

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: P266443

Luminaire Tested: **UTLD-AF24-70-D-U-T2U-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-28)
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-T2U-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5455.1 lumens
Efficiency: N/A
Efficacy: 73.7 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: B2 - 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



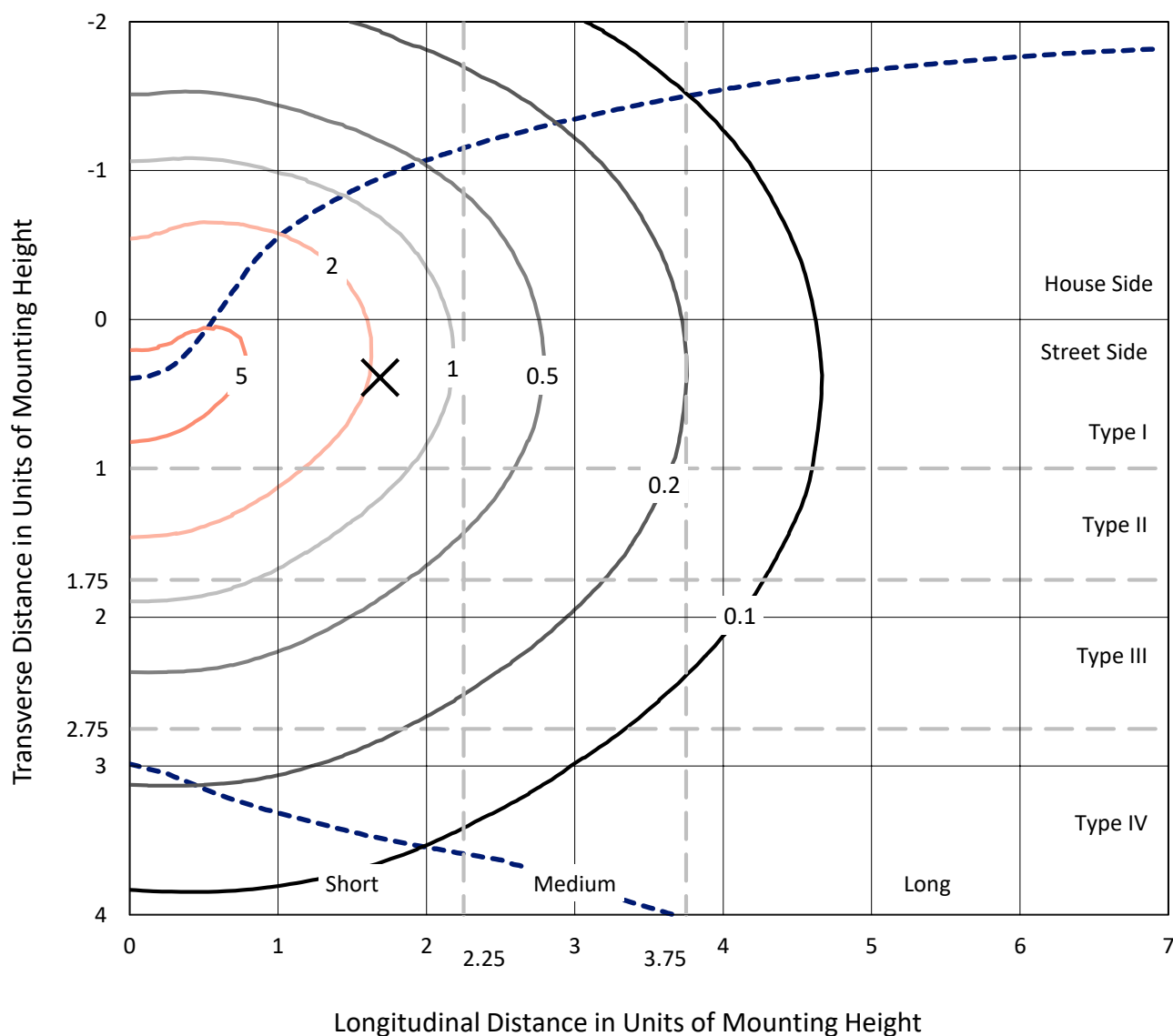
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

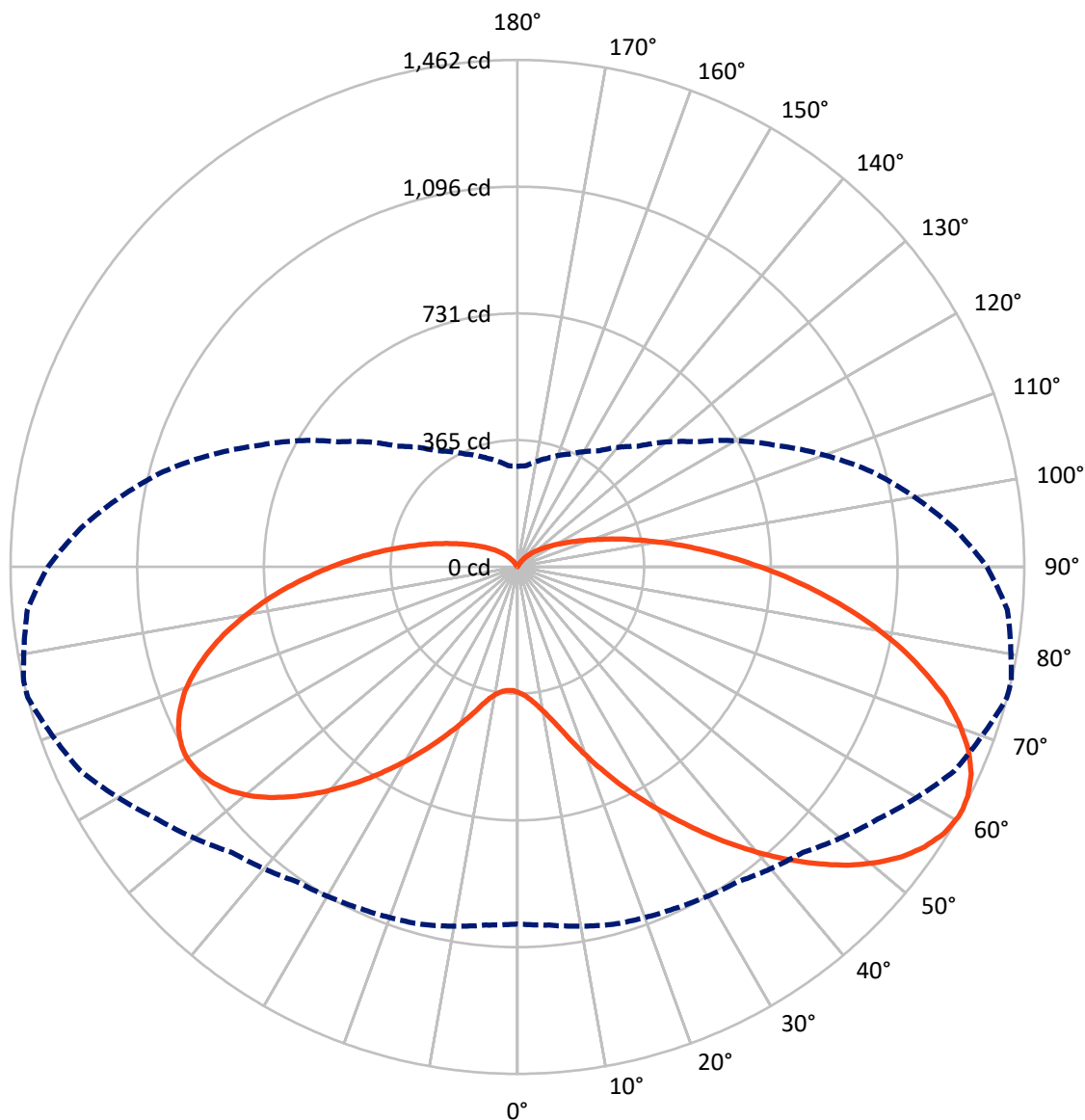


Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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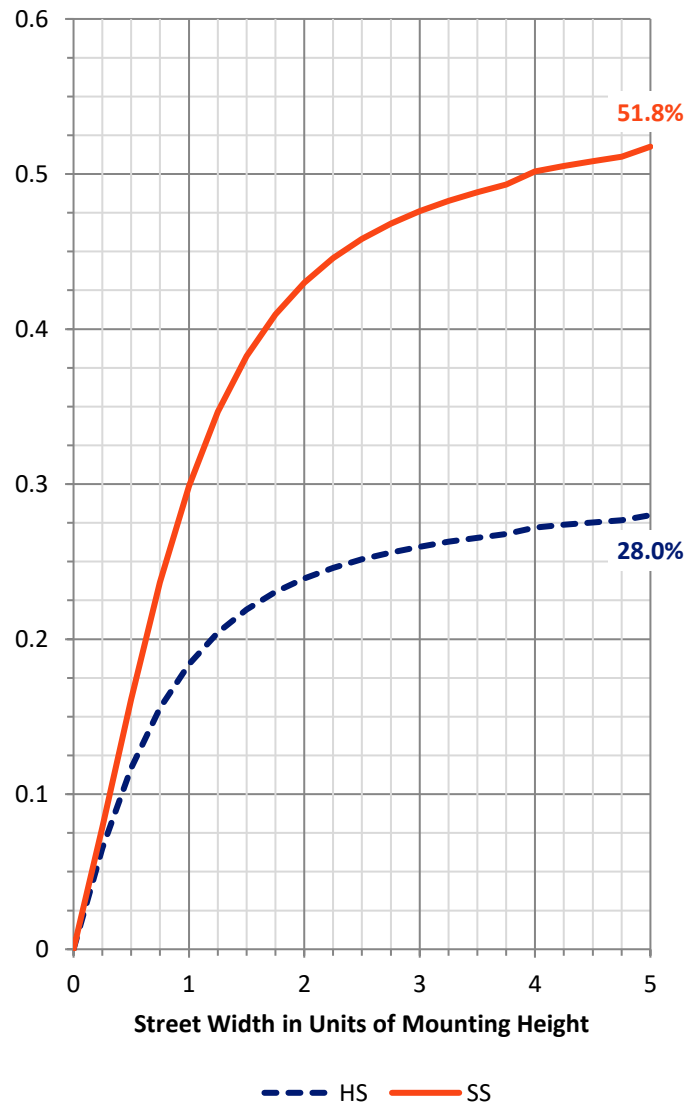
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1622.3	348.4	1970.7
	% Fixture	29.7	6.4	36.1
Street Side	Lumens	2992.6	491.7	3484.4
	% Fixture	54.9	9.0	63.9
Total	Lumens	4614.9	840.2	5455.1
	% Fixture	84.6	15.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.0	0.7
10°-20°	127.0	2.3
20°-30°	272.2	5.0
30°-40°	469.2	8.6
40°-50°	681.3	12.5
50°-60°	838.4	15.4
60°-70°	868.7	15.9
70°-80°	757.4	13.9
80°-90°	564.6	10.3
90°-100°	373.2	6.8
100°-110°	227.8	4.2
110°-120°	130.5	2.4
120°-130°	69.0	1.3
130°-140°	30.5	0.6
140°-150°	8.5	0.2
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4614.9	84.6
0°-180°	5455.1	100.0

Coefficient of Utilization



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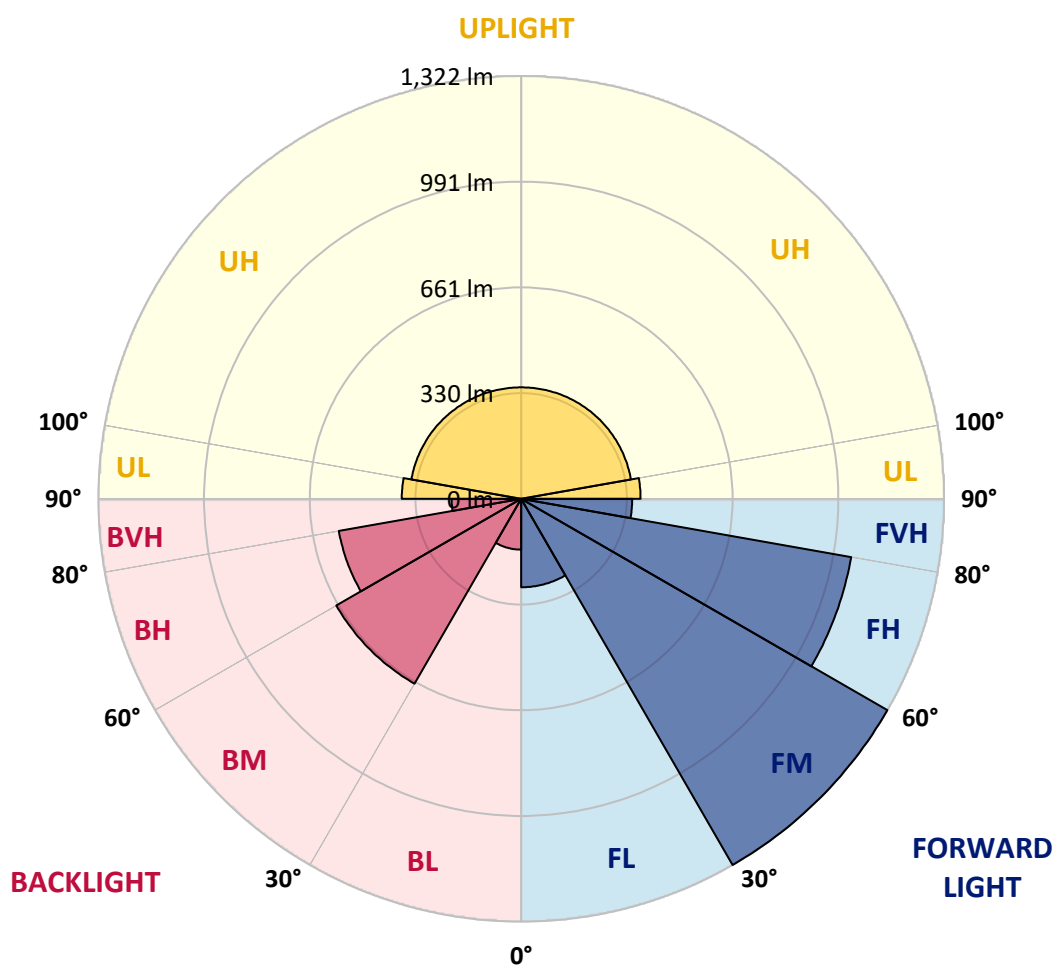
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	276.4	5.1			
FM	(30°-60°)	1321.6	24.2			
FH	(60°-80°)	1047.5	19.2			G1/1800
FVH	(80°-90°)	347.0	6.4			G3/500
BL	(0°-30°)	158.9	2.9	B1/500		
BM	(30°-60°)	667.3	12.2	B1/1000		
BH	(60°-80°)	578.6	10.6	B2/1000		G2/1000
BVH	(80°-90°)	217.5	4.0			G2/225
UL	(90°-100°)	373.2	6.8		U3/500	
UH	(100°-180°)	348.4	6.4		U3/500	

BUG Rating: B2-U3-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	362.0	362.0	362.0	362.0	362.0	362.0	362.0	362.0	362.0	362.0	362.0
2.5°	393.3	393.3	391.8	391.1	388.2	384.7	381.2	376.2	371.3	369.8	367.0
5°	427.2	427.2	425.8	422.4	417.4	411.0	403.2	395.3	385.5	383.3	375.5
7.5°	465.5	464.2	460.7	457.0	450.0	440.7	430.1	418.0	404.5	401.7	390.5
10°	503.8	503.8	500.3	494.5	486.1	474.0	461.3	446.4	428.8	425.2	410.3
12.5°	547.7	546.3	540.6	536.4	526.4	513.0	498.7	480.5	459.2	455.6	436.4
15°	594.5	593.8	588.7	579.5	568.3	555.5	540.6	520.7	498.1	492.5	471.3
17.5°	646.9	642.6	639.9	629.9	617.9	601.5	590.2	569.6	544.9	538.5	512.4
20°	695.1	695.7	689.4	680.9	669.5	658.3	642.0	623.6	596.7	588.1	558.3
22.5°	749.6	749.6	743.3	734.8	723.5	717.7	699.3	680.2	647.6	641.2	608.0
25°	806.4	804.3	797.9	790.1	784.4	777.4	760.2	737.6	704.4	698.0	660.3
27.5°	858.8	859.5	851.8	845.3	844.5	835.5	821.2	797.2	765.3	756.1	715.6
30°	912.6	913.3	907.6	899.8	900.6	894.9	882.9	858.2	827.6	817.0	773.7
32.5°	966.4	965.0	957.2	956.5	954.4	950.1	941.0	925.3	892.0	880.8	836.1
35°	1014.6	1014.6	1006.9	1009.7	1005.5	1004.8	1001.9	989.8	960.1	948.8	900.6
37.5°	1059.3	1058.7	1054.3	1055.1	1052.3	1051.5	1056.4	1055.1	1027.4	1018.1	968.6
40°	1100.5	1096.1	1092.6	1095.5	1092.6	1096.8	1108.9	1117.4	1094.0	1086.9	1036.6
42.5°	1128.7	1127.4	1125.8	1130.8	1126.7	1136.5	1155.7	1176.2	1162.0	1155.0	1104.6
45°	1151.4	1148.6	1151.4	1156.4	1153.6	1166.3	1200.2	1231.4	1231.4	1221.5	1169.9
47.5°	1160.6	1159.9	1167.0	1171.2	1169.9	1190.3	1235.7	1283.1	1293.1	1285.4	1233.0
50°	1158.5	1158.5	1169.9	1176.2	1177.6	1204.5	1261.9	1324.3	1347.0	1340.6	1288.9
52.5°	1145.0	1145.0	1162.0	1169.9	1175.5	1209.5	1279.6	1359.0	1392.4	1388.8	1337.0
55°	1119.5	1118.7	1140.8	1150.6	1162.8	1204.5	1286.7	1381.8	1427.8	1424.9	1378.2
57.5°	1079.9	1081.3	1108.1	1123.8	1139.4	1188.9	1283.1	1393.0	1451.8	1450.5	1404.4
60°	1029.5	1036.6	1067.0	1084.9	1108.1	1164.2	1268.3	1390.8	1461.1	1461.7	1418.6
61°	1008.3	1015.4	1046.5	1067.7	1092.6	1152.2	1259.9	1386.7	1460.4	1461.7	1420.0
62.5°	974.3	978.6	1015.4	1040.9	1067.7	1130.2	1242.8	1375.3	1455.3	1457.5	1417.9
65°	910.5	918.2	955.8	987.7	1019.7	1087.7	1206.0	1346.3	1434.9	1438.4	1401.5
67.5°	840.4	849.5	892.7	929.7	966.4	1038.7	1160.6	1304.5	1398.0	1402.3	1370.4
70°	770.9	782.2	827.6	864.4	909.9	984.3	1105.4	1250.6	1347.6	1351.9	1324.3
72.5°	700.0	712.9	759.5	802.0	848.1	923.9	1043.7	1186.8	1284.7	1290.2	1264.8
75°	629.3	645.5	689.4	738.2	784.4	862.4	980.0	1118.7	1207.4	1213.0	1193.2
77.5°	565.5	579.5	622.9	673.9	724.2	798.6	910.5	1038.0	1130.2	1133.0	1115.2
80°	501.0	515.8	562.6	610.8	663.8	735.5	838.9	956.5	1036.6	1044.4	1026.0
82.5°	443.6	458.5	502.3	554.9	605.7	674.5	766.0	873.0	943.8	952.4	939.5
85°	395.3	406.0	449.2	499.5	549.1	614.4	702.1	795.0	858.8	860.1	847.5
87.5°	347.1	358.6	399.7	448.6	498.7	558.3	633.5	713.6	765.3	770.1	757.5
90°	307.5	314.5	353.6	401.7	450.6	505.1	570.5	641.2	683.0	683.0	673.1
92.5°	272.7	276.4	315.3	361.4	408.1	454.9	512.4	566.8	603.0	602.3	590.9
95°	240.9	245.1	277.8	322.4	367.8	411.0	457.7	501.0	527.8	529.3	515.8
97.5°	212.5	215.5	245.9	289.9	330.1	370.6	409.5	444.2	462.0	462.6	452.7
100°	189.9	189.9	218.9	258.0	296.9	333.0	366.2	392.5	400.4	399.7	391.1
102.5°	170.0	168.6	193.4	231.0	267.2	298.2	325.2	342.3	348.6	346.4	340.7
105°	150.9	152.4	171.4	206.9	239.5	267.2	287.6	301.8	301.8	300.5	294.7
107.5°	136.7	136.1	150.9	183.6	214.7	238.8	255.1	262.1	260.0	258.0	254.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	122.6	122.6	133.8	164.4	191.2	213.3	224.7	228.9	222.5	221.8	221.1
112.5°	110.5	110.5	119.7	145.3	170.8	189.3	198.3	199.2	192.0	191.2	192.0
115°	101.2	101.2	106.3	128.9	152.4	168.6	176.4	173.0	165.7	165.1	167.3
117.5°	92.2	92.2	96.4	112.6	134.7	149.5	154.5	149.5	143.1	143.1	146.0
120°	84.4	84.4	85.8	98.5	118.3	131.2	134.7	128.9	124.0	124.0	126.8
122.5°	77.3	76.5	77.3	85.8	102.0	114.1	115.5	110.5	107.0	107.6	112.0
125°	70.2	70.2	69.3	74.4	87.9	97.7	99.3	93.6	93.6	93.6	97.0
127.5°	63.8	63.8	62.3	64.5	74.4	83.0	83.0	78.6	80.0	81.4	84.4
130°	58.1	58.1	56.8	56.8	61.7	68.7	68.7	65.8	69.3	70.2	73.0
132.5°	52.5	51.7	50.3	48.1	50.3	54.5	54.5	53.9	59.5	60.2	62.3
135°	46.7	46.1	44.6	41.1	40.3	41.9	41.9	43.9	49.5	50.3	53.1
137.5°	40.3	40.3	38.3	34.8	30.5	30.5	30.5	34.8	40.3	41.9	43.2
140°	34.8	34.8	32.6	28.3	22.6	20.5	21.3	26.9	32.6	33.2	34.8
142.5°	28.3	28.3	26.2	22.0	16.3	12.0	13.5	19.1	24.1	25.5	26.9
145°	22.0	22.0	19.9	15.6	9.9	6.4	7.7	13.5	17.0	17.6	19.1
147.5°	16.3	16.3	14.2	10.6	5.7	2.2	4.2	7.7	11.4	12.0	13.5
150°	10.6	10.6	9.3	5.7	2.9	0.0	1.3	4.2	6.4	7.0	7.7
152.5°	5.7	5.7	4.2	2.9	0.7	0.0	0.0	1.3	2.9	2.9	3.6
155°	2.9	2.2	1.3	0.7	0.0	0.0	0.0	0.0	0.7	0.7	1.3
157.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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°	0.7	0.7	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°	362.0	362.0	362.0	362.0	362.0	362.0	362.0	362.0	362.0	362.0	362.0
2.5°	364.3	361.4	355.6	351.4	346.4	342.3	338.8	335.8	335.2	333.0	333.7
5°	370.6	365.6	355.0	345.8	335.8	327.3	320.2	315.3	311.7	310.4	308.9
7.5°	382.6	374.1	358.6	343.6	329.5	316.7	305.5	298.2	292.7	289.9	289.9
10°	399.7	389.0	367.0	347.1	327.3	310.4	296.3	284.9	277.8	274.3	274.9
12.5°	423.0	408.9	381.9	355.0	330.8	308.9	289.9	277.8	269.2	265.0	265.0
15°	456.2	440.7	404.5	369.8	337.3	310.4	289.9	276.4	270.0	267.2	266.3
17.5°	496.8	476.1	435.0	393.3	352.1	318.9	298.2	285.5	276.4	272.7	272.0
20°	537.7	514.4	466.2	419.5	373.4	337.3	312.5	295.5	283.4	278.5	277.8
22.5°	584.5	557.7	501.0	445.6	396.2	361.4	326.7	304.6	290.5	284.1	283.4
25°	632.8	603.0	539.3	476.9	426.5	384.7	344.4	313.9	296.9	289.1	288.4
27.5°	683.8	651.9	578.9	508.0	455.6	406.8	360.7	322.4	302.5	294.0	293.3
30°	740.5	702.1	622.2	544.2	484.6	427.2	376.2	332.4	308.2	298.2	296.9
32.5°	799.2	756.7	666.1	582.5	511.6	445.6	389.0	343.0	313.9	302.5	301.8
35°	860.8	813.4	711.4	620.0	535.7	462.0	400.4	352.1	318.1	306.1	304.6
37.5°	925.3	873.0	758.9	655.5	559.0	476.1	409.5	360.0	322.4	308.2	306.9
40°	989.8	929.7	805.6	691.5	580.3	488.1	417.4	365.6	325.2	310.4	308.9
42.5°	1052.3	990.7	853.1	724.8	598.7	497.4	423.0	370.6	328.2	311.7	309.6
45°	1113.2	1048.7	898.5	753.1	614.4	504.5	426.5	373.4	331.7	311.7	309.6
47.5°	1174.1	1103.2	943.1	778.0	625.7	509.5	428.0	374.9	333.7	311.1	308.9
50°	1229.3	1152.2	981.4	800.0	634.2	510.9	427.2	374.1	334.4	309.6	306.9
52.5°	1274.8	1195.4	1013.3	815.5	639.1	510.1	425.2	372.6	333.7	306.9	304.6
55°	1313.7	1228.6	1036.6	825.5	639.1	506.6	421.6	369.8	330.8	303.3	300.5
57.5°	1339.2	1253.5	1052.3	829.8	636.3	500.3	415.2	364.9	328.2	298.2	295.5
60°	1354.0	1265.5	1058.7	826.9	628.5	491.7	408.1	359.2	323.7	292.7	289.9
61°	1355.5	1266.9	1058.7	824.0	625.0	488.1	405.2	357.2	321.8	290.5	287.0
62.5°	1354.0	1265.5	1055.1	817.6	617.9	481.9	399.7	352.1	317.5	285.5	283.4
65°	1339.9	1252.0	1040.9	801.4	602.3	469.0	389.8	344.4	310.4	278.5	274.9
67.5°	1309.4	1225.1	1015.4	778.7	583.9	454.3	378.4	335.2	302.5	270.0	265.7
70°	1265.5	1185.5	983.5	752.5	563.2	438.0	365.6	324.5	292.7	261.4	255.7
72.5°	1210.9	1137.3	938.9	719.3	539.3	420.9	352.1	313.1	282.0	251.5	244.5
75°	1143.0	1075.6	889.2	682.4	512.4	401.1	338.0	300.5	270.0	240.9	233.1
77.5°	1067.7	1007.5	835.5	642.0	485.4	381.9	322.4	286.3	257.3	228.9	221.1
80°	985.6	933.2	774.5	599.4	457.0	362.0	306.9	272.7	244.5	216.9	207.6
82.5°	901.3	854.5	713.6	556.2	426.5	341.5	289.9	258.0	230.2	204.1	194.2
85°	815.5	775.1	651.9	511.6	396.2	321.0	274.3	243.0	215.5	190.6	182.0
87.5°	730.5	695.7	588.7	469.0	368.5	301.1	258.0	228.2	201.2	177.1	168.6
90°	651.2	621.4	530.7	429.4	340.7	280.6	241.6	213.3	187.0	163.0	157.4
92.5°	576.1	550.5	474.8	387.6	313.1	260.8	225.4	197.6	171.4	149.5	146.0
95°	508.0	483.9	423.7	350.8	287.6	243.0	209.8	183.6	157.4	136.7	133.8
97.5°	441.4	426.5	376.2	315.3	262.8	223.9	194.2	169.3	143.9	124.8	123.2
100°	386.2	370.6	330.1	282.6	240.1	206.9	179.2	155.1	131.2	113.4	112.6
102.5°	335.8	325.2	291.2	255.1	218.3	188.5	164.4	141.8	118.3	102.8	102.8
105°	293.3	283.4	258.0	226.7	197.0	173.0	149.5	127.5	105.6	92.2	92.9
107.5°	253.0	246.6	225.4	200.5	177.1	156.6	135.4	114.1	92.9	82.1	83.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	220.4	213.9	197.6	179.2	159.4	141.8	121.9	101.2	80.8	74.4	74.4
112.5°	191.2	187.0	173.6	158.7	143.1	127.5	109.9	89.3	70.8	65.8	66.7
115°	167.3	163.8	152.4	141.0	128.3	114.9	97.7	78.0	61.7	59.5	59.5
117.5°	145.3	143.1	133.8	124.0	114.1	102.0	86.4	67.4	53.1	53.1	53.1
120°	126.8	124.8	117.6	109.1	100.6	90.0	74.4	57.4	46.7	46.7	47.5
122.5°	111.2	109.9	102.8	96.4	88.6	78.0	63.8	48.1	41.1	41.9	41.9
125°	97.0	95.7	90.6	83.6	76.5	66.7	53.9	39.6	35.5	36.8	36.8
127.5°	84.4	83.6	78.6	72.3	65.1	56.8	43.9	33.2	31.3	32.6	32.6
130°	73.8	73.0	68.0	61.7	55.2	46.1	35.5	27.7	26.9	28.3	28.3
132.5°	63.2	62.3	58.1	51.7	45.4	36.8	27.7	22.0	23.4	24.9	24.9
135°	53.1	52.5	49.5	42.5	36.8	29.0	21.3	18.4	19.9	21.3	21.3
137.5°	43.9	43.2	40.3	34.0	27.7	21.3	15.6	14.9	16.3	17.6	17.6
140°	35.5	34.8	31.9	26.2	19.9	14.9	10.6	12.0	13.5	14.9	14.9
142.5°	26.9	26.9	24.9	19.9	13.5	9.3	7.0	9.3	10.6	12.0	12.0
145°	19.9	19.9	17.0	13.5	7.7	5.0	4.2	6.4	8.5	9.3	9.3
147.5°	13.5	13.5	11.4	8.5	4.2	2.2	2.9	4.2	5.7	6.4	7.0
150°	7.7	7.7	6.4	4.2	2.2	0.7	0.7	2.9	3.6	4.2	4.2
152.5°	3.6	3.6	2.9	1.3	0.7	0.7	0.7	0.7	2.2	2.2	2.2
155°	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.0	0.7	0.7	0.7
157.5°	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.7	0.7	0.7	0.7	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)