

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: P240206

Luminaire Tested: **UTLD-AF24-90-D-U-T4W-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-26)
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-T4W-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7051.6 lumens
Efficiency: N/A
Efficacy: 75.0 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



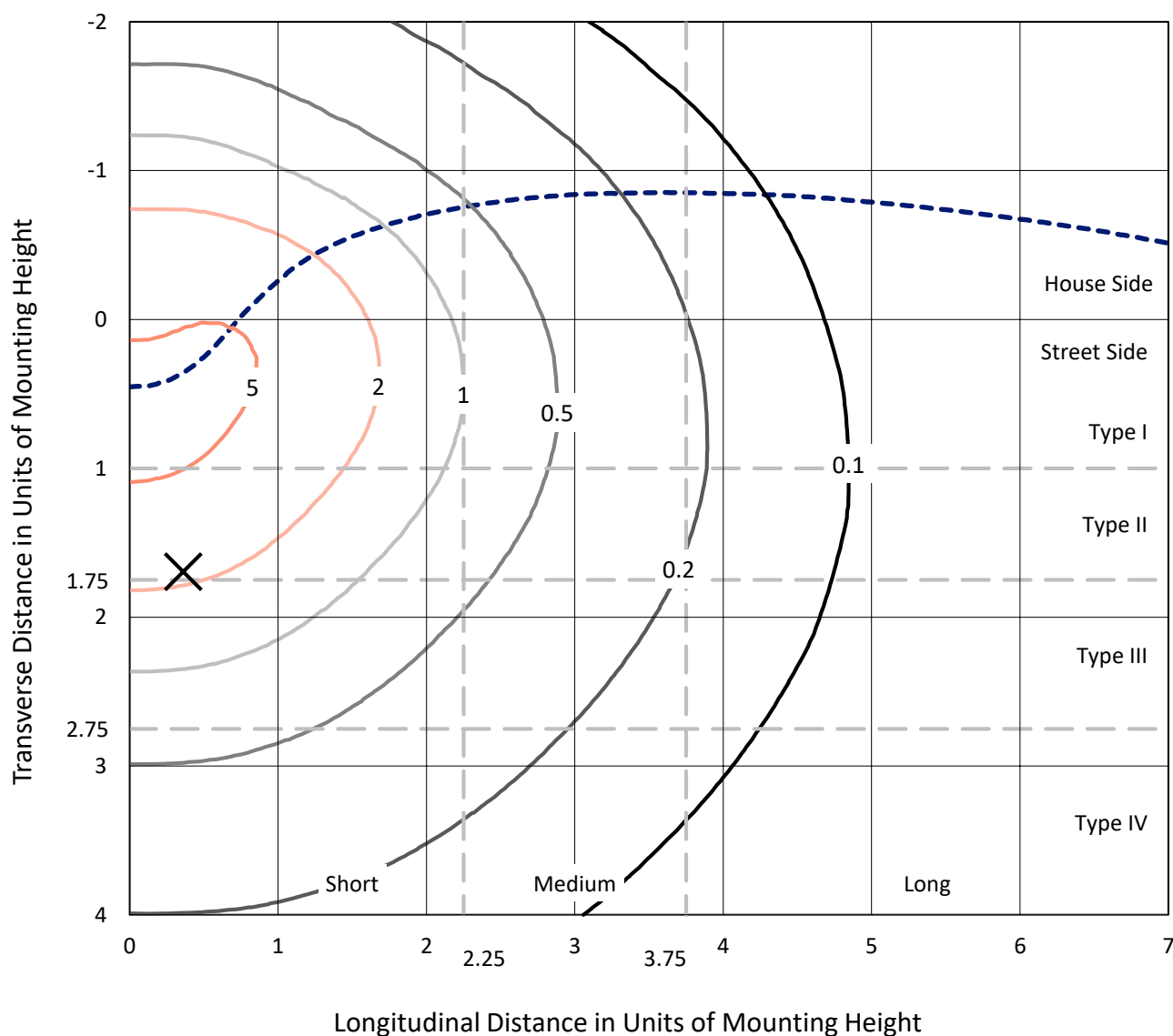
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

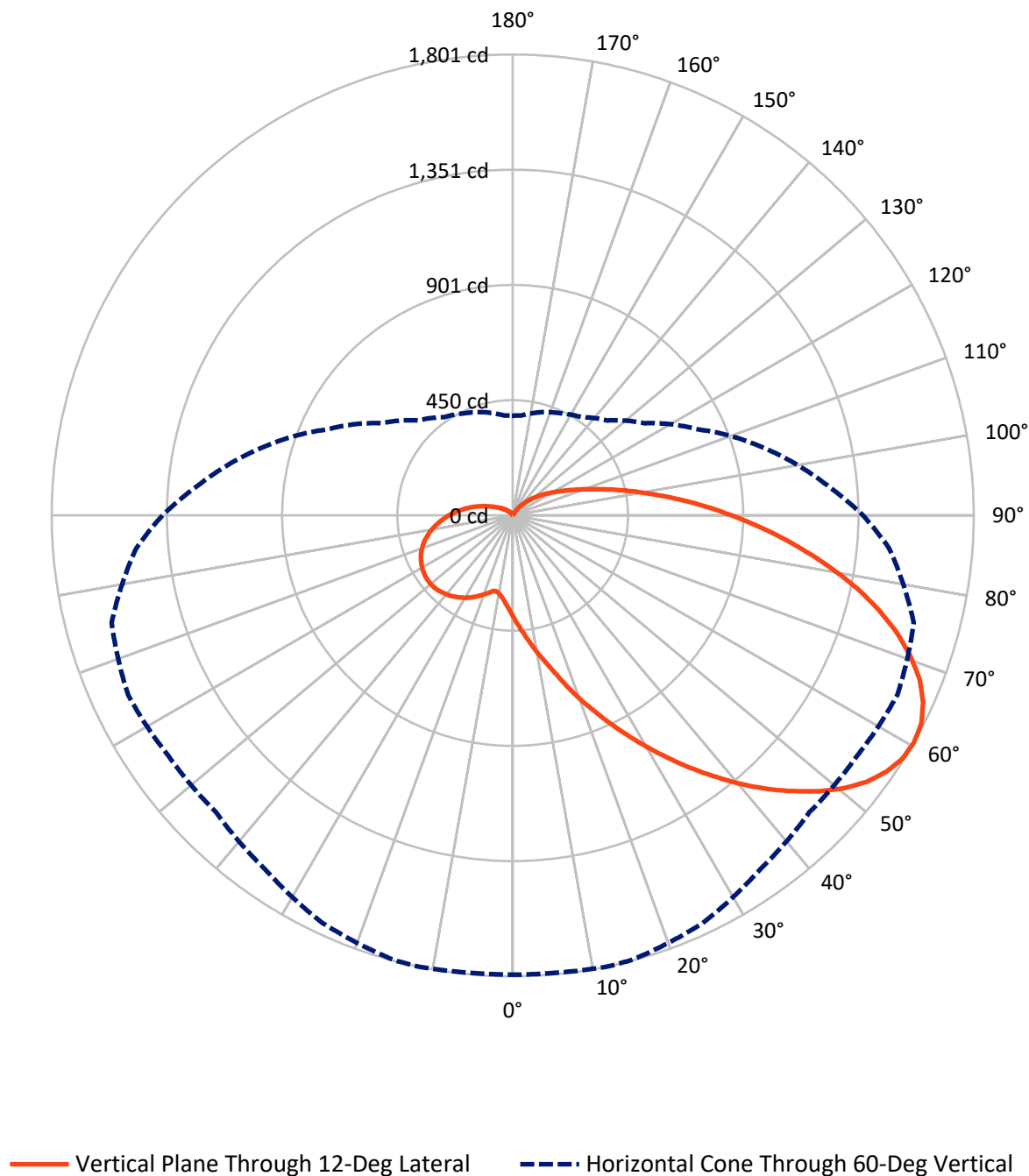


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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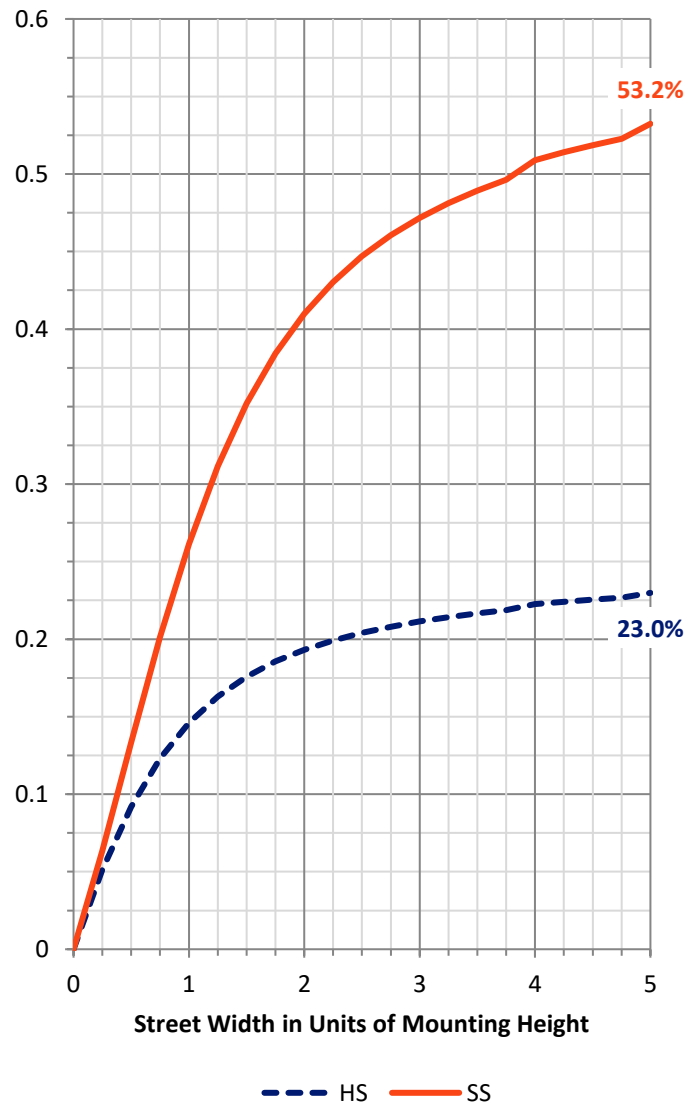
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1733.7	399.2	2132.9
	% Fixture	24.6	5.7	30.2
Street Side	Lumens	4091.3	827.4	4918.7
	% Fixture	58.0	11.7	69.8
Total	Lumens	5825.0	1226.6	7051.6
	% Fixture	82.6	17.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	0.6
10°-20°	138.3	2.0
20°-30°	296.6	4.2
30°-40°	519.2	7.4
40°-50°	781.9	11.1
50°-60°	1020.9	14.5
60°-70°	1136.9	16.1
70°-80°	1061.3	15.1
80°-90°	830.3	11.8
90°-100°	561.1	8.0
100°-110°	339.1	4.8
110°-120°	186.8	2.6
120°-130°	92.9	1.3
130°-140°	37.2	0.5
140°-150°	8.9	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5825.0	82.6
0°-180°	7051.6	100.0

Coefficient of Utilization



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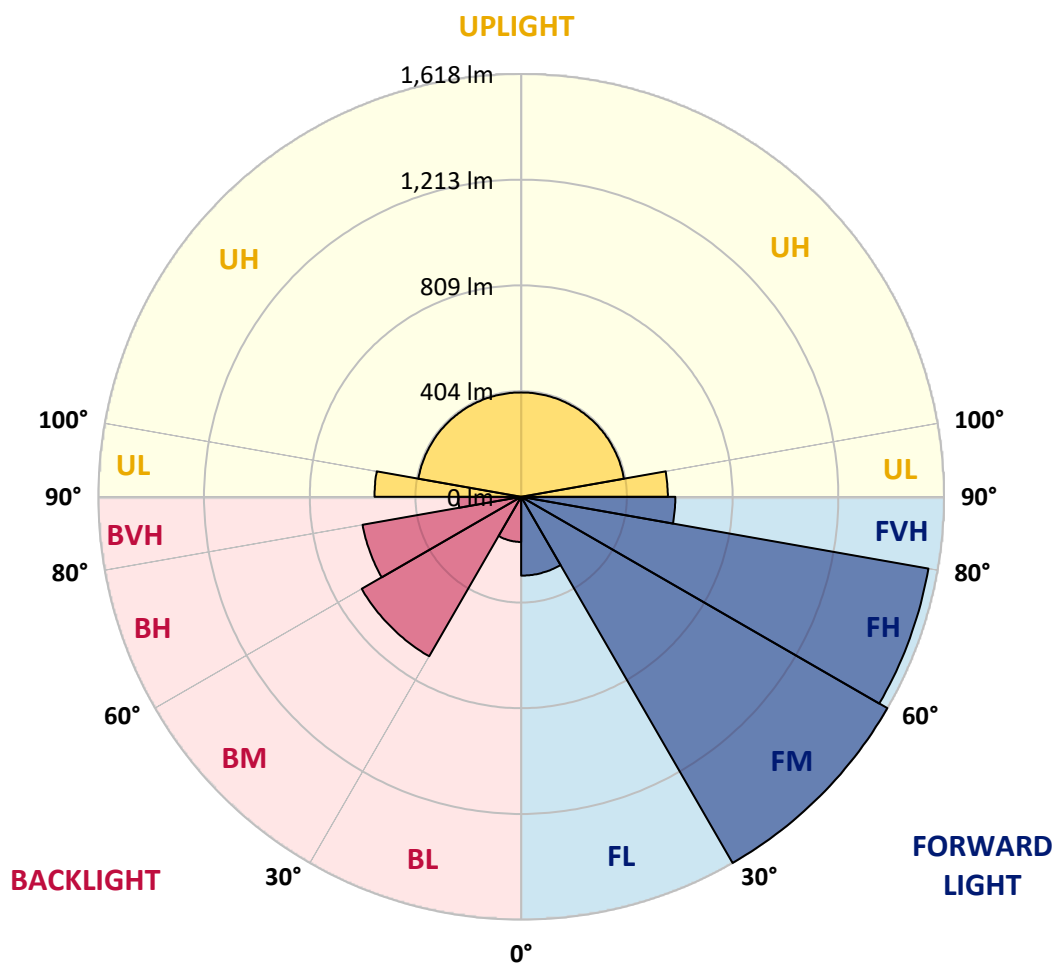
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	301.6	4.3			
FM	(30°-60°)	1617.8	22.9			
FH	(60°-80°)	1582.3	22.4			G1/1800
FVH	(80°-90°)	589.6	8.4			G4/750
BL	(0°-30°)	172.8	2.4	B1/500		
BM	(30°-60°)	704.3	10.0	B1/1000		
BH	(60°-80°)	616.0	8.7	B2/1000		G2/1000
BVH	(80°-90°)	240.7	3.4			G3/500
UL	(90°-100°)	561.1	8.0		U4/1000	
UH	(100°-180°)	399.2	5.7		U3/500	

BUG Rating: B2-U4-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6
2.5°	432.1	430.3	430.3	428.4	428.4	424.6	421.8	417.2	412.5	406.9	402.2
5°	466.6	466.6	464.8	464.8	461.0	454.5	448.0	439.6	431.1	421.8	410.6
7.5°	507.7	506.8	506.8	503.9	499.4	489.9	480.6	468.5	455.4	439.6	424.6
10°	549.7	548.7	548.7	546.0	540.3	529.2	515.1	501.2	484.3	463.8	443.3
12.5°	600.1	596.3	594.5	593.5	584.2	573.9	556.2	539.4	517.1	493.7	468.5
15°	653.3	652.3	646.7	644.0	634.6	618.7	601.9	581.4	559.0	532.8	502.0
17.5°	713.0	713.0	709.2	705.5	695.2	673.8	652.3	632.7	610.3	578.6	544.1
20°	777.4	777.4	772.7	767.1	754.0	735.5	713.9	690.6	663.5	629.0	587.0
22.5°	845.5	843.6	837.2	833.3	817.5	796.9	780.2	753.2	721.4	682.3	633.7
25°	917.3	914.6	908.1	904.3	885.6	869.8	850.1	818.5	782.1	737.3	683.1
27.5°	992.9	985.5	980.8	975.2	957.4	941.6	914.6	884.7	842.7	796.1	736.3
30°	1065.8	1063.0	1057.3	1049.9	1034.0	1015.3	985.5	952.8	911.8	860.4	794.2
32.5°	1148.8	1146.0	1136.7	1129.2	1108.7	1089.1	1058.2	1023.8	979.8	925.8	853.9
35°	1231.9	1228.1	1217.9	1209.5	1192.7	1163.7	1127.3	1094.7	1050.8	995.8	918.4
37.5°	1317.6	1310.2	1299.1	1293.4	1272.9	1237.5	1199.2	1163.7	1123.6	1067.6	983.7
40°	1398.9	1395.1	1382.1	1375.6	1353.1	1309.4	1267.3	1235.6	1199.2	1140.4	1051.7
42.5°	1482.0	1475.4	1462.3	1455.9	1429.6	1379.3	1335.4	1305.5	1274.8	1216.9	1120.8
45°	1555.8	1552.9	1537.1	1533.4	1501.5	1447.4	1397.0	1370.8	1343.9	1288.8	1184.3
47.5°	1627.5	1621.0	1610.7	1606.1	1568.8	1507.1	1457.7	1435.3	1412.9	1362.5	1252.4
50°	1686.3	1685.5	1676.0	1670.5	1627.5	1560.3	1510.0	1492.3	1480.1	1431.7	1314.0
52.5°	1736.7	1735.8	1730.2	1724.6	1678.9	1608.9	1556.6	1543.5	1539.8	1495.0	1368.2
55°	1772.1	1771.3	1769.5	1763.8	1718.9	1647.2	1595.8	1585.6	1590.3	1548.2	1416.6
57.5°	1792.7	1791.9	1794.6	1789.8	1744.3	1673.3	1622.9	1620.1	1631.2	1593.0	1453.0
60°	1794.6	1794.6	1801.1	1798.3	1757.2	1687.3	1639.7	1640.6	1658.3	1622.0	1476.4
62.5°	1777.7	1777.7	1791.9	1789.0	1753.5	1686.3	1642.5	1650.0	1672.3	1637.8	1484.8
65°	1741.4	1746.1	1762.0	1762.0	1734.0	1673.3	1633.1	1644.4	1671.4	1636.9	1479.2
67.5°	1683.5	1692.9	1715.3	1717.1	1697.6	1644.4	1608.9	1624.8	1654.6	1618.2	1455.9
70°	1611.7	1624.8	1648.0	1654.6	1646.2	1602.4	1572.5	1591.2	1620.1	1583.7	1417.5
72.5°	1527.7	1539.8	1569.7	1577.1	1580.0	1545.5	1522.1	1544.5	1567.9	1528.6	1364.4
75°	1434.3	1444.6	1478.3	1485.7	1497.8	1478.3	1463.3	1481.0	1507.1	1458.6	1296.3
77.5°	1321.5	1339.2	1376.5	1384.9	1408.3	1398.9	1387.7	1409.2	1428.8	1377.4	1216.9
80°	1212.2	1234.6	1265.4	1282.2	1310.2	1309.4	1311.2	1325.2	1342.0	1286.0	1131.1
82.5°	1101.3	1117.0	1153.4	1169.3	1212.2	1222.5	1222.5	1241.1	1246.7	1184.3	1038.7
85°	989.3	1007.9	1044.3	1060.2	1106.8	1129.2	1135.8	1145.0	1146.0	1080.7	943.5
87.5°	890.4	901.5	936.1	955.6	1006.1	1032.2	1040.5	1051.7	1044.3	979.8	845.5
90°	791.4	801.6	835.3	851.1	906.2	937.0	955.6	960.3	945.3	877.3	756.0
92.5°	699.0	709.2	741.0	759.7	813.8	846.4	864.1	867.9	851.1	782.1	669.1
95°	617.8	617.8	652.3	666.4	727.0	763.4	780.2	780.2	756.8	688.8	586.0
97.5°	541.3	543.1	570.3	588.0	644.0	682.3	700.0	700.9	668.2	603.7	516.0
100°	472.2	475.1	500.2	516.0	570.3	610.3	626.2	623.5	589.8	523.6	446.1
102.5°	415.3	415.3	436.7	449.8	501.2	541.3	556.2	550.5	516.0	452.7	389.2
105°	364.0	365.8	379.7	392.9	441.4	478.8	493.7	485.3	449.8	388.2	339.7
107.5°	322.9	322.0	331.3	340.7	386.3	421.8	434.9	424.6	387.4	332.2	294.9
110°	281.9	282.8	290.2	296.7	338.8	372.3	381.7	373.3	331.3	282.8	255.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	249.2	249.2	254.8	260.4	290.2	322.9	334.2	322.0	281.9	239.9	223.0
115°	221.1	222.2	224.0	226.8	252.0	281.9	291.1	276.2	237.1	205.3	194.2
117.5°	196.8	196.8	197.9	200.6	216.6	243.5	250.1	234.3	200.6	175.5	170.8
120°	176.4	175.5	174.5	175.5	186.7	206.3	212.7	196.8	167.0	152.1	148.4
122.5°	156.8	156.8	154.9	155.8	158.7	173.6	178.2	163.4	141.0	131.5	130.7
125°	138.1	138.1	136.2	135.4	134.4	141.8	143.6	132.5	116.7	113.8	113.0
127.5°	120.4	121.3	118.5	117.6	113.8	114.8	115.7	105.4	96.1	97.0	98.0
130°	105.4	105.4	102.7	100.7	95.2	90.5	88.6	82.2	78.3	82.2	84.9
132.5°	91.4	89.6	87.7	85.9	77.5	70.9	67.2	61.6	63.5	69.1	71.9
135°	76.5	75.6	72.7	71.9	63.5	53.2	46.7	44.8	50.4	57.0	58.8
137.5°	62.5	62.5	59.8	57.9	48.5	38.2	31.6	31.6	38.2	44.8	48.5
140°	49.5	49.5	46.7	44.8	36.4	26.1	19.5	20.5	28.0	34.5	37.3
142.5°	37.3	37.3	34.5	33.6	26.1	16.8	11.2	13.1	19.5	25.2	28.0
145°	27.1	26.1	24.2	23.4	16.8	10.3	5.6	7.4	12.1	16.8	19.5
147.5°	17.7	17.7	15.9	15.0	10.3	5.6	1.8	3.8	7.4	10.3	13.1
150°	10.3	10.3	9.3	8.4	5.6	1.8	0.0	1.8	3.8	5.6	7.4
152.5°	5.6	5.6	4.7	4.7	1.8	1.0	0.0	0.0	1.0	2.8	2.8
155°	1.8	1.8	1.8	1.8	1.0	0.0	0.0	0.0	0.0	1.0	1.0
157.5°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6
2.5°	399.5	396.6	391.0	386.3	381.7	376.1	373.3	370.5	368.6	366.8	366.8
5°	405.1	399.5	389.2	378.9	369.6	361.2	353.7	348.1	345.3	343.4	342.5
7.5°	417.2	408.7	391.9	376.1	362.0	349.0	338.8	330.4	325.7	322.9	322.0
10°	433.0	420.8	399.5	377.9	359.3	342.5	328.6	318.3	311.7	308.8	307.0
12.5°	454.5	439.6	411.6	384.5	360.2	339.7	322.0	310.8	304.2	300.5	300.5
15°	487.2	467.5	433.0	396.6	366.8	341.6	322.0	309.9	305.2	303.3	302.3
17.5°	524.5	502.0	460.1	418.1	379.7	348.1	330.4	322.9	316.5	313.6	313.6
20°	565.5	538.4	489.9	442.4	399.5	366.8	347.1	335.0	327.6	324.7	323.9
22.5°	606.6	578.6	521.7	467.5	420.0	391.0	363.1	348.1	338.8	335.0	334.2
25°	653.3	622.4	555.2	494.6	448.8	416.2	383.6	362.0	349.9	345.3	344.3
27.5°	703.6	667.2	592.6	523.6	476.9	438.5	402.2	373.3	361.2	355.5	354.6
30°	756.0	715.7	629.9	553.4	503.9	458.3	420.0	387.4	371.4	364.9	364.0
32.5°	810.9	763.4	670.1	588.9	529.2	476.0	434.9	400.3	380.8	373.3	373.3
35°	872.6	817.5	709.2	621.5	552.6	493.7	448.0	412.5	389.2	381.7	381.7
37.5°	931.3	871.7	751.2	656.9	573.9	507.7	458.3	423.7	397.6	388.2	388.2
40°	993.9	925.8	791.4	685.9	592.6	518.9	467.5	432.1	404.0	395.7	393.8
42.5°	1054.6	979.8	834.3	715.7	608.5	528.2	475.1	439.6	409.7	399.5	398.5
45°	1118.0	1034.0	875.3	740.0	621.5	534.8	478.8	444.2	416.2	403.1	401.3
47.5°	1173.1	1085.4	915.5	761.5	631.8	538.4	481.5	448.0	420.0	405.1	403.1
50°	1228.1	1131.1	949.1	779.2	637.4	540.3	482.5	448.8	422.8	405.1	403.1
52.5°	1277.6	1174.0	978.0	791.4	640.1	539.4	481.5	448.8	423.7	403.1	401.3
55°	1318.6	1208.5	998.5	798.8	640.1	536.6	478.8	447.0	422.8	401.3	398.5
57.5°	1349.5	1231.9	1012.5	800.8	635.6	531.0	474.0	444.2	420.0	397.6	393.8
60°	1368.2	1244.9	1017.2	796.1	628.0	524.5	468.5	440.6	417.2	391.9	389.2
62.5°	1373.7	1246.7	1012.5	786.6	617.8	515.1	460.1	434.0	411.6	385.4	382.6
65°	1364.4	1236.5	999.5	771.8	603.7	503.9	451.7	426.4	405.1	377.9	375.2
67.5°	1339.2	1214.1	976.1	751.2	588.0	490.9	442.4	418.1	397.6	369.6	364.0
70°	1301.9	1180.5	946.3	726.0	569.2	476.9	431.1	407.9	387.4	360.2	354.6
72.5°	1247.7	1134.7	907.1	695.2	547.8	461.9	417.2	395.7	376.1	349.0	341.6
75°	1182.4	1075.9	860.4	663.5	525.4	444.2	403.1	382.6	363.1	336.0	329.4
77.5°	1109.6	1014.5	810.0	627.1	499.4	426.4	388.2	368.6	348.1	322.0	312.6
80°	1030.4	942.6	755.0	589.8	475.1	406.9	371.4	352.8	332.2	307.0	296.7
82.5°	944.4	867.9	700.0	552.6	448.0	387.4	354.6	336.0	314.4	290.2	279.9
85°	860.4	791.4	642.0	512.3	421.8	366.8	336.0	317.3	297.7	272.5	263.2
87.5°	773.7	713.9	585.1	473.1	395.7	347.1	318.3	298.6	278.1	254.8	247.3
90°	698.0	641.2	532.0	435.8	368.6	325.7	299.6	279.0	259.5	237.1	230.5
92.5°	617.8	571.1	479.6	400.3	343.4	305.2	280.9	261.3	239.9	218.4	213.7
95°	548.7	510.5	432.1	364.9	316.5	285.6	262.2	241.7	220.2	199.7	196.8
97.5°	482.5	450.7	385.4	332.2	293.1	265.1	242.7	223.0	200.6	182.0	180.1
100°	423.7	395.7	343.4	302.3	267.8	245.4	224.8	204.5	182.0	164.2	164.2
102.5°	369.6	348.1	306.2	271.6	245.4	224.0	205.3	184.7	162.4	147.5	148.4
105°	325.7	305.2	270.6	244.5	223.0	203.4	185.7	165.2	143.6	131.5	132.5
107.5°	283.7	267.8	239.9	217.4	200.6	184.7	166.1	146.5	125.1	117.6	118.5
110°	247.3	235.1	212.7	194.2	181.1	166.1	149.3	128.8	109.2	104.6	104.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	215.6	205.3	188.5	173.6	160.5	148.4	130.7	112.0	93.3	91.4	91.4
115°	188.5	181.1	165.2	153.1	143.6	131.5	115.7	96.1	81.2	80.3	81.2
117.5°	165.2	158.7	145.6	135.4	127.0	115.7	100.7	82.2	69.1	70.0	70.9
120°	144.7	140.0	128.8	120.4	112.0	101.7	85.9	69.1	60.6	61.6	61.6
122.5°	127.9	123.1	113.8	105.4	98.0	87.7	73.8	57.9	52.2	54.1	54.1
125°	111.0	108.2	98.9	91.4	84.0	73.8	60.6	47.6	44.8	46.7	46.7
127.5°	96.1	94.3	86.8	78.3	70.9	61.6	49.5	39.3	38.2	40.1	40.1
130°	83.0	81.2	74.7	67.2	58.8	50.4	38.2	31.6	32.7	34.5	35.5
132.5°	70.9	70.0	63.5	55.0	47.6	39.3	29.8	26.1	28.0	29.8	29.8
135°	58.8	57.9	53.2	45.8	37.3	29.8	22.4	20.5	23.4	25.2	25.2
137.5°	48.5	46.7	42.9	35.5	28.0	21.5	15.9	16.8	18.7	20.5	20.5
140°	38.2	37.3	33.6	27.1	19.5	13.9	11.2	13.1	15.9	16.8	16.8
142.5°	28.0	28.0	24.2	18.7	12.1	8.4	7.4	9.3	12.1	13.1	13.1
145°	19.5	19.5	16.8	12.1	7.4	3.8	3.8	6.5	8.4	9.3	10.3
147.5°	13.1	12.1	10.3	7.4	3.8	1.0	1.8	4.7	5.6	6.5	6.5
150°	7.4	7.4	5.6	3.8	1.8	0.0	1.0	1.8	2.8	3.8	4.7
152.5°	2.8	2.8	1.8	1.0	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°	1.0	0.0	1.0	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)