

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: P314574

Luminaire Tested: **MPN-A6-D-U-ASYM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314574
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-A6-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: 5666 lumens
Efficiency: N/A
Efficacy: 87.4 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 (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

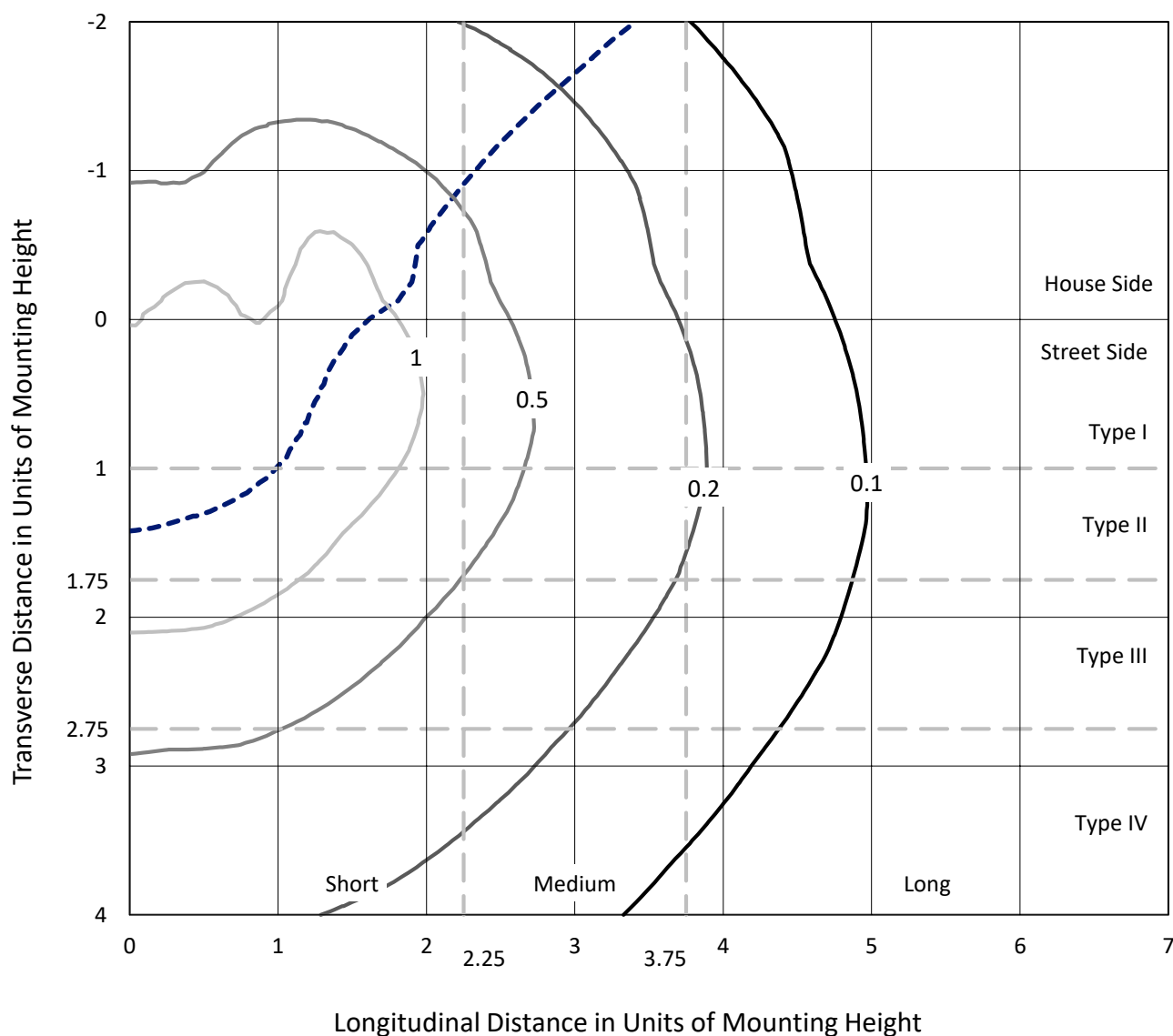


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

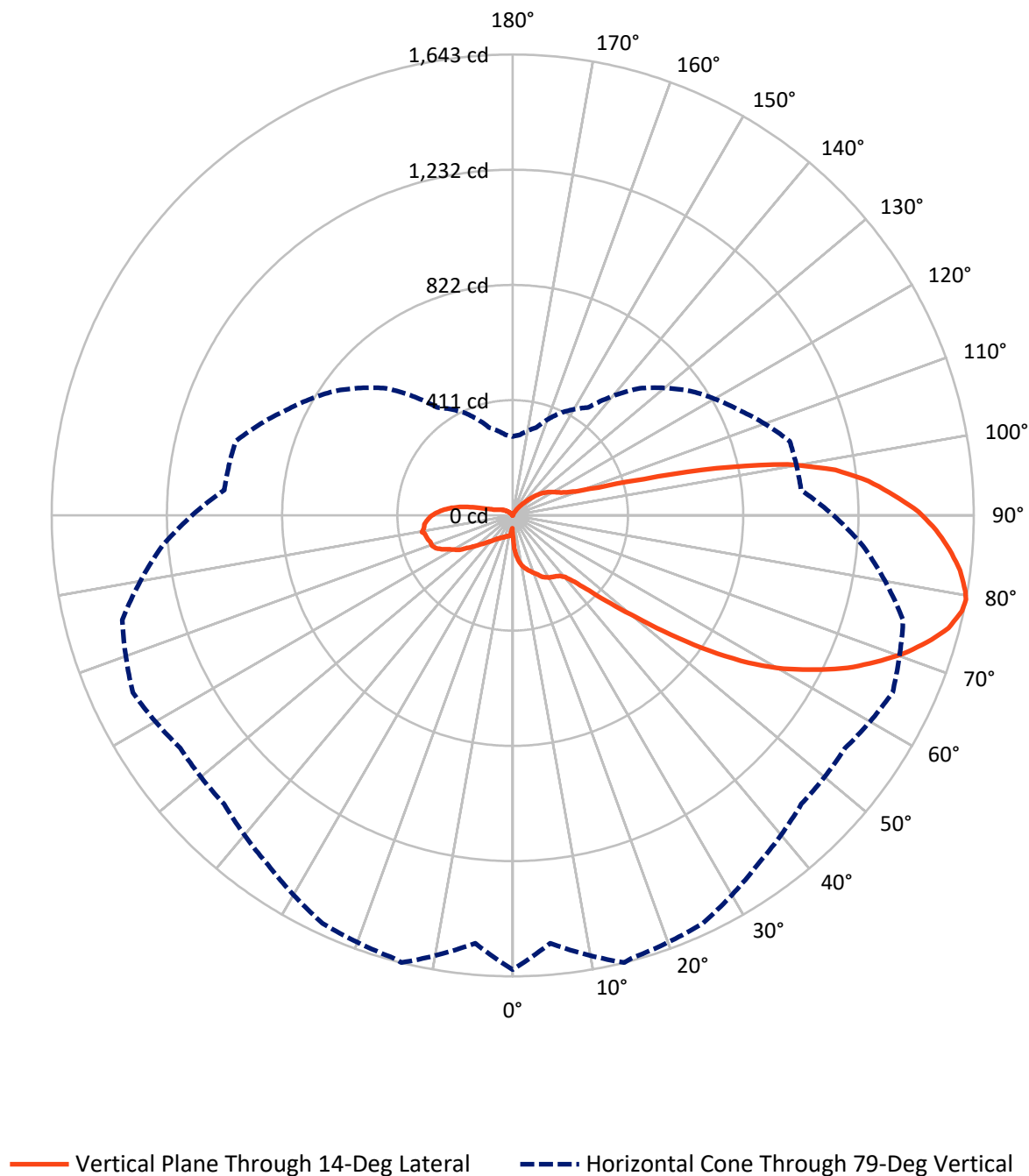


Based on 10 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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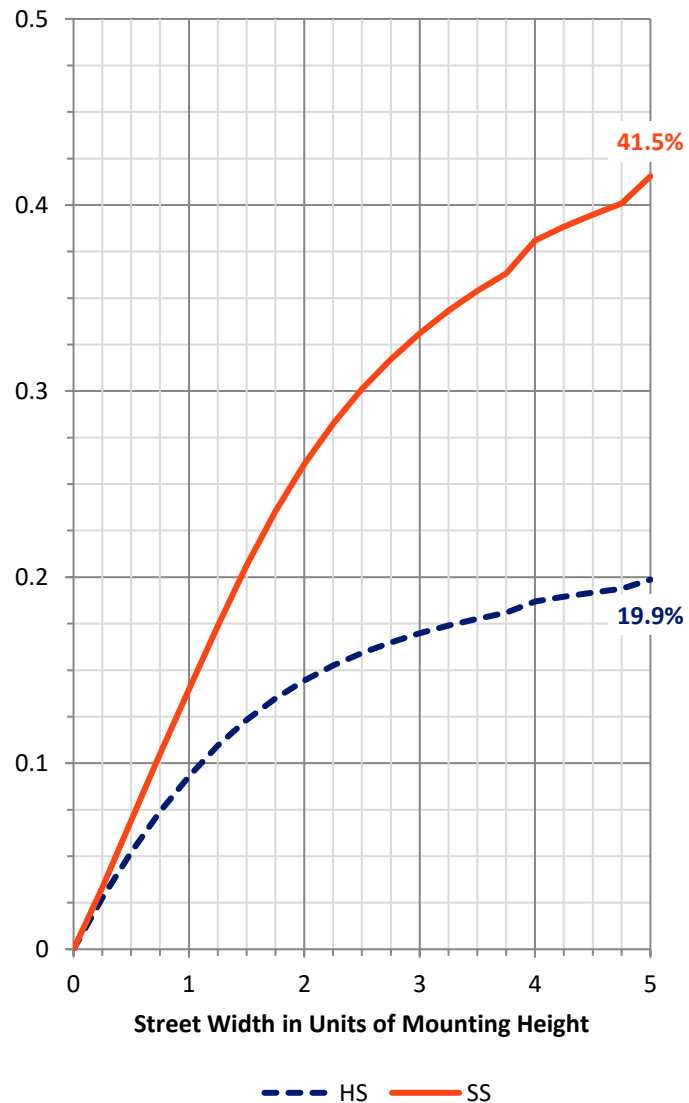
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1281.8	474.5	1756.3
	% Fixture	22.6	8.4	31.0
Street Side	Lumens	2822.9	1086.8	3909.7
	% Fixture	49.8	19.2	69.0
Total	Lumens	4104.7	1561.3	5666.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	0.2
10°-20°	40.6	0.7
20°-30°	79.4	1.4
30°-40°	121.0	2.1
40°-50°	227.2	4.0
50°-60°	546.5	9.6
60°-70°	875.1	15.4
70°-80°	1098.7	19.4
80°-90°	1105.7	19.5
90°-100°	902.6	15.9
100°-110°	381.8	6.7
110°-120°	132.1	2.3
120°-130°	88.0	1.6
130°-140°	43.6	0.8
140°-150°	12.5	0.2
150°-160°	0.6	0.0
160°-170°	0.1	0.0
170°-180°	0.1	0.0
0°-90°	4104.7	72.4
0°-180°	5666.0	100.0

Coefficient of Utilization



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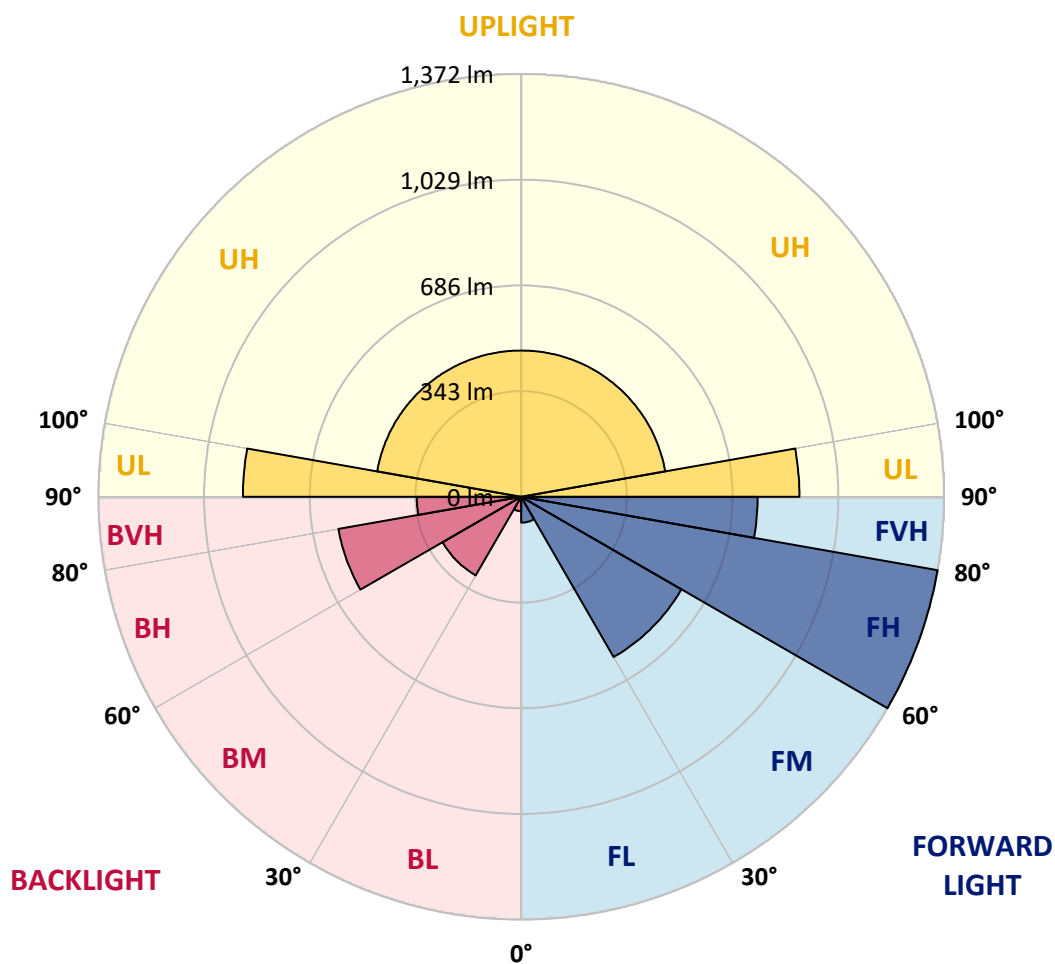
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	83.9	1.5			
FM	(30°-60°)	600.1	10.6			
FH	(60°-80°)	1371.7	24.2			G1/1800
FVH	(80°-90°)	767.2	13.5			G5
BL	(0°-30°)	46.7	0.8	B0/110		
BM	(30°-60°)	294.6	5.2	B1/1000		
BH	(60°-80°)	602.0	10.6	B2/1000		G2/1000
BVH	(80°-90°)	338.5	6.0			G3/500
UL	(90°-100°)	902.6	15.9		U4/1000	
UH	(100°-180°)	474.5	8.4		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°	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
2.5°	123.6	119.8	119.8	119.8	116.9	112.2	107.4	104.6	97.9	92.2	83.7
5°	150.2	148.3	146.4	146.4	143.6	142.6	137.9	130.3	122.7	115.0	105.5
7.5°	170.2	168.3	166.4	167.3	163.5	159.7	155.0	148.3	140.7	133.1	123.6
10°	183.5	182.6	181.6	181.6	176.8	172.1	166.4	160.7	152.1	143.6	133.1
12.5°	193.0	192.1	192.1	192.1	187.3	180.7	175.9	169.2	161.6	152.1	141.7
15°	202.5	202.5	200.6	200.6	195.9	190.2	185.4	179.7	172.1	161.6	151.2
17.5°	212.0	211.1	210.1	210.1	205.4	199.7	194.9	190.2	180.7	170.2	159.7
20°	223.4	221.5	219.6	219.6	214.9	208.2	204.4	199.7	190.2	179.7	168.3
22.5°	234.8	232.9	229.1	229.1	225.3	217.7	215.8	210.1	200.6	189.2	177.8
25°	247.2	246.3	241.5	241.5	236.8	227.2	225.3	220.6	210.1	198.7	187.3
27.5°	256.7	255.8	250.1	250.1	246.3	237.7	232.9	227.2	216.8	204.4	194.9
30°	263.4	262.4	255.8	255.8	251.0	245.3	239.6	231.0	220.6	208.2	199.7
32.5°	266.2	266.2	260.5	260.5	254.8	250.1	244.4	235.8	222.5	211.1	201.6
35°	271.9	271.0	265.3	265.3	258.6	254.8	247.2	236.8	224.4	213.0	203.5
37.5°	277.6	277.6	272.9	272.9	265.3	261.5	253.9	244.4	231.0	219.6	209.2
40°	290.9	291.9	288.1	288.1	280.5	278.6	271.9	265.3	255.8	244.4	226.3
42.5°	321.4	322.3	321.4	321.4	315.7	312.8	307.1	306.2	297.6	283.3	266.2
45°	373.7	379.4	379.4	379.4	371.8	370.8	366.1	368.0	361.3	347.0	325.2
47.5°	453.5	457.3	467.8	467.8	457.3	454.5	450.7	451.6	451.6	435.5	402.2
50°	554.3	561.9	575.2	575.2	570.5	562.9	558.1	567.6	575.2	552.4	507.7
52.5°	677.0	684.6	705.5	705.5	699.8	696.0	698.8	716.9	734.0	714.1	642.7
55°	820.5	831.0	856.7	856.7	845.3	840.5	837.7	864.3	892.8	871.9	775.9
57.5°	964.1	974.6	1000.2	1000.2	985.0	969.8	942.2	971.7	1006.9	980.3	864.3
60°	1083.9	1089.6	1118.1	1118.1	1102.0	1080.1	1029.7	1059.2	1098.2	1069.7	939.4
62.5°	1192.3	1194.2	1218.0	1218.0	1199.0	1176.1	1116.2	1141.9	1174.2	1146.7	1005.0
65°	1277.9	1276.9	1314.0	1314.0	1284.5	1253.2	1196.1	1219.9	1245.6	1216.1	1059.2
67.5°	1364.4	1353.9	1397.7	1397.7	1368.2	1327.3	1269.3	1281.7	1297.8	1276.0	1119.1
70°	1435.7	1422.4	1481.4	1481.4	1437.6	1383.4	1336.8	1344.4	1368.2	1334.0	1168.5
72.5°	1509.9	1477.5	1547.9	1547.9	1508.0	1436.7	1390.1	1388.2	1415.7	1377.7	1205.6
75°	1569.8	1507.0	1600.2	1600.2	1563.1	1483.3	1431.9	1428.1	1464.2	1418.6	1233.2
77.5°	1624.9	1534.6	1633.5	1633.5	1599.3	1511.8	1454.7	1450.9	1489.9	1441.4	1257.9
79°	1619.2	1530.8	1634.4	1634.4	1604.0	1520.3	1454.7	1446.2	1493.7	1440.5	1254.1
80°	1620.2	1519.4	1627.8	1627.8	1594.5	1511.8	1439.5	1426.2	1469.0	1416.7	1236.0
82.5°	1582.1	1492.8	1594.5	1594.5	1568.8	1492.8	1420.5	1410.0	1467.1	1409.1	1228.4
85°	1542.2	1451.9	1554.6	1554.6	1530.8	1455.7	1381.5	1355.8	1406.2	1349.2	1185.7
87.5°	1479.5	1400.5	1504.2	1504.2	1481.4	1414.8	1336.8	1318.8	1372.0	1320.7	1156.2
90°	1425.3	1347.3	1441.4	1441.4	1420.5	1355.8	1284.5	1281.7	1335.9	1284.5	1119.1
92.5°	1342.5	1269.3	1354.9	1354.9	1339.7	1284.5	1218.9	1210.4	1255.1	1198.0	1047.8
95°	1259.8	1189.5	1271.2	1271.2	1251.3	1203.7	1141.0	1124.8	1169.5	1127.7	986.9
97.5°	1150.5	1083.9	1160.9	1160.9	1146.7	1102.0	1048.7	1042.1	1088.7	1045.9	919.4
100°	981.2	923.2	988.8	988.8	990.7	954.6	910.9	924.2	970.8	940.3	826.2
102.5°	729.3	700.7	749.2	749.2	752.1	727.4	711.2	709.3	754.0	726.4	635.1
105°	475.4	462.1	488.7	488.7	483.0	464.9	421.2	425.0	429.8	406.9	353.7
107.5°	317.6	311.9	323.3	323.3	318.5	303.3	277.6	274.8	276.7	264.3	232.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	243.4	240.6	246.3	247.2	243.4	229.1	214.9	213.9	215.8	207.3	185.4
112.5°	208.2	206.3	209.2	209.2	206.3	195.9	187.3	187.3	190.2	183.5	165.4
115°	190.2	188.3	189.2	190.2	186.4	176.8	170.2	172.1	174.9	169.2	153.1
117.5°	176.8	175.9	175.9	175.9	173.0	164.5	160.7	161.6	164.5	158.8	144.5
120°	165.4	165.4	164.5	164.5	161.6	155.0	152.1	154.0	155.9	151.2	137.9
122.5°	154.0	154.0	153.1	153.1	151.2	145.5	143.6	146.4	148.3	142.6	131.2
125°	141.7	141.7	139.8	139.8	137.9	135.0	134.1	136.9	138.8	134.1	122.7
127.5°	128.4	128.4	125.5	126.5	123.6	122.7	122.7	126.5	128.4	124.6	114.1
130°	114.1	113.1	109.3	110.3	108.4	108.4	110.3	113.1	115.0	111.2	102.7
132.5°	97.0	97.0	92.2	93.2	92.2	93.2	95.1	97.9	98.9	97.0	89.4
135°	79.9	79.9	76.1	77.0	76.1	76.1	78.9	80.8	82.7	80.8	74.2
137.5°	63.7	63.7	59.9	60.9	59.9	58.9	60.9	61.8	62.8	60.9	58.0
140°	49.4	49.4	47.5	47.5	45.6	44.7	45.6	46.6	46.6	45.6	43.7
142.5°	39.0	39.9	38.0	38.0	35.2	35.2	35.2	36.1	36.1	36.1	34.2
145°	29.5	30.4	28.5	28.5	26.6	26.6	26.6	27.6	27.6	27.6	25.7
147.5°	20.9	20.9	20.0	20.0	18.1	19.0	19.0	20.0	20.0	19.0	18.1
150°	10.5	10.5	10.5	10.5	10.5	10.5	11.4	11.4	11.4	11.4	10.5
152.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9
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	1.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0
165°	0.0	0.0	0.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0
167.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
170°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
172.5°	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
175°	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
177.5°	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
2.5°	80.8	77.0	71.3	65.6	58.9	54.2	49.4	47.5	45.6	43.7	43.7
5°	99.8	95.1	87.5	78.9	74.2	67.5	63.7	59.9	58.0	58.0	58.0
7.5°	119.8	115.0	104.6	93.2	87.5	79.9	77.0	73.2	70.4	67.5	66.6
10°	128.4	123.6	114.1	104.6	97.0	89.4	82.7	78.9	74.2	71.3	71.3
12.5°	136.9	131.2	121.7	112.2	102.7	93.2	86.5	80.8	76.1	72.3	71.3
15°	145.5	139.8	129.3	118.9	107.4	97.0	89.4	82.7	77.0	73.2	72.3
17.5°	154.0	148.3	136.9	125.5	113.1	101.7	93.2	84.6	78.9	75.1	74.2
20°	162.6	155.9	144.5	132.2	118.9	107.4	96.0	87.5	81.8	78.0	77.0
22.5°	172.1	164.5	152.1	138.8	124.6	113.1	99.8	90.3	83.7	80.8	80.8
25°	181.6	172.1	159.7	144.5	131.2	118.9	103.6	93.2	86.5	84.6	85.6
27.5°	188.3	177.8	165.4	150.2	136.0	123.6	108.4	96.0	89.4	89.4	89.4
30°	192.1	183.5	170.2	155.0	141.7	128.4	112.2	99.8	93.2	93.2	93.2
32.5°	194.0	185.4	172.1	157.8	145.5	133.1	116.0	103.6	97.0	97.9	97.9
35°	195.9	188.3	174.9	160.7	149.3	136.0	120.8	108.4	102.7	103.6	102.7
37.5°	200.6	192.1	178.8	164.5	154.0	140.7	126.5	114.1	109.3	110.3	109.3
40°	215.8	205.4	191.1	174.0	163.5	148.3	134.1	120.8	117.9	117.9	116.9
42.5°	247.2	232.9	215.8	194.9	179.7	160.7	144.5	130.3	126.5	125.5	124.6
45°	300.5	277.6	259.6	229.1	205.4	180.7	159.7	141.7	136.9	135.0	134.1
47.5°	368.9	342.3	318.5	285.2	248.2	210.1	182.6	157.8	150.2	146.4	144.5
50°	468.7	424.1	392.7	351.8	304.3	251.0	211.1	178.8	165.4	156.9	155.0
52.5°	588.5	529.6	496.3	438.3	372.7	301.4	247.2	200.6	181.6	170.2	169.2
55°	712.2	638.0	599.0	533.4	445.0	361.3	289.0	228.2	201.6	186.4	184.5
57.5°	794.9	714.1	676.0	606.6	505.8	416.5	328.0	253.9	228.2	204.4	202.5
60°	857.6	771.1	735.9	652.3	547.7	459.2	355.6	278.6	242.5	219.6	215.8
62.5°	911.8	818.6	791.1	691.2	585.7	489.7	378.4	300.5	258.6	238.7	232.0
65°	966.0	870.9	837.7	735.0	616.1	520.1	400.3	326.1	283.3	254.8	254.8
67.5°	1017.4	920.4	885.2	776.8	654.2	549.6	415.5	347.0	300.5	271.9	271.9
70°	1063.9	956.5	928.9	814.8	691.2	573.3	414.6	367.0	310.0	284.3	272.9
72.5°	1102.9	989.8	963.2	848.1	720.7	599.0	425.0	387.0	310.0	288.1	281.4
75°	1123.9	1013.6	996.4	868.1	753.0	619.9	442.1	388.9	317.6	287.1	282.4
77.5°	1148.6	1034.5	1017.4	885.2	767.3	636.1	460.2	402.2	321.4	289.0	280.5
79°	1142.9	1031.6	1022.1	889.0	773.0	640.8	469.7	403.1	324.2	288.1	281.4
80°	1129.6	1024.0	1008.8	873.8	766.3	633.2	469.7	403.1	333.7	286.2	278.6
82.5°	1118.1	1014.5	1001.2	869.0	754.9	619.9	470.6	402.2	323.3	280.5	273.8
85°	1083.9	986.9	967.0	841.5	737.8	604.7	464.0	397.4	321.4	267.2	263.4
87.5°	1050.6	956.5	942.2	817.7	714.1	585.7	455.4	386.0	309.0	257.7	254.8
90°	1017.4	924.2	907.1	789.2	684.6	555.3	432.6	369.9	296.7	240.6	241.5
92.5°	953.7	870.0	851.9	742.6	641.8	522.0	406.0	345.1	276.7	228.2	223.4
95°	895.7	816.7	798.7	698.8	600.0	488.7	372.7	318.5	252.9	209.2	206.3
97.5°	837.7	759.7	740.7	648.4	551.5	447.8	335.6	286.2	223.4	186.4	180.7
100°	747.3	677.0	652.3	565.7	468.7	384.1	280.5	239.6	186.4	155.0	148.3
102.5°	565.7	508.7	483.0	422.2	332.8	274.8	203.5	176.8	136.9	116.9	113.1
105°	315.7	287.1	275.7	240.6	200.6	166.4	127.4	117.9	94.1	83.7	82.7
107.5°	211.1	194.0	185.4	168.3	140.7	117.9	92.2	86.5	71.3	63.7	62.8



REPORT NUMBER: P314574

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	171.1	158.8	151.2	136.9	116.0	97.0	77.0	72.3	59.9	54.2	53.2
112.5°	154.0	141.7	135.0	121.7	102.7	85.6	68.5	63.7	53.2	48.5	47.5
115°	142.6	132.2	124.6	112.2	94.1	78.0	62.8	58.0	49.4	43.7	42.8
117.5°	135.0	124.6	116.9	104.6	88.4	72.3	58.9	53.2	44.7	39.0	39.0
120°	128.4	118.9	111.2	98.9	82.7	67.5	54.2	47.5	39.9	34.2	34.2
122.5°	122.7	113.1	105.5	92.2	76.1	60.9	49.4	41.8	35.2	29.5	29.5
125°	116.0	107.4	98.9	85.6	69.4	55.1	43.7	36.1	29.5	24.7	24.7
127.5°	107.4	99.8	90.3	77.0	62.8	48.5	39.0	31.4	24.7	20.9	20.9
130°	97.9	89.4	79.9	67.5	54.2	41.8	32.3	26.6	20.9	18.1	17.1
132.5°	84.6	78.0	68.5	58.0	45.6	35.2	26.6	21.9	17.1	14.3	14.3
135°	71.3	64.7	57.0	46.6	37.1	27.6	20.9	17.1	14.3	11.4	11.4
137.5°	55.1	50.4	44.7	36.1	27.6	20.9	16.2	13.3	10.5	8.6	8.6
140°	41.8	39.0	34.2	26.6	20.9	16.2	12.4	10.5	8.6	6.7	5.7
142.5°	32.3	30.4	26.6	20.9	16.2	12.4	9.5	7.6	5.7	4.8	3.8
145°	24.7	22.8	20.0	15.2	11.4	8.6	6.7	4.8	3.8	2.9	1.9
147.5°	18.1	16.2	13.3	10.5	7.6	4.8	3.8	2.9	1.9	1.0	1.0
150°	9.5	8.6	7.6	5.7	3.8	1.9	1.0	1.0	0.0	0.0	0.0
152.5°	1.9	1.9	1.9	1.9	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	1.0	1.0	1.0	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	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

(END OF REPORT)