

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: P314567

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPN-A5-D-U-ASYM-7030
Description: NEW HAVEN 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: 4579 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - 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

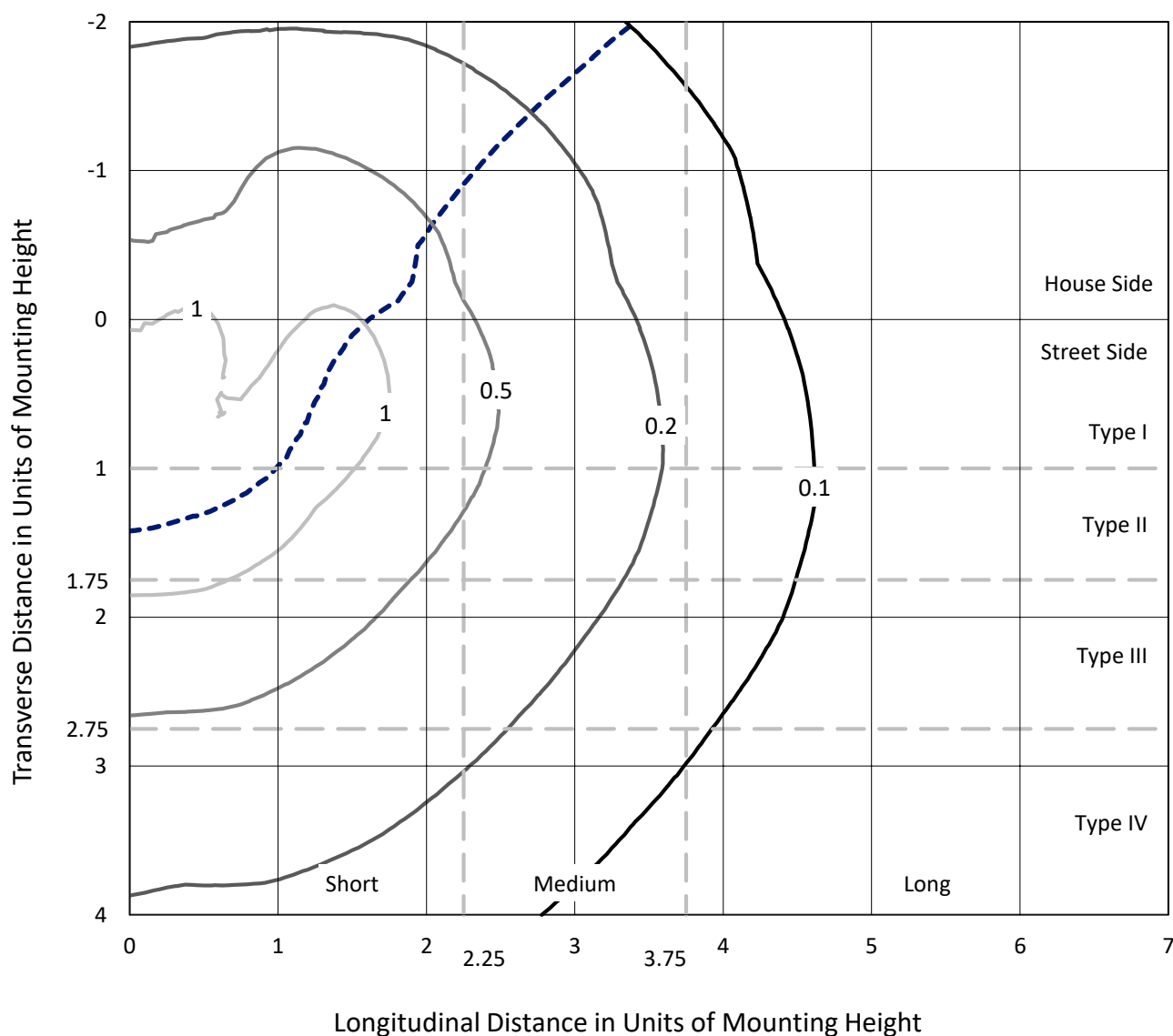


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

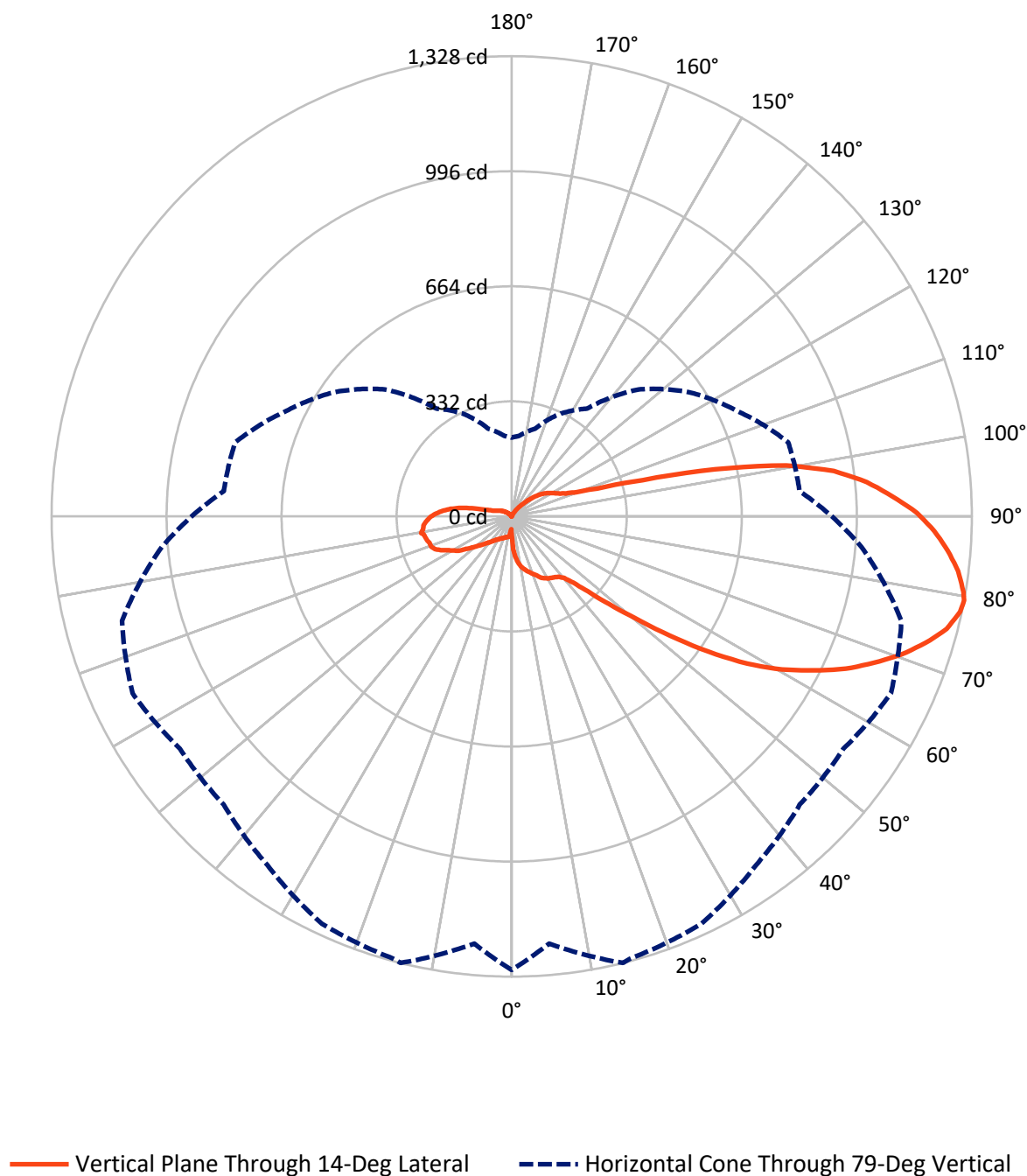


Based on 10 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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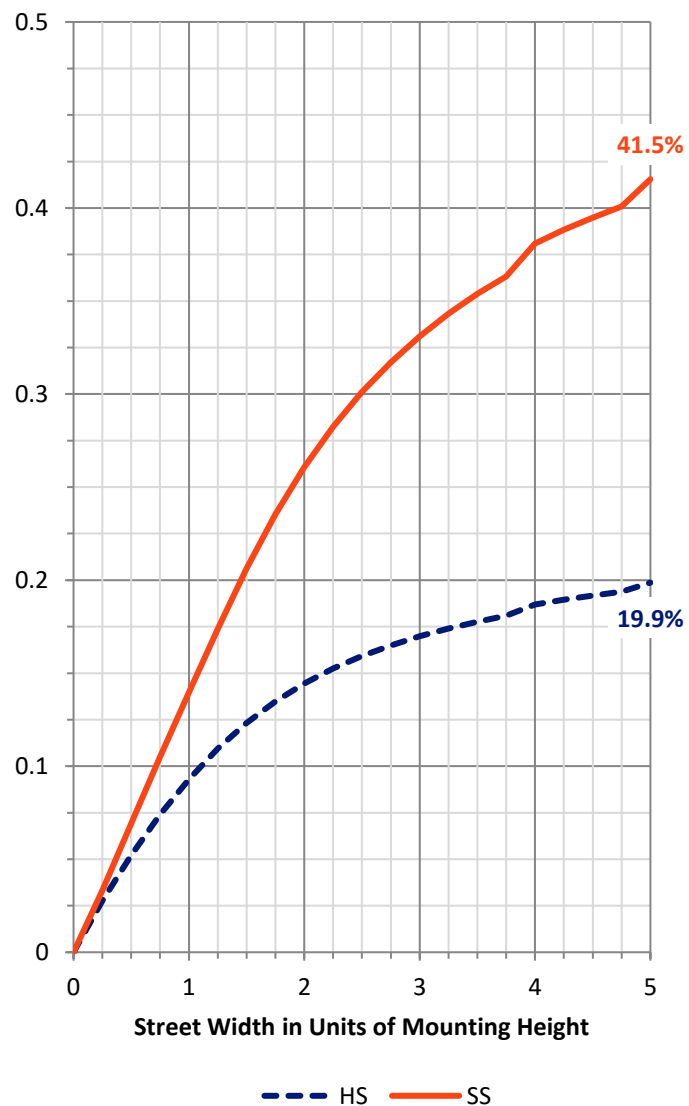
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1035.9	383.5	1419.3
	% Fixture	22.6	8.4	31.0
Street Side	Lumens	2281.4	878.3	3159.7
	% Fixture	49.8	19.2	69.0
Total	Lumens	3317.2	1261.8	4579.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	0.2
10°-20°	32.8	0.7
20°-30°	64.2	1.4
30°-40°	97.8	2.1
40°-50°	183.6	4.0
50°-60°	441.7	9.6
60°-70°	707.2	15.4
70°-80°	887.9	19.4
80°-90°	893.6	19.5
90°-100°	729.4	15.9
100°-110°	308.6	6.7
110°-120°	106.7	2.3
120°-130°	71.1	1.6
130°-140°	35.2	0.8
140°-150°	10.1	0.2
150°-160°	0.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	3317.2	72.4
0°-180°	4579.0	100.0

Coefficient of Utilization



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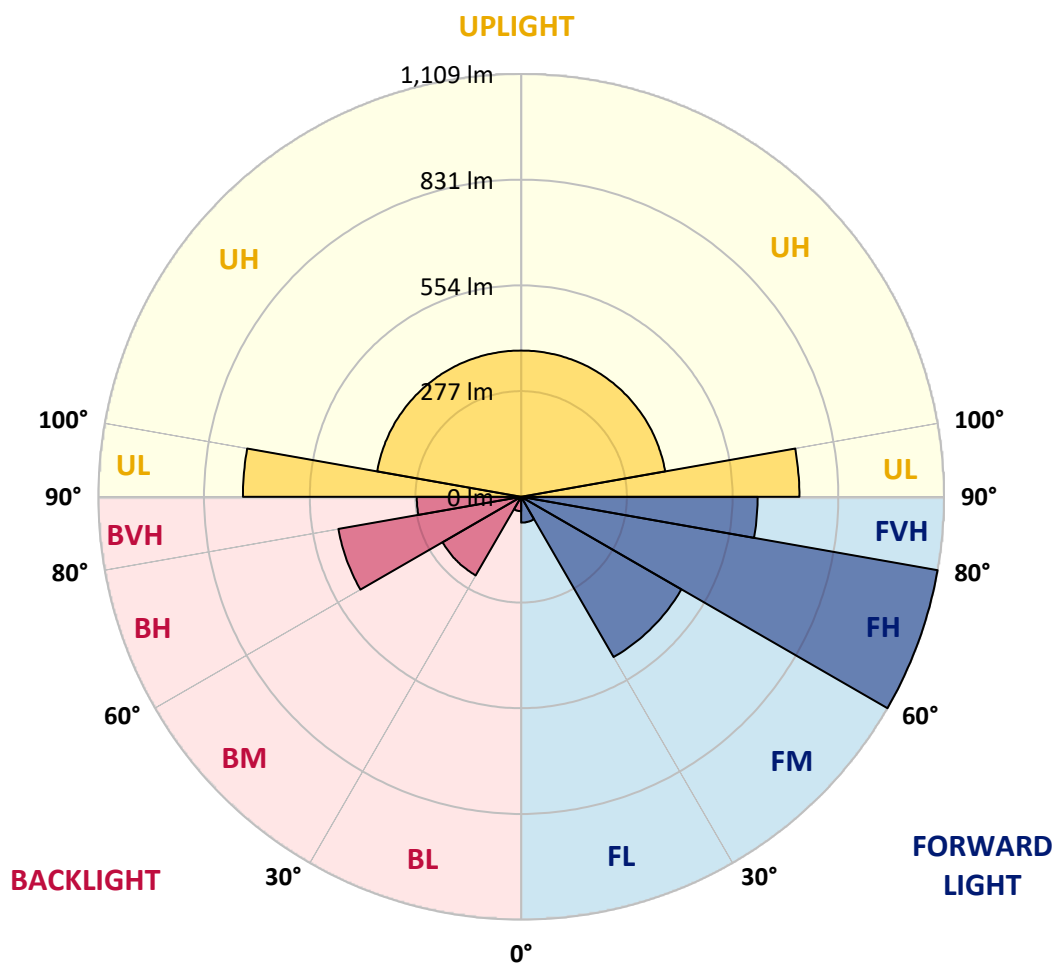
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	67.8	1.5			
FM	(30°-60°)	485.0	10.6			
FH	(60°-80°)	1108.6	24.2			G1/1800
FVH	(80°-90°)	620.0	13.5			G4/750
BL	(0°-30°)	37.7	0.8	B0/110		
BM	(30°-60°)	238.1	5.2	B1/1000		
BH	(60°-80°)	486.5	10.6	B1/500		G1/500
BVH	(80°-90°)	273.6	6.0			G3/500
UL	(90°-100°)	729.4	15.9		U4/1000	
UH	(100°-180°)	383.5	8.4		U3/500	

BUG Rating: B1-U4-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
2.5°	99.9	96.8	96.8	96.8	94.5	90.7	86.8	84.5	79.1	74.5	67.6
5°	121.4	119.9	118.3	118.3	116.0	115.3	111.4	105.3	99.1	93.0	85.3
7.5°	137.5	136.0	134.5	135.2	132.2	129.1	125.2	119.9	113.7	107.6	99.9
10°	148.3	147.5	146.8	146.8	142.9	139.1	134.5	129.9	122.9	116.0	107.6
12.5°	156.0	155.2	155.2	155.2	151.4	146.0	142.2	136.8	130.6	122.9	114.5
15°	163.7	163.7	162.9	162.1	158.3	153.7	149.8	145.2	139.1	130.6	122.2
17.5°	171.4	170.6	169.8	169.8	166.0	161.4	157.5	153.7	146.0	137.5	129.1
20°	180.6	179.0	177.5	177.5	173.7	168.3	165.2	161.4	153.7	145.2	136.0
22.5°	189.8	188.3	185.2	185.2	182.1	176.0	174.4	169.8	162.1	152.9	143.7
25°	199.8	199.0	195.9	195.2	191.3	183.6	182.1	178.3	169.8	160.6	151.4
27.5°	207.5	206.7	202.1	202.1	199.0	192.1	188.3	183.6	175.2	165.2	157.5
30°	212.8	212.1	207.5	206.7	202.9	198.2	193.6	186.7	178.3	168.3	161.4
32.5°	215.2	215.2	211.3	210.5	205.9	202.1	197.5	190.6	179.8	170.6	162.9
35°	219.8	219.0	215.2	214.4	209.0	205.9	199.8	191.3	181.3	172.1	164.4
37.5°	224.4	224.4	221.3	220.5	214.4	211.3	205.2	197.5	186.7	177.5	169.0
40°	235.1	235.9	233.6	232.8	226.7	225.1	219.8	214.4	206.7	197.5	182.9
42.5°	259.7	260.5	261.3	259.7	255.1	252.8	248.2	247.4	240.5	229.0	215.2
45°	302.0	306.6	308.9	306.6	300.4	299.7	295.8	297.4	292.0	280.5	262.8
47.5°	366.5	369.6	378.1	378.1	369.6	367.3	364.2	365.0	365.0	351.9	325.0
50°	448.0	454.1	460.3	464.9	461.0	454.9	451.0	458.7	464.9	446.4	410.3
52.5°	547.1	553.2	571.7	570.1	565.5	562.5	564.8	579.4	593.2	577.1	519.4
55°	663.1	671.6	688.5	692.3	683.1	679.3	677.0	698.5	721.5	704.6	627.0
57.5°	779.2	787.6	802.2	808.4	796.1	783.8	761.5	785.3	813.7	792.2	698.5
60°	876.0	880.6	896.7	903.6	890.6	872.9	832.2	856.0	887.5	864.4	759.2
62.5°	963.6	965.1	978.2	984.3	968.9	950.5	902.1	922.8	949.0	926.7	812.2
65°	1032.7	1032.0	1059.6	1061.9	1038.1	1012.7	966.6	985.9	1006.6	982.8	856.0
67.5°	1102.6	1094.2	1127.2	1129.5	1105.7	1072.7	1025.8	1035.8	1048.9	1031.2	904.4
70°	1160.3	1149.5	1193.3	1197.2	1161.8	1118.0	1080.4	1086.5	1105.7	1078.1	944.4
72.5°	1220.2	1194.1	1248.6	1250.9	1218.7	1161.0	1123.4	1121.9	1144.1	1113.4	974.3
75°	1268.6	1217.9	1296.3	1293.2	1263.2	1198.7	1157.2	1154.1	1183.3	1146.4	996.6
77.5°	1313.2	1240.2	1323.2	1320.1	1292.4	1221.7	1175.6	1172.6	1204.1	1164.9	1016.6
79°	1308.6	1237.1	1327.8	1320.9	1296.3	1228.7	1175.6	1168.7	1207.2	1164.1	1013.5
80°	1309.3	1227.9	1321.6	1315.5	1288.6	1221.7	1163.4	1152.6	1187.2	1144.9	998.9
82.5°	1278.6	1206.4	1297.8	1288.6	1267.9	1206.4	1148.0	1139.5	1185.6	1138.8	992.8
85°	1246.3	1173.3	1262.5	1256.3	1237.1	1176.4	1116.5	1095.7	1136.5	1090.4	958.2
87.5°	1195.6	1131.8	1220.2	1215.6	1197.2	1143.4	1080.4	1065.8	1108.8	1067.3	934.4
90°	1151.8	1088.8	1169.5	1164.9	1148.0	1095.7	1038.1	1035.8	1079.6	1038.1	904.4
92.5°	1085.0	1025.8	1100.3	1095.0	1082.7	1038.1	985.1	978.2	1014.3	968.2	846.8
95°	1018.1	961.3	1029.7	1027.3	1011.2	972.8	922.1	909.0	945.1	911.3	797.6
97.5°	929.8	876.0	939.0	938.2	926.7	890.6	847.5	842.2	879.8	845.2	743.0
100°	793.0	746.1	806.0	799.1	800.7	771.5	736.1	746.9	784.5	759.9	667.7
102.5°	589.4	566.3	602.4	605.5	607.8	587.8	574.8	573.2	609.3	587.1	513.3
105°	384.2	373.4	391.9	395.0	390.3	375.7	340.4	343.5	347.3	328.9	285.8
107.5°	256.6	252.0	259.7	261.3	257.4	245.1	224.4	222.1	223.6	213.6	187.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	196.7	194.4	199.0	199.8	196.7	185.2	173.7	172.9	174.4	167.5	149.8
112.5°	168.3	166.7	169.0	169.0	166.7	158.3	151.4	151.4	153.7	148.3	133.7
115°	153.7	152.1	152.9	153.7	150.6	142.9	137.5	139.1	141.4	136.8	123.7
117.5°	142.9	142.2	142.2	142.2	139.8	132.9	129.9	130.6	132.9	128.3	116.8
120°	133.7	133.7	132.9	132.9	130.6	125.2	122.9	124.5	126.0	122.2	111.4
122.5°	124.5	124.5	123.7	123.7	122.2	117.6	116.0	118.3	119.9	115.3	106.0
125°	114.5	114.5	113.0	113.0	111.4	109.1	108.3	110.6	112.2	108.3	99.1
127.5°	103.7	103.7	101.4	102.2	99.9	99.1	99.1	102.2	103.7	100.7	92.2
130°	92.2	91.4	88.4	89.1	87.6	87.6	89.1	91.4	93.0	89.9	83.0
132.5°	78.4	78.4	74.5	75.3	74.5	75.3	76.8	79.1	79.9	78.4	72.2
135°	64.5	64.5	61.5	62.2	61.5	61.5	63.8	65.3	66.9	65.3	59.9
137.5°	51.5	51.5	48.4	49.2	48.4	47.6	49.2	49.9	50.7	49.2	46.9
140°	40.0	40.0	38.4	38.4	36.9	36.1	36.9	37.7	37.7	36.9	35.3
142.5°	31.5	32.3	30.7	30.7	28.4	28.4	28.4	29.2	29.2	29.2	27.7
145°	23.8	24.6	23.1	23.1	21.5	21.5	21.5	22.3	22.3	22.3	20.7
147.5°	16.9	16.9	16.1	16.1	14.6	15.4	15.4	16.1	16.1	15.4	14.6
150°	8.5	8.5	8.5	8.5	8.5	8.5	9.2	9.2	9.2	9.2	8.5
152.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
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	0.8	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.0	0.0
165°	0.0	0.0	0.0	0.8	0.0	0.8	0.8	0.8	0.8	0.0	0.0
167.5°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
170°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
172.5°	0.8	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
175°	0.8	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
177.5°	0.8	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
2.5°	65.3	62.2	57.6	53.0	47.6	43.8	40.0	38.4	36.9	35.3	35.3
5°	80.7	76.8	70.7	63.8	59.9	54.6	51.5	48.4	46.9	46.9	46.9
7.5°	96.8	93.0	84.5	75.3	70.7	64.5	62.2	59.2	56.9	54.6	53.8
10°	103.7	99.9	92.2	84.5	78.4	72.2	66.9	63.8	59.9	57.6	57.6
12.5°	110.6	106.0	98.4	90.7	83.0	75.3	69.9	65.3	61.5	58.4	57.6
15°	117.6	113.0	104.5	96.0	86.8	78.4	72.2	66.9	62.2	59.2	58.4
17.5°	124.5	119.9	110.6	101.4	91.4	82.2	75.3	68.4	63.8	60.7	59.9
20°	131.4	126.0	116.8	106.8	96.0	86.8	77.6	70.7	66.1	63.0	62.2
22.5°	139.1	132.9	122.9	112.2	100.7	91.4	80.7	73.0	67.6	65.3	65.3
25°	146.8	139.1	129.1	116.8	106.0	96.0	83.8	75.3	69.9	68.4	69.2
27.5°	152.1	143.7	133.7	121.4	109.9	99.9	87.6	77.6	72.2	72.2	72.2
30°	155.2	148.3	137.5	125.2	114.5	103.7	90.7	80.7	75.3	75.3	75.3
32.5°	156.8	149.8	139.1	127.6	117.6	107.6	93.7	83.8	78.4	79.1	79.1
35°	158.3	152.1	141.4	129.9	120.6	109.9	97.6	87.6	83.0	83.8	83.0
37.5°	162.1	155.2	144.5	132.9	124.5	113.7	102.2	92.2	88.4	89.1	88.4
40°	174.4	166.0	154.4	140.6	132.2	119.9	108.3	97.6	95.3	95.3	94.5
42.5°	199.8	188.3	174.4	157.5	145.2	129.9	116.8	105.3	102.2	101.4	100.7
45°	242.8	224.4	209.8	185.2	166.0	146.0	129.1	114.5	110.6	109.1	108.3
47.5°	298.1	276.6	257.4	230.5	200.6	169.8	147.5	127.6	121.4	118.3	116.8
50°	378.8	342.7	317.3	284.3	245.9	202.9	170.6	144.5	133.7	126.8	125.2
52.5°	475.6	428.0	401.1	354.2	301.2	243.6	199.8	162.1	146.8	137.5	136.8
55°	575.5	515.6	484.1	431.1	359.6	292.0	233.6	184.4	162.9	150.6	149.1
57.5°	642.4	577.1	546.3	490.2	408.8	336.6	265.1	205.2	184.4	165.2	163.7
60°	693.1	623.2	594.7	527.1	442.6	371.1	287.4	225.1	195.9	177.5	174.4
62.5°	736.9	661.6	639.3	558.6	473.3	395.7	305.8	242.8	209.0	192.9	187.5
65°	780.7	703.9	677.0	594.0	497.9	420.3	323.5	263.6	229.0	205.9	205.9
67.5°	822.2	743.8	715.4	627.8	528.7	444.1	335.8	280.5	242.8	219.8	219.8
70°	859.8	773.0	750.7	658.5	558.6	463.3	335.0	296.6	250.5	229.8	220.5
72.5°	891.3	799.9	778.4	685.4	582.4	484.1	343.5	312.7	250.5	232.8	227.4
75°	908.2	819.1	805.3	701.5	608.6	501.0	357.3	314.3	256.6	232.1	228.2
77.5°	928.2	836.0	822.2	715.4	620.1	514.1	371.9	325.0	259.7	233.6	226.7
79°	923.6	833.7	826.0	718.5	624.7	517.9	379.6	325.8	262.0	232.8	227.4
80°	912.9	827.6	815.3	706.2	619.3	511.8	379.6	325.8	269.7	231.3	225.1
82.5°	903.6	819.9	809.1	702.3	610.1	501.0	380.4	325.0	261.3	226.7	221.3
85°	876.0	797.6	781.5	680.0	596.3	488.7	375.0	321.2	259.7	215.9	212.8
87.5°	849.1	773.0	761.5	660.8	577.1	473.3	368.1	312.0	249.7	208.2	205.9
90°	822.2	746.9	733.0	637.8	553.2	448.7	349.6	298.9	239.7	194.4	195.2
92.5°	770.7	703.1	688.5	600.1	518.7	421.8	328.1	278.9	223.6	184.4	180.6
95°	723.8	660.1	645.5	564.8	484.9	395.0	301.2	257.4	204.4	169.0	166.7
97.5°	677.0	613.9	598.6	524.0	445.7	361.9	271.2	231.3	180.6	150.6	146.0
100°	604.0	547.1	527.1	457.2	378.8	310.4	226.7	193.6	150.6	125.2	119.9
102.5°	457.2	411.1	390.3	341.2	268.9	222.1	164.4	142.9	110.6	94.5	91.4
105°	255.1	232.1	222.8	194.4	162.1	134.5	103.0	95.3	76.1	67.6	66.9
107.5°	170.6	156.8	149.8	136.0	113.7	95.3	74.5	69.9	57.6	51.5	50.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	138.3	128.3	122.2	110.6	93.7	78.4	62.2	58.4	48.4	43.8	43.0
112.5°	124.5	114.5	109.1	98.4	83.0	69.2	55.3	51.5	43.0	39.2	38.4
115°	115.3	106.8	100.7	90.7	76.1	63.0	50.7	46.9	40.0	35.3	34.6
117.5°	109.1	100.7	94.5	84.5	71.5	58.4	47.6	43.0	36.1	31.5	31.5
120°	103.7	96.0	89.9	79.9	66.9	54.6	43.8	38.4	32.3	27.7	27.7
122.5°	99.1	91.4	85.3	74.5	61.5	49.2	40.0	33.8	28.4	23.8	23.8
125°	93.7	86.8	79.9	69.2	56.1	44.6	35.3	29.2	23.8	20.0	20.0
127.5°	86.8	80.7	73.0	62.2	50.7	39.2	31.5	25.4	20.0	16.9	16.9
130°	79.1	72.2	64.5	54.6	43.8	33.8	26.1	21.5	16.9	14.6	13.8
132.5°	68.4	63.0	55.3	46.9	36.9	28.4	21.5	17.7	13.8	11.5	11.5
135°	57.6	52.3	46.1	37.7	30.0	22.3	16.9	13.8	11.5	9.2	9.2
137.5°	44.6	40.7	36.1	29.2	22.3	16.9	13.1	10.8	8.5	6.9	6.9
140°	33.8	31.5	27.7	21.5	16.9	13.1	10.0	8.5	6.9	5.4	4.6
142.5°	26.1	24.6	21.5	16.9	13.1	10.0	7.7	6.1	4.6	3.8	3.1
145°	20.0	18.4	16.1	12.3	9.2	6.9	5.4	3.8	3.1	2.3	1.5
147.5°	14.6	13.1	10.8	8.5	6.1	3.8	3.1	2.3	1.5	0.8	0.8
150°	7.7	6.9	6.1	4.6	3.1	1.5	0.8	0.8	0.0	0.0	0.0
152.5°	1.5	1.5	1.5	1.5	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	0.8	0.8	0.8	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	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	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)