

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: P240159

Luminaire Tested: **UTLD-AF24-70-D-U-T3-FP**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-25)
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-T3-FP
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6346.4 lumens
Efficiency: N/A
Efficacy: 85.8 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: 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

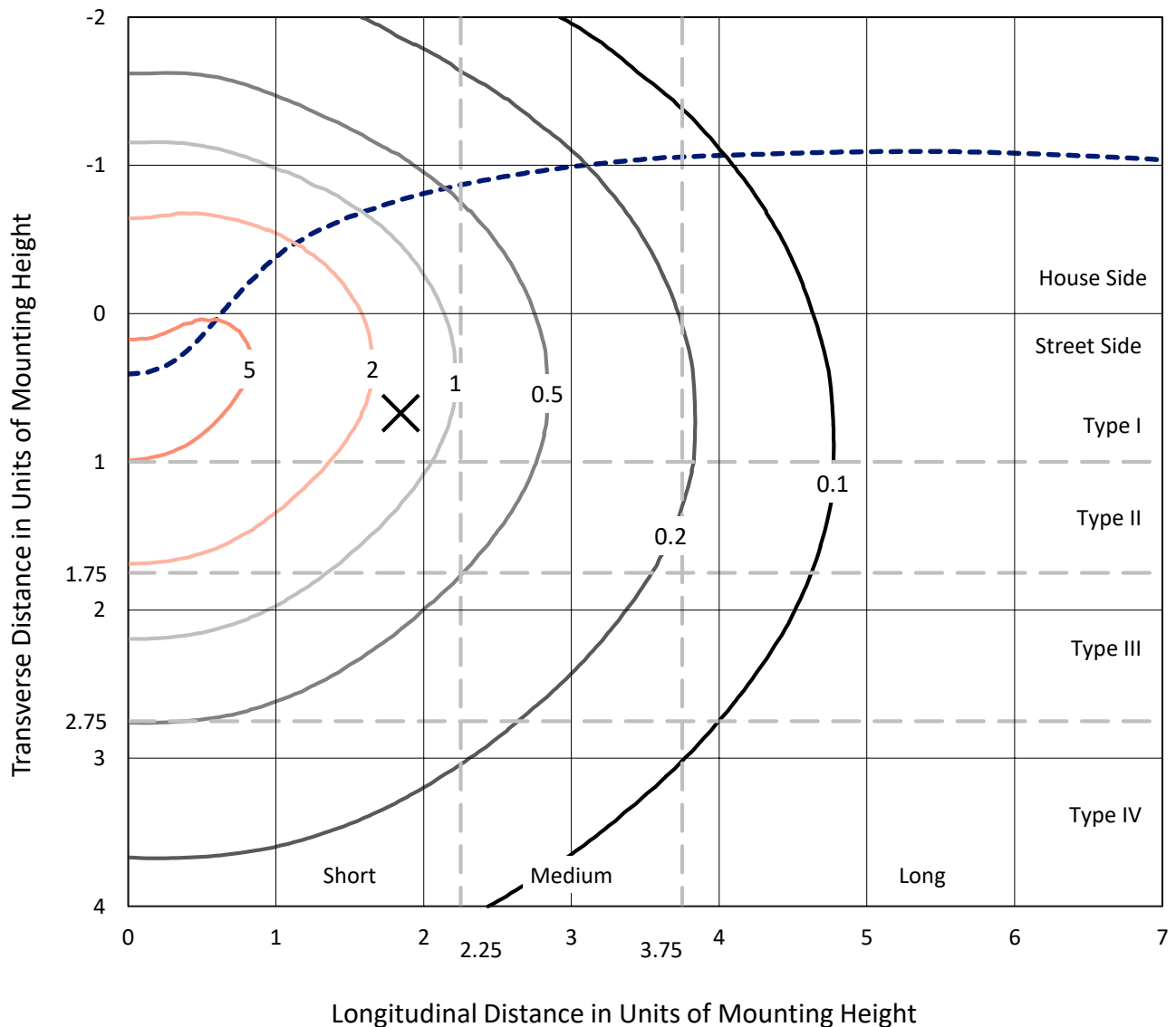


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

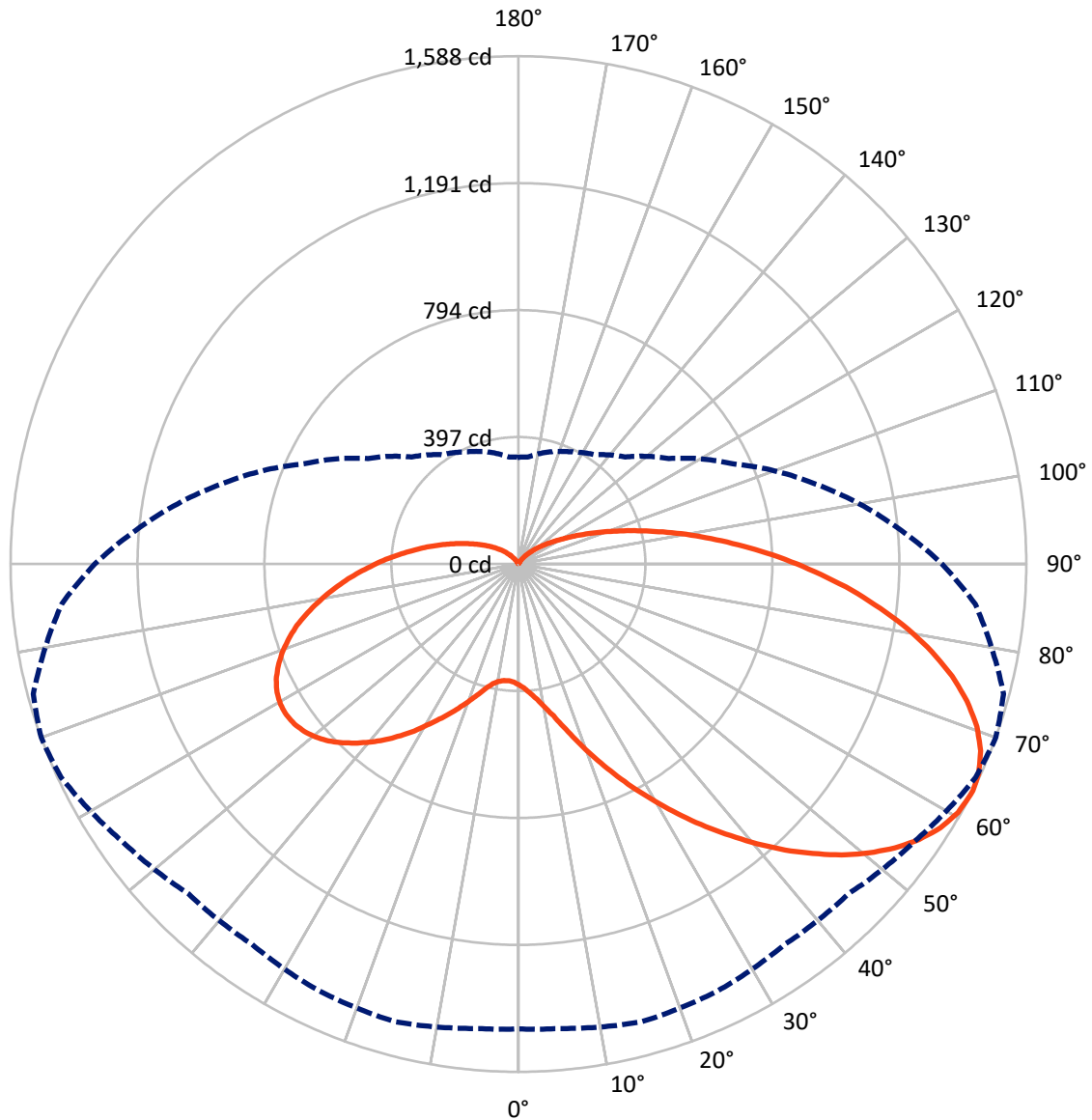


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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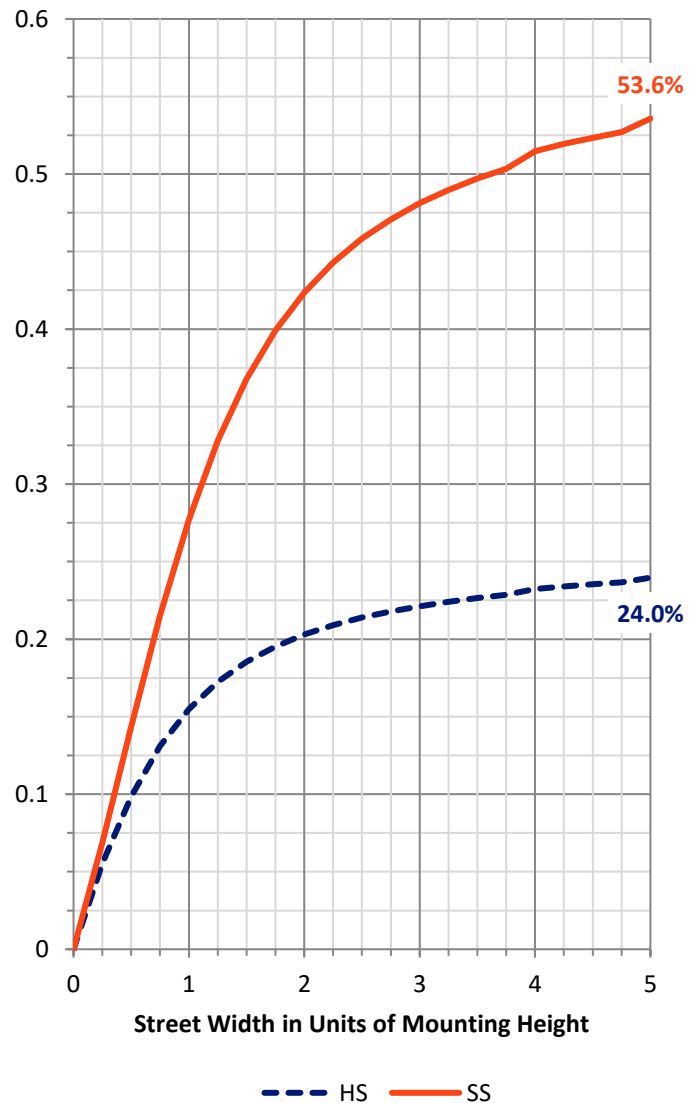
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1622.2	367.2	1989.4
	% Fixture	25.6	5.8	31.3
Street Side	Lumens	3667.1	689.9	4357.0
	% Fixture	57.8	10.9	68.7
Total	Lumens	5289.3	1057.1	6346.4
	% Fixture	83.3	16.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.6	0.6
10°-20°	132.4	2.1
20°-30°	284.4	4.5
30°-40°	495.6	7.8
40°-50°	736.5	11.6
50°-60°	940.4	14.8
60°-70°	1019.6	16.1
70°-80°	928.4	14.6
80°-90°	714.3	11.3
90°-100°	479.1	7.5
100°-110°	290.4	4.6
110°-120°	162.1	2.6
120°-130°	82.3	1.3
130°-140°	34.1	0.5
140°-150°	8.7	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5289.3	83.3
0°-180°	6346.4	100.0



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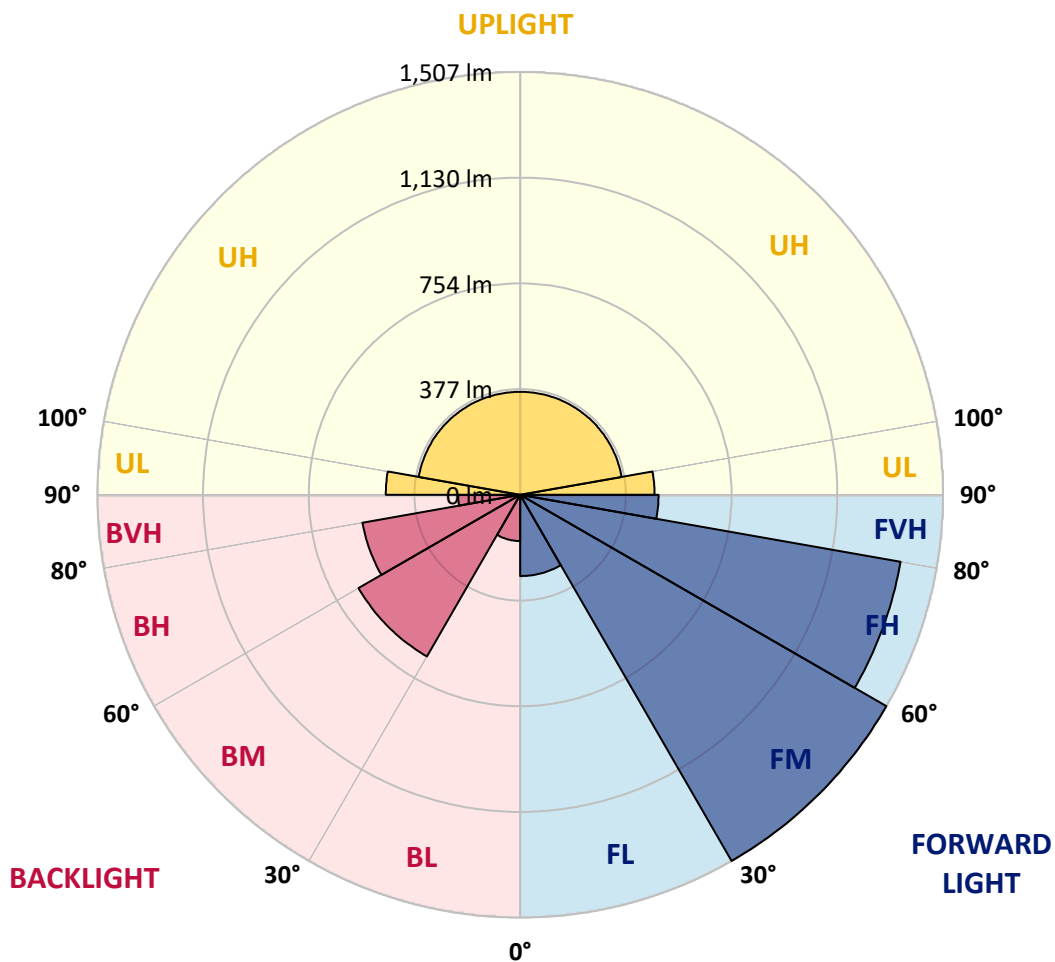
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	289.7	4.6			
FM	(30°-60°)	1507.3	23.8			
FH	(60°-80°)	1377.0	21.7			G1/1800
FVH	(80°-90°)	493.1	7.8			G3/500
BL	(0°-30°)	164.8	2.6	B1/500		
BM	(30°-60°)	665.2	10.5	B1/1000		
BH	(60°-80°)	571.0	9.0	B2/1000		G2/1000
BVH	(80°-90°)	221.1	3.5			G2/225
UL	(90°-100°)	479.1	7.5		U3/500	
UH	(100°-180°)	367.2	5.8		U3/500	

BUG Rating: B2-U4-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	378.7	378.7	378.7	378.7	378.7	378.7	378.7	378.7	378.7	378.7	378.7
2.5°	409.6	409.6	408.8	408.0	405.4	402.1	397.1	393.7	390.4	387.9	382.9
5°	444.6	446.3	442.9	441.3	435.5	428.7	421.3	412.0	408.0	402.1	392.1
7.5°	482.1	483.9	480.5	476.3	468.8	458.8	447.1	435.5	427.9	420.4	405.4
10°	523.9	524.7	520.5	515.6	506.4	493.9	481.3	463.8	455.4	445.5	425.4
12.5°	570.6	568.9	565.6	557.2	546.4	533.1	516.4	498.8	487.1	475.5	450.4
15°	624.0	623.1	617.2	607.3	593.9	578.9	558.9	539.7	528.0	515.6	485.5
17.5°	679.9	678.2	672.4	660.6	646.5	627.3	612.2	589.7	575.6	562.2	528.0
20°	735.7	734.9	730.7	717.4	701.5	686.5	666.6	643.1	629.0	610.6	571.4
22.5°	799.9	797.5	790.8	779.1	765.8	750.7	729.9	700.7	684.9	667.4	620.6
25°	864.2	863.4	855.0	842.5	831.7	815.0	794.9	760.8	744.9	720.8	670.6
27.5°	931.0	929.2	921.0	907.6	899.3	883.4	858.4	825.0	805.8	782.5	726.6
30°	1000.1	999.3	989.3	976.0	966.8	951.8	926.0	890.1	870.8	845.1	782.5
32.5°	1069.4	1069.4	1059.4	1047.7	1036.9	1017.7	993.5	959.3	938.5	910.9	840.9
35°	1142.0	1137.8	1130.3	1119.4	1101.9	1082.8	1061.1	1030.2	1008.5	978.5	904.3
37.5°	1210.4	1210.4	1197.9	1188.7	1169.5	1147.9	1127.8	1101.9	1077.8	1048.5	966.0
40°	1278.0	1278.8	1267.1	1255.5	1230.4	1210.4	1192.9	1172.0	1150.3	1120.3	1033.6
42.5°	1343.0	1341.4	1330.6	1317.2	1289.6	1267.1	1256.3	1238.8	1222.9	1191.2	1098.6
45°	1403.1	1398.9	1390.6	1374.7	1343.0	1320.5	1316.3	1307.9	1291.3	1262.9	1164.5
47.5°	1449.8	1447.3	1444.0	1423.1	1390.6	1368.9	1368.9	1372.2	1359.7	1330.6	1226.2
50°	1488.2	1487.4	1485.6	1462.3	1427.3	1410.5	1417.3	1429.0	1420.6	1394.7	1281.2
52.5°	1514.1	1513.1	1515.7	1491.5	1457.3	1442.3	1458.1	1481.5	1474.8	1451.5	1333.8
55°	1524.0	1524.0	1531.6	1509.1	1474.8	1463.1	1489.0	1521.5	1520.7	1499.9	1373.9
57.5°	1519.9	1520.7	1534.0	1513.1	1481.5	1474.8	1509.1	1553.2	1556.5	1535.8	1407.3
60°	1500.7	1501.5	1519.9	1504.0	1476.5	1474.8	1518.2	1572.4	1579.1	1560.7	1426.4
62.5°	1463.9	1467.3	1489.8	1479.8	1457.3	1463.1	1514.9	1578.2	1587.4	1569.9	1434.0
63°	1453.9	1458.1	1482.4	1473.2	1452.3	1458.9	1512.3	1578.2	1588.2	1570.7	1434.0
65°	1413.1	1418.1	1445.6	1441.4	1426.4	1439.0	1498.2	1569.1	1581.6	1565.7	1426.4
67.5°	1347.2	1357.3	1388.9	1392.2	1384.8	1403.9	1469.0	1545.7	1559.1	1544.0	1403.9
70°	1267.9	1279.6	1320.5	1330.6	1328.8	1357.3	1426.4	1506.5	1520.7	1505.7	1365.5
72.5°	1182.8	1198.7	1236.2	1257.9	1268.8	1299.7	1373.9	1453.1	1467.3	1451.5	1314.7
75°	1090.3	1106.9	1153.7	1180.4	1197.1	1235.4	1308.9	1388.0	1400.6	1388.0	1250.5
77.5°	997.7	1014.4	1061.9	1096.1	1122.0	1167.8	1240.4	1313.0	1322.2	1308.9	1175.4
80°	902.5	921.8	967.6	1007.7	1042.7	1088.6	1158.7	1224.6	1235.4	1217.9	1094.5
82.5°	808.3	825.0	876.7	923.4	961.0	1006.9	1073.6	1135.3	1140.3	1122.8	1005.2
85°	723.2	737.4	788.3	838.3	882.6	927.6	989.3	1038.5	1046.1	1023.6	916.8
87.5°	643.1	654.0	707.4	756.6	801.7	851.7	906.7	945.9	945.9	928.4	824.2
90°	568.9	576.4	624.8	679.0	727.4	771.6	823.4	856.7	852.5	830.8	737.4
92.5°	497.2	506.4	553.9	605.6	654.8	700.7	742.5	765.0	759.1	736.6	654.0
95°	437.9	442.1	488.9	542.2	587.3	629.0	665.6	681.5	672.4	649.8	571.4
97.5°	383.7	387.1	427.9	478.8	527.2	565.6	590.5	600.6	591.5	568.9	503.8
100°	339.5	340.3	377.1	426.3	471.3	504.7	527.2	527.2	518.8	496.3	437.1
102.5°	296.1	297.8	327.9	377.1	419.6	448.8	466.3	464.6	449.6	427.1	379.5
105°	261.1	262.8	286.1	333.7	372.0	398.7	413.0	402.9	388.7	368.7	328.7
107.5°	230.3	231.1	249.4	292.0	328.7	353.7	361.2	350.4	334.5	315.3	286.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	206.0	205.2	219.4	256.0	291.1	312.0	316.2	302.8	286.9	271.1	247.8
112.5°	182.7	182.7	191.9	222.7	255.2	275.3	276.9	257.8	244.4	230.3	215.2
115°	163.5	162.6	169.3	193.5	223.5	240.3	238.6	221.1	208.6	196.8	186.9
117.5°	146.8	145.2	150.2	166.8	194.4	210.2	206.0	186.0	176.9	168.5	162.6
120°	131.8	130.9	133.5	145.2	166.8	179.3	175.1	157.6	149.4	145.2	141.8
122.5°	118.5	118.5	117.6	125.1	141.8	151.8	146.0	131.8	126.7	124.3	124.3
125°	106.8	106.8	105.1	107.6	118.5	126.7	121.8	110.1	106.8	106.8	107.6
127.5°	95.1	95.1	93.4	92.6	97.6	103.4	97.6	90.9	90.1	90.9	92.6
130°	84.3	83.4	81.7	78.5	79.3	81.7	77.5	74.3	75.1	77.5	79.3
132.5°	74.3	73.4	70.9	65.9	62.6	62.6	59.2	59.2	61.7	64.2	67.6
135°	64.2	63.4	60.9	55.0	49.2	45.9	43.4	46.7	50.0	52.6	55.9
137.5°	54.2	53.4	50.0	44.2	36.7	31.7	30.9	35.9	39.2	42.6	45.0
140°	44.2	43.4	40.0	34.2	25.9	20.0	20.0	26.7	30.1	32.5	35.9
142.5°	35.0	34.2	31.7	25.1	16.7	12.5	13.3	19.2	21.7	24.1	26.7
145°	25.9	25.9	23.3	17.5	10.0	5.8	7.5	12.5	15.0	16.7	19.2
147.5°	17.5	17.5	15.0	10.8	5.8	2.5	3.4	7.5	9.2	10.8	12.5
150°	10.8	10.8	9.2	5.8	2.5	0.0	1.6	3.4	5.0	5.8	7.5
152.5°	5.8	5.8	4.2	2.5	0.8	0.0	0.0	1.6	1.6	2.5	3.4
155°	2.5	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8
157.5°	0.8	0.0	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°	378.7	378.7	378.7	378.7	378.7	378.7	378.7	378.7	378.7	378.7	378.7
2.5°	380.3	377.9	372.0	367.9	362.8	358.6	356.2	352.0	349.5	350.4	349.5
5°	387.1	382.1	371.2	362.0	352.0	343.7	337.0	331.1	327.9	325.3	326.1
7.5°	397.9	390.4	374.5	359.6	344.5	332.0	322.0	314.5	307.8	306.2	305.4
10°	414.6	404.6	382.1	362.0	342.9	325.3	312.0	301.2	294.5	291.1	291.1
12.5°	437.9	423.8	395.4	368.7	344.5	322.8	306.2	292.8	285.3	281.9	281.1
15°	470.5	453.0	417.9	382.1	351.2	325.3	305.4	292.0	286.1	284.5	283.7
17.5°	508.0	488.9	445.5	403.8	364.6	332.0	312.8	302.0	295.3	292.0	291.1
20°	550.6	525.5	476.3	427.9	383.7	349.5	327.9	312.8	304.4	300.3	299.4
22.5°	593.9	566.4	509.6	453.8	405.4	373.7	342.9	324.5	312.8	307.8	306.2
25°	640.7	609.8	543.9	481.3	432.1	396.2	361.2	334.5	321.2	315.3	315.3
27.5°	690.7	654.8	579.7	509.6	459.6	417.1	378.7	345.3	329.5	322.8	322.0
30°	743.3	703.2	616.4	540.5	485.5	436.3	393.7	357.0	337.9	330.3	329.5
32.5°	799.9	754.1	657.3	573.9	509.6	453.8	407.0	367.9	345.3	336.1	335.3
35°	855.9	804.1	695.7	606.4	531.3	468.8	417.9	378.7	351.2	342.0	341.2
37.5°	917.6	857.5	736.6	638.1	551.4	480.5	427.1	387.1	357.0	347.0	345.3
40°	976.8	910.1	775.0	666.6	568.0	491.3	434.7	394.6	362.0	351.2	349.5
42.5°	1035.2	963.5	813.3	693.2	582.3	498.0	439.6	399.6	367.0	354.6	352.0
45°	1093.6	1013.5	852.5	714.8	593.1	503.8	442.9	403.8	371.2	356.2	354.6
47.5°	1147.9	1062.7	888.4	734.1	600.6	506.4	444.6	405.4	374.5	357.0	354.6
50°	1199.5	1105.3	918.4	748.3	605.6	506.4	444.6	406.2	376.2	357.0	355.4
52.5°	1244.6	1142.0	942.6	757.4	606.4	503.8	442.1	405.4	376.2	355.4	352.8
55°	1278.8	1172.0	960.1	761.6	604.0	499.7	437.9	402.9	375.4	352.8	350.4
57.5°	1306.3	1192.9	971.0	760.8	598.1	493.0	432.9	399.6	372.9	348.7	346.2
60°	1323.0	1203.7	972.6	754.9	589.7	484.7	426.3	394.6	369.5	344.5	341.2
62.5°	1325.5	1202.9	966.8	743.3	577.3	474.6	417.9	387.9	363.7	337.9	334.5
63°	1324.6	1202.1	963.5	740.7	574.8	473.0	417.1	387.1	362.8	336.1	333.7
65°	1315.5	1192.0	950.9	727.4	563.0	463.0	409.6	380.3	357.8	331.1	327.0
67.5°	1291.3	1169.5	927.6	704.9	545.5	449.6	398.7	372.0	349.5	322.8	318.6
70°	1254.6	1137.8	895.9	679.9	527.2	435.5	387.1	361.2	340.3	313.6	308.6
72.5°	1205.3	1091.9	859.2	650.7	505.5	419.6	373.7	349.5	328.7	303.6	296.1
75°	1146.1	1038.5	818.4	619.0	482.1	402.9	360.4	337.9	317.0	292.0	284.5
77.5°	1075.2	977.6	767.4	585.6	459.6	385.3	345.3	323.7	303.6	278.7	271.1
80°	999.3	910.1	716.6	548.1	434.7	367.0	330.3	308.6	288.6	265.3	256.0
82.5°	919.2	837.5	662.4	512.2	409.6	347.8	314.5	292.8	273.6	251.1	242.7
85°	838.3	765.0	609.8	476.3	383.7	329.5	297.8	277.7	257.0	235.3	226.9
87.5°	758.3	694.1	558.9	438.7	359.6	311.2	281.1	261.1	240.3	219.4	212.7
90°	681.5	625.6	505.5	403.8	334.5	291.1	264.4	244.4	224.4	203.6	196.8
92.5°	604.8	556.4	457.2	372.0	311.2	272.8	247.8	227.7	206.8	186.9	182.7
95°	536.3	494.7	411.2	337.9	288.6	255.2	231.1	211.9	190.2	171.0	168.5
97.5°	472.1	436.3	366.2	308.6	266.1	236.1	214.4	194.4	172.7	155.2	153.4
100°	414.6	385.3	327.9	278.7	243.6	218.6	198.6	178.5	156.8	141.8	140.1
102.5°	362.0	338.7	292.0	252.0	223.5	201.0	181.1	161.8	141.0	127.7	127.7
105°	317.0	296.1	258.6	226.9	202.7	182.7	164.3	145.2	124.3	113.4	113.4
107.5°	274.5	260.2	229.4	202.7	183.5	166.0	148.5	129.3	109.3	101.0	101.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	239.4	227.7	201.8	181.9	166.0	150.2	133.5	114.3	95.1	89.3	90.1
112.5°	208.6	199.4	177.7	161.8	148.5	135.1	118.5	99.2	82.6	79.3	80.1
115°	181.9	174.3	157.6	143.5	132.7	120.1	105.1	85.9	71.7	70.1	70.1
117.5°	158.5	152.6	138.5	127.7	117.6	106.8	91.8	74.3	61.7	61.7	61.7
120°	139.3	134.3	122.7	112.6	104.2	93.4	79.3	62.6	53.4	54.2	54.2
122.5°	120.9	117.6	106.8	99.2	90.9	81.7	67.6	51.8	45.9	47.6	48.4
125°	106.0	102.6	94.2	85.9	78.5	69.3	55.9	43.4	40.0	41.7	41.7
127.5°	90.9	89.3	81.7	74.3	67.6	58.4	45.9	35.9	35.0	36.7	36.7
130°	78.5	76.7	70.9	62.6	55.9	47.6	36.7	29.2	29.2	30.9	30.9
132.5°	66.7	65.9	60.0	52.6	45.9	37.5	29.2	23.3	25.1	26.7	26.7
135°	55.0	55.0	50.0	42.6	35.9	28.3	21.7	19.2	20.9	22.5	22.5
137.5°	45.0	44.2	40.0	33.3	26.7	20.9	15.9	15.0	17.5	19.2	19.2
140°	35.9	35.0	31.7	25.9	19.2	14.2	10.8	11.7	14.2	15.0	15.9
142.5°	26.7	26.7	23.3	19.2	12.5	8.4	6.6	9.2	10.8	11.7	12.5
145°	19.2	19.2	16.7	12.5	7.5	4.2	4.2	6.6	8.4	9.2	9.2
147.5°	12.5	12.5	10.8	7.5	4.2	1.6	2.5	4.2	5.8	6.6	6.6
150°	7.5	6.6	5.8	3.4	1.6	0.0	0.8	1.6	3.4	4.2	3.4
152.5°	3.4	3.4	2.5	1.6	0.8	0.0	0.0	0.0	0.8	1.6	1.6
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	0.0	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)