

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: P240267

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240267
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 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: 6124.4 lumens
Efficiency: N/A
Efficacy: 82.8 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



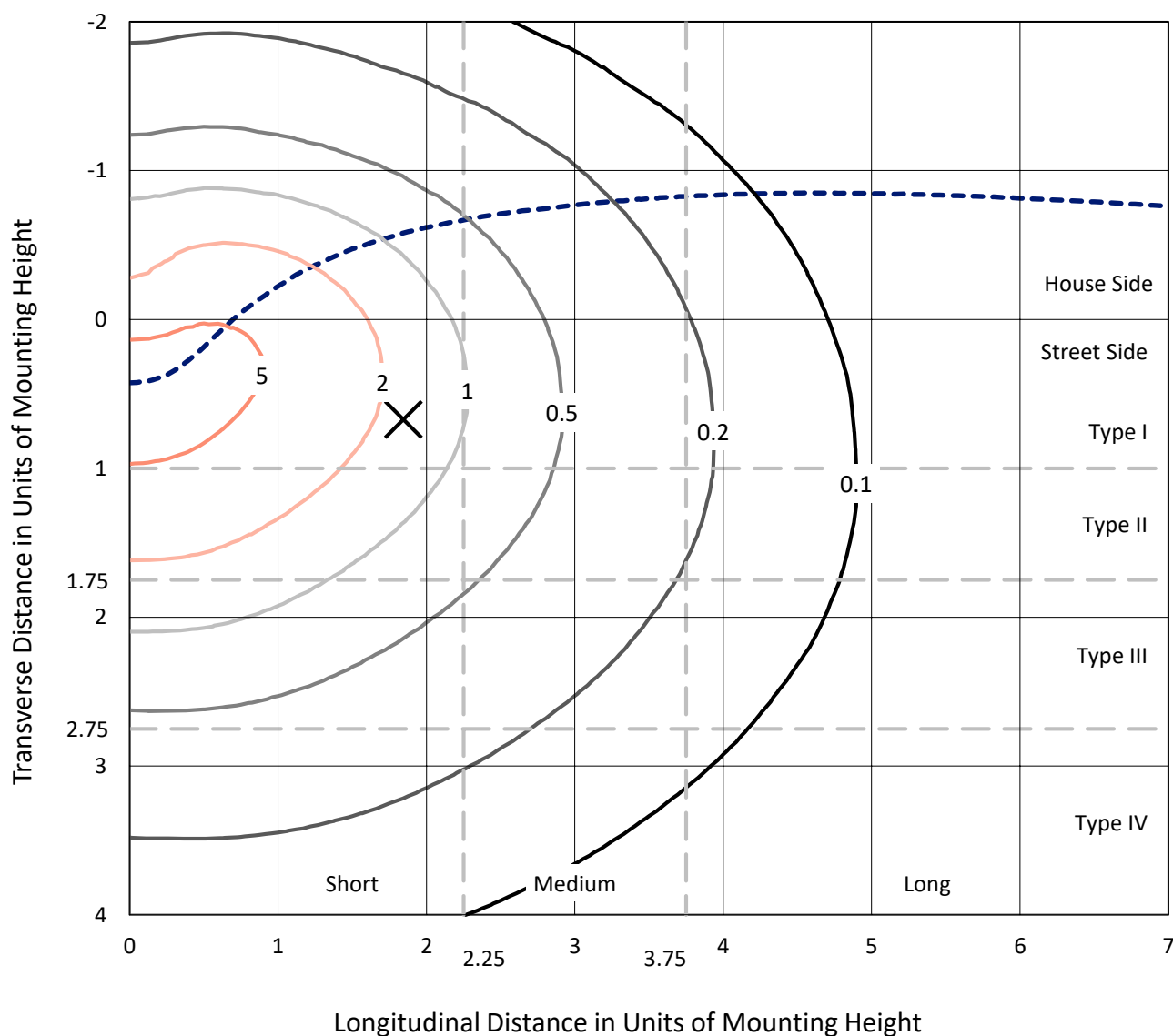
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

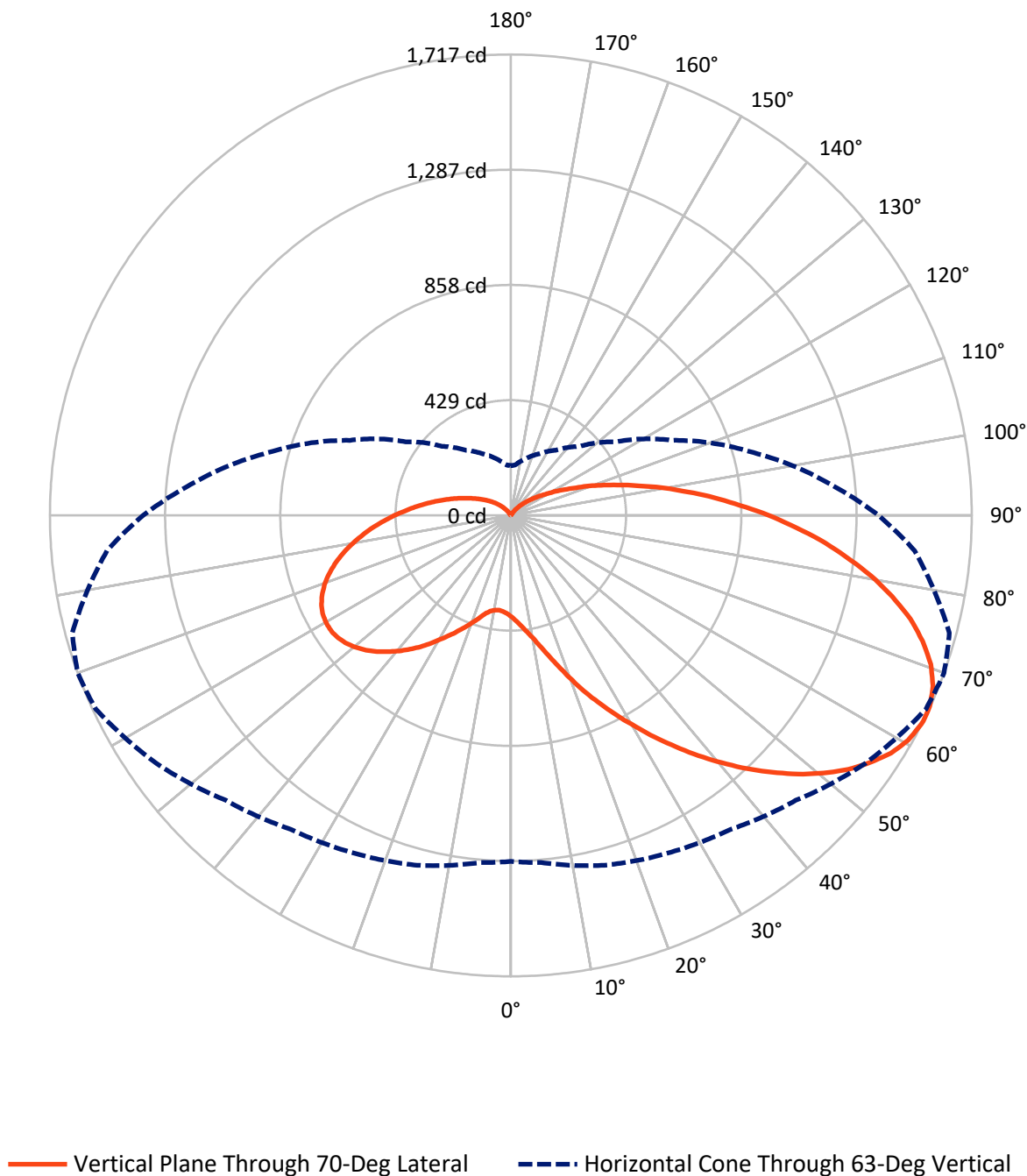


Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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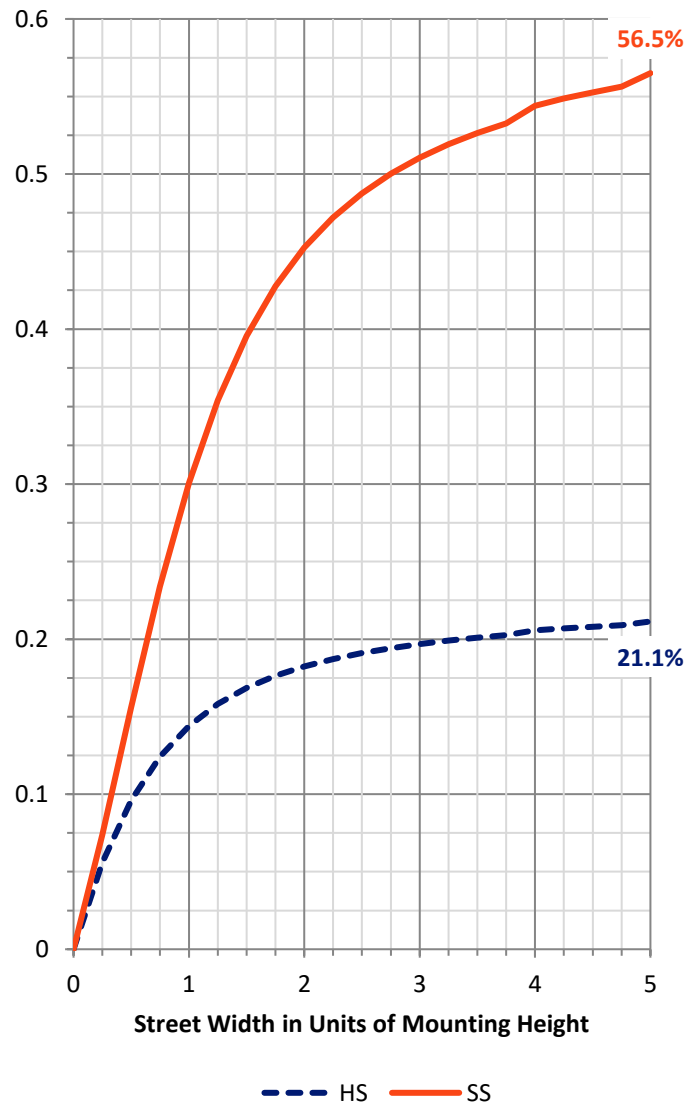
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1375.6	332.9	1708.4
	% Fixture	22.5	5.4	27.9
Street Side	Lumens	3718.2	697.8	4416.0
	% Fixture	60.7	11.4	72.1
Total	Lumens	5093.7	1030.7	6124.4
	% Fixture	83.2	16.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	0.6
10°-20°	130.8	2.1
20°-30°	278.0	4.5
30°-40°	479.3	7.8
40°-50°	707.1	11.5
50°-60°	899.9	14.7
60°-70°	976.8	15.9
70°-80°	893.3	14.6
80°-90°	691.0	11.3
90°-100°	465.7	7.6
100°-110°	283.3	4.6
110°-120°	158.7	2.6
120°-130°	80.8	1.3
130°-140°	33.4	0.5
140°-150°	8.3	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5093.7	83.2
0°-180°	6124.4	100.0

Coefficient of Utilization



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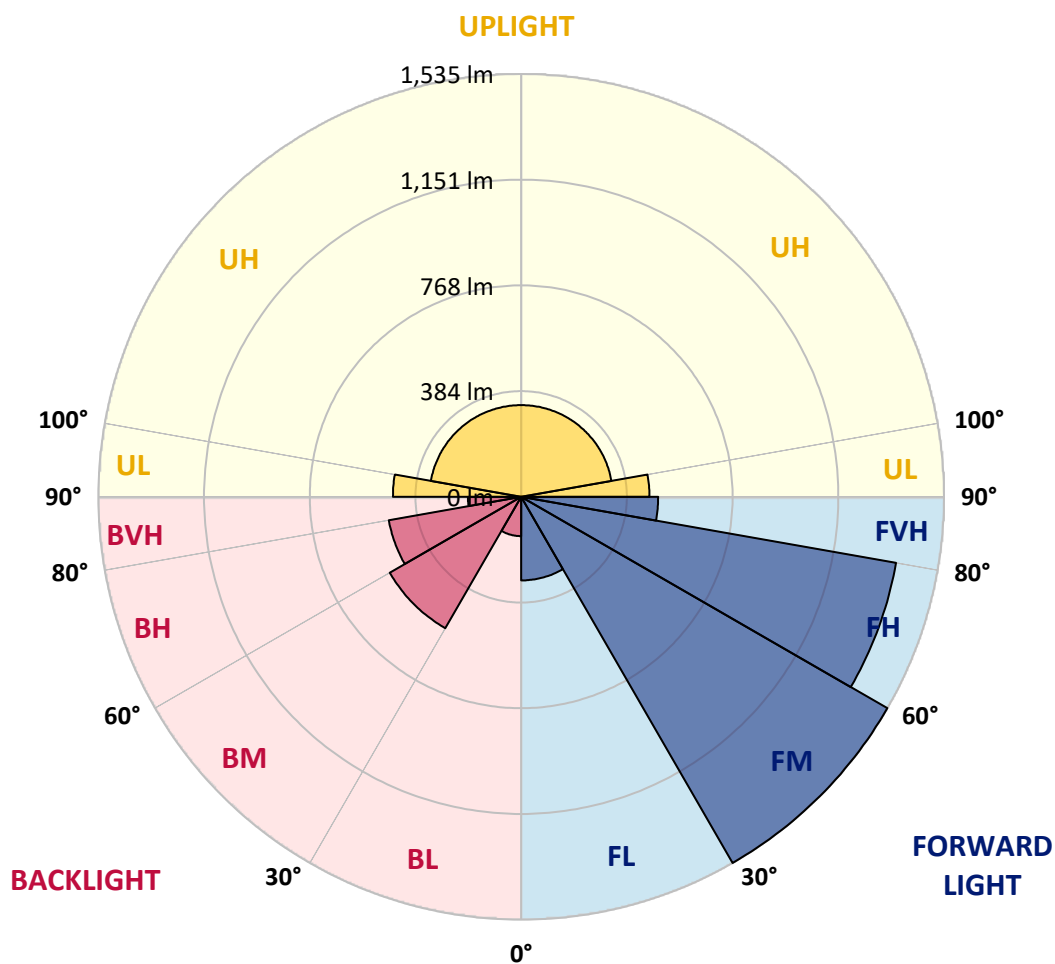
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	303.4	5.0			
FM	(30°-60°)	1535.3	25.1			
FH	(60°-80°)	1382.0	22.6			G1/1800
FVH	(80°-90°)	497.5	8.1			G3/500
BL	(0°-30°)	142.9	2.3	B1/500		
BM	(30°-60°)	551.0	9.0	B1/1000		
BH	(60°-80°)	488.1	8.0	B1/500		G1/500
BVH	(80°-90°)	193.6	3.2			G2/225
UL	(90°-100°)	465.7	7.6		U3/500	
UH	(100°-180°)	332.9	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°	377.9	377.9	377.9	377.9	377.9	377.9	377.9	377.9	377.9	377.9	377.9
2.5°	421.3	420.4	419.6	415.4	413.7	407.9	402.8	397.0	393.7	390.4	383.7
5°	465.4	463.8	461.2	457.1	449.6	441.3	431.3	419.6	413.7	407.0	393.7
7.5°	508.8	508.0	507.2	498.8	491.3	477.9	463.8	447.1	438.7	427.9	407.9
10°	556.4	558.0	553.0	545.5	533.0	518.8	500.4	477.9	467.1	455.4	428.7
12.5°	610.6	609.8	605.6	593.1	579.7	563.9	541.3	517.2	504.6	488.8	454.6
15°	665.6	662.3	657.2	649.0	632.3	613.9	589.7	562.2	548.0	530.5	492.1
17.5°	723.2	720.7	717.4	703.2	689.0	666.5	646.4	616.4	598.9	579.7	535.5
20°	780.7	779.1	774.9	764.0	746.5	726.5	707.4	675.7	655.6	632.3	582.3
22.5°	841.6	840.8	836.7	824.1	810.0	797.4	773.2	737.3	718.2	689.8	631.5
25°	904.2	905.0	897.5	885.9	875.9	864.2	839.1	801.6	778.3	749.0	683.1
27.5°	971.7	968.4	963.4	952.6	944.2	930.9	905.0	866.6	844.1	812.4	739.1
30°	1034.3	1035.1	1024.3	1017.6	1011.8	999.3	975.1	935.9	910.8	881.7	797.4
32.5°	1101.9	1098.5	1091.1	1084.3	1080.2	1066.8	1044.3	1010.2	985.1	948.4	856.6
35°	1161.0	1160.2	1151.9	1153.6	1142.7	1131.9	1115.2	1083.5	1057.6	1022.6	922.5
37.5°	1222.0	1220.3	1214.4	1216.2	1203.6	1195.3	1184.5	1157.0	1135.3	1099.4	990.9
40°	1279.5	1275.4	1271.2	1273.7	1264.6	1258.7	1252.8	1233.7	1211.2	1173.6	1058.5
42.5°	1326.3	1325.4	1322.9	1327.1	1317.9	1316.2	1319.6	1309.6	1289.5	1251.2	1126.9
45°	1366.3	1366.3	1369.6	1372.1	1363.8	1366.3	1382.9	1380.5	1364.6	1326.3	1197.8
47.5°	1398.0	1397.1	1405.5	1408.8	1404.6	1413.8	1441.3	1453.0	1439.7	1403.8	1263.7
50°	1416.4	1416.4	1431.3	1435.5	1436.3	1453.9	1492.3	1518.1	1509.0	1474.7	1326.3
52.5°	1421.4	1423.0	1443.9	1453.0	1456.4	1483.9	1536.5	1575.7	1572.3	1539.7	1382.9
55°	1413.0	1415.5	1443.1	1457.2	1467.2	1505.6	1571.5	1626.5	1624.0	1594.0	1429.7
57.5°	1389.7	1393.0	1428.0	1448.9	1467.2	1517.2	1597.3	1666.6	1669.9	1641.5	1469.7
60°	1353.0	1357.1	1399.7	1427.2	1455.6	1516.4	1610.7	1692.5	1699.9	1670.8	1496.4
62.5°	1302.1	1307.0	1356.3	1394.7	1433.1	1504.8	1611.6	1705.0	1715.0	1689.1	1509.0
63°	1288.7	1297.9	1348.8	1387.1	1427.2	1500.6	1610.7	1705.8	1716.6	1690.7	1509.8
65°	1237.0	1247.0	1305.4	1350.4	1398.8	1481.4	1599.0	1701.6	1715.0	1689.9	1505.6
67.5°	1164.4	1177.8	1239.5	1294.5	1356.3	1447.2	1573.2	1680.7	1695.7	1671.6	1487.3
70°	1081.9	1100.2	1165.2	1233.7	1302.1	1401.3	1533.1	1644.9	1659.0	1634.1	1450.5
72.5°	998.4	1018.4	1089.3	1162.8	1239.5	1344.6	1477.2	1590.7	1604.0	1582.3	1399.7
75°	914.2	929.2	1002.6	1087.7	1171.1	1278.7	1415.5	1521.4	1536.5	1510.6	1336.3
77.5°	824.9	845.8	921.7	1007.6	1096.9	1211.2	1342.1	1442.2	1451.4	1425.5	1254.5
80°	737.3	760.8	834.9	927.5	1021.8	1131.9	1257.0	1354.6	1359.6	1332.1	1167.0
82.5°	660.6	682.3	758.2	847.5	942.5	1055.2	1169.4	1252.8	1256.2	1230.3	1076.0
85°	586.4	605.6	678.1	769.9	865.8	970.1	1079.3	1150.2	1154.4	1123.6	980.1
87.5°	519.7	534.7	604.8	696.5	789.9	892.5	983.5	1042.7	1043.5	1013.4	885.0
90°	462.1	471.3	539.7	629.7	718.2	810.0	895.0	946.7	940.1	908.4	786.5
92.5°	406.2	413.7	476.3	563.9	651.4	734.1	808.2	841.6	834.1	806.6	699.0
95°	361.2	364.5	422.1	504.6	583.1	661.4	724.9	749.0	741.5	712.4	612.2
97.5°	315.3	320.3	372.9	448.0	523.9	594.7	646.4	662.3	648.1	619.7	536.3
100°	281.1	282.7	326.9	398.7	470.5	532.1	573.1	583.1	568.0	542.2	467.1
102.5°	249.4	248.6	288.6	355.4	419.6	471.3	506.4	505.4	489.6	467.1	405.4
105°	221.9	221.1	252.0	313.6	371.2	417.1	442.9	439.6	423.7	402.0	352.8
107.5°	196.0	197.7	220.2	274.5	326.1	367.0	386.2	378.7	364.5	344.5	306.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	176.9	176.9	194.4	241.1	288.6	321.9	337.0	326.1	312.8	292.8	264.4
112.5°	159.3	159.3	171.9	210.2	253.6	283.6	293.6	279.5	263.6	250.2	229.3
115°	143.5	143.5	151.8	182.7	221.1	246.0	252.0	236.9	223.5	213.5	200.2
117.5°	130.1	130.1	135.1	156.8	191.0	214.4	217.7	201.0	191.8	181.9	174.3
120°	117.6	118.5	120.1	134.3	162.6	182.7	184.3	168.5	161.0	156.0	151.8
122.5°	106.8	106.8	107.6	115.9	138.5	155.2	155.2	141.8	136.8	135.1	131.8
125°	96.8	96.8	96.8	100.0	115.1	128.5	126.7	118.5	115.9	115.9	114.3
127.5°	87.6	86.7	85.9	86.7	94.2	103.4	103.4	97.6	97.6	98.4	99.2
130°	78.4	77.5	75.9	74.3	75.1	81.7	80.9	79.3	80.9	83.4	85.1
132.5°	69.3	69.3	66.7	62.6	60.0	61.7	62.6	63.4	65.9	69.3	71.7
135°	60.0	60.0	57.6	51.8	46.7	45.8	45.0	49.2	53.4	56.7	59.2
137.5°	50.8	50.8	48.4	41.7	35.0	31.7	30.9	37.5	41.7	45.0	47.6
140°	42.6	41.7	39.2	32.5	25.1	20.0	20.0	26.7	30.9	34.2	37.5
142.5°	33.3	33.3	30.9	25.1	16.7	11.7	12.5	18.3	21.7	24.1	26.7
145°	25.1	25.1	22.5	16.7	10.0	5.8	6.6	11.7	14.2	16.7	19.2
147.5°	17.5	17.5	15.0	10.8	5.0	1.6	3.4	6.6	8.4	10.0	11.7
150°	10.8	10.8	9.2	5.8	2.5	0.0	0.8	3.4	4.2	5.0	6.6
152.5°	5.8	5.8	4.2	2.5	0.8	0.0	0.0	0.8	1.6	2.5	3.4
155°	2.5	2.5	1.6	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°	377.9	377.9	377.9	377.9	377.9	377.9	377.9	377.9	377.9	377.9	377.9
2.5°	380.3	377.1	369.5	362.8	357.0	351.2	346.2	342.0	341.2	338.7	339.5
5°	386.2	379.5	365.3	352.8	339.5	328.7	320.3	312.8	307.0	304.4	303.6
7.5°	397.8	387.0	365.3	345.3	326.9	310.3	296.1	285.3	278.5	274.5	275.3
10°	414.6	400.4	371.2	343.6	317.8	295.3	276.9	263.6	253.6	249.4	249.4
12.5°	436.3	419.6	382.1	346.2	313.6	285.3	261.9	245.2	236.1	230.3	230.3
15°	471.3	447.1	400.4	354.5	313.6	279.5	253.6	235.2	226.9	222.7	221.9
17.5°	508.8	482.1	426.3	371.2	321.1	278.5	252.8	236.9	226.9	221.9	221.9
20°	549.7	518.0	453.8	390.4	333.7	288.6	259.4	240.2	227.7	221.1	220.2
22.5°	593.9	558.8	482.9	410.4	348.6	305.2	267.7	242.7	227.7	221.1	220.2
25°	643.1	600.6	513.0	432.9	368.7	320.3	277.7	246.0	227.7	219.4	218.5
27.5°	693.2	645.6	546.4	454.6	389.5	334.5	286.9	248.6	227.7	218.5	217.7
30°	747.4	690.7	578.9	479.7	408.7	347.0	294.4	251.0	227.7	217.7	216.9
32.5°	800.8	739.9	613.9	508.0	427.1	357.0	301.2	256.0	228.5	216.9	215.2
35°	860.0	792.4	651.4	536.3	443.8	366.2	307.0	259.4	227.7	215.2	214.4
37.5°	921.7	844.1	685.7	561.4	457.1	372.9	310.3	261.9	227.7	214.4	212.7
40°	983.5	896.7	722.3	586.4	469.6	378.7	313.6	264.4	226.9	212.7	211.0
42.5°	1043.5	948.4	758.2	607.2	479.7	382.9	315.3	266.1	226.9	211.0	209.4
45°	1105.2	1001.0	795.8	627.3	487.1	384.5	315.3	266.1	227.7	209.4	207.7
47.5°	1164.4	1050.2	829.9	643.1	493.0	385.3	315.3	266.1	227.7	207.7	205.2
50°	1217.0	1095.2	858.4	656.4	496.3	385.3	314.5	266.1	227.7	205.2	202.6
52.5°	1267.8	1134.5	885.0	665.6	498.0	383.7	312.8	264.4	227.7	202.6	200.2
55°	1308.8	1169.4	903.4	671.5	496.3	381.2	309.4	262.8	226.9	200.2	196.8
57.5°	1341.3	1194.5	917.5	673.1	493.0	377.1	306.2	260.2	225.3	196.8	194.4
60°	1362.2	1208.6	921.7	669.8	487.9	371.2	302.0	257.8	222.7	193.5	190.2
62.5°	1369.6	1213.6	920.0	663.1	480.5	365.3	297.8	254.4	220.2	189.3	186.0
63°	1369.6	1212.8	919.2	661.4	477.9	363.7	297.0	253.6	219.4	188.5	185.2
65°	1364.6	1206.2	910.8	651.4	470.5	357.8	292.8	250.2	217.7	186.0	181.9
67.5°	1343.7	1188.7	891.7	636.5	458.0	349.5	286.1	245.2	213.5	181.9	177.7
70°	1310.4	1158.6	865.8	616.4	444.6	340.3	279.5	240.2	209.4	177.7	172.7
72.5°	1261.2	1116.9	833.3	593.1	428.7	330.3	271.9	234.4	203.6	172.7	166.8
75°	1200.3	1066.0	794.9	566.4	412.9	318.6	264.4	227.7	197.7	167.7	160.2
77.5°	1128.5	1006.8	750.7	538.9	394.6	307.0	255.2	220.2	191.8	162.6	153.4
80°	1048.5	936.7	703.2	508.0	375.3	294.4	246.0	212.7	183.5	156.0	146.8
82.5°	968.4	866.6	653.2	476.3	356.2	281.9	236.1	204.4	176.0	149.4	140.1
85°	881.7	793.3	604.0	443.8	336.1	267.7	226.1	195.2	168.5	142.6	132.6
87.5°	798.2	719.0	549.7	412.0	317.0	255.2	216.0	186.0	159.3	134.3	126.7
90°	717.4	648.1	503.0	379.5	296.1	241.1	205.2	176.0	150.2	125.9	120.1
92.5°	638.9	576.3	452.1	349.5	276.9	227.7	193.5	166.0	141.0	118.5	113.4
95°	565.5	513.8	409.6	319.5	258.6	214.4	182.7	156.8	130.9	109.3	106.0
97.5°	496.3	454.6	367.9	293.6	238.6	201.0	171.0	146.0	120.9	101.0	99.2
100°	437.9	402.0	328.7	266.9	221.1	187.7	160.2	135.1	110.9	92.6	92.6
102.5°	382.9	351.2	292.0	241.9	203.6	173.5	147.6	124.3	101.0	85.1	85.1
105°	334.5	308.6	261.1	219.4	186.9	160.2	136.0	113.4	90.1	77.5	77.5
107.5°	290.3	270.3	231.9	198.6	170.1	146.0	124.3	101.8	79.3	70.1	70.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	254.4	238.6	206.0	177.7	154.4	134.3	113.4	90.9	69.3	63.4	63.4
112.5°	220.2	207.7	181.9	160.2	140.1	121.7	101.8	80.1	60.9	57.6	57.6
115°	192.7	182.7	161.0	142.6	125.9	109.3	90.1	69.3	52.6	50.8	51.8
117.5°	168.5	160.2	143.5	128.5	113.4	97.6	80.1	59.2	45.8	45.8	45.8
120°	146.8	141.0	125.9	113.4	101.0	85.9	69.3	50.0	40.0	40.0	40.9
122.5°	129.3	123.5	112.6	100.0	88.4	75.1	59.2	41.7	35.0	35.9	36.7
125°	111.8	108.4	98.4	87.6	76.7	63.4	49.2	34.2	30.9	31.7	32.5
127.5°	97.6	95.1	85.1	75.9	65.9	53.4	40.0	27.5	25.9	27.5	28.3
130°	83.4	81.7	74.3	65.1	55.0	44.2	31.7	22.5	22.5	24.1	24.1
132.5°	70.9	69.3	62.6	53.4	45.0	34.2	24.1	18.3	19.2	20.9	20.9
135°	59.2	57.6	51.8	44.2	35.0	25.9	18.3	15.0	16.7	17.5	17.5
137.5°	48.4	46.7	41.7	34.2	25.9	18.3	13.3	11.7	13.3	15.0	15.0
140°	36.7	36.7	32.5	25.9	18.3	12.5	9.2	9.2	10.8	11.7	11.7
142.5°	27.5	26.7	24.1	18.3	11.7	7.5	5.8	6.6	8.4	9.2	9.2
145°	19.2	18.3	16.7	12.5	6.6	4.2	3.4	5.0	5.8	6.6	6.6
147.5°	12.5	11.7	10.8	7.5	3.4	1.6	1.6	3.4	4.2	5.0	5.0
150°	6.6	6.6	5.8	3.4	1.6	0.0	0.8	1.6	2.5	2.5	2.5
152.5°	3.4	3.4	2.5	1.6	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)