

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: P240207

Luminaire Tested: **UTLD-AF24-100-D-U-T4W-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240207
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-AF24-100-D-U-T4W-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1200mA 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: 7066.9 lumens
Efficiency: N/A
Efficacy: 73.6 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 - G4

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



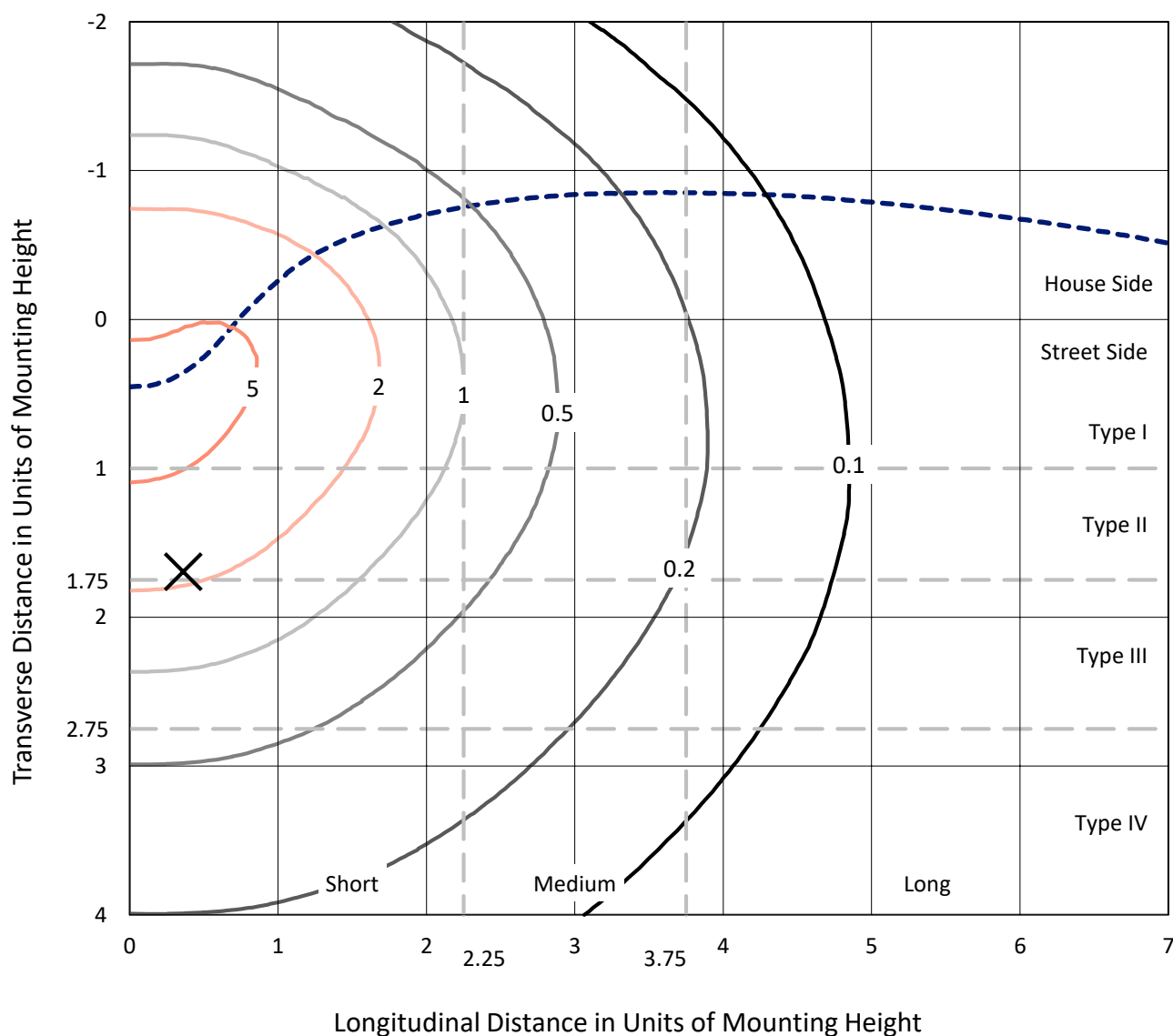
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

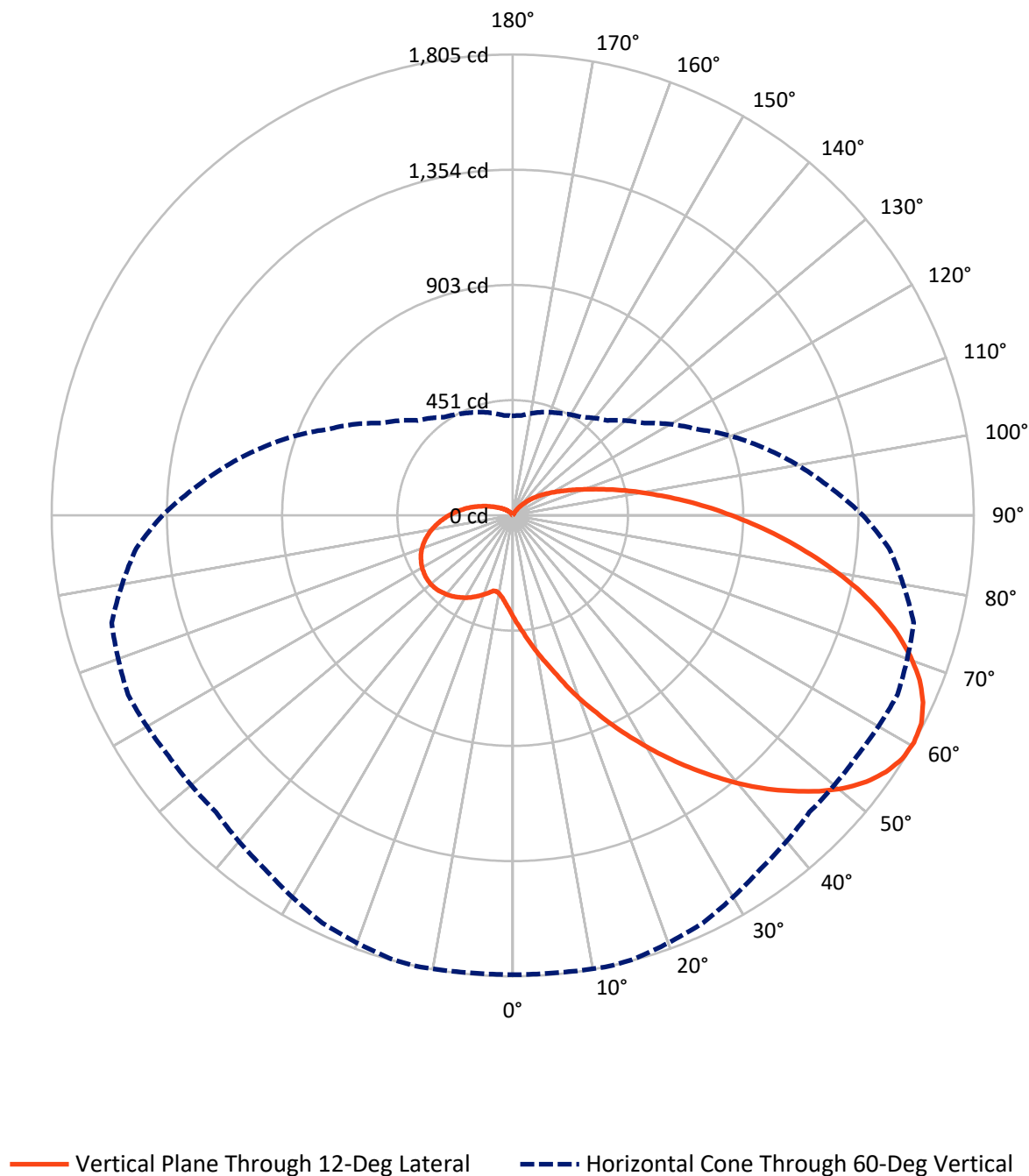


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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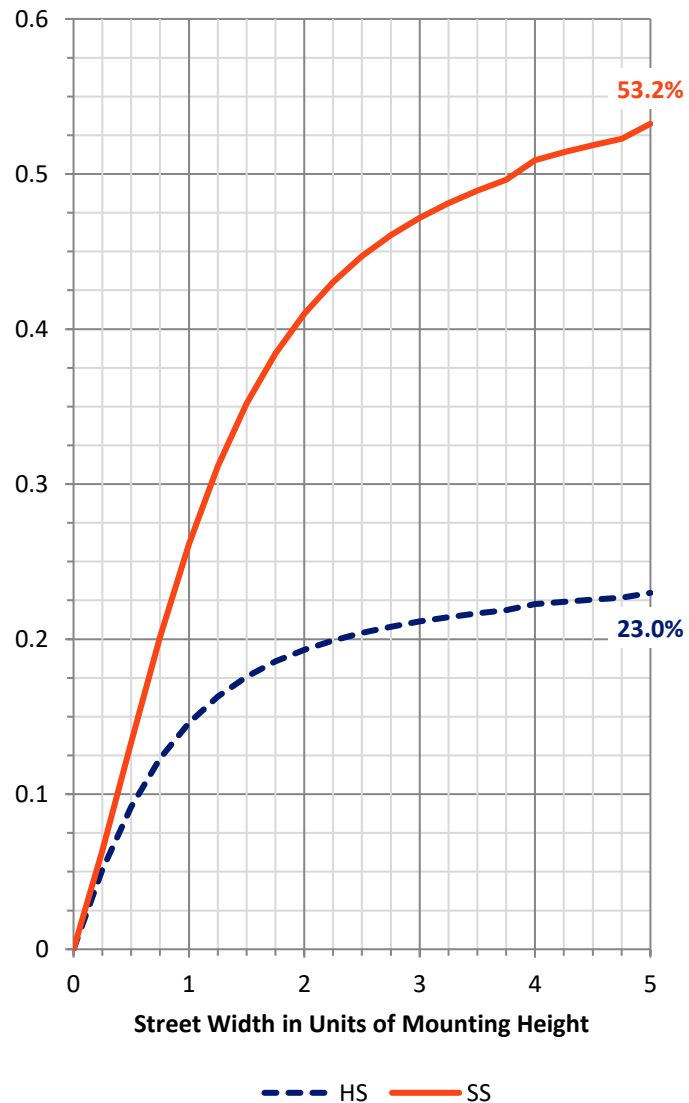
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1737.4	400.1	2137.6
	% Fixture	24.6	5.7	30.2
Street Side	Lumens	4100.1	829.2	4929.3
	% Fixture	58.0	11.7	69.8
Total	Lumens	5837.6	1229.3	7066.9
	% Fixture	82.6	17.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	0.6
10°-20°	138.6	2.0
20°-30°	297.2	4.2
30°-40°	520.4	7.4
40°-50°	783.6	11.1
50°-60°	1023.1	14.5
60°-70°	1139.4	16.1
70°-80°	1063.6	15.1
80°-90°	832.1	11.8
90°-100°	562.4	8.0
100°-110°	339.9	4.8
110°-120°	187.2	2.6
120°-130°	93.1	1.3
130°-140°	37.3	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°	5837.6	82.6
0°-180°	7066.9	100.0

Coefficient of Utilization



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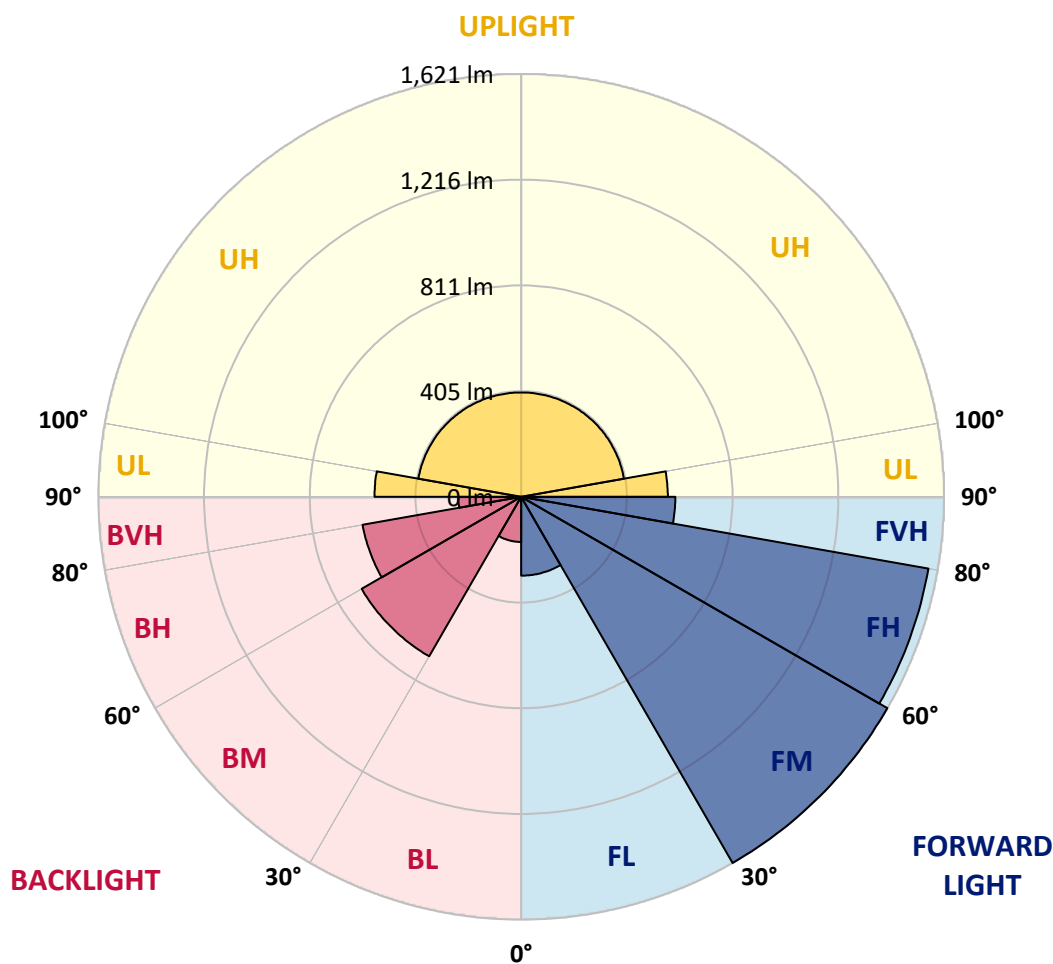
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	302.2	4.3			
FM	(30°-60°)	1621.3	22.9			
FH	(60°-80°)	1585.7	22.4			G1/1800
FVH	(80°-90°)	590.9	8.4			G4/750
BL	(0°-30°)	173.1	2.4	B1/500		
BM	(30°-60°)	705.8	10.0	B1/1000		
BH	(60°-80°)	617.3	8.7	B2/1000		G2/1000
BVH	(80°-90°)	241.2	3.4			G3/500
UL	(90°-100°)	562.4	8.0		U4/1000	
UH	(100°-180°)	400.1	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°	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5
2.5°	433.0	431.1	431.1	429.3	429.3	425.6	422.8	418.0	413.3	407.7	403.0
5°	467.6	467.6	465.8	465.8	462.0	455.5	448.9	440.6	432.1	422.8	411.5
7.5°	508.8	507.8	507.8	505.0	500.4	491.0	481.7	469.5	456.3	440.6	425.6
10°	550.8	549.9	549.9	547.2	541.5	530.2	516.2	502.3	485.4	464.8	444.2
12.5°	601.4	597.6	595.8	594.8	585.5	575.1	557.4	540.7	518.1	494.7	469.5
15°	654.7	653.7	648.1	645.2	636.0	620.0	603.2	582.7	560.2	534.1	503.1
17.5°	714.5	714.5	710.8	707.0	696.7	675.2	653.7	634.1	611.7	579.8	545.2
20°	779.0	779.0	774.4	768.7	755.6	737.0	715.4	692.0	665.0	630.3	588.3
22.5°	847.3	845.4	838.9	835.2	819.3	798.6	781.9	754.8	723.0	683.6	635.1
25°	919.3	916.5	910.0	906.3	887.5	871.7	852.0	820.2	783.7	738.8	684.6
27.5°	995.2	987.6	982.9	977.4	959.6	943.7	916.5	886.6	844.6	797.8	737.9
30°	1068.0	1065.3	1059.6	1052.1	1036.3	1017.5	987.6	954.9	913.7	862.3	796.0
32.5°	1151.3	1148.6	1139.1	1131.7	1111.0	1091.4	1060.6	1026.0	982.0	927.7	855.7
35°	1234.5	1230.8	1220.5	1212.1	1195.3	1166.3	1129.7	1097.1	1053.0	997.9	920.3
37.5°	1320.6	1313.1	1301.9	1296.3	1275.7	1240.1	1201.9	1166.3	1126.0	1069.9	985.7
40°	1401.9	1398.2	1385.1	1378.6	1356.1	1312.2	1270.0	1238.2	1201.9	1142.9	1054.1
42.5°	1485.2	1478.6	1465.5	1458.9	1432.8	1382.3	1338.3	1308.4	1277.6	1219.6	1123.1
45°	1559.0	1556.3	1540.3	1536.6	1504.8	1450.5	1400.0	1373.9	1346.7	1291.6	1186.9
47.5°	1631.1	1624.5	1614.2	1609.6	1572.1	1510.4	1460.9	1438.4	1416.0	1365.5	1255.1
50°	1690.0	1689.0	1679.8	1674.1	1631.1	1563.7	1513.2	1495.4	1483.3	1434.7	1316.8
52.5°	1740.5	1739.5	1734.0	1728.4	1682.5	1612.3	1560.0	1546.9	1543.2	1498.3	1371.1
55°	1776.0	1775.1	1773.3	1767.6	1722.7	1650.7	1599.2	1588.9	1593.6	1551.6	1419.8
57.5°	1796.7	1795.6	1798.5	1793.8	1748.0	1676.9	1626.5	1623.6	1634.8	1596.5	1456.2
60°	1798.5	1798.5	1805.1	1802.2	1761.0	1690.9	1643.3	1644.2	1662.0	1625.4	1479.6
62.5°	1781.7	1781.7	1795.6	1792.8	1757.3	1690.0	1646.0	1653.5	1675.9	1641.4	1488.0
65°	1745.2	1749.9	1765.7	1765.7	1737.7	1676.9	1636.7	1647.9	1675.1	1640.4	1482.3
67.5°	1687.2	1696.6	1718.9	1720.9	1701.2	1647.9	1612.3	1628.3	1658.2	1621.7	1458.9
70°	1615.2	1628.3	1651.7	1658.2	1649.9	1605.8	1575.8	1594.6	1623.6	1587.1	1420.7
72.5°	1531.0	1543.2	1573.2	1580.6	1583.3	1548.7	1525.4	1547.8	1571.2	1532.0	1367.4
75°	1437.6	1447.8	1481.4	1488.8	1501.1	1481.4	1466.5	1484.3	1510.4	1461.8	1299.1
77.5°	1324.3	1342.1	1379.5	1387.9	1411.3	1401.9	1390.8	1412.2	1431.9	1380.4	1219.6
80°	1214.9	1237.4	1268.2	1285.0	1313.1	1312.2	1314.1	1328.0	1344.9	1288.8	1133.6
82.5°	1103.6	1119.5	1156.0	1172.0	1214.9	1225.3	1225.3	1243.9	1249.5	1186.9	1040.9
85°	991.4	1010.1	1046.6	1062.4	1109.2	1131.7	1138.2	1147.5	1148.6	1083.0	945.5
87.5°	892.2	903.5	938.1	957.6	1008.3	1034.3	1042.8	1054.1	1046.6	982.0	847.3
90°	793.1	803.4	837.0	853.0	908.2	939.0	957.6	962.3	947.4	879.1	757.6
92.5°	700.5	710.8	742.6	761.3	815.5	848.3	866.0	869.8	853.0	783.7	670.6
95°	619.2	619.2	653.7	667.8	728.5	765.1	781.9	781.9	758.5	690.2	587.4
97.5°	542.5	544.3	571.4	589.2	645.2	683.6	701.5	702.4	669.6	605.1	517.3
100°	473.2	476.1	501.3	517.3	571.4	611.7	627.5	624.8	591.1	524.7	447.1
102.5°	416.2	416.2	437.7	450.8	502.3	542.5	557.4	551.8	517.3	453.7	389.9
105°	364.7	366.6	380.7	393.8	442.4	479.7	494.7	486.3	450.8	389.1	340.5
107.5°	323.6	322.7	332.0	341.3	387.3	422.8	435.8	425.6	388.1	332.9	295.5
110°	282.4	283.4	290.8	297.4	339.5	373.1	382.5	374.1	332.0	283.4	256.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	249.7	249.7	255.3	260.9	290.8	323.6	334.8	322.7	282.4	240.4	223.6
115°	221.7	222.6	224.4	227.3	252.5	282.4	291.8	276.9	237.5	205.7	194.5
117.5°	197.3	197.3	198.3	201.0	217.0	244.0	250.6	234.8	201.0	175.8	171.1
120°	176.8	175.8	175.0	175.8	187.1	206.7	213.3	197.3	167.3	152.4	148.7
122.5°	157.2	157.2	155.2	156.2	159.0	173.9	178.6	163.7	141.3	131.8	130.9
125°	138.4	138.4	136.6	135.6	134.7	142.1	144.0	132.9	116.9	114.0	113.2
127.5°	120.6	121.6	118.8	117.9	114.0	115.0	116.0	105.7	96.3	97.2	98.3
130°	105.7	105.7	102.9	100.9	95.4	90.6	88.8	82.3	78.5	82.3	85.1
132.5°	91.7	89.8	88.0	86.1	77.6	71.1	67.3	61.7	63.6	69.2	72.0
135°	76.7	75.7	72.9	72.0	63.6	53.3	46.8	44.9	50.5	57.1	58.9
137.5°	62.8	62.8	59.9	58.0	48.6	38.4	31.8	31.8	38.4	44.9	48.6
140°	49.6	49.6	46.8	44.9	36.5	26.2	19.6	20.5	28.1	34.6	37.3
142.5°	37.3	37.3	34.6	33.7	26.2	16.8	11.3	13.1	19.6	25.2	28.1
145°	27.1	26.2	24.4	23.4	16.8	10.3	5.6	7.4	12.1	16.8	19.6
147.5°	17.8	17.8	16.0	15.0	10.3	5.6	1.8	3.8	7.4	10.3	13.1
150°	10.3	10.3	9.4	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°	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5
2.5°	400.3	397.4	391.9	387.3	382.5	377.0	374.1	371.3	369.4	367.5	367.5
5°	405.9	400.3	389.9	379.6	370.4	361.9	354.4	348.9	346.1	344.1	343.2
7.5°	418.0	409.6	392.8	377.0	362.8	349.7	339.5	331.0	326.3	323.6	322.7
10°	434.0	421.8	400.3	378.8	360.1	343.2	329.2	318.9	312.4	309.5	307.7
12.5°	455.5	440.6	412.5	385.3	361.0	340.5	322.7	311.4	305.0	301.1	301.1
15°	488.2	468.6	434.0	397.4	367.5	342.3	322.7	310.6	305.8	304.0	302.9
17.5°	525.6	503.1	461.1	419.0	380.7	348.9	331.0	323.6	317.1	314.2	314.2
20°	566.7	539.6	491.0	443.3	400.3	367.5	347.9	335.8	328.4	325.5	324.5
22.5°	607.9	579.8	522.8	468.6	420.8	391.9	363.9	348.9	339.5	335.8	334.8
25°	654.7	623.8	556.4	495.7	449.8	417.2	384.4	362.8	350.7	346.1	345.2
27.5°	705.2	668.6	594.0	524.7	477.9	439.6	403.0	374.1	361.9	356.3	355.4
30°	757.6	717.3	631.3	554.6	505.0	459.2	420.8	388.1	372.2	365.7	364.7
32.5°	812.8	765.1	671.5	590.1	530.2	477.0	435.8	401.2	381.6	374.1	374.1
35°	874.5	819.3	710.8	622.9	553.6	494.7	448.9	413.3	389.9	382.5	382.5
37.5°	933.4	873.5	752.9	658.4	575.1	508.8	459.2	424.6	398.5	389.1	389.1
40°	996.0	927.7	793.1	687.5	594.0	520.0	468.6	433.0	405.0	396.5	394.7
42.5°	1056.9	982.0	836.2	717.3	609.7	529.4	476.1	440.6	410.6	400.3	399.4
45°	1120.5	1036.3	877.3	741.7	622.9	535.9	479.7	445.2	417.2	404.0	402.2
47.5°	1175.6	1087.6	917.4	763.1	633.1	539.6	482.6	448.9	420.8	405.9	404.0
50°	1230.8	1133.6	951.1	780.9	638.7	541.5	483.5	449.8	423.7	405.9	404.0
52.5°	1280.4	1176.5	980.2	793.1	641.6	540.7	482.6	449.8	424.6	404.0	402.2
55°	1321.5	1211.1	1000.7	800.6	641.6	537.8	479.7	448.0	423.7	402.2	399.4
57.5°	1352.4	1234.5	1014.8	802.4	636.9	532.2	475.1	445.2	420.8	398.5	394.7
60°	1371.1	1247.6	1019.4	797.8	629.5	525.6	469.5	441.4	418.0	392.8	389.9
62.5°	1376.6	1249.5	1014.8	788.5	619.2	516.2	461.1	434.9	412.5	386.2	383.5
65°	1367.4	1239.2	1001.7	773.4	605.1	505.0	452.7	427.4	405.9	378.8	376.0
67.5°	1342.1	1216.7	978.3	752.9	589.2	492.0	443.3	419.0	398.5	370.4	364.7
70°	1304.7	1183.1	948.4	727.6	570.6	477.9	432.1	408.7	388.1	361.0	355.4
72.5°	1250.5	1137.3	909.0	696.7	549.0	462.9	418.0	396.5	377.0	349.7	342.3
75°	1184.9	1078.4	862.3	665.0	526.5	445.2	404.0	383.5	363.9	336.7	330.2
77.5°	1112.0	1016.6	811.8	628.5	500.4	427.4	389.1	369.4	348.9	322.7	313.3
80°	1032.5	944.6	756.6	591.1	476.1	407.7	372.2	353.6	332.9	307.7	297.4
82.5°	946.5	869.8	701.5	553.6	448.9	388.1	355.4	336.7	315.2	290.8	280.6
85°	862.3	793.1	643.4	513.4	422.8	367.5	336.7	318.0	298.4	273.1	263.8
87.5°	775.3	715.4	586.4	474.1	396.5	347.9	318.9	299.3	278.7	255.3	247.8
90°	699.6	642.6	533.0	436.7	369.4	326.3	300.3	279.6	260.0	237.5	231.0
92.5°	619.2	572.4	480.7	401.2	344.1	305.8	281.6	261.9	240.4	218.8	214.1
95°	549.9	511.6	433.0	365.7	317.1	286.2	262.8	242.2	220.7	200.2	197.3
97.5°	483.5	451.7	386.2	332.9	293.7	265.6	243.2	223.6	201.0	182.4	180.5
100°	424.6	396.5	344.1	302.9	268.4	246.0	225.4	204.9	182.4	164.7	164.7
102.5°	370.4	348.9	306.8	272.2	246.0	224.4	205.7	185.2	162.7	147.7	148.7
105°	326.3	305.8	271.2	245.1	223.6	203.9	186.1	165.5	144.0	131.8	132.9
107.5°	284.3	268.4	240.4	217.9	201.0	185.2	166.5	146.9	125.3	117.9	118.8
110°	247.8	235.7	213.3	194.5	181.5	166.5	149.6	129.0	109.5	104.8	104.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	216.0	205.7	188.9	173.9	160.8	148.7	130.9	112.2	93.5	91.7	91.7
115°	188.9	181.5	165.5	153.4	144.0	131.8	116.0	96.3	81.4	80.5	81.4
117.5°	165.5	159.0	145.9	135.6	127.2	116.0	100.9	82.3	69.2	70.2	71.1
120°	145.0	140.3	129.0	120.6	112.2	101.9	86.1	69.2	60.7	61.7	61.7
122.5°	128.2	123.5	114.0	105.7	98.3	88.0	73.9	58.0	52.3	54.2	54.2
125°	111.3	108.5	99.1	91.7	84.1	73.9	60.7	47.7	44.9	46.8	46.8
127.5°	96.3	94.5	87.0	78.5	71.1	61.7	49.6	39.4	38.4	40.2	40.2
130°	83.2	81.4	74.9	67.3	58.9	50.5	38.4	31.8	32.8	34.6	35.5
132.5°	71.1	70.2	63.6	55.1	47.7	39.4	29.9	26.2	28.1	29.9	29.9
135°	58.9	58.0	53.3	45.8	37.3	29.9	22.4	20.5	23.4	25.2	25.2
137.5°	48.6	46.8	43.0	35.5	28.1	21.6	16.0	16.8	18.7	20.5	20.5
140°	38.4	37.3	33.7	27.1	19.6	13.9	11.3	13.1	16.0	16.8	16.8
142.5°	28.1	28.1	24.4	18.7	12.1	8.4	7.4	9.4	12.1	13.1	13.1
145°	19.6	19.6	16.8	12.1	7.4	3.8	3.8	6.5	8.4	9.4	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)