

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: P239880

Luminaire Tested: **UTLD-AF24-70-D-U-T3-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239880
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-AF24-70-D-U-T3-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 930mA 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: 5482 lumens
Efficiency: N/A
Efficacy: 74.1 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



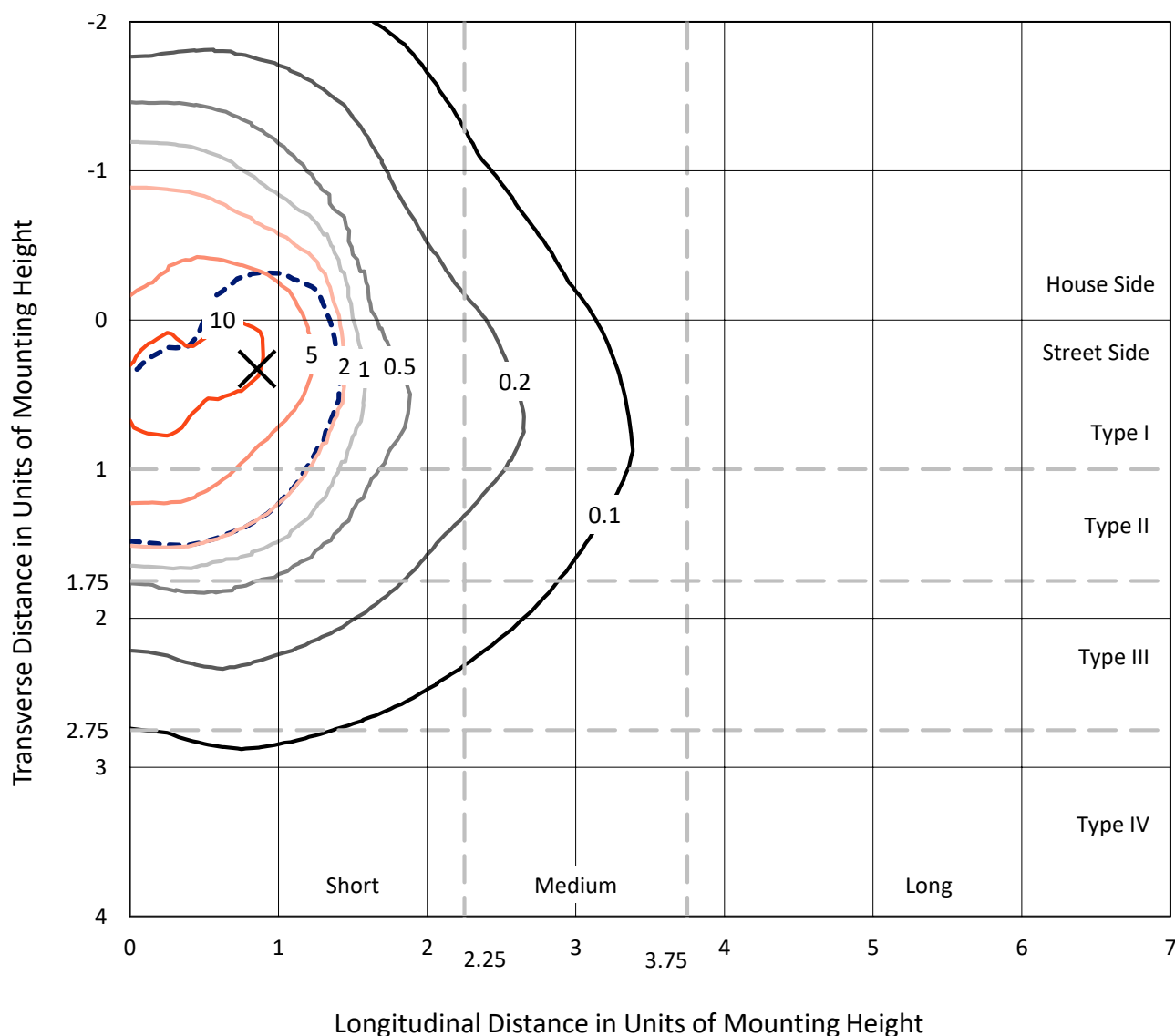
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

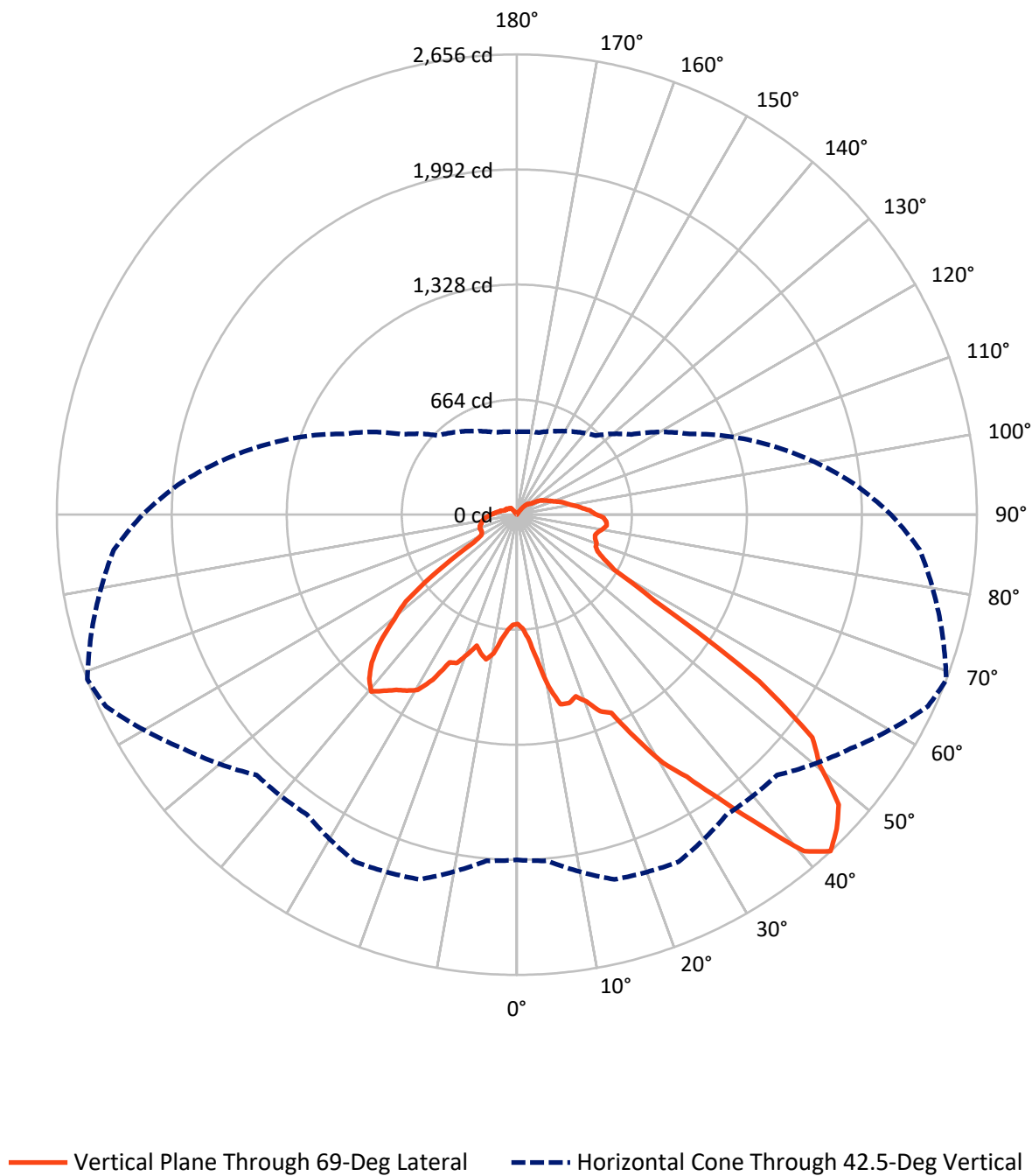


Based on 10 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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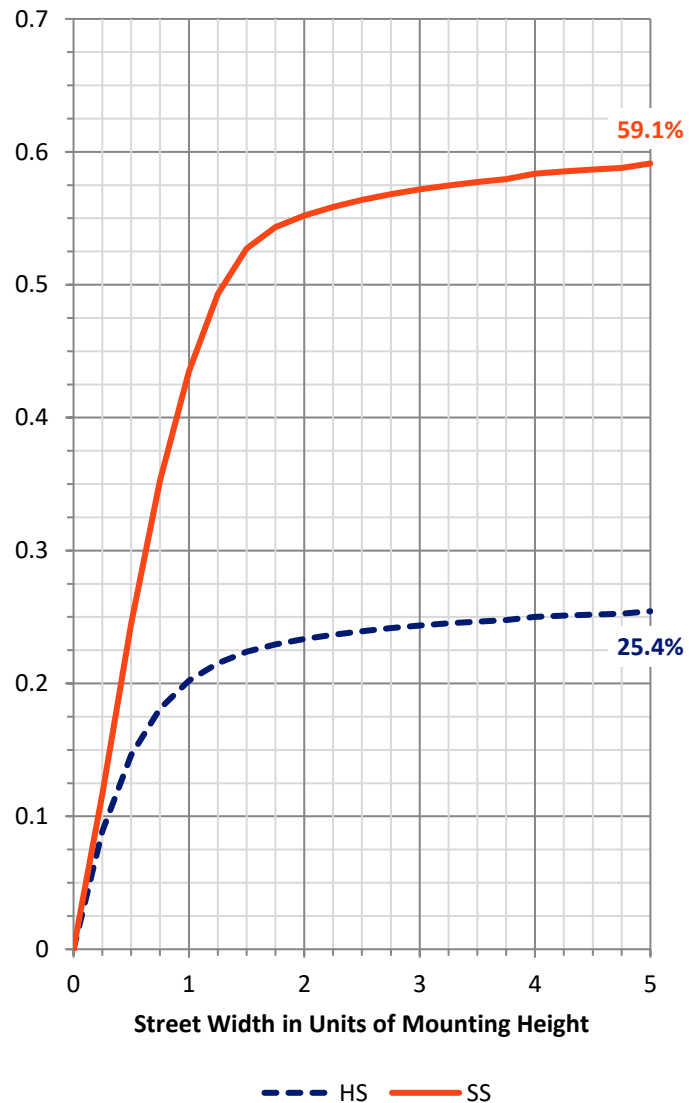
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1444.4	174.1	1618.5
	% Fixture	26.3	3.2	29.5
Street Side	Lumens	3347.1	516.4	3863.5
	% Fixture	61.1	9.4	70.5
Total	Lumens	4791.5	690.5	5482.0
	% Fixture	87.4	12.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	1.3
10°-20°	263.7	4.8
20°-30°	539.4	9.8
30°-40°	907.2	16.5
40°-50°	1200.9	21.9
50°-60°	866.0	15.8
60°-70°	340.2	6.2
70°-80°	306.5	5.6
80°-90°	298.7	5.4
90°-100°	252.0	4.6
100°-110°	179.1	3.3
110°-120°	120.8	2.2
120°-130°	79.0	1.4
130°-140°	47.2	0.9
140°-150°	12.0	0.2
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4791.5	87.4
0°-180°	5482.0	100.0

Coefficient of Utilization



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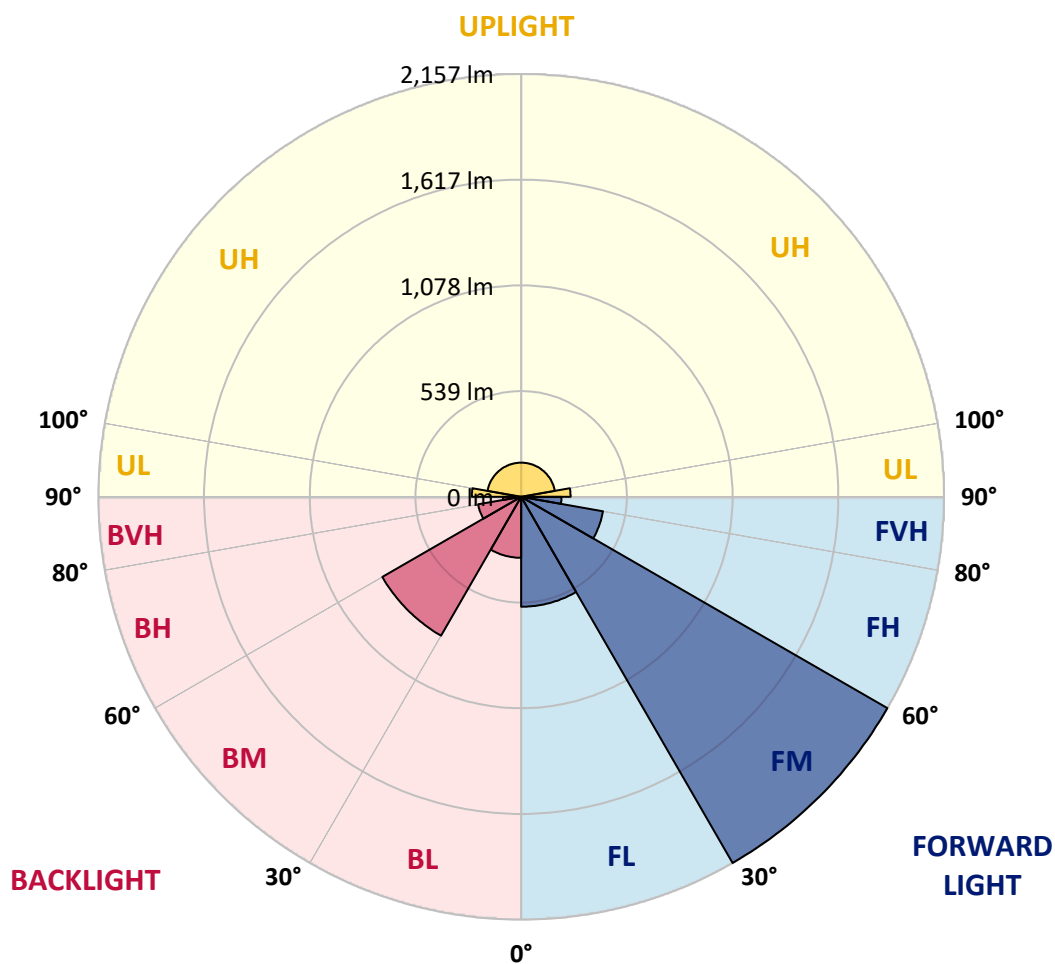
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	560.7	10.2			
FM	(30°-60°)	2156.6	39.3			
FH	(60°-80°)	423.9	7.7			G0/660
FVH	(80°-90°)	205.8	3.8			G2/225
BL	(0°-30°)	311.1	5.7	B1/500		
BM	(30°-60°)	817.6	14.9	B1/1000		
BH	(60°-80°)	222.8	4.1	B1/500		G1/500
BVH	(80°-90°)	92.9	1.7			G1/100
UL	(90°-100°)	252.0	4.6		U3/500	
UH	(100°-180°)	174.1	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°	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8
2.5°	671.8	668.1	666.6	666.6	664.4	663.6	665.1	662.9	659.2	658.4	653.9
5°	718.9	717.4	716.6	722.6	727.8	729.3	727.8	727.8	723.4	723.4	709.2
7.5°	794.3	792.0	798.0	812.9	818.2	833.8	852.5	841.3	844.3	836.1	809.2
10°	881.6	877.9	905.5	925.7	971.9	991.3	1015.2	1013.0	1008.5	994.3	949.5
12.5°	960.7	958.5	994.3	1067.5	1129.4	1192.2	1197.4	1145.9	1122.7	1072.0	1016.0
15°	1059.3	1061.5	1116.0	1219.8	1311.6	1337.0	1273.5	1172.0	1128.7	1076.4	993.6
17.5°	1218.3	1225.7	1318.3	1436.3	1497.5	1395.2	1259.3	1142.9	1101.8	1045.1	965.2
20°	1310.8	1315.3	1442.2	1602.0	1619.9	1454.2	1313.1	1187.7	1151.8	1107.1	1041.4
22.5°	1366.1	1382.5	1528.1	1723.7	1713.2	1591.5	1395.9	1277.3	1232.5	1171.2	1117.5
25°	1454.9	1466.9	1606.5	1795.3	1749.0	1636.3	1469.8	1311.6	1267.5	1222.8	1169.0
27.5°	1575.1	1586.3	1743.1	1852.1	1803.5	1696.0	1580.3	1478.8	1455.7	1448.2	1425.1
30°	1639.3	1646.8	1822.9	1914.8	1831.9	1781.9	1749.8	1668.4	1661.7	1646.8	1593.8
32.5°	1675.9	1704.2	1908.8	1961.8	1853.5	1847.6	1867.0	1817.0	1803.5	1778.1	1716.9
35°	1708.7	1722.9	1915.5	1996.1	1888.6	1885.6	2019.3	2042.4	2012.5	1960.3	1814.0
37.5°	1961.8	1968.5	2100.6	2072.3	1934.9	1951.3	2171.6	2291.7	2264.9	2199.9	2099.1
40°	2099.1	2111.1	2233.5	2174.5	2032.7	2051.4	2281.3	2530.6	2554.5	2552.3	2464.2
42.5°	1992.4	2005.1	2179.0	2210.4	2112.6	2125.3	2353.0	2618.0	2656.0	2538.8	2335.8
45°	2340.3	2350.0	2447.8	2218.6	2058.1	2106.6	2297.0	2554.5	2588.8	2554.5	2380.6
47.5°	2339.5	2327.6	2408.9	2241.7	2054.4	2021.5	2175.3	2432.8	2500.8	2422.4	2233.5
50°	2056.6	2055.8	2256.7	2160.4	2014.0	1937.9	2041.7	2245.5	2261.9	2170.1	1917.0
52.5°	1796.1	1794.6	2026.7	1977.5	1881.9	1807.3	1871.5	2074.5	2137.2	2056.6	1845.3
55°	1565.4	1629.6	1833.4	1728.1	1688.6	1614.7	1678.9	1728.9	1696.8	1472.8	993.6
57.5°	948.0	1019.0	1284.7	1360.9	1369.8	1316.8	1171.2	1000.3	939.1	750.2	447.9
60°	441.9	459.1	674.1	820.4	1001.0	915.2	740.5	645.0	645.0	566.6	388.9
62.5°	311.3	323.2	442.7	529.3	599.4	591.2	525.5	539.0	565.8	530.8	374.7
65°	292.6	300.1	394.1	420.3	447.2	452.4	443.4	484.5	512.8	508.4	380.0
67.5°	271.7	281.4	359.8	377.0	397.9	407.6	414.3	462.1	491.9	508.4	394.9
70°	247.1	258.3	332.2	356.1	376.2	398.6	406.8	458.3	489.0	505.4	400.1
72.5°	223.9	233.7	295.6	325.5	361.3	387.4	420.3	451.6	472.5	489.7	403.1
75°	201.6	212.8	265.0	299.3	341.1	390.4	430.0	453.1	467.3	480.7	399.4
77.5°	186.6	198.6	239.6	279.2	329.2	397.1	441.9	471.8	480.0	482.2	394.9
80°	173.2	186.6	229.9	271.7	326.2	400.1	456.1	491.9	503.1	508.4	420.3
82.5°	182.9	194.8	232.2	282.9	335.9	399.4	452.4	509.1	521.8	518.8	428.5
85°	206.8	216.5	262.0	309.8	350.9	392.7	438.9	500.9	518.8	534.5	453.9
87.5°	251.6	256.0	288.9	332.9	366.5	380.0	426.2	484.5	500.9	506.1	441.9
90°	275.5	279.9	318.8	355.3	365.8	370.3	380.0	438.2	450.1	471.0	422.5
92.5°	303.1	303.1	343.4	365.0	365.0	346.4	353.1	405.3	425.5	437.4	392.7
95°	330.0	328.5	350.9	363.5	344.1	318.0	329.2	370.3	383.0	395.6	365.0
97.5°	338.2	337.4	350.9	343.4	311.3	286.7	300.8	335.9	349.4	362.8	331.4
100°	329.2	325.5	329.2	312.8	282.9	264.3	272.5	301.6	315.8	327.0	298.6
102.5°	309.8	307.6	309.0	292.6	261.3	238.9	250.1	280.7	291.1	300.1	274.7
105°	300.8	297.1	290.4	266.5	235.9	220.2	229.9	260.5	270.2	288.1	267.2
107.5°	256.0	253.1	247.8	235.1	219.5	207.5	215.7	237.4	243.4	252.3	232.9
110°	221.0	219.5	218.0	215.0	205.3	197.1	201.6	213.5	221.0	227.7	208.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
112.5°	213.5	211.3	209.8	204.5	191.8	182.9	185.9	199.3	203.8	206.0	185.1
115°	203.8	201.6	193.3	185.9	176.9	172.4	173.2	184.4	187.4	188.9	176.2
117.5°	180.7	178.4	173.2	170.2	165.0	162.7	166.5	172.4	173.2	173.9	162.7
120°	167.2	166.5	163.5	158.3	154.5	149.3	155.3	161.2	163.5	165.7	158.3
122.5°	152.3	150.8	147.8	141.1	141.1	138.1	137.4	141.1	141.8	147.8	144.1
125°	134.4	132.9	129.9	123.9	131.4	131.4	126.2	117.9	120.2	125.4	122.4
127.5°	120.2	118.7	115.7	112.7	123.2	126.9	117.9	103.0	104.5	106.0	103.8
130°	117.9	116.5	112.7	107.5	110.5	121.7	106.0	94.1	96.3	97.8	96.3
132.5°	115.7	115.0	109.7	103.0	99.3	109.7	91.8	88.8	91.1	93.3	91.8
135°	108.2	107.5	103.0	93.3	82.9	88.1	73.2	77.6	81.4	84.4	82.9
137.5°	96.3	95.6	91.8	82.1	67.9	63.5	56.0	66.4	69.4	73.2	73.2
140°	77.6	76.9	73.2	63.5	47.8	33.6	35.8	50.8	53.7	58.2	59.0
142.5°	56.7	55.2	51.5	42.6	26.9	11.2	20.2	30.6	34.3	38.8	41.8
145°	38.8	38.1	32.8	25.4	12.7	1.5	9.0	18.7	20.9	23.9	26.9
147.5°	24.6	24.6	20.9	14.2	3.7	1.5	2.2	9.7	11.9	14.9	17.2
150°	14.9	14.9	11.2	4.5	0.7	0.7	0.7	1.5	3.7	6.7	9.0
152.5°	3.7	3.7	2.2	1.5	0.7	0.0	0.7	0.7	0.7	0.7	1.5
155°	1.5	1.5	1.5	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°	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8
2.5°	651.7	647.2	641.2	633.0	624.8	616.6	608.4	603.9	601.7	600.2	599.4
5°	705.4	695.7	680.1	658.4	631.5	615.9	604.7	591.2	582.3	579.3	577.0
7.5°	800.2	784.6	753.2	706.9	674.1	627.8	588.2	562.9	544.2	533.7	533.7
10°	927.1	904.8	850.3	786.8	702.5	621.1	559.9	513.6	491.9	483.0	480.7
12.5°	983.1	961.5	897.3	823.4	733.8	639.0	561.4	506.1	480.0	469.5	471.0
15°	954.8	924.9	869.7	800.2	730.1	670.4	605.4	536.7	491.9	480.0	483.7
17.5°	926.4	895.8	836.8	759.9	691.3	651.7	606.2	559.9	517.3	500.2	497.2
20°	1009.3	986.9	907.0	819.7	716.6	616.6	584.5	563.6	549.4	550.2	543.4
22.5°	1088.4	1057.8	984.6	882.4	771.1	683.8	631.5	603.9	588.2	595.0	595.7
25°	1141.4	1118.2	1010.0	887.6	795.0	730.1	654.7	615.9	589.7	589.7	586.7
27.5°	1410.9	1353.4	1181.7	994.3	856.2	748.7	657.7	612.9	580.0	570.3	571.8
30°	1552.0	1495.2	1298.9	1071.2	926.4	793.5	665.9	596.4	588.2	581.5	583.8
32.5°	1672.9	1589.3	1357.1	1091.4	913.7	800.2	683.8	600.2	560.6	553.9	556.9
35°	1732.6	1639.3	1403.4	1109.3	919.7	771.9	662.1	584.5	559.1	552.4	554.6
37.5°	2008.1	1868.5	1476.6	1136.2	918.2	734.6	633.0	570.3	523.3	503.1	503.1
40°	2324.6	2119.3	1604.2	1134.7	861.5	702.5	600.9	542.7	505.4	489.7	489.0
42.5°	2160.4	1964.8	1529.6	1101.1	806.2	644.2	583.0	530.8	490.4	480.0	477.8
45°	2229.0	2020.0	1475.8	1007.0	723.4	597.9	540.5	503.9	457.6	433.7	433.0
47.5°	2011.1	1843.1	1366.1	887.6	651.7	525.5	489.7	465.8	436.7	416.5	414.3
50°	1744.6	1575.1	1149.6	786.8	555.4	465.8	441.2	429.2	400.1	377.0	378.5
52.5°	1666.9	1461.6	1001.8	686.8	477.8	406.1	394.1	380.7	351.6	324.7	327.7
55°	826.4	684.5	609.1	533.7	400.9	353.1	347.9	339.7	310.5	287.4	288.1
57.5°	385.2	332.2	291.1	309.8	302.3	306.8	304.6	299.3	271.7	238.9	236.6
60°	344.9	295.6	247.1	234.4	248.6	268.0	266.5	250.1	215.0	176.2	171.7
62.5°	332.9	282.9	239.6	221.0	226.9	239.6	230.7	209.8	181.4	145.6	144.8
65°	338.9	285.9	238.9	215.7	220.2	225.4	212.8	197.8	180.7	156.0	156.0
67.5°	351.6	297.1	244.1	213.5	215.7	221.0	209.0	198.6	189.6	173.2	173.2
70°	355.3	302.3	247.1	214.2	212.0	216.5	208.3	198.6	193.3	179.9	179.2
72.5°	356.8	305.3	245.6	210.5	205.3	209.0	203.0	198.6	196.3	185.9	184.4
75°	350.1	302.3	238.1	202.3	197.1	198.6	197.1	196.3	199.3	192.6	190.4
77.5°	341.9	297.9	232.2	193.3	187.4	188.1	186.6	188.9	191.8	187.4	183.6
80°	359.1	310.5	232.9	186.6	175.4	171.7	172.4	174.7	178.4	168.7	163.5
82.5°	365.0	311.3	222.5	171.7	157.5	152.3	153.8	159.7	162.7	153.8	148.6
85°	387.4	325.5	215.0	158.3	141.8	136.6	138.1	141.8	140.3	129.9	125.4
87.5°	378.5	315.8	201.6	142.6	129.1	124.7	125.4	126.9	121.7	108.2	104.5
90°	365.8	304.6	186.6	125.4	114.2	112.7	111.2	109.0	100.0	85.8	82.1
92.5°	342.6	284.4	173.2	113.5	101.5	100.8	98.5	94.1	85.8	71.7	67.9
95°	323.2	266.5	160.5	103.8	91.1	88.1	88.1	83.6	74.6	62.7	61.2
97.5°	291.1	242.6	147.8	95.6	81.4	78.4	77.6	74.6	67.9	59.0	58.2
100°	263.5	219.5	134.4	86.6	73.2	70.2	68.7	67.2	62.0	56.7	56.7
102.5°	244.1	203.0	125.4	79.1	65.7	62.7	62.7	61.2	58.2	54.5	54.5
105°	238.9	199.3	121.7	72.4	58.2	56.7	57.5	57.5	55.2	53.0	53.0
107.5°	207.5	171.7	104.5	64.2	53.0	51.5	52.3	53.0	52.3	51.5	51.5
110°	185.1	156.0	97.0	60.5	50.0	47.8	47.8	47.8	47.8	48.5	49.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	165.7	138.8	88.8	57.5	47.0	44.8	44.0	43.3	42.6	45.5	45.5
115°	158.3	135.1	86.6	56.0	44.8	42.6	40.3	38.8	37.3	39.6	40.3
117.5°	147.1	126.9	84.4	56.0	44.0	40.3	38.1	35.8	33.6	35.8	35.8
120°	144.1	126.2	85.8	56.7	42.6	37.3	35.1	32.1	30.6	32.8	33.6
122.5°	132.9	117.9	81.4	53.7	41.1	35.8	33.6	27.6	27.6	29.1	29.9
125°	112.7	100.0	70.2	48.5	38.8	35.8	32.8	24.6	25.4	26.9	26.9
127.5°	96.3	86.6	64.2	47.0	39.6	36.6	30.6	23.1	24.6	26.9	26.9
130°	91.1	82.9	64.9	49.3	41.1	37.3	25.4	20.2	23.9	26.1	26.1
132.5°	87.3	80.6	64.9	51.5	42.6	34.3	20.2	17.9	20.2	21.6	21.6
135°	79.1	74.6	62.0	49.3	38.8	26.9	16.4	15.7	18.7	20.2	20.2
137.5°	70.9	66.4	56.7	45.5	34.3	21.6	11.9	14.2	15.7	17.2	17.2
140°	58.2	55.2	47.0	37.3	25.4	11.9	9.0	11.2	13.4	14.9	14.9
142.5°	41.1	39.6	32.8	23.9	14.2	4.5	6.0	8.2	9.7	11.2	11.2
145°	26.9	25.4	20.9	14.9	6.0	1.5	3.7	5.2	7.5	8.2	8.2
147.5°	17.2	16.4	12.7	7.5	2.2	1.5	1.5	3.7	6.0	6.7	6.7
150°	8.2	7.5	5.2	2.2	1.5	0.7	0.7	1.5	3.7	4.5	4.5
152.5°	1.5	1.5	1.5	0.7	0.7	0.0	0.0	0.7	0.7	1.5	1.5
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)