

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: P240211

Luminaire Tested: **UTLD-AF24-50-D-U-T4W-FP**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-26)
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-FP
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4845.7 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Short - 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



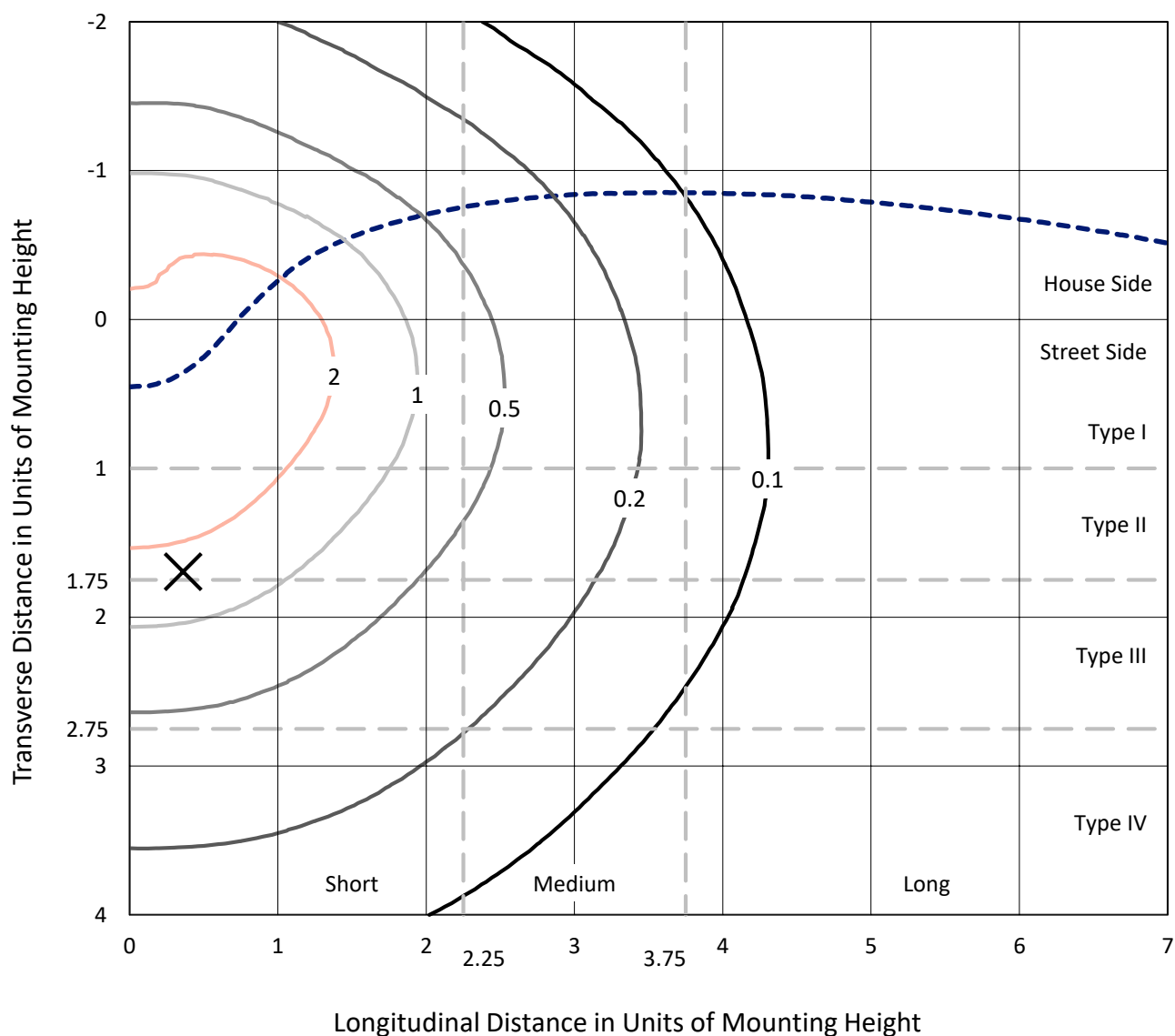
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

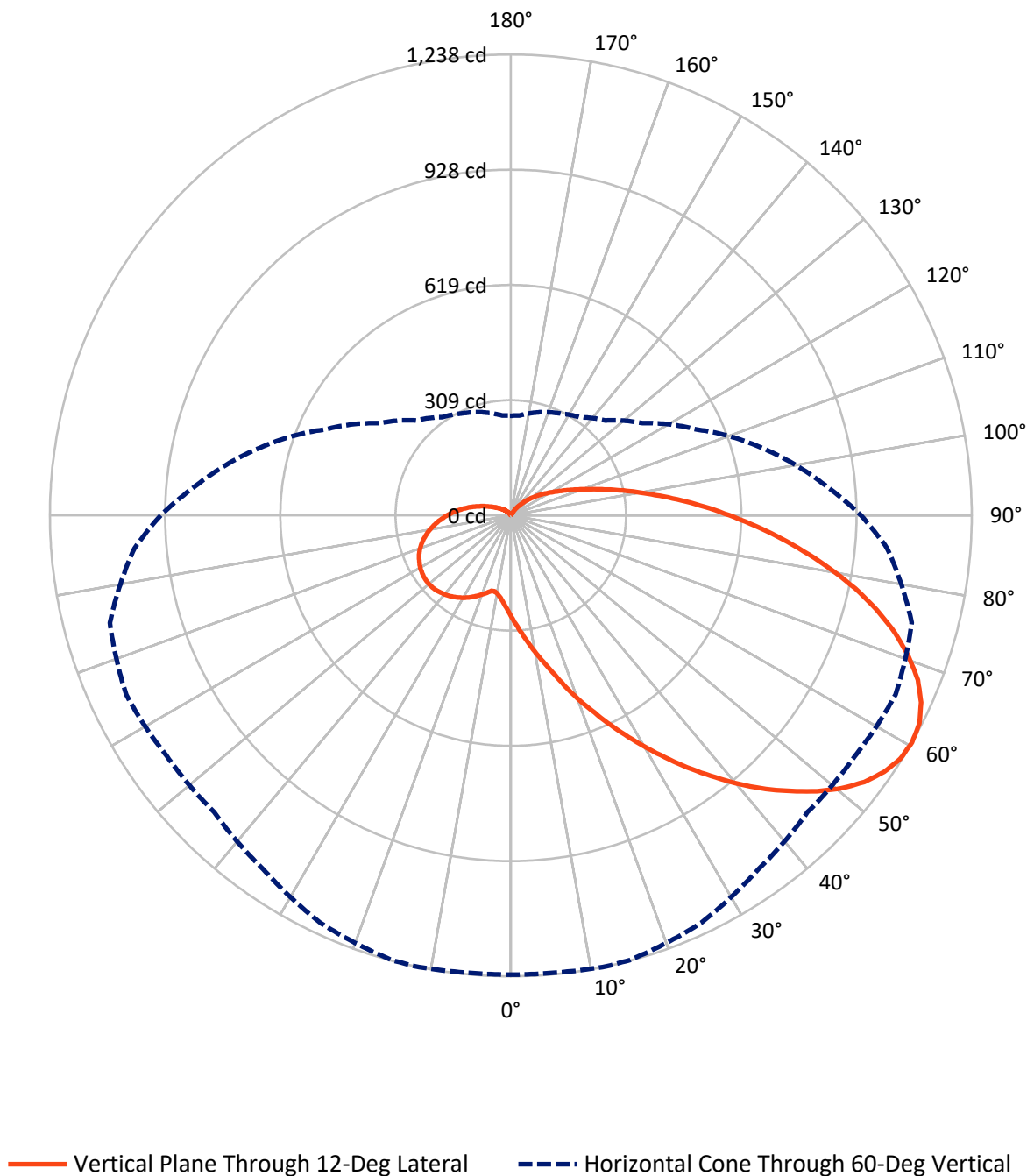


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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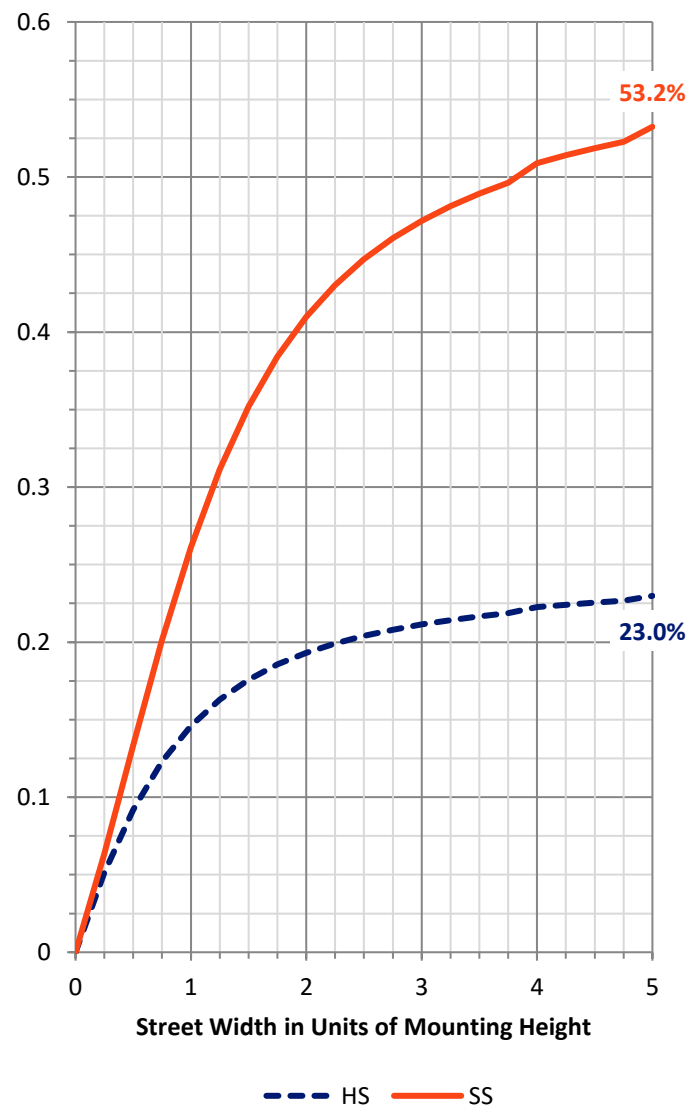
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1191.4	274.3	1465.7
	% Fixture	24.6	5.7	30.2
Street Side	Lumens	2811.4	568.6	3380.0
	% Fixture	58.0	11.7	69.8
Total	Lumens	4002.8	842.9	4845.7
	% Fixture	82.6	17.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.1	0.6
10°-20°	95.0	2.0
20°-30°	203.8	4.2
30°-40°	356.8	7.4
40°-50°	537.3	11.1
50°-60°	701.5	14.5
60°-70°	781.3	16.1
70°-80°	729.3	15.1
80°-90°	570.6	11.8
90°-100°	385.6	8.0
100°-110°	233.0	4.8
110°-120°	128.4	2.6
120°-130°	63.8	1.3
130°-140°	25.6	0.5
140°-150°	6.1	0.1
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4002.8	82.6
0°-180°	4845.7	100.0

Coefficient of Utilization



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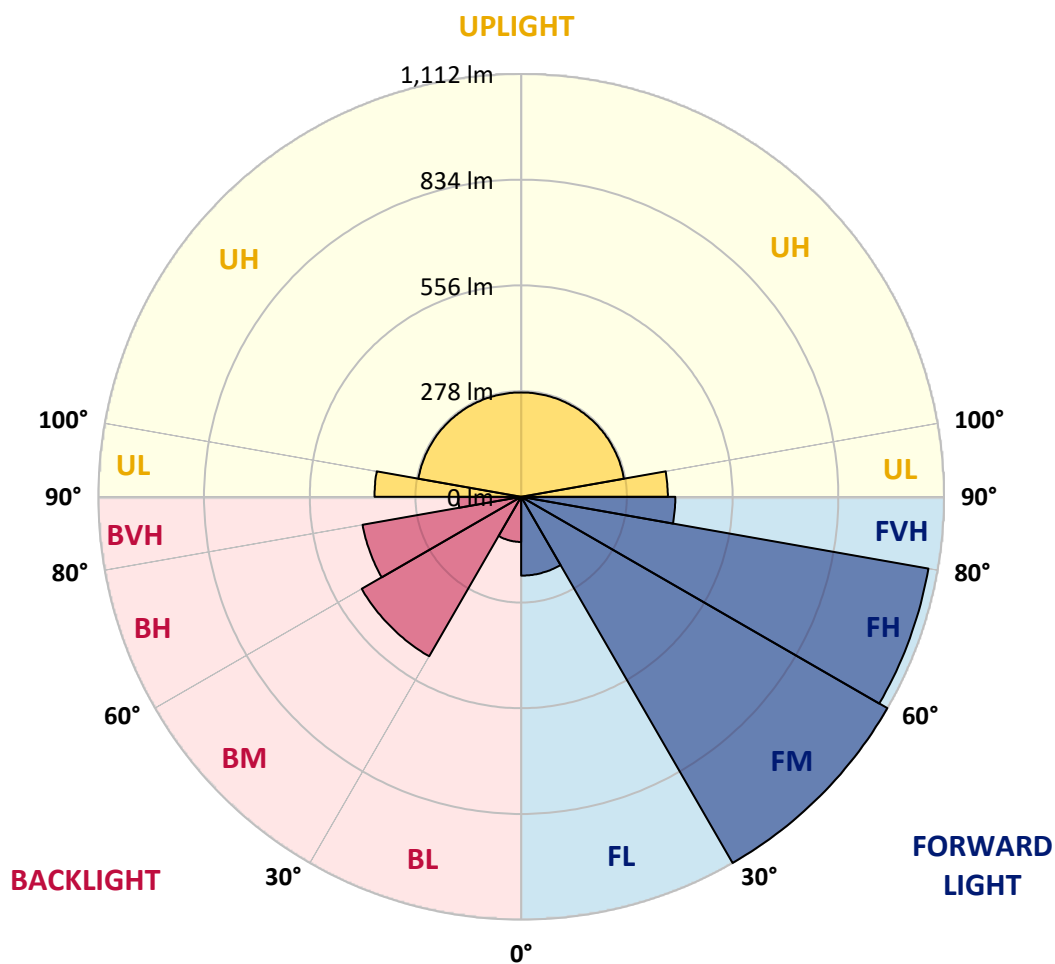
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	207.2	4.3			
FM	(30°-60°)	1111.7	22.9			
FH	(60°-80°)	1087.3	22.4			G1/1800
FVH	(80°-90°)	405.2	8.4			G3/500
BL	(0°-30°)	118.7	2.5	B1/500		
BM	(30°-60°)	484.0	10.0	B1/1000		
BH	(60°-80°)	423.3	8.7	B1/500		G1/500
BVH	(80°-90°)	165.4	3.4			G2/225
UL	(90°-100°)	385.6	8.0		U3/500	
UH	(100°-180°)	274.3	5.7		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2
2.5°	297.0	295.6	295.6	294.4	294.4	291.7	289.9	286.6	283.5	279.6	276.4
5°	320.7	320.7	319.4	319.4	316.8	312.3	307.8	302.1	296.2	289.9	282.1
7.5°	348.8	348.2	348.2	346.3	343.1	336.7	330.3	321.9	312.9	302.1	291.7
10°	377.7	377.1	377.1	375.1	371.3	363.7	354.0	344.3	332.9	318.8	304.6
12.5°	412.4	409.8	408.5	407.9	401.4	394.3	382.2	370.7	355.3	339.2	321.9
15°	448.9	448.3	444.4	442.5	436.1	425.1	413.7	399.6	384.1	366.2	345.0
17.5°	490.0	490.0	487.4	484.8	477.7	463.0	448.3	434.8	419.4	397.6	373.9
20°	534.2	534.2	531.0	527.1	518.1	505.3	490.6	474.5	455.9	432.2	403.3
22.5°	581.0	579.7	575.2	572.6	561.8	547.7	536.1	517.5	495.7	468.8	435.5
25°	630.4	628.5	624.0	621.4	608.6	597.7	584.2	562.4	537.4	506.7	469.4
27.5°	682.3	677.2	674.0	670.1	658.0	647.1	628.5	607.9	579.1	547.1	506.0
30°	732.3	730.4	726.6	721.5	710.5	697.8	677.2	654.8	626.6	591.3	545.7
32.5°	789.4	787.5	781.1	776.0	761.9	748.4	727.2	703.5	673.4	636.2	586.8
35°	846.5	843.9	836.9	831.1	819.6	799.7	774.7	752.3	722.1	684.3	631.1
37.5°	905.5	900.4	892.7	888.8	874.7	850.4	824.1	799.7	772.1	733.7	676.0
40°	961.3	958.7	949.8	945.3	929.9	899.8	870.8	849.0	824.1	783.7	722.7
42.5°	1018.3	1013.8	1004.9	1000.4	982.4	947.9	917.7	897.1	876.1	836.3	770.2
45°	1069.1	1067.1	1056.2	1053.6	1031.9	994.6	960.0	942.0	923.4	885.7	813.8
47.5°	1118.4	1113.9	1106.8	1103.7	1078.0	1035.7	1001.7	986.3	970.9	936.3	860.6
50°	1158.8	1158.2	1151.7	1148.0	1118.4	1072.3	1037.6	1025.4	1017.1	983.8	903.0
52.5°	1193.5	1192.8	1189.0	1185.1	1153.7	1105.6	1069.7	1060.7	1058.1	1027.3	940.1
55°	1217.8	1217.2	1215.9	1212.1	1181.3	1131.9	1096.6	1089.5	1092.8	1063.9	973.4
57.5°	1231.9	1231.3	1233.2	1230.0	1198.6	1149.8	1115.2	1113.3	1120.9	1094.7	998.5
60°	1233.2	1233.2	1237.7	1235.8	1207.6	1159.4	1126.8	1127.4	1139.6	1114.6	1014.6
62.5°	1221.7	1221.7	1231.3	1229.4	1205.0	1158.8	1128.7	1133.8	1149.2	1125.5	1020.3
65°	1196.6	1199.8	1210.8	1210.8	1191.5	1149.8	1122.3	1130.0	1148.6	1124.8	1016.4
67.5°	1156.9	1163.3	1178.7	1180.0	1166.5	1130.0	1105.6	1116.4	1137.0	1112.0	1000.4
70°	1107.5	1116.4	1132.5	1137.0	1131.3	1101.1	1080.5	1093.4	1113.3	1088.3	974.2
72.5°	1049.8	1058.1	1078.7	1083.8	1085.8	1062.0	1046.0	1061.3	1077.4	1050.5	937.5
75°	985.7	992.8	1015.8	1020.9	1029.3	1015.8	1005.6	1017.7	1035.7	1002.4	890.8
77.5°	908.1	920.2	945.9	951.7	967.7	961.3	953.6	968.3	981.8	946.5	836.3
80°	833.1	848.4	869.6	881.2	900.4	899.8	901.0	910.6	922.2	883.7	777.2
82.5°	756.8	767.6	792.7	803.5	833.1	840.0	840.0	852.9	856.7	813.8	713.7
85°	679.8	692.6	717.6	728.5	760.6	776.0	780.4	786.9	787.5	742.7	648.3
87.5°	611.8	619.5	643.2	656.7	691.3	709.3	715.0	722.7	717.6	673.4	581.0
90°	543.8	550.9	574.0	584.8	622.7	643.8	656.7	659.9	649.7	602.8	519.5
92.5°	480.4	487.4	509.2	522.0	559.2	581.6	593.8	596.4	584.8	537.4	459.8
95°	424.5	424.5	448.3	457.9	499.6	524.6	536.1	536.1	520.1	473.3	402.7
97.5°	371.9	373.3	391.8	404.1	442.5	468.8	481.0	481.6	459.2	414.9	354.7
100°	324.5	326.4	343.7	354.7	391.8	419.4	430.4	428.4	405.3	359.8	306.6
102.5°	285.4	285.4	300.1	309.1	344.3	371.9	382.2	378.4	354.7	311.1	267.4
105°	250.1	251.3	261.1	270.0	303.3	329.0	339.2	333.5	309.1	266.8	233.4
107.5°	221.9	221.3	227.7	234.1	265.5	289.9	298.8	291.7	266.2	228.3	202.6
110°	193.6	194.4	199.5	204.0	232.8	255.8	262.3	256.6	227.7	194.4	175.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	171.2	171.2	175.0	178.9	199.5	221.9	229.6	221.3	193.6	164.8	153.2
115°	152.0	152.6	154.0	155.8	173.2	193.6	200.1	189.9	162.9	141.1	133.4
117.5°	135.3	135.3	136.0	137.9	148.7	167.4	171.9	161.0	137.9	120.6	117.3
120°	121.2	120.6	119.9	120.6	128.3	141.7	146.2	135.3	114.8	104.5	102.0
122.5°	107.7	107.7	106.5	107.1	109.0	119.3	122.4	112.2	96.9	90.4	89.8
125°	94.9	94.9	93.6	93.0	92.4	97.5	98.7	91.0	80.2	78.3	77.6
127.5°	82.8	83.4	81.4	80.8	78.3	78.9	79.5	72.4	66.1	66.7	67.3
130°	72.4	72.4	70.6	69.3	65.4	62.2	61.0	56.5	53.9	56.5	58.3
132.5°	62.8	61.6	60.3	59.0	53.2	48.7	46.1	42.4	43.6	47.5	49.4
135°	52.6	52.0	50.0	49.4	43.6	36.5	32.0	30.8	34.7	39.1	40.4
137.5°	43.0	43.0	41.0	39.8	33.3	26.3	21.8	21.8	26.3	30.8	33.3
140°	34.0	34.0	32.0	30.8	25.0	18.0	13.5	14.1	19.2	23.7	25.7
142.5°	25.7	25.7	23.7	23.1	18.0	11.6	7.7	9.0	13.5	17.3	19.2
145°	18.6	18.0	16.7	16.1	11.6	7.1	3.9	5.1	8.3	11.6	13.5
147.5°	12.2	12.2	10.9	10.2	7.1	3.9	1.3	2.6	5.1	7.1	9.0
150°	7.1	7.1	6.4	5.7	3.9	1.3	0.0	1.3	2.6	3.9	5.1
152.5°	3.9	3.9	3.2	3.2	1.3	0.6	0.0	0.0	0.6	1.9	1.9
155°	1.3	1.3	1.3	1.3	0.6	0.0	0.0	0.0	0.0	0.6	0.6
157.5°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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°	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2
2.5°	274.5	272.5	268.7	265.5	262.3	258.4	256.6	254.6	253.3	252.1	252.1
5°	278.3	274.5	267.4	260.3	254.0	248.2	243.1	239.2	237.3	236.0	235.4
7.5°	286.6	280.9	269.3	258.4	248.8	239.9	232.8	227.0	223.8	221.9	221.3
10°	297.6	289.2	274.5	259.7	246.9	235.4	225.8	218.7	214.2	212.3	211.0
12.5°	312.3	302.1	282.8	264.2	247.6	233.4	221.3	213.6	209.1	206.5	206.5
15°	334.7	321.3	297.6	272.5	252.1	234.7	221.3	212.9	209.7	208.4	207.8
17.5°	360.4	345.0	316.2	287.3	261.1	239.2	227.0	221.9	217.4	215.4	215.4
20°	388.6	370.0	336.7	304.0	274.5	252.1	238.6	230.3	225.0	223.2	222.5
22.5°	416.9	397.6	358.4	321.3	288.6	268.7	249.5	239.2	232.8	230.3	229.6
25°	448.9	427.7	381.6	339.9	308.4	286.0	263.6	248.8	240.5	237.3	236.6
27.5°	483.5	458.5	407.2	359.8	327.7	301.4	276.4	256.6	248.2	244.4	243.7
30°	519.5	491.8	432.9	380.3	346.3	314.9	288.6	266.2	255.2	250.7	250.1
32.5°	557.3	524.6	460.4	404.7	363.7	327.0	298.8	275.1	261.7	256.6	256.6
35°	599.7	561.8	487.4	427.1	379.6	339.2	307.8	283.5	267.4	262.3	262.3
37.5°	640.1	598.9	516.3	451.4	394.3	348.8	314.9	291.1	273.2	266.8	266.8
40°	683.0	636.2	543.8	471.4	407.2	356.6	321.3	297.0	277.7	271.9	270.7
42.5°	724.7	673.4	573.4	491.8	418.1	362.9	326.4	302.1	281.5	274.5	273.8
45°	768.2	710.5	601.5	508.5	427.1	367.4	329.0	305.2	286.0	277.0	275.8
47.5°	806.1	745.8	629.1	523.3	434.1	370.0	330.9	307.8	288.6	278.3	277.0
50°	843.9	777.2	652.2	535.5	438.0	371.3	331.5	308.4	290.5	278.3	277.0
52.5°	877.9	806.8	672.1	543.8	440.0	370.7	330.9	308.4	291.1	277.0	275.8
55°	906.1	830.4	686.2	548.9	440.0	368.8	329.0	307.2	290.5	275.8	273.8
57.5°	927.3	846.5	695.8	550.2	436.7	364.9	325.8	305.2	288.6	273.2	270.7
60°	940.1	855.5	699.0	547.1	431.6	360.4	321.9	302.7	286.6	269.3	267.4
62.5°	944.0	856.7	695.8	540.6	424.5	354.0	316.2	298.2	282.8	264.8	262.9
65°	937.5	849.8	686.8	530.4	414.9	346.3	310.4	293.1	278.3	259.7	257.8
67.5°	920.2	834.3	670.7	516.3	404.1	337.4	304.0	287.3	273.2	254.0	250.1
70°	894.6	811.2	650.3	498.9	391.2	327.7	296.2	280.3	266.2	247.6	243.7
72.5°	857.4	779.8	623.4	477.7	376.4	317.4	286.6	271.9	258.4	239.9	234.7
75°	812.5	739.4	591.3	455.9	361.0	305.2	277.0	262.9	249.5	230.9	226.4
77.5°	762.5	697.0	556.7	431.0	343.1	293.1	266.8	253.3	239.2	221.3	214.8
80°	708.0	647.7	518.8	405.3	326.4	279.6	255.2	242.4	228.3	211.0	204.0
82.5°	649.0	596.4	481.0	379.6	307.8	266.2	243.7	230.9	216.1	199.5	192.4
85°	591.3	543.8	441.2	352.1	289.9	252.1	230.9	218.0	204.6	187.3	180.9
87.5°	531.6	490.6	402.1	325.1	271.9	238.6	218.7	205.2	191.1	175.0	169.9
90°	479.7	440.6	365.5	299.5	253.3	223.8	205.8	191.7	178.3	162.9	158.4
92.5°	424.5	392.5	329.6	275.1	236.0	209.7	193.0	179.5	164.8	150.1	146.9
95°	377.1	350.8	297.0	250.7	217.4	196.2	180.2	166.1	151.4	137.3	135.3
97.5°	331.5	309.7	264.8	228.3	201.3	182.1	166.7	153.2	137.9	125.0	123.8
100°	291.1	271.9	236.0	207.8	184.0	168.7	154.6	140.5	125.0	112.8	112.8
102.5°	254.0	239.2	210.3	186.6	168.7	154.0	141.1	126.9	111.6	101.4	102.0
105°	223.8	209.7	186.0	168.0	153.2	139.8	127.7	113.5	98.7	90.4	91.0
107.5°	195.0	184.0	164.8	149.5	137.9	126.9	114.2	100.7	85.9	80.8	81.4
110°	169.9	161.6	146.2	133.4	124.4	114.2	102.6	88.5	75.0	71.8	71.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	148.1	141.1	129.5	119.3	110.3	102.0	89.8	76.9	64.1	62.8	62.8
115°	129.5	124.4	113.5	105.2	98.7	90.4	79.5	66.1	55.8	55.1	55.8
117.5°	113.5	109.0	100.0	93.0	87.3	79.5	69.3	56.5	47.5	48.1	48.7
120°	99.4	96.2	88.5	82.8	76.9	69.9	59.0	47.5	41.6	42.4	42.4
122.5°	87.9	84.7	78.3	72.4	67.3	60.3	50.6	39.8	35.9	37.2	37.2
125°	76.3	74.4	68.0	62.8	57.7	50.6	41.6	32.7	30.8	32.0	32.0
127.5°	66.1	64.8	59.6	53.9	48.7	42.4	34.0	26.9	26.3	27.6	27.6
130°	57.1	55.8	51.4	46.1	40.4	34.7	26.3	21.8	22.4	23.7	24.3
132.5°	48.7	48.1	43.6	37.8	32.7	26.9	20.6	18.0	19.2	20.6	20.6
135°	40.4	39.8	36.5	31.4	25.7	20.6	15.3	14.1	16.1	17.3	17.3
137.5°	33.3	32.0	29.5	24.3	19.2	14.7	10.9	11.6	12.8	14.1	14.1
140°	26.3	25.7	23.1	18.6	13.5	9.6	7.7	9.0	10.9	11.6	11.6
142.5°	19.2	19.2	16.7	12.8	8.3	5.7	5.1	6.4	8.3	9.0	9.0
145°	13.5	13.5	11.6	8.3	5.1	2.6	2.6	4.5	5.7	6.4	7.1
147.5°	9.0	8.3	7.1	5.1	2.6	0.6	1.3	3.2	3.9	4.5	4.5
150°	5.1	5.1	3.9	2.6	1.3	0.0	0.6	1.3	1.9	2.6	3.2
152.5°	1.9	1.9	1.3	0.6	0.6	0.0	0.0	0.0	0.6	1.3	1.3
155°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.6	0.0	0.6	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)