

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: P266447

Luminaire Tested: **UTLD-AF24-70-D-U-T3-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-15)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-70-D-U-T3-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 5380.5 lumens
Efficiency: N/A
Efficacy: 72.7 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

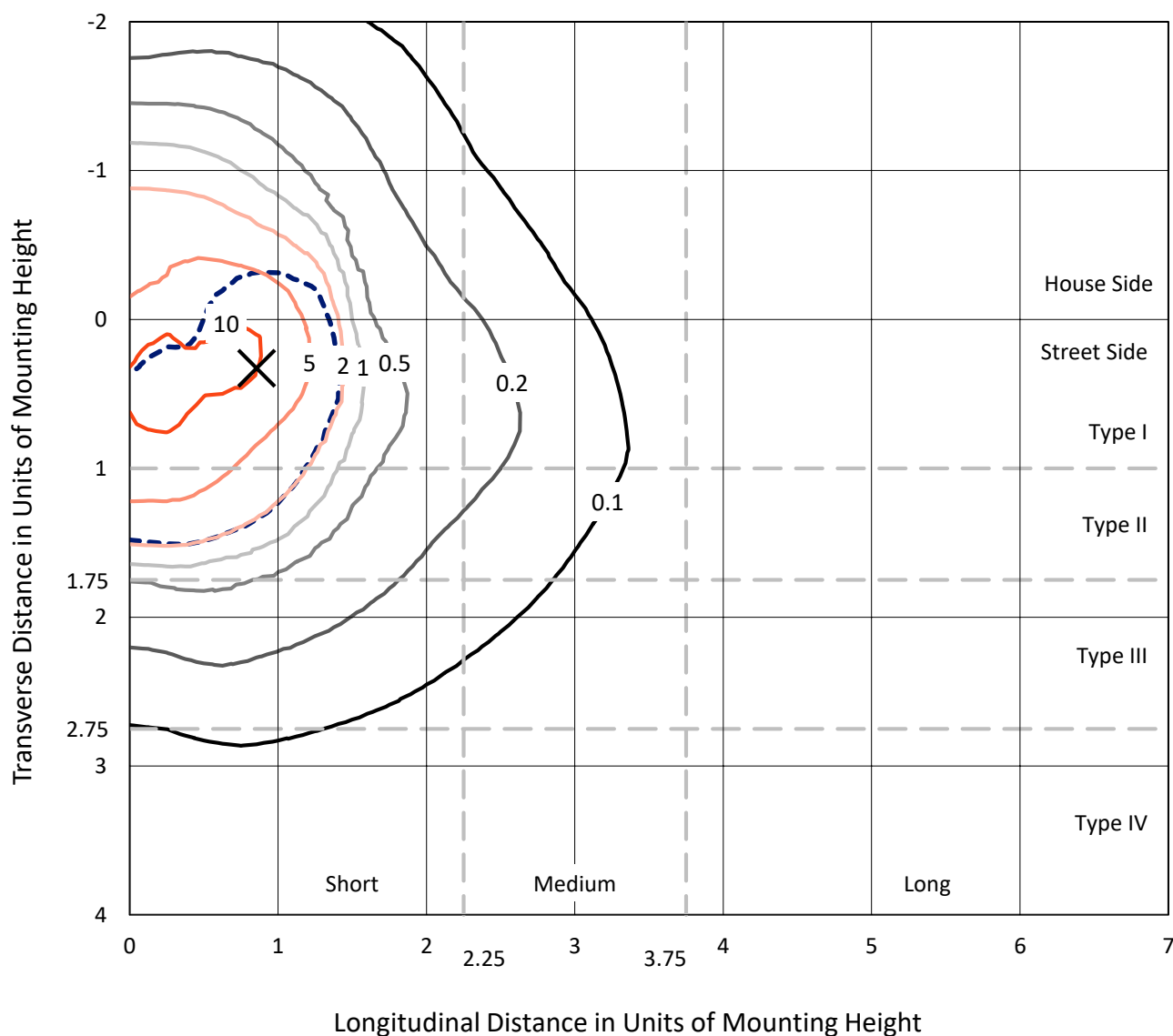


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

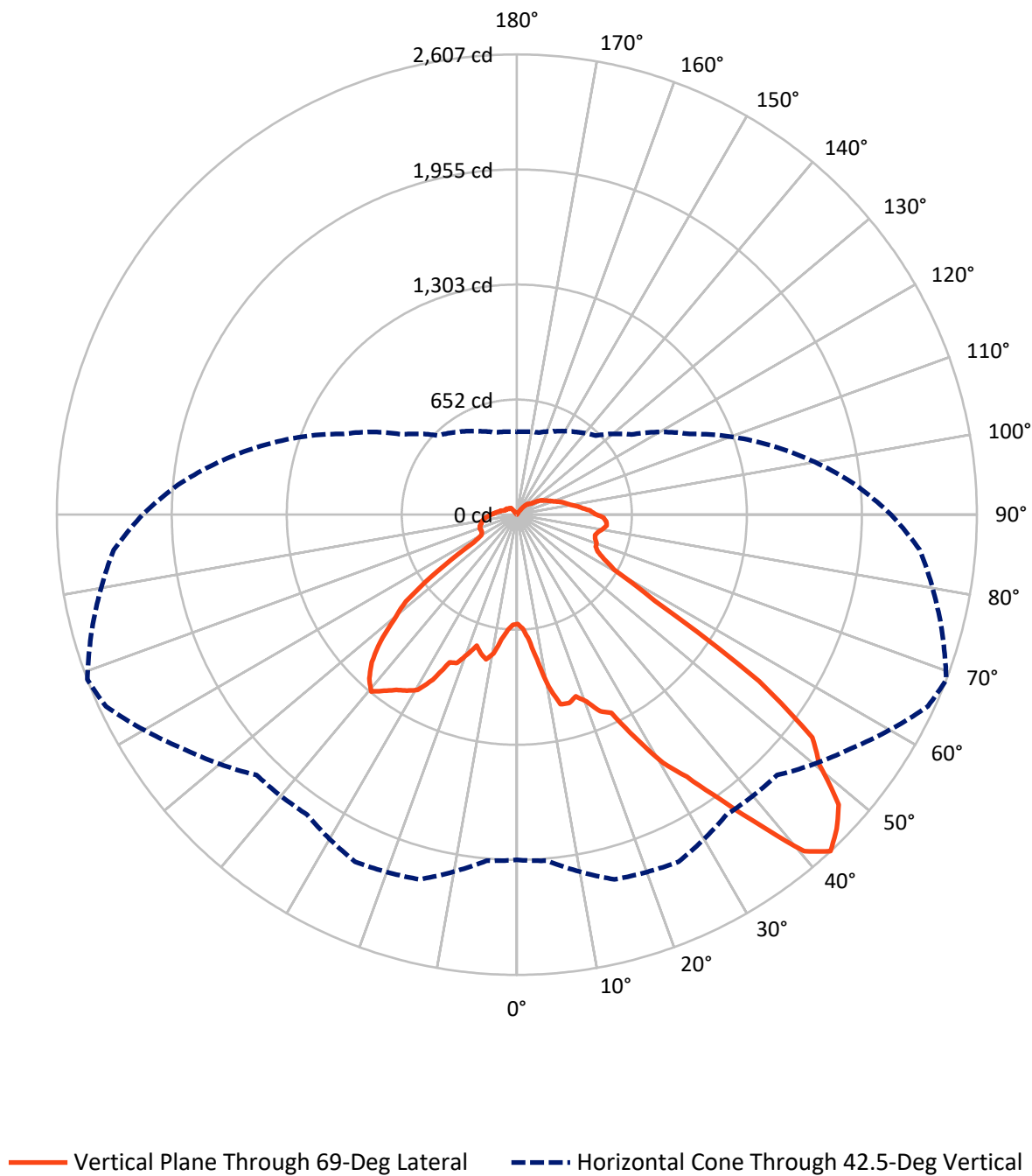


Based on 10 foot mounting height. Maximum calculated value = 13 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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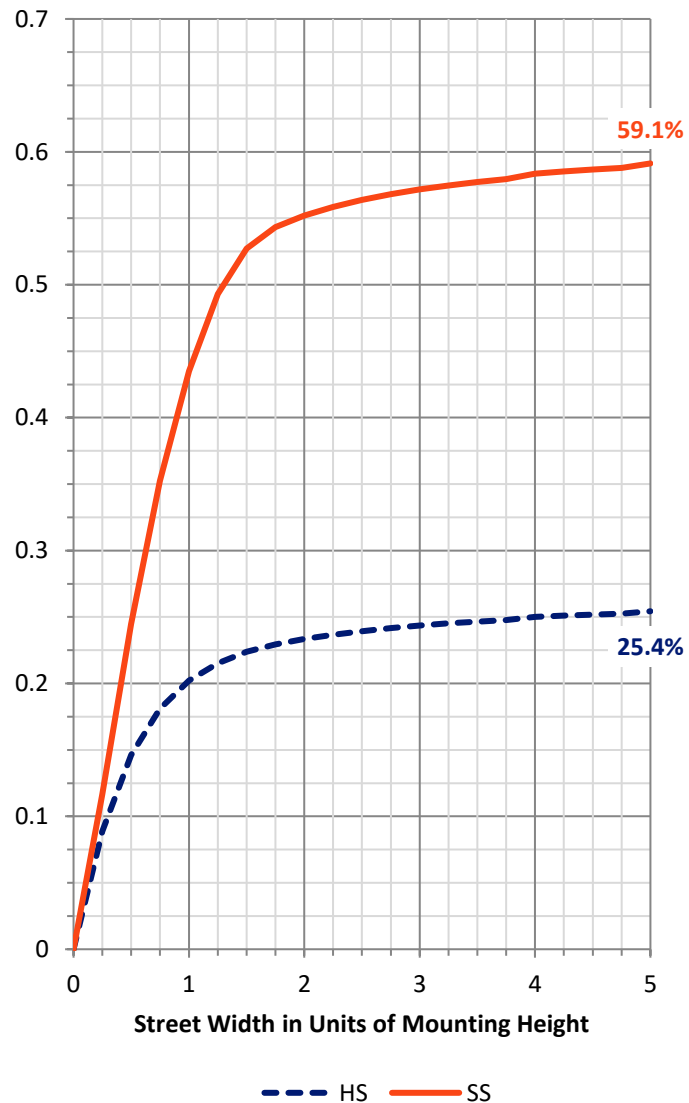
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1417.7	170.9	1588.5
	% Fixture	26.3	3.2	29.5
Street Side	Lumens	3285.1	506.9	3792.0
	% Fixture	61.1	9.4	70.5
Total	Lumens	4702.7	677.7	5380.5
	% Fixture	87.4	12.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	1.3
10°-20°	258.8	4.8
20°-30°	529.4	9.8
30°-40°	890.4	16.5
40°-50°	1178.7	21.9
50°-60°	850.0	15.8
60°-70°	333.9	6.2
70°-80°	300.9	5.6
80°-90°	293.2	5.4
90°-100°	247.3	4.6
100°-110°	175.8	3.3
110°-120°	118.5	2.2
120°-130°	77.5	1.4
130°-140°	46.4	0.9
140°-150°	11.7	0.2
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4702.7	87.4
0°-180°	5380.5	100.0

Coefficient of Utilization



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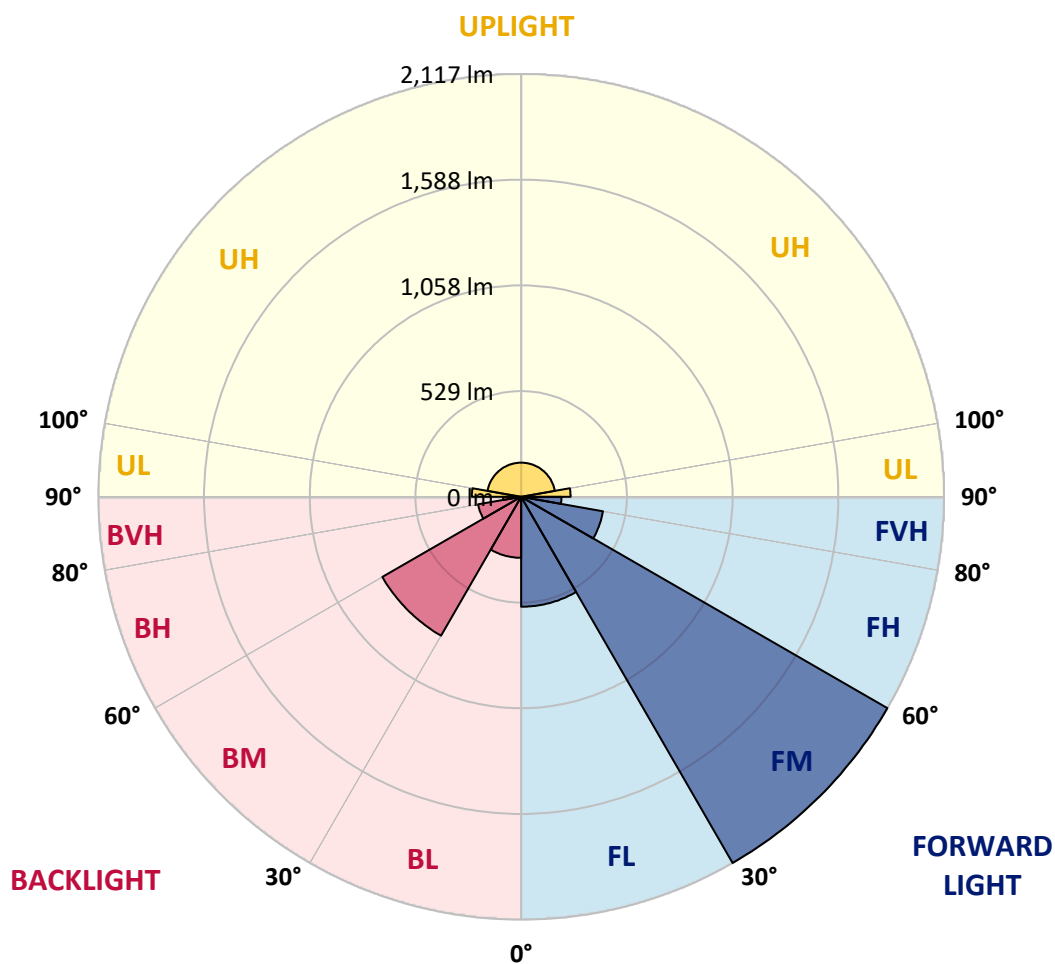
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	550.3	10.2			
FM	(30°-60°)	2116.7	39.3			
FH	(60°-80°)	416.1	7.7			G0/660
FVH	(80°-90°)	202.0	3.8			G2/225
BL	(0°-30°)	305.4	5.7	B1/500		
BM	(30°-60°)	802.4	14.9	B1/1000		
BH	(60°-80°)	218.7	4.1	B1/500		G1/500
BVH	(80°-90°)	91.2	1.7			G1/100
UL	(90°-100°)	247.3	4.6		U3/500	
UH	(100°-180°)	170.9	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°	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1
2.5°	659.4	655.8	654.2	654.2	652.1	651.4	652.8	650.6	647.0	646.2	641.7
5°	705.6	704.1	703.4	709.2	714.3	715.8	714.3	714.3	710.0	710.0	696.0
7.5°	779.5	777.4	783.2	797.9	803.1	818.4	836.7	825.7	828.6	820.6	794.2
10°	865.2	861.7	888.8	908.5	953.9	973.0	996.4	994.2	989.8	975.9	931.9
12.5°	943.0	940.7	975.9	1047.8	1108.5	1170.1	1175.3	1124.7	1102.0	1052.2	997.2
15°	1039.7	1041.9	1095.4	1197.3	1287.4	1312.2	1249.9	1150.3	1107.8	1056.4	975.2
17.5°	1195.7	1203.0	1293.9	1409.7	1469.7	1369.3	1236.0	1121.8	1081.4	1025.8	947.4
20°	1286.6	1291.0	1415.5	1572.4	1589.9	1427.2	1288.8	1165.7	1130.4	1086.6	1022.1
22.5°	1340.8	1356.9	1499.8	1691.8	1681.4	1562.1	1370.0	1253.7	1209.7	1149.6	1096.8
25°	1427.9	1439.8	1576.7	1762.0	1716.7	1606.0	1442.6	1287.4	1244.1	1200.1	1147.3
27.5°	1546.0	1556.9	1710.8	1817.8	1770.1	1664.6	1551.1	1451.4	1428.8	1421.4	1398.8
30°	1609.0	1616.3	1789.2	1879.3	1798.0	1748.9	1717.4	1637.5	1631.0	1616.3	1564.3
32.5°	1644.8	1672.6	1873.4	1925.4	1819.2	1813.4	1832.5	1783.3	1770.1	1745.1	1685.1
35°	1677.0	1691.0	1880.1	1959.2	1853.7	1850.7	1981.9	2004.6	1975.3	1924.0	1780.4
37.5°	1925.4	1932.1	2061.7	2033.9	1899.0	1915.1	2131.4	2249.3	2222.9	2159.2	2060.3
40°	2060.3	2072.0	2192.1	2134.3	1995.0	2013.5	2239.0	2483.8	2507.2	2505.1	2418.5
42.5°	1955.5	1967.9	2138.7	2169.4	2073.5	2086.0	2309.5	2569.5	2606.8	2491.8	2292.6
45°	2297.0	2306.5	2402.4	2177.5	2020.0	2067.5	2254.4	2507.2	2540.9	2507.2	2336.5
47.5°	2296.2	2284.5	2364.2	2200.2	2016.3	1984.0	2135.0	2387.8	2454.4	2377.5	2192.1
50°	2018.5	2017.8	2215.0	2120.4	1976.7	1902.0	2003.8	2203.9	2220.0	2129.9	1881.5
52.5°	1762.8	1761.3	1989.1	1940.9	1847.0	1773.9	1836.9	2036.1	2097.6	2018.5	1811.2
55°	1536.5	1599.4	1799.5	1696.1	1657.4	1584.8	1647.9	1696.9	1665.4	1445.6	975.2
57.5°	930.5	1000.2	1261.0	1335.7	1344.5	1292.4	1149.6	981.8	921.8	736.3	439.6
60°	433.7	450.6	661.6	805.2	982.4	898.2	726.8	633.0	633.0	556.1	381.7
62.5°	305.6	317.2	434.5	519.5	588.3	580.2	515.7	529.0	555.3	520.9	367.8
65°	287.2	294.6	386.8	412.5	438.9	444.0	435.1	475.6	503.3	499.0	372.9
67.5°	266.6	276.1	353.2	370.0	390.6	400.0	406.7	453.6	482.7	499.0	387.6
70°	242.5	253.5	326.1	349.5	369.3	391.2	399.2	449.8	480.0	496.0	392.6
72.5°	219.7	229.3	290.2	319.4	354.7	380.3	412.5	443.3	463.7	480.7	395.7
75°	197.8	208.9	260.1	293.7	334.8	383.1	422.1	444.8	458.7	471.8	392.0
77.5°	183.2	194.9	235.1	274.1	323.1	389.8	433.7	463.0	471.2	473.2	387.6
80°	170.0	183.2	225.7	266.6	320.2	392.6	447.6	482.7	493.8	499.0	412.5
82.5°	179.5	191.2	227.9	277.7	329.7	392.0	444.0	499.6	512.2	509.2	420.5
85°	202.9	212.4	257.2	304.0	344.4	385.5	430.7	491.6	509.2	524.6	445.5
87.5°	246.9	251.3	283.5	326.8	359.7	372.9	418.3	475.6	491.6	496.8	433.7
90°	270.4	274.7	312.9	348.7	359.1	363.5	372.9	430.1	441.7	462.3	414.7
92.5°	297.5	297.5	337.0	358.2	358.2	340.0	346.6	397.8	417.6	429.3	385.5
95°	323.8	322.4	344.4	356.7	337.8	312.2	323.1	363.5	375.9	388.2	358.2
97.5°	332.0	331.1	344.4	337.0	305.6	281.3	295.3	329.7	343.0	356.1	325.2
100°	323.1	319.4	323.1	307.0	277.7	259.4	267.4	296.0	309.9	321.0	293.0
102.5°	304.0	301.9	303.3	287.2	256.5	234.5	245.4	275.5	285.8	294.6	269.6
105°	295.3	291.6	285.0	261.5	231.6	216.1	225.7	255.7	265.2	282.7	262.2
107.5°	251.3	248.4	243.3	230.8	215.5	203.6	211.7	233.0	238.9	247.7	228.6
110°	216.9	215.5	213.9	211.0	201.5	193.4	197.8	209.6	216.9	223.5	204.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
112.5°	209.6	207.4	205.9	200.7	188.3	179.5	182.4	195.7	200.1	202.2	181.6
115°	200.1	197.8	189.7	182.4	173.6	169.2	170.0	181.0	184.0	185.4	173.0
117.5°	177.3	175.1	170.0	167.1	162.0	159.7	163.4	169.2	170.0	170.7	159.7
120°	164.1	163.4	160.4	155.3	151.6	146.6	152.4	158.2	160.4	162.7	155.3
122.5°	149.5	148.0	145.0	138.5	138.5	135.6	134.8	138.5	139.1	145.0	141.5
125°	132.0	130.4	127.5	121.6	128.9	128.9	123.8	115.7	117.9	123.1	120.2
127.5°	117.9	116.5	113.5	110.6	120.9	124.5	115.7	101.1	102.5	104.1	101.9
130°	115.7	114.4	110.6	105.6	108.4	119.5	104.1	92.3	94.5	95.9	94.5
132.5°	113.5	112.8	107.6	101.1	97.5	107.6	90.1	87.1	89.4	91.5	90.1
135°	106.2	105.6	101.1	91.5	81.3	86.4	71.9	76.1	79.9	82.9	81.3
137.5°	94.5	93.9	90.1	80.6	66.7	62.3	54.9	65.1	68.1	71.9	71.9
140°	76.1	75.5	71.9	62.3	46.9	33.0	35.2	49.9	52.7	57.1	57.9
142.5°	55.7	54.2	50.6	41.9	26.4	11.0	19.9	30.1	33.6	38.1	41.1
145°	38.1	37.4	32.2	25.0	12.4	1.4	8.9	18.3	20.5	23.4	26.4
147.5°	24.2	24.2	20.5	14.0	3.7	1.4	2.2	9.5	11.7	14.6	16.9
150°	14.6	14.6	11.0	4.4	0.7	0.7	0.7	1.4	3.7	6.6	8.9
152.5°	3.7	3.7	2.2	1.4	0.7	0.0	0.7	0.7	0.7	0.7	1.4
155°	1.4	1.4	1.4	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°	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1
2.5°	639.7	635.2	629.4	621.3	613.3	605.2	597.2	592.7	590.5	589.1	588.3
5°	692.4	682.8	667.5	646.2	619.8	604.5	593.5	580.2	571.5	568.5	566.3
7.5°	785.4	770.0	739.2	693.9	661.6	616.1	577.3	552.5	534.1	523.8	523.8
10°	910.0	888.1	834.5	772.3	689.4	609.6	549.6	504.0	482.7	474.0	471.8
12.5°	964.9	943.7	880.7	808.1	720.3	627.1	551.0	496.8	471.2	460.8	462.3
15°	937.1	907.7	853.6	785.4	716.6	658.0	594.1	526.8	482.7	471.2	474.8
17.5°	909.3	879.3	821.3	745.9	678.5	639.7	594.9	549.6	507.7	491.0	488.0
20°	990.7	968.6	890.2	804.5	703.4	605.2	573.7	553.1	539.3	540.1	533.4
22.5°	1068.3	1038.3	966.3	866.1	756.8	671.2	619.8	592.7	577.3	584.0	584.6
25°	1120.2	1097.5	991.3	871.1	780.3	716.6	642.6	604.5	578.8	578.8	575.9
27.5°	1384.7	1328.4	1159.8	975.9	840.4	734.9	645.5	601.5	569.3	559.7	561.3
30°	1523.3	1467.6	1274.9	1051.3	909.3	778.8	653.5	585.3	577.3	570.8	572.9
32.5°	1641.9	1559.8	1331.9	1071.1	896.8	785.4	671.2	589.1	550.2	543.7	546.6
35°	1700.5	1609.0	1377.5	1088.7	902.6	757.6	649.8	573.7	548.8	542.1	544.4
37.5°	1970.9	1833.9	1449.2	1115.2	901.2	721.0	621.3	559.7	513.7	493.8	493.8
40°	2281.5	2080.0	1574.5	1113.7	845.6	689.4	589.7	532.6	496.0	480.7	480.0
42.5°	2120.4	1928.4	1501.2	1080.8	791.2	632.2	572.2	520.9	481.3	471.2	468.9
45°	2187.7	1982.6	1448.4	988.3	710.0	586.9	530.4	494.5	449.2	425.6	425.0
47.5°	1973.8	1808.9	1340.8	871.1	639.7	515.7	480.7	457.1	428.6	408.8	406.7
50°	1712.3	1546.0	1128.4	772.3	545.1	457.1	433.1	421.2	392.6	370.0	371.4
52.5°	1636.1	1434.6	983.3	674.1	468.9	398.6	386.8	373.6	345.0	318.7	321.7
55°	811.1	671.8	597.8	523.8	393.5	346.6	341.4	333.5	304.7	282.1	282.7
57.5°	378.0	326.1	285.8	304.0	296.7	301.1	299.0	293.7	266.6	234.5	232.2
60°	338.5	290.2	242.5	230.1	244.0	263.1	261.5	245.4	211.0	173.0	168.5
62.5°	326.8	277.7	235.1	216.9	222.7	235.1	226.5	205.9	178.0	142.9	142.1
65°	332.6	280.6	234.5	211.7	216.1	221.3	208.9	194.2	177.3	153.2	153.2
67.5°	345.0	291.6	239.6	209.6	211.7	216.9	205.2	194.9	186.0	170.0	170.0
70°	348.7	296.7	242.5	210.3	208.0	212.4	204.5	194.9	189.7	176.5	175.9
72.5°	350.2	299.7	241.0	206.6	201.5	205.2	199.2	194.9	192.6	182.4	181.0
75°	343.6	296.7	233.6	198.5	193.4	194.9	193.4	192.6	195.7	189.1	186.8
77.5°	335.5	292.4	227.9	189.7	184.0	184.6	183.2	185.4	188.3	184.0	180.2
80°	352.4	304.7	228.6	183.2	172.1	168.5	169.2	171.4	175.1	165.6	160.4
82.5°	358.2	305.6	218.4	168.5	154.6	149.5	150.9	156.8	159.7	150.9	145.9
85°	380.3	319.4	211.0	155.3	139.1	134.0	135.6	139.1	137.7	127.5	123.1
87.5°	371.4	309.9	197.8	140.0	126.8	122.3	123.1	124.5	119.5	106.2	102.5
90°	359.1	299.0	183.2	123.1	112.1	110.6	109.1	107.0	98.2	84.3	80.6
92.5°	336.2	279.2	170.0	111.4	99.6	99.0	96.7	92.3	84.3	70.3	66.7
95°	317.2	261.5	157.6	101.9	89.4	86.4	86.4	82.0	73.2	61.5	60.0
97.5°	285.8	238.1	145.0	93.9	79.9	77.0	76.1	73.2	66.7	57.9	57.1
100°	258.6	215.5	132.0	85.0	71.9	68.9	67.5	65.9	60.8	55.7	55.7
102.5°	239.6	199.2	123.1	77.7	64.5	61.5	61.5	60.0	57.1	53.4	53.4
105°	234.5	195.7	119.5	71.1	57.1	55.7	56.5	56.5	54.2	52.0	52.0
107.5°	203.6	168.5	102.5	63.1	52.0	50.6	51.4	52.0	51.4	50.6	50.6
110°	181.6	153.2	95.2	59.4	49.0	46.9	46.9	46.9	46.9	47.6	48.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	162.7	136.3	87.1	56.5	46.2	43.9	43.2	42.5	41.9	44.6	44.6
115°	155.3	132.6	85.0	54.9	43.9	41.9	39.5	38.1	36.7	38.8	39.5
117.5°	144.4	124.5	82.9	54.9	43.2	39.5	37.4	35.2	33.0	35.2	35.2
120°	141.5	123.8	84.3	55.7	41.9	36.7	34.5	31.5	30.1	32.2	33.0
122.5°	130.4	115.7	79.9	52.7	40.3	35.2	33.0	27.0	27.0	28.6	29.4
125°	110.6	98.2	68.9	47.6	38.1	35.2	32.2	24.2	25.0	26.4	26.4
127.5°	94.5	85.0	63.1	46.2	38.8	35.9	30.1	22.6	24.2	26.4	26.4
130°	89.4	81.3	63.7	48.4	40.3	36.7	25.0	19.9	23.4	25.6	25.6
132.5°	85.7	79.1	63.7	50.6	41.9	33.6	19.9	17.5	19.9	21.2	21.2
135°	77.7	73.2	60.8	48.4	38.1	26.4	16.1	15.5	18.3	19.9	19.9
137.5°	69.6	65.1	55.7	44.6	33.6	21.2	11.7	14.0	15.5	16.9	16.9
140°	57.1	54.2	46.2	36.7	25.0	11.7	8.9	11.0	13.1	14.6	14.6
142.5°	40.3	38.8	32.2	23.4	14.0	4.4	5.8	8.1	9.5	11.0	11.0
145°	26.4	25.0	20.5	14.6	5.8	1.4	3.7	5.1	7.4	8.1	8.1
147.5°	16.9	16.1	12.4	7.4	2.2	1.4	1.4	3.7	5.8	6.6	6.6
150°	8.1	7.4	5.1	2.2	1.4	0.7	0.7	1.4	3.7	4.4	4.4
152.5°	1.4	1.4	1.4	0.7	0.7	0.0	0.0	0.7	0.7	1.4	1.4
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)