

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: P240152

Luminaire Tested: **UTLD-AF24-90-D-U-T3-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240152
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-AF24-90-D-U-T3-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1180mA 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: 7100.8 lumens
Efficiency: N/A
Efficacy: 75.5 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 - G4

Input Watts (W): 94
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



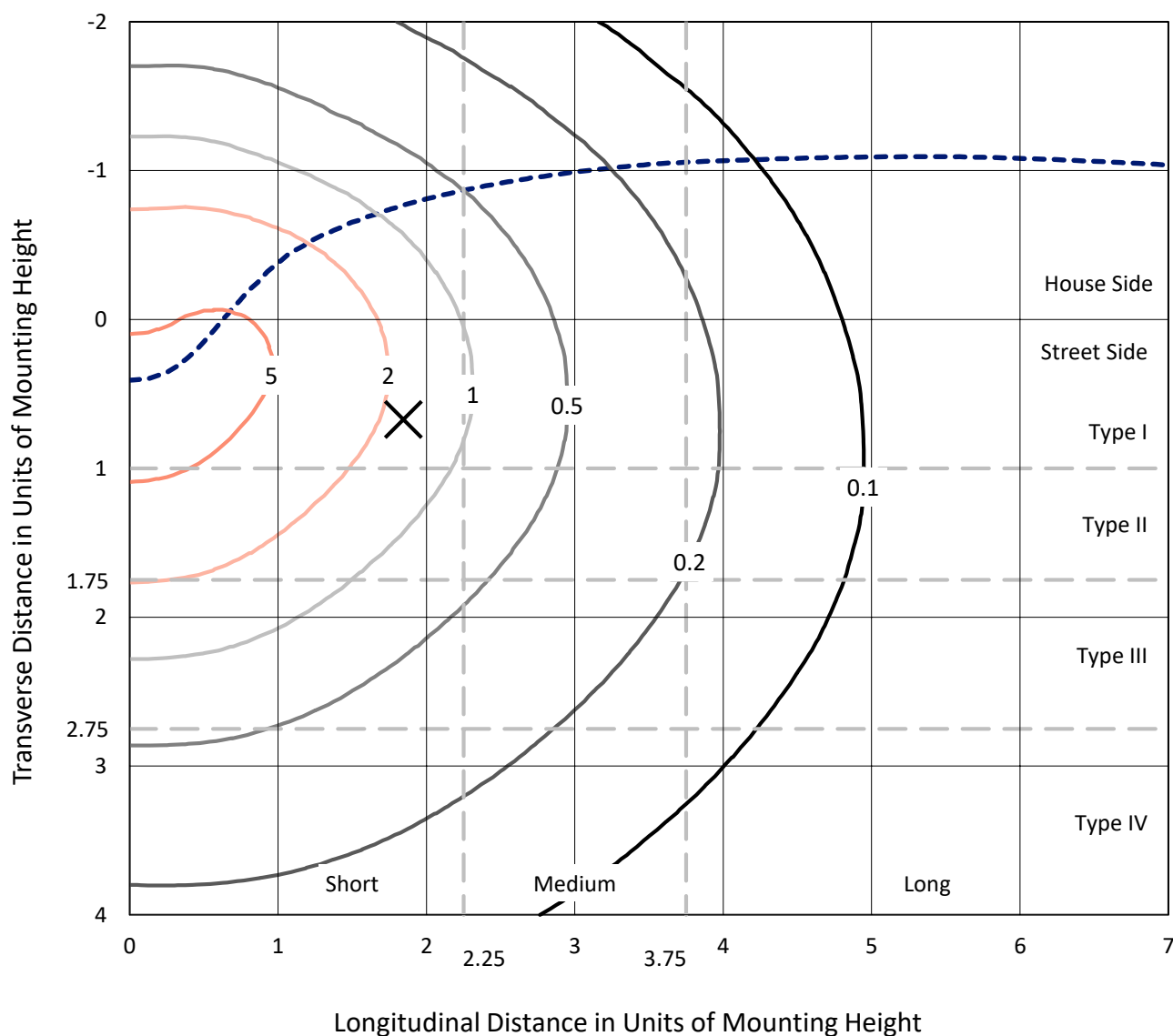
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

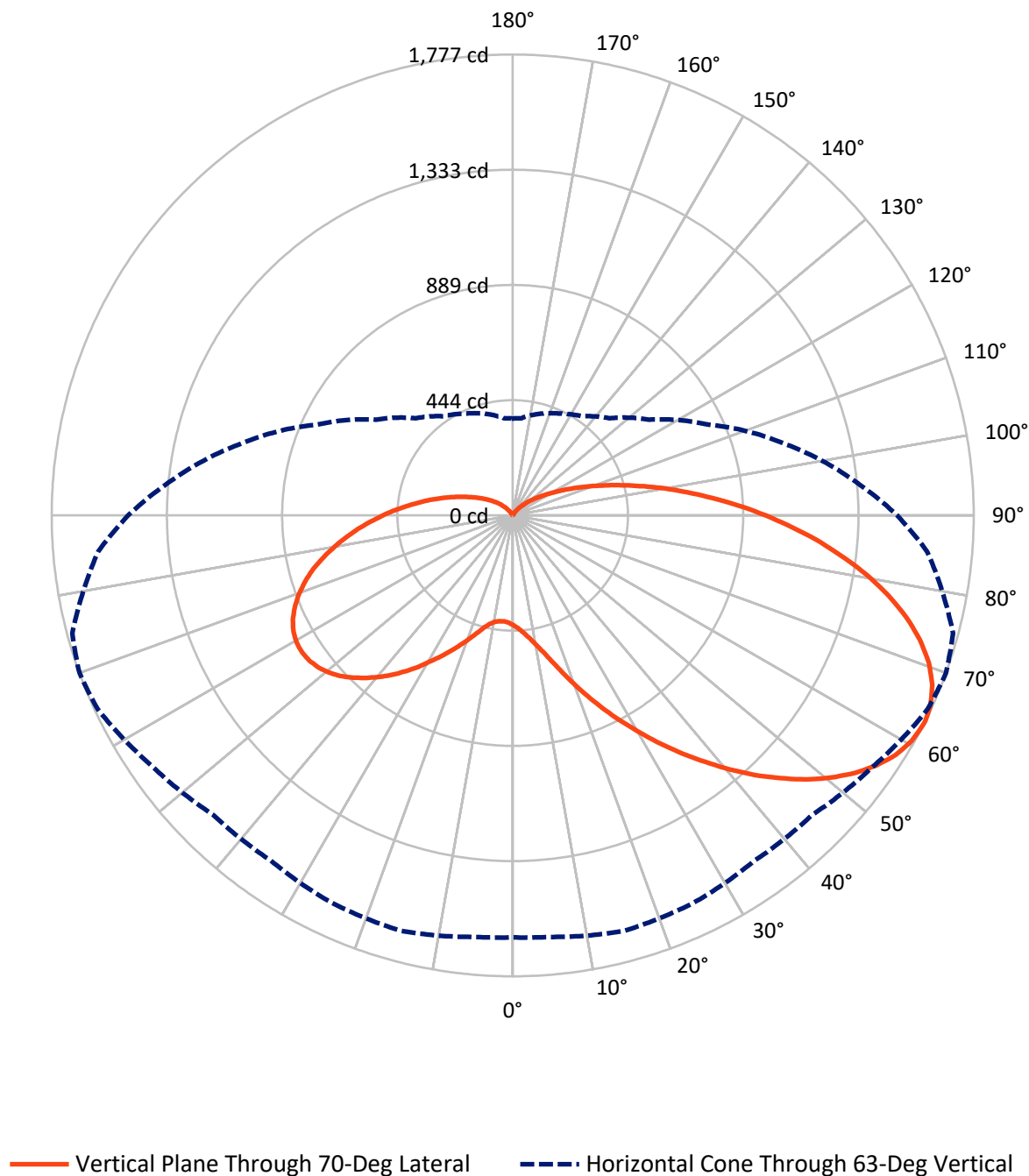


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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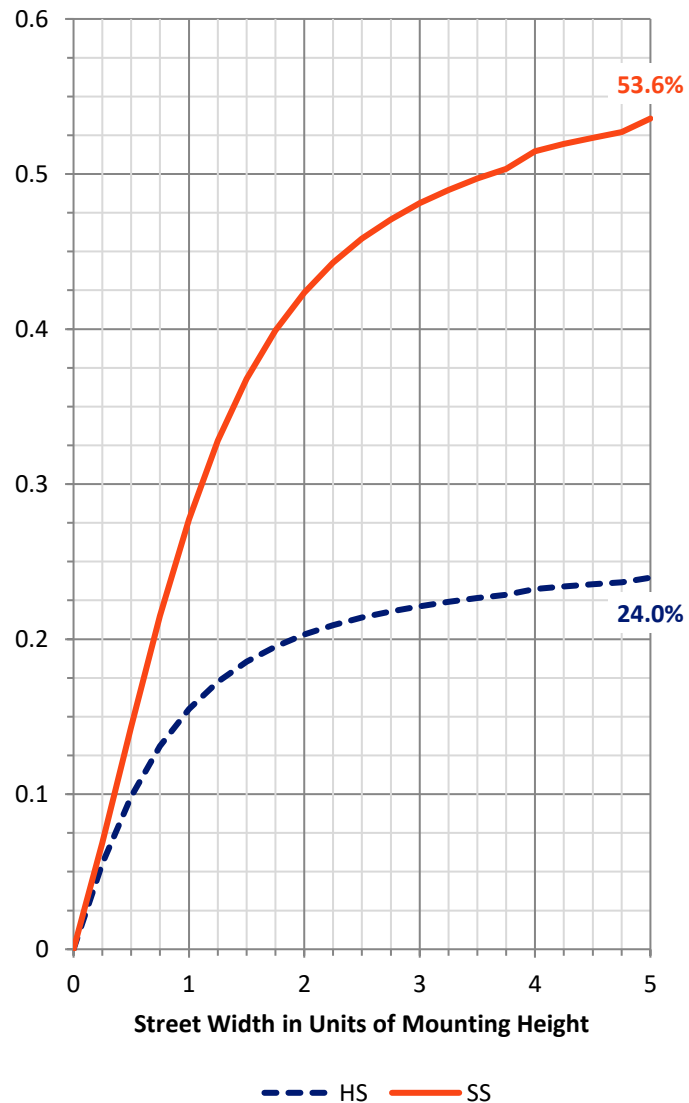
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1815.0	410.8	2225.9
	% Fixture	25.6	5.8	31.3
Street Side	Lumens	4103.0	771.9	4874.9
	% Fixture	57.8	10.9	68.7
Total	Lumens	5918.0	1182.8	7100.8
	% Fixture	83.3	16.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.1	0.6
10°-20°	148.1	2.1
20°-30°	318.2	4.5
30°-40°	554.6	7.8
40°-50°	824.0	11.6
50°-60°	1052.2	14.8
60°-70°	1140.8	16.1
70°-80°	1038.8	14.6
80°-90°	799.1	11.3
90°-100°	536.0	7.5
100°-110°	324.9	4.6
110°-120°	181.3	2.6
120°-130°	92.0	1.3
130°-140°	38.1	0.5
140°-150°	9.7	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5918.0	83.3
0°-180°	7100.8	100.0

Coefficient of Utilization



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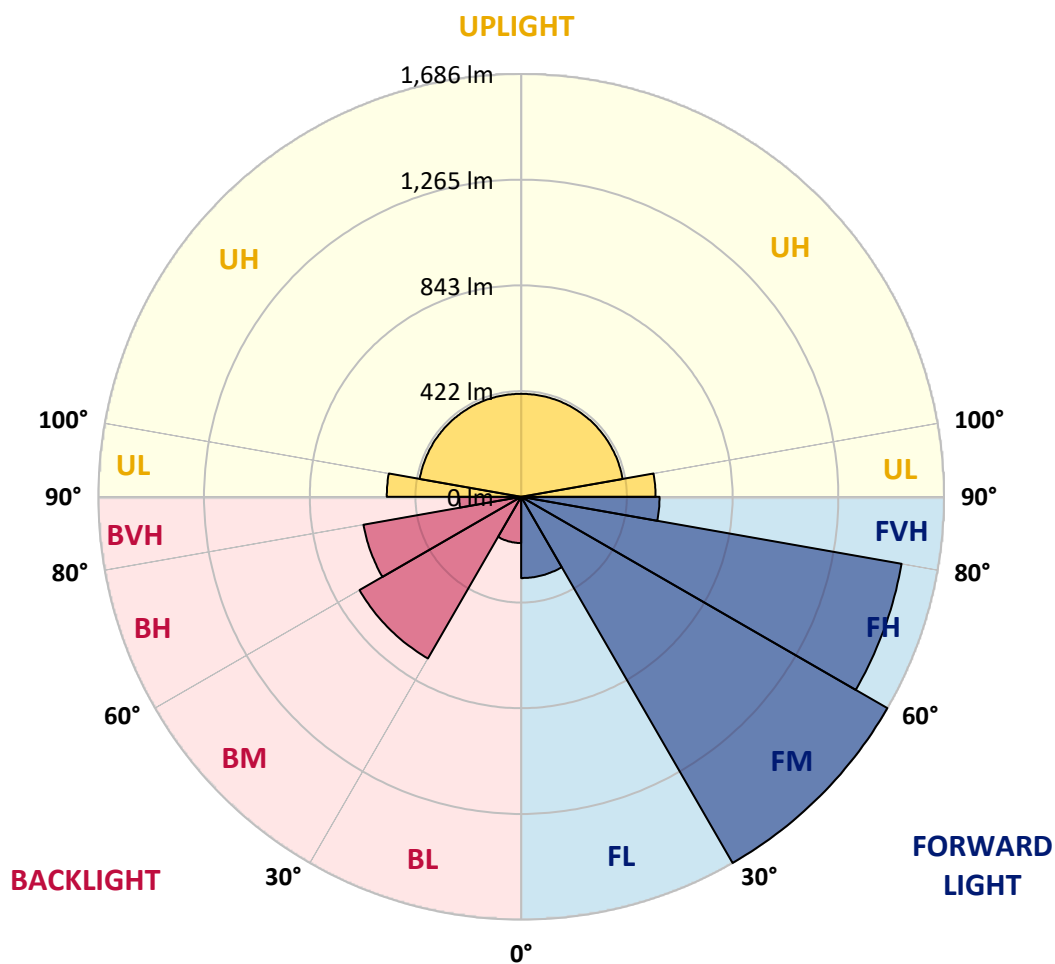
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	324.1	4.6			
FM	(30°-60°)	1686.5	23.8			
FH	(60°-80°)	1540.6	21.7			G1/1800
FVH	(80°-90°)	551.8	7.8			G4/750
BL	(0°-30°)	184.4	2.6	B1/500		
BM	(30°-60°)	744.3	10.5	B1/1000		
BH	(60°-80°)	638.9	9.0	B2/1000		G2/1000
BVH	(80°-90°)	247.4	3.5			G3/500
UL	(90°-100°)	536.0	7.5		U4/1000	
UH	(100°-180°)	410.8	5.8		U3/500	

BUG Rating: B2-U4-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	423.7	423.7	423.7	423.7	423.7	423.7	423.7	423.7	423.7	423.7	423.7
2.5°	458.3	458.3	457.4	456.3	453.7	449.8	444.2	440.6	436.8	434.0	428.4
5°	497.4	499.4	495.6	493.8	487.2	479.7	471.4	461.1	456.3	449.8	438.6
7.5°	539.4	541.4	537.5	532.9	524.6	513.3	500.3	487.2	478.8	470.4	453.7
10°	586.1	587.0	582.4	576.8	566.5	552.6	538.5	519.0	509.5	498.4	476.1
12.5°	638.4	636.6	632.8	623.5	611.3	596.4	577.8	558.1	545.1	532.0	504.0
15°	698.1	697.2	690.6	679.5	664.6	647.7	625.3	603.8	590.8	576.8	543.2
17.5°	760.7	758.8	752.2	739.2	723.3	701.9	685.0	659.8	644.0	629.2	590.8
20°	823.2	822.2	817.6	802.6	784.9	768.1	745.7	719.6	703.7	683.2	639.3
22.5°	895.1	892.2	884.8	871.8	856.8	839.9	816.7	784.1	766.2	746.7	694.5
25°	967.0	966.0	956.7	942.7	930.6	911.9	889.5	851.2	833.4	806.5	750.4
27.5°	1041.6	1039.7	1030.5	1015.4	1006.2	988.4	960.4	923.0	901.6	875.5	812.9
30°	1119.1	1118.2	1106.9	1092.0	1081.7	1065.0	1036.0	995.9	974.4	945.4	875.5
32.5°	1196.5	1196.5	1185.4	1172.3	1160.2	1138.7	1111.6	1073.4	1050.0	1019.2	940.8
35°	1277.7	1273.1	1264.6	1252.5	1232.9	1211.4	1187.2	1152.6	1128.4	1094.8	1011.7
37.5°	1354.3	1354.3	1340.3	1330.0	1308.5	1284.3	1261.8	1232.9	1205.9	1173.2	1080.8
40°	1429.8	1430.8	1417.7	1404.6	1376.6	1354.3	1334.7	1311.3	1287.1	1253.4	1156.4
42.5°	1502.7	1500.7	1488.6	1473.7	1442.9	1417.7	1405.6	1386.0	1368.3	1332.8	1229.1
45°	1569.8	1565.2	1555.9	1538.2	1502.7	1477.5	1472.9	1463.4	1444.9	1413.0	1302.9
47.5°	1622.2	1619.3	1615.6	1592.2	1555.9	1531.6	1531.6	1535.3	1521.3	1488.6	1372.0
50°	1665.1	1664.1	1662.3	1636.1	1597.0	1578.2	1585.7	1598.8	1589.5	1560.5	1433.6
52.5°	1693.9	1693.1	1695.8	1668.8	1630.4	1613.8	1631.5	1657.6	1650.2	1624.0	1492.4
55°	1705.2	1705.2	1713.6	1688.4	1650.2	1637.0	1665.9	1702.4	1701.5	1678.1	1537.2
57.5°	1700.5	1701.5	1716.4	1693.1	1657.6	1650.2	1688.4	1737.9	1741.6	1718.2	1574.5
60°	1679.1	1680.0	1700.5	1682.8	1652.0	1650.2	1698.7	1759.3	1766.8	1746.3	1596.0
62.5°	1638.1	1641.7	1667.0	1655.8	1630.4	1637.0	1694.9	1765.8	1776.1	1756.6	1604.4
63°	1626.8	1631.5	1658.5	1648.2	1624.9	1632.5	1692.1	1765.8	1777.1	1757.4	1604.4
65°	1581.1	1586.7	1617.5	1612.7	1596.0	1610.1	1676.2	1755.6	1769.6	1751.9	1596.0
67.5°	1507.3	1518.4	1554.0	1557.7	1549.3	1570.8	1643.6	1729.5	1744.5	1727.6	1570.8
70°	1418.6	1431.8	1477.5	1488.6	1486.8	1518.4	1596.0	1685.6	1701.5	1684.7	1527.9
72.5°	1323.4	1341.1	1383.2	1407.5	1419.6	1454.1	1537.2	1625.9	1641.7	1624.0	1470.9
75°	1219.9	1238.6	1290.8	1320.6	1339.3	1382.2	1464.4	1553.0	1567.1	1553.0	1399.1
77.5°	1116.3	1134.8	1188.0	1226.4	1255.3	1306.6	1387.8	1469.1	1479.4	1464.4	1315.1
80°	1009.9	1031.3	1082.6	1127.4	1166.7	1218.0	1296.4	1370.1	1382.2	1362.7	1224.6
82.5°	904.4	923.0	980.9	1033.1	1075.2	1126.6	1201.2	1270.2	1275.8	1256.3	1124.8
85°	809.2	825.0	882.0	938.0	987.4	1037.9	1106.9	1162.0	1170.3	1145.1	1025.7
87.5°	719.6	731.7	791.5	846.5	896.9	953.0	1014.6	1058.4	1058.4	1038.8	922.1
90°	636.6	644.9	699.0	759.7	813.9	863.3	921.2	958.5	953.9	929.6	825.0
92.5°	556.2	566.5	619.7	677.6	732.7	784.1	830.7	855.8	849.4	824.2	731.7
95°	490.0	494.6	547.0	606.7	657.0	703.7	744.8	762.5	752.2	727.0	639.3
97.5°	429.3	433.1	478.8	535.7	589.9	632.8	660.8	672.0	661.8	636.6	563.8
100°	379.9	380.8	421.8	476.9	527.2	564.7	589.9	589.9	580.5	555.4	489.1
102.5°	331.4	333.2	366.8	421.8	469.5	502.1	521.7	519.8	503.0	477.9	424.7
105°	292.2	294.0	320.1	373.3	416.3	446.1	461.9	450.8	435.0	412.6	367.7
107.5°	257.7	258.5	279.0	326.6	367.7	395.7	404.2	392.0	374.2	352.8	321.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	230.5	229.6	245.5	286.5	325.7	349.1	353.8	338.8	321.1	303.3	277.2
112.5°	204.5	204.5	214.7	249.2	285.6	308.0	309.9	288.5	273.4	257.7	240.8
115°	182.9	182.0	189.4	216.6	250.1	268.8	266.9	247.4	233.4	220.2	209.0
117.5°	164.2	162.4	168.0	186.7	217.4	235.2	230.5	208.1	197.9	188.6	182.0
120°	147.5	146.5	149.3	162.4	186.7	200.7	196.0	176.5	167.0	162.4	158.7
122.5°	132.5	132.5	131.5	140.0	158.7	169.9	163.4	147.5	141.8	139.1	139.1
125°	119.4	119.4	117.6	120.4	132.5	141.8	136.2	123.3	119.4	119.4	120.4
127.5°	106.4	106.4	104.6	103.6	109.2	115.7	109.2	101.7	100.8	101.7	103.6
130°	94.3	93.3	91.4	87.7	88.7	91.4	86.8	83.0	84.0	86.8	88.7
132.5°	83.0	82.2	79.3	73.8	70.0	70.0	66.3	66.3	69.1	71.9	75.6
135°	71.9	70.9	68.2	61.6	55.0	51.4	48.5	52.2	56.0	58.8	62.5
137.5°	60.6	59.8	56.0	49.5	41.1	35.5	34.5	40.1	43.8	47.6	50.4
140°	49.5	48.5	44.8	38.2	29.0	22.4	22.4	29.8	33.7	36.4	40.1
142.5°	39.3	38.2	35.5	28.0	18.7	13.9	15.0	21.5	24.2	27.1	29.8
145°	29.0	29.0	26.1	19.5	11.3	6.5	8.4	13.9	16.8	18.7	21.5
147.5°	19.5	19.5	16.8	12.1	6.5	2.8	3.8	8.4	10.3	12.1	13.9
150°	12.1	12.1	10.3	6.5	2.8	0.0	1.8	3.8	5.6	6.5	8.4
152.5°	6.5	6.5	4.7	2.8	1.0	0.0	0.0	1.8	1.8	2.8	3.8
155°	2.8	1.8	1.8	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
157.5°	1.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	423.7	423.7	423.7	423.7	423.7	423.7	423.7	423.7	423.7	423.7	423.7
2.5°	425.6	422.9	416.3	411.6	406.0	401.3	398.6	393.9	391.0	392.0	391.0
5°	433.1	427.4	415.3	405.1	393.9	384.5	377.1	370.5	366.8	364.1	364.9
7.5°	445.2	436.8	419.1	402.3	385.4	371.5	360.2	351.9	344.3	342.5	341.6
10°	464.0	452.7	427.4	405.1	383.6	364.1	349.1	336.9	329.4	325.7	325.7
12.5°	490.0	474.1	442.4	412.6	385.4	361.2	342.5	327.6	319.1	315.4	314.5
15°	526.4	506.8	467.6	427.4	392.9	364.1	341.6	326.6	320.1	318.3	317.3
17.5°	568.3	547.0	498.4	451.7	407.9	371.5	349.9	337.8	330.4	326.6	325.7
20°	616.0	588.1	532.9	478.8	429.3	391.0	366.8	349.9	340.7	336.0	335.1
22.5°	664.6	633.7	570.3	507.7	453.7	418.1	383.6	363.1	349.9	344.3	342.5
25°	716.8	682.3	608.6	538.5	483.5	443.4	404.2	374.2	359.4	352.8	352.8
27.5°	772.8	732.7	648.7	570.3	514.3	466.6	423.7	386.4	368.6	361.2	360.2
30°	831.6	786.7	689.8	604.8	543.2	488.2	440.6	399.5	378.0	369.7	368.6
32.5°	895.1	843.7	735.5	642.1	570.3	507.7	455.5	411.6	386.4	376.2	375.2
35°	957.5	899.7	778.4	678.5	594.5	524.6	467.6	423.7	392.9	382.6	381.8
37.5°	1026.7	959.6	824.2	714.0	616.9	537.5	477.9	433.1	399.5	388.3	386.4
40°	1092.9	1018.3	867.1	745.7	635.6	549.7	486.3	441.5	405.1	392.9	391.0
42.5°	1158.2	1078.0	910.0	775.6	651.5	557.2	491.8	447.1	410.7	396.6	393.9
45°	1223.6	1134.0	953.9	799.9	663.6	563.8	495.6	451.7	415.3	398.6	396.6
47.5°	1284.3	1189.1	994.0	821.3	672.0	566.5	497.4	453.7	419.1	399.5	396.6
50°	1342.1	1236.7	1027.6	837.2	677.6	566.5	497.4	454.5	420.9	399.5	397.6
52.5°	1392.5	1277.7	1054.7	847.5	678.5	563.8	494.6	453.7	420.9	397.6	394.8
55°	1430.8	1311.3	1074.2	852.1	675.8	559.1	490.0	450.8	420.0	394.8	392.0
57.5°	1461.6	1334.7	1086.4	851.2	669.2	551.6	484.3	447.1	417.2	390.2	387.4
60°	1480.3	1346.8	1088.2	844.7	659.8	542.3	476.9	441.5	413.4	385.4	381.8
62.5°	1483.0	1345.8	1081.7	831.6	645.8	531.1	467.6	434.0	406.9	378.0	374.2
63°	1482.1	1345.0	1078.0	828.8	643.1	529.3	466.6	433.1	406.0	376.2	373.3
65°	1471.8	1333.7	1063.9	813.9	630.0	518.0	458.3	425.6	400.4	370.5	365.9
67.5°	1444.9	1308.5	1037.9	788.7	610.4	503.0	446.1	416.3	391.0	361.2	356.5
70°	1403.8	1273.1	1002.4	760.7	589.9	487.2	433.1	404.2	380.8	350.9	345.4
72.5°	1348.7	1221.7	961.4	728.0	565.6	469.5	418.1	391.0	367.7	339.7	331.4
75°	1282.3	1162.0	915.6	692.4	539.4	450.8	403.1	378.0	354.6	326.6	318.3
77.5°	1203.1	1093.9	858.7	655.2	514.3	431.2	386.4	362.0	339.7	311.7	303.3
80°	1118.2	1018.3	801.8	613.2	486.3	410.7	369.7	345.4	323.0	296.7	286.5
82.5°	1028.5	937.1	741.1	573.1	458.3	389.2	351.9	327.6	306.2	280.9	271.6
85°	938.0	855.8	682.3	532.9	429.3	368.6	333.2	310.9	287.5	263.2	253.9
87.5°	848.4	776.5	625.3	490.9	402.3	348.1	314.5	292.2	268.8	245.5	237.9
90°	762.5	700.1	565.6	451.7	374.2	325.7	295.9	273.4	251.1	227.7	220.2
92.5°	676.7	622.6	511.5	416.3	348.1	305.2	277.2	254.8	231.5	209.0	204.5
95°	600.2	553.5	460.1	378.0	323.0	285.6	258.5	237.1	212.8	191.3	188.6
97.5°	528.3	488.2	409.7	345.4	297.7	264.1	239.9	217.4	193.2	173.6	171.7
100°	464.0	431.2	366.8	311.7	272.5	244.5	222.2	199.7	175.5	158.7	156.8
102.5°	405.1	378.9	326.6	281.9	250.1	225.0	202.5	181.1	157.8	142.8	142.8
105°	354.6	331.4	289.3	253.9	226.8	204.5	183.9	162.4	139.1	127.0	127.0
107.5°	307.0	291.1	256.6	226.8	205.3	185.7	166.2	144.7	122.3	113.0	113.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	267.9	254.8	225.8	203.4	185.7	168.0	149.3	127.9	106.4	99.9	100.8
112.5°	233.4	223.1	198.9	181.1	166.2	151.3	132.5	111.1	92.5	88.7	89.6
115°	203.4	195.0	176.5	160.5	148.4	134.4	117.6	96.1	80.3	78.4	78.4
117.5°	177.3	170.8	154.9	142.8	131.5	119.4	102.7	83.0	69.1	69.1	69.1
120°	155.9	150.2	137.2	125.9	116.7	104.6	88.7	70.0	59.8	60.6	60.6
122.5°	135.4	131.5	119.4	111.1	101.7	91.4	75.6	57.9	51.4	53.2	54.1
125°	118.5	114.8	105.4	96.1	87.7	77.5	62.5	48.5	44.8	46.7	46.7
127.5°	101.7	99.9	91.4	83.0	75.6	65.3	51.4	40.1	39.3	41.1	41.1
130°	87.7	85.9	79.3	70.0	62.5	53.2	41.1	32.7	32.7	34.5	34.5
132.5°	74.7	73.8	67.2	58.8	51.4	41.9	32.7	26.1	28.0	29.8	29.8
135°	61.6	61.6	56.0	47.6	40.1	31.6	24.2	21.5	23.4	25.2	25.2
137.5°	50.4	49.5	44.8	37.3	29.8	23.4	17.7	16.8	19.5	21.5	21.5
140°	40.1	39.3	35.5	29.0	21.5	15.9	12.1	13.1	15.9	16.8	17.7
142.5°	29.8	29.8	26.1	21.5	13.9	9.3	7.4	10.3	12.1	13.1	13.9
145°	21.5	21.5	18.7	13.9	8.4	4.7	4.7	7.4	9.3	10.3	10.3
147.5°	13.9	13.9	12.1	8.4	4.7	1.8	2.8	4.7	6.5	7.4	7.4
150°	8.4	7.4	6.5	3.8	1.8	0.0	1.0	1.8	3.8	4.7	3.8
152.5°	3.8	3.8	2.8	1.8	1.0	0.0	0.0	0.0	1.0	1.8	1.8
155°	1.0	1.0	1.0	1.0	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)