

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: P239934

Luminaire Tested: **UTLD-AF24-70-D-U-T4W-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-16)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-70-D-U-T4W-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5399 lumens
Efficiency: N/A
Efficacy: 73.0 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): 74
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



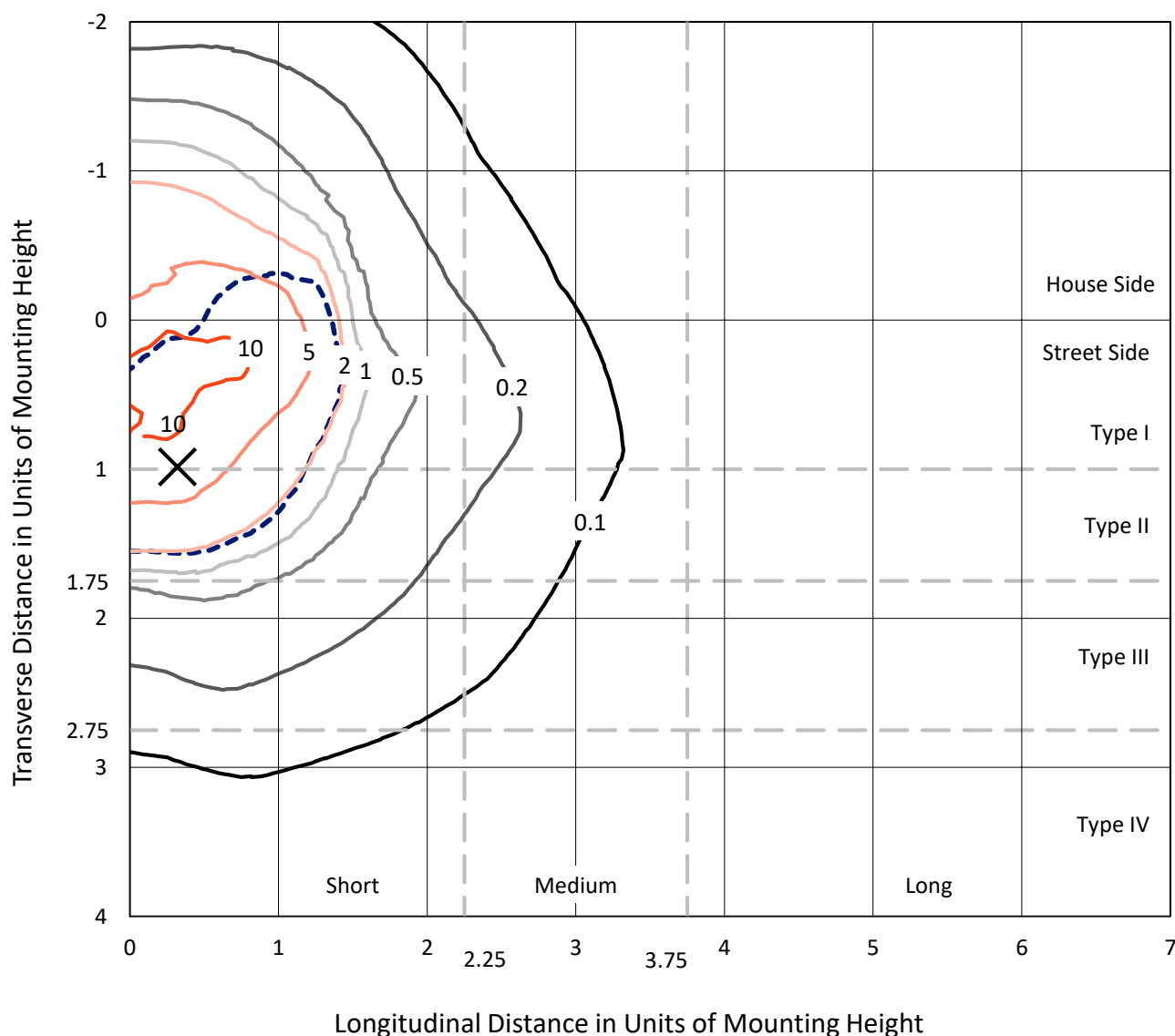
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

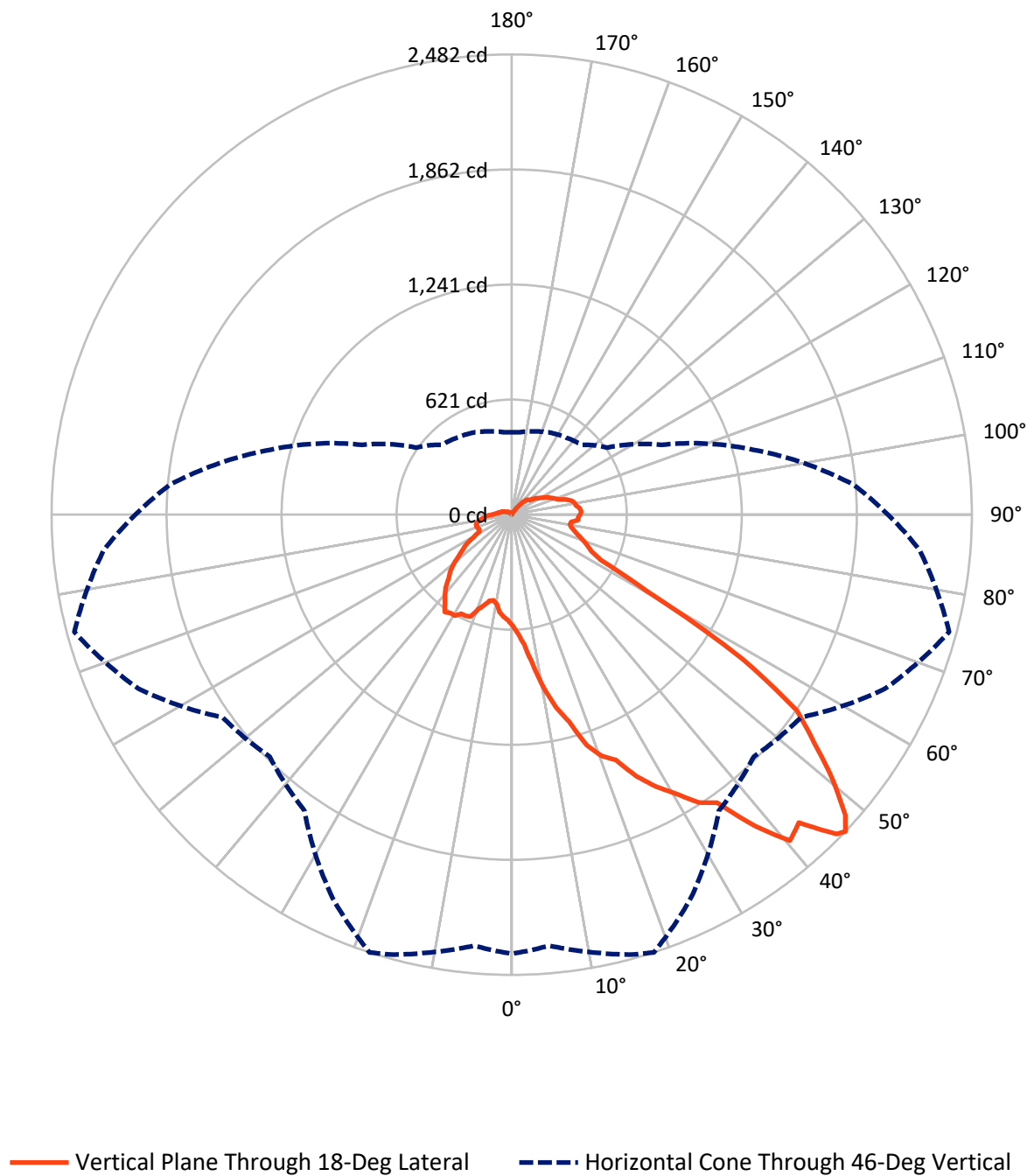


Based on 10 foot mounting height. Maximum calculated value = 13.2 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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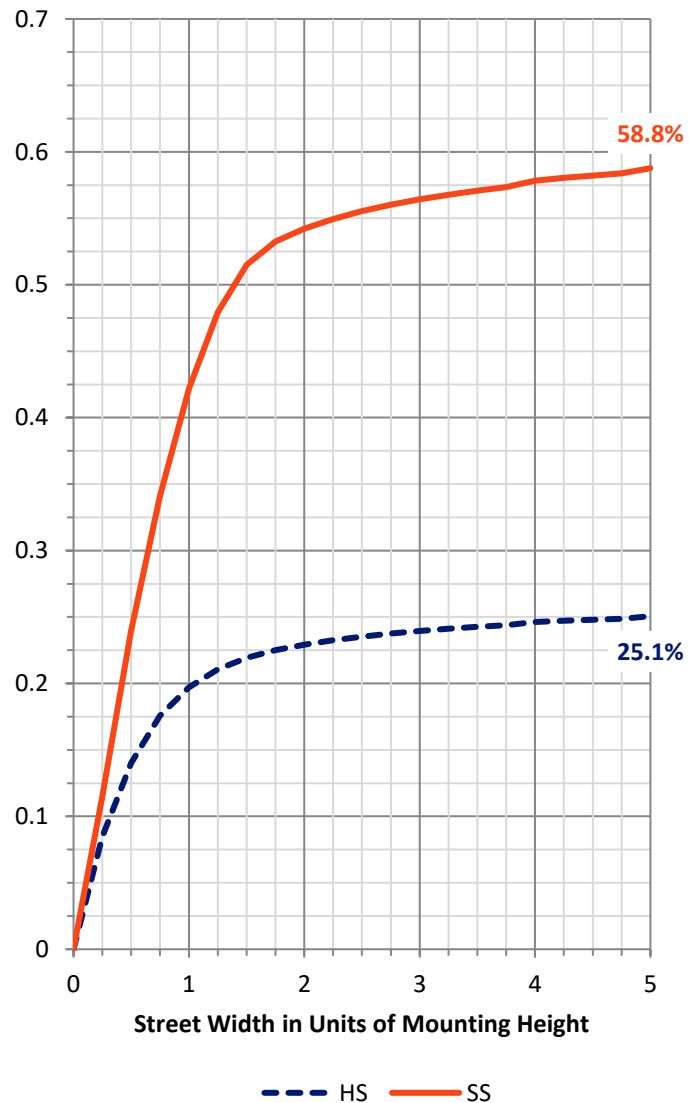
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1404.4	174.8	1579.2
	% Fixture	26.0	3.2	29.3
Street Side	Lumens	3295.6	524.1	3819.7
	% Fixture	61.0	9.7	70.7
Total	Lumens	4700.0	699.0	5399.0
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	1.2
10°-20°	261.4	4.8
20°-30°	531.6	9.8
30°-40°	870.2	16.1
40°-50°	1132.7	21.0
50°-60°	847.5	15.7
60°-70°	353.0	6.5
70°-80°	321.2	5.9
80°-90°	318.4	5.9
90°-100°	256.0	4.7
100°-110°	182.0	3.4
110°-120°	123.0	2.3
120°-130°	79.2	1.5
130°-140°	46.9	0.9
140°-150°	11.4	0.2
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4700.0	87.1
0°-180°	5399.0	100.0

Coefficient of Utilization



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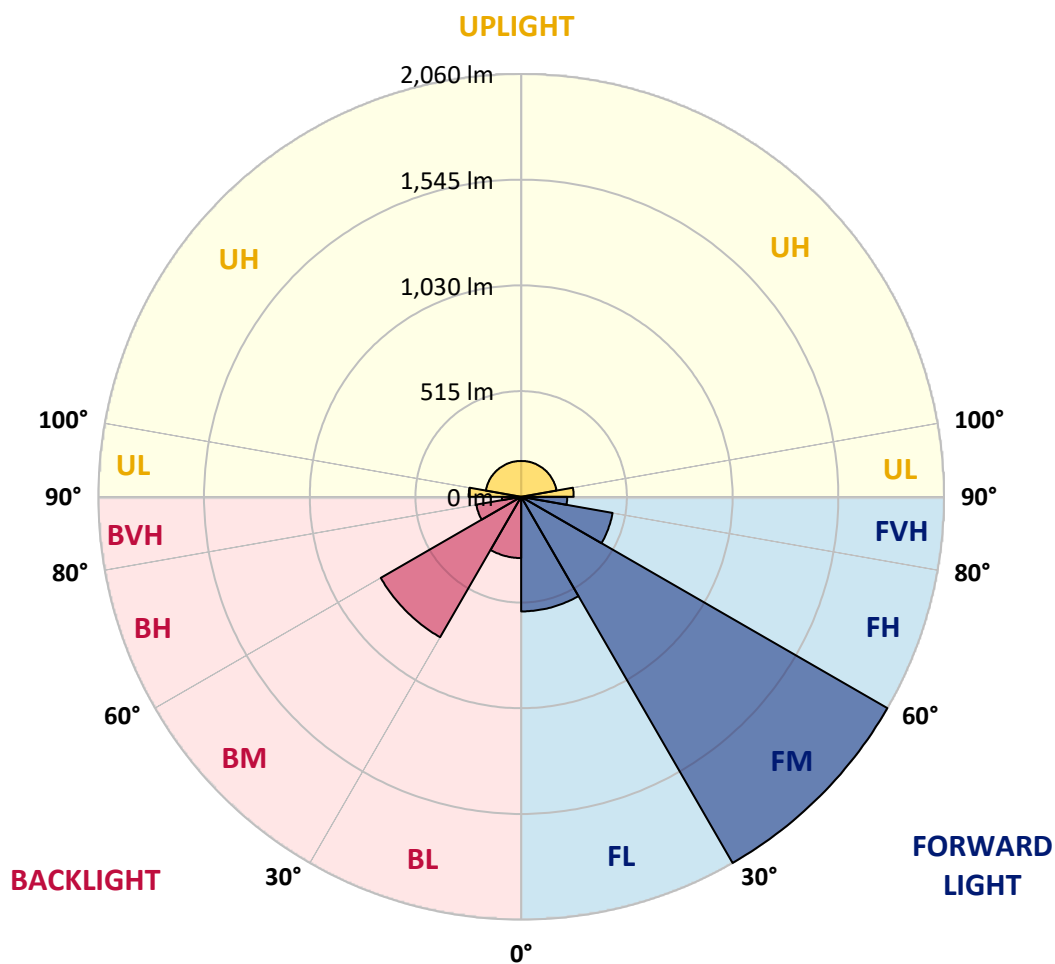
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	558.5	10.3			
FM	(30°-60°)	2060.5	38.2			
FH	(60°-80°)	452.2	8.4			G0/660
FVH	(80°-90°)	224.5	4.2			G2/225
BL	(0°-30°)	298.5	5.5	B1/500		
BM	(30°-60°)	790.0	14.6	B1/1000		
BH	(60°-80°)	222.0	4.1	B1/500		G1/500
BVH	(80°-90°)	93.9	1.7			G1/100
UL	(90°-100°)	256.0	4.7		U3/500	
UH	(100°-180°)	174.8	3.2		U3/500	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
0°	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0
2.5°	642.8	639.8	641.3	641.3	637.6	636.1	632.3	627.8	621.9	615.2	609.2
5°	706.2	704.0	703.2	702.5	701.8	692.0	680.9	671.1	660.7	649.5	633.8
7.5°	823.4	822.7	818.2	813.0	805.5	789.1	768.9	759.2	745.1	727.9	704.0
10°	969.8	959.3	949.6	949.6	934.7	928.7	922.7	908.5	899.6	875.7	841.4
12.5°	1053.4	1048.2	1068.3	1066.8	1086.2	1121.3	1133.3	1145.2	1090.7	1021.3	957.1
15°	1131.8	1131.8	1157.1	1157.9	1215.4	1293.0	1352.0	1294.5	1194.5	1082.5	996.6
17.5°	1239.3	1246.0	1282.6	1307.2	1384.8	1518.5	1478.2	1372.2	1222.8	1089.2	992.9
20°	1286.3	1301.2	1357.2	1389.3	1509.5	1635.7	1596.9	1472.2	1299.0	1146.7	1049.6
22.5°	1315.4	1325.9	1391.6	1437.1	1590.9	1697.6	1691.7	1565.5	1402.0	1211.6	1099.7
25°	1434.9	1441.6	1516.2	1563.3	1726.0	1760.4	1692.4	1605.1	1444.6	1246.7	1148.2
27.5°	1475.2	1475.9	1590.9	1661.8	1795.4	1783.5	1695.4	1658.8	1577.5	1421.4	1355.0
30°	1529.7	1528.2	1670.0	1746.2	1827.5	1776.8	1705.9	1738.0	1743.2	1616.3	1495.3
32.5°	1596.9	1590.9	1760.4	1851.4	1877.6	1775.3	1723.0	1777.5	1856.7	1725.3	1595.4
35°	1658.8	1664.1	1846.2	1908.2	1932.8	1784.2	1732.0	1851.4	2011.9	1910.4	1692.4
37.5°	2057.5	2051.5	2109.0	2130.6	2068.7	1814.9	1766.3	1943.3	2178.4	2134.4	1900.7
40°	2147.8	2127.7	2299.4	2312.1	2203.1	1923.1	1860.4	1998.5	2309.8	2388.2	2202.3
42.5°	2071.7	2066.4	2253.8	2271.0	2192.6	1996.3	1922.4	2043.3	2324.7	2388.9	2079.9
45°	2406.9	2379.2	2477.0	2456.9	2239.6	1964.9	1884.3	1993.3	2273.2	2453.2	2208.3
46°	2368.8	2333.7	2456.9	2482.3	2284.4	1949.2	1846.2	1905.2	2221.7	2442.7	2209.8
47.5°	2252.3	2255.3	2419.6	2421.0	2238.9	1951.5	1783.5	1852.2	2106.8	2309.1	1998.5
50°	1966.4	1932.8	2232.9	2242.6	2068.7	1867.1	1719.3	1750.7	1993.3	2117.2	1801.4
52.5°	1893.2	1867.1	2044.0	2042.6	1885.8	1738.7	1602.1	1634.9	1908.9	2050.0	1824.6
55°	1739.5	1730.5	1879.1	1866.4	1756.6	1580.4	1482.6	1502.8	1583.4	1528.2	909.3
57.5°	1155.7	1190.0	1446.8	1471.4	1472.2	1389.3	1266.9	1081.0	935.4	795.8	444.9
60°	471.8	511.4	797.3	834.6	889.1	1041.4	918.3	722.7	604.0	627.8	384.5
62.5°	356.1	371.0	532.3	539.0	559.9	633.8	626.4	524.1	515.9	568.1	368.0
65°	331.5	344.9	471.8	469.6	459.9	480.0	478.5	454.6	463.6	529.3	366.6
67.5°	313.5	327.0	438.2	439.0	430.8	434.5	437.5	425.5	446.4	514.4	376.3
70°	295.6	309.8	403.1	405.4	411.3	424.8	430.0	421.1	439.7	495.7	375.5
72.5°	274.0	289.7	370.3	374.0	386.0	416.6	434.5	432.3	434.5	468.1	374.0
75°	266.5	282.2	342.7	349.4	366.6	412.8	459.1	444.2	429.3	450.2	365.1
77.5°	233.7	251.6	313.5	328.5	366.6	424.8	475.6	470.3	442.7	438.2	355.4
80°	224.7	241.9	301.6	318.0	359.1	435.2	492.0	492.7	478.5	454.6	365.1
82.5°	226.2	242.6	304.6	323.3	370.3	442.7	478.5	497.2	498.7	468.8	376.3
85°	265.8	281.4	340.4	359.8	400.9	440.5	468.1	481.5	495.0	495.0	412.8
87.5°	283.7	297.9	342.7	359.8	399.4	445.7	441.2	463.6	477.0	494.2	425.5
90°	300.1	309.1	355.4	371.8	392.7	430.0	418.1	411.3	422.5	440.5	398.7
92.5°	312.1	320.3	361.3	375.5	393.4	401.6	383.7	364.3	391.9	406.1	371.0
95°	333.7	341.2	362.8	368.0	365.8	373.3	345.7	338.2	350.1	365.8	343.4
97.5°	318.8	324.0	344.9	350.9	349.4	338.2	310.6	306.1	316.5	328.5	303.8
100°	318.8	325.5	341.2	344.9	335.9	307.6	279.2	277.7	284.4	290.4	267.3
102.5°	325.5	328.5	331.5	333.7	317.3	285.9	265.0	259.8	262.0	265.0	244.1
105°	308.3	309.1	310.6	303.8	290.4	266.5	245.6	236.7	244.1	253.1	235.9
107.5°	266.5	265.8	266.5	264.3	262.8	248.6	233.7	222.5	222.5	225.5	209.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
110°	248.6	249.3	248.6	248.6	241.9	232.2	218.0	206.0	200.1	201.6	186.6
112.5°	227.7	227.7	228.4	229.2	225.5	216.5	202.3	190.4	182.9	181.4	167.2
115°	227.7	225.5	218.7	218.0	210.5	197.8	187.4	172.5	167.2	167.2	158.3
117.5°	203.1	201.6	196.3	194.8	190.4	179.9	173.9	162.0	158.3	156.0	147.8
120°	179.9	179.9	177.7	176.9	172.5	166.5	153.8	149.3	146.3	149.3	144.1
122.5°	167.2	167.2	163.5	162.0	156.8	152.3	141.1	132.9	127.7	133.6	130.6
125°	153.8	153.0	147.8	147.1	138.1	138.1	132.1	121.7	107.5	113.5	112.0
127.5°	135.1	134.4	127.7	126.9	121.7	127.7	126.2	112.7	93.3	97.1	97.1
130°	129.9	128.4	122.4	120.9	115.7	114.2	120.2	98.5	87.3	91.1	90.3
132.5°	129.9	128.4	120.9	118.7	110.5	102.3	108.2	85.9	83.6	88.1	87.3
135°	117.2	117.2	110.5	106.0	97.8	82.9	84.4	66.4	73.2	79.9	79.9
137.5°	99.3	99.3	92.6	91.1	81.4	66.4	59.7	50.8	62.0	69.4	70.2
140°	77.6	77.6	72.4	69.4	62.7	44.0	27.6	31.4	47.0	53.8	56.0
142.5°	56.0	55.2	50.8	47.0	40.3	23.9	9.0	17.9	27.6	36.6	39.6
145°	38.8	38.1	32.8	30.6	24.6	11.2	2.2	7.5	16.4	21.6	25.4
147.5°	23.1	23.1	19.4	18.7	12.7	3.0	1.5	2.2	8.2	13.4	15.7
150°	13.4	13.4	9.7	7.5	3.0	0.7	0.7	0.7	2.2	6.0	7.5
152.5°	3.0	3.0	2.2	1.5	1.5	0.7	0.0	0.7	0.7	0.7	1.5
155°	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
157.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.7	0.7	0.7	0.7
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
162.5°	0.7	0.7	0.0	0.0	0.7	0.0	0.7	0.0	0.7	0.7	0.7
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°	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0
2.5°	606.2	603.2	596.5	588.3	582.3	577.1	573.3	571.1	569.6	565.9	567.4
5°	628.6	622.6	606.9	594.3	580.8	568.9	559.9	553.9	551.7	548.7	548.7
7.5°	692.8	678.6	654.7	624.9	597.2	573.3	551.0	538.3	527.1	521.1	519.6
10°	819.0	800.3	748.8	687.6	627.1	573.3	530.0	498.7	483.8	478.5	478.5
12.5°	923.5	894.4	827.2	758.5	677.9	593.5	529.3	486.7	466.6	459.9	459.9
15°	954.8	916.8	837.6	770.4	698.0	627.1	567.4	506.2	469.6	458.4	454.6
17.5°	945.1	907.8	836.1	754.8	673.4	620.4	567.4	534.5	500.9	481.5	478.5
20°	1007.1	972.7	898.1	807.0	707.0	588.3	554.7	547.2	539.0	526.3	526.3
22.5°	1058.6	1026.5	951.8	854.0	733.9	656.2	606.2	598.7	589.8	587.5	586.0
25°	1098.2	1063.8	961.6	848.8	761.5	704.7	640.5	615.2	593.5	586.8	584.5
27.5°	1309.4	1256.4	1092.2	932.4	807.0	721.2	647.3	614.4	594.3	586.0	591.3
30°	1433.4	1375.9	1196.0	986.2	861.5	757.0	660.7	621.9	627.1	633.8	639.0
32.5°	1528.2	1452.8	1241.5	992.9	852.6	763.7	682.3	636.1	621.1	630.1	631.6
35°	1621.5	1529.7	1300.5	1035.5	864.5	739.1	667.4	640.5	636.1	648.0	645.8
37.5°	1811.1	1690.9	1373.6	1047.4	853.3	710.0	642.0	613.7	590.5	587.5	591.3
40°	2059.0	1897.7	1446.8	1042.2	801.0	674.9	609.9	577.8	559.9	548.7	542.0
42.5°	1935.0	1773.0	1352.7	1000.4	737.6	612.2	577.1	548.7	525.6	511.4	507.7
45°	2070.9	1912.7	1376.6	916.0	665.2	556.2	527.8	508.4	476.3	462.9	460.6
46°	2029.9	1850.7	1349.8	889.9	630.1	532.3	508.4	488.2	464.4	445.7	444.2
47.5°	1880.6	1671.5	1270.6	819.7	606.2	492.7	476.3	464.4	451.7	430.0	427.0
50°	1678.2	1518.5	1128.0	728.6	510.6	439.7	425.5	421.8	407.6	381.5	383.7
52.5°	1662.6	1508.0	1050.4	670.4	453.2	385.2	380.7	369.5	357.6	334.5	333.7
55°	801.8	681.6	583.1	524.8	379.2	341.2	338.9	333.7	318.8	297.9	301.6
57.5°	380.0	330.7	285.9	303.1	297.9	299.4	300.9	300.1	282.9	254.6	260.5
60°	333.0	288.9	247.1	234.4	246.4	265.0	265.0	253.8	229.9	196.3	193.4
62.5°	321.0	277.0	238.9	221.7	227.7	238.9	232.9	215.0	191.1	160.5	159.0
65°	322.5	275.5	238.1	216.5	221.7	226.2	215.0	200.8	188.1	166.5	166.5
67.5°	329.2	281.4	241.1	214.3	218.0	221.0	210.5	200.1	192.6	176.2	177.7
70°	330.7	285.2	244.1	215.0	214.3	217.2	209.8	200.1	196.3	185.1	184.4
72.5°	330.7	288.2	241.1	209.8	208.3	209.8	205.3	200.1	199.3	192.6	191.1
75°	319.5	281.4	230.7	199.3	197.8	199.3	197.8	197.1	200.1	197.1	194.1
77.5°	308.3	274.7	223.2	191.1	188.9	188.1	187.4	188.1	192.6	190.4	185.9
80°	313.5	277.7	221.7	184.4	177.7	174.7	174.7	175.4	175.4	168.7	162.0
82.5°	322.5	282.9	214.3	171.7	160.5	155.3	156.8	162.0	164.2	159.0	153.8
85°	355.4	306.8	215.8	162.7	146.3	140.4	142.6	149.3	144.8	137.4	131.4
87.5°	369.5	315.0	211.3	149.3	135.9	133.6	133.6	137.4	134.4	122.4	117.2
90°	353.1	301.6	191.1	126.9	118.0	120.2	120.9	117.2	104.5	91.1	86.6
92.5°	330.7	282.2	176.9	116.5	104.5	103.8	103.0	100.8	91.1	76.1	73.2
95°	312.1	265.8	163.5	106.8	95.6	93.3	92.6	89.6	80.6	69.4	67.9
97.5°	271.7	232.2	148.6	98.5	85.9	84.4	83.6	79.9	71.7	63.5	62.7
100°	244.1	206.8	132.9	88.8	77.6	75.4	74.7	72.4	65.7	59.7	59.0
102.5°	221.7	189.6	123.2	81.4	69.4	66.4	66.4	64.9	61.2	57.5	57.5
105°	215.8	185.9	119.4	74.7	62.0	60.5	59.7	59.7	56.7	54.5	54.5
107.5°	189.6	162.7	103.0	66.4	56.0	54.5	54.5	54.5	53.8	53.0	53.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	171.0	147.1	94.8	62.0	52.3	50.0	50.0	50.0	50.0	51.5	51.5
112.5°	152.3	132.1	87.3	59.0	48.5	46.3	44.8	44.0	43.3	46.3	47.0
115°	144.1	126.2	83.6	56.0	46.3	44.0	41.1	39.6	37.3	39.6	40.3
117.5°	135.9	119.4	82.1	55.2	44.8	41.1	38.1	36.6	33.6	35.8	35.8
120°	133.6	118.7	83.6	56.0	43.3	38.1	35.8	32.1	30.6	32.1	32.8
122.5°	123.2	109.7	78.4	52.3	41.1	36.6	33.6	27.6	26.9	29.1	29.1
125°	104.5	94.1	67.9	47.0	38.8	35.8	32.8	24.6	25.4	26.9	27.6
127.5°	91.8	82.9	62.0	45.5	38.8	36.6	30.6	21.6	23.9	26.1	26.9
130°	85.9	79.1	62.0	47.0	40.3	37.3	25.4	20.2	22.4	24.6	24.6
132.5°	83.6	78.4	63.5	50.0	41.8	35.8	20.9	18.7	20.9	22.4	22.4
135°	76.9	72.4	60.5	48.5	38.1	28.4	16.4	16.4	19.4	20.9	20.9
137.5°	67.9	64.2	54.5	44.8	33.6	21.6	11.9	14.2	16.4	17.9	17.9
140°	54.5	52.3	44.8	35.1	23.9	11.9	9.0	11.2	13.4	14.9	14.9
142.5°	38.8	37.3	31.4	22.4	14.2	5.2	6.0	8.2	10.5	11.9	11.9
145°	25.4	23.9	19.4	14.2	6.0	1.5	3.7	6.0	8.2	9.0	9.0
147.5°	15.7	14.9	11.9	6.7	2.2	1.5	1.5	4.5	6.0	6.7	6.7
150°	8.2	7.5	5.2	2.2	0.7	0.7	0.7	1.5	3.7	4.5	5.2
152.5°	2.2	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7	1.5	2.2
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
157.5°	0.7	0.7	0.7	0.7	0.7	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	0.7	0.0	0.7	0.7	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)