

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: P314599

Luminaire Tested: **MPW-A7-D-U-ASYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPW-A7-D-U-ASYM-7027
Description: WOODBRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 2700K LIGHT ENGINE. ASYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6120 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U5 - G5

Input Watts (W): 69.7
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



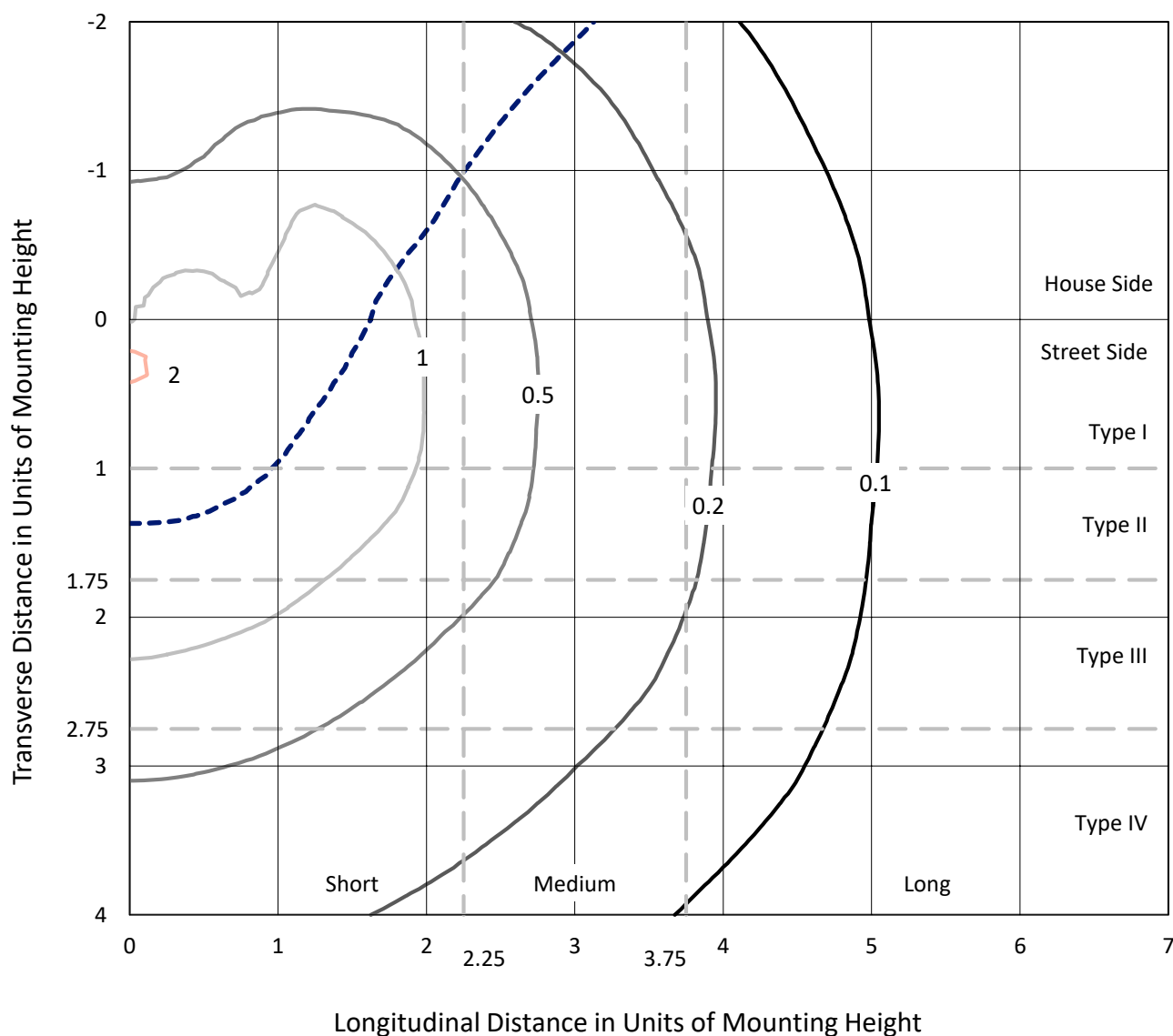
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

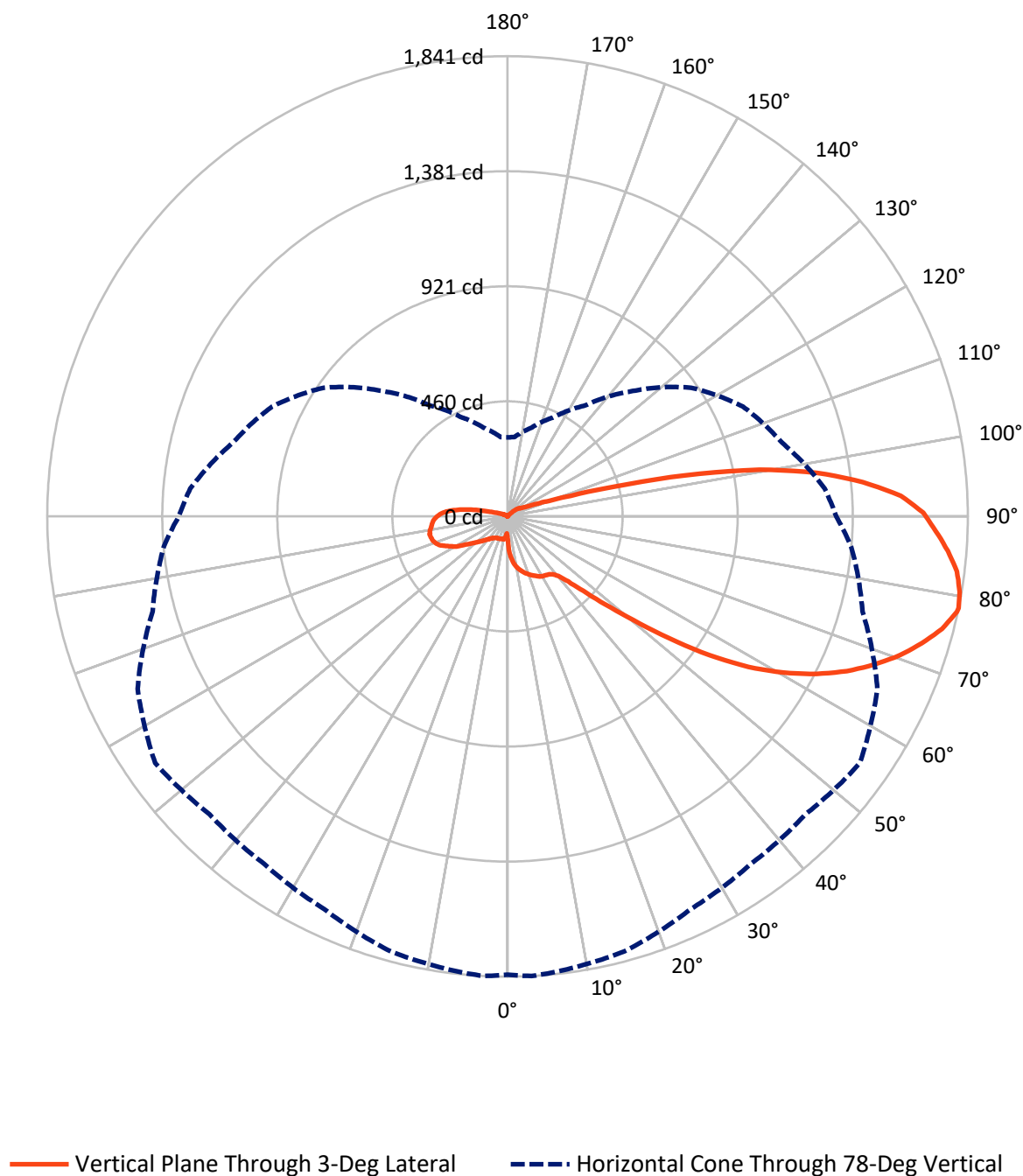


Based on 10 foot mounting height. Maximum calculated value = 2.1 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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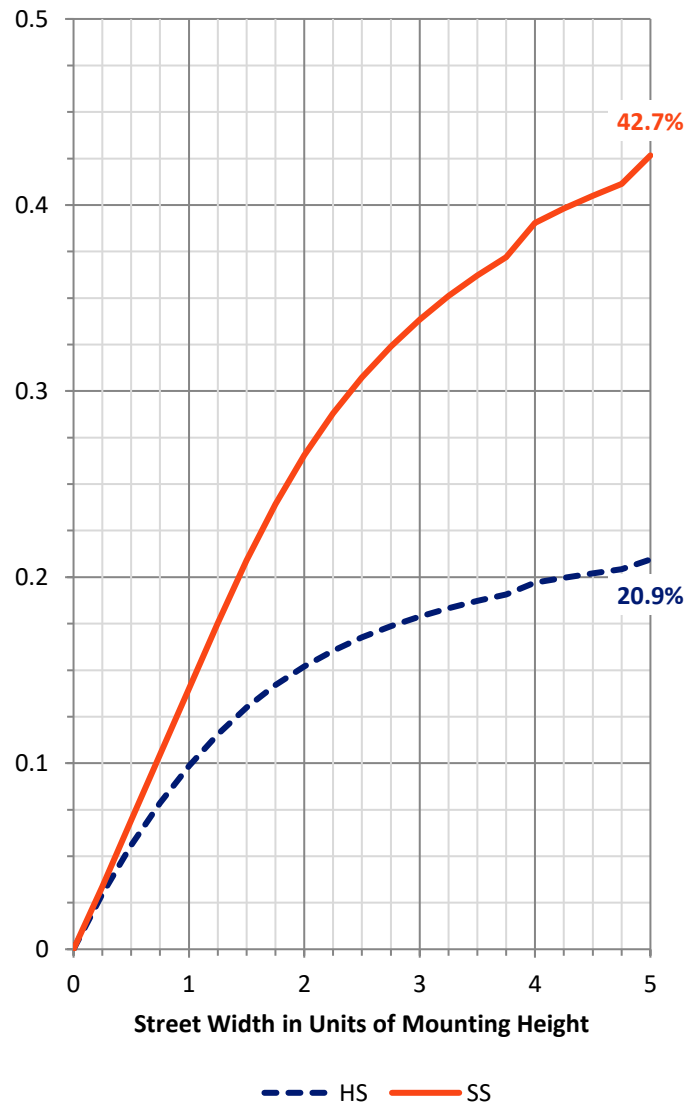
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1461.9	471.4	1933.3
	% Fixture	23.9	7.7	31.6
Street Side	Lumens	3149.0	1037.8	4186.7
	% Fixture	51.5	17.0	68.4
Total	Lumens	4610.9	1509.1	6120.0
	% Fixture	75.3	24.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.5	0.2
10°-20°	46.6	0.8
20°-30°	87.3	1.4
30°-40°	129.9	2.1
40°-50°	254.0	4.2
50°-60°	607.2	9.9
60°-70°	973.3	15.9
70°-80°	1234.6	20.2
80°-90°	1265.5	20.7
90°-100°	1023.5	16.7
100°-110°	371.0	6.1
110°-120°	75.2	1.2
120°-130°	33.2	0.5
130°-140°	6.2	0.1
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4610.9	75.3
0°-180°	6120.0	100.0

Coefficient of Utilization



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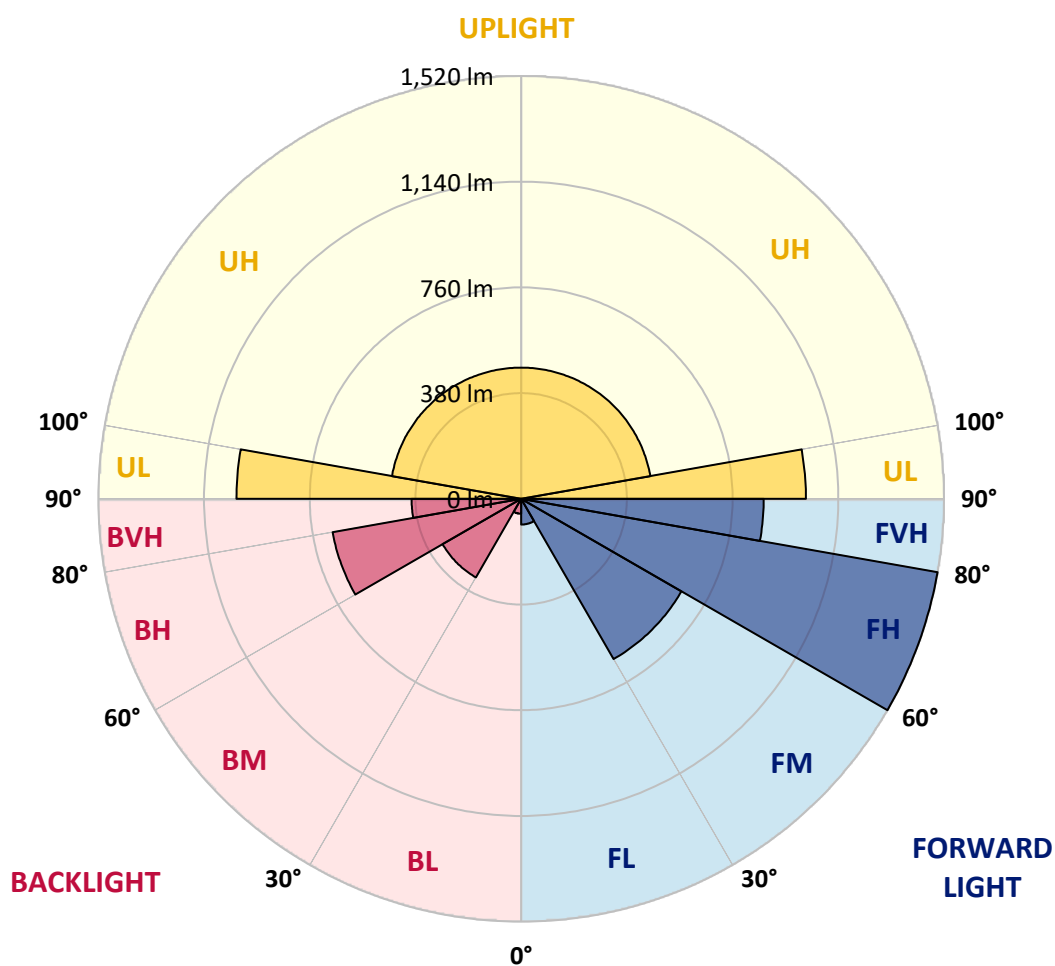
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	92.6	1.5			
FM	(30°-60°)	665.0	10.9			
FH	(60°-80°)	1519.8	24.8			G1/1800
FVH	(80°-90°)	871.5	14.2			G5
BL	(0°-30°)	53.7	0.9	B0/110		
BM	(30°-60°)	326.1	5.3	B1/1000		
BH	(60°-80°)	688.1	11.2	B2/1000		G2/1000
BVH	(80°-90°)	394.0	6.4			G3/500
UL	(90°-100°)	1023.5	16.7		U5	
UH	(100°-180°)	471.4	7.7		U3/500	

BUG Rating: B2-U5-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
2.5°	146.7	143.9	143.9	142.1	140.2	134.6	131.9	126.3	119.8	112.4	105.9
5°	172.7	170.9	170.9	169.9	169.0	164.4	159.7	152.3	143.0	133.7	122.6
7.5°	192.2	192.2	191.3	190.4	187.6	182.0	176.4	169.0	159.7	151.4	142.1
10°	208.0	208.0	208.0	205.2	201.5	196.8	189.4	181.1	170.9	161.6	151.4
12.5°	219.1	219.1	219.1	215.4	211.7	207.1	198.7	190.4	180.1	170.9	160.6
15°	231.2	230.3	231.2	224.7	221.0	216.3	208.0	200.6	190.4	182.0	171.8
17.5°	239.6	239.6	238.6	235.8	231.2	225.6	217.3	209.8	200.6	191.3	181.1
20°	247.9	247.9	247.0	244.2	240.5	234.9	227.5	218.2	209.8	200.6	189.4
22.5°	255.3	256.3	255.3	252.6	248.8	244.2	237.7	228.4	219.1	208.9	197.8
25°	263.7	263.7	264.6	261.8	257.2	252.6	246.1	237.7	228.4	217.3	204.3
27.5°	272.1	272.1	272.1	269.3	263.7	259.1	251.6	244.2	234.0	221.9	208.9
30°	276.7	277.6	276.7	274.8	269.3	263.7	256.3	247.9	237.7	224.7	211.7
32.5°	280.4	280.4	280.4	277.6	272.1	266.5	259.1	248.8	238.6	226.6	212.6
35°	285.1	285.1	284.1	281.3	276.7	271.1	262.8	253.5	242.3	230.3	215.4
37.5°	293.4	293.4	292.5	289.7	285.1	281.3	273.9	264.6	254.4	242.3	224.7
40°	314.8	313.8	312.9	312.0	308.3	308.3	302.7	294.3	282.3	271.1	248.8
42.5°	358.4	355.6	355.6	355.6	353.8	356.6	354.7	346.3	334.3	319.4	292.5
45°	430.8	425.3	425.3	423.4	427.1	428.1	428.1	419.7	404.8	386.3	353.8
47.5°	533.9	524.6	526.5	520.0	517.2	526.5	528.3	514.4	506.1	475.4	430.8
50°	663.0	650.9	656.5	646.3	635.1	647.2	652.8	644.4	632.3	592.4	541.3
52.5°	811.5	808.8	800.4	787.4	788.3	794.8	799.5	815.3	791.1	740.0	677.8
55°	983.3	980.5	977.8	949.9	950.8	950.8	959.2	975.0	954.5	879.3	818.0
57.5°	1144.9	1136.5	1138.4	1105.0	1096.6	1076.2	1088.2	1107.7	1071.5	985.2	917.4
60°	1274.9	1268.4	1263.7	1235.0	1221.0	1193.2	1189.5	1213.6	1172.7	1069.7	993.5
62.5°	1390.0	1388.2	1381.7	1340.8	1329.7	1289.7	1282.3	1305.5	1253.5	1138.4	1061.3
65°	1499.6	1492.2	1472.7	1439.2	1424.4	1377.0	1376.1	1402.1	1345.5	1218.2	1131.0
67.5°	1586.9	1582.2	1580.4	1528.4	1499.6	1456.9	1449.4	1484.7	1418.8	1273.0	1186.7
70°	1664.9	1664.9	1659.3	1617.5	1573.9	1535.8	1525.6	1567.4	1492.2	1349.2	1259.1
72.5°	1736.4	1733.6	1730.8	1693.7	1637.9	1596.2	1583.2	1631.4	1546.0	1391.9	1304.6
75°	1788.4	1795.8	1789.3	1755.9	1694.6	1650.9	1639.8	1685.3	1597.1	1443.9	1353.8
77.5°	1827.4	1837.6	1831.1	1797.6	1728.9	1689.0	1678.8	1717.8	1628.7	1467.1	1380.7
78°	1833.9	1841.3	1835.7	1802.3	1733.6	1697.4	1685.3	1720.6	1632.4	1469.9	1379.8
80°	1830.1	1833.9	1832.0	1804.1	1730.8	1696.4	1677.9	1712.2	1624.9	1459.7	1368.7
82.5°	1808.8	1811.6	1811.6	1787.4	1702.0	1678.8	1663.0	1701.1	1611.9	1452.2	1379.8
85°	1761.4	1767.0	1768.9	1751.2	1666.7	1643.5	1624.9	1661.2	1565.5	1412.3	1332.5
87.5°	1715.9	1715.0	1715.0	1701.1	1621.2	1603.6	1586.9	1620.3	1532.1	1382.6	1312.0
90°	1662.1	1663.0	1665.8	1650.0	1570.2	1554.4	1536.7	1576.7	1490.3	1357.5	1292.5
92.5°	1572.9	1575.7	1574.8	1561.8	1488.4	1475.4	1459.7	1494.9	1415.1	1284.2	1223.8
95°	1422.5	1428.1	1426.2	1416.9	1360.3	1339.0	1324.1	1364.0	1290.7	1173.7	1124.5
97.5°	1243.3	1250.7	1249.8	1239.6	1193.2	1184.8	1167.2	1207.1	1145.8	1046.5	1004.7
100°	1012.1	1025.1	1019.5	1013.0	988.9	985.2	979.6	1020.5	974.0	895.1	858.0
102.5°	715.0	728.0	722.4	721.5	711.3	725.2	724.3	764.2	732.6	672.3	641.6
105°	437.3	443.8	439.2	433.6	424.3	433.6	423.4	431.8	409.5	366.8	346.3
107.5°	260.9	265.6	262.8	257.2	250.7	251.6	245.1	246.1	233.1	211.7	200.6



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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	175.5	177.4	176.4	170.9	167.1	168.1	165.3	165.3	160.6	149.5	142.1
112.5°	129.1	130.0	130.9	125.4	123.5	123.5	123.5	123.5	120.7	114.2	108.6
115°	99.4	100.3	100.3	96.6	94.7	95.6	95.6	96.6	95.6	91.0	87.3
117.5°	79.9	79.9	79.9	77.1	75.2	76.1	76.1	77.1	77.1	74.3	71.5
120°	66.9	67.8	67.8	65.9	64.1	64.1	64.1	64.1	65.0	63.1	60.4
122.5°	60.4	60.4	60.4	58.5	56.6	55.7	56.6	56.6	56.6	55.7	53.9
125°	54.8	54.8	54.8	52.9	51.1	50.1	51.1	51.1	52.0	51.1	49.2
127.5°	46.4	47.4	47.4	45.5	42.7	42.7	43.6	44.6	45.5	45.5	43.6
130°	34.4	35.3	35.3	34.4	31.6	31.6	33.4	34.4	36.2	36.2	34.4
132.5°	23.2	22.3	22.3	21.4	19.5	20.4	21.4	23.2	25.1	25.1	24.1
135°	3.7	2.8	2.8	2.8	2.8	2.8	4.6	4.6	6.5	7.4	7.4
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	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	0.9	0.9	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.9	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.0	0.0
170°	0.9	0.9	0.9	0.0	0.9	0.9	0.0	0.9	0.9	0.0	0.0
172.5°	0.0	0.9	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
175°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
177.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
2.5°	103.1	100.3	93.8	89.1	82.6	78.9	74.3	70.6	68.7	67.8	67.8
5°	118.9	114.2	105.9	100.3	92.9	88.2	84.5	81.7	79.9	79.9	79.9
7.5°	137.4	130.9	120.7	111.4	104.9	100.3	96.6	92.9	90.1	89.1	88.2
10°	146.7	142.1	132.8	124.4	115.1	108.6	102.1	97.5	93.8	92.9	91.9
12.5°	155.1	149.5	139.3	130.9	120.7	112.4	104.9	98.4	93.8	91.9	91.0
15°	166.2	159.7	148.6	137.4	127.2	117.0	108.6	100.3	94.7	92.9	91.9
17.5°	175.5	169.0	156.9	145.8	133.7	122.6	112.4	103.1	96.6	94.7	93.8
20°	183.9	176.4	163.4	152.3	138.4	126.3	114.2	104.9	97.5	94.7	94.7
22.5°	191.3	183.9	170.9	157.9	143.0	129.1	117.0	105.9	98.4	95.6	94.7
25°	197.8	190.4	176.4	162.5	146.7	131.9	118.9	107.7	99.4	95.6	94.7
27.5°	202.4	195.0	181.1	166.2	150.4	134.6	121.6	109.6	101.2	96.6	96.6
30°	205.2	198.7	183.9	169.0	153.2	137.4	123.5	111.4	103.1	98.4	98.4
32.5°	206.1	199.6	185.7	170.9	156.0	140.2	126.3	114.2	105.9	101.2	101.2
35°	208.0	201.5	188.5	173.6	158.8	143.9	130.0	117.9	109.6	105.9	104.9
37.5°	216.3	209.8	195.0	179.2	163.4	148.6	134.6	122.6	114.2	110.5	110.5
40°	240.5	231.2	211.7	194.1	174.6	157.9	142.1	129.1	120.7	117.9	117.0
42.5°	279.5	270.2	246.1	221.0	196.8	175.5	154.1	138.4	129.1	125.4	125.4
45°	338.9	326.8	294.3	265.6	231.2	202.4	171.8	151.4	140.2	135.6	134.6
47.5°	416.0	401.1	362.1	318.5	276.7	239.6	196.8	168.1	153.2	146.7	145.8
50°	519.1	504.2	451.3	390.9	339.8	283.2	227.5	189.4	168.1	158.8	156.9
52.5°	650.0	634.2	564.6	486.6	420.6	342.6	263.7	212.6	185.7	173.6	171.8
55°	785.5	767.9	682.5	585.0	514.4	409.5	305.5	245.1	208.9	191.3	187.6
57.5°	881.2	861.7	767.0	658.3	590.5	461.5	347.3	276.7	235.8	211.7	209.8
60°	950.8	930.4	829.2	720.5	642.5	500.5	384.4	302.7	260.9	237.7	236.8
62.5°	1013.0	996.3	884.9	776.3	683.4	533.0	417.8	334.3	285.1	258.1	250.7
65°	1079.9	1053.0	934.1	825.5	728.9	570.1	438.3	363.1	306.4	276.7	270.2
67.5°	1136.5	1107.7	995.4	884.9	772.5	599.8	465.2	389.1	332.4	295.3	293.4
70°	1207.1	1174.6	1040.0	930.4	813.4	637.9	492.1	404.8	347.3	311.1	299.9
72.5°	1248.0	1213.6	1084.5	976.8	843.1	669.5	510.7	412.3	357.5	318.5	307.3
75°	1294.4	1257.2	1107.7	1011.2	872.8	693.6	527.4	423.4	364.9	321.3	311.1
77.5°	1314.8	1275.8	1144.0	1035.3	898.8	708.5	539.5	433.6	365.8	321.3	318.5
78°	1314.8	1274.0	1137.5	1039.0	897.0	709.4	541.3	437.3	366.8	318.5	315.7
80°	1306.5	1265.6	1127.2	1037.2	890.5	707.5	543.2	443.8	363.1	314.8	316.6
82.5°	1308.3	1273.0	1123.5	1031.6	887.7	706.6	538.6	437.3	356.6	307.3	310.1
85°	1260.0	1226.6	1092.9	1004.7	862.6	697.3	532.1	429.0	352.8	301.8	304.6
87.5°	1246.1	1211.7	1068.7	987.0	840.3	678.8	521.8	422.5	344.5	295.3	299.0
90°	1220.1	1186.7	1040.0	957.3	816.2	654.6	497.7	403.0	331.5	283.2	285.1
92.5°	1153.2	1122.6	983.3	905.3	772.5	624.9	473.6	382.6	312.9	269.3	269.3
95°	1067.8	1040.9	910.0	841.3	715.9	574.8	435.5	351.9	286.0	247.0	245.1
97.5°	949.9	924.8	810.6	746.5	638.8	509.8	380.7	305.5	247.0	208.9	208.9
100°	797.6	787.4	682.5	625.8	531.1	416.9	312.9	245.1	199.6	167.1	164.4
102.5°	596.1	574.8	489.3	442.9	375.1	289.7	214.5	169.9	143.0	120.7	116.1
105°	311.1	315.7	262.8	241.4	207.1	167.1	130.0	105.9	90.1	78.9	75.2
107.5°	185.7	181.1	158.8	144.9	126.3	103.1	82.6	68.7	59.4	52.9	51.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	132.8	130.9	114.2	103.1	90.1	73.4	58.5	49.2	42.7	38.1	37.1
112.5°	102.1	100.3	88.2	78.9	67.8	54.8	43.6	36.2	31.6	27.9	27.9
115°	82.6	80.8	71.5	62.2	52.9	42.7	34.4	27.9	24.1	21.4	21.4
117.5°	67.8	65.9	57.6	51.1	42.7	34.4	26.9	22.3	18.6	16.7	16.7
120°	57.6	55.7	49.2	42.7	35.3	28.8	22.3	17.6	15.8	13.9	13.9
122.5°	52.0	49.2	43.6	37.1	30.6	24.1	18.6	14.9	13.0	11.1	11.1
125°	47.4	45.5	39.9	33.4	26.0	21.4	15.8	12.1	10.2	9.3	8.4
127.5°	41.8	39.9	34.4	27.9	21.4	16.7	12.1	9.3	6.5	5.6	5.6
130°	33.4	30.6	26.0	20.4	14.9	11.1	8.4	5.6	3.7	3.7	2.8
132.5°	23.2	21.4	17.6	13.0	8.4	5.6	3.7	2.8	0.9	0.9	0.9
135°	7.4	6.5	3.7	3.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)