

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: P314640

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314640
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-A6-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: 5768 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U4 - G5

Input Watts (W): 64.8
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

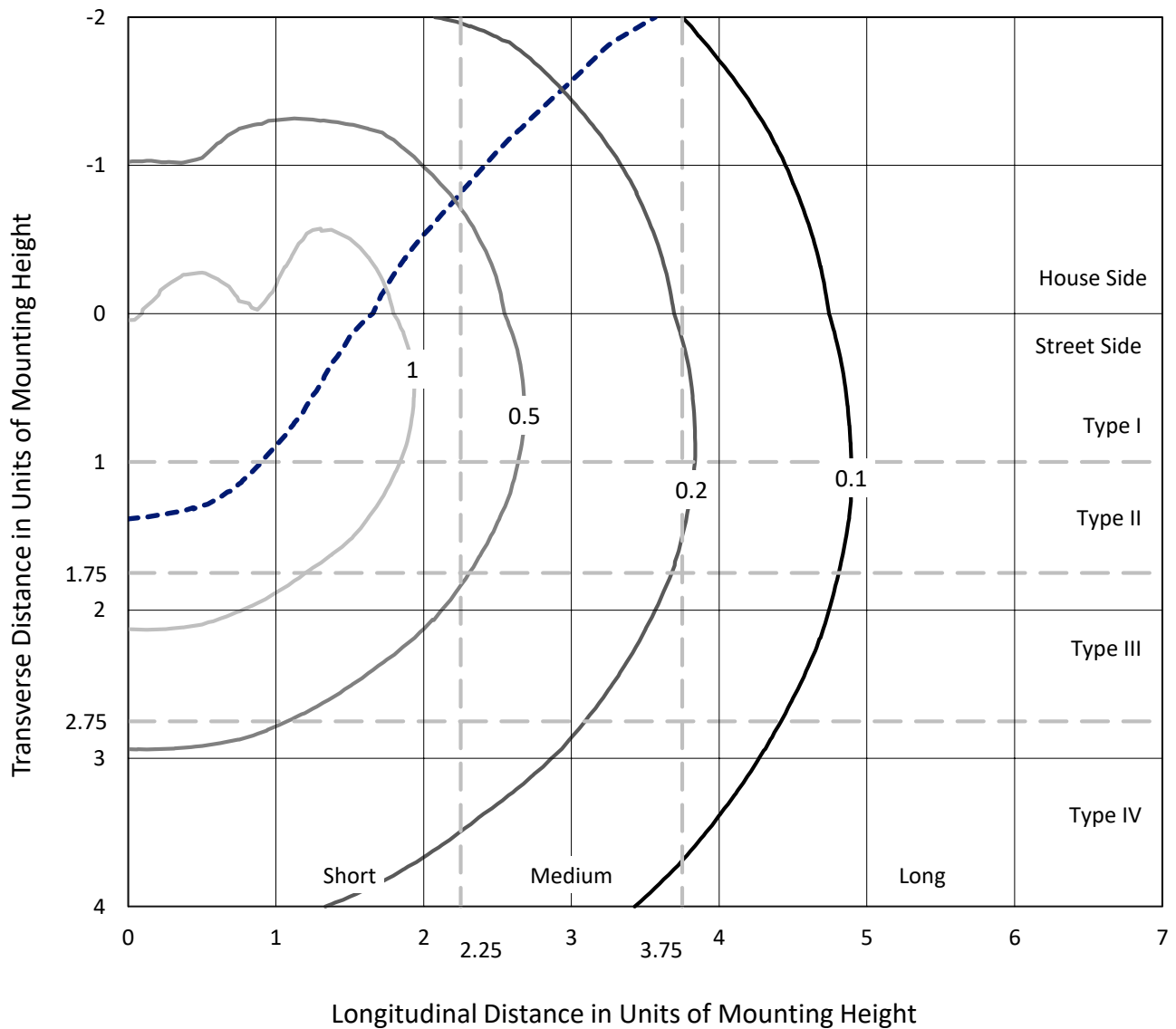


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

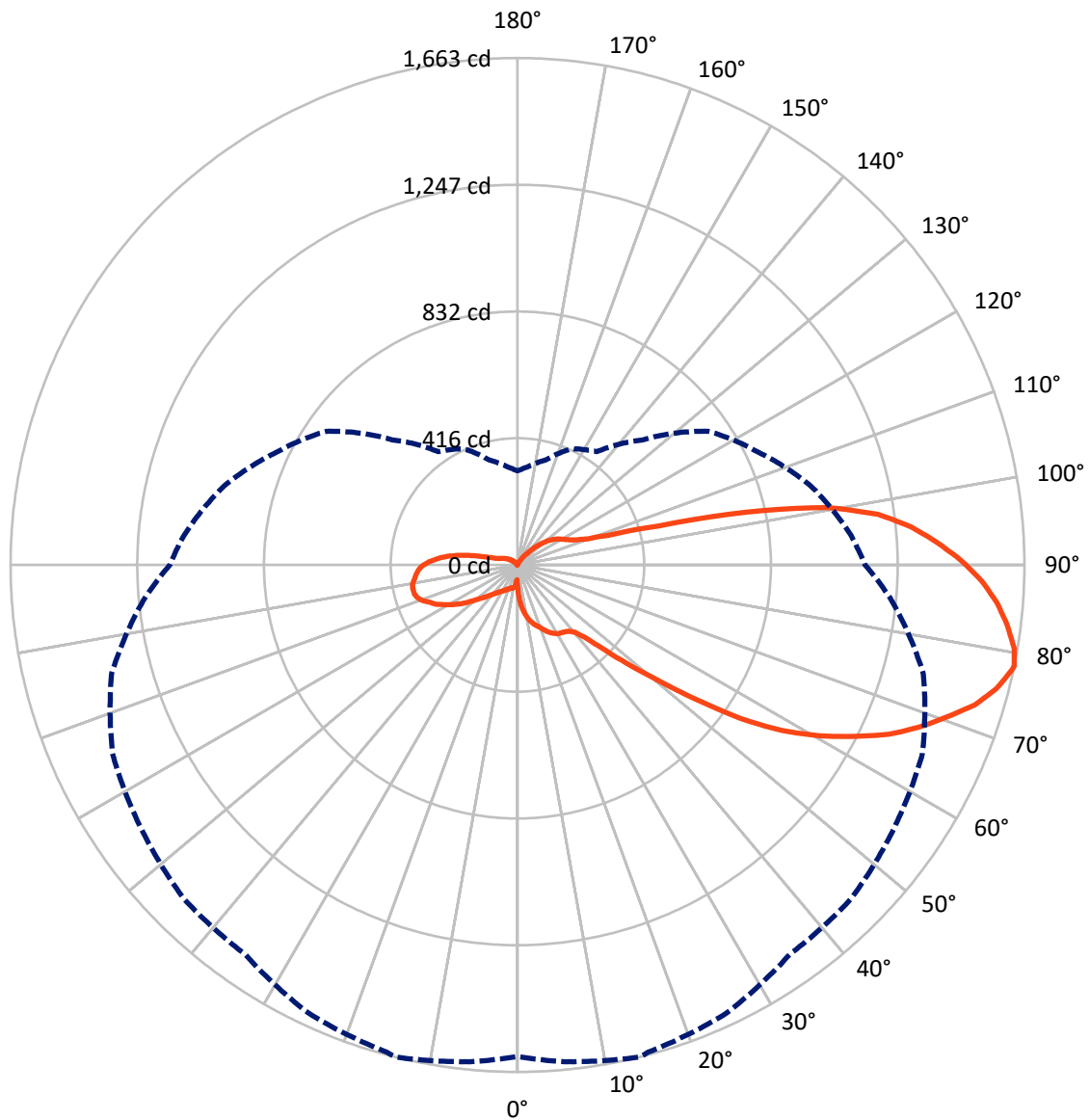


Based on 10 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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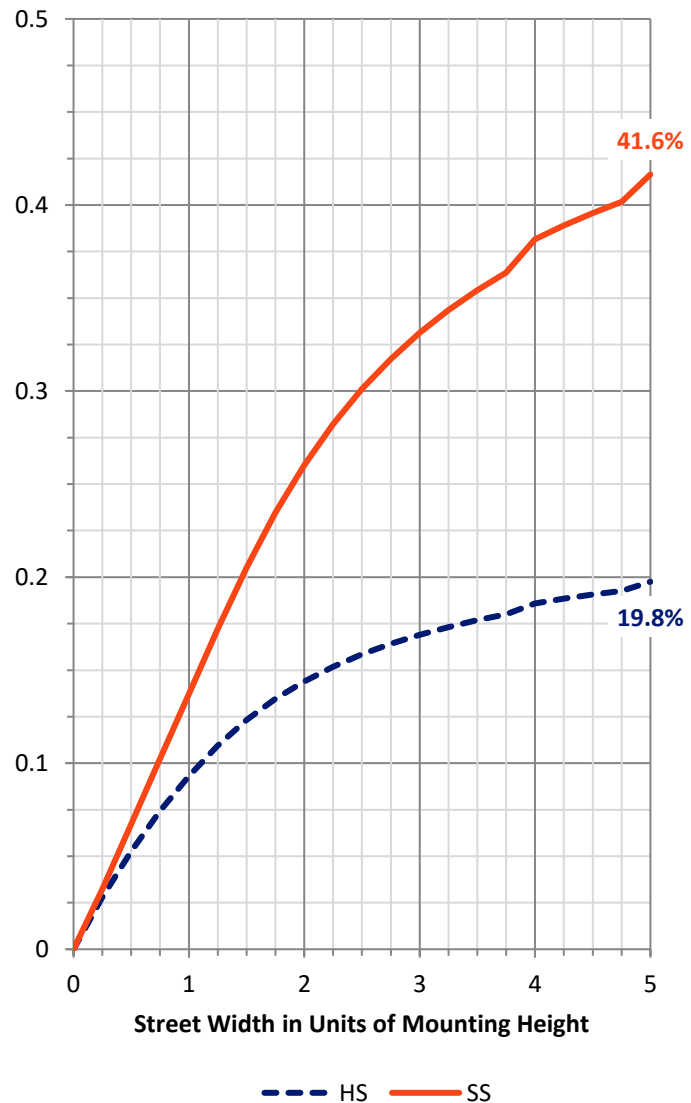
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1294.1	475.0	1769.1
	% Fixture	22.4	8.2	30.7
Street Side	Lumens	2883.5	1115.4	3998.9
	% Fixture	50.0	19.3	69.3
Total	Lumens	4177.6	1590.4	5768.0
	% 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°	80.7	1.4
30°-40°	123.3	2.1
40°-50°	233.5	4.0
50°-60°	562.9	9.8
60°-70°	892.7	15.5
70°-80°	1116.1	19.4
80°-90°	1117.3	19.4
90°-100°	916.4	15.9
100°-110°	390.5	6.8
110°-120°	134.8	2.3
120°-130°	90.0	1.6
130°-140°	44.8	0.8
140°-150°	12.9	0.2
150°-160°	0.8	0.0
160°-170°	0.1	0.0
170°-180°	0.1	0.0
0°-90°	4177.6	72.4
0°-180°	5768.0	100.0



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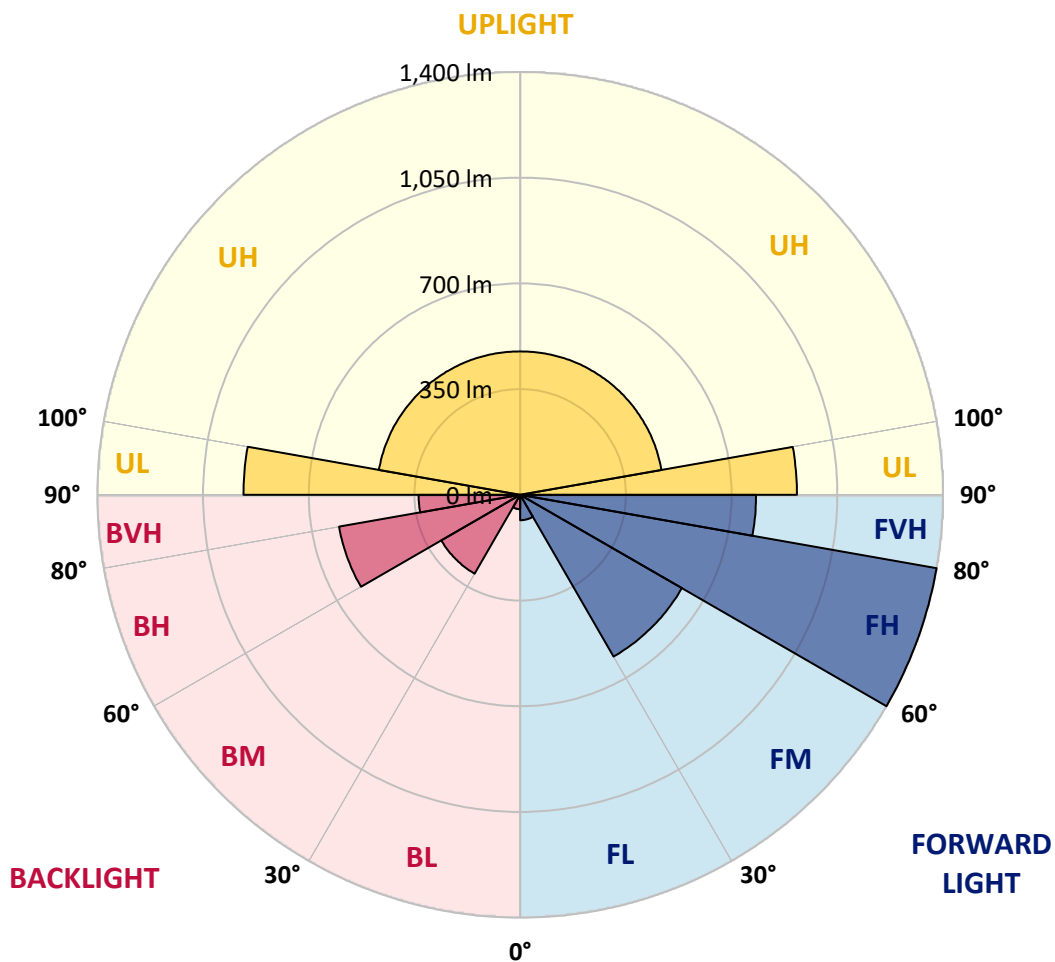
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	84.1	1.5			
FM	(30°-60°)	618.3	10.7			
FH	(60°-80°)	1400.1	24.3			G1/1800
FVH	(80°-90°)	781.1	13.5			G5
BL	(0°-30°)	47.7	0.8	B0/110		
BM	(30°-60°)	301.4	5.2	B1/1000		
BH	(60°-80°)	608.8	10.6	B2/1000		G2/1000
BVH	(80°-90°)	336.3	5.8			G3/500
UL	(90°-100°)	916.4	15.9		U4/1000	
UH	(100°-180°)	475.0	8.2		U3/500	

BUG Rating: B2-U4-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
2.5°	112.2	111.3	110.3	109.4	108.5	102.9	101.1	97.4	92.7	87.2	82.5
5°	139.1	138.1	136.3	136.3	133.5	129.8	126.1	121.5	114.0	106.6	100.1
7.5°	160.4	158.5	157.6	156.7	154.8	150.2	145.6	140.0	133.5	126.1	118.7
10°	176.2	176.2	175.2	175.2	172.5	167.8	161.3	155.8	148.3	139.1	130.7
12.5°	191.0	190.1	189.1	189.1	186.4	180.8	174.3	167.8	160.4	151.1	142.8
15°	201.2	201.2	201.2	200.3	196.6	191.9	185.4	179.9	171.5	161.3	153.0
17.5°	211.4	211.4	210.5	210.5	205.8	201.2	194.7	189.1	180.8	170.6	161.3
20°	222.5	222.5	220.7	219.7	216.0	212.3	204.9	198.4	190.1	180.8	170.6
22.5°	236.4	235.5	233.6	233.6	229.0	222.5	216.0	209.5	201.2	191.0	180.8
25°	247.6	247.6	245.7	244.8	241.1	235.5	228.1	218.8	210.5	200.3	191.0
27.5°	257.8	256.8	254.0	253.1	249.4	243.8	236.4	228.1	217.9	207.7	197.5
30°	266.1	264.2	261.5	261.5	256.8	250.3	242.9	234.6	222.5	213.2	203.1
32.5°	269.8	268.9	265.2	264.2	259.6	253.1	245.7	236.4	226.2	216.0	206.8
35°	273.5	272.6	268.9	268.0	262.4	255.0	246.6	238.3	227.2	218.8	208.6
37.5°	280.0	280.0	275.4	274.4	268.9	263.3	255.0	246.6	237.4	226.2	215.1
40°	293.9	293.0	290.2	288.3	283.7	281.9	274.4	266.1	256.8	248.5	231.8
42.5°	324.5	325.4	325.4	323.6	318.9	321.7	317.1	310.6	299.5	288.3	267.0
45°	380.1	390.3	387.6	385.7	380.1	389.4	386.6	383.8	368.1	351.4	321.7
47.5°	465.4	479.3	482.1	474.7	469.1	476.6	487.7	482.1	460.8	440.4	403.3
50°	576.7	591.5	587.8	586.0	574.8	596.2	611.0	608.2	583.2	558.2	500.7
52.5°	715.8	723.2	730.6	722.3	712.1	739.9	772.3	768.6	743.6	705.6	633.3
55°	874.3	881.7	889.2	879.0	864.1	896.6	939.2	930.9	904.9	842.8	759.4
57.5°	1013.4	1027.3	1024.5	1020.8	990.2	1022.7	1057.0	1048.6	1017.1	946.6	851.1
60°	1118.2	1126.5	1137.6	1133.9	1117.2	1123.7	1159.0	1138.6	1100.6	1022.7	919.8
62.5°	1212.7	1223.9	1238.7	1235.0	1222.0	1211.8	1239.6	1212.7	1173.8	1096.8	982.8
65°	1306.4	1319.4	1339.8	1334.2	1317.5	1294.3	1321.2	1293.4	1249.8	1166.4	1040.3
67.5°	1382.4	1396.3	1420.4	1417.6	1406.5	1379.6	1387.0	1352.7	1307.3	1220.2	1087.6
70°	1460.3	1476.1	1493.7	1497.4	1466.8	1442.7	1449.2	1411.2	1371.3	1285.1	1142.3
72.5°	1528.0	1535.4	1568.8	1576.2	1535.4	1493.7	1501.1	1457.5	1413.9	1318.4	1180.3
75°	1588.2	1596.6	1622.5	1623.5	1577.1	1538.2	1540.0	1503.9	1464.9	1369.4	1215.5
77.5°	1614.2	1630.0	1657.8	1649.4	1617.9	1558.6	1565.1	1528.9	1482.5	1377.8	1220.2
78°	1612.3	1635.5	1663.3	1655.0	1622.5	1558.6	1548.4	1507.6	1465.9	1378.7	1226.6
80°	1605.9	1634.6	1652.2	1643.9	1615.1	1541.9	1528.9	1494.6	1455.7	1367.6	1208.1
82.5°	1568.8	1600.3	1618.8	1612.3	1591.0	1514.1	1507.6	1493.7	1458.4	1362.9	1195.1
85°	1536.3	1567.8	1578.0	1573.4	1550.2	1477.9	1474.2	1449.2	1401.9	1312.9	1154.3
87.5°	1492.7	1519.6	1524.3	1525.2	1498.3	1425.1	1419.5	1399.1	1364.8	1283.2	1126.5
90°	1425.1	1448.2	1458.4	1458.4	1436.2	1368.5	1369.4	1362.9	1331.4	1244.3	1087.6
92.5°	1348.1	1370.4	1380.6	1379.6	1360.2	1300.8	1300.8	1288.8	1248.0	1171.9	1025.4
95°	1266.5	1283.2	1298.0	1297.1	1271.1	1215.5	1213.7	1212.7	1173.8	1099.6	965.2
97.5°	1164.5	1173.8	1194.2	1191.4	1167.3	1125.6	1127.4	1131.1	1095.9	1026.4	896.6
100°	1007.8	1006.9	1032.9	1027.3	1012.5	985.6	997.6	1003.2	973.5	913.3	803.9
102.5°	750.1	749.2	771.4	765.8	766.8	756.6	776.0	785.3	766.8	720.4	631.4
105°	470.1	466.4	479.3	475.6	471.0	458.0	460.8	457.1	446.9	419.1	368.1
107.5°	311.5	308.7	315.2	317.1	308.7	299.5	296.7	293.0	281.9	265.2	236.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	241.1	241.1	244.8	242.9	239.2	234.6	230.9	229.0	220.7	209.5	188.2
112.5°	206.8	206.8	210.5	209.5	206.8	202.1	201.2	199.3	193.8	184.5	167.8
115°	188.2	188.2	191.0	191.0	188.2	183.6	182.7	181.7	178.0	169.7	154.8
117.5°	176.2	175.2	178.0	178.0	174.3	171.5	171.5	170.6	167.8	159.5	146.5
120°	165.0	165.0	166.9	166.9	164.1	162.3	163.2	162.3	159.5	151.1	138.1
122.5°	154.8	154.8	156.7	155.8	153.9	153.9	153.9	153.9	151.1	143.7	130.7
125°	141.9	141.9	143.7	143.7	141.9	142.8	143.7	143.7	141.9	134.4	122.4
127.5°	127.9	127.9	129.8	129.8	128.9	130.7	133.5	132.6	130.7	124.2	113.1
130°	112.2	112.2	114.0	115.0	115.0	117.8	119.6	119.6	117.8	112.2	101.1
132.5°	95.5	94.6	96.4	97.4	99.2	102.0	102.9	102.9	102.0	96.4	87.2
135°	77.0	77.0	79.7	80.7	82.5	84.4	85.3	86.2	85.3	80.7	72.3
137.5°	59.3	59.3	62.1	63.0	64.9	65.8	65.8	67.7	65.8	63.0	56.6
140°	46.4	46.4	48.2	49.1	51.0	51.0	50.1	50.1	49.1	47.3	41.7
142.5°	37.1	36.2	38.9	38.9	39.9	40.8	39.9	39.9	38.9	37.1	33.4
145°	27.8	27.8	28.7	29.7	29.7	30.6	30.6	30.6	29.7	28.7	25.0
147.5°	18.5	18.5	20.4	20.4	21.3	22.3	22.3	22.3	21.3	20.4	17.6
150°	9.3	9.3	10.2	11.1	12.1	12.1	13.0	13.9	13.0	12.1	10.2
152.5°	0.0	0.0	0.9	0.9	1.9	2.8	3.7	3.7	3.7	3.7	3.7
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.9	0.9	0.9
160°	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.9	0.9	0.9	0.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9
165°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9
170°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9
172.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9
175°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9
177.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9
180°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
2.5°	79.7	76.0	71.4	66.8	62.1	57.5	53.8	50.1	48.2	46.4	46.4
5°	96.4	92.7	86.2	79.7	73.2	68.6	64.9	62.1	60.3	60.3	61.2
7.5°	115.0	111.3	102.0	92.7	86.2	80.7	76.0	73.2	70.5	68.6	68.6
10°	127.0	121.5	113.1	104.8	97.4	89.9	84.4	79.7	75.1	72.3	71.4
12.5°	137.2	132.6	122.4	113.1	104.8	95.5	89.0	82.5	77.0	73.2	72.3
15°	146.5	140.9	130.7	120.5	110.3	100.1	91.8	84.4	78.8	74.2	74.2
17.5°	155.8	150.2	139.1	127.9	115.9	104.8	94.6	87.2	80.7	77.0	76.0
20°	165.0	158.5	147.4	135.4	121.5	109.4	98.3	89.9	83.4	80.7	79.7
22.5°	174.3	167.8	155.8	142.8	127.9	114.0	102.0	92.7	86.2	84.4	84.4
25°	183.6	176.2	163.2	149.3	133.5	119.6	106.6	96.4	89.9	88.1	89.0
27.5°	190.1	183.6	169.7	154.8	139.1	124.2	110.3	100.1	93.6	92.7	92.7
30°	196.6	189.1	174.3	159.5	143.7	128.9	115.0	103.8	98.3	97.4	98.3
32.5°	200.3	192.9	177.1	163.2	147.4	131.7	118.7	107.6	102.0	102.9	102.9
35°	202.1	194.7	180.8	166.0	150.2	135.4	122.4	112.2	108.5	108.5	108.5
37.5°	207.7	200.3	185.4	170.6	155.8	140.9	127.9	117.8	115.0	115.9	115.0
40°	221.6	214.2	197.5	180.8	165.0	149.3	135.4	125.2	123.3	124.2	123.3
42.5°	255.0	246.6	222.5	200.3	180.8	162.3	145.6	135.4	133.5	133.5	134.4
45°	304.1	293.0	266.1	232.7	207.7	182.7	161.3	148.3	145.6	144.6	143.7
47.5°	376.4	359.7	326.4	283.7	245.7	213.2	181.7	164.1	158.5	156.7	154.8
50°	471.0	452.5	403.3	347.7	305.0	253.1	209.5	184.5	174.3	168.7	166.9
52.5°	587.8	569.3	503.5	434.8	373.6	305.0	247.6	209.5	194.7	183.6	180.8
55°	705.6	686.1	612.9	519.2	451.5	358.8	289.3	239.2	217.9	200.3	198.4
57.5°	789.9	764.9	686.1	590.6	516.4	407.0	320.8	265.2	238.3	217.9	213.2
60°	847.4	821.5	744.5	639.7	566.5	444.1	346.8	287.4	259.6	237.4	233.6
62.5°	904.0	878.0	790.9	683.3	606.4	467.3	369.0	306.9	279.1	255.9	255.9
65°	956.8	929.0	834.5	727.8	645.3	489.5	389.4	326.4	300.4	278.2	282.8
67.5°	1000.4	972.6	874.3	771.4	676.8	513.7	404.2	353.3	314.3	297.6	296.7
70°	1051.4	1019.0	916.0	808.5	715.8	544.2	419.1	374.6	334.7	317.1	302.3
72.5°	1085.7	1044.9	951.3	837.2	733.4	561.9	434.8	400.5	348.6	318.9	308.7
75°	1122.8	1085.7	984.7	861.3	764.9	577.6	444.1	411.7	355.1	319.9	307.8
77.5°	1129.3	1090.4	992.1	866.0	762.1	586.0	456.2	417.2	355.1	320.8	309.7
78°	1140.4	1099.6	997.6	873.4	764.9	580.4	453.4	420.9	356.0	320.8	308.7
80°	1123.7	1087.6	987.4	861.3	755.6	574.8	452.5	421.9	354.2	317.1	304.1
82.5°	1105.2	1072.7	968.0	847.4	743.6	566.5	446.0	407.0	345.8	306.0	293.9
85°	1067.2	1043.1	947.6	826.1	720.4	547.0	439.5	403.3	338.4	295.8	284.6
87.5°	1038.4	1016.2	919.8	812.2	707.4	531.3	426.5	393.1	330.1	286.5	275.4
90°	997.6	971.7	875.2	767.7	669.4	509.0	411.7	372.7	316.2	275.4	264.2
92.5°	942.9	921.6	829.8	725.0	633.3	476.6	385.7	351.4	293.9	259.6	247.6
95°	886.4	866.9	778.8	685.2	598.0	447.8	359.7	326.4	266.1	239.2	226.2
97.5°	821.5	803.9	720.4	628.6	545.2	410.7	324.5	293.9	234.6	209.5	201.2
100°	728.8	712.1	631.4	548.0	471.9	354.2	270.7	244.8	194.7	173.4	166.0
102.5°	561.9	548.0	478.4	411.7	346.8	257.8	191.9	176.2	147.4	128.9	123.3
105°	330.1	321.7	284.6	245.7	205.8	158.5	120.5	117.8	101.1	92.7	88.1
107.5°	214.2	207.7	186.4	164.1	140.0	111.3	89.0	84.4	75.1	71.4	69.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	175.2	169.7	153.0	134.4	115.9	91.8	76.0	70.5	63.0	60.3	59.3
112.5°	155.8	151.1	136.3	119.6	103.8	82.5	68.6	63.0	56.6	53.8	52.8
115°	144.6	139.1	125.2	110.3	96.4	77.0	64.0	58.4	51.9	48.2	48.2
117.5°	135.4	129.8	117.8	103.8	89.9	71.4	59.3	52.8	47.3	43.6	42.6
120°	128.9	123.3	111.3	97.4	84.4	66.8	55.6	48.2	41.7	38.0	37.1
122.5°	121.5	115.9	103.8	90.9	77.0	61.2	50.1	42.6	37.1	33.4	32.5
125°	114.0	108.5	96.4	83.4	69.5	54.7	44.5	37.1	31.5	28.7	27.8
127.5°	105.7	100.1	88.1	75.1	62.1	48.2	38.9	32.5	26.9	24.1	23.2
130°	94.6	89.0	77.9	65.8	53.8	41.7	33.4	26.9	23.2	20.4	19.5
132.5°	81.6	76.0	65.8	55.6	45.4	35.2	26.9	22.3	18.5	16.7	15.8
135°	67.7	63.0	54.7	45.4	37.1	28.7	22.3	18.5	14.8	13.0	13.0
137.5°	52.8	49.1	41.7	35.2	28.7	22.3	16.7	13.9	12.1	10.2	10.2
140°	39.9	37.1	31.5	26.9	21.3	16.7	13.0	11.1	9.3	7.4	7.4
142.5°	30.6	28.7	24.1	20.4	16.7	12.1	9.3	7.4	6.5	5.6	5.6
145°	23.2	21.3	17.6	14.8	12.1	8.3	6.5	4.6	3.7	3.7	2.8
147.5°	15.8	14.8	12.1	9.3	7.4	4.6	3.7	2.8	1.9	1.9	0.9
150°	8.3	7.4	5.6	4.6	2.8	1.9	1.9	0.9	0.0	0.0	0.0
152.5°	2.8	2.8	1.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9

(END OF REPORT)