

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: P239879

Luminaire Tested: **UTLD-AF24-60-D-U-T3-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-15)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-60-D-U-T3-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4899 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

Input Watts (W): 64
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

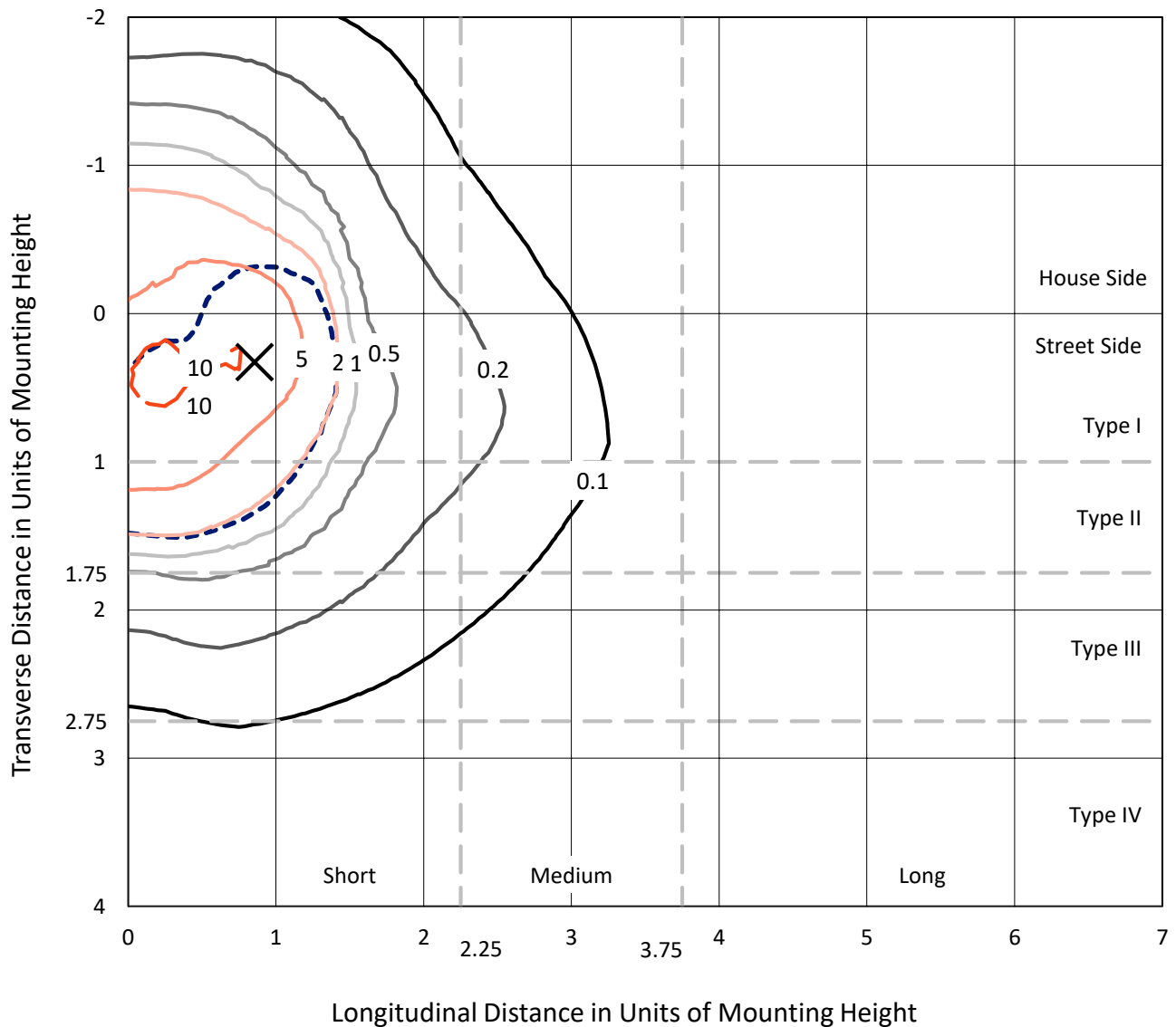


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

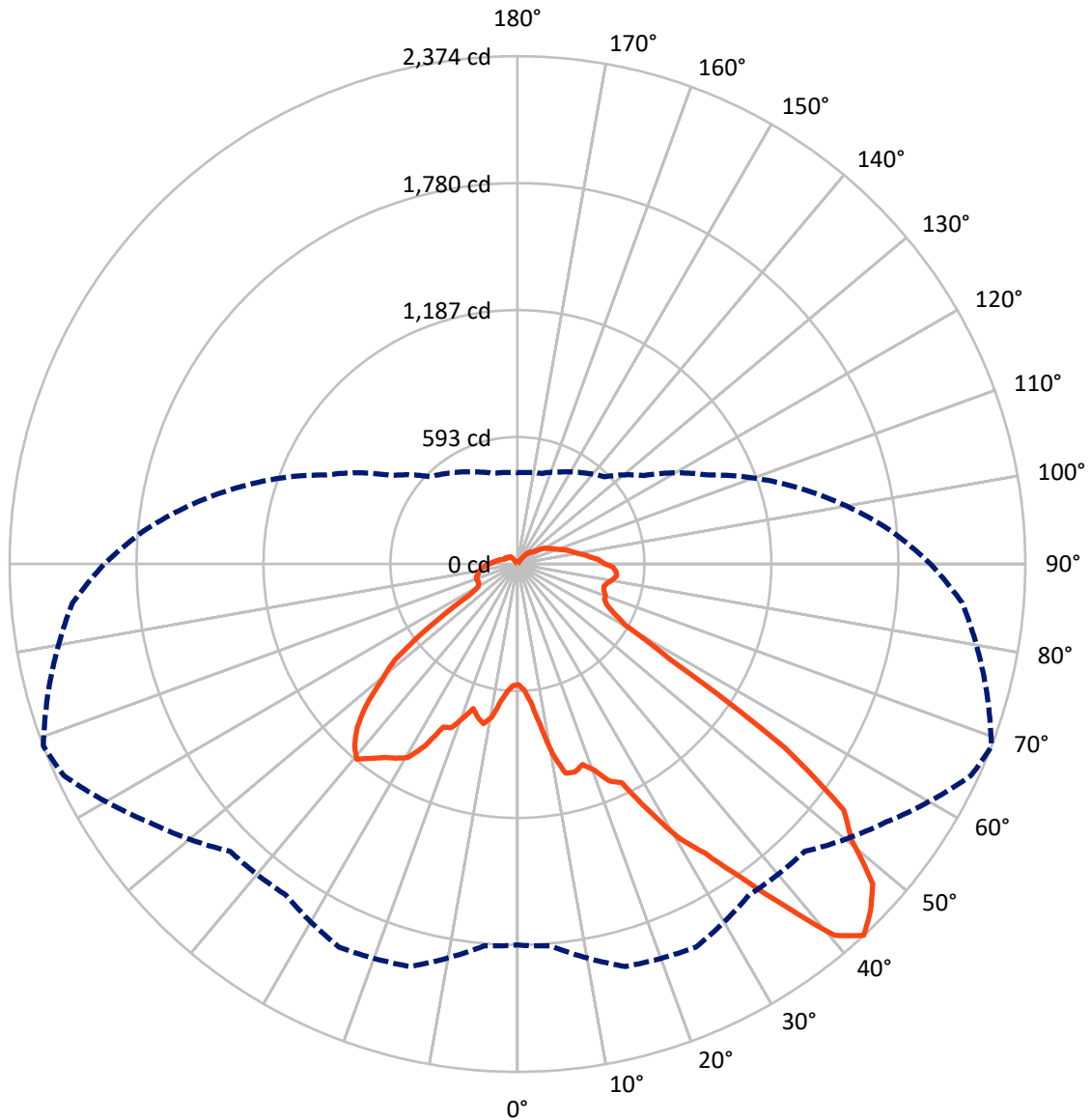


Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 42.5-Deg Vertical

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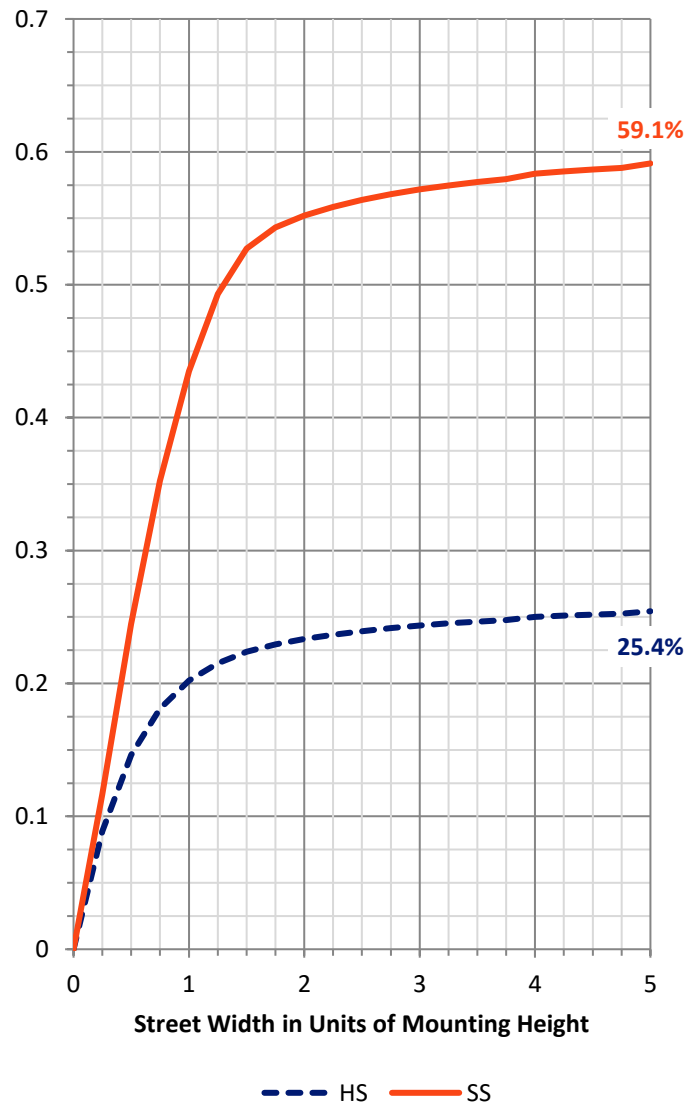
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1290.8	155.6	1446.4
	% Fixture	26.3	3.2	29.5
Street Side	Lumens	2991.1	461.5	3452.6
	% Fixture	61.1	9.4	70.5
Total	Lumens	4281.9	617.1	4899.0
	% Fixture	87.4	12.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	1.3
10°-20°	235.7	4.8
20°-30°	482.0	9.8
30°-40°	810.7	16.5
40°-50°	1073.2	21.9
50°-60°	773.9	15.8
60°-70°	304.0	6.2
70°-80°	273.9	5.6
80°-90°	267.0	5.4
90°-100°	225.2	4.6
100°-110°	160.1	3.3
110°-120°	107.9	2.2
120°-130°	70.6	1.4
130°-140°	42.2	0.9
140°-150°	10.7	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4281.9	87.4
0°-180°	4899.0	100.0

Coefficient of Utilization



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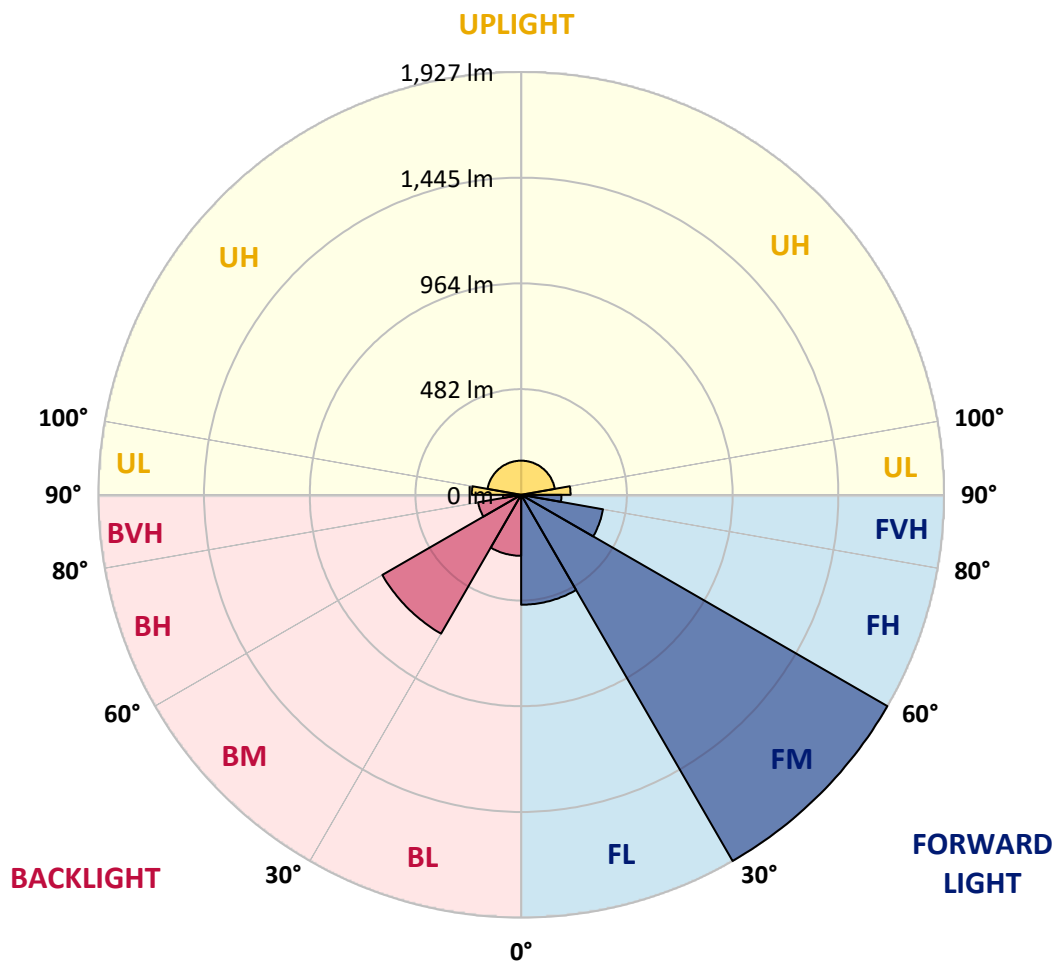
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	501.1	10.2			
FM (30°-60°)	1927.3	39.3			
FH (60°-80°)	378.8	7.7			G0/660
FVH (80°-90°)	184.0	3.8			G2/225
BL (0°-30°)	278.0	5.7	B1/500		
BM (30°-60°)	730.6	14.9	B1/1000		
BH (60°-80°)	199.1	4.1	B1/500		G1/500
BVH (80°-90°)	83.0	1.7			G1/100
UL (90°-100°)	225.2	4.6		U3/500	
UH (100°-180°)	155.6	3.2		U3/500	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	563.7	563.7	563.7	563.7	563.7	563.7	563.7	563.7	563.7	563.7	563.7
2.5°	600.4	597.1	595.7	595.7	593.7	593.1	594.4	592.4	589.1	588.4	584.4
5°	642.4	641.1	640.4	645.8	650.4	651.8	650.4	650.4	646.4	646.4	633.8
7.5°	709.8	707.8	713.1	726.5	731.1	745.2	761.8	751.8	754.5	747.2	723.1
10°	787.9	784.5	809.2	827.2	868.6	885.9	907.3	905.3	901.3	888.6	848.6
12.5°	858.6	856.6	888.6	954.0	1009.3	1065.4	1070.0	1024.0	1003.3	958.0	907.9
15°	946.6	948.6	997.3	1090.1	1172.1	1194.8	1138.1	1047.4	1008.7	962.0	887.9
17.5°	1088.7	1095.4	1178.1	1283.5	1338.2	1246.8	1125.4	1021.3	984.6	933.9	862.6
20°	1171.4	1175.4	1288.8	1431.6	1447.6	1299.5	1173.4	1061.4	1029.3	989.3	930.6
22.5°	1220.8	1235.5	1365.6	1540.3	1531.0	1422.3	1247.5	1141.4	1101.4	1046.7	998.7
25°	1300.2	1310.9	1435.6	1604.4	1563.0	1462.3	1313.5	1172.1	1132.7	1092.7	1044.7
27.5°	1407.6	1417.6	1557.7	1655.1	1611.7	1515.7	1412.3	1321.5	1300.9	1294.2	1273.5
30°	1465.0	1471.6	1629.1	1711.1	1637.1	1592.4	1563.7	1491.0	1485.0	1471.6	1424.3
32.5°	1497.7	1523.0	1705.8	1753.2	1656.4	1651.1	1668.4	1623.7	1611.7	1589.0	1534.3
35°	1527.0	1539.7	1711.8	1783.8	1687.8	1685.1	1804.5	1825.2	1798.5	1751.8	1621.1
37.5°	1753.2	1759.2	1877.2	1851.9	1729.1	1743.8	1940.6	2048.0	2024.0	1966.0	1875.9
40°	1875.9	1886.6	1996.0	1943.3	1816.5	1833.2	2038.7	2261.5	2282.8	2280.8	2202.1
42.5°	1780.5	1791.8	1947.3	1975.3	1887.9	1899.3	2102.7	2339.5	2373.6	2268.8	2087.4
45°	2091.4	2100.1	2187.4	1982.6	1839.2	1882.6	2052.7	2282.8	2313.5	2282.8	2127.4
47.5°	2090.7	2080.0	2152.8	2003.3	1835.9	1806.5	1943.9	2174.1	2234.8	2164.8	1996.0
50°	1837.9	1837.2	2016.7	1930.6	1799.9	1731.8	1824.5	2006.7	2021.3	1939.3	1713.1
52.5°	1605.1	1603.7	1811.2	1767.2	1681.8	1615.1	1672.4	1853.9	1909.9	1837.9	1649.1
55°	1398.9	1456.3	1638.4	1544.4	1509.0	1443.0	1500.3	1545.0	1516.3	1316.2	887.9
57.5°	847.2	910.6	1148.1	1216.1	1224.1	1176.8	1046.7	893.9	839.2	670.4	400.3
60°	394.9	410.3	602.4	733.1	894.6	817.9	661.8	576.4	576.4	506.3	347.6
62.5°	278.2	288.9	395.6	473.0	535.7	528.3	469.6	481.7	505.7	474.3	334.9
65°	261.5	268.2	352.2	375.6	399.6	404.3	396.3	433.0	458.3	454.3	339.6
67.5°	242.8	251.5	321.5	336.9	355.6	364.2	370.2	412.9	439.6	454.3	352.9
70°	220.8	230.8	296.9	318.2	336.2	356.2	363.6	409.6	437.0	451.6	357.6
72.5°	200.1	208.8	264.2	290.9	322.9	346.2	375.6	403.6	422.3	437.6	360.2
75°	180.1	190.1	236.8	267.5	304.9	348.9	384.3	404.9	417.6	429.6	356.9
77.5°	166.8	177.5	214.1	249.5	294.2	354.9	394.9	421.6	428.9	431.0	352.9
80°	154.8	166.8	205.5	242.8	291.5	357.6	407.6	439.6	449.6	454.3	375.6
82.5°	163.4	174.1	207.5	252.8	300.2	356.9	404.3	455.0	466.3	463.6	382.9
85°	184.8	193.5	234.2	276.8	313.5	350.9	392.3	447.6	463.6	477.6	405.6
87.5°	224.8	228.8	258.2	297.5	327.5	339.6	380.9	433.0	447.6	452.3	394.9
90°	246.2	250.2	284.9	317.5	326.9	330.9	339.6	391.6	402.3	420.9	377.6
92.5°	270.8	270.8	306.9	326.2	326.2	309.5	315.5	362.2	380.3	390.9	350.9
95°	294.9	293.5	313.5	324.9	307.5	284.2	294.2	330.9	342.2	353.6	326.2
97.5°	302.2	301.5	313.5	306.9	278.2	256.2	268.8	300.2	312.2	324.2	296.2
100°	294.2	290.9	294.2	279.5	252.8	236.2	243.5	269.5	282.2	292.2	266.8
102.5°	276.8	274.8	276.2	261.5	233.5	213.5	223.5	250.8	260.2	268.2	245.5
105°	268.8	265.5	259.5	238.2	210.8	196.8	205.5	232.8	241.5	257.5	238.8
107.5°	228.8	226.1	221.5	210.1	196.1	185.5	192.8	212.1	217.5	225.5	208.1
110°	197.5	196.1	194.8	192.1	183.5	176.1	180.1	190.8	197.5	203.5	186.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
112.5°	190.8	188.8	187.5	182.8	171.4	163.4	166.1	178.1	182.1	184.1	165.4
115°	182.1	180.1	172.8	166.1	158.1	154.1	154.8	164.8	167.4	168.8	157.4
117.5°	161.4	159.4	154.8	152.1	147.4	145.4	148.8	154.1	154.8	155.4	145.4
120°	149.4	148.8	146.1	141.4	138.1	133.4	138.8	144.1	146.1	148.1	141.4
122.5°	136.1	134.8	132.1	126.1	126.1	123.4	122.7	126.1	126.8	132.1	128.8
125°	120.1	118.7	116.1	110.7	117.4	117.4	112.7	105.4	107.4	112.1	109.4
127.5°	107.4	106.1	103.4	100.7	110.1	113.4	105.4	92.1	93.4	94.7	92.7
130°	105.4	104.1	100.7	96.1	98.7	108.7	94.7	84.1	86.1	87.4	86.1
132.5°	103.4	102.7	98.1	92.1	88.7	98.1	82.1	79.4	81.4	83.4	82.1
135°	96.7	96.1	92.1	83.4	74.0	78.7	65.4	69.4	72.7	75.4	74.0
137.5°	86.1	85.4	82.1	73.4	60.7	56.7	50.0	59.4	62.0	65.4	65.4
140°	69.4	68.7	65.4	56.7	42.7	30.0	32.0	45.4	48.0	52.0	52.7
142.5°	50.7	49.4	46.0	38.0	24.0	10.0	18.0	27.4	30.7	34.7	37.4
145°	34.7	34.0	29.4	22.7	11.3	1.3	8.0	16.7	18.7	21.3	24.0
147.5°	22.0	22.0	18.7	12.7	3.3	1.3	2.0	8.7	10.7	13.3	15.3
150°	13.3	13.3	10.0	4.0	0.7	0.7	0.7	1.3	3.3	6.0	8.0
152.5°	3.3	3.3	2.0	1.3	0.7	0.0	0.7	0.7	0.7	0.7	1.3
155°	1.3	1.3	1.3	0.7	0.0	0.0	0.0	0.7	0.7	0.7	0.7
157.5°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.7	0.7	0.7	0.0	0.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	563.7	563.7	563.7	563.7	563.7	563.7	563.7	563.7	563.7	563.7	563.7
2.5°	582.4	578.4	573.0	565.7	558.4	551.0	543.7	539.7	537.7	536.4	535.7
5°	630.4	621.7	607.7	588.4	564.4	550.4	540.4	528.3	520.3	517.7	515.7
7.5°	715.1	701.1	673.1	631.7	602.4	561.0	525.7	503.0	486.3	477.0	477.0
10°	828.5	808.5	759.8	703.1	627.7	555.0	500.3	459.0	439.6	431.6	429.6
12.5°	878.6	859.2	801.9	735.8	655.8	571.0	501.7	452.3	428.9	419.6	420.9
15°	853.2	826.5	777.2	715.1	652.4	599.1	541.0	479.6	439.6	428.9	432.3
17.5°	827.9	800.5	747.8	679.1	617.7	582.4	541.7	500.3	462.3	447.0	444.3
20°	901.9	881.9	810.5	732.5	640.4	551.0	522.3	503.7	491.0	491.7	485.7
22.5°	972.6	945.3	879.9	788.5	689.1	611.1	564.4	539.7	525.7	531.7	532.4
25°	1020.0	999.3	902.6	793.2	710.5	652.4	585.1	550.4	527.0	527.0	524.3
27.5°	1260.8	1209.5	1056.0	888.6	765.2	669.1	587.7	547.7	518.3	509.7	511.0
30°	1386.9	1336.2	1160.8	957.3	827.9	709.1	595.1	533.0	525.7	519.7	521.7
32.5°	1495.0	1420.3	1212.8	975.3	816.5	715.1	611.1	536.4	501.0	495.0	497.7
35°	1548.4	1465.0	1254.2	991.3	821.9	689.8	591.7	522.3	499.7	493.7	495.7
37.5°	1794.5	1669.8	1319.5	1015.3	820.5	656.4	565.7	509.7	467.6	449.6	449.6
40°	2077.4	1893.9	1433.6	1014.0	769.8	627.7	537.0	485.0	451.6	437.6	437.0
42.5°	1930.6	1755.8	1366.9	984.0	720.5	575.7	521.0	474.3	438.3	428.9	426.9
45°	1992.0	1805.2	1318.9	899.9	646.4	534.4	483.0	450.3	408.9	387.6	386.9
47.5°	1797.2	1647.1	1220.8	793.2	582.4	469.6	437.6	416.3	390.3	372.2	370.2
50°	1559.0	1407.6	1027.3	703.1	496.3	416.3	394.3	383.6	357.6	336.9	338.2
52.5°	1489.6	1306.2	895.3	613.7	426.9	362.9	352.2	340.2	314.2	290.2	292.9
55°	738.5	611.7	544.4	477.0	358.2	315.5	310.9	303.5	277.5	256.8	257.5
57.5°	344.2	296.9	260.2	276.8	270.2	274.2	272.2	267.5	242.8	213.5	211.5
60°	308.2	264.2	220.8	209.5	222.1	239.5	238.2	223.5	192.1	157.4	153.4
62.5°	297.5	252.8	214.1	197.5	202.8	214.1	206.1	187.5	162.1	130.1	129.4
65°	302.9	255.5	213.5	192.8	196.8	201.5	190.1	176.8	161.4	139.4	139.4
67.5°	314.2	265.5	218.1	190.8	192.8	197.5	186.8	177.5	169.4	154.8	154.8
70°	317.5	270.2	220.8	191.5	189.5	193.5	186.1	177.5	172.8	160.8	160.1
72.5°	318.9	272.8	219.5	188.1	183.5	186.8	181.5	177.5	175.4	166.1	164.8
75°	312.9	270.2	212.8	180.8	176.1	177.5	176.1	175.4	178.1	172.1	170.1
77.5°	305.5	266.2	207.5	172.8	167.4	168.1	166.8	168.8	171.4	167.4	164.1
80°	320.9	277.5	208.1	166.8	156.8	153.4	154.1	156.1	159.4	150.8	146.1
82.5°	326.2	278.2	198.8	153.4	140.8	136.1	137.4	142.8	145.4	137.4	132.8
85°	346.2	290.9	192.1	141.4	126.8	122.1	123.4	126.8	125.4	116.1	112.1
87.5°	338.2	282.2	180.1	127.4	115.4	111.4	112.1	113.4	108.7	96.7	93.4
90°	326.9	272.2	166.8	112.1	102.1	100.7	99.4	97.4	89.4	76.7	73.4
92.5°	306.2	254.2	154.8	101.4	90.7	90.1	88.1	84.1	76.7	64.0	60.7
95°	288.9	238.2	143.4	92.7	81.4	78.7	78.7	74.7	66.7	56.0	54.7
97.5°	260.2	216.8	132.1	85.4	72.7	70.0	69.4	66.7	60.7	52.7	52.0
100°	235.5	196.1	120.1	77.4	65.4	62.7	61.4	60.0	55.4	50.7	50.7
102.5°	218.1	181.5	112.1	70.7	58.7	56.0	56.0	54.7	52.0	48.7	48.7
105°	213.5	178.1	108.7	64.7	52.0	50.7	51.4	51.4	49.4	47.4	47.4
107.5°	185.5	153.4	93.4	57.4	47.4	46.0	46.7	47.4	46.7	46.0	46.0
110°	165.4	139.4	86.7	54.0	44.7	42.7	42.7	42.7	42.7	43.4	44.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	148.1	124.1	79.4	51.4	42.0	40.0	39.4	38.7	38.0	40.7	40.7
115°	141.4	120.7	77.4	50.0	40.0	38.0	36.0	34.7	33.4	35.4	36.0
117.5°	131.4	113.4	75.4	50.0	39.4	36.0	34.0	32.0	30.0	32.0	32.0
120°	128.8	112.7	76.7	50.7	38.0	33.4	31.4	28.7	27.4	29.4	30.0
122.5°	118.7	105.4	72.7	48.0	36.7	32.0	30.0	24.7	24.7	26.0	26.7
125°	100.7	89.4	62.7	43.4	34.7	32.0	29.4	22.0	22.7	24.0	24.0
127.5°	86.1	77.4	57.4	42.0	35.4	32.7	27.4	20.7	22.0	24.0	24.0
130°	81.4	74.0	58.0	44.0	36.7	33.4	22.7	18.0	21.3	23.3	23.3
132.5°	78.1	72.0	58.0	46.0	38.0	30.7	18.0	16.0	18.0	19.3	19.3
135°	70.7	66.7	55.4	44.0	34.7	24.0	14.7	14.0	16.7	18.0	18.0
137.5°	63.4	59.4	50.7	40.7	30.7	19.3	10.7	12.7	14.0	15.3	15.3
140°	52.0	49.4	42.0	33.4	22.7	10.7	8.0	10.0	12.0	13.3	13.3
142.5°	36.7	35.4	29.4	21.3	12.7	4.0	5.3	7.3	8.7	10.0	10.0
145°	24.0	22.7	18.7	13.3	5.3	1.3	3.3	4.7	6.7	7.3	7.3
147.5°	15.3	14.7	11.3	6.7	2.0	1.3	1.3	3.3	5.3	6.0	6.0
150°	7.3	6.7	4.7	2.0	1.3	0.7	0.7	1.3	3.3	4.0	4.0
152.5°	1.3	1.3	1.3	0.7	0.7	0.0	0.0	0.7	0.7	1.3	1.3
155°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.7	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	0.7	0.7	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)