

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: P240204

Luminaire Tested: **UTLD-AF24-70-D-U-T4W-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240204
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-AF24-70-D-U-T4W-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 930mA 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: 5959 lumens
Efficiency: N/A
Efficacy: 80.5 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 - 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



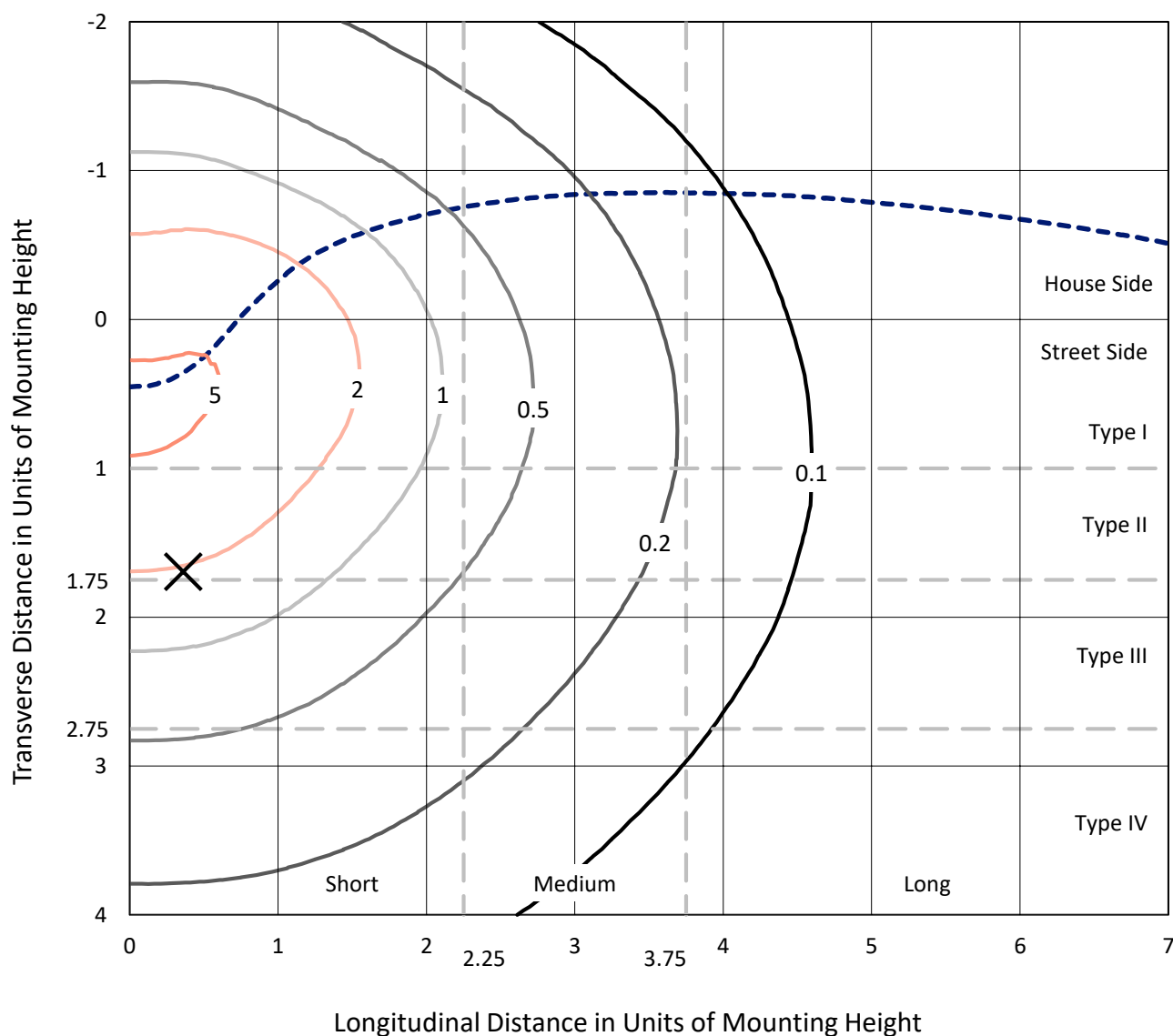
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

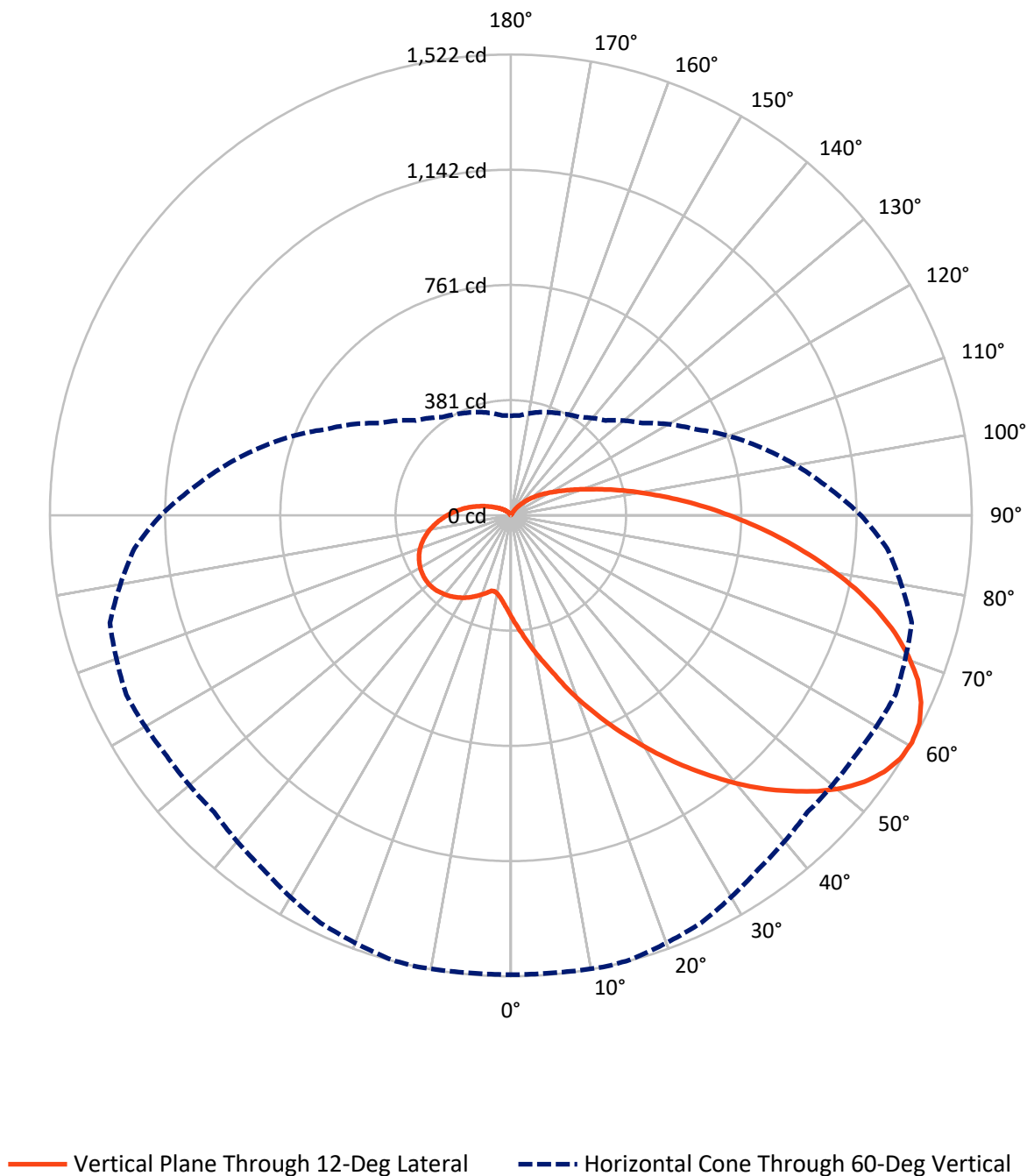


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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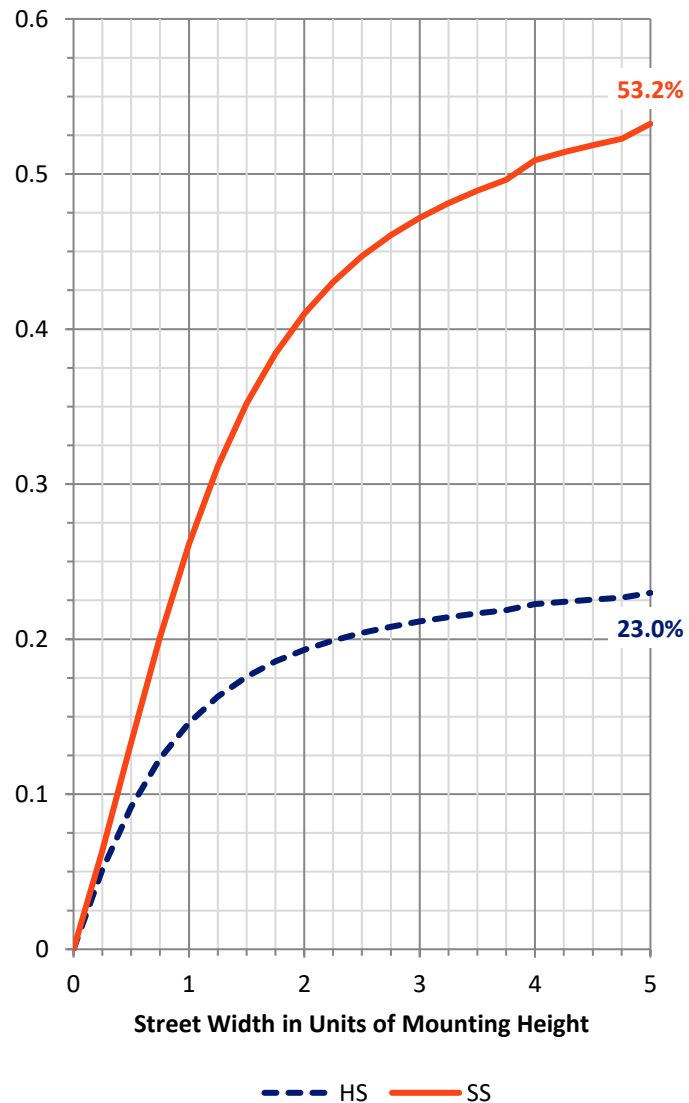
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1465.1	337.4	1802.5
	% Fixture	24.6	5.7	30.2
Street Side	Lumens	3457.4	699.2	4156.6
	% Fixture	58.0	11.7	69.8
Total	Lumens	4922.4	1036.6	5959.0
	% Fixture	82.6	17.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.3	0.6
10°-20°	116.9	2.0
20°-30°	250.6	4.2
30°-40°	438.8	7.4
40°-50°	660.8	11.1
50°-60°	862.7	14.5
60°-70°	960.8	16.1
70°-80°	896.9	15.1
80°-90°	701.7	11.8
90°-100°	474.2	8.0
100°-110°	286.6	4.8
110°-120°	157.9	2.6
120°-130°	78.5	1.3
130°-140°	31.4	0.5
140°-150°	7.5	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4922.4	82.6
0°-180°	5959.0	100.0

Coefficient of Utilization



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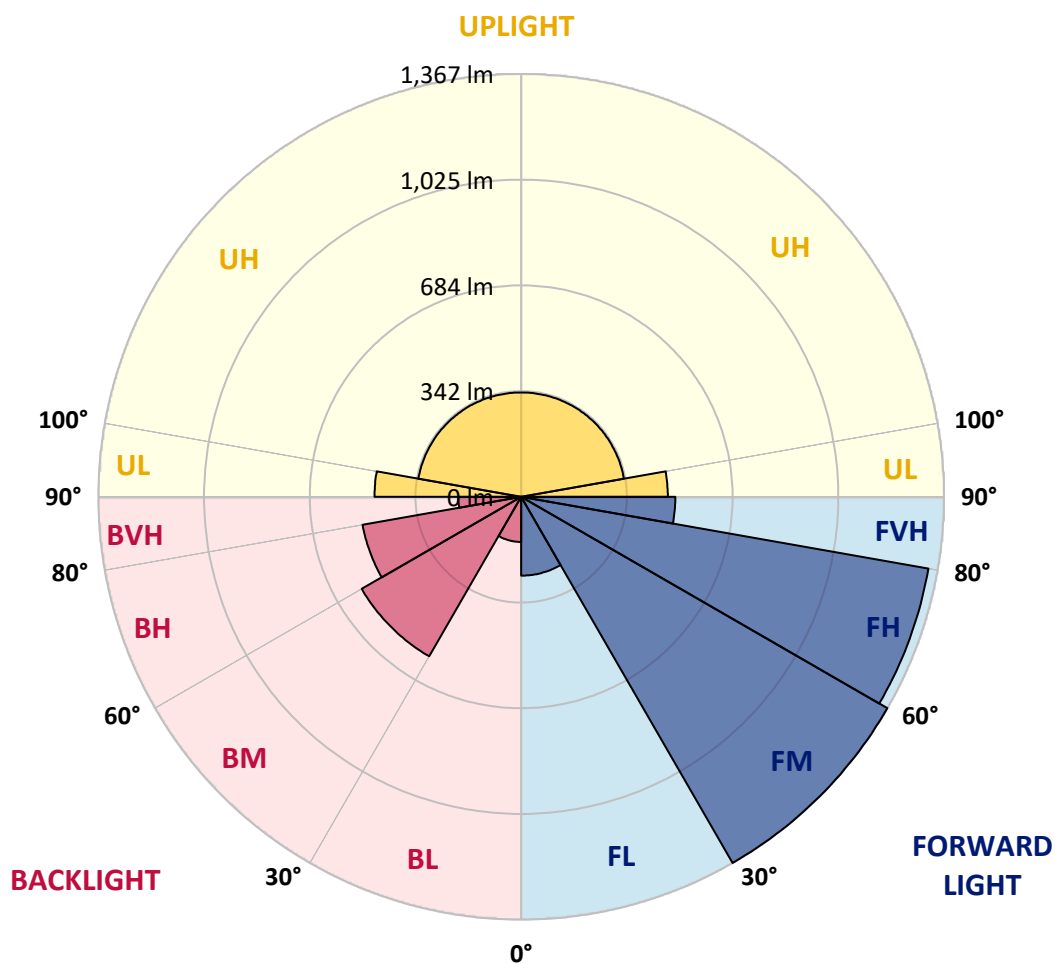
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	254.9	4.3			
FM	(30°-60°)	1367.1	22.9			
FH	(60°-80°)	1337.1	22.4			G1/1800
FVH	(80°-90°)	498.3	8.4			G3/500
BL	(0°-30°)	146.0	2.4	B1/500		
BM	(30°-60°)	595.2	10.0	B1/1000		
BH	(60°-80°)	520.5	8.7	B2/1000		G2/1000
BVH	(80°-90°)	203.4	3.4			G2/225
UL	(90°-100°)	474.2	8.0		U3/500	
UH	(100°-180°)	337.4	5.7		U3/500	

BUG Rating: B2-U4-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0
2.5°	365.2	363.5	363.5	361.9	361.9	358.8	356.5	352.5	348.5	343.8	339.9
5°	394.3	394.3	392.8	392.8	389.6	384.0	378.6	371.5	364.4	356.5	347.0
7.5°	429.1	428.2	428.2	425.9	422.0	414.0	406.1	395.8	384.8	371.5	358.8
10°	464.5	463.7	463.7	461.4	456.6	447.2	435.3	423.5	409.2	391.9	374.6
12.5°	507.1	503.9	502.4	501.6	493.7	485.0	470.1	455.8	436.9	417.2	395.8
15°	552.1	551.2	546.6	544.1	536.3	523.0	508.7	491.3	472.4	450.2	424.3
17.5°	602.6	602.6	599.4	596.2	587.5	569.4	551.2	534.8	515.8	488.9	459.8
20°	656.9	656.9	653.0	648.2	637.2	621.4	603.3	583.6	560.7	531.5	496.0
22.5°	714.4	712.9	707.5	704.2	690.8	673.5	659.3	636.4	609.5	576.5	535.5
25°	775.2	772.9	767.3	764.2	748.4	735.0	718.5	691.6	660.9	623.0	577.3
27.5°	839.1	832.8	828.8	824.2	809.2	795.7	772.9	747.7	712.2	672.7	622.2
30°	900.7	898.2	893.5	887.1	873.8	858.0	832.8	805.2	770.5	727.1	671.1
32.5°	970.8	968.5	960.5	954.3	936.9	920.3	894.3	865.2	828.0	782.3	721.5
35°	1041.0	1037.9	1029.1	1022.0	1007.9	983.5	952.6	925.1	888.0	841.6	776.0
37.5°	1113.6	1107.3	1097.7	1093.0	1075.6	1045.7	1013.4	983.5	949.5	902.2	831.3
40°	1182.1	1179.0	1168.0	1162.4	1143.5	1106.5	1071.0	1044.2	1013.4	963.6	888.9
42.5°	1252.3	1246.8	1235.8	1230.3	1208.2	1165.6	1128.5	1103.3	1077.3	1028.3	947.2
45°	1314.6	1312.3	1298.9	1295.7	1268.9	1223.1	1180.5	1158.4	1135.6	1089.1	1000.9
47.5°	1375.3	1369.9	1361.2	1357.2	1325.7	1273.6	1231.8	1212.9	1193.9	1151.4	1058.4
50°	1425.1	1424.3	1416.3	1411.6	1375.3	1318.5	1276.0	1261.1	1250.8	1209.7	1110.4
52.5°	1467.7	1466.8	1462.1	1457.4	1418.7	1359.6	1315.5	1304.4	1301.3	1263.4	1156.2
55°	1497.6	1496.9	1495.2	1490.6	1452.7	1392.0	1348.6	1339.8	1343.8	1308.4	1197.2
57.5°	1515.0	1514.3	1516.5	1512.5	1473.9	1414.1	1371.4	1369.0	1378.6	1346.2	1227.8
60°	1516.5	1516.5	1522.1	1519.7	1485.0	1425.9	1385.6	1386.4	1401.4	1370.6	1247.6
62.5°	1502.4	1502.4	1514.3	1511.8	1481.9	1425.1	1388.0	1394.2	1413.3	1384.1	1254.8
65°	1471.6	1475.5	1488.9	1488.9	1465.2	1414.1	1380.1	1389.6	1412.4	1383.2	1249.9
67.5°	1422.7	1430.5	1449.6	1451.1	1434.6	1389.6	1359.6	1373.0	1398.2	1367.5	1230.3
70°	1361.9	1373.0	1392.7	1398.2	1391.2	1354.0	1328.8	1344.7	1369.0	1338.3	1197.9
72.5°	1291.0	1301.3	1326.5	1332.8	1335.1	1305.9	1286.3	1305.2	1324.9	1291.8	1153.0
75°	1212.1	1220.8	1249.2	1255.5	1265.8	1249.2	1236.6	1251.6	1273.6	1232.7	1095.5
77.5°	1116.7	1131.7	1163.3	1170.2	1190.1	1182.1	1172.7	1190.8	1207.5	1164.0	1028.3
80°	1024.5	1043.3	1069.4	1083.7	1107.3	1106.5	1108.0	1119.9	1134.0	1086.7	955.8
82.5°	930.6	944.0	974.7	988.1	1024.5	1033.1	1033.1	1048.9	1053.6	1000.9	877.8
85°	836.0	851.6	882.5	895.9	935.4	954.3	959.8	967.6	968.5	913.2	797.3
87.5°	752.4	761.9	791.0	807.5	850.1	872.2	879.3	888.9	882.5	828.0	714.4
90°	668.7	677.4	705.9	719.3	765.8	791.8	807.5	811.5	798.9	741.4	638.8
92.5°	590.6	599.4	626.2	641.9	687.7	715.3	730.3	733.4	719.3	660.9	565.4
95°	522.0	522.0	551.2	563.1	614.4	645.0	659.3	659.3	639.6	582.1	495.3
97.5°	457.4	459.0	481.9	496.8	544.1	576.5	591.4	592.3	564.7	510.2	436.2
100°	399.1	401.4	422.8	436.2	481.9	515.8	529.2	526.8	498.4	442.4	377.0
102.5°	350.9	350.9	369.1	380.1	423.5	457.4	470.1	465.3	436.2	382.5	328.9
105°	307.6	309.1	321.0	332.0	373.0	404.6	417.2	410.0	380.1	328.1	287.1
107.5°	272.8	272.0	279.9	287.9	326.4	356.5	367.5	358.8	327.2	280.8	249.2
110°	238.1	239.0	245.3	250.7	286.3	314.6	322.6	315.4	279.9	239.0	216.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	210.6	210.6	215.3	220.0	245.3	272.8	282.3	272.0	238.1	202.6	188.5
115°	187.0	187.7	189.2	191.6	212.9	238.1	246.1	233.5	200.3	173.5	164.0
117.5°	166.4	166.4	167.1	169.6	183.0	205.9	211.3	198.0	169.6	148.3	144.3
120°	149.0	148.3	147.5	148.3	157.8	174.3	179.8	166.4	141.2	128.6	125.4
122.5°	132.5	132.5	130.9	131.6	134.1	146.7	150.7	138.0	119.1	111.2	110.5
125°	116.7	116.7	115.2	114.4	113.5	119.8	121.5	112.0	98.6	96.2	95.4
127.5°	101.7	102.4	100.2	99.3	96.2	97.0	97.8	89.1	81.2	82.1	82.8
130°	89.1	89.1	86.8	85.2	80.5	76.5	75.0	69.4	66.2	69.4	71.8
132.5°	77.2	75.7	74.1	72.5	65.4	60.0	56.9	52.0	53.6	58.4	60.7
135°	64.7	63.9	61.5	60.7	53.6	44.9	39.5	37.8	42.6	48.1	49.7
137.5°	52.9	52.9	50.5	48.9	41.0	32.3	26.8	26.8	32.3	37.8	41.0
140°	41.8	41.8	39.5	37.8	30.8	22.1	16.6	17.4	23.7	29.2	31.5
142.5°	31.5	31.5	29.2	28.4	22.1	14.2	9.5	11.0	16.6	21.3	23.7
145°	22.8	22.1	20.5	19.6	14.2	8.6	4.7	6.3	10.3	14.2	16.6
147.5°	15.0	15.0	13.4	12.6	8.6	4.7	1.5	3.2	6.3	8.6	11.0
150°	8.6	8.6	7.8	7.1	4.7	1.5	0.0	1.5	3.2	4.7	6.3
152.5°	4.7	4.7	4.0	4.0	1.5	0.8	0.0	0.0	0.8	2.4	2.4
155°	1.5	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0
2.5°	337.5	335.2	330.4	326.4	322.6	317.8	315.4	313.1	311.5	310.0	310.0
5°	342.3	337.5	328.9	320.1	312.3	305.2	299.0	294.1	291.8	290.2	289.4
7.5°	352.5	345.4	331.3	317.8	306.0	295.0	286.3	279.1	275.3	272.8	272.0
10°	365.9	355.6	337.5	319.4	303.6	289.4	277.6	268.9	263.5	261.0	259.5
12.5°	384.0	371.5	347.8	324.9	304.4	287.1	272.0	262.7	257.1	253.9	253.9
15°	411.7	395.1	365.9	335.2	310.0	288.7	272.0	261.7	257.9	256.3	255.5
17.5°	443.3	424.3	388.8	353.4	321.0	294.1	279.1	272.8	267.3	265.0	265.0
20°	477.9	455.1	414.0	373.7	337.5	310.0	293.4	283.1	276.9	274.5	273.7
22.5°	512.7	488.9	440.9	395.1	354.9	330.4	306.8	294.1	286.3	283.1	282.3
25°	552.1	526.0	469.3	418.0	379.3	351.7	324.2	306.0	295.8	291.8	290.9
27.5°	594.6	563.9	500.7	442.4	402.9	370.6	339.9	315.4	305.2	300.5	299.7
30°	638.8	604.9	532.3	467.6	425.9	387.3	354.9	327.2	313.9	308.3	307.6
32.5°	685.3	645.0	566.3	497.6	447.2	402.2	367.5	338.3	321.8	315.4	315.4
35°	737.4	690.8	599.4	525.2	466.9	417.2	378.6	348.5	328.9	322.6	322.6
37.5°	787.1	736.6	634.8	555.1	485.0	429.1	387.3	358.1	336.0	328.1	328.1
40°	839.8	782.3	668.7	579.6	500.7	438.4	395.1	365.2	341.4	334.4	332.8
42.5°	891.1	828.0	705.0	604.9	514.2	446.4	401.4	371.5	346.3	337.5	336.7
45°	944.8	873.8	739.6	625.4	525.2	451.9	404.6	375.5	351.7	340.7	339.1
47.5°	991.3	917.2	773.7	643.5	533.9	455.1	406.9	378.6	354.9	342.3	340.7
50°	1037.9	955.8	802.1	658.5	538.6	456.6	407.7	379.3	357.3	342.3	340.7
52.5°	1079.6	992.1	826.4	668.7	541.1	455.8	406.9	379.3	358.1	340.7	339.1
55°	1114.3	1021.2	843.8	675.1	541.1	453.4	404.6	377.7	357.3	339.1	336.7
57.5°	1140.3	1041.0	855.7	676.7	537.0	448.7	400.7	375.5	354.9	336.0	332.8
60°	1156.2	1052.0	859.7	672.7	530.8	443.3	395.8	372.2	352.5	331.3	328.9
62.5°	1160.9	1053.6	855.7	664.9	522.0	435.3	388.8	366.7	347.8	325.7	323.3
65°	1153.0	1044.9	844.6	652.2	510.2	425.9	381.8	360.4	342.3	319.4	317.1
67.5°	1131.7	1026.1	824.9	634.8	496.8	414.8	373.7	353.4	336.0	312.3	307.6
70°	1100.1	997.6	799.7	613.6	481.1	402.9	364.4	344.6	327.2	304.4	299.7
72.5°	1054.4	959.0	766.6	587.5	462.9	390.4	352.5	334.4	317.8	295.0	288.7
75°	999.1	909.2	727.1	560.7	444.0	375.5	340.7	323.3	306.8	283.8	278.4
77.5°	937.7	857.2	684.5	529.9	422.0	360.4	328.1	311.5	294.1	272.0	264.2
80°	870.7	796.5	638.0	498.4	401.4	343.8	313.9	298.1	280.8	259.5	250.7
82.5°	798.1	733.4	591.4	466.9	378.6	327.2	299.7	283.8	265.7	245.3	236.5
85°	727.1	668.7	542.6	433.0	356.5	310.0	283.8	268.1	251.7	230.3	222.4
87.5°	653.8	603.3	494.5	399.9	334.4	293.4	268.9	252.4	235.0	215.3	209.0
90°	589.9	541.8	449.5	368.3	311.5	275.3	253.2	235.8	219.3	200.3	194.8
92.5°	522.0	482.6	405.4	338.3	290.2	257.9	237.4	220.8	202.6	184.5	180.6
95°	463.7	431.3	365.2	308.3	267.3	241.4	221.6	204.2	186.1	168.8	166.4
97.5°	407.7	380.9	325.7	280.8	247.6	224.0	205.1	188.5	169.6	153.8	152.2
100°	358.1	334.4	290.2	255.5	226.3	207.4	190.1	172.7	153.8	138.8	138.8
102.5°	312.3	294.1	258.6	229.5	207.4	189.2	173.5	156.1	137.2	124.5	125.4
105°	275.3	257.9	228.7	206.6	188.5	172.0	156.9	139.7	121.5	111.2	112.0
107.5°	239.8	226.3	202.6	183.8	169.6	156.1	140.4	123.8	105.7	99.3	100.2
110°	209.0	198.8	179.8	164.0	153.0	140.4	126.2	108.8	92.4	88.3	88.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	182.1	173.5	159.3	146.7	135.6	125.4	110.5	94.6	78.8	77.2	77.2
115°	159.3	153.0	139.7	129.4	121.5	111.2	97.8	81.2	68.7	67.8	68.7
117.5°	139.7	134.1	123.0	114.4	107.3	97.8	85.2	69.4	58.4	59.1	60.0
120°	122.3	118.3	108.8	101.7	94.6	86.0	72.5	58.4	51.3	52.0	52.0
122.5°	108.0	104.2	96.2	89.1	82.8	74.1	62.3	48.9	44.1	45.8	45.8
125°	93.9	91.4	83.6	77.2	71.0	62.3	51.3	40.2	37.8	39.5	39.5
127.5°	81.2	79.6	73.3	66.2	60.0	52.0	41.8	33.1	32.3	33.9	33.9
130°	70.2	68.7	63.1	56.9	49.7	42.6	32.3	26.8	27.7	29.2	29.9
132.5°	60.0	59.1	53.6	46.6	40.2	33.1	25.2	22.1	23.7	25.2	25.2
135°	49.7	48.9	44.9	38.7	31.5	25.2	18.9	17.4	19.6	21.3	21.3
137.5°	41.0	39.5	36.3	29.9	23.7	18.1	13.4	14.2	15.8	17.4	17.4
140°	32.3	31.5	28.4	22.8	16.6	11.8	9.5	11.0	13.4	14.2	14.2
142.5°	23.7	23.7	20.5	15.8	10.3	7.1	6.3	7.8	10.3	11.0	11.0
145°	16.6	16.6	14.2	10.3	6.3	3.2	3.2	5.6	7.1	7.8	8.6
147.5°	11.0	10.3	8.6	6.3	3.2	0.8	1.5	4.0	4.7	5.6	5.6
150°	6.3	6.3	4.7	3.2	1.5	0.0	0.8	1.5	2.4	3.2	4.0
152.5°	2.4	2.4	1.5	0.8	0.8	0.0	0.0	0.0	0.8	1.5	1.5
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°	0.8	0.0	0.8	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)