

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: P314622

Luminaire Tested: **MPB-A6-D-U-SYM-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPB-A6-D-U-SYM-7030
Description: BRECKENRIDGE 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: 6014 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U4 - G4

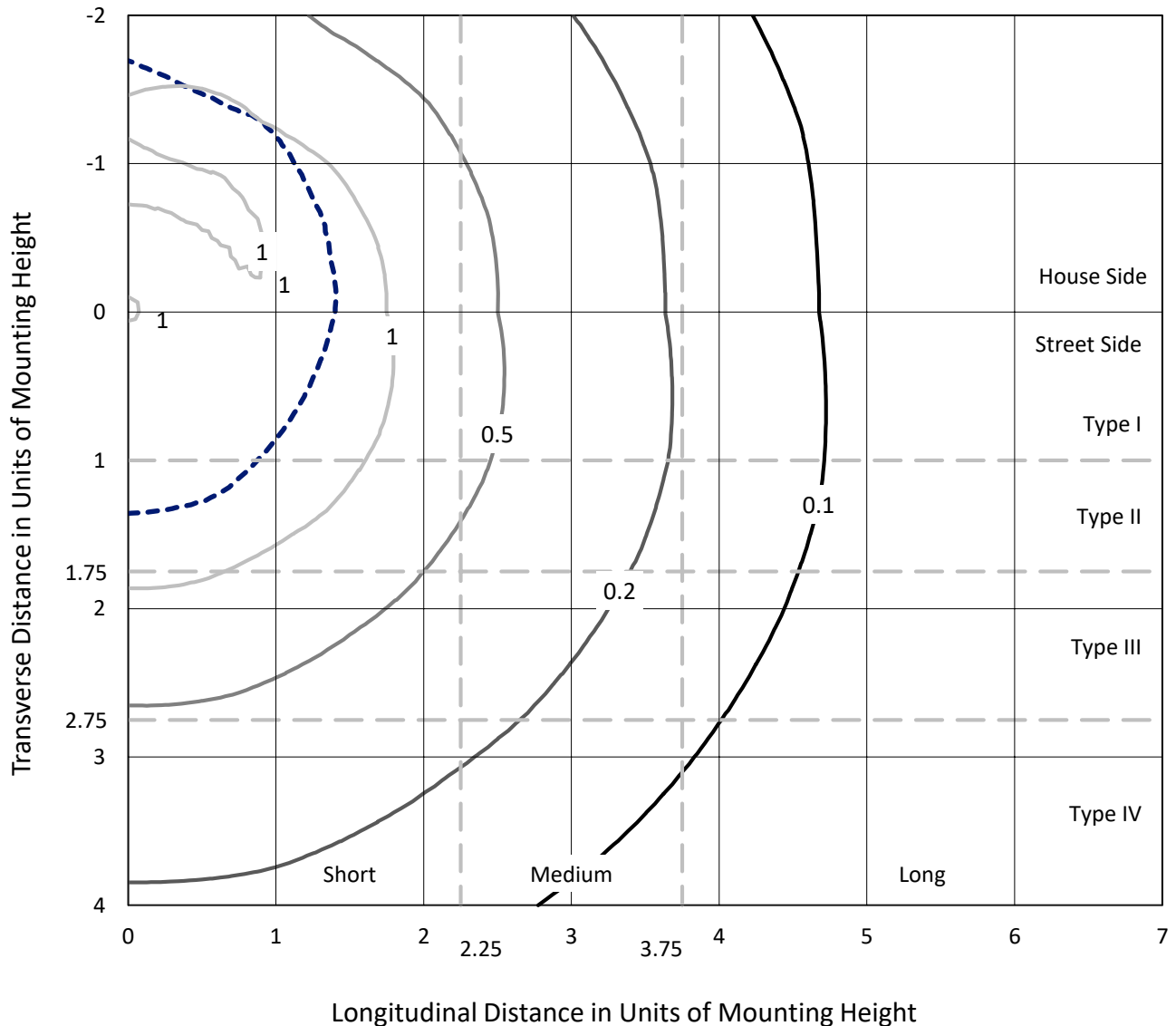
Input Watts (W): 64.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

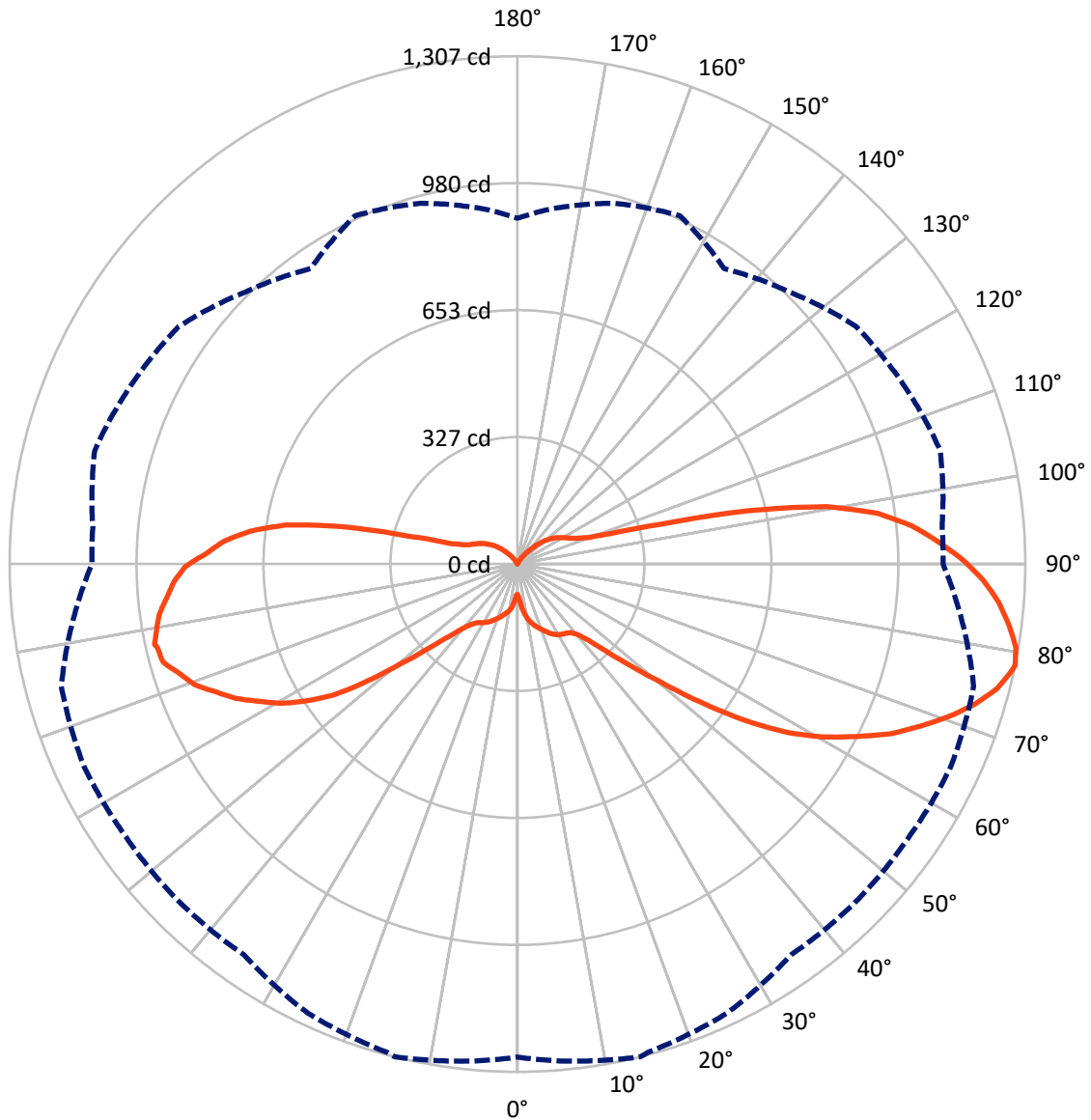


Based on 10 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 14-Deg Lateral - - - Horizontal Cone Through 78-Deg Vertical

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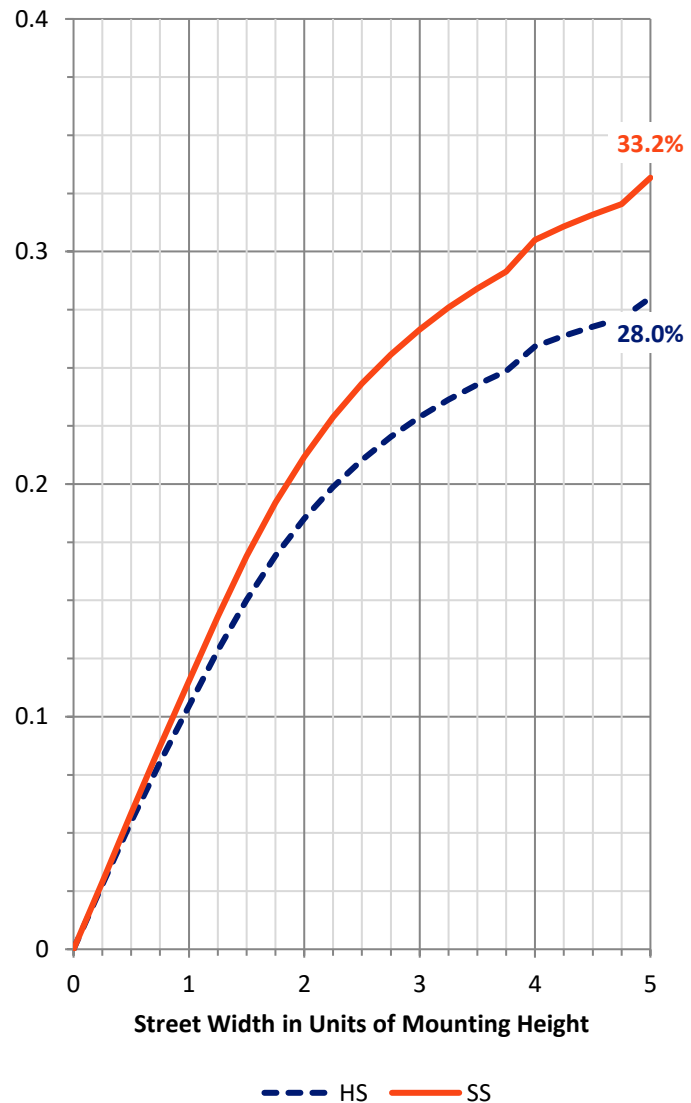
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1976.8	745.5	2722.4
	% Fixture	32.9	12.4	45.3
Street Side	Lumens	2379.4	912.2	3291.6
	% Fixture	39.6	15.2	54.7
Total	Lumens	4356.2	1657.8	6014.0
	% Fixture	72.4	27.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.8	0.2
10°-20°	42.9	0.7
20°-30°	84.1	1.4
30°-40°	128.7	2.1
40°-50°	243.9	4.1
50°-60°	588.3	9.8
60°-70°	931.0	15.5
70°-80°	1162.8	19.3
80°-90°	1163.9	19.4
90°-100°	956.4	15.9
100°-110°	405.0	6.7
110°-120°	141.1	2.3
120°-130°	94.0	1.6
130°-140°	46.9	0.8
140°-150°	13.8	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4356.2	72.4
0°-180°	6014.0	100.0



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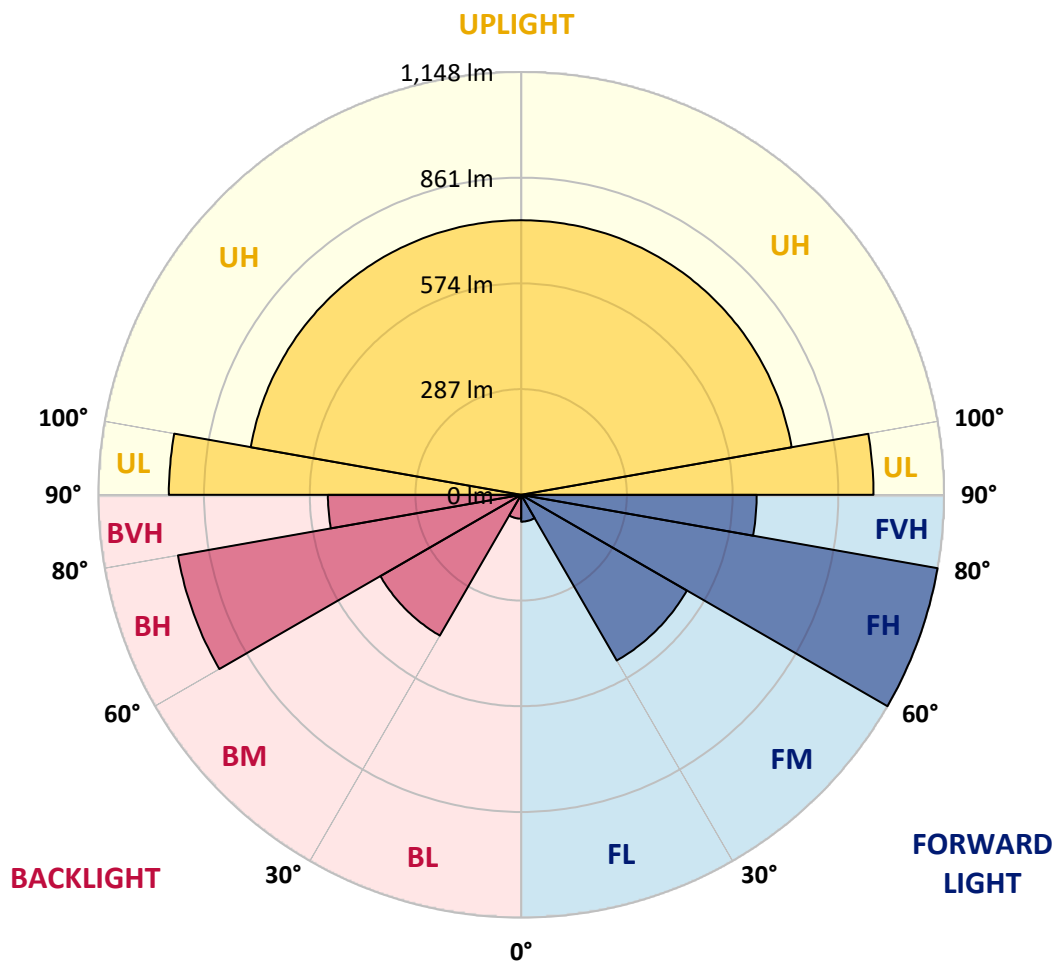
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	72.9	1.2			
FM (30°-60°)	519.5	8.6			
FH (60°-80°)	1147.8	19.1			G1/1800
FVH (80°-90°)	639.2	10.6			G4/750
BL (0°-30°)	64.8	1.1	B0/110		
BM (30°-60°)	441.4	7.3	B1/1000		
BH (60°-80°)	946.0	15.7	B2/1000		G2/1000
BVH (80°-90°)	524.7	8.7			G4/750
UL (90°-100°)	956.4	15.9		U4/1000	
UH (100°-180°)	745.5	12.4		U4/1000	

BUG Rating: B2-U4-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
2.5°	88.8	89.7	89.7	90.6	88.8	88.8	87.8	86.9	86.0	85.1	84.1
5°	111.0	111.0	111.0	111.0	109.1	110.0	109.1	107.3	105.4	105.4	103.6
7.5°	128.5	128.5	128.5	128.5	127.6	127.6	126.7	125.8	123.9	123.0	122.1
10°	141.5	142.4	143.3	143.3	142.4	141.5	139.6	138.7	137.8	135.9	133.2
12.5°	153.5	154.4	154.4	154.4	153.5	152.6	150.7	148.9	147.9	146.1	144.2
15°	163.7	163.7	163.7	162.7	161.8	160.9	159.0	158.1	156.3	154.4	152.6
17.5°	171.1	172.0	172.0	171.1	169.2	169.2	166.4	166.4	164.6	162.7	160.9
20°	180.3	180.3	180.3	179.4	178.5	177.5	174.8	173.8	172.9	171.1	169.2
22.5°	189.6	189.6	188.6	188.6	186.8	185.9	184.0	183.1	181.2	179.4	178.5
25°	199.7	199.7	197.9	197.9	196.0	194.2	192.3	191.4	189.6	188.6	187.7
27.5°	207.1	207.1	205.3	204.3	203.4	200.7	199.7	197.9	196.0	195.1	194.2
30°	213.6	212.7	210.8	210.8	209.0	206.2	204.3	202.5	200.7	200.7	200.7
32.5°	217.3	216.4	214.5	213.6	210.8	209.0	207.1	205.3	203.4	204.3	204.3
35°	221.0	221.0	218.2	217.3	214.5	211.7	209.0	207.1	206.2	207.1	208.0
37.5°	227.5	226.5	223.8	222.8	219.1	218.2	216.4	215.4	214.5	215.4	215.4
40°	241.3	241.3	238.6	237.6	234.9	235.8	234.9	235.8	233.9	235.8	233.0
42.5°	268.2	270.0	267.2	265.4	263.5	267.2	270.9	270.0	268.2	269.1	262.6
45°	315.3	319.0	319.9	317.2	311.6	321.8	327.3	328.3	323.6	320.9	310.7
47.5°	386.5	392.1	389.3	389.3	380.0	394.8	402.2	406.8	399.5	394.8	378.2
50°	476.2	485.4	476.2	479.9	463.3	489.1	501.2	503.9	497.5	487.3	466.0
52.5°	587.2	594.6	591.8	589.0	571.4	605.7	626.9	638.0	626.9	612.1	579.8
55°	712.9	712.0	710.1	712.9	696.3	724.0	756.4	762.8	759.1	728.6	691.6
57.5°	816.5	817.4	817.4	817.4	797.1	821.1	850.7	855.3	849.8	822.9	773.9
60°	896.9	899.7	903.4	905.2	885.8	896.9	928.4	927.4	921.9	888.6	847.0
62.5°	965.3	970.0	977.4	977.4	965.3	962.6	991.2	987.5	984.8	953.3	905.2
65°	1033.8	1038.4	1053.2	1052.3	1038.4	1025.4	1056.9	1054.1	1047.6	1016.2	958.9
67.5°	1092.0	1098.5	1115.1	1117.0	1106.8	1091.1	1110.5	1103.1	1099.4	1066.1	1003.3
70°	1154.0	1163.2	1176.2	1176.2	1152.1	1140.1	1157.7	1153.0	1157.7	1124.4	1052.3
72.5°	1201.1	1204.8	1231.6	1234.4	1206.7	1179.9	1200.2	1189.1	1192.8	1156.7	1085.5
75°	1250.1	1254.8	1276.0	1276.0	1238.1	1214.1	1228.9	1224.2	1230.7	1201.1	1117.9
77.5°	1268.6	1280.7	1302.8	1298.2	1271.4	1229.8	1245.5	1243.7	1247.4	1210.4	1129.0
78°	1268.6	1283.4	1306.5	1300.1	1275.1	1227.0	1229.8	1227.9	1230.7	1215.0	1134.6
80°	1264.9	1286.2	1300.1	1291.7	1270.5	1216.9	1215.0	1215.9	1221.5	1204.8	1119.8
82.5°	1236.3	1258.5	1273.3	1269.6	1251.1	1192.8	1202.1	1212.2	1224.2	1194.7	1108.7
85°	1210.4	1233.5	1240.9	1238.1	1216.9	1156.7	1164.1	1178.0	1172.5	1151.2	1074.5
87.5°	1176.2	1196.5	1199.3	1197.4	1178.9	1121.6	1127.2	1136.4	1142.0	1129.9	1045.8
90°	1121.6	1140.1	1146.6	1146.6	1127.2	1078.2	1091.1	1104.0	1114.2	1091.1	1007.9
92.5°	1061.5	1078.2	1084.6	1084.6	1068.0	1019.9	1028.2	1044.9	1046.7	1028.2	951.5
95°	997.7	1007.9	1019.9	1018.0	997.7	950.5	958.9	979.2	982.0	965.3	896.9
97.5°	917.3	921.0	935.8	933.0	912.6	878.4	890.4	908.9	910.8	894.1	827.6
100°	798.0	797.1	810.0	810.0	790.6	769.3	786.0	809.1	806.3	789.7	733.3
102.5°	600.1	589.0	607.5	605.7	600.1	591.8	608.4	630.6	636.2	624.1	566.8
105°	381.0	374.5	380.0	376.3	373.6	357.8	364.3	371.7	366.2	370.8	339.3
107.5°	251.5	247.8	251.5	250.6	245.0	237.6	236.7	238.6	237.6	233.9	216.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	193.3	191.4	194.2	193.3	190.5	186.8	185.9	187.7	187.7	184.9	174.8
112.5°	167.4	166.4	169.2	168.3	166.4	163.7	163.7	164.6	165.5	162.7	155.3
115°	150.7	151.6	153.5	153.5	151.6	147.9	148.9	150.7	150.7	148.9	143.3
117.5°	140.5	141.5	143.3	142.4	140.5	138.7	138.7	140.5	142.4	139.6	135.0
120°	132.2	132.2	134.1	133.2	131.3	130.4	131.3	133.2	134.1	131.3	126.7
122.5°	123.0	123.9	124.8	124.8	123.0	123.0	124.8	125.8	126.7	123.9	118.4
125°	112.8	113.7	114.7	114.7	113.7	114.7	115.6	116.5	118.4	115.6	110.0
127.5°	101.7	102.6	103.6	103.6	103.6	104.5	106.3	107.3	109.1	106.3	100.8
130°	88.8	89.7	91.5	90.6	91.5	93.4	96.2	96.2	97.1	95.2	89.7
132.5°	74.9	75.8	77.7	77.7	78.6	81.4	83.2	83.2	84.1	82.3	77.7
135°	60.1	61.0	63.8	63.8	65.7	67.5	69.3	69.3	70.3	68.4	63.8
137.5°	47.2	47.2	49.9	49.9	51.8	52.7	53.6	53.6	54.6	53.6	49.9
140°	37.0	37.0	39.8	38.8	40.7	40.7	40.7	40.7	41.6	40.7	37.9
142.5°	28.7	29.6	31.4	30.5	32.4	32.4	32.4	31.4	33.3	32.4	29.6
145°	22.2	22.2	24.0	23.1	24.0	25.0	25.0	24.0	25.0	24.0	22.2
147.5°	14.8	14.8	16.6	15.7	16.6	17.6	18.5	17.6	18.5	17.6	15.7
150°	7.4	7.4	9.2	8.3	9.2	10.2	11.1	11.1	11.1	10.2	8.3
152.5°	0.0	0.0	0.9	0.9	0.9	1.8	1.8	1.8	2.8	2.8	1.8
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	0.9	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.9	0.9
177.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.9
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°	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
2.5°	83.2	83.2	84.1	83.2	82.3	81.4	80.4	79.5	79.5	77.7	78.6
5°	103.6	102.6	101.7	99.9	98.9	98.0	97.1	96.2	96.2	96.2	97.1
7.5°	121.1	120.2	117.4	114.7	114.7	113.7	112.8	111.9	111.0	109.1	109.1
10°	132.2	131.3	129.5	128.5	126.7	125.8	124.8	123.0	121.1	117.4	117.4
12.5°	142.4	141.5	138.7	137.8	136.8	135.0	133.2	131.3	127.6	124.8	123.9
15°	151.6	149.8	147.0	146.1	144.2	141.5	139.6	137.8	134.1	130.4	129.5
17.5°	159.0	157.2	155.3	153.5	150.7	147.9	145.2	143.3	140.5	137.8	136.8
20°	167.4	165.5	163.7	160.9	158.1	155.3	152.6	149.8	147.9	145.2	145.2
22.5°	176.6	174.8	172.0	170.1	165.5	162.7	159.0	156.3	154.4	153.5	152.6
25°	185.9	184.0	180.3	177.5	172.9	169.2	166.4	162.7	160.9	161.8	161.8
27.5°	193.3	190.5	186.8	184.0	179.4	175.7	172.0	169.2	167.4	168.3	168.3
30°	198.8	197.0	193.3	189.6	184.9	180.3	177.5	173.8	172.9	173.8	174.8
32.5°	203.4	201.6	197.0	194.2	189.6	184.9	181.2	178.5	177.5	178.5	178.5
35°	207.1	206.2	201.6	197.0	193.3	188.6	185.9	183.1	183.1	184.9	184.0
37.5°	213.6	212.7	208.0	203.4	199.7	196.0	194.2	192.3	193.3	194.2	194.2
40°	230.2	224.7	221.0	215.4	211.7	209.9	208.0	208.0	209.0	209.9	209.9
42.5°	258.0	253.4	247.8	240.4	236.7	233.9	231.2	233.9	235.8	234.9	234.9
45°	302.4	296.8	288.5	277.4	270.9	267.2	267.2	270.9	272.8	270.0	268.2
47.5°	367.1	358.8	348.6	335.7	325.5	321.8	319.0	325.5	326.4	319.9	314.4
50°	449.4	442.0	429.0	415.2	405.9	395.8	387.4	396.7	396.7	382.8	377.3
52.5°	562.2	548.3	534.5	518.7	503.9	488.2	477.1	492.8	490.1	469.7	459.6
55°	672.2	664.8	655.6	628.8	614.9	586.2	573.3	589.9	582.5	553.9	546.5
57.5°	749.0	753.6	745.3	724.0	705.5	671.3	648.2	661.1	649.1	620.4	602.0
60°	811.9	816.5	813.7	789.7	777.6	734.2	702.7	718.5	709.2	675.9	658.4
62.5°	867.3	873.8	873.8	848.8	838.7	780.4	748.0	766.5	755.4	723.1	710.1
65°	921.0	925.6	928.4	903.4	891.4	823.9	786.9	810.9	806.3	773.0	766.5
67.5°	964.4	972.7	979.2	956.1	937.6	871.0	822.9	860.9	845.1	818.3	798.9
70°	1012.5	1018.0	1028.2	1007.9	990.3	915.4	854.4	906.2	889.5	859.0	833.1
72.5°	1045.8	1048.6	1070.8	1048.6	1019.9	951.5	888.6	945.9	917.3	876.6	853.5
75°	1076.3	1080.9	1109.6	1080.9	1059.7	982.9	910.8	977.4	950.5	903.4	879.4
77.5°	1086.5	1089.2	1119.8	1088.3	1058.7	988.5	925.6	984.8	956.1	908.9	884.9
78°	1094.8	1096.6	1126.2	1094.8	1064.3	989.4	927.4	988.5	960.7	915.4	889.5
80°	1079.1	1085.5	1112.4	1084.6	1053.2	980.1	916.3	981.1	949.6	898.8	875.7
82.5°	1063.4	1068.0	1090.2	1061.5	1033.8	965.3	901.5	963.5	935.8	882.1	862.7
85°	1029.1	1038.4	1064.3	1038.4	1007.0	939.5	884.9	944.1	911.7	858.1	835.0
87.5°	1001.4	1012.5	1035.6	1017.1	985.7	916.3	859.0	921.0	890.4	837.7	815.5
90°	961.6	970.0	989.4	968.1	938.5	874.7	827.6	884.0	859.9	811.9	791.5
92.5°	908.0	916.3	935.8	913.6	887.7	823.9	778.6	835.0	803.5	763.8	741.6
95°	855.3	862.7	880.3	862.7	839.6	778.6	736.0	792.4	760.1	721.2	704.6
97.5°	788.7	794.3	810.0	790.6	771.2	712.9	673.2	724.9	695.3	663.9	643.6
100°	692.6	694.4	702.7	679.6	671.3	619.5	589.0	633.4	608.4	586.2	566.8
102.5°	534.5	516.9	516.0	504.9	491.9	450.3	439.2	463.3	465.1	446.6	435.5
105°	320.9	307.9	305.1	299.6	286.6	266.3	258.9	283.9	281.1	275.5	266.3
107.5°	207.1	203.4	203.4	198.8	191.4	179.4	173.8	184.0	180.3	177.5	173.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	169.2	167.4	167.4	162.7	159.0	148.9	144.2	150.7	147.9	146.1	142.4
112.5°	150.7	148.9	148.9	146.1	142.4	134.1	131.3	136.8	133.2	130.4	128.5
115°	138.7	137.8	136.8	134.1	131.3	123.9	121.1	126.7	123.9	121.1	120.2
117.5°	130.4	128.5	128.5	125.8	123.0	116.5	114.7	118.4	115.6	112.8	111.9
120°	122.1	121.1	120.2	118.4	115.6	109.1	107.3	110.0	108.2	105.4	103.6
122.5°	114.7	113.7	111.9	110.0	106.3	100.8	99.9	101.7	98.9	96.2	95.2
125°	106.3	104.5	103.6	100.8	97.1	92.5	91.5	92.5	89.7	86.9	86.0
127.5°	98.0	95.2	93.4	90.6	86.9	82.3	82.3	83.2	81.4	78.6	77.7
130°	86.9	85.1	82.3	79.5	75.8	72.1	72.1	73.0	71.2	69.3	69.3
132.5°	74.9	72.1	70.3	67.5	64.7	62.0	62.0	62.0	61.0	60.1	59.2
135°	62.0	60.1	57.3	55.5	52.7	50.9	50.9	51.8	50.9	49.0	49.0
137.5°	48.1	46.2	44.4	43.5	41.6	39.8	39.8	40.7	39.8	38.8	38.8
140°	37.0	35.1	34.2	33.3	31.4	30.5	30.5	30.5	30.5	29.6	29.6
142.5°	28.7	27.7	26.8	25.9	25.0	23.1	24.0	24.0	24.0	23.1	23.1
145°	21.3	20.3	19.4	18.5	18.5	17.6	17.6	17.6	17.6	17.6	16.6
147.5°	14.8	13.9	12.9	12.0	12.0	12.0	12.0	12.0	12.0	11.1	11.1
150°	8.3	7.4	6.5	5.5	5.5	5.5	5.5	6.5	5.5	5.5	5.5
152.5°	1.8	0.9	0.9	0.9	0.9	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	0.0	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	0.9	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	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

(END OF REPORT)