

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: P314573

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314573
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
Description: NEW HAVEN POST TOP LUMINAIRE
(1) 70 CRI, 4000K LIGHT ENGINE. ASYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4696 lumens
Efficiency: N/A
Efficacy: 91.7 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

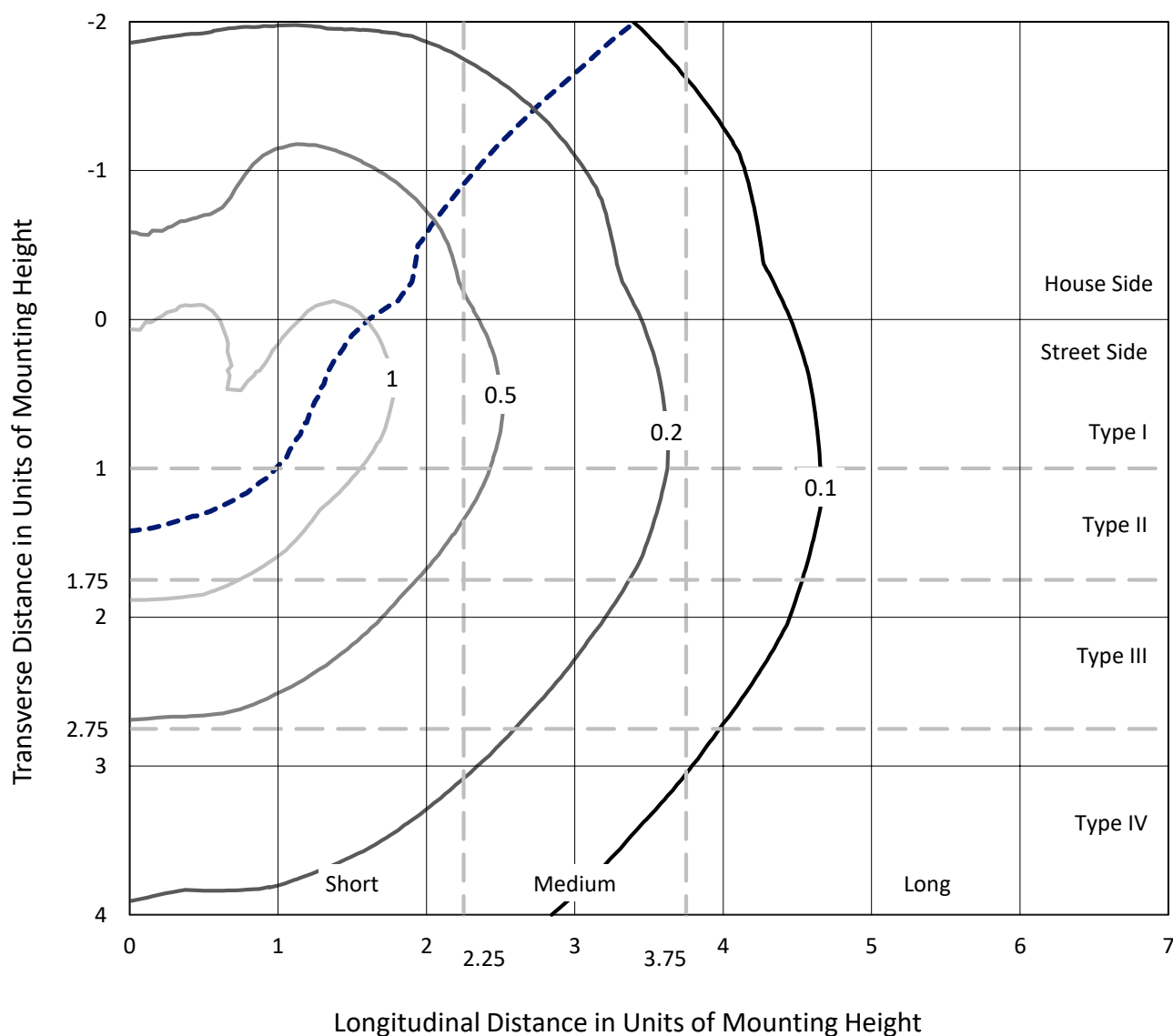


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

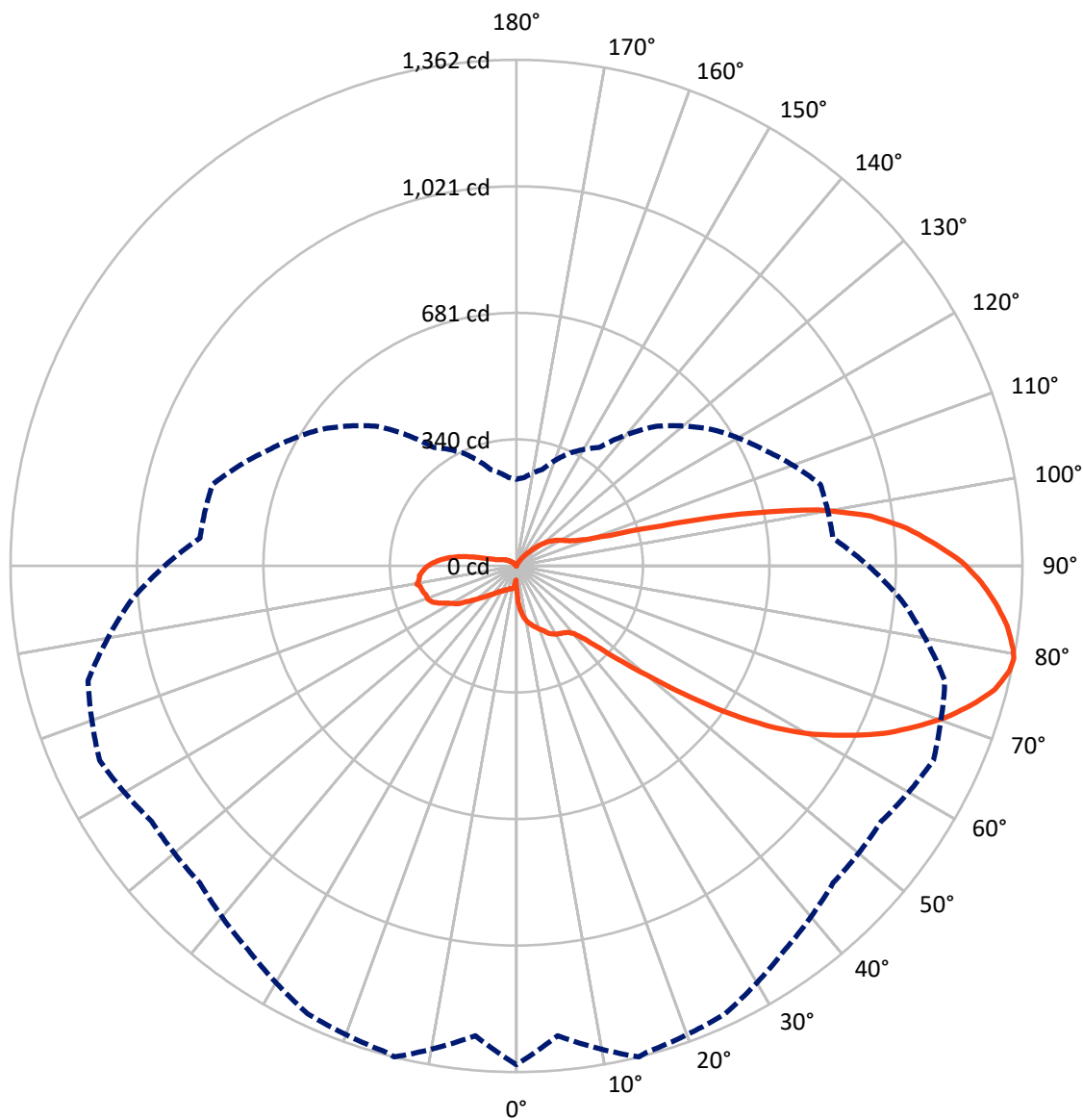


Based on 10 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 14-Deg Lateral - - - Horizontal Cone Through 79-Deg Vertical

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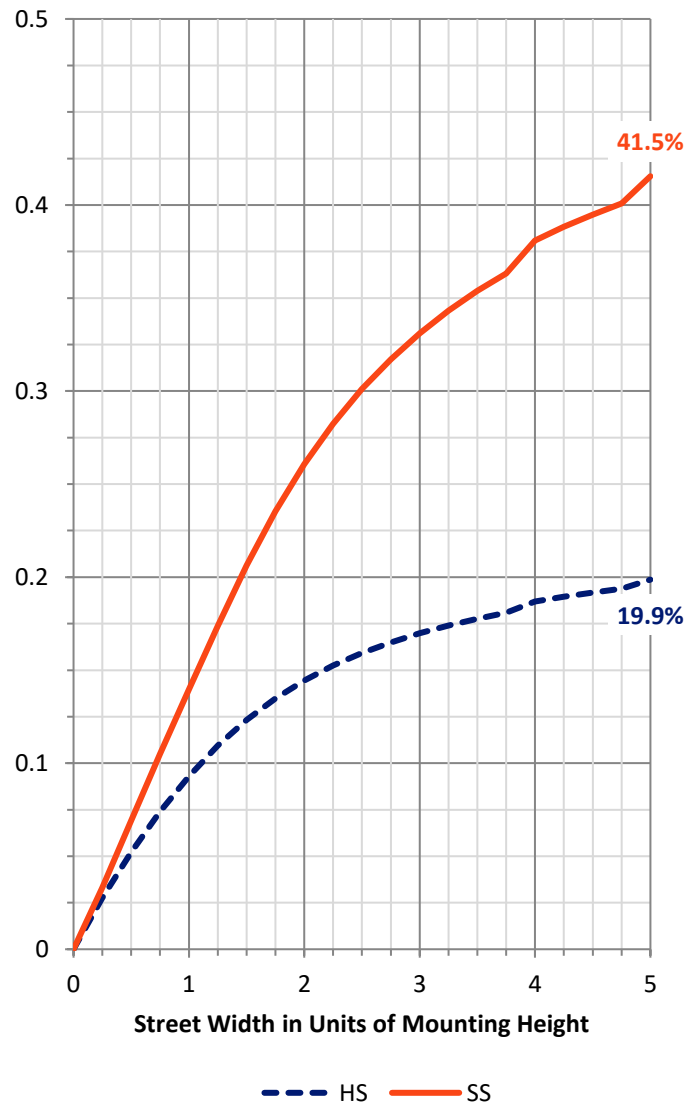
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1062.3	393.3	1455.6
	% Fixture	22.6	8.4	31.0
Street Side	Lumens	2339.6	900.7	3240.4
	% Fixture	49.8	19.2	69.0
Total	Lumens	3402.0	1294.0	4696.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.2
10°-20°	33.7	0.7
20°-30°	65.8	1.4
30°-40°	100.3	2.1
40°-50°	188.3	4.0
50°-60°	452.9	9.6
60°-70°	725.2	15.4
70°-80°	910.6	19.4
80°-90°	916.4	19.5
90°-100°	748.1	15.9
100°-110°	316.5	6.7
110°-120°	109.4	2.3
120°-130°	73.0	1.6
130°-140°	36.1	0.8
140°-150°	10.4	0.2
150°-160°	0.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	3402.0	72.4
0°-180°	4696.0	100.0

Coefficient of Utilization



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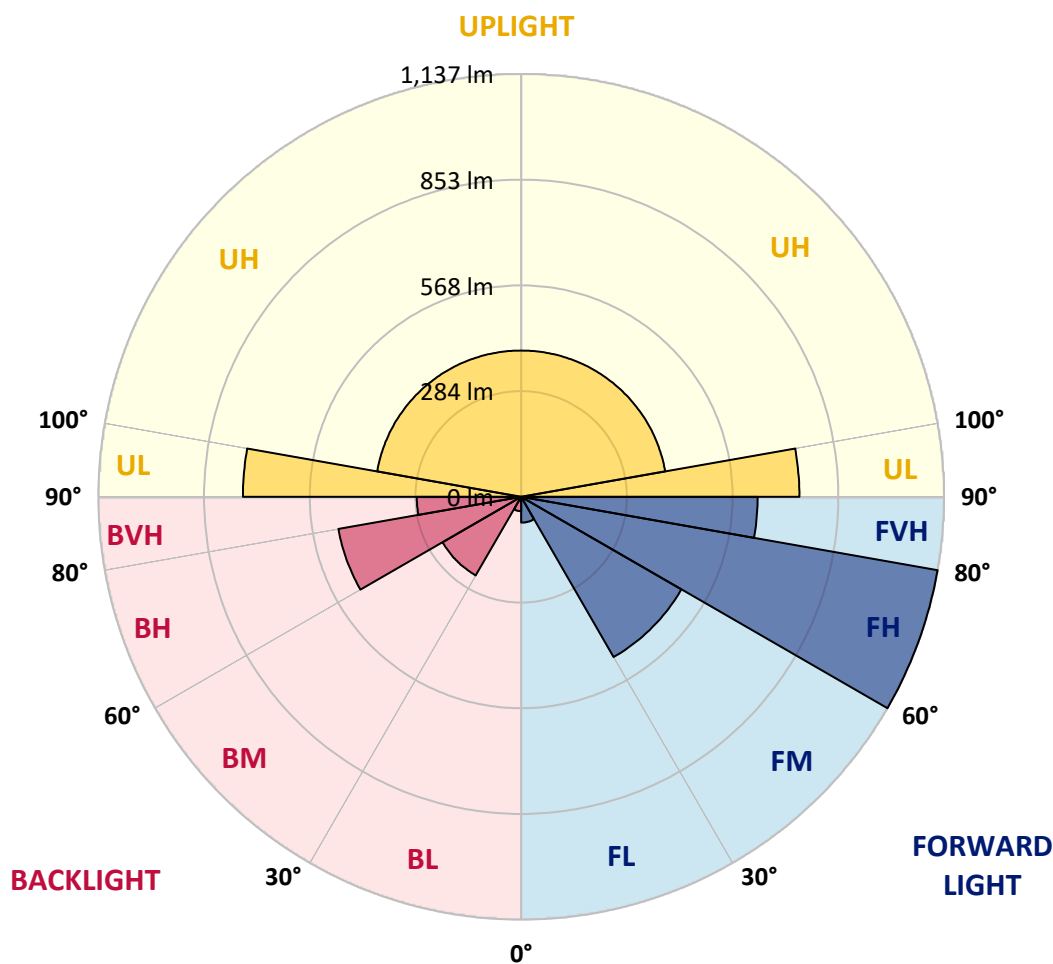
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	69.5	1.5			
FM	(30°-60°)	497.4	10.6			
FH	(60°-80°)	1136.9	24.2			G1/1800
FVH	(80°-90°)	635.8	13.5			G4/750
BL	(0°-30°)	38.7	0.8	B0/110		
BM	(30°-60°)	244.2	5.2	B1/1000		
BH	(60°-80°)	498.9	10.6	B1/500		G1/500
BVH	(80°-90°)	280.6	6.0			G3/500
UL	(90°-100°)	748.1	15.9		U4/1000	
UH	(100°-180°)	393.3	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°	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
2.5°	102.4	99.3	99.3	99.3	96.9	93.0	89.0	86.7	81.2	76.4	69.3
5°	124.5	122.9	121.4	121.4	119.0	118.2	114.3	108.0	101.7	95.4	87.5
7.5°	141.1	139.5	137.9	138.7	135.5	132.4	128.4	122.9	116.6	110.3	102.4
10°	152.1	151.3	150.5	150.5	146.6	142.6	137.9	133.2	126.1	119.0	110.3
12.5°	160.0	159.2	159.2	159.2	155.2	149.7	145.8	140.3	134.0	126.1	117.4
15°	167.9	167.9	167.1	166.3	162.3	157.6	153.7	148.9	142.6	134.0	125.3
17.5°	175.7	174.9	174.2	174.2	170.2	165.5	161.5	157.6	149.7	141.1	132.4
20°	185.2	183.6	182.0	182.0	178.1	172.6	169.4	165.5	157.6	148.9	139.5
22.5°	194.6	193.1	189.9	189.9	186.8	180.5	178.9	174.2	166.3	156.8	147.4
25°	204.9	204.1	200.9	200.2	196.2	188.3	186.8	182.8	174.2	164.7	155.2
27.5°	212.8	212.0	207.3	207.3	204.1	197.0	193.1	188.3	179.7	169.4	161.5
30°	218.3	217.5	212.8	212.0	208.0	203.3	198.6	191.5	182.8	172.6	165.5
32.5°	220.6	220.6	216.7	215.9	211.2	207.3	202.5	195.4	184.4	174.9	167.1
35°	225.4	224.6	220.6	219.9	214.3	211.2	204.9	196.2	186.0	176.5	168.6
37.5°	230.1	230.1	227.0	226.2	219.9	216.7	210.4	202.5	191.5	182.0	173.4
40°	241.1	241.9	239.6	238.8	232.5	230.9	225.4	219.9	212.0	202.5	187.6
42.5°	266.4	267.1	267.9	266.4	261.6	259.3	254.5	253.7	246.7	234.8	220.6
45°	309.7	314.4	316.8	314.4	308.1	307.3	303.4	305.0	299.5	287.6	269.5
47.5°	375.9	379.0	387.7	387.7	379.0	376.7	373.5	374.3	374.3	360.9	333.3
50°	459.4	465.7	472.0	476.8	472.8	466.5	462.6	470.5	476.8	457.8	420.8
52.5°	561.1	567.4	586.3	584.7	580.0	576.8	579.2	594.2	608.4	591.8	532.7
55°	680.1	688.7	706.1	710.0	700.6	696.6	694.3	716.3	740.0	722.6	643.0
57.5°	799.1	807.7	822.7	829.0	816.4	803.8	780.9	805.4	834.5	812.5	716.3
60°	898.4	903.1	919.6	926.7	913.3	895.2	853.4	877.9	910.2	886.5	778.6
62.5°	988.2	989.8	1003.2	1009.5	993.7	974.8	925.1	946.4	973.2	950.4	832.9
65°	1059.1	1058.3	1086.7	1089.1	1064.6	1038.6	991.3	1011.0	1032.3	1007.9	877.9
67.5°	1130.8	1122.2	1156.0	1158.4	1134.0	1100.1	1052.0	1062.3	1075.7	1057.5	927.5
70°	1189.9	1178.9	1223.8	1227.8	1191.5	1146.6	1108.0	1114.3	1134.0	1105.6	968.5
72.5°	1251.4	1224.6	1280.5	1282.9	1249.8	1190.7	1152.1	1150.5	1173.4	1141.9	999.2
75°	1301.0	1249.0	1329.4	1326.3	1295.5	1229.3	1186.8	1183.6	1213.6	1175.7	1022.1
77.5°	1346.7	1271.9	1357.0	1353.8	1325.5	1253.0	1205.7	1202.5	1234.8	1194.7	1042.6
79°	1342.0	1268.7	1361.7	1354.6	1329.4	1260.1	1205.7	1198.6	1238.0	1193.9	1039.4
80°	1342.8	1259.3	1355.4	1349.1	1321.5	1253.0	1193.1	1182.0	1217.5	1174.2	1024.4
82.5°	1311.3	1237.2	1331.0	1321.5	1300.2	1237.2	1177.3	1168.6	1215.9	1167.9	1018.1
85°	1278.2	1203.3	1294.7	1288.4	1268.7	1206.5	1145.0	1123.7	1165.5	1118.2	982.7
87.5°	1226.2	1160.8	1251.4	1246.7	1227.8	1172.6	1108.0	1093.0	1137.1	1094.6	958.2
90°	1181.3	1116.6	1199.4	1194.7	1177.3	1123.7	1064.6	1062.3	1107.2	1064.6	927.5
92.5°	1112.7	1052.0	1128.5	1122.9	1110.3	1064.6	1010.3	1003.2	1040.2	992.9	868.4
95°	1044.1	985.8	1056.0	1053.6	1037.0	997.6	945.6	932.2	969.3	934.6	818.0
97.5°	953.5	898.4	963.0	962.2	950.4	913.3	869.2	863.7	902.3	866.8	762.0
100°	813.2	765.2	826.6	819.6	821.1	791.2	754.9	766.0	804.6	779.4	684.8
102.5°	604.4	580.8	617.8	621.0	623.3	602.8	589.4	587.9	624.9	602.1	526.4
105°	394.0	383.0	401.9	405.0	400.3	385.3	349.1	352.2	356.2	337.3	293.1
107.5°	263.2	258.5	266.4	267.9	264.0	251.4	230.1	227.7	229.3	219.1	192.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	201.7	199.4	204.1	204.9	201.7	189.9	178.1	177.3	178.9	171.8	153.7
112.5°	172.6	171.0	173.4	173.4	171.0	162.3	155.2	155.2	157.6	152.1	137.1
115°	157.6	156.0	156.8	157.6	154.5	146.6	141.1	142.6	145.0	140.3	126.9
117.5°	146.6	145.8	145.8	145.8	143.4	136.3	133.2	134.0	136.3	131.6	119.8
120°	137.1	137.1	136.3	136.3	134.0	128.4	126.1	127.7	129.2	125.3	114.3
122.5°	127.7	127.7	126.9	126.9	125.3	120.6	119.0	121.4	122.9	118.2	108.7
125°	117.4	117.4	115.8	115.8	114.3	111.9	111.1	113.5	115.1	111.1	101.7
127.5°	106.4	106.4	104.0	104.8	102.4	101.7	101.7	104.8	106.4	103.2	94.6
130°	94.6	93.8	90.6	91.4	89.8	89.8	91.4	93.8	95.4	92.2	85.1
132.5°	80.4	80.4	76.4	77.2	76.4	77.2	78.8	81.2	82.0	80.4	74.1
135°	66.2	66.2	63.0	63.8	63.0	63.0	65.4	67.0	68.6	67.0	61.5
137.5°	52.8	52.8	49.6	50.4	49.6	48.9	50.4	51.2	52.0	50.4	48.1
140°	41.0	41.0	39.4	39.4	37.8	37.0	37.8	38.6	38.6	37.8	36.2
142.5°	32.3	33.1	31.5	31.5	29.2	29.2	29.2	29.9	29.9	29.9	28.4
145°	24.4	25.2	23.6	23.6	22.1	22.1	22.1	22.9	22.9	22.9	21.3
147.5°	17.3	17.3	16.5	16.5	15.0	15.8	15.8	16.5	16.5	15.8	15.0
150°	8.7	8.7	8.7	8.7	8.7	8.7	9.5	9.5	9.5	9.5	8.7
152.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
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°	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
2.5°	67.0	63.8	59.1	54.4	48.9	44.9	41.0	39.4	37.8	36.2	36.2
5°	82.7	78.8	72.5	65.4	61.5	56.0	52.8	49.6	48.1	48.1	48.1
7.5°	99.3	95.4	86.7	77.2	72.5	66.2	63.8	60.7	58.3	56.0	55.2
10°	106.4	102.4	94.6	86.7	80.4	74.1	68.6	65.4	61.5	59.1	59.1
12.5°	113.5	108.7	100.9	93.0	85.1	77.2	71.7	67.0	63.0	59.9	59.1
15°	120.6	115.8	107.2	98.5	89.0	80.4	74.1	68.6	63.8	60.7	59.9
17.5°	127.7	122.9	113.5	104.0	93.8	84.3	77.2	70.1	65.4	62.3	61.5
20°	134.8	129.2	119.8	109.5	98.5	89.0	79.6	72.5	67.8	64.6	63.8
22.5°	142.6	136.3	126.1	115.1	103.2	93.8	82.7	74.9	69.3	67.0	67.0
25°	150.5	142.6	132.4	119.8	108.7	98.5	85.9	77.2	71.7	70.1	70.9
27.5°	156.0	147.4	137.1	124.5	112.7	102.4	89.8	79.6	74.1	74.1	74.1
30°	159.2	152.1	141.1	128.4	117.4	106.4	93.0	82.7	77.2	77.2	77.2
32.5°	160.8	153.7	142.6	130.8	120.6	110.3	96.1	85.9	80.4	81.2	81.2
35°	162.3	156.0	145.0	133.2	123.7	112.7	100.1	89.8	85.1	85.9	85.1
37.5°	166.3	159.2	148.1	136.3	127.7	116.6	104.8	94.6	90.6	91.4	90.6
40°	178.9	170.2	158.4	144.2	135.5	122.9	111.1	100.1	97.7	97.7	96.9
42.5°	204.9	193.1	178.9	161.5	148.9	133.2	119.8	108.0	104.8	104.0	103.2
45°	249.0	230.1	215.1	189.9	170.2	149.7	132.4	117.4	113.5	111.9	111.1
47.5°	305.8	283.7	264.0	236.4	205.7	174.2	151.3	130.8	124.5	121.4	119.8
50°	388.5	351.5	325.5	291.6	252.2	208.0	174.9	148.1	137.1	130.0	128.4
52.5°	487.8	438.9	411.4	363.3	308.9	249.8	204.9	166.3	150.5	141.1	140.3
55°	590.2	528.8	496.5	442.1	368.8	299.5	239.6	189.1	167.1	154.5	152.9
57.5°	658.8	591.8	560.3	502.8	419.2	345.2	271.9	210.4	189.1	169.4	167.9
60°	710.8	639.1	609.9	540.6	453.9	380.6	294.7	230.9	200.9	182.0	178.9
62.5°	755.7	678.5	655.6	572.9	485.4	405.8	313.6	249.0	214.3	197.8	192.3
65°	800.6	721.8	694.3	609.1	510.6	431.1	331.8	270.3	234.8	211.2	211.2
67.5°	843.2	762.8	733.7	643.8	542.2	455.5	344.4	287.6	249.0	225.4	225.4
70°	881.8	792.8	769.9	675.3	572.9	475.2	343.6	304.2	256.9	235.6	226.2
72.5°	914.1	820.3	798.3	702.9	597.3	496.5	352.2	320.7	256.9	238.8	233.3
75°	931.5	840.0	825.9	719.5	624.1	513.8	366.4	322.3	263.2	238.0	234.0
77.5°	951.9	857.4	843.2	733.7	635.9	527.2	381.4	333.3	266.4	239.6	232.5
79°	947.2	855.0	847.1	736.8	640.7	531.1	389.3	334.1	268.7	238.8	233.3
80°	936.2	848.7	836.1	724.2	635.2	524.8	389.3	334.1	276.6	237.2	230.9
82.5°	926.7	840.8	829.8	720.3	625.7	513.8	390.1	333.3	267.9	232.5	227.0
85°	898.4	818.0	801.4	697.4	611.5	501.2	384.6	329.4	266.4	221.4	218.3
87.5°	870.8	792.8	780.9	677.7	591.8	485.4	377.5	319.9	256.1	213.6	211.2
90°	843.2	766.0	751.8	654.1	567.4	460.2	358.6	306.5	245.9	199.4	200.2
92.5°	790.4	721.0	706.1	615.5	531.9	432.6	336.5	286.1	229.3	189.1	185.2
95°	742.3	676.9	661.9	579.2	497.2	405.0	308.9	264.0	209.6	173.4	171.0
97.5°	694.3	629.6	613.9	537.4	457.1	371.2	278.2	237.2	185.2	154.5	149.7
100°	619.4	561.1	540.6	468.9	388.5	318.4	232.5	198.6	154.5	128.4	122.9
102.5°	468.9	421.6	400.3	349.9	275.8	227.7	168.6	146.6	113.5	96.9	93.8
105°	261.6	238.0	228.5	199.4	166.3	137.9	105.6	97.7	78.0	69.3	68.6
107.5°	174.9	160.8	153.7	139.5	116.6	97.7	76.4	71.7	59.1	52.8	52.0



REPORT NUMBER: P314573

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	141.8	131.6	125.3	113.5	96.1	80.4	63.8	59.9	49.6	44.9	44.1
112.5°	127.7	117.4	111.9	100.9	85.1	70.9	56.7	52.8	44.1	40.2	39.4
115°	118.2	109.5	103.2	93.0	78.0	64.6	52.0	48.1	41.0	36.2	35.5
117.5°	111.9	103.2	96.9	86.7	73.3	59.9	48.9	44.1	37.0	32.3	32.3
120°	106.4	98.5	92.2	82.0	68.6	56.0	44.9	39.4	33.1	28.4	28.4
122.5°	101.7	93.8	87.5	76.4	63.0	50.4	41.0	34.7	29.2	24.4	24.4
125°	96.1	89.0	82.0	70.9	57.5	45.7	36.2	29.9	24.4	20.5	20.5
127.5°	89.0	82.7	74.9	63.8	52.0	40.2	32.3	26.0	20.5	17.3	17.3
130°	81.2	74.1	66.2	56.0	44.9	34.7	26.8	22.1	17.3	15.0	14.2
132.5°	70.1	64.6	56.7	48.1	37.8	29.2	22.1	18.1	14.2	11.8	11.8
135°	59.1	53.6	47.3	38.6	30.7	22.9	17.3	14.2	11.8	9.5	9.5
137.5°	45.7	41.8	37.0	29.9	22.9	17.3	13.4	11.0	8.7	7.1	7.1
140°	34.7	32.3	28.4	22.1	17.3	13.4	10.2	8.7	7.1	5.5	4.7
142.5°	26.8	25.2	22.1	17.3	13.4	10.2	7.9	6.3	4.7	3.9	3.2
145°	20.5	18.9	16.5	12.6	9.5	7.1	5.5	3.9	3.2	2.4	1.6
147.5°	15.0	13.4	11.0	8.7	6.3	3.9	3.2	2.4	1.6	0.8	0.8
150°	7.9	7.1	6.3	4.7	3.2	1.6	0.8	0.8	0.0	0.0	0.0
152.5°	1.6	1.6	1.6	1.6	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)