

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: P266552

Luminaire Tested: **UTLD-AF24-100-D-U-T3-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266552
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-AF24-100-D-U-T3-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1200mA 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: 6391.4 lumens
Efficiency: N/A
Efficacy: 66.6 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): 96
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



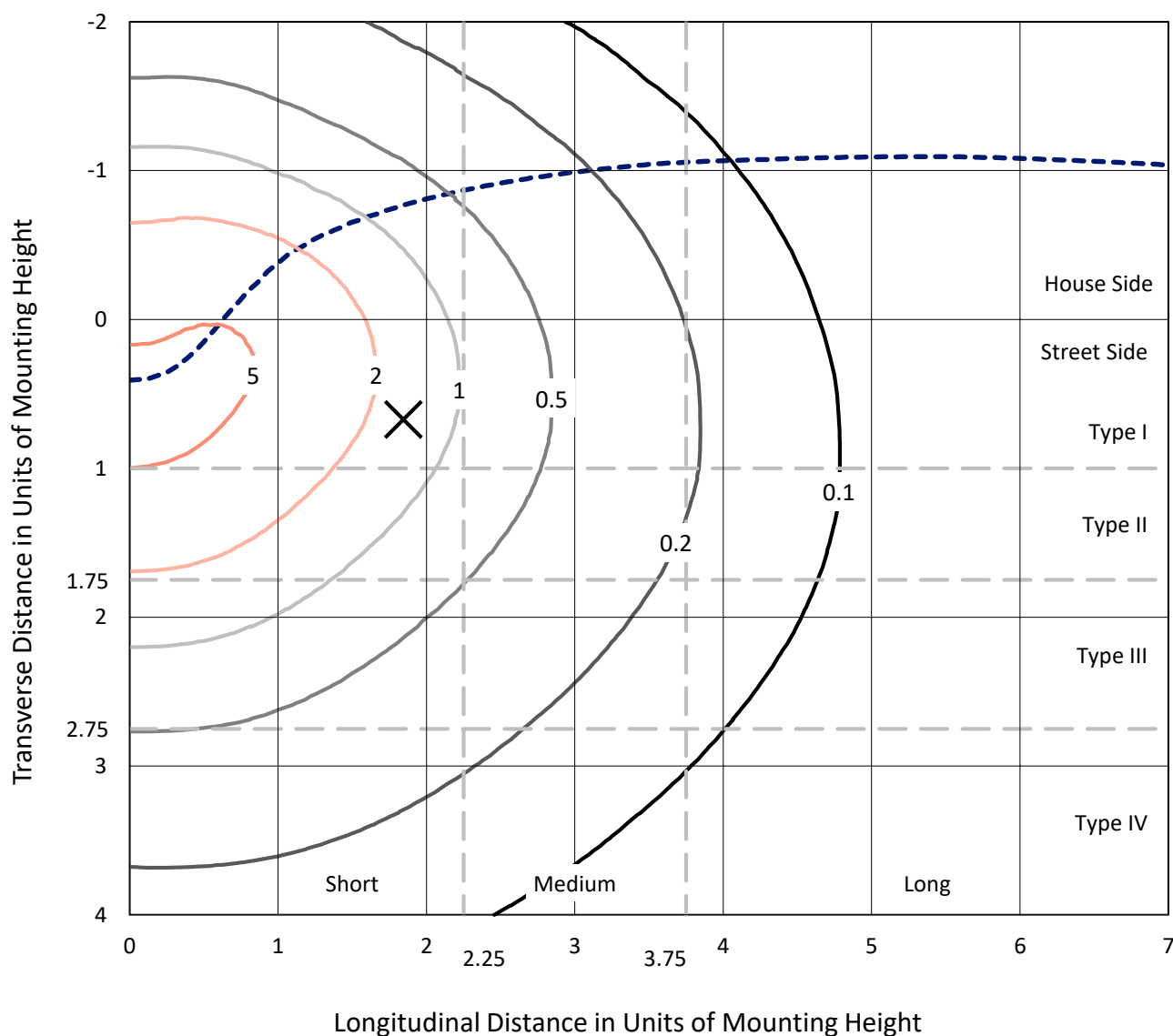
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

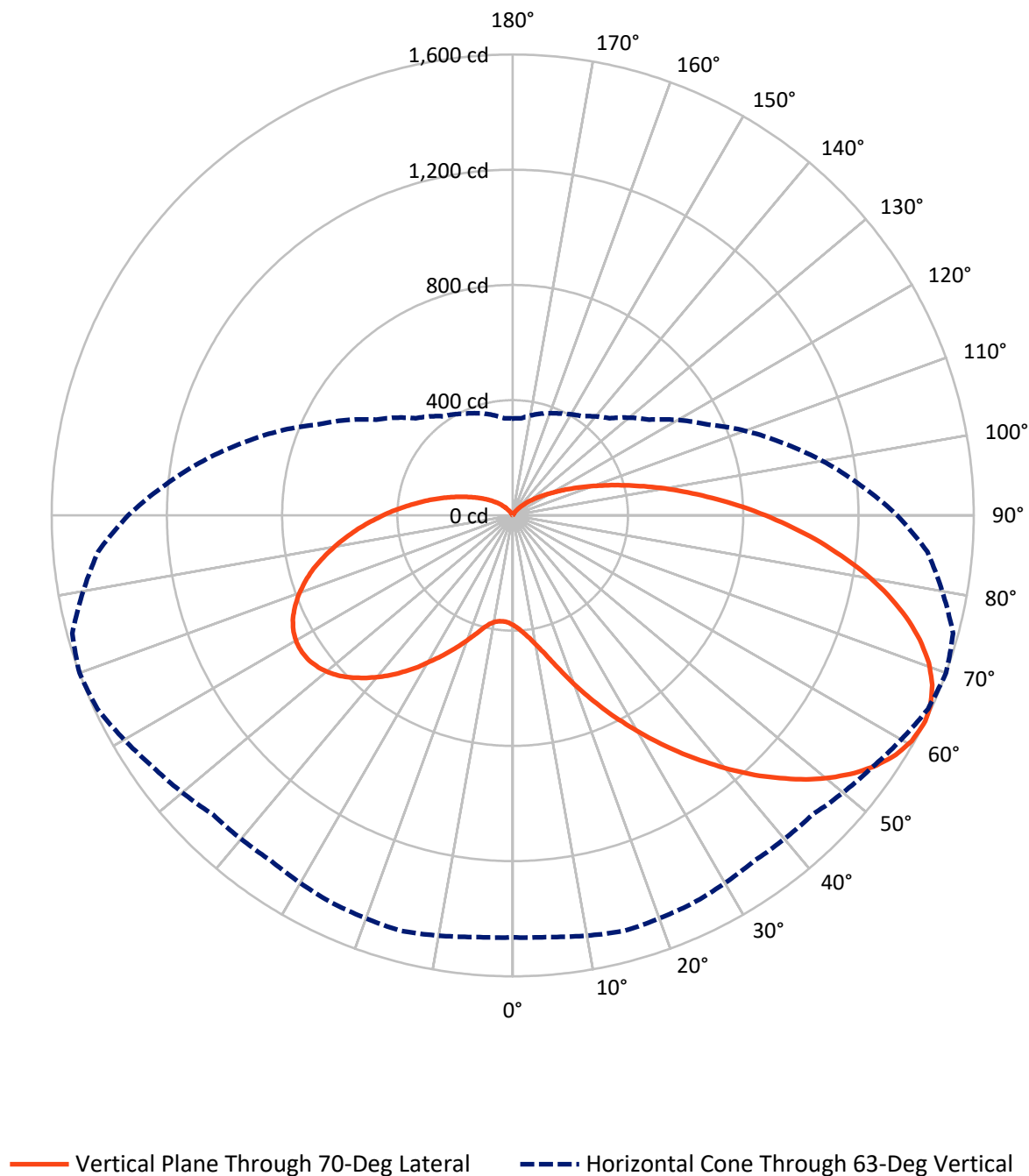


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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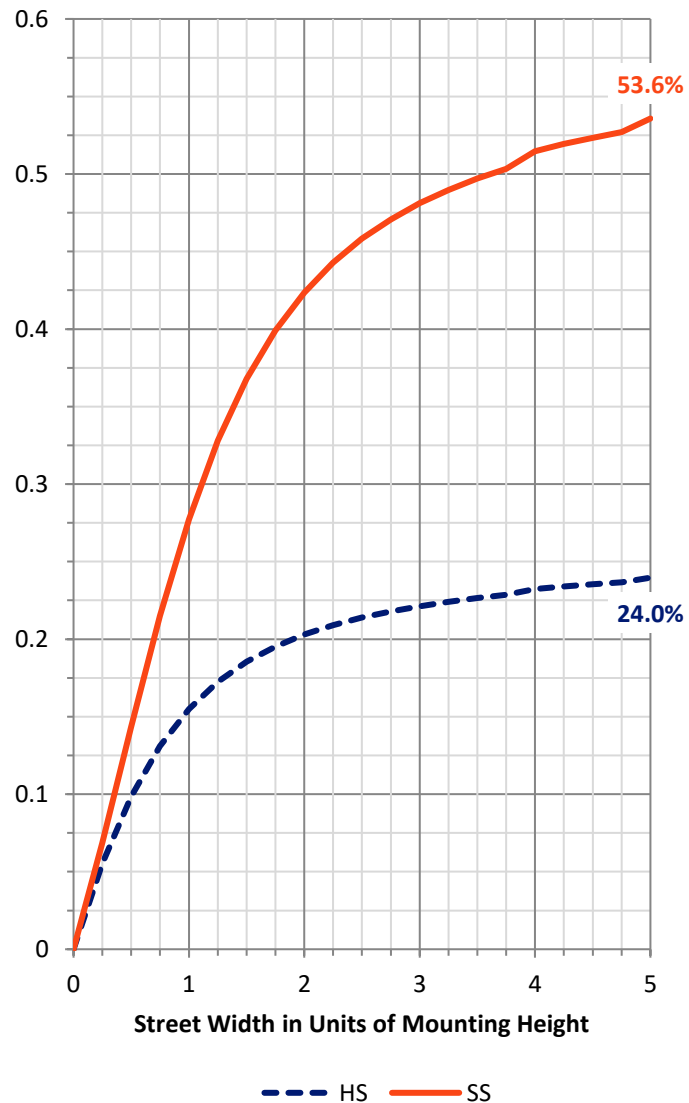
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1633.7	369.8	2003.5
	% Fixture	25.6	5.8	31.3
Street Side	Lumens	3693.1	694.8	4387.9
	% Fixture	57.8	10.9	68.7
Total	Lumens	5326.8	1064.6	6391.4
	% Fixture	83.3	16.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.9	0.6
10°-20°	133.3	2.1
20°-30°	286.4	4.5
30°-40°	499.2	7.8
40°-50°	741.7	11.6
50°-60°	947.1	14.8
60°-70°	1026.8	16.1
70°-80°	935.0	14.6
80°-90°	719.3	11.3
90°-100°	482.5	7.5
100°-110°	292.4	4.6
110°-120°	163.2	2.6
120°-130°	82.8	1.3
130°-140°	34.3	0.5
140°-150°	8.8	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5326.8	83.3
0°-180°	6391.4	100.0

Coefficient of Utilization



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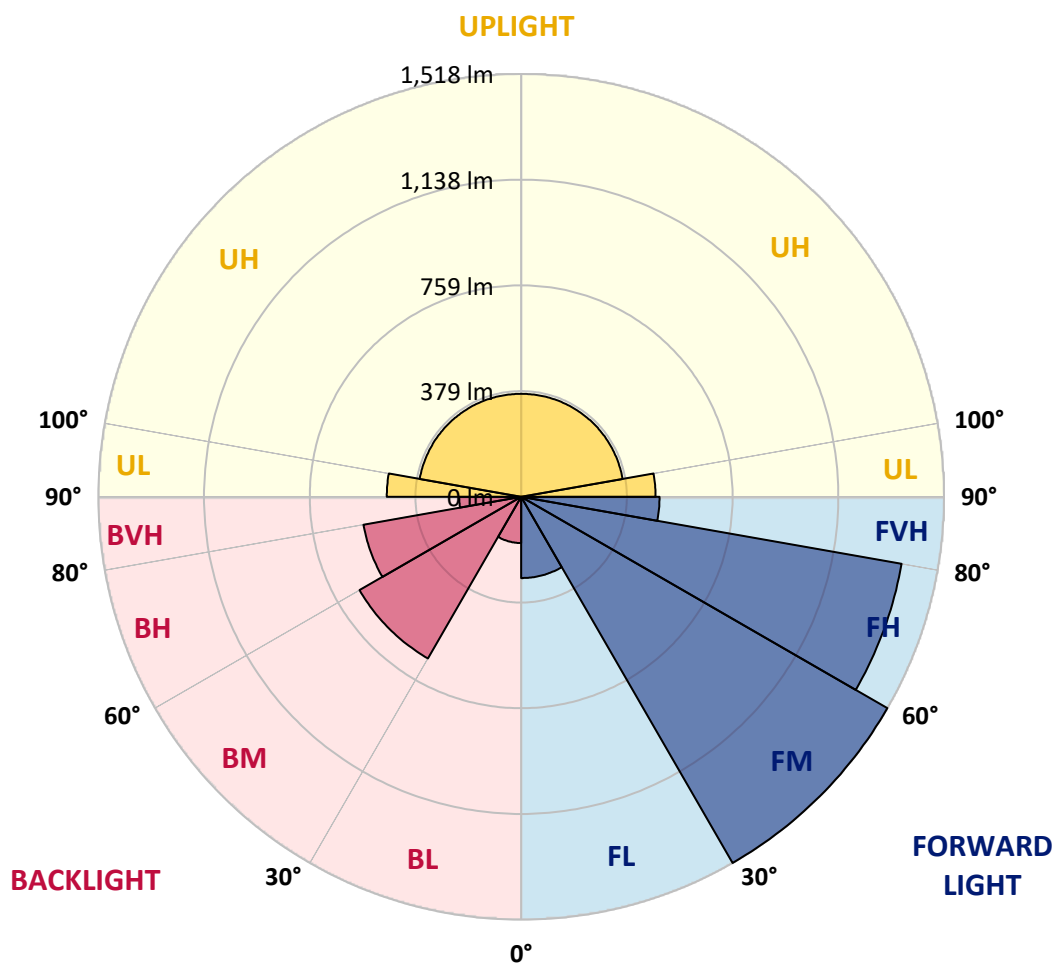
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	291.7	4.6			
FM	(30°-60°)	1518.0	23.8			
FH	(60°-80°)	1386.8	21.7			G1/1800
FVH	(80°-90°)	496.6	7.8			G3/500
BL	(0°-30°)	166.0	2.6	B1/500		
BM	(30°-60°)	670.0	10.5	B1/1000		
BH	(60°-80°)	575.1	9.0	B2/1000		G2/1000
BVH	(80°-90°)	222.7	3.5			G2/225
UL	(90°-100°)	482.5	7.5		U3/500	
UH	(100°-180°)	369.8	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°	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4
2.5°	412.5	412.5	411.7	410.9	408.3	405.0	399.8	396.5	393.2	390.7	385.6
5°	447.7	449.4	446.1	444.4	438.6	431.8	424.3	414.9	410.9	405.0	394.9
7.5°	485.5	487.2	483.8	479.6	472.1	462.1	450.3	438.6	430.9	423.5	408.3
10°	527.6	528.5	524.3	519.2	510.0	497.3	484.7	467.1	458.7	448.7	428.4
12.5°	574.6	572.9	569.5	561.3	550.2	536.7	519.9	502.4	490.7	478.8	453.6
15°	628.4	627.6	621.6	611.6	598.1	583.0	562.9	543.6	531.7	519.2	488.9
17.5°	684.7	683.0	677.1	665.4	651.1	631.8	616.6	594.0	579.6	566.2	531.7
20°	740.9	740.2	735.9	722.4	706.4	691.3	671.3	647.7	633.5	615.0	575.5
22.5°	805.6	803.2	796.3	784.7	771.3	756.1	735.2	705.7	689.7	672.1	625.0
25°	870.4	869.5	861.0	848.4	837.6	820.8	800.6	766.2	750.3	725.8	675.4
27.5°	937.6	935.9	927.5	914.0	905.6	889.6	864.4	830.8	811.4	788.1	731.7
30°	1007.3	1006.5	996.3	982.9	973.7	958.5	932.5	896.4	877.0	851.1	788.1
32.5°	1077.0	1077.0	1066.8	1055.1	1044.2	1025.0	1000.5	966.0	945.0	917.3	846.8
35°	1150.1	1145.9	1138.3	1127.5	1109.8	1090.5	1068.7	1037.5	1015.7	985.4	910.6
37.5°	1219.0	1219.0	1206.3	1197.1	1177.8	1155.9	1135.7	1109.8	1085.4	1056.0	972.9
40°	1287.0	1287.9	1276.1	1264.4	1239.1	1219.0	1201.4	1180.4	1158.5	1128.2	1040.9
42.5°	1352.6	1351.0	1339.9	1326.4	1298.8	1276.1	1265.2	1247.6	1231.5	1199.6	1106.4
45°	1413.0	1408.8	1400.5	1384.5	1352.6	1329.9	1325.7	1317.3	1300.4	1271.9	1172.7
47.5°	1460.0	1457.6	1454.1	1433.2	1400.5	1378.5	1378.5	1382.0	1369.3	1339.9	1234.9
50°	1498.7	1497.8	1496.1	1472.7	1437.4	1420.6	1427.2	1439.1	1430.7	1404.6	1290.3
52.5°	1524.8	1524.0	1526.4	1502.1	1467.7	1452.5	1468.5	1492.1	1485.3	1461.7	1343.3
55°	1534.8	1534.8	1542.4	1519.8	1485.3	1473.5	1499.6	1532.2	1531.5	1510.5	1383.6
57.5°	1530.6	1531.5	1544.9	1524.0	1492.1	1485.3	1519.8	1564.3	1567.6	1546.6	1417.3
60°	1511.3	1512.1	1530.6	1514.7	1487.0	1485.3	1528.9	1583.6	1590.3	1571.9	1436.6
62.5°	1474.4	1477.7	1500.3	1490.3	1467.7	1473.5	1525.6	1589.5	1598.8	1581.0	1444.1
63°	1464.2	1468.5	1492.9	1483.6	1462.6	1469.3	1523.0	1589.5	1599.5	1581.8	1444.1
65°	1423.2	1428.1	1455.9	1451.8	1436.6	1449.1	1508.9	1580.2	1592.9	1576.9	1436.6
67.5°	1356.7	1366.9	1398.8	1402.2	1394.6	1413.9	1479.4	1556.8	1570.1	1555.1	1413.9
70°	1276.9	1288.7	1329.9	1339.9	1338.3	1366.9	1436.6	1517.1	1531.5	1516.3	1375.2
72.5°	1191.2	1207.2	1245.1	1266.9	1277.7	1308.9	1383.6	1463.5	1477.7	1461.7	1324.0
75°	1098.0	1114.7	1161.9	1188.7	1205.5	1244.2	1318.2	1397.9	1410.5	1397.9	1259.3
77.5°	1004.8	1021.6	1069.4	1103.8	1129.9	1176.2	1249.3	1322.3	1331.6	1318.2	1183.6
80°	908.9	928.3	974.5	1014.8	1050.1	1096.3	1166.9	1233.3	1244.2	1226.5	1102.2
82.5°	814.0	830.8	882.9	929.9	967.7	1013.9	1081.2	1143.4	1148.5	1130.7	1012.3
85°	728.3	742.7	793.9	844.2	888.9	934.1	996.3	1045.8	1053.5	1030.7	923.3
87.5°	647.7	658.6	712.4	761.9	807.3	857.7	913.1	952.7	952.7	935.0	830.0
90°	572.9	580.6	629.3	683.8	732.6	777.0	829.1	862.8	858.6	836.7	742.7
92.5°	500.6	510.0	557.8	609.9	659.4	705.7	747.7	770.3	764.5	741.8	658.6
95°	441.1	445.2	492.4	546.1	591.4	633.5	670.3	686.3	677.1	654.4	575.5
97.5°	386.5	389.9	430.9	482.2	531.0	569.5	594.8	604.9	595.7	572.9	507.5
100°	342.0	342.8	379.8	429.3	474.7	508.3	531.0	531.0	522.5	499.8	440.2
102.5°	298.2	299.9	330.1	379.8	422.6	451.9	469.6	467.9	452.8	430.1	382.3
105°	262.9	264.6	288.1	336.1	374.8	401.5	415.8	405.8	391.5	371.3	330.9
107.5°	231.9	232.8	251.2	294.0	330.9	356.2	363.8	352.9	336.9	317.6	289.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	207.5	206.7	221.0	258.0	293.1	314.1	318.4	305.0	289.0	273.1	249.5
112.5°	184.1	184.1	193.2	224.2	257.1	277.2	279.0	259.6	246.1	231.9	216.8
115°	164.7	163.9	170.6	194.9	225.1	242.0	240.2	222.6	210.1	198.3	188.1
117.5°	147.9	146.2	151.3	168.1	195.7	211.7	207.5	187.3	178.1	169.7	163.9
120°	132.7	132.0	134.4	146.2	168.1	180.6	176.3	158.8	150.3	146.2	142.8
122.5°	119.3	119.3	118.4	126.0	142.8	152.9	147.1	132.7	127.6	125.1	125.1
125°	107.5	107.5	105.8	108.3	119.3	127.6	122.7	110.9	107.5	107.5	108.3
127.5°	95.8	95.8	94.1	93.2	98.3	104.2	98.3	91.5	90.6	91.5	93.2
130°	84.9	84.0	82.4	79.1	79.8	82.4	78.2	74.7	75.5	78.2	79.8
132.5°	74.7	73.9	71.4	66.4	63.1	63.1	59.6	59.6	62.2	64.7	68.0
135°	64.7	63.9	61.4	55.4	49.5	46.3	43.7	47.0	50.5	52.9	56.2
137.5°	54.5	53.8	50.5	44.6	37.0	31.9	31.1	36.1	39.4	42.8	45.4
140°	44.6	43.7	40.3	34.5	26.1	20.1	20.1	26.9	30.3	32.8	36.1
142.5°	35.3	34.5	31.9	25.2	16.8	12.5	13.5	19.4	21.9	24.3	26.9
145°	26.1	26.1	23.5	17.6	10.2	5.8	7.5	12.5	15.1	16.8	19.4
147.5°	17.6	17.6	15.1	10.9	5.8	2.5	3.4	7.5	9.3	10.9	12.5
150°	10.9	10.9	9.3	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	0.9	0.0	0.0	1.6	1.6	2.5	3.4
155°	2.5	1.6	1.6	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9
157.5°	0.9	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°	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4
2.5°	383.0	380.5	374.8	370.6	365.4	361.3	358.8	354.6	352.0	352.9	352.0
5°	389.9	384.7	373.9	364.6	354.6	346.0	339.4	333.5	330.1	327.6	328.5
7.5°	400.7	393.2	377.2	362.0	346.9	334.3	324.3	316.7	309.9	308.3	307.5
10°	417.5	407.4	384.7	364.6	345.3	327.6	314.1	303.3	296.5	293.1	293.1
12.5°	441.1	426.8	398.2	371.3	346.9	325.0	308.3	294.9	287.3	284.0	283.1
15°	473.9	456.2	420.9	384.7	353.8	327.6	307.5	294.0	288.1	286.5	285.7
17.5°	511.7	492.4	448.7	406.7	367.0	334.3	315.0	304.2	297.3	294.0	293.1
20°	554.4	529.2	479.6	430.9	386.5	352.0	330.1	315.0	306.6	302.4	301.7
22.5°	598.1	570.5	513.3	457.0	408.3	376.4	345.3	326.9	315.0	309.9	308.3
25°	645.3	614.1	547.7	484.7	435.1	399.0	363.8	336.9	323.4	317.6	317.6
27.5°	695.6	659.4	583.9	513.3	462.8	420.0	381.4	347.9	331.8	325.0	324.3
30°	748.5	708.3	620.8	544.5	488.9	439.5	396.5	359.5	340.3	332.7	331.8
32.5°	805.6	759.4	662.1	578.0	513.3	457.0	409.9	370.6	347.9	338.5	337.8
35°	862.0	809.8	700.7	610.8	535.1	472.1	420.9	381.4	353.8	344.4	343.6
37.5°	924.0	863.6	741.8	642.6	555.3	483.8	430.1	389.9	359.5	349.5	347.9
40°	983.7	916.5	780.4	671.3	572.1	494.8	437.7	397.4	364.6	353.8	352.0
42.5°	1042.6	970.3	819.1	698.2	586.4	501.6	442.8	402.4	369.7	357.0	354.6
45°	1101.3	1020.7	858.6	719.9	597.4	507.5	446.1	406.7	373.9	358.8	357.0
47.5°	1155.9	1070.3	894.7	739.2	604.9	510.0	447.7	408.3	377.2	359.5	357.0
50°	1208.0	1113.1	925.0	753.6	609.9	510.0	447.7	409.1	378.8	359.5	357.9
52.5°	1253.5	1150.1	949.2	762.8	610.8	507.5	445.2	408.3	378.8	357.9	355.4
55°	1287.9	1180.4	966.9	767.1	608.2	503.2	441.1	405.8	378.0	355.4	352.9
57.5°	1315.6	1201.4	977.8	766.2	602.4	496.6	435.9	402.4	375.5	351.1	348.6
60°	1332.4	1212.3	979.5	760.2	594.0	488.0	429.3	397.4	372.2	346.9	343.6
62.5°	1334.9	1211.5	973.7	748.5	581.4	478.0	420.9	390.7	366.2	340.3	336.9
63°	1334.1	1210.6	970.3	746.0	578.8	476.3	420.0	389.9	365.4	338.5	336.1
65°	1324.8	1200.5	957.8	732.6	567.1	466.2	412.5	383.0	360.4	333.5	329.3
67.5°	1300.4	1177.8	934.1	709.9	549.5	452.8	401.5	374.8	352.0	325.0	321.0
70°	1263.5	1145.9	902.3	684.7	531.0	438.6	389.9	363.8	342.8	315.8	310.9
72.5°	1213.9	1099.6	865.2	655.3	509.1	422.6	376.4	352.0	330.9	305.9	298.2
75°	1154.3	1045.8	824.1	623.3	485.5	405.8	362.9	340.3	319.3	294.0	286.5
77.5°	1082.8	984.6	772.9	589.7	462.8	388.1	347.9	325.9	305.9	280.6	273.1
80°	1006.5	916.5	721.7	552.0	437.7	369.7	332.7	310.9	290.7	267.2	258.0
82.5°	925.8	843.5	667.0	515.7	412.5	350.2	316.7	294.9	275.5	252.9	244.5
85°	844.2	770.3	614.1	479.6	386.5	331.8	299.9	279.7	258.7	237.0	228.4
87.5°	763.6	698.9	562.9	441.8	362.0	313.4	283.1	262.9	242.0	221.0	214.2
90°	686.3	630.2	509.1	406.7	336.9	293.1	266.3	246.1	226.0	205.1	198.3
92.5°	609.1	560.4	460.4	374.8	313.4	274.7	249.5	229.3	208.3	188.1	184.1
95°	540.2	498.2	414.2	340.3	290.7	257.1	232.8	213.3	191.6	172.2	169.7
97.5°	475.6	439.5	368.8	310.9	268.0	237.7	216.0	195.7	173.9	156.2	154.6
100°	417.5	388.1	330.1	280.6	245.2	220.2	200.0	179.8	157.9	142.8	141.2
102.5°	364.6	341.0	294.0	253.7	225.1	202.5	182.3	163.0	142.0	128.5	128.5
105°	319.3	298.2	260.4	228.4	204.2	184.1	165.5	146.2	125.1	114.3	114.3
107.5°	276.4	262.1	231.0	204.2	184.8	167.2	149.6	130.3	110.0	101.7	102.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	241.1	229.3	203.2	183.2	167.2	151.3	134.4	115.2	95.8	89.9	90.6
112.5°	210.1	200.9	178.9	163.0	149.6	136.2	119.3	100.0	83.2	79.8	80.7
115°	183.2	175.6	158.8	144.4	133.6	121.0	105.8	86.5	72.3	70.5	70.5
117.5°	159.5	153.7	139.4	128.5	118.4	107.5	92.4	74.7	62.2	62.2	62.2
120°	140.2	135.3	123.4	113.5	105.0	94.1	79.8	63.1	53.8	54.5	54.5
122.5°	121.8	118.4	107.5	100.0	91.5	82.4	68.0	52.1	46.3	47.9	48.7
125°	106.7	103.3	95.0	86.5	79.1	69.7	56.2	43.7	40.3	42.0	42.0
127.5°	91.5	89.9	82.4	74.7	68.0	58.7	46.3	36.1	35.3	37.0	37.0
130°	79.1	77.3	71.4	63.1	56.2	47.9	37.0	29.5	29.5	31.1	31.1
132.5°	67.3	66.4	60.5	52.9	46.3	37.8	29.5	23.5	25.2	26.9	26.9
135°	55.4	55.4	50.5	42.8	36.1	28.6	21.9	19.4	21.0	22.6	22.6
137.5°	45.4	44.6	40.3	33.5	26.9	21.0	16.0	15.1	17.6	19.4	19.4
140°	36.1	35.3	31.9	26.1	19.4	14.4	10.9	11.8	14.4	15.1	16.0
142.5°	26.9	26.9	23.5	19.4	12.5	8.4	6.6	9.3	10.9	11.8	12.5
145°	19.4	19.4	16.8	12.5	7.5	4.2	4.2	6.6	8.4	9.3	9.3
147.5°	12.5	12.5	10.9	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	0.9	1.6	3.4	4.2	3.4
152.5°	3.4	3.4	2.5	1.6	0.9	0.0	0.0	0.0	0.9	1.6	1.6
155°	0.9	0.9	0.9	0.9	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)