

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: P240258

Luminaire Tested: **UTLD-AF24-70-D-U-SL3-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240258
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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 5790.7 lumens
Efficiency: N/A
Efficacy: 78.3 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 - U4 - 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

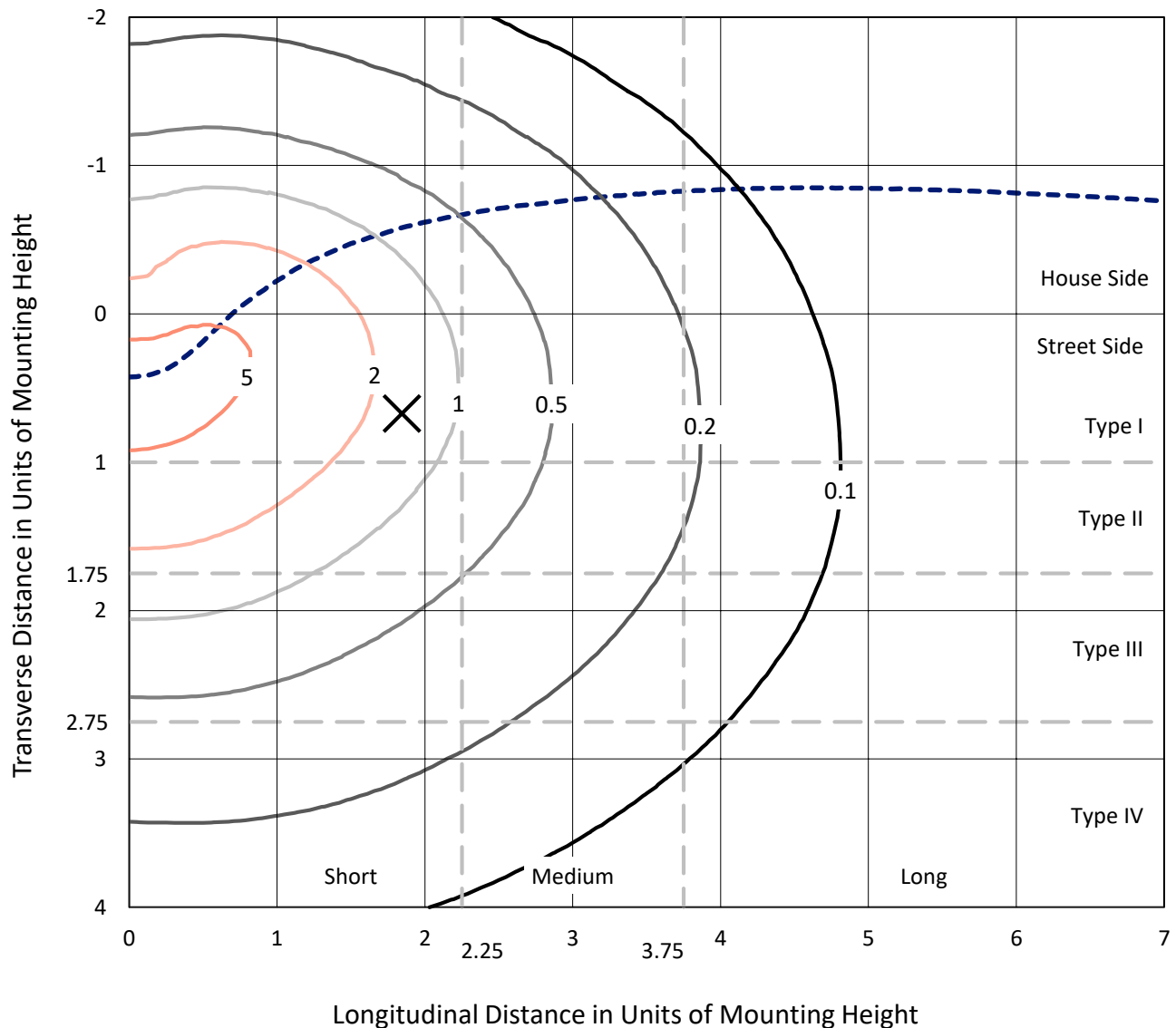


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

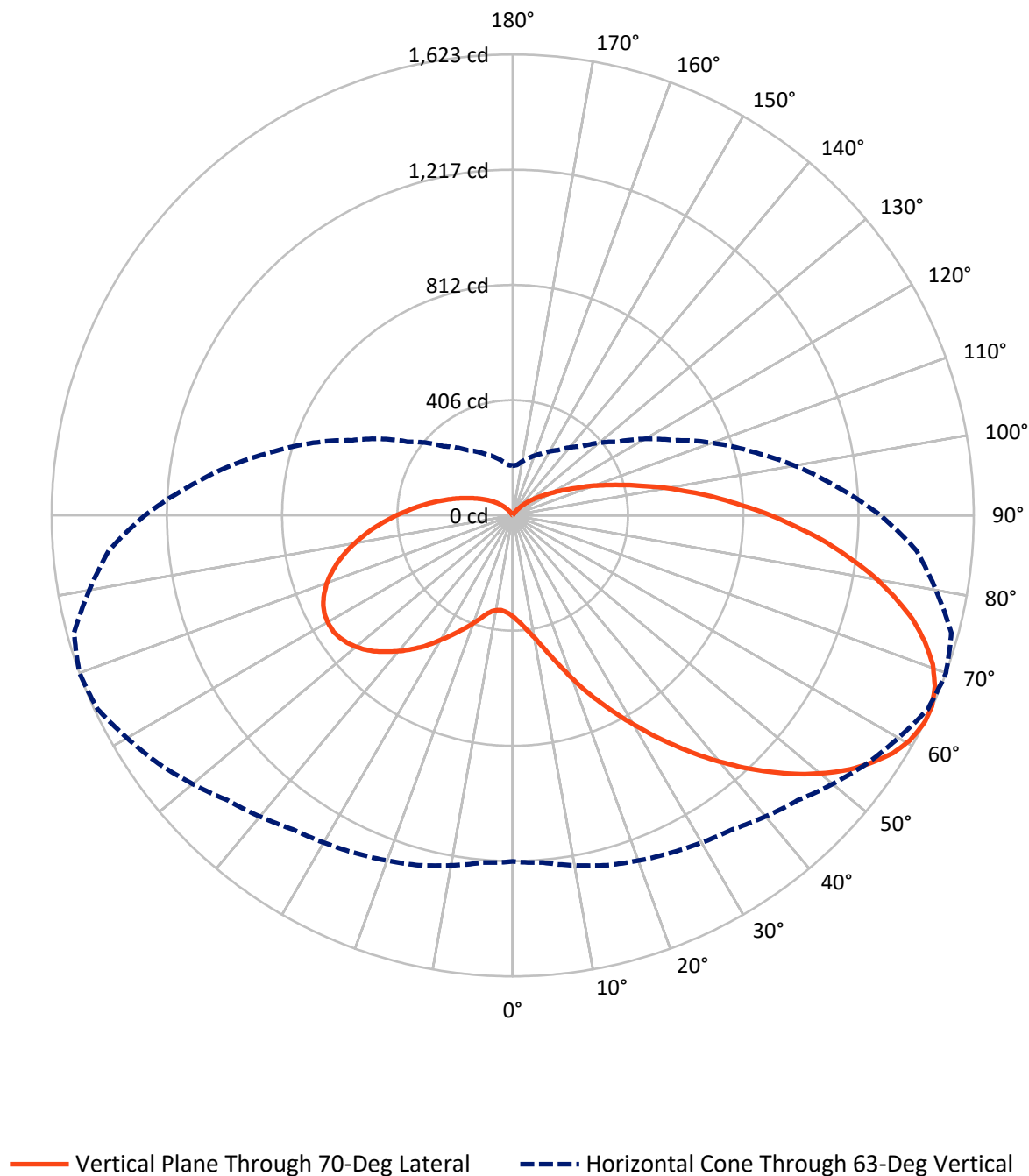


Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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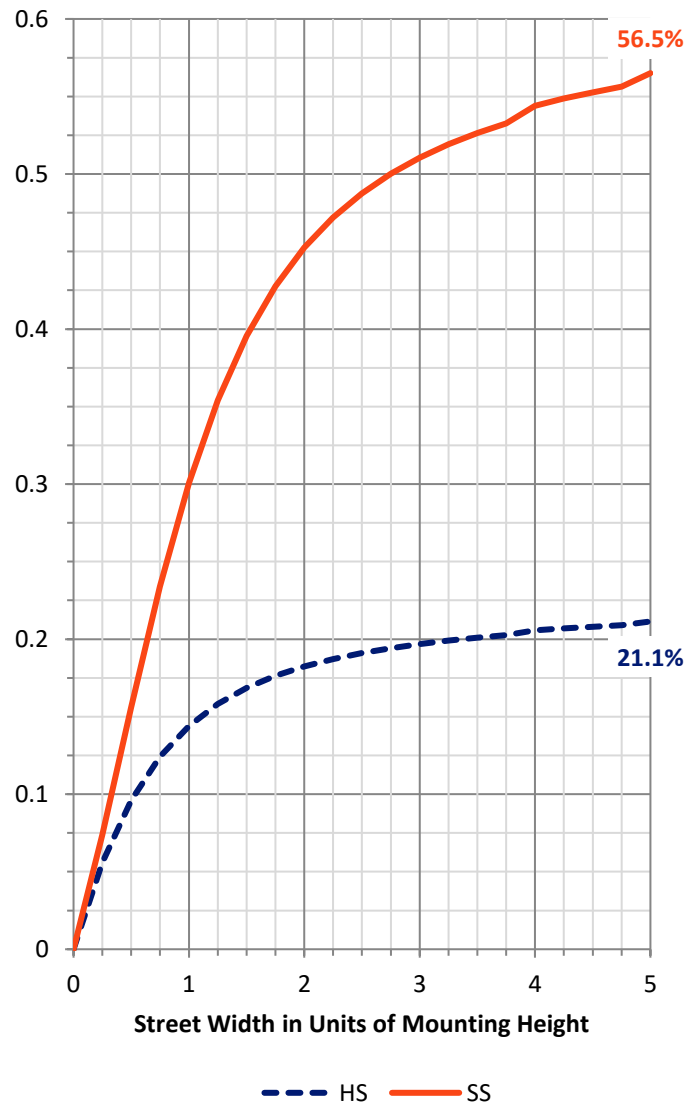
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1300.6	314.7	1615.3
	% Fixture	22.5	5.4	27.9
Street Side	Lumens	3515.6	659.8	4175.4
	% Fixture	60.7	11.4	72.1
Total	Lumens	4816.2	974.5	5790.7
	% Fixture	83.2	16.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.4	0.6
10°-20°	123.7	2.1
20°-30°	262.8	4.5
30°-40°	453.2	7.8
40°-50°	668.6	11.5
50°-60°	850.9	14.7
60°-70°	923.6	15.9
70°-80°	844.6	14.6
80°-90°	653.4	11.3
90°-100°	440.3	7.6
100°-110°	267.9	4.6
110°-120°	150.1	2.6
120°-130°	76.4	1.3
130°-140°	31.6	0.5
140°-150°	7.8	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4816.2	83.2
0°-180°	5790.7	100.0

Coefficient of Utilization



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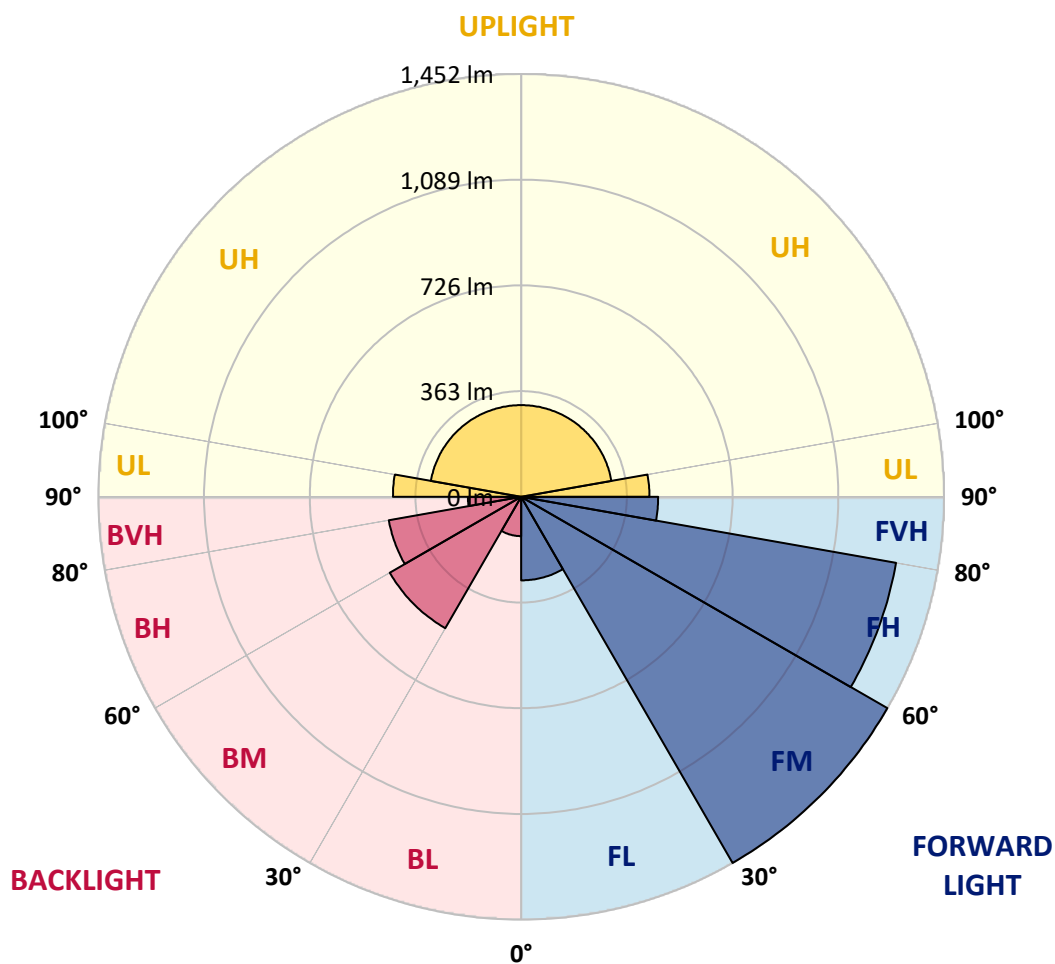
CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-FP-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	286.9	5.0			
FM	(30°-60°)	1451.6	25.1			
FH	(60°-80°)	1306.7	22.6			G1/1800
FVH	(80°-90°)	470.4	8.1			G3/500
BL	(0°-30°)	135.1	2.3	B1/500		
BM	(30°-60°)	521.0	9.0	B1/1000		
BH	(60°-80°)	461.5	8.0	B1/500		G1/500
BVH	(80°-90°)	183.0	3.2			G2/225
UL	(90°-100°)	440.3	7.6		U3/500	
UH	(100°-180°)	314.7	5.4		U3/500	

BUG Rating: B1-U4-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3
2.5°	398.2	397.4	396.7	392.8	391.1	385.6	380.9	375.5	372.2	369.1	362.7
5°	440.1	438.4	436.2	432.2	425.1	417.3	407.7	396.7	391.1	384.9	372.2
7.5°	481.1	480.3	479.5	471.7	464.6	451.9	438.4	422.8	414.8	404.6	385.6
10°	526.1	527.6	523.0	515.8	504.0	490.6	473.2	451.9	441.6	430.6	405.4
12.5°	577.3	576.6	572.6	560.7	548.2	533.1	511.9	488.9	477.1	462.1	429.8
15°	629.4	626.2	621.4	613.6	597.8	580.5	557.6	531.5	518.1	501.6	465.3
17.5°	683.8	681.4	678.3	664.9	651.4	630.2	611.2	582.8	566.3	548.2	506.3
20°	738.1	736.6	732.7	722.4	705.9	686.9	668.7	638.8	619.9	597.8	550.4
22.5°	795.7	795.0	791.0	779.2	765.8	754.0	731.1	697.2	679.0	652.3	597.0
25°	855.0	855.7	848.6	837.6	828.0	817.0	793.4	757.9	735.9	708.2	645.9
27.5°	918.8	915.7	910.9	900.7	892.7	880.2	855.7	819.5	798.1	768.2	698.8
30°	978.0	978.8	968.5	962.1	956.7	944.9	921.9	884.9	861.3	833.6	754.0
32.5°	1041.9	1038.7	1031.6	1025.3	1021.3	1008.7	987.3	955.0	931.4	896.7	809.9
35°	1097.8	1097.1	1089.2	1090.7	1080.5	1070.2	1054.5	1024.6	1000.0	967.0	872.3
37.5°	1155.4	1153.9	1148.4	1149.9	1138.1	1130.2	1119.9	1093.9	1073.4	1039.5	936.9
40°	1209.8	1205.9	1202.0	1204.4	1195.7	1190.2	1184.6	1166.5	1145.1	1109.6	1000.9
42.5°	1254.0	1253.2	1250.8	1254.8	1246.1	1244.6	1247.7	1238.2	1219.4	1183.1	1065.5
45°	1291.9	1291.9	1295.0	1297.4	1289.5	1291.9	1307.7	1305.2	1290.3	1254.0	1132.6
47.5°	1321.8	1321.1	1328.9	1332.1	1328.1	1336.8	1362.8	1373.8	1361.3	1327.4	1194.9
50°	1339.2	1339.2	1353.4	1357.3	1358.1	1374.7	1411.0	1435.4	1426.7	1394.3	1254.0
52.5°	1343.9	1345.5	1365.2	1373.8	1377.0	1403.1	1452.7	1489.9	1486.7	1455.9	1307.7
55°	1336.0	1338.4	1364.4	1377.9	1387.3	1423.5	1485.8	1538.0	1535.5	1507.1	1351.7
57.5°	1314.0	1317.1	1350.2	1369.9	1387.3	1434.6	1510.3	1575.7	1578.9	1552.1	1389.7
60°	1279.2	1283.1	1323.3	1349.5	1376.2	1433.8	1523.0	1600.2	1607.3	1579.7	1414.9
62.5°	1231.2	1235.8	1282.3	1318.6	1355.0	1422.8	1523.7	1612.0	1621.5	1597.1	1426.7
63°	1218.5	1227.2	1275.3	1311.5	1349.5	1418.8	1523.0	1612.8	1623.0	1598.7	1427.5
65°	1169.6	1179.1	1234.3	1276.9	1322.6	1400.7	1511.9	1609.0	1621.5	1597.8	1423.5
67.5°	1101.0	1113.6	1172.1	1224.0	1282.3	1368.4	1487.4	1589.1	1603.4	1580.6	1406.1
70°	1022.8	1040.2	1101.8	1166.5	1231.2	1325.0	1449.6	1555.3	1568.6	1545.0	1371.5
72.5°	944.0	963.0	1030.0	1099.3	1172.1	1271.3	1396.8	1504.1	1516.6	1496.1	1323.3
75°	864.4	878.6	948.1	1028.4	1107.4	1209.1	1338.4	1438.5	1452.7	1428.3	1263.5
77.5°	780.0	799.7	871.5	952.7	1037.1	1145.1	1268.9	1363.7	1372.3	1347.8	1186.1
80°	697.2	719.3	789.5	877.1	966.2	1070.2	1188.5	1280.8	1285.6	1259.5	1103.4
82.5°	624.6	645.1	717.0	801.3	891.2	997.6	1105.7	1184.6	1187.7	1163.3	1017.4
85°	554.5	572.6	641.3	728.0	818.7	917.2	1020.6	1087.5	1091.5	1062.3	926.7
87.5°	491.3	505.6	571.8	658.5	746.9	843.9	929.9	985.8	986.6	958.2	836.8
90°	436.9	445.6	510.2	595.5	679.0	765.8	846.2	895.2	888.9	858.9	743.7
92.5°	384.0	391.1	450.3	533.1	616.0	694.1	764.3	795.7	788.7	762.6	660.9
95°	341.6	344.6	399.2	477.1	551.3	625.4	685.4	708.2	701.1	673.6	578.8
97.5°	298.2	302.8	352.6	423.5	495.3	562.3	611.2	626.2	612.8	585.9	507.1
100°	265.8	267.3	309.2	377.0	444.8	503.1	541.8	551.3	537.1	512.7	441.6
102.5°	235.8	235.0	272.9	336.0	396.7	445.6	478.8	477.9	462.9	441.6	383.3
105°	209.8	209.0	238.1	296.5	350.9	394.3	418.8	415.6	400.7	380.1	333.6
107.5°	185.3	187.0	208.2	259.5	308.3	347.0	365.2	358.1	344.6	325.7	289.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	167.1	167.1	183.8	228.0	272.9	304.4	318.6	308.3	295.8	276.9	249.9
112.5°	150.7	150.7	162.5	198.8	239.8	268.1	277.6	264.2	249.2	236.6	216.9
115°	135.7	135.7	143.5	172.7	209.0	232.6	238.1	224.0	211.4	201.9	189.2
117.5°	123.0	123.0	127.8	148.3	180.6	202.6	205.9	190.1	181.4	172.0	164.9
120°	111.2	112.0	113.5	127.0	153.8	172.7	174.3	159.3	152.2	147.5	143.5
122.5°	100.9	100.9	101.7	109.6	130.9	146.7	146.7	134.1	129.4	127.8	124.7
125°	91.4	91.4	91.4	94.6	108.8	121.5	119.8	112.0	109.6	109.6	108.0
127.5°	82.8	82.1	81.2	82.1	89.1	97.8	97.8	92.4	92.4	93.1	93.9
130°	74.2	73.3	71.8	70.2	71.0	77.2	76.5	75.0	76.5	78.8	80.5
132.5°	65.4	65.4	63.1	59.1	56.9	58.4	59.1	60.0	62.3	65.4	67.8
135°	56.9	56.9	54.4	48.9	44.1	43.3	42.6	46.6	50.5	53.6	56.0
137.5°	48.1	48.1	45.8	39.5	33.1	29.9	29.2	35.5	39.5	42.6	44.9
140°	40.2	39.5	37.0	30.8	23.7	18.9	18.9	25.2	29.2	32.3	35.5
142.5°	31.5	31.5	29.2	23.7	15.8	11.0	11.8	17.4	20.5	22.8	25.2
145°	23.7	23.7	21.3	15.8	9.5	5.6	6.3	11.0	13.4	15.8	18.1
147.5°	16.6	16.6	14.2	10.3	4.7	1.5	3.2	6.3	7.8	9.5	11.0
150°	10.3	10.3	8.6	5.6	2.4	0.0	0.8	3.2	4.0	4.7	6.3
152.5°	5.6	5.6	4.0	2.4	0.8	0.0	0.0	0.8	1.5	2.4	3.2
155°	2.4	2.4	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.8
157.5°	0.8	0.8	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°	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3
2.5°	359.7	356.5	349.4	343.1	337.5	332.0	327.3	323.4	322.6	320.2	321.0
5°	365.2	358.8	345.5	333.6	321.0	310.8	302.8	295.8	290.2	287.9	287.2
7.5°	376.2	365.9	345.5	326.4	309.2	293.4	280.0	269.8	263.5	259.5	260.2
10°	392.0	378.6	350.9	324.9	300.5	279.1	261.9	249.2	239.8	235.8	235.8
12.5°	412.5	396.7	361.2	327.3	296.5	269.8	247.7	231.8	223.2	217.7	217.7
15°	445.6	422.8	378.6	335.2	296.5	264.2	239.8	222.5	214.4	210.6	209.8
17.5°	481.1	455.8	403.0	350.9	303.6	263.5	239.0	224.0	214.4	209.8	209.8
20°	519.7	489.8	429.1	369.1	315.4	272.9	245.3	227.2	215.3	209.0	208.2
22.5°	561.6	528.4	456.6	388.0	329.6	288.7	253.2	229.6	215.3	209.0	208.2
25°	608.0	567.8	485.0	409.2	348.6	302.8	262.7	232.6	215.3	207.4	206.6
27.5°	655.3	610.4	516.6	429.8	368.3	316.3	271.3	235.0	215.3	206.6	205.9
30°	706.7	653.1	547.4	453.5	386.4	328.1	278.4	237.4	215.3	205.9	205.1
32.5°	757.1	699.6	580.5	480.3	403.8	337.5	284.7	242.1	216.2	205.1	203.4
35°	813.1	749.2	616.0	507.1	419.5	346.3	290.2	245.3	215.3	203.4	202.6
37.5°	871.5	798.1	648.4	530.8	432.2	352.6	293.4	247.7	215.3	202.6	201.1
40°	929.9	847.9	683.0	554.5	444.0	358.1	296.5	249.9	214.4	201.1	199.5
42.5°	986.6	896.7	717.0	574.1	453.5	361.9	298.2	251.7	214.4	199.5	198.0
45°	1044.9	946.4	752.4	593.1	460.6	363.7	298.2	251.7	215.3	198.0	196.3
47.5°	1101.0	992.9	784.7	608.0	466.1	364.4	298.2	251.7	215.3	196.3	194.1
50°	1150.7	1035.6	811.6	620.7	469.3	364.4	297.3	251.7	215.3	194.1	191.6
52.5°	1198.8	1072.6	836.8	629.4	470.8	362.7	295.8	249.9	215.3	191.6	189.2
55°	1237.5	1105.7	854.2	634.9	469.3	360.4	292.6	248.4	214.4	189.2	186.2
57.5°	1268.2	1129.4	867.5	636.4	466.1	356.5	289.4	246.1	212.9	186.2	183.8
60°	1287.9	1142.8	871.5	633.2	461.4	350.9	285.5	243.6	210.6	183.0	179.8
62.5°	1295.0	1147.5	869.9	627.0	454.3	345.5	281.6	240.6	208.2	179.0	175.9
63°	1295.0	1146.7	869.1	625.4	451.9	343.8	280.8	239.8	207.4	178.2	175.1
65°	1290.3	1140.4	861.3	616.0	444.8	338.3	276.9	236.6	205.9	175.9	172.0
67.5°	1270.5	1123.8	843.1	601.8	433.0	330.5	270.5	231.8	201.9	172.0	168.0
70°	1239.0	1095.5	818.7	582.8	420.3	321.8	264.2	227.2	198.0	168.0	163.3
72.5°	1192.4	1056.0	787.9	560.7	405.4	312.3	257.1	221.6	192.4	163.3	157.8
75°	1134.8	1007.9	751.6	535.5	390.4	301.2	249.9	215.3	187.0	158.5	151.5
77.5°	1067.1	951.9	709.8	509.4	373.0	290.2	241.4	208.2	181.4	153.8	145.1
80°	991.4	885.6	664.9	480.3	354.9	278.4	232.6	201.1	173.5	147.5	138.8
82.5°	915.7	819.5	617.6	450.3	336.7	266.6	223.2	193.3	166.4	141.2	132.5
85°	833.6	750.1	571.0	419.5	317.8	253.2	213.7	184.5	159.3	134.8	125.4
87.5°	754.8	679.8	519.7	389.6	299.7	241.4	204.4	175.9	150.7	127.0	119.8
90°	678.3	612.8	475.6	358.8	280.0	228.0	194.1	166.4	141.9	119.1	113.5
92.5°	604.1	544.9	427.4	330.5	261.9	215.3	183.0	156.9	133.3	112.0	107.3
95°	534.8	485.8	387.3	302.1	244.5	202.6	172.7	148.3	123.8	103.4	100.2
97.5°	469.3	429.8	347.8	277.6	225.5	190.1	161.7	138.0	114.4	95.4	93.9
100°	414.1	380.1	310.8	252.4	209.0	177.4	151.5	127.8	104.9	87.5	87.5
102.5°	361.9	332.0	276.0	228.7	192.4	164.0	139.7	117.6	95.4	80.5	80.5
105°	316.3	291.8	246.8	207.4	176.7	151.5	128.6	107.3	85.2	73.3	73.3
107.5°	274.5	255.5	219.3	187.7	160.9	138.0	117.6	96.2	75.0	66.2	67.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	240.6	225.5	194.8	168.0	145.9	127.0	107.3	86.0	65.4	60.0	60.0
112.5°	208.2	196.3	172.0	151.5	132.5	115.2	96.2	75.7	57.6	54.4	54.4
115°	182.1	172.7	152.2	134.8	119.1	103.4	85.2	65.4	49.7	48.1	48.9
117.5°	159.3	151.5	135.7	121.5	107.3	92.4	75.7	56.0	43.3	43.3	43.3
120°	138.8	133.3	119.1	107.3	95.4	81.2	65.4	47.3	37.8	37.8	38.7
122.5°	122.3	116.7	106.4	94.6	83.6	71.0	56.0	39.5	33.1	33.9	34.8
125°	105.7	102.4	93.1	82.8	72.5	60.0	46.6	32.3	29.2	29.9	30.8
127.5°	92.4	89.9	80.5	71.8	62.3	50.5	37.8	26.0	24.5	26.0	26.8
130°	78.8	77.2	70.2	61.5	52.0	41.8	29.9	21.3	21.3	22.8	22.8
132.5°	67.0	65.4	59.1	50.5	42.6	32.3	22.8	17.4	18.1	19.6	19.6
135°	56.0	54.4	48.9	41.8	33.1	24.5	17.4	14.2	15.8	16.6	16.6
137.5°	45.8	44.1	39.5	32.3	24.5	17.4	12.6	11.0	12.6	14.2	14.2
140°	34.8	34.8	30.8	24.5	17.4	11.8	8.6	8.6	10.3	11.0	11.0
142.5°	26.0	25.2	22.8	17.4	11.0	7.1	5.6	6.3	7.8	8.6	8.6
145°	18.1	17.4	15.8	11.8	6.3	4.0	3.2	4.7	5.6	6.3	6.3
147.5°	11.8	11.0	10.3	7.1	3.2	1.5	1.5	3.2	4.0	4.7	4.7
150°	6.3	6.3	5.6	3.2	1.5	0.0	0.8	1.5	2.4	2.4	2.4
152.5°	3.2	3.2	2.4	1.5	0.8	0.0	0.0	0.0	0.8	0.8	0.8
155°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.8	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	0.8	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)