

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: P314581

Luminaire Tested: **MPW-A7-D-U-SYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPW-A7-D-U-SYM-7027
Description: WOODBRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 2700K LIGHT ENGINE. SYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6403 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type I - Short - Non-Cutoff
BUG Rating: B3 - U5 - G4

Input Watts (W): 68.7
Input Voltage (V): NR
Input Current (A_{in}): 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

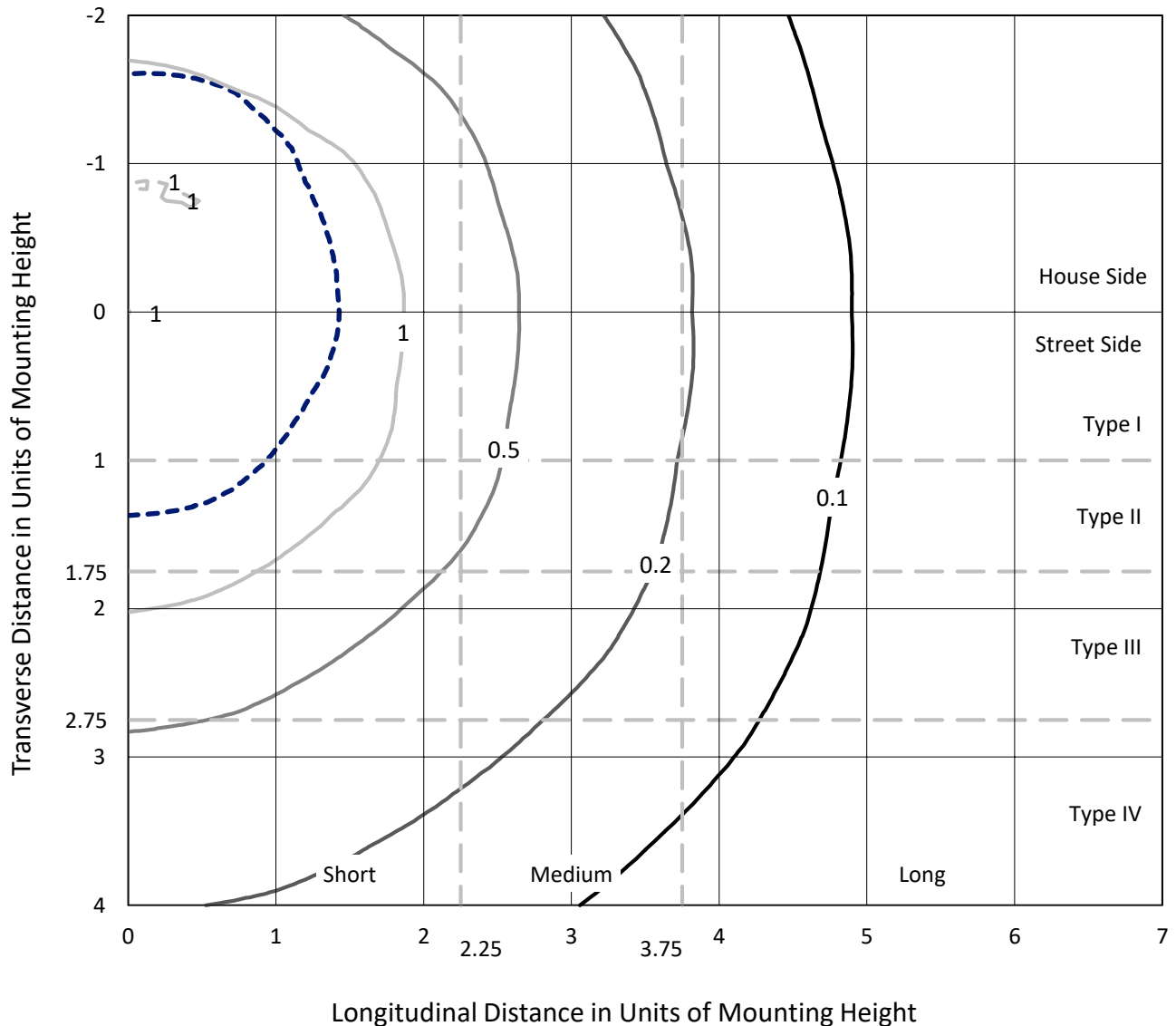


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

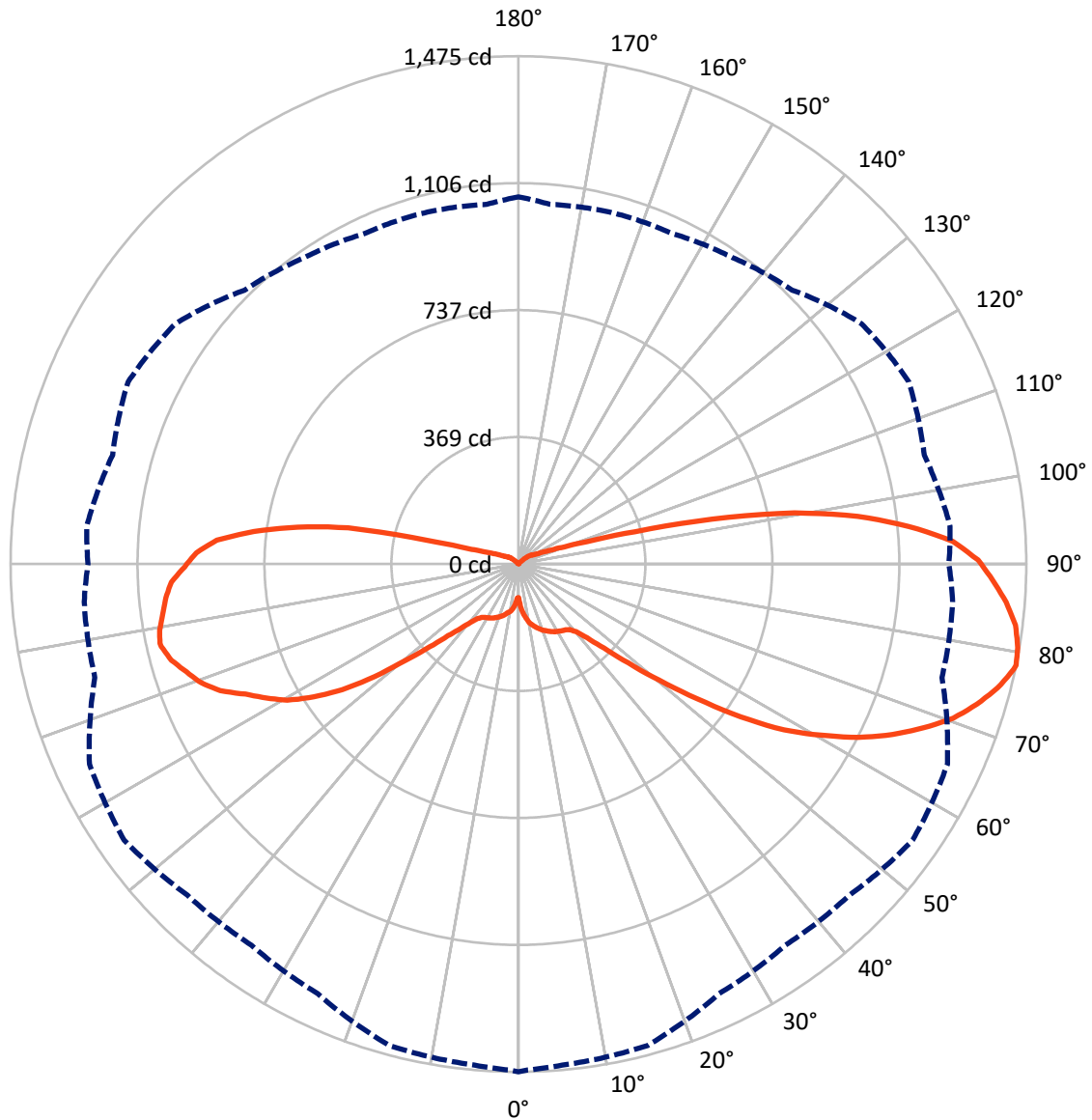


Based on 10 foot mounting height. Maximum calculated value = 1.7 fc
 Type I - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral

- - - Horizontal Cone Through 78-Deg Vertical



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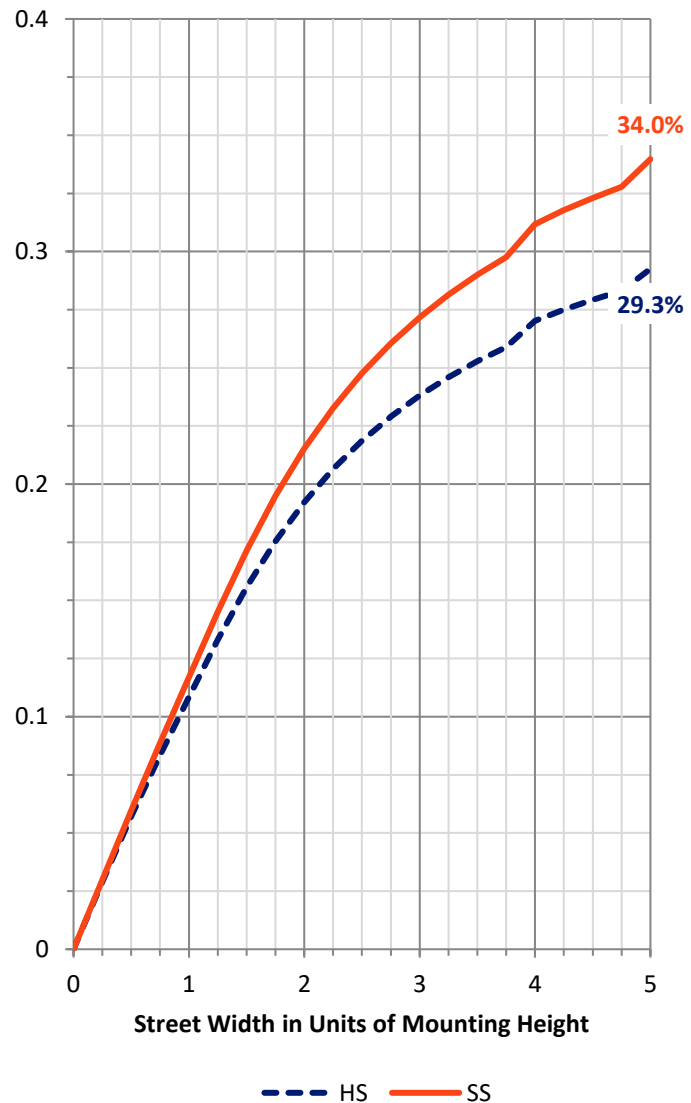
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2210.1	736.1	2946.2
	% Fixture	34.5	11.5	46.0
Street Side	Lumens	2608.5	848.3	3456.9
	% Fixture	40.7	13.2	54.0
Total	Lumens	4818.6	1584.4	6403.0
	% Fixture	75.3	24.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.1	0.2
10°-20°	48.5	0.8
20°-30°	90.9	1.4
30°-40°	136.1	2.1
40°-50°	266.9	4.2
50°-60°	638.6	10.0
60°-70°	1016.6	15.9
70°-80°	1288.7	20.1
80°-90°	1319.2	20.6
90°-100°	1074.4	16.8
100°-110°	388.0	6.1
110°-120°	79.2	1.2
120°-130°	35.6	0.6
130°-140°	7.1	0.1
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4818.6	75.3
0°-180°	6403.0	100.0



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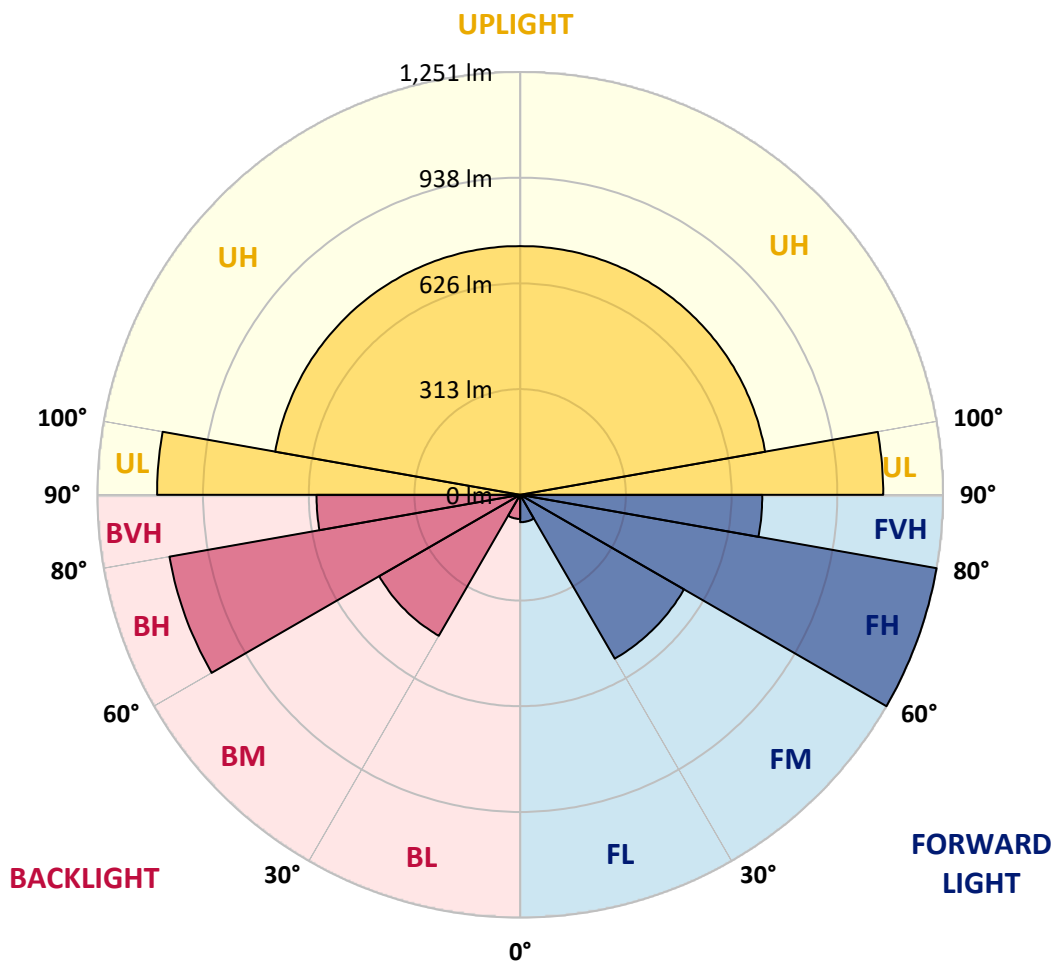
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	81.1	1.3			
FM (30°-60°)	559.8	8.7			
FH (60°-80°)	1251.3	19.5			G1/1800
FVH (80°-90°)	716.3	11.2			G4/750
BL (0°-30°)	71.4	1.1	B0/110		
BM (30°-60°)	481.7	7.5	B1/1000		
BH (60°-80°)	1054.0	16.5	B3/2500		G3/2500
BVH (80°-90°)	602.9	9.4			G4/750
UL (90°-100°)	1074.4	16.8		U5	
UH (100°-180°)	736.1	11.5		U4/1000	

BUG Rating: B3-U5-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
2.5°	124.4	123.5	122.6	120.7	121.6	120.7	118.8	116.1	113.3	110.5	108.6
5°	143.9	143.0	143.0	143.0	143.0	143.0	142.1	139.3	135.6	131.8	127.2
7.5°	158.8	157.8	157.8	158.8	158.8	157.8	156.0	154.1	151.3	149.5	145.8
10°	172.7	171.8	171.8	171.8	170.8	169.0	167.1	164.3	160.6	158.8	156.0
12.5°	182.0	181.1	181.1	180.1	179.2	177.3	173.6	169.9	168.1	165.3	162.5
15°	190.3	189.4	189.4	187.6	186.6	184.8	181.1	178.3	175.5	173.6	171.8
17.5°	197.8	197.8	196.8	195.0	194.1	192.2	189.4	185.7	182.9	181.1	178.3
20°	205.2	204.3	204.3	202.4	200.6	198.7	195.9	193.1	191.3	188.5	185.7
22.5°	210.8	210.8	209.8	208.9	207.1	206.1	202.4	200.6	197.8	195.9	193.1
25°	217.3	217.3	217.3	215.4	213.6	212.6	208.9	207.1	205.2	202.4	198.7
27.5°	222.8	221.9	222.8	221.0	218.2	217.3	213.6	210.8	208.9	207.1	203.3
30°	226.6	226.6	225.6	224.7	221.9	220.1	217.3	214.5	212.6	209.8	207.1
32.5°	231.2	229.3	231.2	227.5	225.6	222.8	220.1	216.3	214.5	211.7	208.9
35°	234.9	234.0	234.0	233.1	229.3	227.5	223.8	221.0	218.2	215.4	212.6
37.5°	241.4	241.4	241.4	239.6	237.7	238.6	235.8	232.1	229.3	225.6	221.0
40°	258.1	258.1	258.1	258.1	257.2	260.0	259.1	258.1	257.2	251.6	244.2
42.5°	292.5	293.4	292.5	292.5	293.4	299.0	299.9	301.8	299.0	290.6	280.4
45°	348.2	350.0	348.2	351.0	352.8	360.3	359.3	361.2	357.5	350.0	333.3
47.5°	429.0	431.8	432.7	427.1	428.0	435.5	440.1	442.0	438.3	421.5	406.7
50°	530.2	533.0	533.0	528.3	523.7	533.0	539.5	543.2	545.0	517.2	500.5
52.5°	649.0	652.7	651.8	646.2	637.0	656.4	662.0	679.7	675.0	633.2	614.7
55°	783.7	787.4	786.4	775.3	760.4	768.8	785.5	805.9	800.4	749.3	736.3
57.5°	909.0	910.9	910.9	896.9	879.3	873.7	884.9	909.0	899.7	840.3	829.2
60°	1009.3	1011.1	1012.1	990.7	969.4	957.3	966.6	993.5	984.2	915.5	904.4
62.5°	1108.6	1101.2	1093.8	1076.1	1046.4	1032.5	1034.3	1069.6	1051.1	975.9	967.5
65°	1194.1	1191.3	1173.6	1155.1	1122.6	1106.8	1106.8	1143.9	1125.3	1045.5	1034.3
67.5°	1269.3	1269.3	1248.8	1231.2	1187.6	1169.0	1165.3	1209.8	1186.6	1104.9	1091.0
70°	1339.8	1338.0	1314.8	1302.7	1248.8	1221.9	1226.5	1272.0	1251.6	1165.3	1155.1
72.5°	1391.8	1391.8	1375.1	1364.0	1298.0	1273.0	1274.8	1323.1	1299.9	1208.9	1195.0
75°	1437.3	1433.6	1424.3	1414.1	1345.4	1316.6	1321.3	1368.6	1344.5	1252.5	1247.0
77.5°	1469.8	1467.0	1458.7	1447.5	1372.3	1346.3	1353.8	1396.5	1375.1	1270.2	1262.8
78°	1474.5	1469.8	1460.5	1447.5	1377.0	1351.0	1359.3	1397.4	1374.2	1273.0	1265.5
80°	1469.8	1466.1	1455.9	1442.0	1379.8	1349.1	1353.8	1387.2	1363.0	1268.3	1258.1
82.5°	1454.0	1451.2	1442.0	1425.2	1363.0	1337.0	1341.7	1373.3	1351.9	1253.5	1258.1
85°	1420.6	1414.1	1406.7	1390.0	1336.1	1306.4	1310.1	1340.8	1316.6	1220.0	1217.3
87.5°	1378.8	1374.2	1368.6	1351.9	1301.8	1275.8	1276.7	1307.3	1284.1	1194.1	1194.1
90°	1334.3	1328.7	1324.0	1308.3	1259.0	1234.0	1234.9	1269.3	1250.7	1168.1	1172.7
92.5°	1262.8	1258.1	1253.5	1235.8	1191.3	1167.1	1170.8	1204.3	1185.7	1104.9	1110.5
95°	1139.3	1135.6	1136.5	1123.5	1083.6	1061.3	1062.2	1095.6	1078.0	1007.4	1022.3
97.5°	994.4	992.6	987.0	982.4	947.1	933.1	929.4	965.6	957.3	896.0	911.8
100°	815.2	811.5	805.0	803.2	780.9	775.3	778.1	812.4	807.8	754.9	770.7
102.5°	577.5	576.6	582.2	572.0	562.7	564.5	575.7	604.5	599.8	554.3	564.5
105°	351.0	351.9	347.3	344.5	337.0	336.1	338.0	346.3	336.1	305.5	307.3
107.5°	208.9	209.8	210.8	204.3	198.7	196.8	195.9	198.7	193.1	181.1	181.1



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	142.1	142.1	143.0	139.3	134.6	134.6	133.7	136.5	134.6	128.1	128.1
112.5°	104.0	104.9	104.0	102.1	99.3	100.3	100.3	102.1	102.1	98.4	98.4
115°	80.8	80.8	80.8	78.9	77.1	77.1	78.0	79.9	80.8	78.9	78.9
117.5°	64.1	64.1	64.1	63.1	61.3	61.3	62.2	63.1	65.0	64.1	64.1
120°	53.9	53.9	53.9	52.9	52.0	52.0	52.9	53.9	54.8	53.9	53.9
122.5°	48.3	48.3	48.3	47.4	46.4	46.4	46.4	47.4	48.3	48.3	48.3
125°	43.6	43.6	43.6	43.6	41.8	40.9	41.8	42.7	43.6	44.6	44.6
127.5°	36.2	36.2	37.1	36.2	35.3	35.3	36.2	36.2	38.1	39.0	39.0
130°	26.9	26.9	27.9	27.9	26.9	26.0	26.9	27.9	29.7	30.6	29.7
132.5°	16.7	17.6	17.6	17.6	16.7	16.7	17.6	18.6	20.4	21.4	20.4
135°	1.9	1.9	2.8	1.9	2.8	2.8	2.8	3.7	5.6	6.5	6.5
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.9	0.9	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
2.5°	107.7	108.6	106.8	105.8	104.9	104.0	103.1	101.2	100.3	100.3	99.3
5°	126.3	125.3	123.5	120.7	119.8	118.8	117.9	117.0	117.0	117.0	117.0
7.5°	143.9	142.1	137.4	134.6	133.7	134.6	132.8	131.8	130.9	130.0	130.0
10°	154.1	152.3	149.5	146.7	144.8	144.8	143.9	142.1	140.2	139.3	139.3
12.5°	160.6	158.8	156.9	154.1	152.3	151.3	150.4	147.6	144.8	144.8	143.9
15°	169.9	168.1	165.3	162.5	160.6	158.8	157.8	154.1	151.3	150.4	150.4
17.5°	177.3	175.5	173.6	170.8	168.1	165.3	163.4	160.6	157.8	156.9	156.9
20°	184.8	182.9	180.1	178.3	174.6	171.8	169.9	167.1	164.3	163.4	162.5
22.5°	192.2	190.3	187.6	185.7	182.0	178.3	175.5	172.7	169.0	168.1	167.1
25°	197.8	195.9	194.1	191.3	187.6	183.8	180.1	176.4	174.6	172.7	171.8
27.5°	202.4	201.5	199.6	196.8	192.2	188.5	184.8	181.1	178.3	176.4	176.4
30°	206.1	205.2	203.3	200.6	196.8	193.1	189.4	185.7	182.0	180.1	179.2
32.5°	208.9	207.1	206.1	203.3	200.6	196.8	193.1	189.4	185.7	183.8	182.9
35°	211.7	210.8	208.9	207.1	203.3	200.6	196.8	194.1	190.3	189.4	188.5
37.5°	220.1	219.1	217.3	213.6	210.8	208.0	205.2	202.4	200.6	199.6	198.7
40°	244.2	240.5	236.8	233.1	227.5	223.8	221.0	220.1	219.1	219.1	220.1
42.5°	276.7	274.8	272.1	265.6	258.1	252.6	249.8	250.7	249.8	249.8	251.6
45°	328.7	325.0	321.3	315.7	302.7	293.4	290.6	288.8	290.6	289.7	291.5
47.5°	396.5	399.3	386.3	379.8	365.8	351.9	350.0	344.5	348.2	350.0	352.8
50°	490.2	493.0	481.0	468.0	452.2	429.0	425.3	418.8	421.5	429.9	429.0
52.5°	609.1	610.0	598.0	585.0	565.5	533.0	528.3	520.9	518.1	530.2	531.1
55°	732.6	737.2	718.7	709.4	689.9	644.4	629.5	617.5	618.4	631.4	628.6
57.5°	829.2	831.0	814.3	809.7	788.3	732.6	715.9	690.8	699.2	708.4	708.4
60°	902.5	904.4	883.9	886.7	870.0	798.5	783.7	755.8	762.3	768.8	779.0
62.5°	965.6	972.1	944.3	949.9	935.0	856.1	834.7	813.4	820.8	821.7	828.2
65°	1031.6	1032.5	1003.7	1011.1	991.6	914.6	881.1	860.7	870.9	869.1	877.4
67.5°	1088.2	1090.1	1059.4	1076.1	1052.9	971.2	938.7	915.5	923.9	917.4	940.6
70°	1146.7	1152.3	1108.6	1124.4	1104.9	1017.6	981.4	959.1	961.9	954.5	984.2
72.5°	1182.9	1195.0	1159.7	1179.2	1151.3	1060.3	1026.9	1007.4	1000.9	992.6	1013.0
75°	1224.7	1236.8	1189.4	1217.3	1193.1	1101.2	1065.9	1048.3	1034.3	1029.7	1045.5
77.5°	1247.9	1260.9	1226.5	1247.0	1215.4	1121.6	1081.7	1054.8	1051.1	1046.4	1064.1
78°	1249.8	1258.1	1220.0	1250.7	1216.3	1124.4	1085.4	1058.5	1055.7	1048.3	1065.9
80°	1243.3	1250.7	1215.4	1243.3	1210.8	1118.8	1081.7	1046.4	1048.3	1038.1	1059.4
82.5°	1239.5	1247.9	1212.6	1231.2	1208.0	1111.4	1080.8	1039.0	1039.0	1022.3	1042.7
85°	1199.6	1209.8	1181.1	1203.3	1179.2	1087.3	1061.3	1016.7	1016.7	1003.7	1028.8
87.5°	1178.3	1188.5	1153.2	1183.8	1154.1	1059.4	1039.0	1001.9	999.1	985.1	1009.3
90°	1152.3	1164.3	1128.1	1143.0	1119.8	1029.7	1007.4	965.6	961.9	947.1	969.4
92.5°	1090.1	1101.2	1066.8	1089.1	1067.8	987.0	964.7	931.3	924.8	914.6	935.9
95°	1005.6	1018.6	991.6	1014.9	992.6	920.1	903.4	878.4	871.9	865.4	878.4
97.5°	896.0	901.6	882.1	903.4	883.9	820.8	806.9	781.8	770.7	768.8	773.4
100°	756.7	760.4	738.2	754.9	740.9	684.3	676.9	664.8	649.9	648.1	649.9
102.5°	561.7	546.0	528.3	521.8	520.0	477.2	481.9	488.4	481.9	489.3	505.1
105°	304.5	295.3	288.8	283.2	286.9	262.8	267.4	268.3	262.8	266.5	272.1
107.5°	179.2	176.4	173.6	170.8	165.3	156.9	155.1	148.6	148.6	148.6	150.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	127.2	126.3	123.5	122.6	117.9	112.3	111.4	108.6	106.8	106.8	108.6
112.5°	97.5	96.6	94.7	93.8	91.9	85.4	84.5	83.6	83.6	83.6	84.5
115°	78.0	77.1	76.1	74.3	71.5	66.9	67.8	65.9	65.9	66.9	66.9
117.5°	63.1	62.2	62.2	60.4	57.6	54.8	54.8	53.9	53.9	53.9	54.8
120°	53.9	52.9	52.0	51.1	48.3	45.5	45.5	44.6	45.5	45.5	45.5
122.5°	48.3	47.4	46.4	45.5	42.7	39.9	39.9	39.0	39.9	39.9	39.9
125°	43.6	42.7	41.8	39.9	37.1	35.3	35.3	35.3	35.3	35.3	35.3
127.5°	38.1	37.1	35.3	33.4	31.6	29.7	29.7	29.7	30.6	30.6	30.6
130°	29.7	27.9	26.9	25.1	23.2	21.4	22.3	23.2	24.1	24.1	24.1
132.5°	20.4	19.5	17.6	15.8	13.9	13.9	13.9	15.8	16.7	16.7	16.7
135°	5.6	5.6	5.6	4.6	4.6	4.6	5.6	7.4	7.4	8.4	8.4
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)