

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: P240269

Luminaire Tested: **UTLD-AF24-90-D-U-SL3-FP**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240269
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-AF24-90-D-U-SL3-FP
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1180mA 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: 7247.6 lumens
Efficiency: N/A
Efficacy: 77.1 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



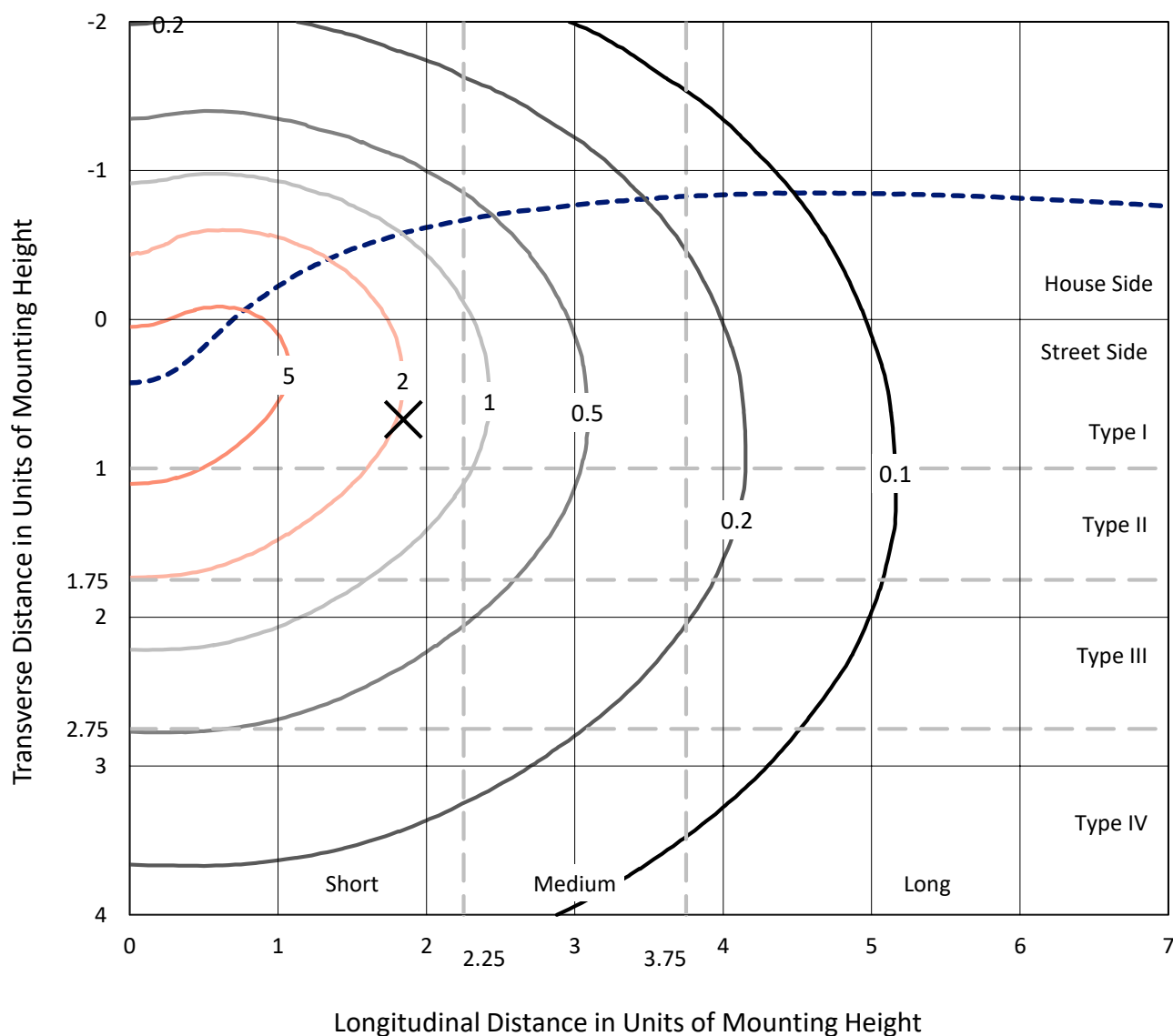
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

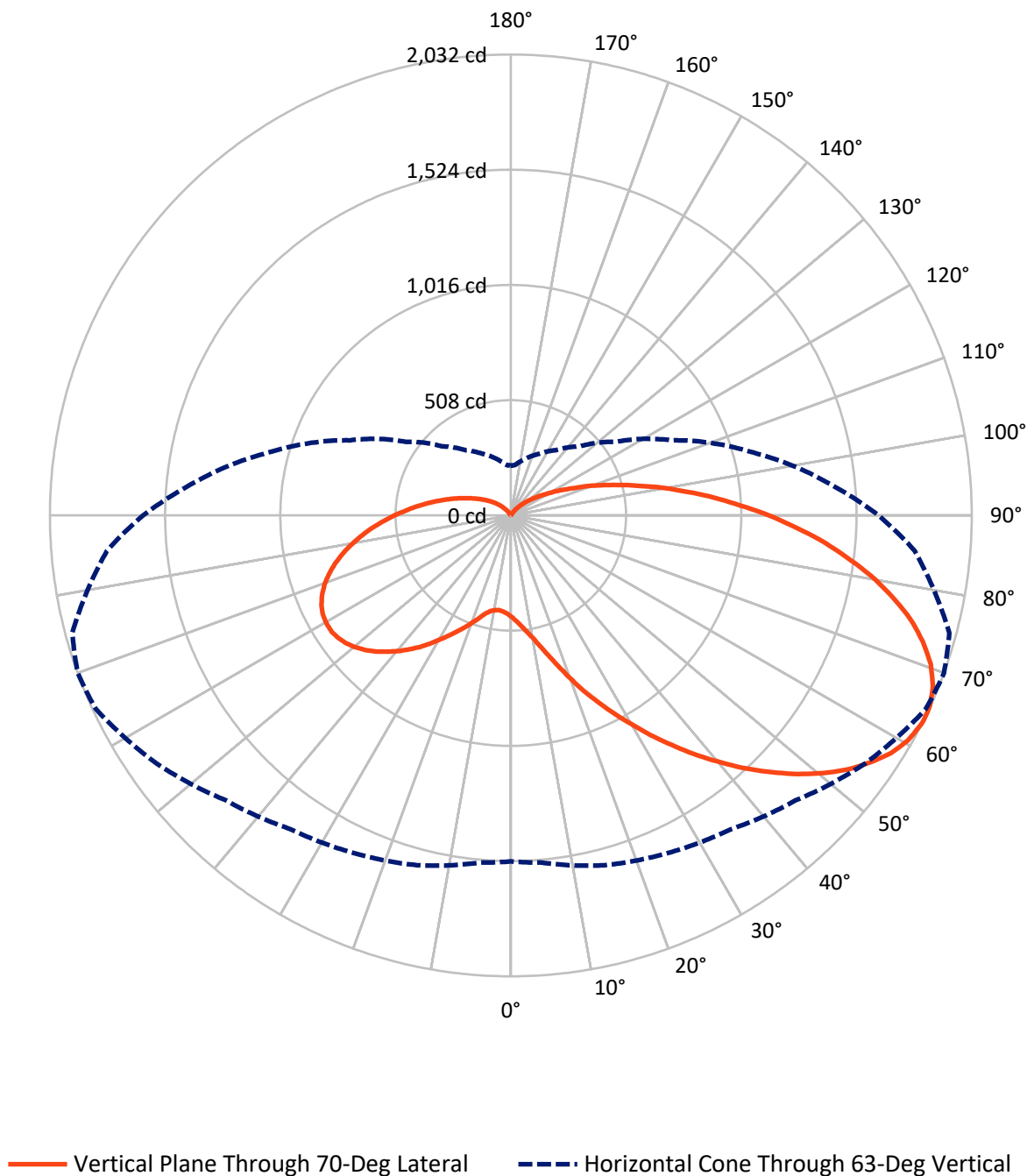


Based on 10 foot mounting height. Maximum calculated value = 8 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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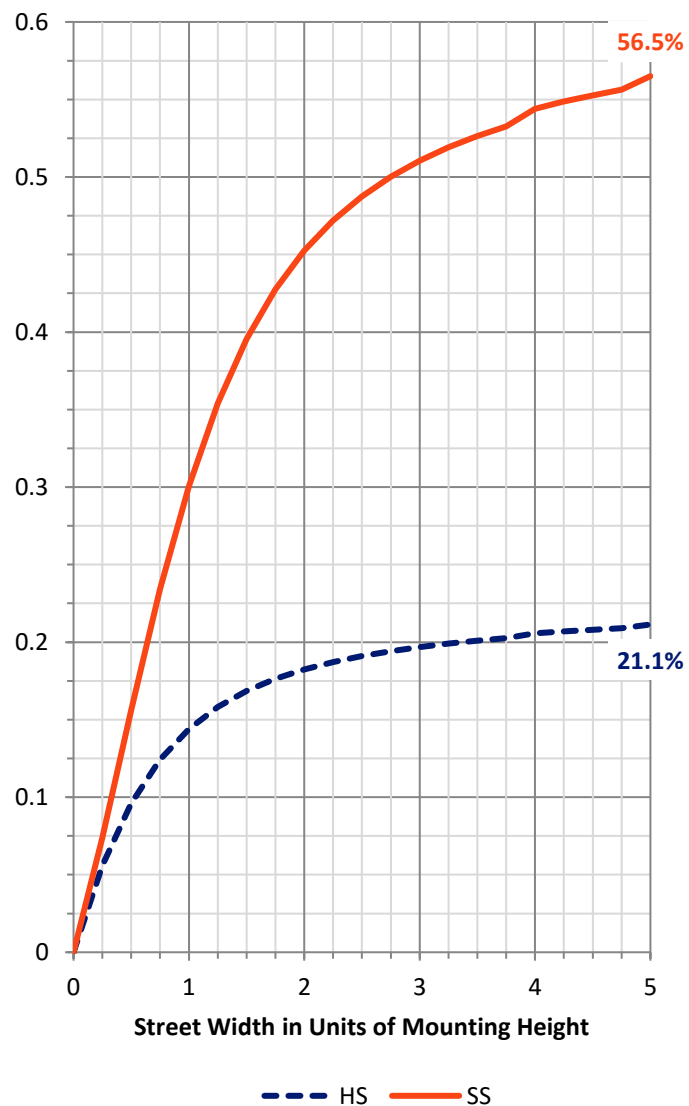
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1627.8	393.9	2021.7
	% Fixture	22.5	5.4	27.9
Street Side	Lumens	4400.1	825.8	5225.9
	% Fixture	60.7	11.4	72.1
Total	Lumens	6027.9	1219.7	7247.6
	% Fixture	83.2	16.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.4	0.6
10°-20°	154.8	2.1
20°-30°	328.9	4.5
30°-40°	567.2	7.8
40°-50°	836.7	11.5
50°-60°	1065.0	14.7
60°-70°	1156.0	15.9
70°-80°	1057.1	14.6
80°-90°	817.8	11.3
90°-100°	551.1	7.6
100°-110°	335.3	4.6
110°-120°	187.8	2.6
120°-130°	95.6	1.3
130°-140°	39.5	0.5
140°-150°	9.8	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6027.9	83.2
0°-180°	7247.6	100.0

Coefficient of Utilization



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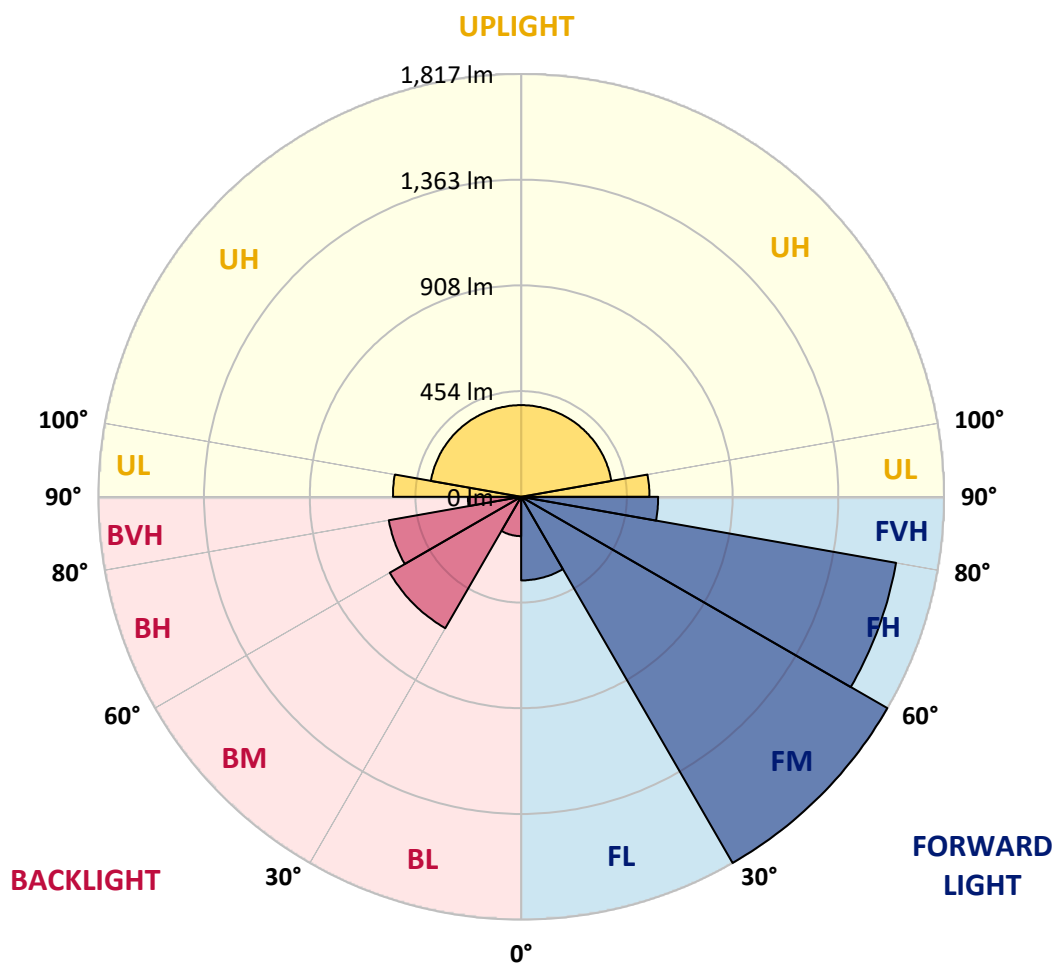
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	359.1	5.0			
FM	(30°-60°)	1816.8	25.1			
FH	(60°-80°)	1635.5	22.6			G1/1800
FVH	(80°-90°)	588.7	8.1			G4/750
BL	(0°-30°)	169.1	2.3	B1/500		
BM	(30°-60°)	652.1	9.0	B1/1000		
BH	(60°-80°)	577.6	8.0	B2/1000		G2/1000
BVH	(80°-90°)	229.1	3.2			G3/500
UL	(90°-100°)	551.1	7.6		U4/1000	
UH	(100°-180°)	393.9	5.4		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°	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1
2.5°	498.5	497.5	496.5	491.5	489.6	482.7	476.8	469.8	466.0	462.0	454.1
5°	550.8	548.8	545.8	540.9	532.0	522.2	510.4	496.5	489.6	481.7	466.0
7.5°	602.1	601.2	600.2	590.2	581.4	565.6	548.8	529.1	519.2	506.4	482.7
10°	658.4	660.4	654.5	645.6	630.8	614.0	592.3	565.6	552.8	539.0	507.4
12.5°	722.5	721.6	716.7	701.8	686.0	667.3	640.7	612.0	597.2	578.5	538.0
15°	787.7	783.8	777.9	767.9	748.2	726.5	697.9	665.3	648.6	627.8	582.4
17.5°	855.8	852.8	848.9	832.2	815.3	788.7	765.0	729.5	708.7	686.0	633.7
20°	923.9	922.0	917.0	904.2	883.4	859.8	837.1	799.5	775.9	748.2	689.0
22.5°	995.9	995.0	990.0	975.3	958.5	943.7	915.0	872.6	849.9	816.3	747.3
25°	1070.0	1071.0	1062.1	1048.3	1036.5	1022.6	993.0	948.6	921.0	886.4	808.4
27.5°	1150.0	1146.0	1140.1	1127.3	1117.4	1101.6	1071.0	1025.6	998.9	961.5	874.5
30°	1224.0	1225.0	1212.2	1204.2	1197.4	1182.5	1153.9	1107.5	1077.9	1043.4	943.7
32.5°	1304.0	1300.0	1291.2	1283.2	1278.3	1262.5	1235.8	1195.4	1165.8	1122.3	1013.7
35°	1374.0	1373.0	1363.2	1365.1	1352.3	1339.5	1319.7	1282.3	1251.7	1210.2	1091.7
37.5°	1446.1	1444.1	1437.2	1439.2	1424.4	1414.5	1401.6	1369.1	1343.4	1301.0	1172.7
40°	1514.2	1509.3	1504.4	1507.3	1496.5	1489.5	1482.7	1460.0	1433.3	1388.9	1252.6
42.5°	1569.5	1568.5	1565.5	1570.4	1559.6	1557.6	1561.6	1549.8	1526.0	1480.6	1333.5
45°	1616.9	1616.9	1620.8	1623.7	1613.9	1616.9	1636.6	1633.7	1614.9	1569.5	1417.5
47.5°	1654.4	1653.4	1663.2	1667.2	1662.3	1673.1	1705.7	1719.5	1703.7	1661.3	1495.5
50°	1676.1	1676.1	1693.9	1698.8	1699.7	1720.5	1765.9	1796.5	1785.7	1745.2	1569.5
52.5°	1682.0	1684.0	1708.6	1719.5	1723.5	1756.0	1818.2	1864.6	1860.6	1822.2	1636.6
55°	1672.1	1675.1	1707.7	1724.5	1736.3	1781.7	1859.7	1924.9	1921.9	1886.3	1691.9
57.5°	1644.5	1648.5	1689.9	1714.6	1736.3	1795.5	1890.3	1972.2	1976.1	1942.6	1739.2
60°	1601.1	1606.0	1656.4	1688.9	1722.4	1794.6	1906.1	2002.8	2011.7	1977.2	1770.8
62.5°	1540.9	1546.8	1605.0	1650.4	1695.8	1780.8	1907.1	2017.7	2029.4	1998.8	1785.7
63°	1525.0	1536.0	1596.1	1641.5	1688.9	1775.7	1906.1	2018.6	2031.5	2000.9	1786.7
65°	1463.8	1475.7	1544.8	1598.2	1655.3	1753.1	1892.3	2013.7	2029.4	1999.9	1781.7
67.5°	1378.0	1393.8	1466.8	1532.0	1605.0	1712.6	1861.7	1989.0	2006.7	1978.2	1760.0
70°	1280.2	1302.0	1378.9	1460.0	1540.9	1658.3	1814.3	1946.6	1963.3	1933.7	1716.6
72.5°	1181.5	1205.2	1289.1	1376.0	1466.8	1591.2	1748.1	1882.4	1898.2	1872.5	1656.4
75°	1081.9	1099.7	1186.5	1287.2	1385.9	1513.3	1675.1	1800.5	1818.2	1787.6	1581.4
77.5°	976.2	1001.0	1090.8	1192.5	1298.0	1433.3	1588.2	1706.7	1717.5	1686.9	1484.6
80°	872.6	900.2	988.1	1097.6	1209.2	1339.5	1487.6	1603.1	1609.0	1576.4	1381.0
82.5°	781.7	807.4	897.2	1002.9	1115.4	1248.7	1384.0	1482.7	1486.6	1456.0	1273.4
85°	694.0	716.7	802.5	911.0	1024.6	1148.0	1277.3	1361.2	1366.2	1329.6	1159.8
87.5°	615.0	632.7	715.7	824.2	934.8	1056.2	1163.8	1233.9	1234.9	1199.3	1047.3
90°	546.9	557.7	638.6	745.2	849.9	958.5	1059.2	1120.3	1112.5	1074.9	930.8
92.5°	480.7	489.6	563.6	667.3	770.9	868.7	956.5	995.9	987.1	954.5	827.2
95°	427.4	431.4	499.5	597.2	690.0	782.8	857.7	886.4	877.5	843.0	724.6
97.5°	373.2	379.0	441.2	530.1	619.9	703.8	765.0	783.8	767.0	733.5	634.7
100°	332.7	334.6	387.0	471.8	556.7	629.7	678.1	690.0	672.2	641.6	552.8
102.5°	295.1	294.2	341.6	420.5	496.5	557.7	599.1	598.2	579.4	552.8	479.8
105°	262.6	261.6	298.1	371.1	439.3	493.6	524.2	520.2	501.5	475.8	417.6
107.5°	232.0	233.9	260.5	324.8	386.0	434.3	457.1	448.2	431.4	407.6	362.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	209.3	209.3	230.0	285.3	341.6	381.0	398.7	386.0	370.2	346.5	312.9
112.5°	188.5	188.5	203.4	248.8	300.0	335.6	347.5	330.7	311.9	296.1	271.5
115°	169.8	169.8	179.6	216.1	261.6	291.2	298.1	280.3	264.5	252.7	236.9
117.5°	154.0	154.0	159.9	185.6	226.1	253.7	257.7	237.9	227.0	215.2	206.3
120°	139.2	140.1	142.2	159.0	192.5	216.1	218.2	199.4	190.5	184.5	179.6
122.5°	126.3	126.3	127.4	137.2	163.9	183.6	183.6	167.8	161.9	159.9	156.0
125°	114.5	114.5	114.5	118.5	136.3	152.0	150.1	140.1	137.2	137.2	135.2
127.5°	103.6	102.7	101.7	102.7	111.5	122.4	122.4	115.5	115.5	116.5	117.4
130°	92.8	91.8	89.8	87.9	88.8	96.8	95.7	93.8	95.7	98.7	100.7
132.5°	81.9	81.9	79.0	74.1	71.1	73.0	74.1	75.0	77.9	81.9	84.9
135°	71.1	71.1	68.1	61.2	55.2	54.3	53.3	58.2	63.2	67.1	70.1
137.5°	60.3	60.3	57.3	49.3	41.4	37.5	36.5	44.4	49.3	53.3	56.3
140°	50.3	49.3	46.4	38.5	29.6	23.7	23.7	31.6	36.5	40.5	44.4
142.5°	39.5	39.5	36.5	29.6	19.7	13.8	14.8	21.7	25.7	28.6	31.6
145°	29.6	29.6	26.7	19.7	11.9	7.0	7.9	13.8	16.8	19.7	22.7
147.5°	20.8	20.8	17.8	12.8	5.9	1.9	4.0	7.9	9.8	11.9	13.8
150°	12.8	12.8	10.8	7.0	3.0	0.0	1.0	4.0	4.9	5.9	7.9
152.5°	7.0	7.0	4.9	3.0	1.0	0.0	0.0	1.0	1.9	3.0	4.0
155°	3.0	3.0	1.9	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
157.5°	1.0	1.0	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°	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1
2.5°	450.1	446.2	437.3	429.4	422.5	415.5	409.7	404.7	403.8	400.8	401.7
5°	457.1	449.2	432.3	417.6	401.7	388.9	379.0	370.2	363.2	360.3	359.3
7.5°	470.9	458.0	432.3	408.7	387.0	367.2	350.5	337.6	329.7	324.8	325.7
10°	490.6	473.8	439.3	406.7	376.0	349.4	327.8	311.9	300.0	295.1	295.1
12.5°	516.3	496.5	452.0	409.7	371.1	337.6	310.0	290.2	279.4	272.4	272.4
15°	557.7	529.1	473.8	419.5	371.1	330.7	300.0	278.3	268.5	263.5	262.6
17.5°	602.1	570.5	504.4	439.3	380.0	329.7	299.1	280.3	268.5	262.6	262.6
20°	650.5	613.0	536.9	462.0	394.9	341.6	307.0	284.3	269.4	261.6	260.5
22.5°	702.8	661.3	571.5	485.7	412.6	361.3	316.8	287.2	269.4	261.6	260.5
25°	761.1	710.7	607.0	512.3	436.3	379.0	328.7	291.2	269.4	259.6	258.6
27.5°	820.3	764.0	646.5	538.0	460.9	395.8	339.5	294.2	269.4	258.6	257.7
30°	884.4	817.3	685.1	567.5	483.7	410.6	348.4	297.2	269.4	257.7	256.7
32.5°	947.7	875.5	726.5	601.2	505.4	422.5	356.3	303.0	270.5	256.7	254.7
35°	1017.7	937.7	770.9	634.7	525.2	433.3	363.2	307.0	269.4	254.7	253.7
37.5°	1090.8	998.9	811.4	664.3	540.9	441.2	367.2	310.0	269.4	253.7	251.7
40°	1163.8	1061.1	854.8	694.0	555.8	448.2	371.1	312.9	268.5	251.7	249.7
42.5°	1234.9	1122.3	897.2	718.6	567.5	453.1	373.2	314.9	268.5	249.7	247.8
45°	1307.9	1184.5	941.7	742.3	576.4	455.0	373.2	314.9	269.4	247.8	245.8
47.5°	1378.0	1242.8	982.1	761.1	583.4	456.0	373.2	314.9	269.4	245.8	242.8
50°	1440.2	1296.1	1015.7	776.8	587.3	456.0	372.1	314.9	269.4	242.8	239.9
52.5°	1500.4	1342.4	1047.3	787.7	589.3	454.1	370.2	312.9	269.4	239.9	236.9
55°	1548.7	1384.0	1069.0	794.6	587.3	451.1	366.2	311.0	268.5	236.9	232.9
57.5°	1587.2	1413.5	1085.8	796.6	583.4	446.2	362.2	308.0	266.5	232.9	230.0
60°	1612.0	1430.3	1090.8	792.7	577.5	439.3	357.3	305.0	263.5	229.0	225.0
62.5°	1620.8	1436.2	1088.7	784.7	568.6	432.3	352.4	301.1	260.5	224.0	220.1
63°	1620.8	1435.2	1087.8	782.8	565.6	430.4	351.4	300.0	259.6	223.1	219.1
65°	1614.9	1427.3	1077.9	770.9	556.7	423.5	346.5	296.1	257.7	220.1	215.2
67.5°	1590.2	1406.7	1055.2	753.2	542.0	413.6	338.6	290.2	252.7	215.2	210.2
70°	1550.7	1371.1	1024.6	729.5	526.1	402.7	330.7	284.3	247.8	210.2	204.3
72.5°	1492.5	1321.8	986.1	701.8	507.4	390.9	321.8	277.4	240.8	204.3	197.4
75°	1420.5	1261.5	940.7	670.2	488.7	377.1	312.9	269.4	233.9	198.5	189.6
77.5°	1335.6	1191.4	888.4	637.7	466.9	363.2	302.1	260.5	227.0	192.5	181.7
80°	1240.7	1108.5	832.2	601.2	444.2	348.4	291.2	251.7	217.2	184.5	173.7
82.5°	1146.0	1025.6	772.9	563.6	421.5	333.7	279.4	241.8	208.3	176.7	165.8
85°	1043.4	938.8	714.6	525.2	397.8	316.8	267.5	231.0	199.4	168.8	156.9
87.5°	944.7	850.9	650.5	487.6	375.1	302.1	255.6	220.1	188.5	159.0	150.1
90°	848.9	767.0	595.3	449.2	350.5	285.3	242.8	208.3	177.7	149.0	142.2
92.5°	756.2	682.1	535.0	413.6	327.8	269.4	229.0	196.4	166.8	140.1	134.2
95°	669.2	608.0	484.7	378.1	306.0	253.7	216.1	185.6	155.0	129.3	125.3
97.5°	587.3	538.0	435.3	347.5	282.3	237.9	202.3	172.8	143.1	119.5	117.4
100°	518.2	475.8	388.9	315.9	261.6	222.1	189.6	159.9	131.2	109.6	109.6
102.5°	453.1	415.5	345.5	286.2	240.8	205.3	174.7	147.1	119.5	100.7	100.7
105°	395.8	365.2	308.9	259.6	221.1	189.6	160.9	134.2	106.6	91.8	91.8
107.5°	343.5	319.8	274.5	235.0	201.4	172.8	147.1	120.4	93.8	83.0	83.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	301.1	282.3	243.8	210.2	182.6	159.0	134.2	107.6	81.9	75.0	75.0
112.5°	260.5	245.8	215.2	189.6	165.8	144.1	120.4	94.7	72.0	68.1	68.1
115°	228.0	216.1	190.5	168.8	149.0	129.3	106.6	81.9	62.2	60.3	61.2
117.5°	199.4	189.6	169.8	152.0	134.2	115.5	94.7	70.1	54.3	54.3	54.3
120°	173.7	166.8	149.0	134.2	119.5	101.7	81.9	59.2	47.4	47.4	48.4
122.5°	153.0	146.1	133.3	118.5	104.6	88.8	70.1	49.3	41.4	42.5	43.5
125°	132.3	128.3	116.5	103.6	90.8	75.0	58.2	40.5	36.5	37.5	38.5
127.5°	115.5	112.5	100.7	89.8	77.9	63.2	47.4	32.5	30.6	32.5	33.6
130°	98.7	96.8	87.9	77.0	65.2	52.3	37.5	26.7	26.7	28.6	28.6
132.5°	83.9	81.9	74.1	63.2	53.3	40.5	28.6	21.7	22.7	24.7	24.7
135°	70.1	68.1	61.2	52.3	41.4	30.6	21.7	17.8	19.7	20.8	20.8
137.5°	57.3	55.2	49.3	40.5	30.6	21.7	15.8	13.8	15.8	17.8	17.8
140°	43.5	43.5	38.5	30.6	21.7	14.8	10.8	10.8	12.8	13.8	13.8
142.5°	32.5	31.6	28.6	21.7	13.8	8.9	7.0	7.9	9.8	10.8	10.8
145°	22.7	21.7	19.7	14.8	7.9	4.9	4.0	5.9	7.0	7.9	7.9
147.5°	14.8	13.8	12.8	8.9	4.0	1.9	1.9	4.0	4.9	5.9	5.9
150°	7.9	7.9	7.0	4.0	1.9	0.0	1.0	1.9	3.0	3.0	3.0
152.5°	4.0	4.0	3.0	1.9	1.0	0.0	0.0	0.0	1.0	1.0	1.0
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	1.0	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	1.0	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)