

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: P314639

Luminaire Tested: **MPB-A5-D-U-ASYM-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPB-A5-D-U-ASYM-7030
Description: BRECKENRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 3000K LIGHT ENGINE. ASYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4780 lumens
Efficiency: N/A
Efficacy: 93.4 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): 51.2
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

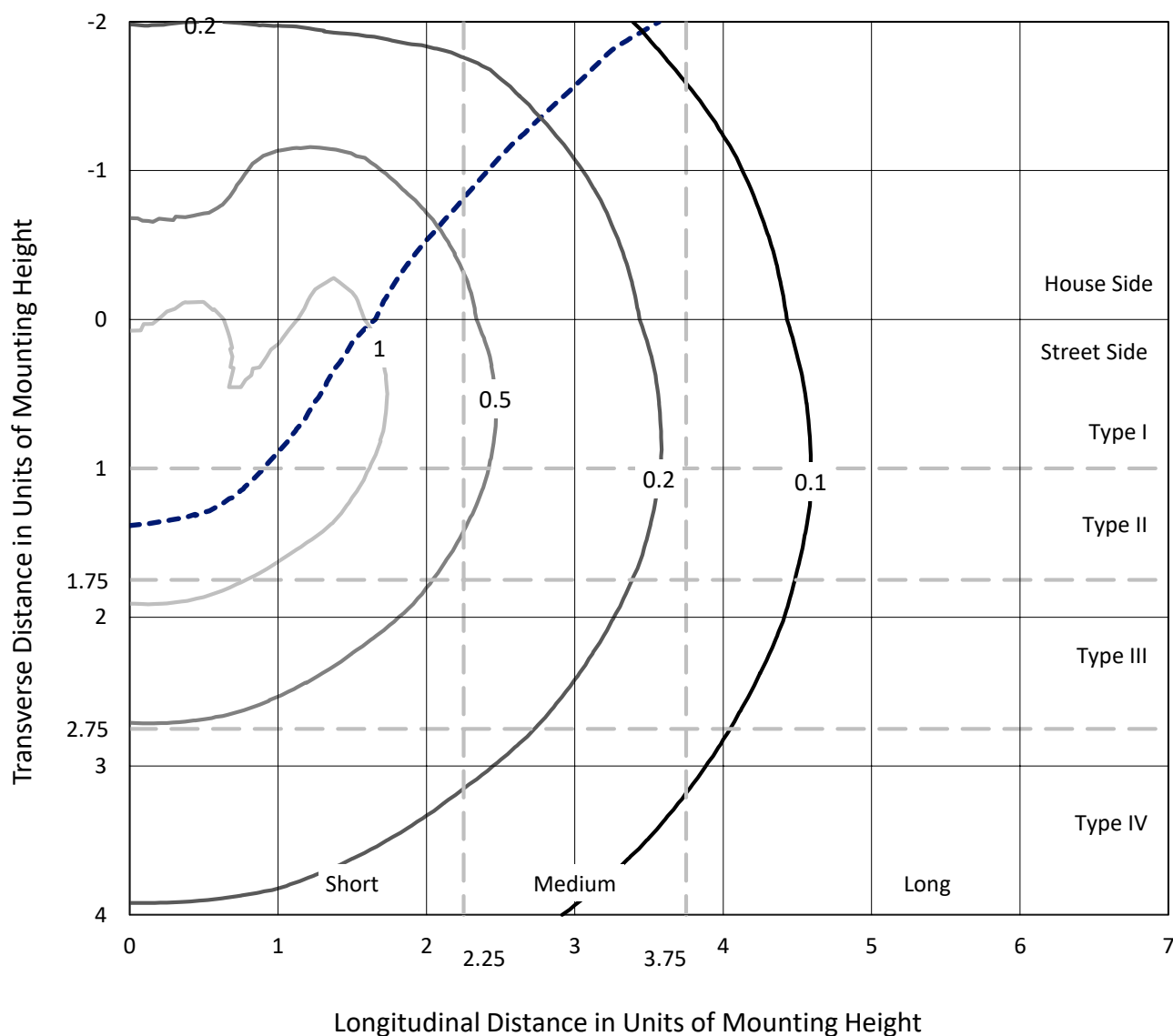


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

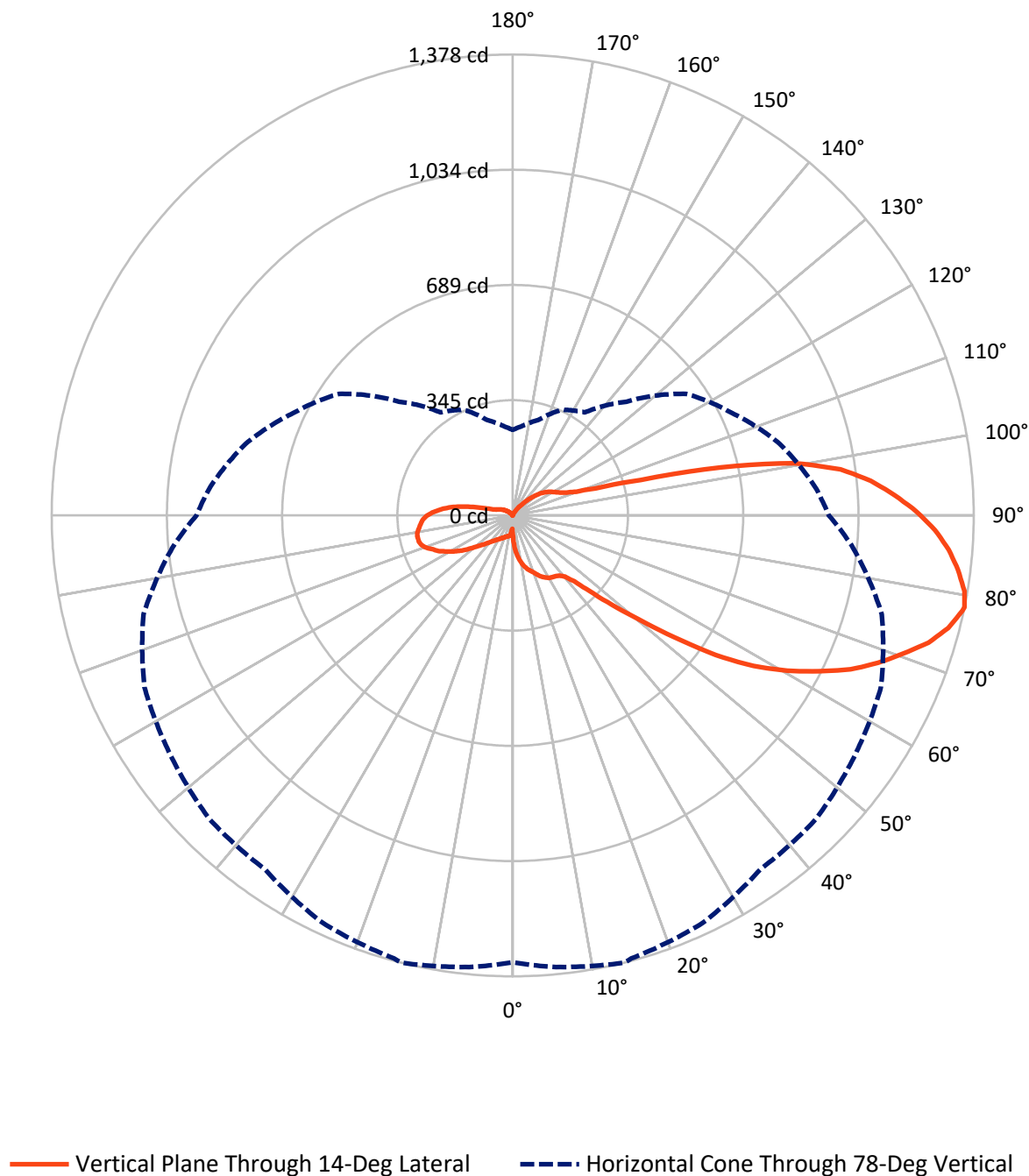


Based on 10 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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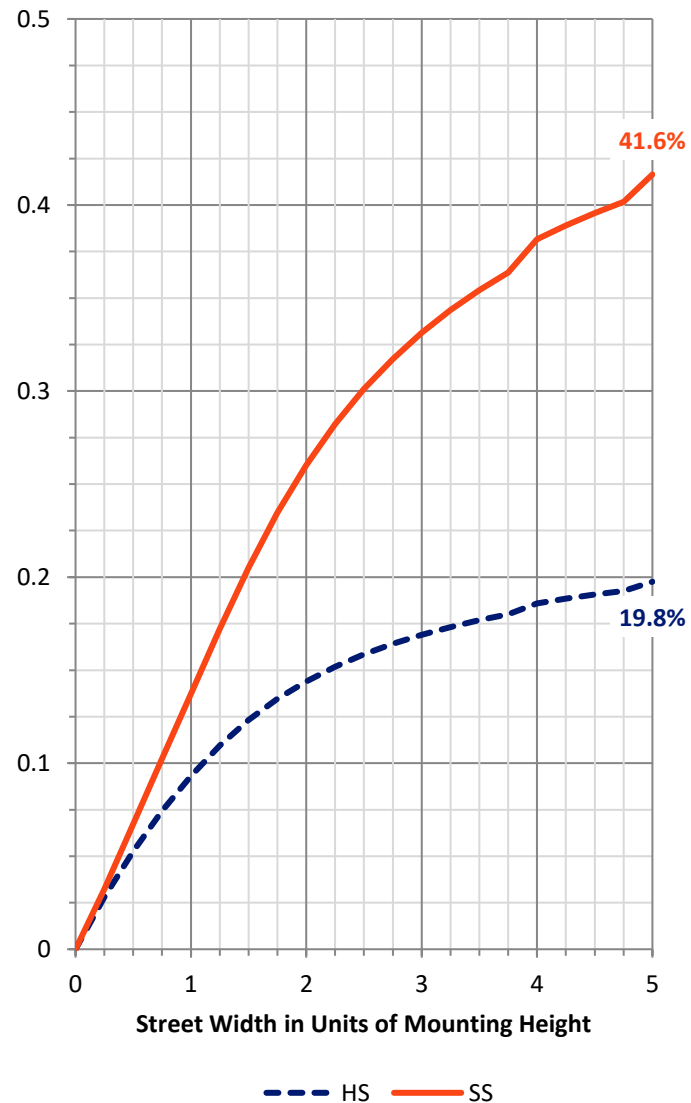
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1072.4	393.6	1466.1
	% Fixture	22.4	8.2	30.7
Street Side	Lumens	2389.6	924.4	3313.9
	% Fixture	50.0	19.3	69.3
Total	Lumens	3462.0	1318.0	4780.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.2
10°-20°	33.8	0.7
20°-30°	66.9	1.4
30°-40°	102.1	2.1
40°-50°	193.5	4.0
50°-60°	466.5	9.8
60°-70°	739.8	15.5
70°-80°	924.9	19.4
80°-90°	925.9	19.4
90°-100°	759.4	15.9
100°-110°	323.6	6.8
110°-120°	111.7	2.3
120°-130°	74.6	1.6
130°-140°	37.1	0.8
140°-150°	10.7	0.2
150°-160°	0.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	3462.0	72.4
0°-180°	4780.0	100.0

Coefficient of Utilization



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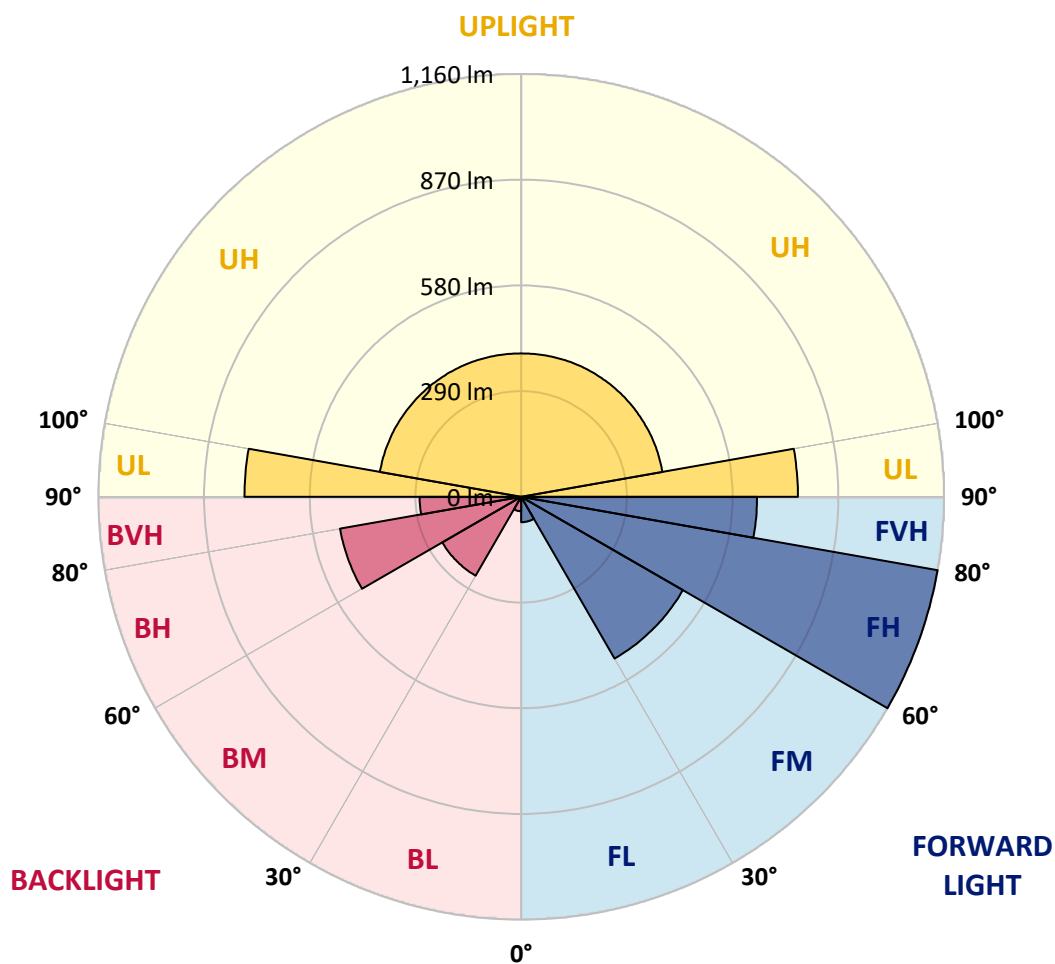
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	69.7	1.5			
FM	(30°-60°)	512.4	10.7			
FH	(60°-80°)	1160.2	24.3			G1/1800
FVH	(80°-90°)	647.3	13.5			G4/750
BL	(0°-30°)	39.5	0.8	B0/110		
BM	(30°-60°)	249.8	5.2	B1/1000		
BH	(60°-80°)	504.5	10.6	B2/1000		G2/1000
BVH	(80°-90°)	278.7	5.8			G3/500
UL	(90°-100°)	759.4	15.9		U4/1000	
UH	(100°-180°)	393.6	8.2		U3/500	

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°	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
2.5°	93.0	92.2	91.4	90.7	89.9	85.3	83.8	80.7	76.8	72.2	68.4
5°	115.3	114.5	112.9	112.9	110.6	107.6	104.5	100.7	94.5	88.4	83.0
7.5°	132.9	131.4	130.6	129.9	128.3	124.5	120.6	116.0	110.6	104.5	98.3
10°	146.0	146.0	145.2	145.2	142.9	139.1	133.7	129.1	122.9	115.3	108.3
12.5°	158.3	157.5	156.7	156.7	154.4	149.8	144.5	139.1	132.9	125.2	118.3
15°	166.7	166.7	166.7	166.0	162.9	159.0	153.7	149.1	142.1	133.7	126.8
17.5°	175.2	175.2	174.4	174.4	170.6	166.7	161.4	156.7	149.8	141.4	133.7
20°	184.4	184.4	182.9	182.1	179.0	176.0	169.8	164.4	157.5	149.8	141.4
22.5°	195.9	195.2	193.6	193.6	189.8	184.4	179.0	173.6	166.7	158.3	149.8
25°	205.2	205.2	203.6	202.8	199.8	195.2	189.0	181.3	174.4	166.0	158.3
27.5°	213.6	212.8	210.5	209.8	206.7	202.1	195.9	189.0	180.6	172.1	163.7
30°	220.5	219.0	216.7	216.7	212.8	207.5	201.3	194.4	184.4	176.7	168.3
32.5°	223.6	222.8	219.7	219.0	215.1	209.8	203.6	195.9	187.5	179.0	171.3
35°	226.7	225.9	222.8	222.1	217.4	211.3	204.4	197.5	188.2	181.3	172.9
37.5°	232.0	232.0	228.2	227.4	222.8	218.2	211.3	204.4	196.7	187.5	178.3
40°	243.6	242.8	240.5	239.0	235.1	233.6	227.4	220.5	212.8	205.9	192.1
42.5°	268.9	269.7	269.7	268.2	264.3	266.6	262.8	257.4	248.2	239.0	221.3
45°	315.0	323.5	321.2	319.6	315.0	322.7	320.4	318.1	305.0	291.2	266.6
47.5°	385.7	397.2	399.5	393.4	388.8	394.9	404.2	399.5	381.9	365.0	334.2
50°	477.9	490.2	487.1	485.6	476.4	494.1	506.3	504.0	483.3	462.5	414.9
52.5°	593.2	599.3	605.5	598.5	590.1	613.1	640.0	637.0	616.2	584.7	524.8
55°	724.6	730.7	736.9	728.4	716.1	743.0	778.3	771.4	749.9	698.4	629.3
57.5°	839.8	851.3	849.0	846.0	820.6	847.5	875.9	869.0	842.9	784.5	705.3
60°	926.6	933.6	942.8	939.7	925.9	931.2	960.4	943.5	912.0	847.5	762.2
62.5°	1005.0	1014.2	1026.5	1023.4	1012.7	1004.2	1027.3	1005.0	972.7	909.0	814.5
65°	1082.6	1093.4	1110.3	1105.7	1091.8	1072.6	1094.9	1071.9	1035.7	966.6	862.1
67.5°	1145.6	1157.1	1177.1	1174.8	1165.6	1143.3	1149.5	1121.0	1083.4	1011.2	901.3
70°	1210.2	1223.2	1237.8	1240.9	1215.5	1195.6	1200.9	1169.4	1136.4	1064.9	946.6
72.5°	1266.2	1272.4	1300.1	1306.2	1272.4	1237.8	1244.0	1207.9	1171.7	1092.6	978.1
75°	1316.2	1323.1	1344.6	1345.4	1307.0	1274.7	1276.2	1246.3	1214.0	1134.9	1007.3
77.5°	1337.7	1350.8	1373.8	1366.9	1340.8	1291.6	1297.0	1267.0	1228.6	1141.8	1011.2
78°	1336.2	1355.4	1378.4	1371.5	1344.6	1291.6	1283.2	1249.3	1214.8	1142.5	1016.5
80°	1330.8	1354.6	1369.2	1362.3	1338.5	1277.8	1267.0	1238.6	1206.3	1133.3	1001.2
82.5°	1300.1	1326.2	1341.5	1336.2	1318.5	1254.7	1249.3	1237.8	1208.6	1129.5	990.4
85°	1273.2	1299.3	1307.7	1303.9	1284.7	1224.8	1221.7	1200.9	1161.8	1088.0	956.6
87.5°	1237.1	1259.3	1263.2	1263.9	1241.7	1181.0	1176.4	1159.4	1131.0	1063.4	933.6
90°	1181.0	1200.2	1208.6	1208.6	1190.2	1134.1	1134.9	1129.5	1103.4	1031.1	901.3
92.5°	1117.2	1135.6	1144.1	1143.3	1127.2	1078.0	1078.0	1068.0	1034.2	971.2	849.8
95°	1049.6	1063.4	1075.7	1074.9	1053.4	1007.3	1005.8	1005.0	972.7	911.3	799.9
97.5°	965.1	972.7	989.6	987.3	967.4	932.8	934.3	937.4	908.2	850.6	743.0
100°	835.2	834.4	855.9	851.3	839.0	816.8	826.7	831.4	806.8	756.8	666.2
102.5°	621.6	620.8	639.3	634.7	635.4	627.0	643.1	650.8	635.4	597.0	523.2
105°	389.6	386.5	397.2	394.2	390.3	379.6	381.9	378.8	370.3	347.3	305.0
107.5°	258.2	255.9	261.2	262.8	255.9	248.2	245.9	242.8	233.6	219.7	195.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	199.8	199.8	202.8	201.3	198.2	194.4	191.3	189.8	182.9	173.6	156.0
112.5°	171.3	171.3	174.4	173.6	171.3	167.5	166.7	165.2	160.6	152.9	139.1
115°	156.0	156.0	158.3	158.3	156.0	152.1	151.4	150.6	147.5	140.6	128.3
117.5°	146.0	145.2	147.5	147.5	144.5	142.1	142.1	141.4	139.1	132.2	121.4
120°	136.8	136.8	138.3	138.3	136.0	134.5	135.2	134.5	132.2	125.2	114.5
122.5°	128.3	128.3	129.9	129.1	127.5	127.5	127.5	127.5	125.2	119.1	108.3
125°	117.6	117.6	119.1	119.1	117.6	118.3	119.1	119.1	117.6	111.4	101.4
127.5°	106.0	106.0	107.6	107.6	106.8	108.3	110.6	109.9	108.3	103.0	93.7
130°	93.0	93.0	94.5	95.3	95.3	97.6	99.1	99.1	97.6	93.0	83.8
132.5°	79.1	78.4	79.9	80.7	82.2	84.5	85.3	85.3	84.5	79.9	72.2
135°	63.8	63.8	66.1	66.8	68.4	69.9	70.7	71.5	70.7	66.8	59.9
137.5°	49.2	49.2	51.5	52.2	53.8	54.6	54.6	56.1	54.6	52.2	46.9
140°	38.4	38.4	40.0	40.7	42.3	42.3	41.5	41.5	40.7	39.2	34.6
142.5°	30.7	30.0	32.3	32.3	33.0	33.8	33.0	33.0	32.3	30.7	27.7
145°	23.1	23.1	23.8	24.6	24.6	25.4	25.4	25.4	24.6	23.8	20.7
147.5°	15.4	15.4	16.9	16.9	17.7	18.4	18.4	18.4	17.7	16.9	14.6
150°	7.7	7.7	8.5	9.2	10.0	10.0	10.8	11.5	10.8	10.0	8.5
152.5°	0.0	0.0	0.8	0.8	1.5	2.3	3.1	3.1	3.1	3.1	3.1
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.8	0.8	0.8
160°	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	0.8	0.8	0.8
162.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
165°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
170°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
172.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
175°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
177.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
2.5°	66.1	63.0	59.2	55.3	51.5	47.6	44.6	41.5	40.0	38.4	38.4
5°	79.9	76.8	71.5	66.1	60.7	56.9	53.8	51.5	49.9	49.9	50.7
7.5°	95.3	92.2	84.5	76.8	71.5	66.8	63.0	60.7	58.4	56.9	56.9
10°	105.3	100.7	93.7	86.8	80.7	74.5	69.9	66.1	62.2	59.9	59.2
12.5°	113.7	109.9	101.4	93.7	86.8	79.1	73.8	68.4	63.8	60.7	59.9
15°	121.4	116.8	108.3	99.9	91.4	83.0	76.1	69.9	65.3	61.5	61.5
17.5°	129.1	124.5	115.3	106.0	96.0	86.8	78.4	72.2	66.8	63.8	63.0
20°	136.8	131.4	122.2	112.2	100.7	90.7	81.4	74.5	69.2	66.8	66.1
22.5°	144.5	139.1	129.1	118.3	106.0	94.5	84.5	76.8	71.5	69.9	69.9
25°	152.1	146.0	135.2	123.7	110.6	99.1	88.4	79.9	74.5	73.0	73.8
27.5°	157.5	152.1	140.6	128.3	115.3	103.0	91.4	83.0	77.6	76.8	76.8
30°	162.9	156.7	144.5	132.2	119.1	106.8	95.3	86.1	81.4	80.7	81.4
32.5°	166.0	159.8	146.8	135.2	122.2	109.1	98.3	89.1	84.5	85.3	85.3
35°	167.5	161.4	149.8	137.5	124.5	112.2	101.4	93.0	89.9	89.9	89.9
37.5°	172.1	166.0	153.7	141.4	129.1	116.8	106.0	97.6	95.3	96.0	95.3
40°	183.6	177.5	163.7	149.8	136.8	123.7	112.2	103.7	102.2	103.0	102.2
42.5°	211.3	204.4	184.4	166.0	149.8	134.5	120.6	112.2	110.6	110.6	111.4
45°	252.0	242.8	220.5	192.9	172.1	151.4	133.7	122.9	120.6	119.9	119.1
47.5°	312.0	298.1	270.5	235.1	203.6	176.7	150.6	136.0	131.4	129.9	128.3
50°	390.3	375.0	334.2	288.1	252.8	209.8	173.6	152.9	144.5	139.8	138.3
52.5°	487.1	471.8	417.2	360.4	309.6	252.8	205.2	173.6	161.4	152.1	149.8
55°	584.7	568.6	507.9	430.3	374.2	297.4	239.7	198.2	180.6	166.0	164.4
57.5°	654.6	633.9	568.6	489.4	428.0	337.3	265.9	219.7	197.5	180.6	176.7
60°	702.3	680.8	617.0	530.2	469.5	368.0	287.4	238.2	215.1	196.7	193.6
62.5°	749.1	727.6	655.4	566.3	502.5	387.3	305.8	254.3	231.3	212.1	212.1
65°	792.9	769.9	691.5	603.2	534.8	405.7	322.7	270.5	248.9	230.5	234.3
67.5°	829.1	806.0	724.6	639.3	560.9	425.7	335.0	292.7	260.5	246.6	245.9
70°	871.3	844.4	759.1	670.0	593.2	451.0	347.3	310.4	277.4	262.8	250.5
72.5°	899.7	865.9	788.3	693.8	607.8	465.6	360.4	331.9	288.9	264.3	255.9
75°	930.5	899.7	816.0	713.8	633.9	478.7	368.0	341.1	294.3	265.1	255.1
77.5°	935.9	903.6	822.1	717.6	631.6	485.6	378.0	345.8	294.3	265.9	256.6
78°	945.1	911.3	826.7	723.8	633.9	481.0	375.7	348.8	295.0	265.9	255.9
80°	931.2	901.3	818.3	713.8	626.2	476.4	375.0	349.6	293.5	262.8	252.0
82.5°	915.9	889.0	802.2	702.3	616.2	469.5	369.6	337.3	286.6	253.6	243.6
85°	884.4	864.4	785.3	684.6	597.0	453.3	364.2	334.2	280.4	245.1	235.9
87.5°	860.6	842.1	762.2	673.1	586.3	440.3	353.4	325.8	273.5	237.4	228.2
90°	826.7	805.2	725.3	636.2	554.8	421.8	341.1	308.9	262.0	228.2	219.0
92.5°	781.4	763.7	687.7	600.9	524.8	394.9	319.6	291.2	243.6	215.1	205.2
95°	734.5	718.4	645.4	567.8	495.6	371.1	298.1	270.5	220.5	198.2	187.5
97.5°	680.8	666.2	597.0	520.9	451.8	340.4	268.9	243.6	194.4	173.6	166.7
100°	603.9	590.1	523.2	454.1	391.1	293.5	224.4	202.8	161.4	143.7	137.5
102.5°	465.6	454.1	396.5	341.1	287.4	213.6	159.0	146.0	122.2	106.8	102.2
105°	273.5	266.6	235.9	203.6	170.6	131.4	99.9	97.6	83.8	76.8	73.0
107.5°	177.5	172.1	154.4	136.0	116.0	92.2	73.8	69.9	62.2	59.2	57.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	145.2	140.6	126.8	111.4	96.0	76.1	63.0	58.4	52.2	49.9	49.2
112.5°	129.1	125.2	112.9	99.1	86.1	68.4	56.9	52.2	46.9	44.6	43.8
115°	119.9	115.3	103.7	91.4	79.9	63.8	53.0	48.4	43.0	40.0	40.0
117.5°	112.2	107.6	97.6	86.1	74.5	59.2	49.2	43.8	39.2	36.1	35.3
120°	106.8	102.2	92.2	80.7	69.9	55.3	46.1	40.0	34.6	31.5	30.7
122.5°	100.7	96.0	86.1	75.3	63.8	50.7	41.5	35.3	30.7	27.7	26.9
125°	94.5	89.9	79.9	69.2	57.6	45.3	36.9	30.7	26.1	23.8	23.1
127.5°	87.6	83.0	73.0	62.2	51.5	40.0	32.3	26.9	22.3	20.0	19.2
130°	78.4	73.8	64.5	54.6	44.6	34.6	27.7	22.3	19.2	16.9	16.1
132.5°	67.6	63.0	54.6	46.1	37.6	29.2	22.3	18.4	15.4	13.8	13.1
135°	56.1	52.2	45.3	37.6	30.7	23.8	18.4	15.4	12.3	10.8	10.8
137.5°	43.8	40.7	34.6	29.2	23.8	18.4	13.8	11.5	10.0	8.5	8.5
140°	33.0	30.7	26.1	22.3	17.7	13.8	10.8	9.2	7.7	6.1	6.1
142.5°	25.4	23.8	20.0	16.9	13.8	10.0	7.7	6.1	5.4	4.6	4.6
145°	19.2	17.7	14.6	12.3	10.0	6.9	5.4	3.8	3.1	3.1	2.3
147.5°	13.1	12.3	10.0	7.7	6.1	3.8	3.1	2.3	1.5	1.5	0.8
150°	6.9	6.1	4.6	3.8	2.3	1.5	1.5	0.8	0.0	0.0	0.0
152.5°	2.3	2.3	1.5	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

(END OF REPORT)