

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: P314616

Luminaire Tested: **MPB-A6-D-U-SYM-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P314616  
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-7027  
Description: BRECKENRIDGE 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: 5727 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U4 - G4

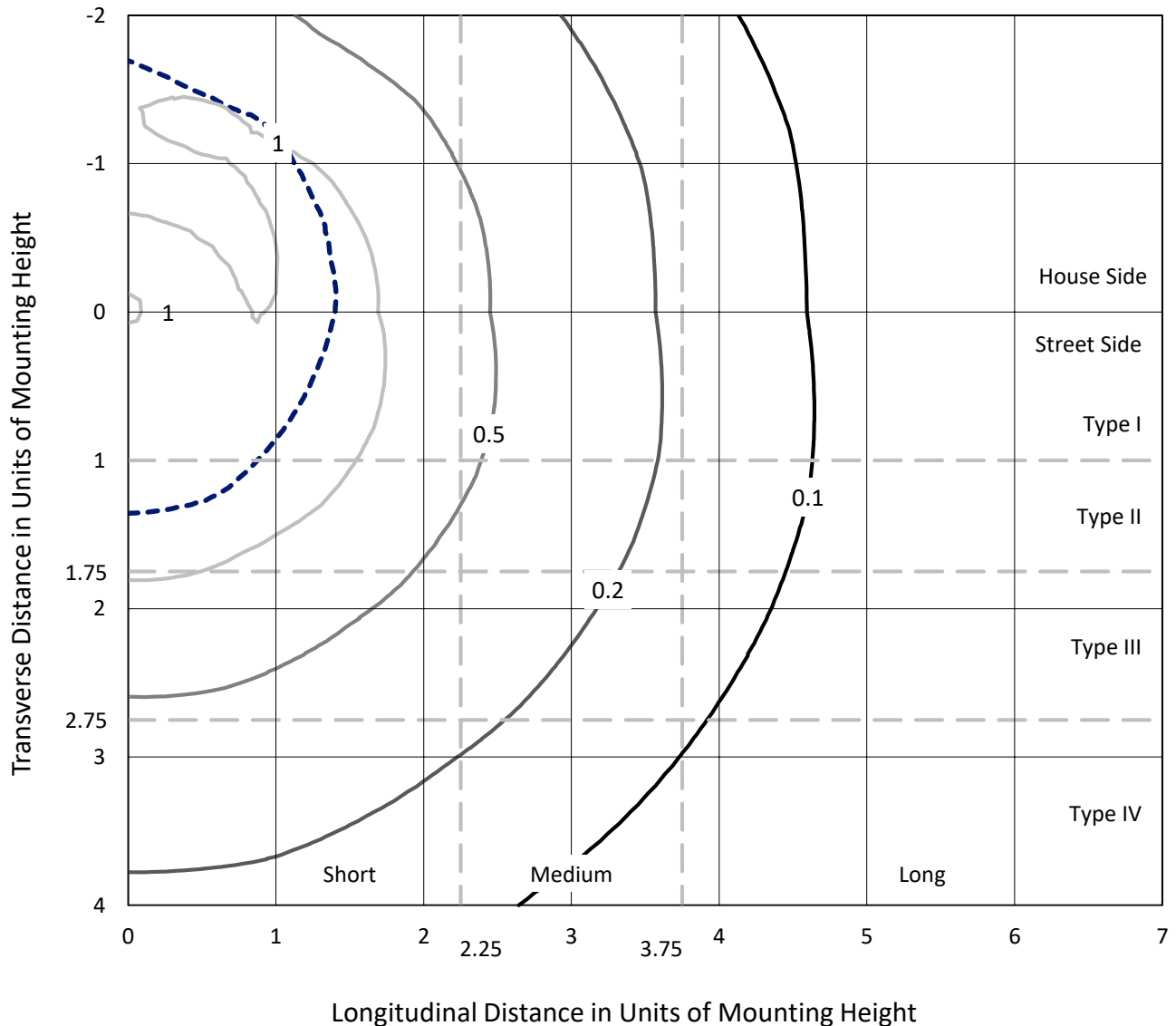
Input Watts (W): 64.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

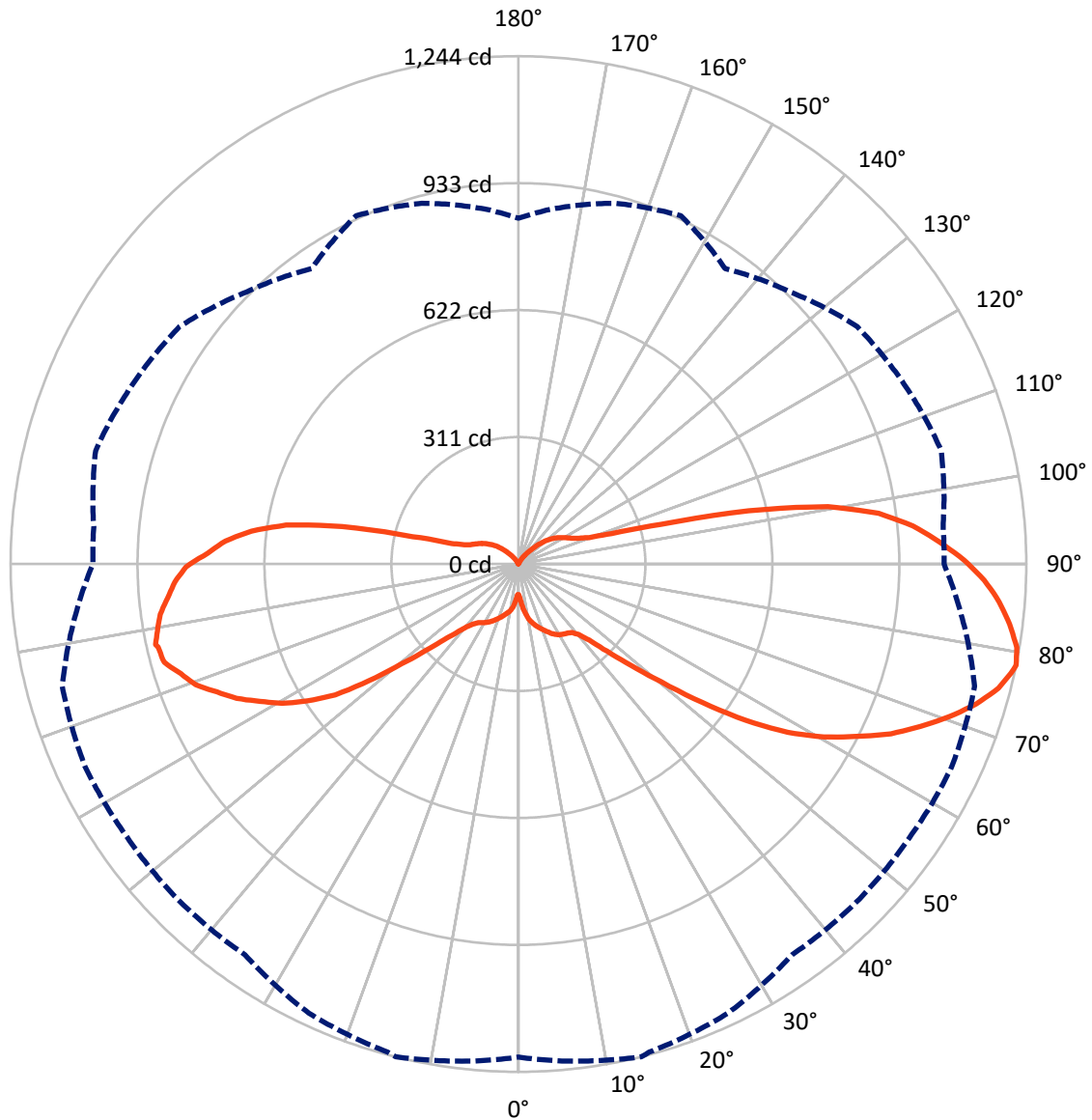
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.4 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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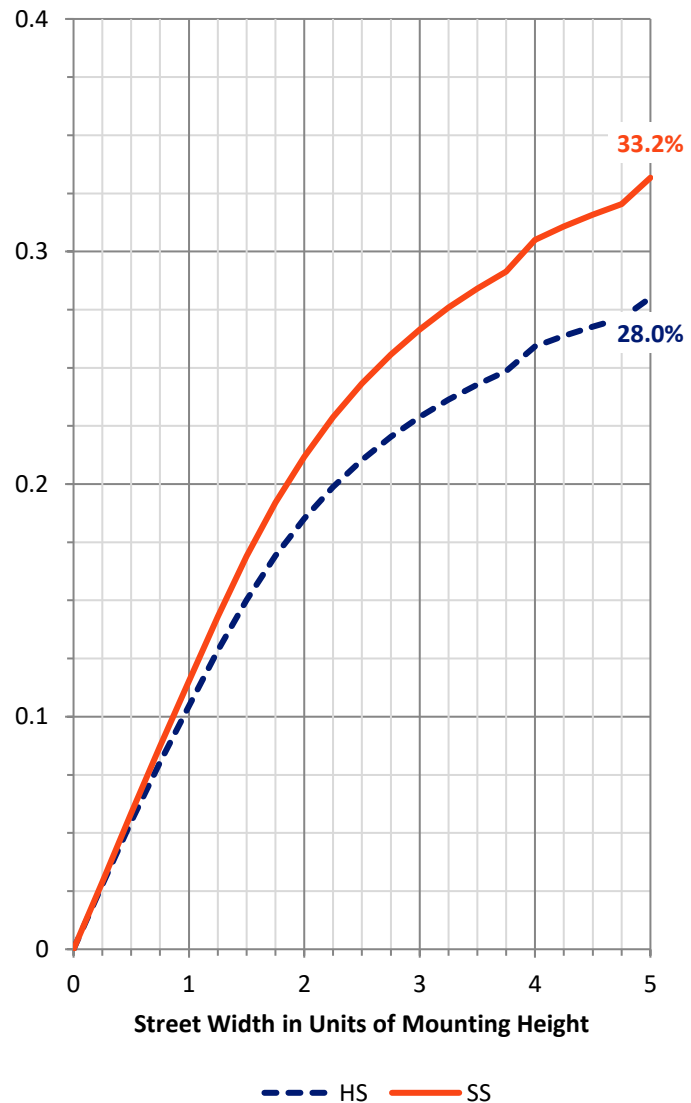
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1882.5	710.0	2592.4
	% Fixture	32.9	12.4	45.3
<b>Street Side</b>	Lumens	2265.9	868.7	3134.6
	% Fixture	39.6	15.2	54.7
<b>Total</b>	Lumens	4148.4	1578.7	5727.0
	% Fixture	72.4	27.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.2	0.2
10°-20°	40.8	0.7
20°-30°	80.1	1.4
30°-40°	122.5	2.1
40°-50°	232.3	4.1
50°-60°	560.2	9.8
60°-70°	886.6	15.5
70°-80°	1107.3	19.3
80°-90°	1108.3	19.4
90°-100°	910.7	15.9
100°-110°	385.6	6.7
110°-120°	134.3	2.3
120°-130°	89.5	1.6
130°-140°	44.6	0.8
140°-150°	13.1	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4148.4	72.4
0°-180°	5727.0	100.0



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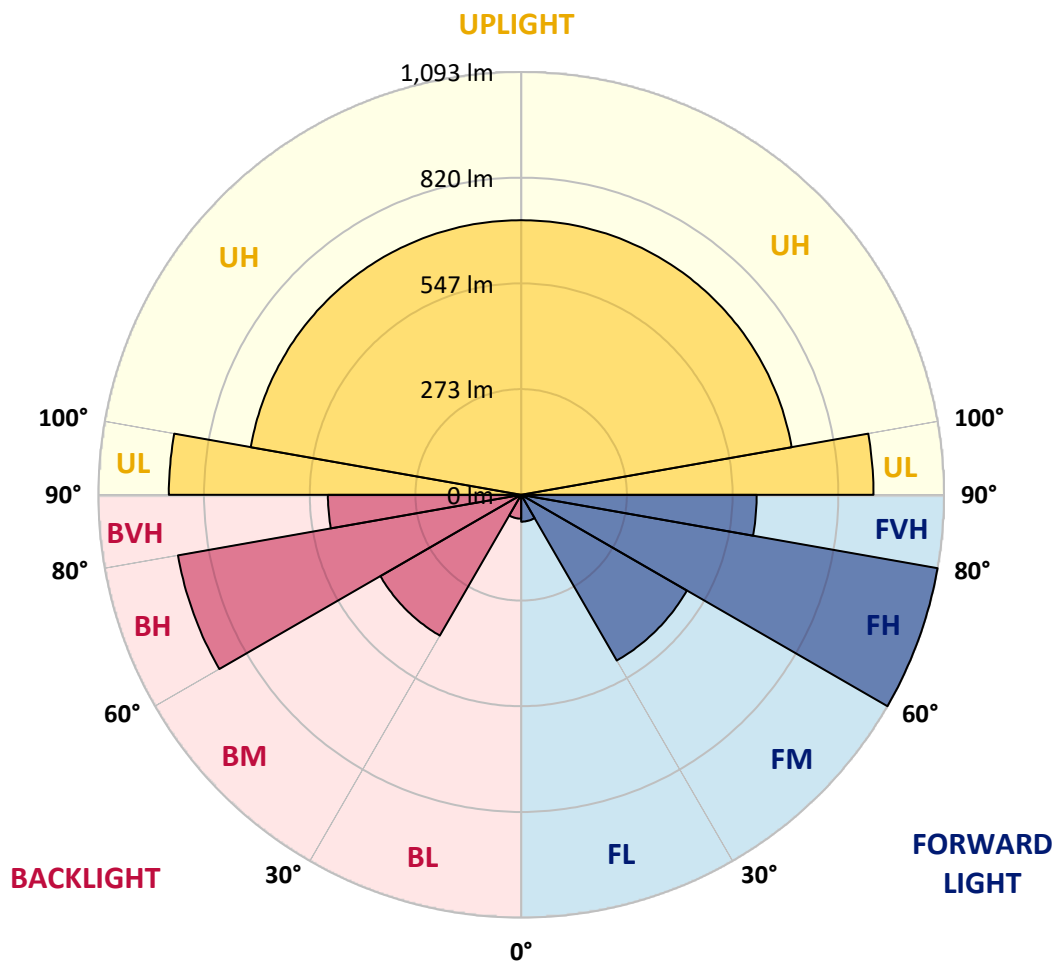
CATALOG NUMBER: MPB-A6-D-U-SYM-7027

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	69.4	1.2			
FM (30°-60°)	494.7	8.6			
FH (60°-80°)	1093.0	19.1			G1/1800
FVH (80°-90°)	608.7	10.6			G4/750
BL (0°-30°)	61.7	1.1	B0/110		
BM (30°-60°)	420.3	7.3	B1/1000		
BH (60°-80°)	900.8	15.7	B2/1000		G2/1000
BVH (80°-90°)	499.6	8.7			G3/500
UL (90°-100°)	910.7	15.9		U4/1000	
UH (100°-180°)	710.0	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°	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
2.5°	84.5	85.4	85.4	86.3	84.5	84.5	83.7	82.8	81.9	81.0	80.1
5°	105.7	105.7	105.7	105.7	103.9	104.8	103.9	102.1	100.4	100.4	98.6
7.5°	122.4	122.4	122.4	122.4	121.5	121.5	120.6	119.8	118.0	117.1	116.2
10°	134.7	135.6	136.5	136.5	135.6	134.7	133.0	132.1	131.2	129.4	126.8
12.5°	146.2	147.0	147.0	147.0	146.2	145.3	143.5	141.8	140.9	139.1	137.4
15°	155.9	155.9	155.9	155.0	154.1	153.2	151.5	150.6	148.8	147.0	145.3
17.5°	162.9	163.8	163.8	162.9	161.1	161.1	158.5	158.5	156.7	155.0	153.2
20°	171.7	171.7	171.7	170.8	169.9	169.1	166.4	165.5	164.7	162.9	161.1
22.5°	180.5	180.5	179.6	179.6	177.9	177.0	175.2	174.3	172.6	170.8	169.9
25°	190.2	190.2	188.4	188.4	186.7	184.9	183.2	182.3	180.5	179.6	178.7
27.5°	197.2	197.2	195.5	194.6	193.7	191.1	190.2	188.4	186.7	185.8	184.9
30°	203.4	202.5	200.8	200.8	199.0	196.4	194.6	192.8	191.1	191.1	191.1
32.5°	206.9	206.0	204.3	203.4	200.8	199.0	197.2	195.5	193.7	194.6	194.6
35°	210.4	210.4	207.8	206.9	204.3	201.6	199.0	197.2	196.4	197.2	198.1
37.5°	216.6	215.7	213.1	212.2	208.7	207.8	206.0	205.2	204.3	205.2	205.2
40°	229.8	229.8	227.2	226.3	223.7	224.5	223.7	224.5	222.8	224.5	221.9
42.5°	255.4	257.1	254.5	252.7	251.0	254.5	258.0	257.1	255.4	256.2	250.1
45°	300.3	303.8	304.7	302.0	296.7	306.4	311.7	312.6	308.2	305.5	295.9
47.5°	368.1	373.3	370.7	370.7	361.9	376.0	383.0	387.4	380.4	376.0	360.1
50°	453.5	462.3	453.5	457.0	441.1	465.8	477.2	479.9	473.7	464.0	443.8
52.5°	559.1	566.2	563.5	560.9	544.2	576.7	597.0	607.6	597.0	582.9	552.1
55°	678.9	678.0	676.2	678.9	663.0	689.5	720.3	726.4	722.9	693.9	658.6
57.5°	777.5	778.4	778.4	778.4	759.0	781.9	810.1	814.5	809.2	783.7	737.0
60°	854.1	856.8	860.3	862.0	843.6	854.1	884.1	883.2	877.9	846.2	806.6
62.5°	919.3	923.7	930.7	930.7	919.3	916.6	943.9	940.4	937.8	907.8	862.0
65°	984.4	988.8	1002.9	1002.0	988.8	976.5	1006.4	1003.8	997.6	967.7	913.1
67.5°	1039.9	1046.1	1061.9	1063.7	1054.0	1039.0	1057.5	1050.5	1047.0	1015.3	955.4
70°	1098.9	1107.7	1120.0	1120.0	1097.1	1085.7	1102.4	1098.0	1102.4	1070.7	1002.0
72.5°	1143.8	1147.3	1172.9	1175.5	1149.1	1123.6	1142.9	1132.4	1135.9	1101.5	1033.7
75°	1190.5	1194.9	1215.1	1215.1	1179.0	1156.1	1170.2	1165.8	1172.0	1143.8	1064.6
77.5°	1208.1	1219.5	1240.7	1236.3	1210.7	1171.1	1186.1	1184.3	1187.8	1152.6	1075.1
78°	1208.1	1222.2	1244.2	1238.0	1214.3	1168.5	1171.1	1169.3	1172.0	1157.0	1080.4
80°	1204.6	1224.8	1238.0	1230.1	1209.9	1158.8	1157.0	1157.9	1163.2	1147.3	1066.3
82.5°	1177.3	1198.4	1212.5	1209.0	1191.4	1135.9	1144.7	1154.4	1165.8	1137.6	1055.8
85°	1152.6	1174.6	1181.7	1179.0	1158.8	1101.5	1108.6	1121.8	1116.5	1096.3	1023.2
87.5°	1120.0	1139.4	1142.1	1140.3	1122.7	1068.1	1073.4	1082.2	1087.5	1076.0	995.9
90°	1068.1	1085.7	1091.9	1091.9	1073.4	1026.7	1039.0	1051.4	1061.0	1039.0	959.8
92.5°	1010.9	1026.7	1032.9	1032.9	1017.0	971.2	979.2	995.0	996.8	979.2	906.1
95°	950.1	959.8	971.2	969.5	950.1	905.2	913.1	932.5	935.1	919.3	854.1
97.5°	873.5	877.0	891.1	888.5	869.1	836.5	848.0	865.6	867.3	851.5	788.1
100°	759.9	759.0	771.3	771.3	752.9	732.6	748.5	770.5	767.8	752.0	698.3
102.5°	571.5	560.9	578.5	576.7	571.5	563.5	579.4	600.5	605.8	594.4	539.8
105°	362.8	356.6	361.9	358.4	355.7	340.8	346.9	354.0	348.7	353.1	323.2
107.5°	239.5	236.0	239.5	238.6	233.3	226.3	225.4	227.2	226.3	222.8	206.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	184.0	182.3	184.9	184.0	181.4	177.9	177.0	178.7	178.7	176.1	166.4
112.5°	159.4	158.5	161.1	160.3	158.5	155.9	155.9	156.7	157.6	155.0	147.9
115°	143.5	144.4	146.2	146.2	144.4	140.9	141.8	143.5	143.5	141.8	136.5
117.5°	133.8	134.7	136.5	135.6	133.8	132.1	132.1	133.8	135.6	133.0	128.6
120°	125.9	125.9	127.7	126.8	125.0	124.2	125.0	126.8	127.7	125.0	120.6
122.5°	117.1	118.0	118.9	118.9	117.1	117.1	118.9	119.8	120.6	118.0	112.7
125°	107.4	108.3	109.2	109.2	108.3	109.2	110.1	110.9	112.7	110.1	104.8
127.5°	96.9	97.7	98.6	98.6	98.6	99.5	101.3	102.1	103.9	101.3	96.0
130°	84.5	85.4	87.2	86.3	87.2	88.9	91.6	91.6	92.5	90.7	85.4
132.5°	71.3	72.2	74.0	74.0	74.8	77.5	79.2	79.2	80.1	78.4	74.0
135°	57.2	58.1	60.8	60.8	62.5	64.3	66.0	66.0	66.9	65.2	60.8
137.5°	44.9	44.9	47.5	47.5	49.3	50.2	51.1	51.1	52.0	51.1	47.5
140°	35.2	35.2	37.9	37.0	38.7	38.7	38.7	38.7	39.6	38.7	36.1
142.5°	27.3	28.2	29.9	29.1	30.8	30.8	30.8	29.9	31.7	30.8	28.2
145°	21.1	21.1	22.9	22.0	22.9	23.8	23.8	22.9	23.8	22.9	21.1
147.5°	14.1	14.1	15.8	15.0	15.8	16.7	17.6	16.7	17.6	16.7	15.0
150°	7.0	7.0	8.8	7.9	8.8	9.7	10.6	10.6	10.6	9.7	7.9
152.5°	0.0	0.0	0.9	0.9	0.9	1.8	1.8	1.8	2.6	2.6	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°	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
2.5°	79.2	79.2	80.1	79.2	78.4	77.5	76.6	75.7	75.7	74.0	74.8
5°	98.6	97.7	96.9	95.1	94.2	93.3	92.5	91.6	91.6	91.6	92.5
7.5°	115.3	114.5	111.8	109.2	109.2	108.3	107.4	106.5	105.7	103.9	103.9
10°	125.9	125.0	123.3	122.4	120.6	119.8	118.9	117.1	115.3	111.8	111.8
12.5°	135.6	134.7	132.1	131.2	130.3	128.6	126.8	125.0	121.5	118.9	118.0
15°	144.4	142.6	140.0	139.1	137.4	134.7	133.0	131.2	127.7	124.2	123.3
17.5°	151.5	149.7	147.9	146.2	143.5	140.9	138.2	136.5	133.8	131.2	130.3
20°	159.4	157.6	155.9	153.2	150.6	147.9	145.3	142.6	140.9	138.2	138.2
22.5°	168.2	166.4	163.8	162.0	157.6	155.0	151.5	148.8	147.0	146.2	145.3
25°	177.0	175.2	171.7	169.1	164.7	161.1	158.5	155.0	153.2	154.1	154.1
27.5°	184.0	181.4	177.9	175.2	170.8	167.3	163.8	161.1	159.4	160.3	160.3
30°	189.3	187.6	184.0	180.5	176.1	171.7	169.1	165.5	164.7	165.5	166.4
32.5°	193.7	192.0	187.6	184.9	180.5	176.1	172.6	169.9	169.1	169.9	169.9
35°	197.2	196.4	192.0	187.6	184.0	179.6	177.0	174.3	174.3	176.1	175.2
37.5°	203.4	202.5	198.1	193.7	190.2	186.7	184.9	183.2	184.0	184.9	184.9
40°	219.3	214.0	210.4	205.2	201.6	199.9	198.1	198.1	199.0	199.9	199.9
42.5°	245.7	241.3	236.0	228.9	225.4	222.8	220.1	222.8	224.5	223.7	223.7
45°	287.9	282.7	274.7	264.2	258.0	254.5	254.5	258.0	259.8	257.1	255.4
47.5°	349.6	341.6	332.0	319.6	309.9	306.4	303.8	309.9	310.8	304.7	299.4
50°	427.9	420.9	408.6	395.4	386.6	376.9	368.9	377.7	377.7	364.5	359.3
52.5°	535.4	522.2	508.9	494.0	479.9	464.9	454.4	469.3	466.7	447.3	437.6
55°	640.1	633.1	624.3	598.8	585.6	558.3	545.9	561.8	554.7	527.4	520.4
57.5°	713.2	717.6	709.7	689.5	671.8	639.3	617.3	629.6	618.1	590.8	573.2
60°	773.1	777.5	774.9	752.0	740.5	699.1	669.2	684.2	675.4	643.7	626.9
62.5°	825.9	832.1	832.1	808.3	798.6	743.2	712.4	730.0	719.4	688.6	676.2
65°	877.0	881.4	884.1	860.3	848.8	784.6	749.3	772.2	767.8	736.1	730.0
67.5°	918.4	926.3	932.5	910.5	892.9	829.5	783.7	819.8	804.8	779.3	760.8
70°	964.2	969.5	979.2	959.8	943.1	871.7	813.6	862.9	847.1	818.0	793.4
72.5°	995.9	998.5	1019.7	998.5	971.2	906.1	846.2	900.8	873.5	834.7	812.7
75°	1024.9	1029.3	1056.6	1029.3	1009.1	936.0	867.3	930.7	905.2	860.3	837.4
77.5°	1034.6	1037.3	1066.3	1036.4	1008.2	941.3	881.4	937.8	910.5	865.6	842.7
78°	1042.6	1044.3	1072.5	1042.6	1013.5	942.2	883.2	941.3	914.9	871.7	847.1
80°	1027.6	1033.7	1059.3	1032.9	1002.9	933.4	872.6	934.2	904.3	855.9	833.9
82.5°	1012.6	1017.0	1038.1	1010.9	984.4	919.3	858.5	917.5	891.1	840.0	821.5
85°	980.0	988.8	1013.5	988.8	958.9	894.6	842.7	899.0	868.2	817.1	795.1
87.5°	953.6	964.2	986.2	968.6	938.6	872.6	818.0	877.0	848.0	797.8	776.6
90°	915.8	923.7	942.2	921.9	893.7	833.0	788.1	841.8	818.9	773.1	753.7
92.5°	864.7	872.6	891.1	870.0	845.3	784.6	741.4	795.1	765.2	727.3	706.2
95°	814.5	821.5	838.3	821.5	799.5	741.4	700.9	754.6	723.8	686.8	671.0
97.5°	751.1	756.4	771.3	752.9	734.4	678.9	641.0	690.3	662.2	632.2	612.9
100°	659.5	661.3	669.2	647.2	639.3	590.0	560.9	603.2	579.4	558.3	539.8
102.5°	508.9	492.2	491.3	480.8	468.4	428.8	418.3	441.1	442.9	425.3	414.7
105°	305.5	293.2	290.6	285.3	273.0	253.6	246.5	270.3	267.7	262.4	253.6
107.5°	197.2	193.7	193.7	189.3	182.3	170.8	165.5	175.2	171.7	169.1	165.5



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	161.1	159.4	159.4	155.0	151.5	141.8	137.4	143.5	140.9	139.1	135.6
112.5°	143.5	141.8	141.8	139.1	135.6	127.7	125.0	130.3	126.8	124.2	122.4
115°	132.1	131.2	130.3	127.7	125.0	118.0	115.3	120.6	118.0	115.3	114.5
117.5°	124.2	122.4	122.4	119.8	117.1	110.9	109.2	112.7	110.1	107.4	106.5
120°	116.2	115.3	114.5	112.7	110.1	103.9	102.1	104.8	103.0	100.4	98.6
122.5°	109.2	108.3	106.5	104.8	101.3	96.0	95.1	96.9	94.2	91.6	90.7
125°	101.3	99.5	98.6	96.0	92.5	88.1	87.2	88.1	85.4	82.8	81.9
127.5°	93.3	90.7	88.9	86.3	82.8	78.4	78.4	79.2	77.5	74.8	74.0
130°	82.8	81.0	78.4	75.7	72.2	68.7	68.7	69.6	67.8	66.0	66.0
132.5°	71.3	68.7	66.9	64.3	61.6	59.0	59.0	59.0	58.1	57.2	56.4
135°	59.0	57.2	54.6	52.8	50.2	48.4	48.4	49.3	48.4	46.7	46.7
137.5°	45.8	44.0	42.3	41.4	39.6	37.9	37.9	38.7	37.9	37.0	37.0
140°	35.2	33.5	32.6	31.7	29.9	29.1	29.1	29.1	29.1	28.2	28.2
142.5°	27.3	26.4	25.5	24.7	23.8	22.0	22.9	22.9	22.9	22.0	22.0
145°	20.3	19.4	18.5	17.6	17.6	16.7	16.7	16.7	16.7	16.7	15.8
147.5°	14.1	13.2	12.3	11.4	11.4	11.4	11.4	11.4	11.4	10.6	10.6
150°	7.9	7.0	6.2	5.3	5.3	5.3	5.3	6.2	5.3	5.3	5.3
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)