

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: P266436

Luminaire Tested: **UTLD-AF24-70-D-U-SL3-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-27)
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-SL3-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5201.8 lumens
Efficiency: N/A
Efficacy: 70.3 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): 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

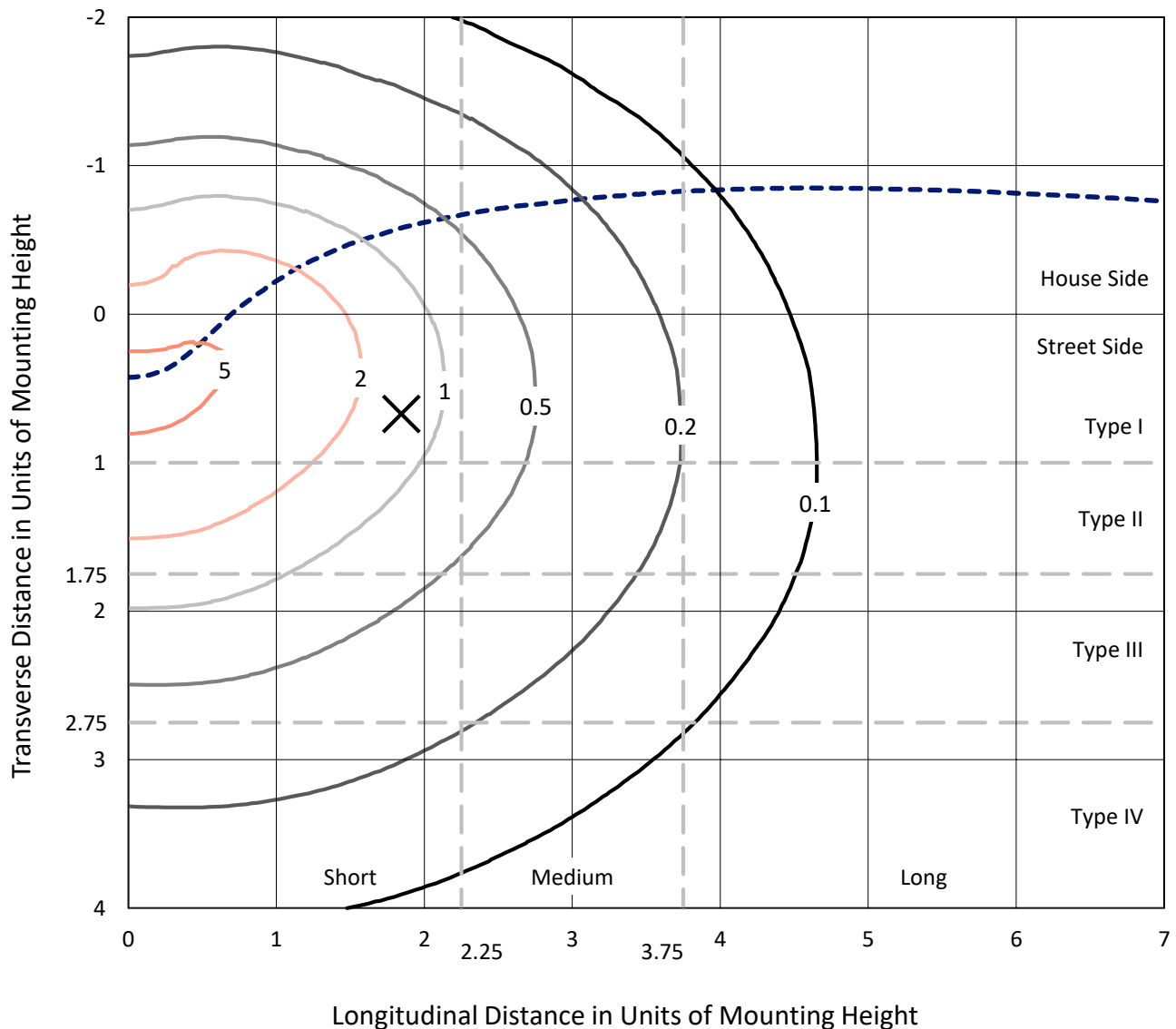


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

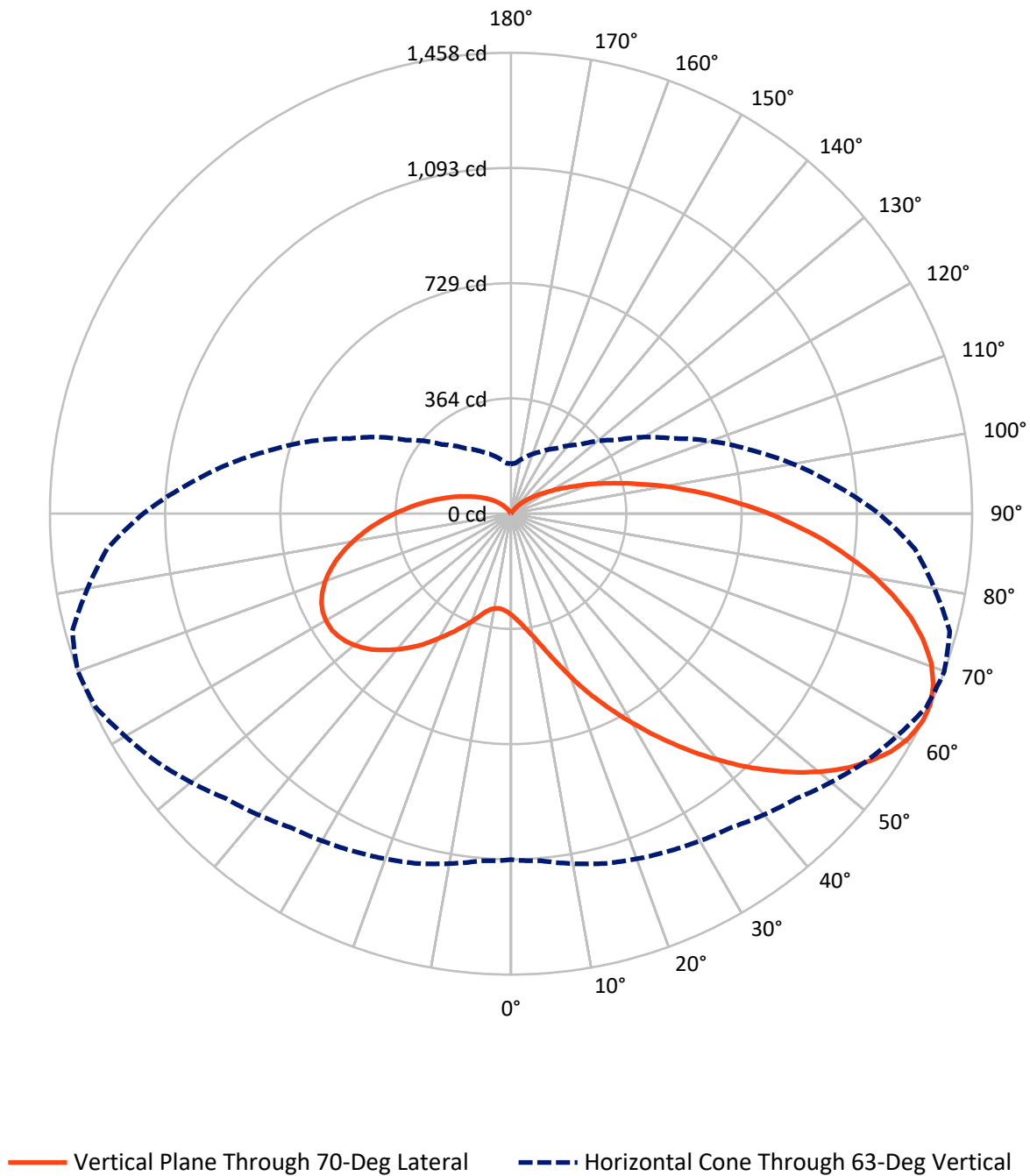


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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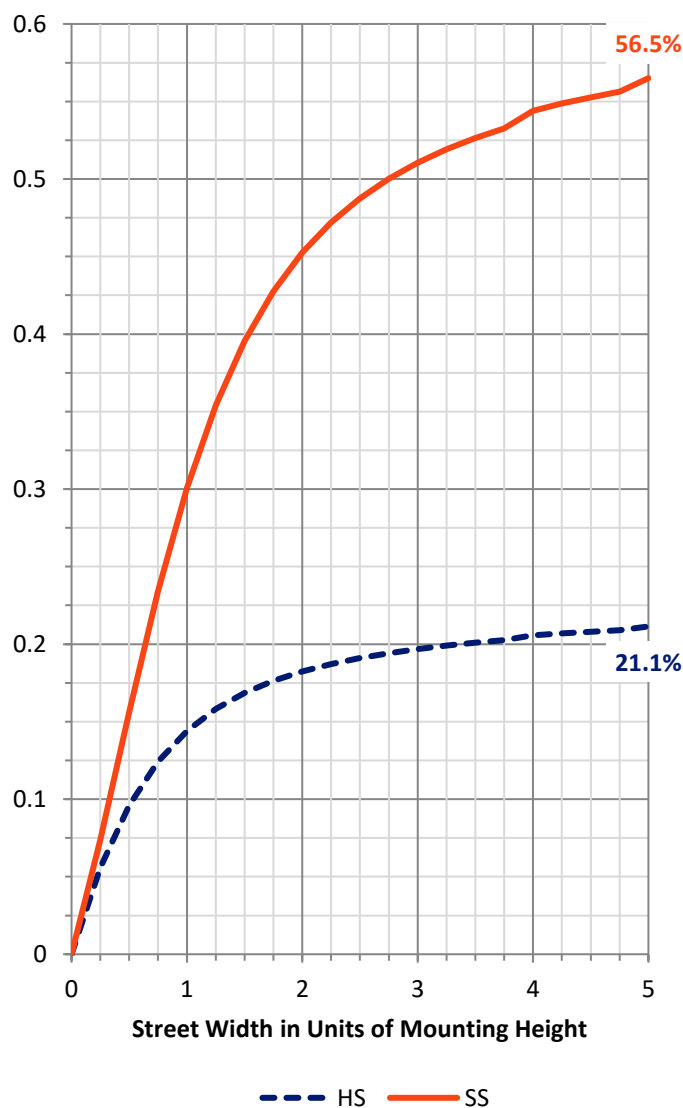
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1168.3	282.7	1451.1
	% Fixture	22.5	5.4	27.9
Street Side	Lumens	3158.1	592.7	3750.8
	% Fixture	60.7	11.4	72.1
Total	Lumens	4326.4	875.4	5201.8
	% Fixture	83.2	16.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.8	0.6
10°-20°	111.1	2.1
20°-30°	236.1	4.5
30°-40°	407.1	7.8
40°-50°	600.6	11.5
50°-60°	764.4	14.7
60°-70°	829.7	15.9
70°-80°	758.7	14.6
80°-90°	586.9	11.3
90°-100°	395.5	7.6
100°-110°	240.6	4.6
110°-120°	134.8	2.6
120°-130°	68.6	1.3
130°-140°	28.4	0.5
140°-150°	7.0	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4326.4	83.2
0°-180°	5201.8	100.0

Coefficient of Utilization



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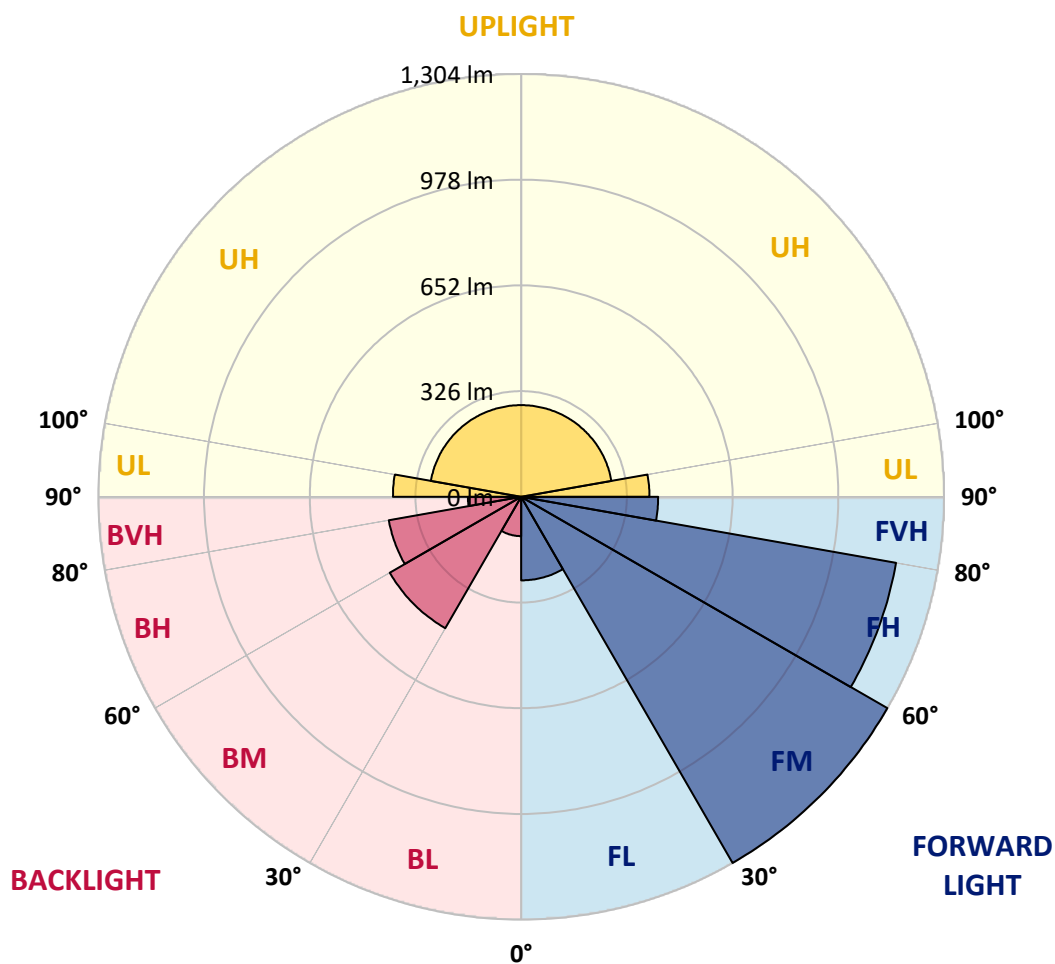
CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-FP-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	257.7	5.0			
FM	(30°-60°)	1304.0	25.1			
FH	(60°-80°)	1173.8	22.6			G1/1800
FVH	(80°-90°)	422.5	8.1			G3/500
BL	(0°-30°)	121.3	2.3	B1/500		
BM	(30°-60°)	468.0	9.0	B1/1000		
BH	(60°-80°)	414.6	8.0	B1/500		G1/500
BVH	(80°-90°)	164.4	3.2			G2/225
UL	(90°-100°)	395.5	7.6		U3/500	
UH	(100°-180°)	282.7	5.4		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0
2.5°	357.7	357.0	356.4	352.9	351.3	346.4	342.2	337.3	334.3	331.6	325.8
5°	395.3	393.8	391.8	388.2	381.9	374.9	366.2	356.4	351.3	345.8	334.3
7.5°	432.2	431.5	430.7	423.7	417.4	405.9	393.8	379.8	372.6	363.5	346.4
10°	472.6	473.9	469.8	463.3	452.7	440.7	425.1	405.9	396.7	386.8	364.2
12.5°	518.6	518.0	514.4	503.7	492.5	478.9	459.8	439.2	428.6	415.1	386.1
15°	565.4	562.5	558.2	551.2	537.0	521.5	500.9	477.4	465.4	450.6	418.0
17.5°	614.3	612.1	609.3	597.3	585.2	566.1	549.0	523.5	508.7	492.5	454.8
20°	663.0	661.7	658.2	648.9	634.1	617.0	600.7	573.8	556.9	537.0	494.4
22.5°	714.8	714.2	710.6	700.0	687.9	677.3	656.8	626.3	609.9	586.0	536.3
25°	768.1	768.7	762.3	752.4	743.8	733.9	712.7	680.8	661.1	636.2	580.2
27.5°	825.4	822.6	818.3	809.1	801.9	790.7	768.7	736.2	716.9	690.1	627.7
30°	878.5	879.3	870.0	864.3	859.4	848.8	828.1	794.9	773.7	748.8	677.3
32.5°	935.9	933.1	926.7	921.0	917.4	906.1	886.9	857.9	836.7	805.5	727.5
35°	986.2	985.5	978.4	979.8	970.6	961.4	947.3	920.4	898.3	868.7	783.6
37.5°	1037.9	1036.6	1031.6	1033.0	1022.4	1015.3	1006.0	982.7	964.2	933.8	841.6
40°	1086.8	1083.3	1079.8	1081.9	1074.1	1069.2	1064.1	1047.9	1028.6	996.8	899.1
42.5°	1126.5	1125.8	1123.6	1127.2	1119.4	1118.0	1120.8	1112.3	1095.4	1062.8	957.1
45°	1160.5	1160.5	1163.3	1165.5	1158.4	1160.5	1174.7	1172.5	1159.1	1126.5	1017.4
47.5°	1187.4	1186.8	1193.8	1196.6	1193.0	1200.9	1224.2	1234.1	1222.9	1192.4	1073.4
50°	1203.0	1203.0	1215.8	1219.3	1220.0	1234.9	1267.5	1289.4	1281.6	1252.5	1126.5
52.5°	1207.2	1208.7	1226.4	1234.1	1237.0	1260.4	1305.0	1338.4	1335.5	1307.8	1174.7
55°	1200.1	1202.3	1225.6	1237.8	1246.2	1278.7	1334.7	1381.6	1379.3	1353.8	1214.2
57.5°	1180.4	1183.2	1212.9	1230.6	1246.2	1288.7	1356.7	1415.5	1418.3	1394.3	1248.4
60°	1149.1	1152.6	1188.7	1212.3	1236.2	1288.0	1368.1	1437.5	1443.8	1419.1	1271.0
62.5°	1106.0	1110.1	1151.9	1184.5	1217.2	1278.1	1368.7	1448.1	1456.6	1434.7	1281.6
63°	1094.6	1102.4	1145.6	1178.1	1212.3	1274.5	1368.1	1448.8	1457.9	1436.1	1282.3
65°	1050.7	1059.2	1108.8	1147.0	1188.1	1258.3	1358.1	1445.4	1456.6	1435.3	1278.7
67.5°	989.0	1000.4	1052.9	1099.5	1151.9	1229.2	1336.1	1427.5	1440.3	1419.9	1263.1
70°	918.8	934.4	989.8	1047.9	1106.0	1190.3	1302.2	1397.1	1409.1	1387.9	1232.0
72.5°	848.0	865.1	925.3	987.5	1052.9	1142.0	1254.8	1351.1	1362.4	1344.0	1188.7
75°	776.5	789.3	851.7	923.8	994.8	1086.1	1202.3	1292.2	1305.0	1283.0	1135.0
77.5°	700.7	718.4	782.9	855.8	931.6	1028.6	1139.9	1225.0	1232.7	1210.7	1065.5
80°	626.3	646.2	709.2	787.9	867.9	961.4	1067.6	1150.5	1154.9	1131.4	991.2
82.5°	561.1	579.5	644.1	719.8	800.6	896.1	993.3	1064.1	1066.9	1045.0	913.9
85°	498.1	514.4	576.1	654.0	735.4	823.9	916.8	976.9	980.5	954.3	832.5
87.5°	441.3	454.2	513.7	591.5	670.9	758.1	835.3	885.5	886.3	860.8	751.7
90°	392.5	400.3	458.3	534.9	609.9	687.9	760.1	804.2	798.5	771.6	668.1
92.5°	344.9	351.3	404.5	478.9	553.4	623.5	686.6	714.8	708.5	685.0	593.7
95°	306.9	309.6	358.6	428.6	495.2	561.8	615.7	636.2	629.8	605.1	519.9
97.5°	267.9	272.0	316.7	380.4	444.9	505.1	549.0	562.5	550.5	526.3	455.5
100°	238.8	240.1	277.8	338.7	399.6	451.9	486.7	495.2	482.5	460.6	396.7
102.5°	211.8	211.1	245.1	301.8	356.4	400.3	430.1	429.3	415.8	396.7	344.3
105°	188.5	187.7	213.9	266.3	315.2	354.2	376.2	373.3	360.0	341.4	299.7
107.5°	166.5	168.0	187.0	233.1	276.9	311.7	328.1	321.7	309.6	292.6	260.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	150.1	150.1	165.1	204.8	245.1	273.4	286.2	276.9	265.7	248.7	224.5
112.5°	135.4	135.4	146.0	178.6	215.4	240.8	249.4	237.3	223.9	212.5	194.8
115°	121.9	121.9	128.9	155.1	187.7	208.9	213.9	201.2	189.9	181.4	170.0
117.5°	110.5	110.5	114.8	133.2	162.2	182.0	185.0	170.8	163.0	154.5	148.1
120°	99.9	100.6	102.0	114.1	138.2	155.1	156.6	143.1	136.7	132.5	128.9
122.5°	90.6	90.6	91.4	98.5	117.6	131.8	131.8	120.5	116.2	114.8	112.0
125°	82.1	82.1	82.1	85.0	97.7	109.1	107.6	100.6	98.5	98.5	97.0
127.5°	74.4	73.8	72.9	73.8	80.0	87.9	87.9	83.0	83.0	83.6	84.4
130°	66.7	65.8	64.5	63.1	63.8	69.3	68.7	67.4	68.7	70.8	72.3
132.5°	58.7	58.7	56.7	53.1	51.1	52.5	53.1	53.9	56.0	58.7	60.9
135°	51.1	51.1	48.9	43.9	39.6	38.9	38.3	41.9	45.4	48.1	50.3
137.5°	43.2	43.2	41.1	35.5	29.7	26.9	26.2	31.9	35.5	38.3	40.3
140°	36.1	35.5	33.2	27.7	21.3	17.0	17.0	22.6	26.2	29.0	31.9
142.5°	28.3	28.3	26.2	21.3	14.2	9.9	10.6	15.6	18.4	20.5	22.6
145°	21.3	21.3	19.1	14.2	8.5	5.0	5.7	9.9	12.0	14.2	16.3
147.5°	14.9	14.9	12.8	9.3	4.2	1.3	2.9	5.7	7.0	8.5	9.9
150°	9.3	9.3	7.7	5.0	2.2	0.0	0.7	2.9	3.6	4.2	5.7
152.5°	5.0	5.0	3.6	2.2	0.7	0.0	0.0	0.7	1.3	2.2	2.9
155°	2.2	2.2	1.3	0.7	0.0	0.0	0.0	0.0	0.0	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°	0.0	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°	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0
2.5°	323.1	320.2	313.9	308.2	303.2	298.2	294.0	290.5	289.8	287.6	288.4
5°	328.1	322.3	310.4	299.7	288.4	279.2	272.0	265.7	260.7	258.6	258.0
7.5°	337.9	328.7	310.4	293.2	277.8	263.6	251.5	242.4	236.7	233.1	233.7
10°	352.1	340.1	315.2	291.9	269.9	250.7	235.3	223.9	215.4	211.8	211.8
12.5°	370.6	356.4	324.5	294.0	266.3	242.4	222.5	208.2	200.5	195.6	195.6
15°	400.3	379.8	340.1	301.1	266.3	237.3	215.4	199.9	192.6	189.2	188.5
17.5°	432.2	409.4	362.0	315.2	272.7	236.7	214.7	201.2	192.6	188.5	188.5
20°	466.8	440.0	385.5	331.6	283.3	245.1	220.4	204.1	193.4	187.7	187.0
22.5°	504.5	474.7	410.2	348.5	296.1	259.3	227.5	206.3	193.4	187.7	187.0
25°	546.2	510.1	435.7	367.6	313.1	272.0	236.0	208.9	193.4	186.3	185.6
27.5°	588.7	548.3	464.1	386.1	330.8	284.1	243.7	211.1	193.4	185.6	185.0
30°	634.8	586.7	491.7	407.4	347.1	294.7	250.1	213.3	193.4	185.0	184.2
32.5°	680.1	628.5	521.5	431.5	362.7	303.2	255.7	217.5	194.2	184.2	182.7
35°	730.4	673.0	553.4	455.5	376.8	311.1	260.7	220.4	193.4	182.7	182.0
37.5°	782.9	716.9	582.5	476.8	388.2	316.7	263.6	222.5	193.4	182.0	180.6
40°	835.3	761.7	613.5	498.1	398.8	321.7	266.3	224.5	192.6	180.6	179.2
42.5°	886.3	805.5	644.1	515.7	407.4	325.1	267.9	226.1	192.6	179.2	177.9
45°	938.6	850.2	675.9	532.8	413.8	326.7	267.9	226.1	193.4	177.9	176.3
47.5°	989.0	891.9	704.9	546.2	418.7	327.3	267.9	226.1	193.4	176.3	174.4
50°	1033.7	930.3	729.1	557.6	421.6	327.3	267.1	226.1	193.4	174.4	172.1
52.5°	1076.9	963.5	751.7	565.4	422.9	325.8	265.7	224.5	193.4	172.1	170.0
55°	1111.7	993.3	767.3	570.3	421.6	323.7	262.8	223.1	192.6	170.0	167.3
57.5°	1139.2	1014.5	779.3	571.7	418.7	320.2	260.0	221.1	191.2	167.3	165.1
60°	1156.9	1026.6	782.9	568.8	414.5	315.2	256.5	218.8	189.2	164.4	161.5
62.5°	1163.3	1030.8	781.4	563.2	408.1	310.4	253.0	216.1	187.0	160.8	158.0
63°	1163.3	1030.1	780.7	561.8	405.9	308.8	252.2	215.4	186.3	160.1	157.3
65°	1159.1	1024.4	773.7	553.4	399.6	303.9	248.7	212.5	185.0	158.0	154.5
67.5°	1141.3	1009.5	757.4	540.6	389.0	296.9	243.0	208.2	181.4	154.5	150.9
70°	1113.0	984.1	735.4	523.5	377.6	289.1	237.3	204.1	177.9	150.9	146.7
72.5°	1071.1	948.6	707.8	503.7	364.2	280.5	231.0	199.1	172.8	146.7	141.8
75°	1019.4	905.4	675.2	481.0	350.7	270.6	224.5	193.4	168.0	142.4	136.1
77.5°	958.6	855.1	637.6	457.6	335.1	260.7	216.9	187.0	163.0	138.2	130.3
80°	890.6	795.5	597.3	431.5	318.8	250.1	208.9	180.6	155.9	132.5	124.7
82.5°	822.6	736.2	554.8	404.5	302.5	239.5	200.5	173.6	149.5	126.8	119.0
85°	748.8	673.8	512.9	376.8	285.5	227.5	192.0	165.7	143.1	121.1	112.6
87.5°	678.0	610.7	466.8	350.0	269.2	216.9	183.6	158.0	135.4	114.1	107.6
90°	609.3	550.5	427.2	322.3	251.5	204.8	174.4	149.5	127.5	107.0	102.0
92.5°	542.7	489.5	383.9	296.9	235.3	193.4	164.4	140.9	119.7	100.6	96.4
95°	480.4	436.4	347.9	271.4	219.6	182.0	155.1	133.2	111.2	92.9	90.0
97.5°	421.6	386.1	312.4	249.4	202.6	170.8	145.3	124.0	102.8	85.7	84.4
100°	372.0	341.4	279.2	226.7	187.7	159.4	136.1	114.8	94.2	78.6	78.6
102.5°	325.1	298.2	247.9	205.4	172.8	147.3	125.5	105.6	85.7	72.3	72.3
105°	284.1	262.1	221.7	186.3	158.7	136.1	115.5	96.4	76.5	65.8	65.8
107.5°	246.6	229.5	197.0	168.6	144.5	124.0	105.6	86.4	67.4	59.5	60.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	216.1	202.6	175.0	150.9	131.1	114.1	96.4	77.3	58.7	53.9	53.9
112.5°	187.0	176.3	154.5	136.1	119.0	103.5	86.4	68.0	51.7	48.9	48.9
115°	163.6	155.1	136.7	121.1	107.0	92.9	76.5	58.7	44.6	43.2	43.9
117.5°	143.1	136.1	121.9	109.1	96.4	83.0	68.0	50.3	38.9	38.9	38.9
120°	124.7	119.7	107.0	96.4	85.7	72.9	58.7	42.5	34.0	34.0	34.8
122.5°	109.9	104.8	95.6	85.0	75.1	63.8	50.3	35.5	29.7	30.5	31.3
125°	95.0	92.0	83.6	74.4	65.1	53.9	41.9	29.0	26.2	26.9	27.7
127.5°	83.0	80.8	72.3	64.5	56.0	45.4	34.0	23.4	22.0	23.4	24.1
130°	70.8	69.3	63.1	55.2	46.7	37.5	26.9	19.1	19.1	20.5	20.5
132.5°	60.2	58.7	53.1	45.4	38.3	29.0	20.5	15.6	16.3	17.6	17.6
135°	50.3	48.9	43.9	37.5	29.7	22.0	15.6	12.8	14.2	14.9	14.9
137.5°	41.1	39.6	35.5	29.0	22.0	15.6	11.3	9.9	11.3	12.8	12.8
140°	31.3	31.3	27.7	22.0	15.6	10.6	7.7	7.7	9.3	9.9	9.9
142.5°	23.4	22.6	20.5	15.6	9.9	6.4	5.0	5.7	7.0	7.7	7.7
145°	16.3	15.6	14.2	10.6	5.7	3.6	2.9	4.2	5.0	5.7	5.7
147.5°	10.6	9.9	9.3	6.4	2.9	1.3	1.3	2.9	3.6	4.2	4.2
150°	5.7	5.7	5.0	2.9	1.3	0.0	0.7	1.3	2.2	2.2	2.2
152.5°	2.9	2.9	2.2	1.3	0.7	0.0	0.0	0.0	0.7	0.7	0.7
155°	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.7	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	0.7	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)