

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: P314569

Luminaire Tested: **MPN-A7-D-U-ASYM-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314569
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-A7-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: 5811 lumens
Efficiency: N/A
Efficacy: 83.4 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): 69.7
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

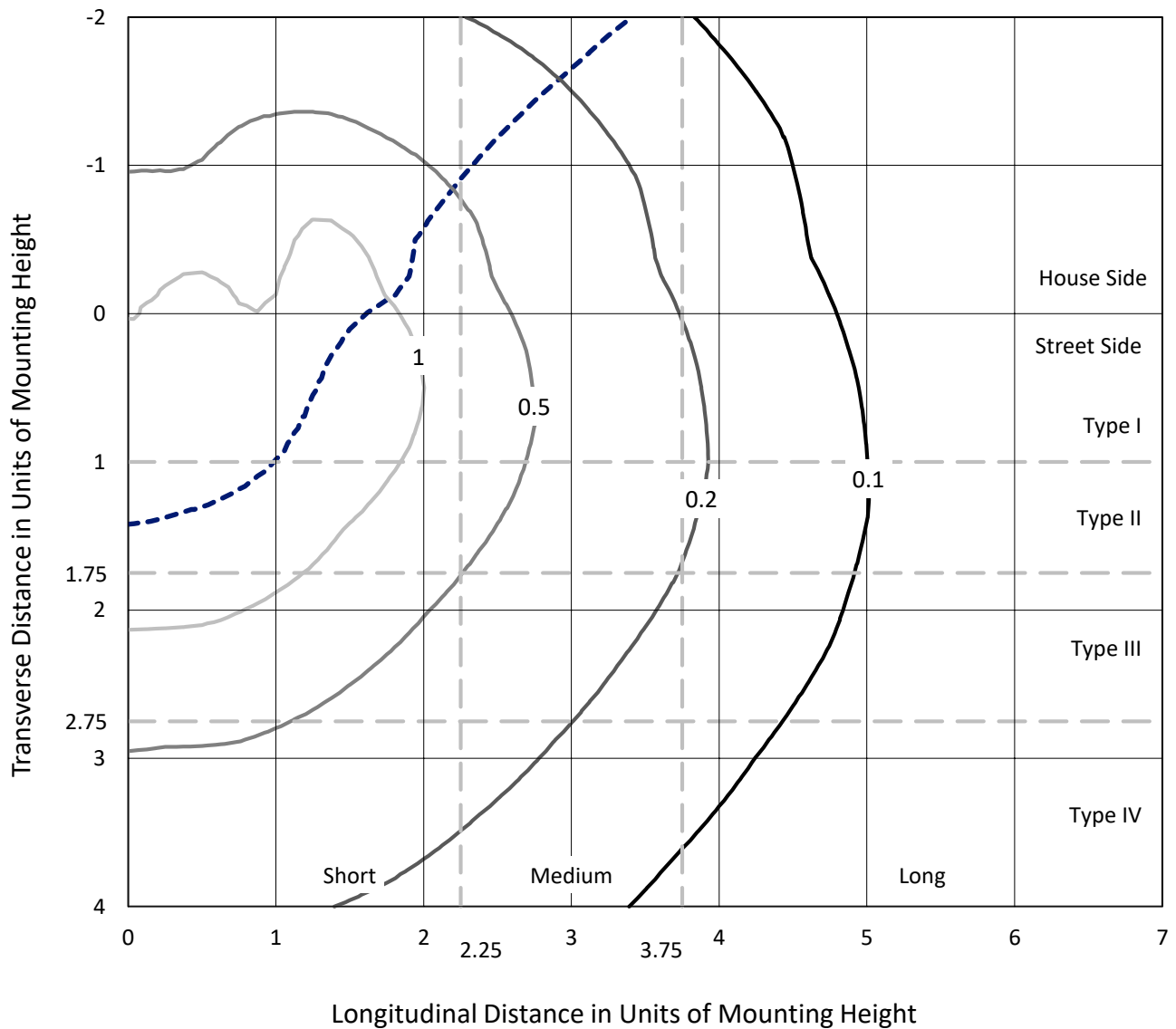


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

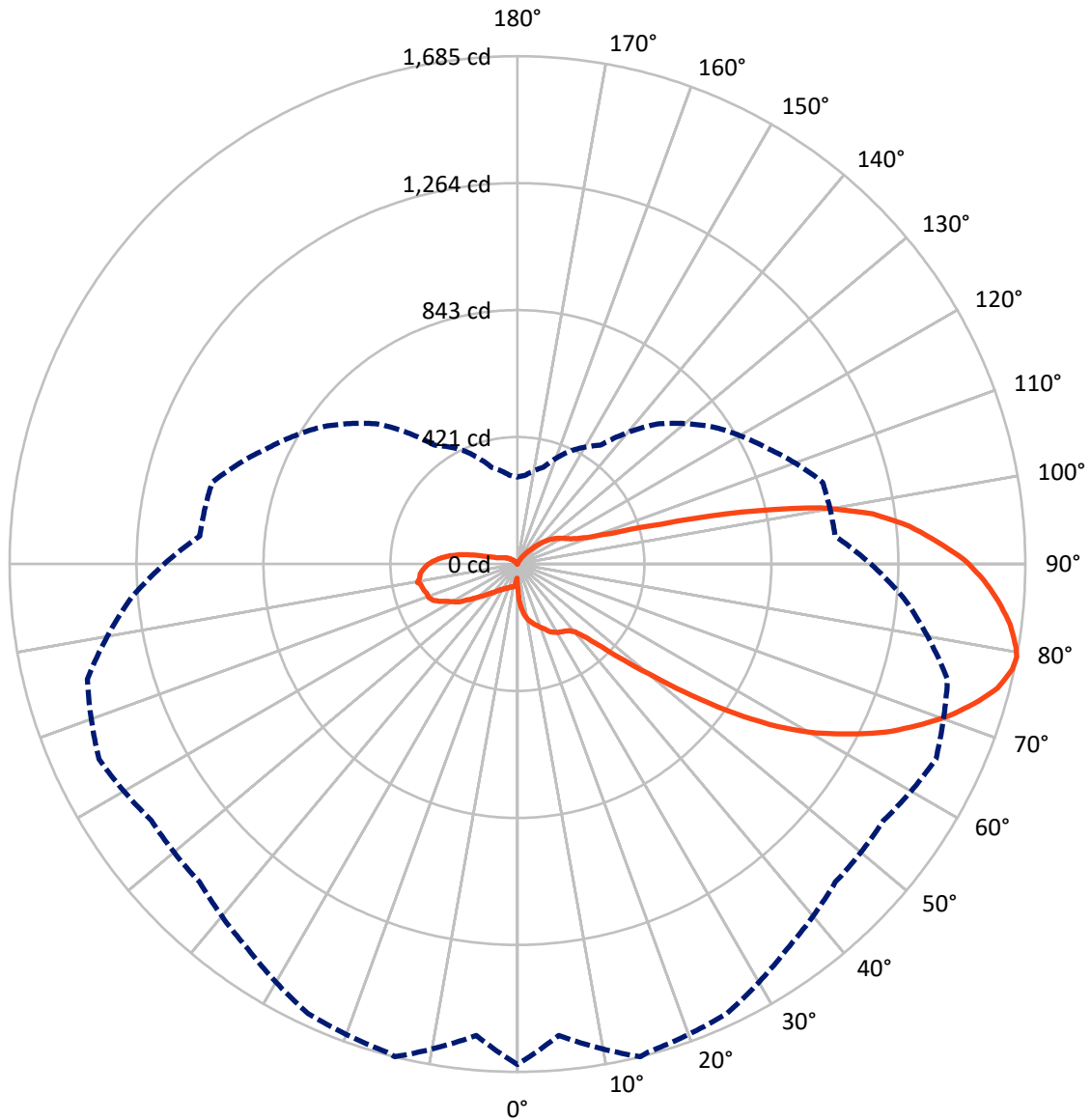


Based on 10 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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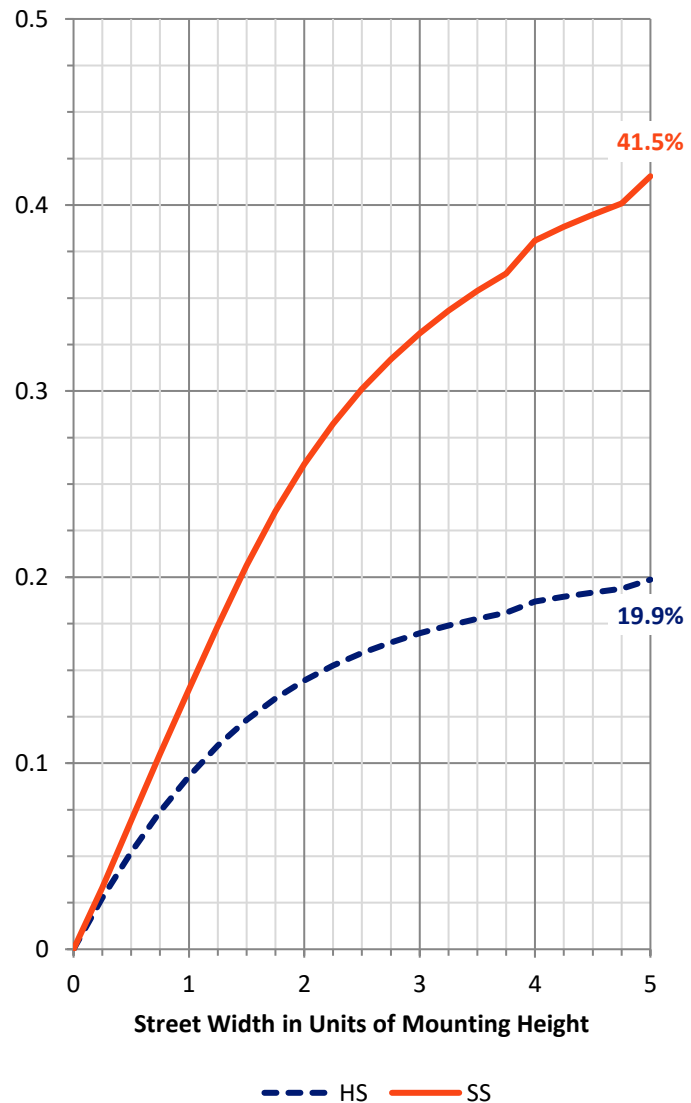
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1314.6	486.7	1801.2
	% Fixture	22.6	8.4	31.0
Street Side	Lumens	2895.2	1114.6	4009.8
	% Fixture	49.8	19.2	69.0
Total	Lumens	4209.7	1601.3	5811.0
	% Fixture	72.4	27.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.8	0.2
10°-20°	41.7	0.7
20°-30°	81.4	1.4
30°-40°	124.1	2.1
40°-50°	233.0	4.0
50°-60°	560.5	9.6
60°-70°	897.4	15.4
70°-80°	1126.8	19.4
80°-90°	1134.0	19.5
90°-100°	925.7	15.9
100°-110°	391.6	6.7
110°-120°	135.4	2.3
120°-130°	90.3	1.6
130°-140°	44.7	0.8
140°-150°	12.8	0.2
150°-160°	0.6	0.0
160°-170°	0.1	0.0
170°-180°	0.1	0.0
0°-90°	4209.7	72.4
0°-180°	5811.0	100.0



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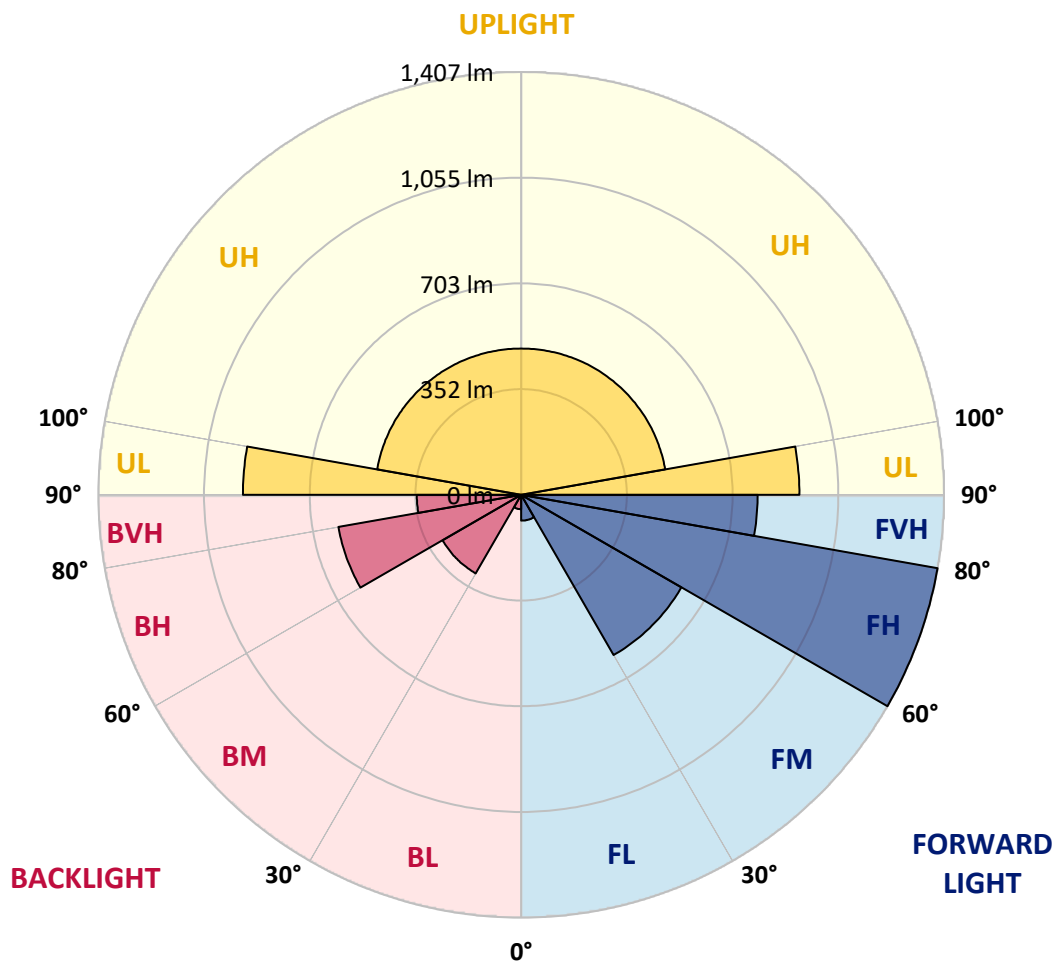
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	86.0	1.5			
FM	(30°-60°)	615.5	10.6			
FH	(60°-80°)	1406.8	24.2			G1/1800
FVH	(80°-90°)	786.8	13.5			G5
BL	(0°-30°)	47.9	0.8	B0/110		
BM	(30°-60°)	302.1	5.2	B1/1000		
BH	(60°-80°)	617.4	10.6	B2/1000		G2/1000
BVH	(80°-90°)	347.2	6.0			G3/500
UL	(90°-100°)	925.7	15.9		U4/1000	
UH	(100°-180°)	486.7	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°	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
2.5°	126.8	122.9	122.9	122.9	119.9	115.1	110.2	107.3	100.4	94.6	85.8
5°	154.1	152.1	150.2	150.2	147.2	146.3	141.4	133.6	125.8	118.0	108.2
7.5°	174.5	172.6	170.6	171.6	167.7	163.8	158.9	152.1	144.3	136.5	126.8
10°	188.2	187.2	186.3	186.3	181.4	176.5	170.6	164.8	156.0	147.2	136.5
12.5°	198.0	197.0	197.0	197.0	192.1	185.3	180.4	173.6	165.8	156.0	145.3
15°	207.7	207.7	206.7	205.8	200.9	195.0	190.2	184.3	176.5	165.8	155.0
17.5°	217.5	216.5	215.5	215.5	210.6	204.8	199.9	195.0	185.3	174.5	163.8
20°	229.2	227.2	225.3	225.3	220.4	213.6	209.7	204.8	195.0	184.3	172.6
22.5°	240.9	238.9	235.0	235.0	231.1	223.3	221.4	215.5	205.8	194.1	182.4
25°	253.5	252.6	248.7	247.7	242.8	233.1	231.1	226.2	215.5	203.8	192.1
27.5°	263.3	262.3	256.5	256.5	252.6	243.8	238.9	233.1	222.3	209.7	199.9
30°	270.1	269.1	263.3	262.3	257.4	251.6	245.7	237.0	226.2	213.6	204.8
32.5°	273.0	273.0	268.2	267.2	261.3	256.5	250.6	241.8	228.2	216.5	206.7
35°	278.9	277.9	273.0	272.1	265.2	261.3	253.5	242.8	230.1	218.4	208.7
37.5°	284.7	284.7	280.8	279.9	272.1	268.2	260.4	250.6	237.0	225.3	214.5
40°	298.4	299.4	296.4	295.5	287.7	285.7	278.9	272.1	262.3	250.6	232.1
42.5°	329.6	330.6	331.5	329.6	323.7	320.8	315.0	314.0	305.2	290.6	273.0
45°	383.2	389.1	392.0	389.1	381.3	380.3	375.4	377.4	370.6	355.9	333.5
47.5°	465.1	469.0	479.8	479.8	469.0	466.1	462.2	463.2	463.2	446.6	412.5
50°	568.5	576.3	584.1	590.0	585.1	577.3	572.4	582.2	590.0	566.6	520.7
52.5°	694.3	702.1	725.5	723.6	717.7	713.8	716.7	735.3	752.8	732.3	659.2
55°	841.5	852.3	873.7	878.6	866.9	862.0	859.1	886.4	915.7	894.2	795.7
57.5°	988.8	999.5	1018.0	1025.8	1010.2	994.6	966.4	996.6	1032.7	1005.4	886.4
60°	1111.7	1117.5	1138.0	1146.8	1130.2	1107.8	1056.1	1086.3	1126.3	1097.0	963.4
62.5°	1222.8	1224.8	1241.3	1249.1	1229.6	1206.2	1144.8	1171.1	1204.3	1176.0	1030.7
65°	1310.6	1309.6	1344.7	1347.6	1317.4	1285.2	1226.7	1251.1	1277.4	1247.2	1086.3
67.5°	1399.3	1388.6	1430.5	1433.5	1403.2	1361.3	1301.8	1314.5	1331.1	1308.6	1147.7
70°	1472.5	1458.8	1514.4	1519.3	1474.4	1418.8	1371.0	1378.8	1403.2	1368.1	1198.4
72.5°	1548.5	1515.4	1584.6	1587.5	1546.6	1473.4	1425.6	1423.7	1452.0	1413.0	1236.5
75°	1610.0	1545.6	1645.1	1641.2	1603.1	1521.2	1468.6	1464.7	1501.7	1454.9	1264.8
77.5°	1666.5	1573.9	1679.2	1675.3	1640.2	1550.5	1492.0	1488.1	1528.0	1478.3	1290.1
79°	1660.7	1570.0	1685.0	1676.3	1645.1	1559.2	1492.0	1483.2	1531.9	1477.3	1286.2
80°	1661.6	1558.3	1677.2	1669.4	1635.3	1550.5	1476.4	1462.7	1506.6	1453.0	1267.7
82.5°	1622.6	1531.0	1647.0	1635.3	1609.0	1531.0	1456.9	1446.1	1504.6	1445.2	1259.9
85°	1581.7	1489.0	1602.1	1594.3	1570.0	1492.9	1416.9	1390.5	1442.2	1383.7	1216.0
87.5°	1517.3	1436.4	1548.5	1542.7	1519.3	1451.0	1371.0	1352.5	1407.1	1354.5	1185.8
90°	1461.7	1381.8	1484.2	1478.3	1456.9	1390.5	1317.4	1314.5	1370.1	1317.4	1147.7
92.5°	1376.9	1301.8	1396.4	1389.6	1374.0	1317.4	1250.1	1241.3	1287.2	1228.7	1074.6
95°	1292.1	1219.9	1306.7	1303.8	1283.3	1234.5	1170.2	1153.6	1199.4	1156.5	1012.2
97.5°	1179.9	1111.7	1191.6	1190.6	1176.0	1130.2	1075.6	1068.7	1116.5	1072.7	943.0
100°	1006.3	946.9	1022.9	1014.1	1016.1	979.0	934.2	947.8	995.6	964.4	847.4
102.5°	747.9	718.7	764.5	768.4	771.3	746.0	729.4	727.5	773.3	745.0	651.4
105°	487.6	473.9	497.3	501.2	495.4	476.8	432.0	435.9	440.8	417.4	362.8
107.5°	325.7	319.8	329.6	331.5	326.7	311.1	284.7	281.8	283.8	271.1	237.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	249.6	246.7	252.6	253.5	249.6	235.0	220.4	219.4	221.4	212.6	190.2
112.5°	213.6	211.6	214.5	214.5	211.6	200.9	192.1	192.1	195.0	188.2	169.7
115°	195.0	193.1	194.1	195.0	191.1	181.4	174.5	176.5	179.4	173.6	157.0
117.5°	181.4	180.4	180.4	180.4	177.5	168.7	164.8	165.8	168.7	162.8	148.2
120°	169.7	169.7	168.7	168.7	165.8	158.9	156.0	158.0	159.9	155.0	141.4
122.5°	158.0	158.0	157.0	157.0	155.0	149.2	147.2	150.2	152.1	146.3	134.6
125°	145.3	145.3	143.3	143.3	141.4	138.5	137.5	140.4	142.4	137.5	125.8
127.5°	131.6	131.6	128.7	129.7	126.8	125.8	125.8	129.7	131.6	127.7	117.0
130°	117.0	116.0	112.1	113.1	111.2	111.2	113.1	116.0	118.0	114.1	105.3
132.5°	99.5	99.5	94.6	95.6	94.6	95.6	97.5	100.4	101.4	99.5	91.7
135°	81.9	81.9	78.0	79.0	78.0	78.0	80.9	82.9	84.8	82.9	76.1
137.5°	65.3	65.3	61.4	62.4	61.4	60.5	62.4	63.4	64.4	62.4	59.5
140°	50.7	50.7	48.8	48.8	46.8	45.8	46.8	47.8	47.8	46.8	44.9
142.5°	40.0	41.0	39.0	39.0	36.1	36.1	36.1	37.1	37.1	37.1	35.1
145°	30.2	31.2	29.3	29.3	27.3	27.3	27.3	28.3	28.3	28.3	26.3
147.5°	21.5	21.5	20.5	20.5	18.5	19.5	19.5	20.5	20.5	19.5	18.5
150°	10.7	10.7	10.7	10.7	10.7	10.7	11.7	11.7	11.7	11.7	10.7
152.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
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	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°	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
2.5°	82.9	79.0	73.1	67.3	60.5	55.6	50.7	48.8	46.8	44.9	44.9
5°	102.4	97.5	89.7	80.9	76.1	69.2	65.3	61.4	59.5	59.5	59.5
7.5°	122.9	118.0	107.3	95.6	89.7	81.9	79.0	75.1	72.2	69.2	68.3
10°	131.6	126.8	117.0	107.3	99.5	91.7	84.8	80.9	76.1	73.1	73.1
12.5°	140.4	134.6	124.8	115.1	105.3	95.6	88.7	82.9	78.0	74.1	73.1
15°	149.2	143.3	132.6	121.9	110.2	99.5	91.7	84.8	79.0	75.1	74.1
17.5°	158.0	152.1	140.4	128.7	116.0	104.3	95.6	86.8	80.9	77.0	76.1
20°	166.7	159.9	148.2	135.5	121.9	110.2	98.5	89.7	83.9	80.0	79.0
22.5°	176.5	168.7	156.0	142.4	127.7	116.0	102.4	92.6	85.8	82.9	82.9
25°	186.3	176.5	163.8	148.2	134.6	121.9	106.3	95.6	88.7	86.8	87.8
27.5°	193.1	182.4	169.7	154.1	139.4	126.8	111.2	98.5	91.7	91.7	91.7
30°	197.0	188.2	174.5	158.9	145.3	131.6	115.1	102.4	95.6	95.6	95.6
32.5°	198.9	190.2	176.5	161.9	149.2	136.5	119.0	106.3	99.5	100.4	100.4
35°	200.9	193.1	179.4	164.8	153.1	139.4	123.8	111.2	105.3	106.3	105.3
37.5°	205.8	197.0	183.3	168.7	158.0	144.3	129.7	117.0	112.1	113.1	112.1
40°	221.4	210.6	196.0	178.4	167.7	152.1	137.5	123.8	120.9	120.9	119.9
42.5°	253.5	238.9	221.4	199.9	184.3	164.8	148.2	133.6	129.7	128.7	127.7
45°	308.1	284.7	266.2	235.0	210.6	185.3	163.8	145.3	140.4	138.5	137.5
47.5°	378.4	351.0	326.7	292.5	254.5	215.5	187.2	161.9	154.1	150.2	148.2
50°	480.7	434.9	402.7	360.8	312.0	257.4	216.5	183.3	169.7	160.9	158.9
52.5°	603.6	543.2	509.0	449.5	382.3	309.1	253.5	205.8	186.3	174.5	173.6
55°	730.4	654.3	614.3	547.1	456.4	370.6	296.4	234.0	206.7	191.1	189.2
57.5°	815.2	732.3	693.3	622.1	518.8	427.1	336.4	260.4	234.0	209.7	207.7
60°	879.6	790.8	754.8	668.9	561.7	471.0	364.7	285.7	248.7	225.3	221.4
62.5°	935.2	839.6	811.3	708.9	600.7	502.2	388.1	308.1	265.2	244.8	237.9
65°	990.7	893.2	859.1	753.8	631.9	533.4	410.5	334.5	290.6	261.3	261.3
67.5°	1043.4	943.9	907.9	796.7	670.9	563.6	426.1	355.9	308.1	278.9	278.9
70°	1091.2	981.0	952.7	835.7	708.9	588.0	425.2	376.4	317.9	291.6	279.9
72.5°	1131.2	1015.1	987.8	869.8	739.2	614.3	435.9	396.9	317.9	295.5	288.6
75°	1152.6	1039.5	1021.9	890.3	772.3	635.8	453.4	398.8	325.7	294.5	289.6
77.5°	1178.0	1060.9	1043.4	907.9	786.9	652.4	472.0	412.5	329.6	296.4	287.7
79°	1172.1	1058.0	1048.3	911.8	792.8	657.2	481.7	413.5	332.5	295.5	288.6
80°	1158.5	1050.2	1034.6	896.2	786.0	649.4	481.7	413.5	342.3	293.5	285.7
82.5°	1146.8	1040.5	1026.8	891.3	774.3	635.8	482.7	412.5	331.5	287.7	280.8
85°	1111.7	1012.2	991.7	863.0	756.7	620.2	475.9	407.6	329.6	274.0	270.1
87.5°	1077.5	981.0	966.4	838.6	732.3	600.7	467.1	395.9	316.9	264.3	261.3
90°	1043.4	947.8	930.3	809.4	702.1	569.5	443.7	379.3	304.2	246.7	247.7
92.5°	978.1	892.2	873.7	761.6	658.2	535.3	416.4	354.0	283.8	234.0	229.2
95°	918.6	837.6	819.1	716.7	615.3	501.2	382.3	326.7	259.4	214.5	211.6
97.5°	859.1	779.1	759.6	665.0	565.6	459.3	344.2	293.5	229.2	191.1	185.3
100°	766.5	694.3	668.9	580.2	480.7	394.0	287.7	245.7	191.1	158.9	152.1
102.5°	580.2	521.7	495.4	433.0	341.3	281.8	208.7	181.4	140.4	119.9	116.0
105°	323.7	294.5	282.8	246.7	205.8	170.6	130.7	120.9	96.5	85.8	84.8
107.5°	216.5	198.9	190.2	172.6	144.3	120.9	94.6	88.7	73.1	65.3	64.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	175.5	162.8	155.0	140.4	119.0	99.5	79.0	74.1	61.4	55.6	54.6
112.5°	158.0	145.3	138.5	124.8	105.3	87.8	70.2	65.3	54.6	49.7	48.8
115°	146.3	135.5	127.7	115.1	96.5	80.0	64.4	59.5	50.7	44.9	43.9
117.5°	138.5	127.7	119.9	107.3	90.7	74.1	60.5	54.6	45.8	40.0	40.0
120°	131.6	121.9	114.1	101.4	84.8	69.2	55.6	48.8	41.0	35.1	35.1
122.5°	125.8	116.0	108.2	94.6	78.0	62.4	50.7	42.9	36.1	30.2	30.2
125°	119.0	110.2	101.4	87.8	71.2	56.6	44.9	37.1	30.2	25.4	25.4
127.5°	110.2	102.4	92.6	79.0	64.4	49.7	40.0	32.2	25.4	21.5	21.5
130°	100.4	91.7	81.9	69.2	55.6	42.9	33.2	27.3	21.5	18.5	17.6
132.5°	86.8	80.0	70.2	59.5	46.8	36.1	27.3	22.4	17.6	14.6	14.6
135°	73.1	66.3	58.5	47.8	38.0	28.3	21.5	17.6	14.6	11.7	11.7
137.5°	56.6	51.7	45.8	37.1	28.3	21.5	16.6	13.7	10.7	8.8	8.8
140°	42.9	40.0	35.1	27.3	21.5	16.6	12.7	10.7	8.8	6.8	5.9
142.5°	33.2	31.2	27.3	21.5	16.6	12.7	9.8	7.8	5.9	4.9	3.9
145°	25.4	23.4	20.5	15.6	11.7	8.8	6.8	4.9	3.9	2.9	2.0
147.5°	18.5	16.6	13.7	10.7	7.8	4.9	3.9	2.9	2.0	1.0	1.0
150°	9.8	8.8	7.8	5.9	3.9	2.0	1.0	1.0	0.0	0.0	0.0
152.5°	2.0	2.0	2.0	2.0	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)