

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: P266390

Luminaire Tested: **UTLD-AF24-50-D-U-T4W-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-31)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-50-D-U-T4W-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4425.5 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 54
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

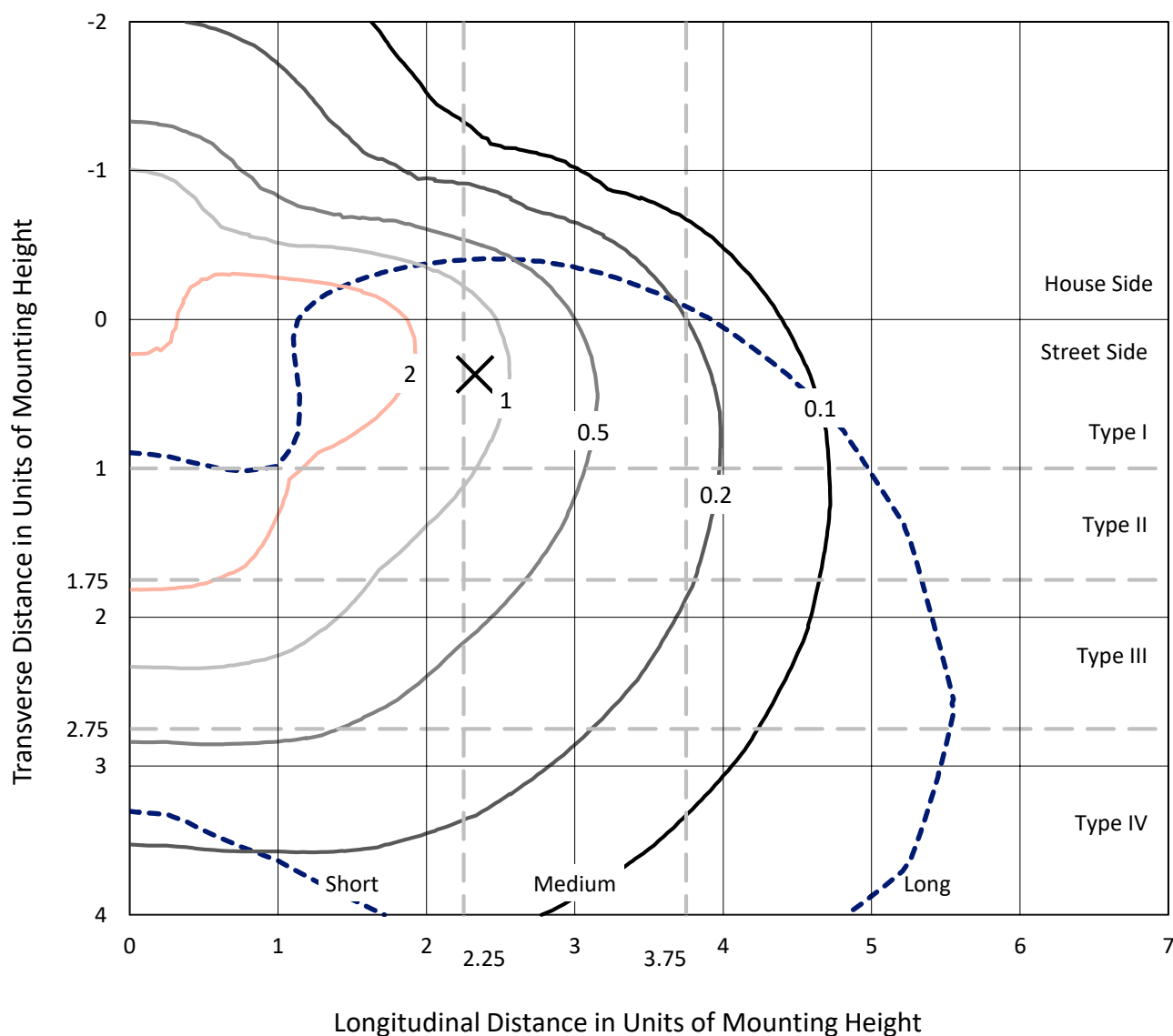


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

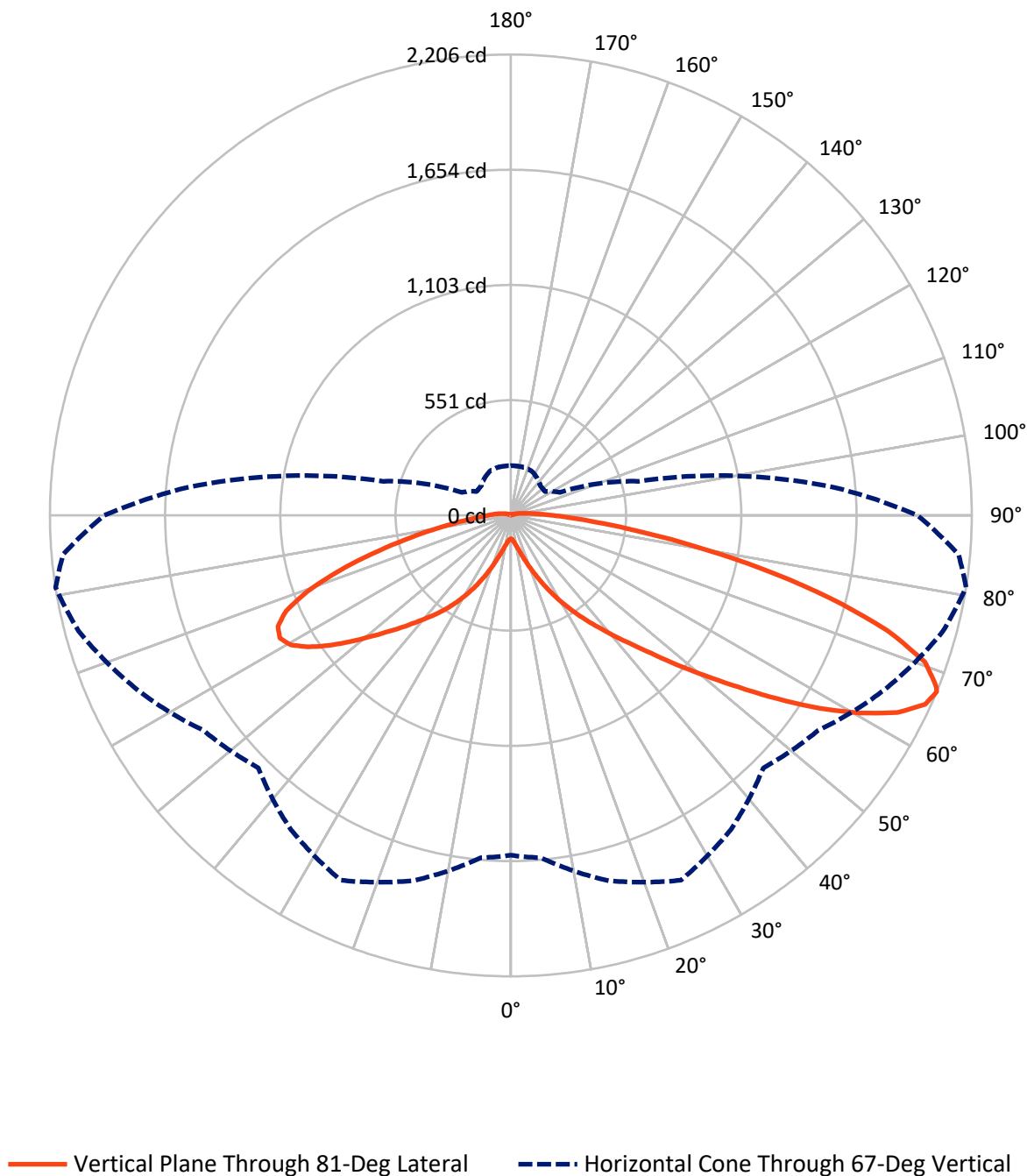


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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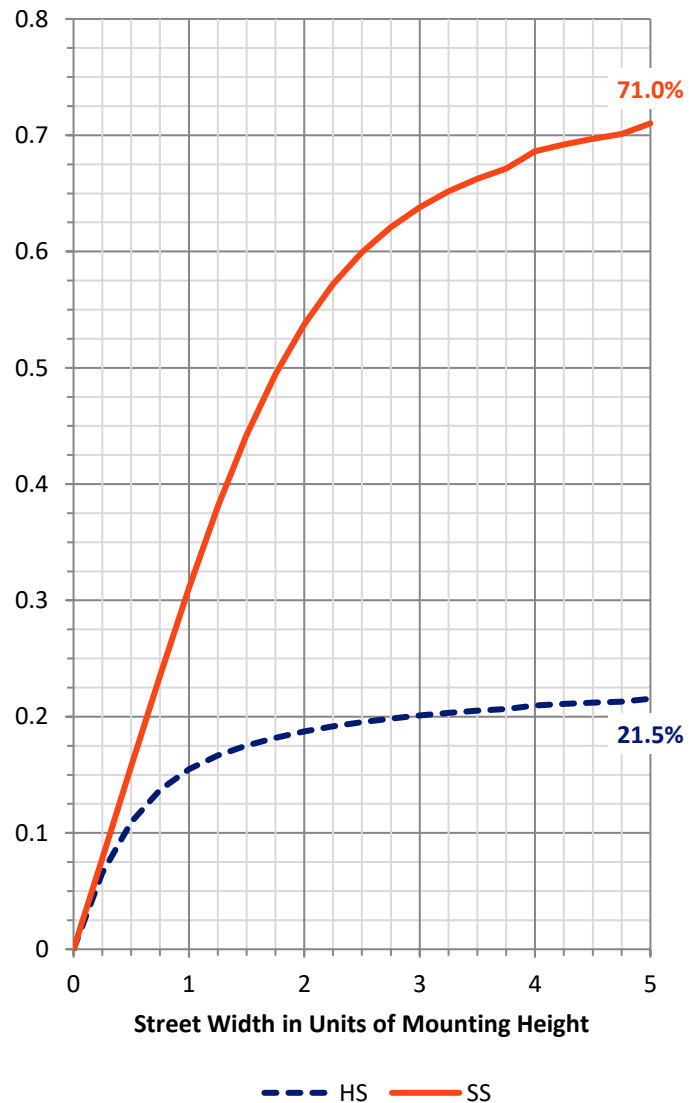
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1005.7	80.9	1086.7
	% Fixture	22.7	1.8	24.6
Street Side	Lumens	3246.4	92.4	3338.8
	% Fixture	73.4	2.1	75.4
Total	Lumens	4252.1	173.4	4425.5
	% Fixture	96.1	3.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.4	0.3
10°-20°	55.9	1.3
20°-30°	150.9	3.4
30°-40°	302.9	6.8
40°-50°	512.0	11.6
50°-60°	818.6	18.5
60°-70°	1118.5	25.3
70°-80°	922.0	20.8
80°-90°	358.9	8.1
90°-100°	103.3	2.3
100°-110°	39.6	0.9
110°-120°	17.1	0.4
120°-130°	8.2	0.2
130°-140°	3.8	0.1
140°-150°	1.2	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4252.1	96.1
0°-180°	4425.5	100.0

Coefficient of Utilization



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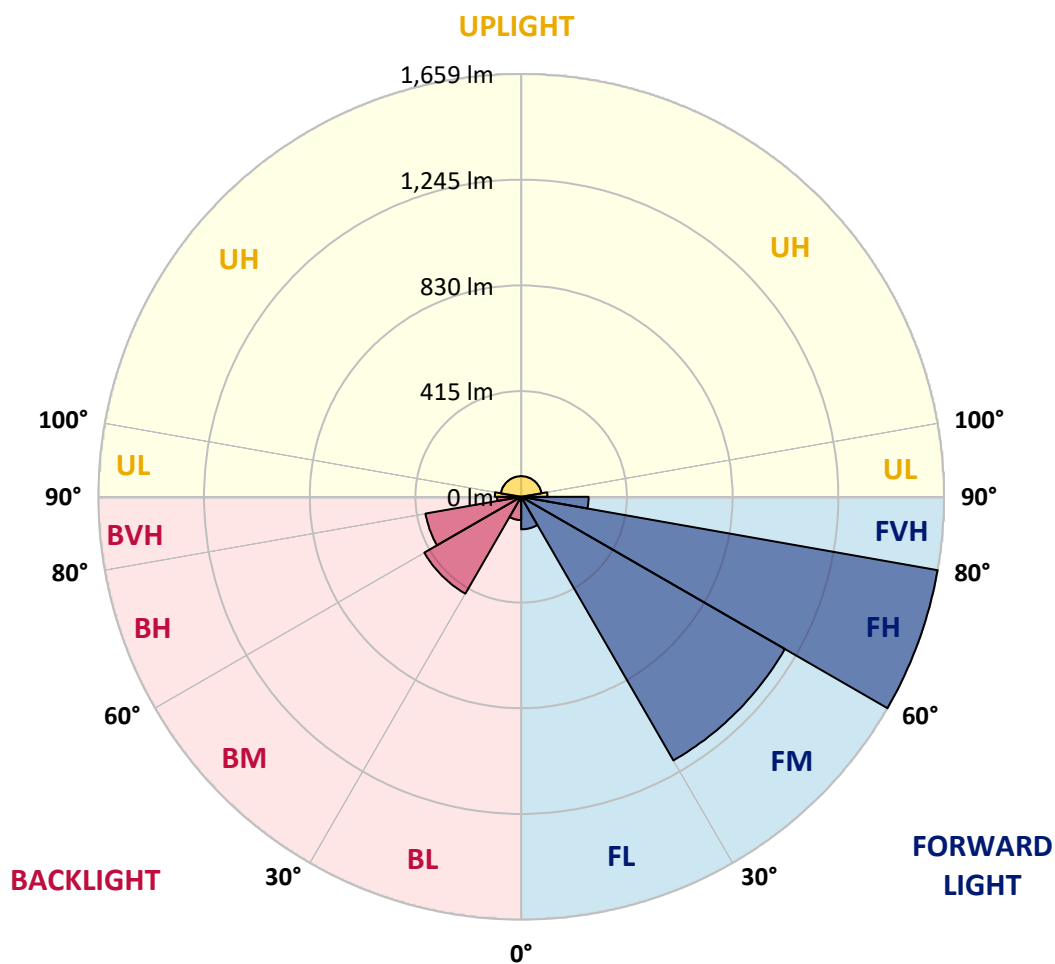
CATALOG NUMBER: UTLD-AF24-50-D-U-T4W-TL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	127.8	2.9			
FM	(30°-60°)	1194.8	27.0			
FH	(60°-80°)	1659.4	37.5			G1/1800
FVH	(80°-90°)	264.4	6.0			G3/500
BL	(0°-30°)	91.4	2.1	B0/110		
BM	(30°-60°)	438.8	9.9	B1/1000		
BH	(60°-80°)	381.2	8.6	B1/500		G1/500
BVH	(80°-90°)	94.5	2.1			G1/100
UL	(90°-100°)	103.3	2.3		U3/500	
UH	(100°-180°)	80.9	1.8		U3/500	

BUG Rating: B1-U3-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
0°	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1
2.5°	121.1	121.1	121.1	120.6	120.0	118.8	117.7	116.6	116.1	115.4	115.0
5°	133.5	134.0	133.5	132.9	131.2	129.5	127.3	125.7	123.3	122.2	121.7
7.5°	152.1	152.1	151.5	148.7	147.1	144.2	141.4	138.0	135.7	134.0	131.8
10°	175.7	174.6	173.6	170.7	166.7	162.2	158.8	154.9	150.9	149.7	147.6
12.5°	203.8	203.8	201.1	197.2	189.8	185.3	179.8	175.2	171.2	169.1	167.9
15°	241.6	239.9	234.8	228.7	219.6	210.7	204.5	201.1	197.2	197.2	193.1
17.5°	279.9	281.6	273.8	264.1	251.7	240.4	233.2	232.7	231.0	229.7	229.2
20°	330.0	328.4	318.8	302.5	284.5	270.8	265.9	266.3	270.8	270.4	268.1
22.5°	384.1	384.1	369.6	347.6	322.2	305.9	300.8	305.9	315.5	315.5	316.6
25°	448.3	446.1	427.6	394.3	363.9	342.4	340.2	348.2	365.0	367.8	366.7
27.5°	520.5	512.6	488.3	447.3	407.2	382.9	379.1	393.6	416.9	424.7	427.6
30°	597.1	597.6	560.5	507.0	452.8	420.8	419.1	442.8	470.4	483.8	487.2
32.5°	685.4	682.6	639.9	572.8	503.1	461.3	459.7	492.4	527.1	544.6	546.9
35°	795.3	782.3	734.5	646.6	554.9	507.5	506.4	541.9	587.4	609.4	615.1
37.5°	896.1	889.3	834.7	723.1	613.9	554.3	552.0	598.2	652.2	677.6	685.4
40°	1013.8	1005.9	941.8	814.5	684.4	608.3	607.2	659.5	722.1	754.1	761.0
42.5°	1129.3	1124.1	1055.0	915.8	758.7	669.1	666.9	727.6	801.5	837.5	846.1
45°	1253.2	1240.3	1173.2	1019.4	841.5	739.6	740.7	806.6	897.8	940.0	948.5
47.5°	1359.0	1351.2	1294.8	1131.5	932.7	816.1	817.8	905.8	1016.6	1065.7	1069.6
50°	1474.6	1470.0	1414.3	1250.4	1042.6	911.3	914.1	1013.3	1147.3	1203.6	1223.3
52.5°	1570.3	1570.9	1528.6	1372.6	1150.6	1013.8	1022.4	1141.7	1289.2	1364.7	1376.6
55°	1663.8	1661.0	1636.3	1506.6	1279.1	1128.7	1138.3	1283.7	1458.8	1550.0	1565.8
57.5°	1731.5	1738.7	1741.5	1635.1	1403.6	1244.2	1275.8	1431.2	1643.5	1741.5	1755.6
60°	1778.1	1781.6	1821.0	1764.1	1538.2	1380.5	1421.6	1595.1	1817.0	1920.0	1929.1
62.5°	1773.7	1788.3	1864.9	1861.0	1669.0	1510.1	1562.4	1748.9	1967.9	2077.2	2078.9
65°	1713.3	1737.6	1866.0	1922.4	1777.0	1632.8	1700.4	1887.3	2092.0	2178.6	2156.1
67°	1626.1	1644.6	1809.6	1926.2	1835.5	1708.8	1794.5	1973.0	2140.9	2205.7	2151.0
67.5°	1589.6	1622.7	1788.9	1922.4	1841.9	1725.3	1809.6	1995.6	2151.0	2197.3	2138.7
70°	1413.2	1439.1	1625.6	1841.9	1844.1	1774.8	1872.7	2022.7	2112.8	2102.7	1996.8
72.5°	1174.4	1186.2	1390.7	1664.4	1759.6	1755.1	1854.2	1952.7	1951.7	1884.6	1756.1
75°	890.0	921.5	1105.6	1397.5	1583.4	1645.2	1735.3	1768.0	1690.3	1577.7	1422.1
77.5°	628.0	644.4	807.1	1098.8	1338.3	1453.7	1517.3	1502.1	1359.0	1226.1	1085.3
80°	406.7	422.5	534.5	787.5	1049.3	1172.6	1230.7	1185.7	1041.5	885.4	767.2
82.5°	246.1	259.7	338.5	528.4	771.0	909.1	938.4	895.0	734.5	604.9	511.9
85°	144.2	154.9	210.2	340.7	525.5	656.2	666.9	617.3	493.3	404.3	341.4
87.5°	87.9	93.6	132.9	218.0	348.6	442.8	464.7	418.5	332.4	270.4	229.7
90°	57.0	60.8	85.1	143.1	228.7	292.3	305.9	279.4	225.2	184.2	158.3
92.5°	38.8	42.8	59.2	95.8	150.3	193.8	202.2	183.7	151.5	129.5	115.4
95°	29.9	31.5	45.0	67.6	102.4	129.5	137.4	125.0	105.9	95.2	86.7
97.5°	24.3	25.3	36.0	52.5	74.4	93.0	96.3	87.2	78.3	71.5	67.6
100°	20.8	21.4	30.5	42.8	58.0	70.3	72.1	65.3	59.2	55.8	52.5
102.5°	18.5	19.1	26.5	36.7	47.3	55.8	55.8	50.7	45.0	42.8	41.1
105°	16.3	16.9	23.6	31.5	40.6	45.6	45.6	40.0	34.9	32.7	32.1
107.5°	14.6	15.2	20.3	27.6	34.3	38.3	37.6	32.1	26.5	24.3	24.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	13.6	13.6	18.1	24.3	29.3	32.7	31.0	26.0	20.3	18.5	19.1
112.5°	12.3	12.3	15.8	20.8	26.0	28.1	26.0	21.4	15.8	14.6	15.2
115°	11.9	11.9	14.1	18.5	22.5	23.6	22.0	17.4	12.9	11.9	12.3
117.5°	10.7	10.7	12.9	16.3	19.1	20.3	18.5	14.1	10.7	10.2	10.7
120°	10.2	10.2	11.3	14.1	16.9	17.4	15.8	11.9	9.1	9.1	9.6
122.5°	9.6	9.6	10.7	12.3	14.6	15.2	13.6	9.6	7.8	7.8	8.4
125°	9.6	9.6	9.6	11.3	12.3	12.9	11.3	8.4	7.4	7.4	7.8
127.5°	9.1	9.1	9.1	9.6	10.7	10.7	9.6	6.7	6.2	6.7	6.7
130°	8.4	8.4	8.4	9.1	9.6	9.1	7.8	5.6	5.6	6.2	6.2
132.5°	7.8	7.8	7.8	7.8	7.8	7.4	6.2	5.1	5.1	5.6	5.6
135°	7.4	7.4	7.4	6.7	6.7	6.2	5.1	4.0	4.5	5.1	5.1
137.5°	6.7	6.7	6.7	6.2	5.6	4.5	3.4	3.4	4.0	4.5	4.5
140°	6.2	6.2	5.6	5.1	4.5	3.4	2.2	2.9	3.4	3.4	4.0
142.5°	5.1	5.1	5.1	4.0	2.9	2.2	1.6	1.6	2.9	2.9	2.9
145°	4.5	4.5	4.0	3.4	2.2	1.1	0.5	1.1	1.6	2.2	2.2
147.5°	3.4	3.4	3.4	2.2	1.1	0.5	0.5	0.5	1.1	1.6	1.6
150°	2.9	2.9	2.2	1.6	0.5	0.0	0.0	0.5	1.1	1.1	1.1
152.5°	1.6	1.6	1.6	1.1	0.0	0.0	0.0	0.5	0.5	0.5	0.5
155°	1.1	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5
157.5°	0.5	0.5	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1
2.5°	114.4	113.7	113.1	112.1	111.5	110.4	109.2	108.8	108.2	108.2	108.2
5°	120.6	120.0	118.2	116.1	114.4	112.6	111.5	110.4	109.2	109.2	109.2
7.5°	130.7	129.5	126.1	124.0	121.1	118.8	117.1	115.4	115.0	115.0	114.4
10°	145.3	143.5	139.6	135.1	131.2	128.4	126.1	124.4	124.0	124.0	124.0
12.5°	164.5	162.2	156.0	150.3	144.2	140.2	137.4	136.9	137.4	137.4	136.9
15°	192.1	187.6	178.0	169.1	159.4	153.3	151.5	151.5	154.2	155.4	156.0
17.5°	225.2	219.6	206.7	192.1	177.4	169.1	167.9	171.2	177.4	180.2	179.8
20°	266.3	258.5	240.4	218.6	198.3	187.6	186.5	192.6	201.1	206.7	206.2
22.5°	312.6	305.2	278.3	246.1	218.0	205.6	203.8	214.1	226.5	232.7	234.8
25°	363.9	353.8	318.2	274.3	238.8	221.3	220.9	233.2	249.5	260.8	262.5
27.5°	419.6	407.8	361.1	302.5	256.8	234.3	233.7	250.6	273.2	287.3	287.7
30°	481.0	462.9	403.2	326.2	270.4	243.4	244.5	264.1	292.8	309.2	312.0
32.5°	541.9	521.6	441.5	349.3	279.4	247.8	249.5	274.3	305.9	326.7	328.9
35°	606.0	580.1	479.9	364.4	284.5	248.4	250.1	278.3	312.6	335.2	337.4
37.5°	670.9	639.9	511.9	375.8	284.5	245.0	247.3	277.0	312.0	335.2	336.9
40°	747.4	702.4	542.3	380.3	279.9	238.8	241.6	270.8	303.5	324.9	326.7
42.5°	826.8	772.8	571.1	379.1	272.0	231.0	233.7	260.8	289.6	307.0	308.7
45°	922.6	856.8	600.3	375.8	262.5	222.5	224.1	248.4	272.6	285.0	287.3
47.5°	1040.2	946.9	630.3	369.6	251.7	214.5	215.8	237.2	254.6	262.5	264.1
50°	1171.0	1053.3	662.9	361.1	241.6	207.2	208.9	226.5	238.8	242.3	242.7
52.5°	1325.9	1173.7	693.3	350.9	232.7	201.6	203.8	219.6	228.1	228.7	229.2
55°	1493.2	1305.5	720.4	338.5	223.6	197.6	202.2	216.9	222.5	221.9	222.5
57.5°	1667.8	1432.3	738.9	325.5	216.3	195.4	202.7	216.9	222.5	221.3	222.5
60°	1823.7	1541.0	741.8	308.7	210.7	195.4	206.2	220.9	225.8	225.8	227.0
62.5°	1934.7	1603.6	723.1	291.8	205.6	196.5	210.7	225.8	231.0	231.0	232.0
65°	1979.9	1602.4	682.6	273.8	201.6	198.3	215.1	231.6	235.4	235.4	236.6
67°	1946.0	1550.0	630.3	260.1	199.5	200.0	218.6	234.8	238.2	237.7	238.2
67.5°	1925.2	1531.5	619.0	256.2	198.9	200.0	219.0	235.4	238.8	238.2	238.2
70°	1752.9	1373.1	541.3	239.4	194.9	200.0	221.3	236.6	238.8	237.7	237.7
72.5°	1486.3	1149.0	454.0	222.5	190.4	198.3	220.3	234.8	236.1	234.3	234.3
75°	1182.3	898.9	372.8	207.9	184.2	194.4	216.3	229.7	231.6	229.7	228.1
77.5°	875.3	665.7	301.3	192.1	176.8	188.1	209.6	222.5	224.1	222.5	220.9
80°	610.6	473.1	242.7	176.2	167.3	179.1	200.0	211.2	213.4	212.3	209.6
82.5°	408.4	324.9	194.4	158.8	154.9	167.3	186.9	197.2	198.9	197.6	194.4
85°	278.8	226.5	160.5	140.2	141.4	153.3	170.0	178.0	179.8	178.0	174.6
87.5°	187.6	162.2	131.2	122.2	125.7	136.9	150.3	154.2	157.7	154.9	152.6
90°	135.7	122.2	105.9	104.3	109.9	119.5	128.4	128.9	133.5	132.4	127.9
92.5°	102.0	95.8	87.9	87.9	94.1	102.0	107.5	106.4	109.2	109.2	105.9
95°	80.6	77.2	73.2	74.9	80.6	86.1	87.9	85.6	88.5	89.0	87.9
97.5°	64.8	63.6	62.5	63.6	68.7	73.2	72.7	68.7	71.0	72.1	71.0
100°	52.5	51.8	52.5	54.6	58.6	61.4	59.6	55.8	57.4	57.4	57.4
102.5°	42.2	42.2	43.9	46.3	49.0	51.3	49.0	45.6	46.3	45.6	45.6
105°	33.2	33.7	36.0	38.8	41.1	42.2	40.0	36.7	36.0	34.3	34.9
107.5°	26.0	26.9	29.3	32.1	34.3	34.9	33.2	29.9	27.6	26.5	26.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	20.3	21.4	24.3	26.5	28.1	28.7	26.9	23.6	20.8	20.3	20.3
112.5°	16.3	17.4	19.8	22.0	23.6	23.6	22.0	19.1	15.8	15.2	15.2
115°	13.6	14.1	16.3	18.1	19.8	19.8	18.1	15.2	12.3	11.9	12.3
117.5°	11.3	11.9	13.6	15.2	16.3	16.3	14.6	11.9	9.6	9.6	9.6
120°	10.2	10.7	11.9	12.9	13.6	13.6	12.3	9.6	7.8	7.8	7.8
122.5°	9.1	9.1	10.2	10.7	11.9	11.3	10.2	7.8	6.2	6.7	6.7
125°	7.8	8.4	8.4	9.6	9.6	9.6	7.8	6.2	5.6	5.6	5.6
127.5°	7.4	7.4	7.8	7.8	8.4	7.8	6.2	4.5	4.5	5.1	5.1
130°	6.7	6.7	6.7	6.7	6.7	6.2	5.1	4.0	4.0	4.5	4.5
132.5°	5.6	6.2	6.2	5.6	5.6	5.1	4.0	2.9	3.4	3.4	3.4
135°	5.1	5.6	5.1	5.1	4.5	4.0	2.9	2.2	2.9	2.9	2.9
137.5°	4.5	4.5	4.5	4.0	3.4	2.9	2.2	1.6	2.2	2.2	2.2
140°	4.0	4.0	4.0	3.4	2.9	2.2	1.1	1.1	1.6	1.6	1.6
142.5°	2.9	3.4	2.9	2.2	1.6	1.1	0.5	0.5	1.1	1.6	1.1
145°	2.2	2.2	2.2	1.6	1.1	0.5	0.0	0.0	0.5	0.5	0.5
147.5°	1.6	1.6	1.6	1.1	0.5	0.5	0.0	0.0	0.0	0.5	0.5
150°	1.1	1.1	1.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.5	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)