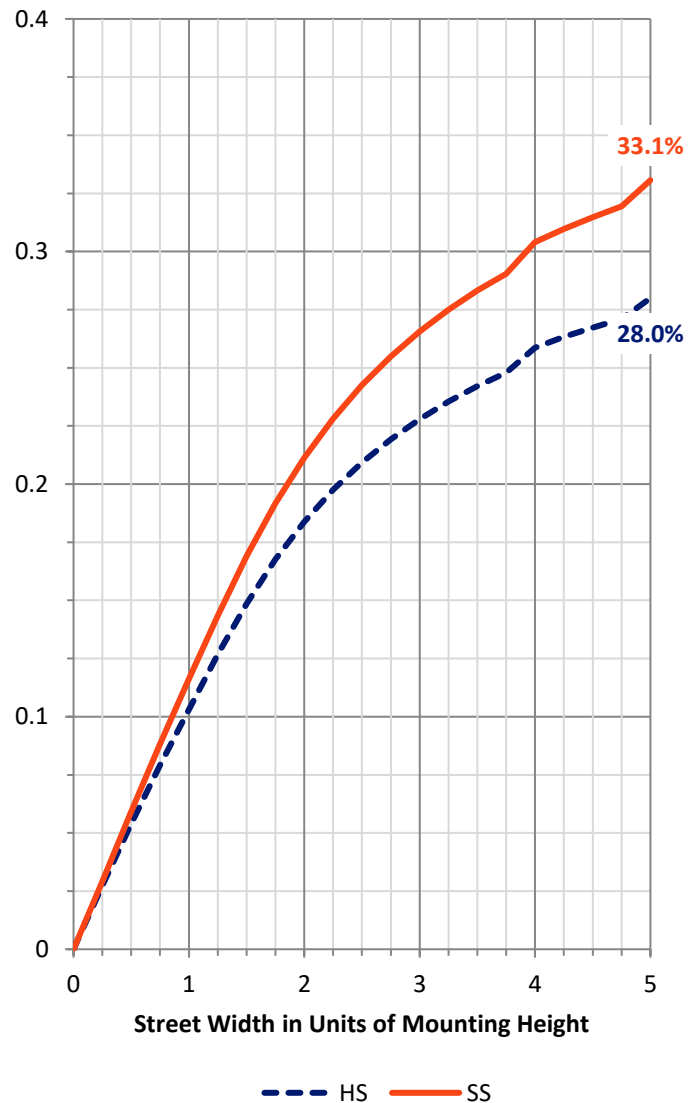
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2005.4	764.3	2769.8
	% Fixture	33.0	12.6	45.5
Street Side	Lumens	2399.0	916.3	3315.3
	% Fixture	39.4	15.1	54.5
Total	Lumens	4404.4	1680.6	6085.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.3	0.2
10°-20°	43.6	0.7
20°-30°	85.0	1.4
30°-40°	129.5	2.1
40°-50°	244.3	4.0
50°-60°	589.7	9.7
60°-70°	938.7	15.4
70°-80°	1177.3	19.3
80°-90°	1185.1	19.5
90°-100°	971.6	16.0
100°-110°	410.4	6.7
110°-120°	142.1	2.3
120°-130°	94.7	1.6
130°-140°	47.2	0.8
140°-150°	13.9	0.2
150°-160°	0.7	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	4404.4	72.4
0°-180°	6085.0	100.0

Coefficient of Utilization



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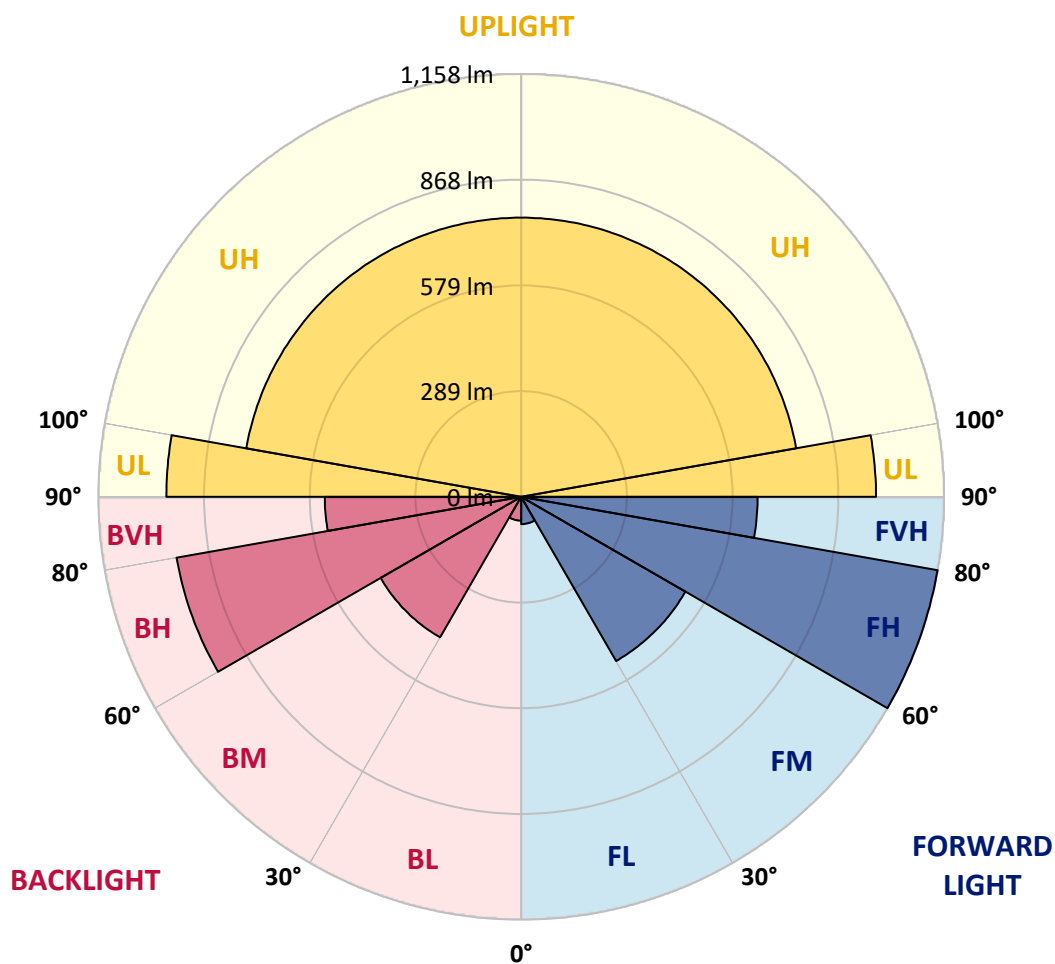
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	74.7	1.2			
FM	(30°-60°)	519.2	8.5			
FH	(60°-80°)	1157.7	19.0			G1/1800
FVH	(80°-90°)	647.3	10.6			G4/750
BL	(0°-30°)	65.2	1.1	B0/110		
BM	(30°-60°)	444.3	7.3	B1/1000		
BH	(60°-80°)	958.2	15.7	B2/1000		G1/1800
BVH	(80°-90°)	537.7	8.8			G4/750
UL	(90°-100°)	971.6	16.0		U4/1000	
UH	(100°-180°)	764.3	12.6		U4/1000	

BUG Rating: B2-U4-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
2.5°	102.4	99.5	99.5	100.4	100.4	96.5	93.6	93.6	91.7	89.7	85.8
5°	124.8	122.9	122.9	122.9	122.9	123.8	120.9	119.0	115.1	113.1	110.2
7.5°	142.4	141.4	141.4	142.4	141.4	140.4	137.5	137.5	133.6	131.6	128.7
10°	155.0	154.1	154.1	154.1	152.1	150.2	148.2	147.2	144.3	141.4	138.5
12.5°	161.9	160.9	161.9	161.9	159.9	156.0	155.0	154.1	152.1	149.2	145.3
15°	169.7	168.7	169.7	169.7	166.7	164.8	162.8	161.9	159.9	158.0	154.1
17.5°	177.5	176.5	176.5	176.5	175.5	171.6	169.7	170.6	167.7	164.8	161.9
20°	186.2	185.3	184.3	184.3	183.3	179.4	178.4	177.5	175.5	172.6	169.7
22.5°	196.0	194.0	193.1	193.1	192.1	188.2	188.2	187.2	184.3	181.4	179.4
25°	205.7	204.8	200.9	200.9	199.9	197.0	197.9	196.0	193.1	189.2	188.2
27.5°	213.5	211.6	208.7	207.7	206.7	203.8	204.8	202.8	198.9	196.0	195.0
30°	218.4	217.4	213.5	213.5	210.6	209.6	209.6	206.7	202.8	199.9	200.9
32.5°	221.3	221.3	217.4	216.5	214.5	213.5	212.6	210.6	205.7	202.8	203.8
35°	226.2	225.2	222.3	221.3	218.4	218.4	216.5	213.5	207.7	206.7	207.7
37.5°	232.1	231.1	229.1	228.2	223.3	225.2	222.3	220.4	214.5	213.5	212.6
40°	245.7	245.7	242.8	242.8	236.9	241.8	238.9	239.9	234.0	233.0	229.1
42.5°	271.1	271.1	272.1	273.0	268.1	273.0	272.1	276.9	272.1	268.1	262.3
45°	320.8	316.9	322.8	320.8	317.9	322.8	320.8	327.6	325.7	320.8	315.0
47.5°	382.2	390.0	391.0	393.0	387.1	393.0	391.0	398.8	402.7	396.9	381.3
50°	467.1	474.9	483.6	483.6	478.8	480.7	479.7	491.4	496.3	497.3	475.8
52.5°	566.5	574.3	586.0	592.9	585.1	590.9	592.9	615.3	630.9	628.9	591.9
55°	683.5	695.2	709.9	713.8	700.1	704.0	706.0	734.2	765.4	761.5	713.8
57.5°	797.6	808.3	821.0	827.9	811.3	806.4	790.8	824.0	863.9	862.0	791.8
60°	891.2	899.0	912.7	919.5	902.9	893.2	860.0	895.1	941.0	943.9	862.0
62.5°	974.1	978.0	989.7	996.5	978.0	967.3	926.3	963.4	1008.2	1012.1	923.4
65°	1047.2	1041.4	1070.6	1072.6	1046.3	1029.7	990.7	1030.7	1073.6	1076.5	976.1
67.5°	1112.6	1100.9	1133.1	1139.9	1110.6	1085.3	1048.2	1078.4	1125.3	1123.3	1034.6
70°	1171.1	1155.5	1202.3	1206.2	1167.2	1133.1	1111.6	1129.2	1181.8	1182.8	1085.3
72.5°	1230.6	1201.3	1255.9	1256.9	1223.7	1174.0	1147.7	1170.1	1221.8	1216.9	1125.3
75°	1277.4	1225.7	1303.7	1299.8	1269.6	1209.1	1183.8	1201.3	1262.7	1260.8	1152.6
77.5°	1322.2	1248.1	1329.0	1326.1	1298.8	1233.5	1202.3	1226.7	1285.2	1284.2	1176.9
79°	1318.3	1245.2	1333.9	1328.1	1303.7	1239.3	1201.3	1221.8	1287.1	1282.2	1172.1
80°	1314.4	1236.4	1327.1	1322.2	1295.9	1232.5	1187.7	1204.2	1269.6	1266.6	1156.5
82.5°	1287.1	1215.0	1303.7	1296.9	1274.4	1216.9	1174.0	1189.6	1266.6	1256.9	1141.8
85°	1250.1	1181.8	1268.6	1262.7	1241.3	1185.7	1136.0	1148.7	1216.9	1215.0	1107.7
87.5°	1202.3	1139.9	1226.7	1220.8	1201.3	1150.6	1100.9	1115.5	1184.7	1183.8	1070.6
90°	1156.5	1096.0	1171.1	1169.1	1149.6	1102.8	1059.9	1082.3	1153.5	1149.6	1037.5
92.5°	1087.2	1032.6	1100.9	1101.9	1083.3	1044.3	1004.3	1022.9	1078.4	1077.5	974.1
95°	1017.0	966.3	1028.7	1028.7	1011.2	977.0	936.1	949.7	1004.3	1013.1	913.7
97.5°	924.4	879.5	935.1	937.1	923.4	894.2	859.1	876.6	929.3	938.0	847.4
100°	781.0	750.8	799.6	804.4	793.7	776.2	751.8	777.1	823.0	832.7	753.7
102.5°	571.4	562.6	605.5	603.6	599.7	594.8	589.0	602.6	632.8	647.5	566.5
105°	388.1	373.5	395.9	394.9	387.1	374.4	359.8	358.8	366.6	360.8	320.8
107.5°	261.3	255.5	264.2	265.2	259.4	248.6	235.0	234.0	240.8	236.9	215.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	198.9	196.0	200.9	201.8	198.9	190.1	183.3	183.3	190.1	187.2	173.6
112.5°	172.6	170.6	173.6	173.6	171.6	162.8	158.9	161.9	167.7	166.7	155.0
115°	157.0	156.0	157.0	158.0	155.0	147.2	145.3	148.2	154.1	153.1	143.3
117.5°	146.3	145.3	145.3	146.3	143.3	136.5	135.5	138.5	144.3	143.3	134.6
120°	136.5	136.5	136.5	136.5	134.6	128.7	127.7	131.6	136.5	135.5	127.7
122.5°	126.8	126.8	126.8	126.8	124.8	120.9	120.9	124.8	128.7	127.7	120.9
125°	116.0	116.0	115.1	116.0	114.1	112.1	112.1	116.0	119.0	119.0	113.1
127.5°	105.3	105.3	103.4	104.3	102.4	101.4	102.4	106.3	109.2	109.2	105.3
130°	93.6	92.6	90.7	91.7	89.7	89.7	91.7	95.6	97.5	98.5	94.6
132.5°	80.0	79.0	77.0	77.0	77.0	77.0	79.0	81.9	84.8	84.8	82.9
135°	66.3	65.3	63.4	63.4	63.4	62.4	65.3	68.3	70.2	70.2	68.3
137.5°	51.7	51.7	49.7	50.7	49.7	48.8	50.7	52.7	53.6	54.6	52.7
140°	41.0	41.0	40.0	39.0	38.0	37.1	38.0	39.0	40.0	41.0	40.0
142.5°	32.2	32.2	31.2	31.2	30.2	29.3	29.3	30.2	32.2	32.2	31.2
145°	24.4	24.4	24.4	23.4	22.4	22.4	22.4	23.4	24.4	24.4	24.4
147.5°	17.6	16.6	16.6	16.6	15.6	15.6	16.6	16.6	17.6	17.6	17.6
150°	8.8	8.8	8.8	8.8	8.8	8.8	9.8	9.8	10.7	10.7	9.8
152.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
155°	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
165°	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0
167.5°	1.0	0.0	1.0	1.0	1.0	0.0	1.0	0.0	1.0	1.0	0.0
170°	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0
172.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.0
175°	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0
177.5°	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.0
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
2.5°	84.8	83.9	81.9	82.9	80.0	79.0	78.0	77.0	77.0	77.0	76.1
5°	108.2	106.3	101.4	99.5	99.5	97.5	97.5	96.5	96.5	96.5	96.5
7.5°	126.8	125.8	120.9	117.0	115.1	114.1	114.1	113.1	113.1	112.1	111.2
10°	136.5	134.6	131.6	129.7	127.7	125.8	123.8	124.8	123.8	121.9	121.9
12.5°	144.3	142.4	139.4	137.5	135.5	132.6	131.6	131.6	130.7	127.7	127.7
15°	152.1	150.2	148.2	145.3	143.3	140.4	138.5	138.5	137.5	134.6	133.6
17.5°	159.9	158.9	156.0	153.1	151.1	148.2	145.3	144.3	143.3	141.4	140.4
20°	168.7	166.7	163.8	160.9	158.0	156.0	153.1	150.2	149.2	148.2	147.2
22.5°	178.4	175.5	172.6	168.7	165.8	164.8	159.9	157.0	156.0	154.1	154.1
25°	187.2	183.3	180.4	177.5	173.6	172.6	167.7	163.8	161.9	160.9	160.9
27.5°	194.0	190.1	187.2	184.3	180.4	179.4	173.6	169.7	166.7	166.7	167.7
30°	198.9	196.0	193.1	189.2	187.2	186.2	179.4	174.5	171.6	172.6	172.6
32.5°	202.8	199.9	197.0	193.1	191.1	190.1	184.3	178.4	175.5	176.5	176.5
35°	205.7	203.8	200.9	197.0	196.0	194.0	188.2	182.3	180.4	182.3	181.4
37.5°	211.6	208.7	205.7	200.9	202.8	199.9	195.0	189.2	189.2	192.1	191.1
40°	226.2	222.3	218.4	212.6	213.5	212.6	209.6	204.8	204.8	208.7	207.7
42.5°	256.4	250.6	243.8	236.0	236.0	234.0	230.1	228.2	229.1	232.1	232.1
45°	302.3	291.6	286.7	276.9	275.0	273.0	269.1	265.2	271.1	270.1	272.1
47.5°	367.6	353.0	347.1	334.5	332.5	331.5	325.7	321.8	323.7	325.7	330.6
50°	456.3	434.9	428.1	415.4	412.5	408.6	396.9	392.0	395.9	398.8	402.7
52.5°	572.4	535.3	533.4	521.7	505.1	511.9	496.3	488.5	491.4	490.5	495.3
55°	687.4	644.5	649.4	633.8	611.4	619.2	589.0	588.0	583.1	579.2	581.2
57.5°	767.4	725.5	745.0	725.5	697.2	705.0	665.0	660.1	658.2	646.5	642.6
60°	828.8	785.9	815.2	787.9	756.7	777.1	720.6	724.5	714.7	702.1	693.3
62.5°	883.4	839.6	874.7	843.5	809.3	830.8	767.4	780.1	760.6	749.8	734.2
65°	935.1	894.2	930.2	902.0	856.1	886.4	814.2	837.6	817.1	797.6	783.0
67.5°	984.8	944.9	986.8	958.5	908.8	938.0	850.3	885.4	863.9	842.5	824.9
70°	1026.8	984.8	1033.6	1007.3	953.6	973.1	868.8	931.2	901.0	881.5	857.1
72.5°	1065.8	1017.0	1077.5	1053.1	996.5	1013.1	896.1	967.3	919.5	901.0	883.4
75°	1091.1	1037.5	1113.6	1085.3	1039.4	1048.2	929.3	995.6	953.6	923.4	909.8
77.5°	1114.5	1056.0	1136.0	1102.8	1060.9	1065.8	950.7	1015.1	968.3	934.1	916.6
79°	1109.7	1055.0	1139.9	1110.6	1070.6	1072.6	955.6	1015.1	969.2	931.2	918.5
80°	1098.0	1046.3	1130.1	1097.0	1057.0	1059.9	950.7	1007.3	972.2	920.5	908.8
82.5°	1085.3	1031.6	1115.5	1085.3	1045.3	1042.4	943.9	995.6	952.7	910.7	898.1
85°	1052.1	1005.3	1084.3	1054.1	1020.9	1016.0	922.4	970.2	933.2	880.5	869.8
87.5°	1020.9	975.1	1055.0	1025.8	993.6	989.7	904.9	952.7	910.7	854.2	848.3
90°	986.8	940.0	1015.1	985.8	949.7	942.9	865.9	913.7	879.5	824.9	819.1
92.5°	925.4	883.4	954.6	929.3	899.0	894.2	820.1	863.9	831.8	783.0	777.1
95°	869.8	829.8	893.2	871.7	843.5	842.5	769.3	816.2	784.9	741.1	738.1
97.5°	809.3	770.3	824.9	805.4	777.1	774.2	706.0	747.9	720.6	680.6	677.7
100°	713.8	680.6	716.7	702.1	668.9	677.7	617.2	662.1	640.6	605.5	598.7
102.5°	535.3	509.0	520.7	509.0	479.7	492.4	461.2	509.0	500.2	480.7	474.9
105°	303.3	295.5	303.3	299.4	288.6	285.7	270.1	302.3	295.5	288.6	284.7
107.5°	204.8	198.9	205.7	202.8	190.1	189.2	177.5	192.1	185.3	179.4	176.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	166.7	161.9	166.7	165.8	157.0	154.1	145.3	155.0	150.2	145.3	143.3
112.5°	149.2	145.3	149.2	148.2	139.4	138.5	131.6	139.4	135.5	131.6	130.7
115°	138.5	134.6	137.5	136.5	128.7	127.7	121.9	128.7	125.8	121.9	120.9
117.5°	130.7	126.8	128.7	126.8	120.9	119.0	114.1	119.9	118.0	113.1	112.1
120°	123.8	119.9	121.9	119.0	113.1	111.2	107.3	111.2	109.2	106.3	105.3
122.5°	118.0	114.1	115.1	111.2	105.3	102.4	99.5	101.4	100.4	97.5	96.5
125°	110.2	106.3	106.3	102.4	95.6	93.6	90.7	91.7	90.7	89.7	88.7
127.5°	101.4	98.5	96.5	92.6	86.8	82.9	80.9	81.9	81.9	80.9	80.0
130°	91.7	88.7	84.8	80.9	76.1	73.1	70.2	72.2	72.2	72.2	72.2
132.5°	80.0	77.0	73.1	69.2	64.4	62.4	59.5	61.4	62.4	63.4	62.4
135°	66.3	64.4	60.5	56.6	52.7	49.7	48.8	50.7	52.7	52.7	51.7
137.5°	51.7	49.7	47.8	44.9	41.0	39.0	38.0	40.0	41.9	41.9	41.0
140°	39.0	39.0	37.1	34.1	30.2	29.3	29.3	30.2	31.2	31.2	30.2
142.5°	30.2	30.2	28.3	26.3	23.4	22.4	22.4	23.4	24.4	24.4	23.4
145°	23.4	23.4	21.5	19.5	17.6	16.6	16.6	17.6	18.5	18.5	17.6
147.5°	17.6	16.6	14.6	13.7	11.7	11.7	11.7	11.7	12.7	12.7	12.7
150°	9.8	9.8	8.8	6.8	5.9	5.9	5.9	6.8	7.8	7.8	6.8
152.5°	2.0	2.0	2.0	2.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0
167.5°	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0
172.5°	0.0	0.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0
177.5°	0.0	0.0	1.0	1.0	0.0	1.0	0.0	1.0	1.0	0.0	0.0
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

(END OF REPORT)