

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: P266511

Luminaire Tested: **UTLD-AF24-90-D-U-T2U-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-28)
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-T2U-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6454.2 lumens
Efficiency: N/A
Efficacy: 68.7 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): 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



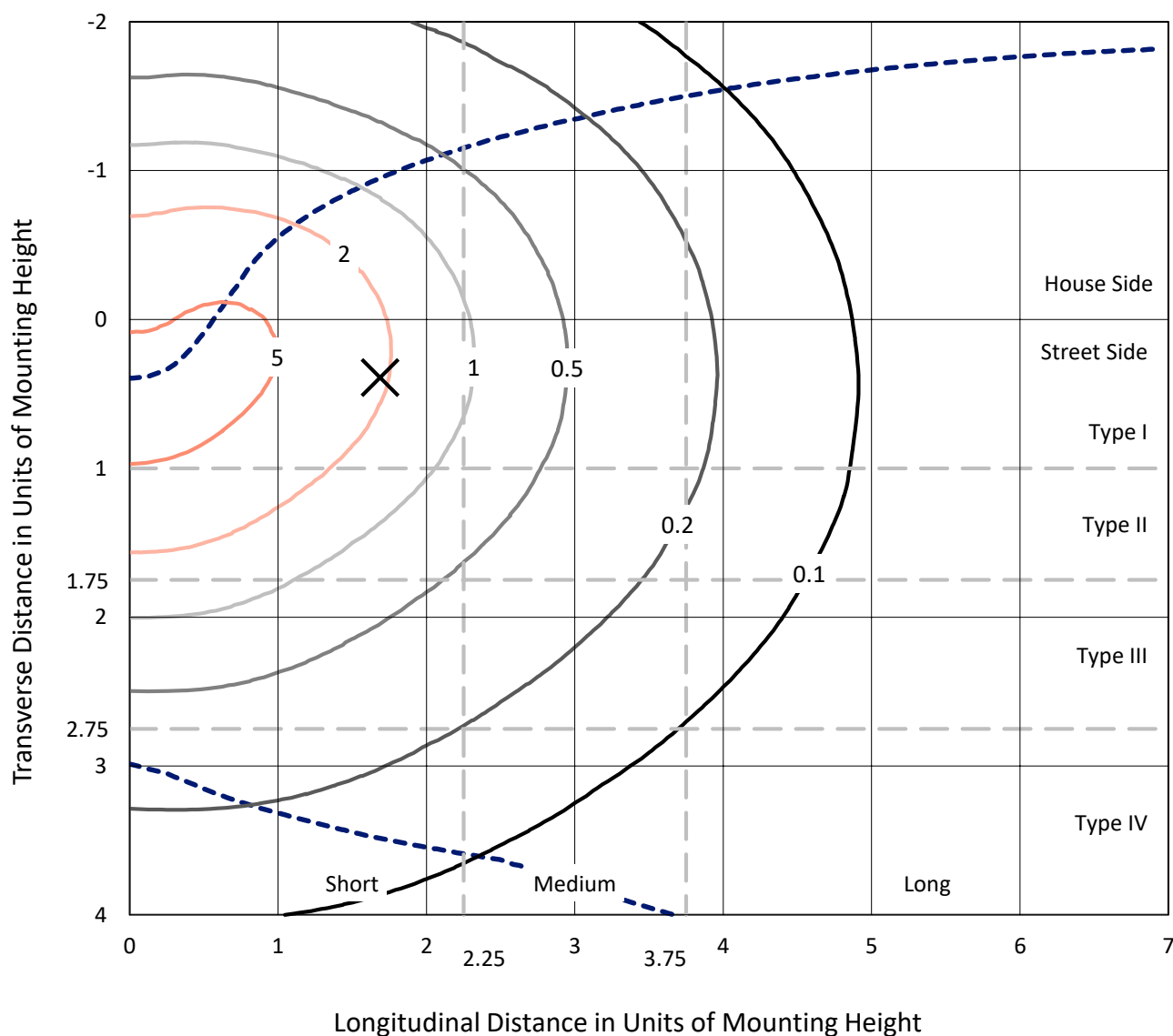
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

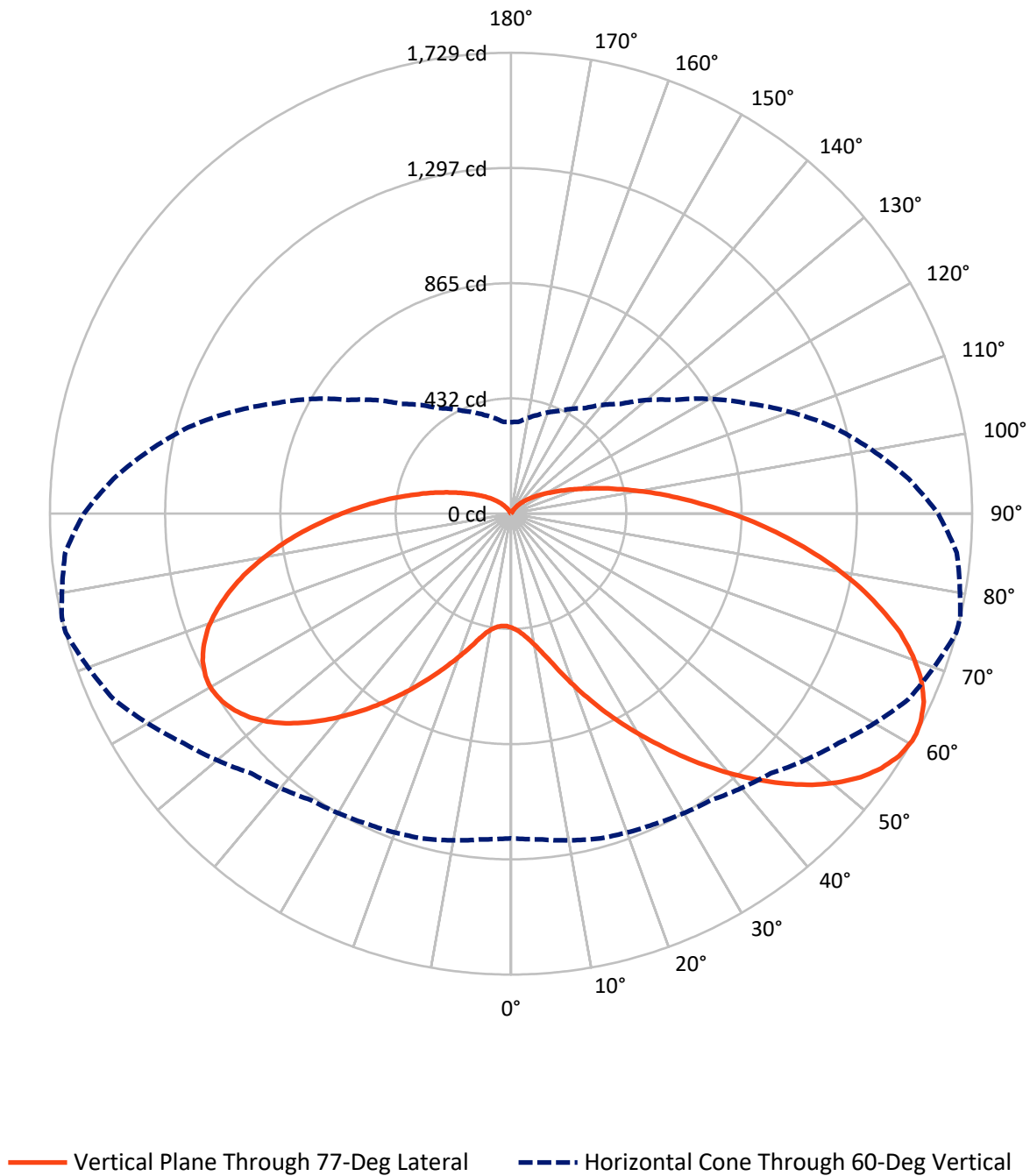


Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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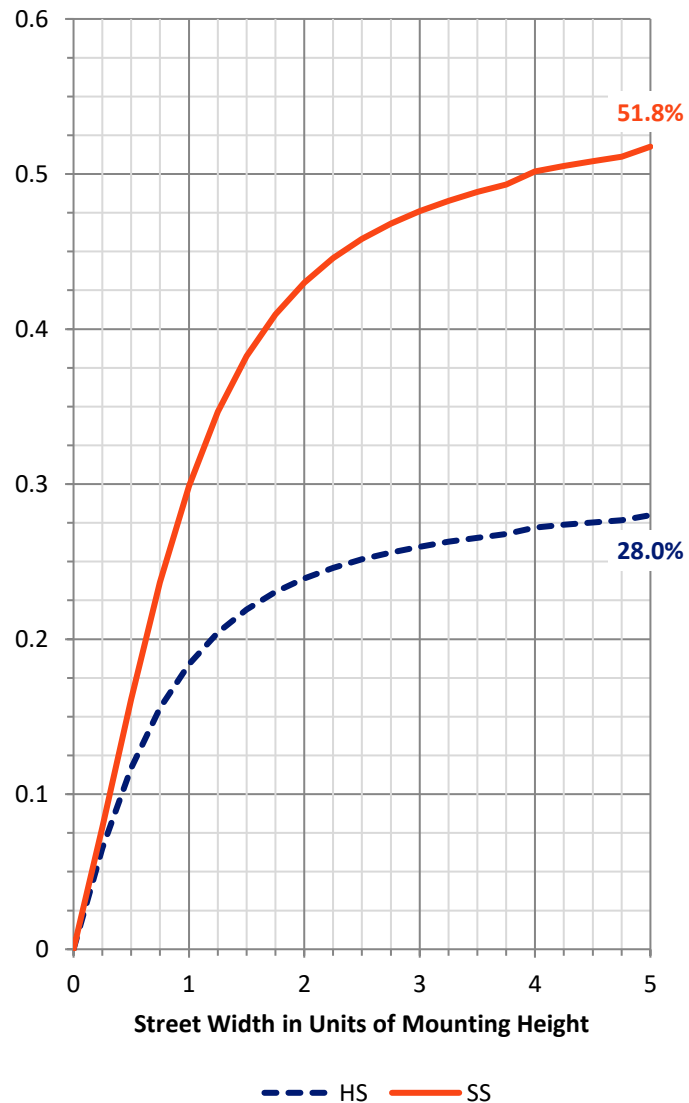
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1919.4	412.2	2331.6
	% Fixture	29.7	6.4	36.1
Street Side	Lumens	3540.8	581.8	4122.6
	% Fixture	54.9	9.0	63.9
Total	Lumens	5460.2	994.0	6454.2
	% Fixture	84.6	15.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	0.7
10°-20°	150.3	2.3
20°-30°	322.1	5.0
30°-40°	555.2	8.6
40°-50°	806.1	12.5
50°-60°	992.0	15.4
60°-70°	1027.8	15.9
70°-80°	896.1	13.9
80°-90°	668.0	10.3
90°-100°	441.6	6.8
100°-110°	269.5	4.2
110°-120°	154.4	2.4
120°-130°	81.6	1.3
130°-140°	36.1	0.6
140°-150°	10.1	0.2
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5460.2	84.6
0°-180°	6454.2	100.0

Coefficient of Utilization



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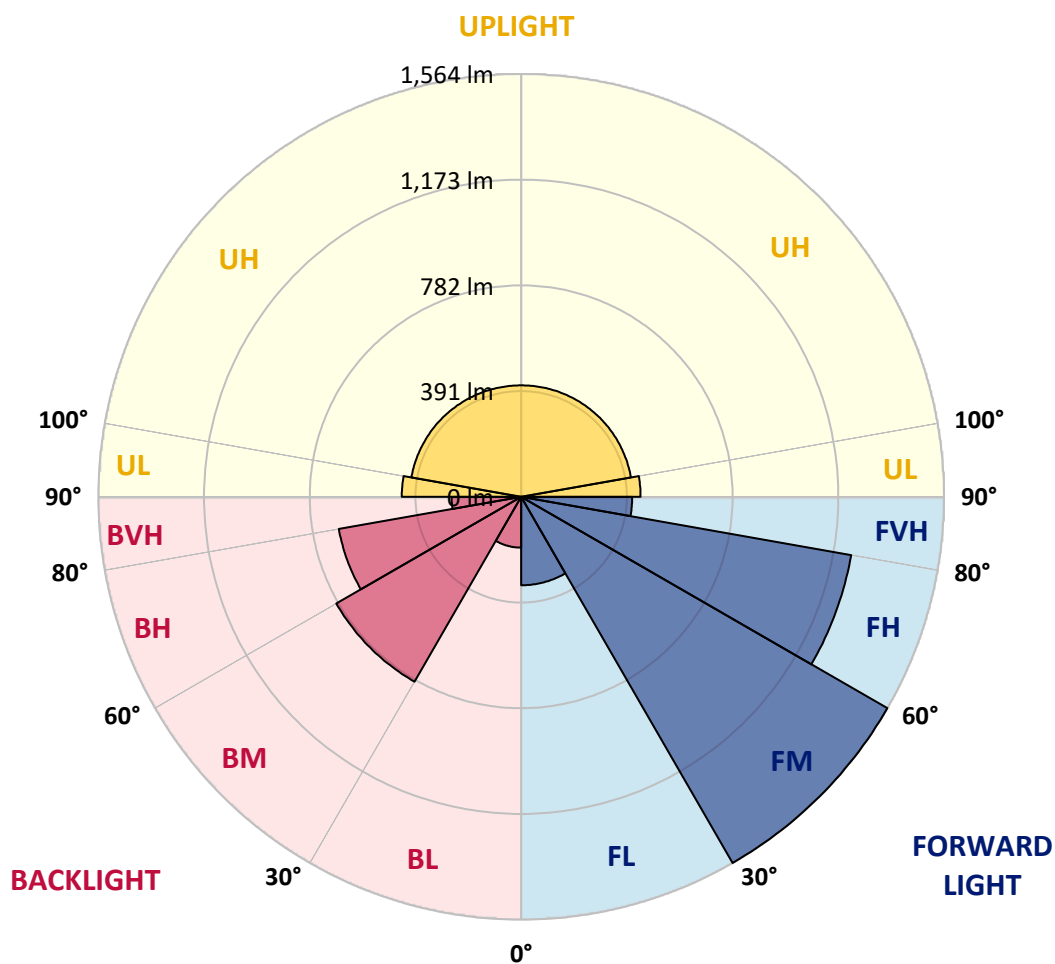
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	327.0	5.1			
FM	(30°-60°)	1563.7	24.2			
FH	(60°-80°)	1239.4	19.2			G1/1800
FVH	(80°-90°)	410.6	6.4			G3/500
BL	(0°-30°)	188.0	2.9	B1/500		
BM	(30°-60°)	789.5	12.2	B1/1000		
BH	(60°-80°)	684.6	10.6	B2/1000		G2/1000
BVH	(80°-90°)	257.4	4.0			G3/500
UL	(90°-100°)	441.6	6.8		U3/500	
UH	(100°-180°)	412.2	6.4		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°	75°	77°	85°
0°	428.4	428.4	428.4	428.4	428.4	428.4	428.4	428.4	428.4	428.4	428.4
2.5°	465.3	465.3	463.5	462.7	459.5	455.3	450.9	445.2	439.4	437.7	434.3
5°	505.6	505.6	503.8	499.6	493.8	486.3	477.0	467.7	456.1	453.6	444.3
7.5°	550.8	549.1	544.9	540.7	532.3	521.5	508.9	494.6	478.6	475.4	461.9
10°	596.0	596.0	591.9	585.2	575.2	560.8	545.8	528.2	507.3	503.1	485.4
12.5°	648.0	646.4	639.7	634.7	622.9	607.0	590.1	568.4	543.3	539.1	516.4
15°	703.4	702.6	696.6	685.8	672.3	657.3	639.7	616.1	589.4	582.6	557.5
17.5°	765.4	760.3	757.0	745.2	731.0	711.7	698.3	674.0	644.7	637.2	606.1
20°	822.4	823.2	815.8	805.6	792.2	778.8	759.5	737.8	705.9	695.8	660.7
22.5°	886.9	886.9	879.4	869.4	855.9	849.3	827.5	804.8	766.3	758.7	719.4
25°	954.0	951.6	943.9	934.7	928.0	919.7	899.6	872.8	833.3	825.7	781.3
27.5°	1016.1	1016.9	1007.7	1000.2	999.4	988.5	971.6	943.1	905.4	894.5	846.7
30°	1079.9	1080.7	1074.0	1064.8	1065.5	1058.8	1044.5	1015.3	979.2	966.5	915.5
32.5°	1143.5	1141.8	1132.7	1131.8	1129.2	1124.1	1113.3	1094.9	1055.5	1042.0	989.3
35°	1200.6	1200.6	1191.3	1194.7	1189.5	1188.7	1185.5	1171.2	1135.9	1122.5	1065.5
37.5°	1253.3	1252.4	1247.4	1248.3	1245.0	1244.2	1249.9	1248.3	1215.5	1204.6	1146.0
40°	1302.0	1297.0	1292.8	1296.1	1292.8	1297.7	1312.1	1322.0	1294.4	1286.1	1226.5
42.5°	1335.5	1333.9	1332.1	1337.9	1332.9	1344.8	1367.3	1391.7	1374.9	1366.5	1306.9
45°	1362.3	1359.0	1362.3	1368.2	1364.9	1379.8	1420.1	1457.1	1457.1	1445.4	1384.1
47.5°	1373.1	1372.4	1380.8	1385.7	1384.1	1408.5	1462.0	1518.2	1530.0	1520.7	1458.7
50°	1370.6	1370.6	1384.1	1391.7	1393.4	1425.3	1493.2	1566.9	1593.8	1586.1	1525.0
52.5°	1354.7	1354.7	1374.9	1384.1	1390.8	1431.0	1514.1	1608.0	1647.3	1643.1	1581.9
55°	1324.6	1323.7	1349.8	1361.6	1375.8	1425.3	1522.4	1634.7	1689.3	1685.8	1630.6
57.5°	1277.6	1279.2	1311.2	1329.6	1348.0	1406.7	1518.2	1648.2	1717.7	1716.1	1661.5
60°	1218.1	1226.5	1262.6	1283.5	1311.2	1377.5	1500.6	1645.7	1728.7	1729.4	1678.4
61°	1192.9	1201.4	1238.3	1263.3	1292.8	1363.2	1490.6	1640.7	1727.8	1729.4	1680.0
62.5°	1152.7	1157.7	1201.4	1231.5	1263.3	1337.1	1470.4	1627.2	1722.0	1724.4	1677.6
65°	1077.2	1086.5	1131.0	1168.7	1206.3	1286.8	1426.9	1592.9	1697.6	1701.7	1658.2
67.5°	994.2	1005.2	1056.2	1100.0	1143.5	1229.1	1373.1	1543.4	1654.0	1659.1	1621.4
70°	912.0	925.6	979.2	1022.8	1076.3	1164.5	1307.8	1479.7	1594.5	1599.5	1566.9
72.5°	828.2	843.4	898.8	949.0	1003.4	1093.1	1234.9	1404.2	1519.9	1526.6	1496.4
75°	744.4	763.6	815.8	873.5	928.0	1020.3	1159.4	1323.7	1428.6	1435.2	1411.7
77.5°	669.0	685.8	736.9	797.2	856.8	944.7	1077.2	1228.2	1337.1	1340.5	1319.5
80°	592.7	610.3	665.6	722.6	785.5	870.2	992.5	1131.8	1226.5	1235.7	1213.9
82.5°	524.8	542.3	594.4	656.4	716.8	798.1	906.2	1032.8	1116.7	1126.7	1111.7
85°	467.7	480.4	531.4	591.1	649.7	726.9	830.8	940.6	1016.1	1017.7	1002.7
87.5°	410.7	424.2	472.8	530.7	590.1	660.7	749.5	844.1	905.4	911.3	896.1
90°	363.9	372.2	418.3	475.4	533.1	597.7	674.8	758.7	808.1	808.1	796.3
92.5°	322.9	327.0	373.1	427.6	482.8	538.3	606.1	670.7	713.4	712.5	699.2
95°	285.0	290.1	328.6	381.4	435.0	486.3	541.6	592.7	624.5	626.3	610.3
97.5°	251.4	254.8	291.0	343.0	390.7	438.5	484.5	525.7	546.6	547.4	535.7
100°	224.7	224.7	259.0	305.2	351.2	394.0	433.4	464.5	473.6	472.8	462.7
102.5°	201.2	199.6	228.9	273.4	316.1	352.9	384.8	405.0	412.4	409.9	403.2
105°	178.6	180.2	202.8	244.8	283.3	316.1	340.4	357.2	357.2	355.5	348.7
107.5°	161.9	160.9	178.6	217.1	254.0	282.5	301.8	310.2	307.7	305.2	300.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	145.0	145.0	158.5	194.6	226.4	252.3	265.8	270.7	263.3	262.5	261.5
112.5°	130.8	130.8	141.8	171.8	202.1	223.9	234.7	235.5	227.2	226.4	227.2
115°	119.8	119.8	125.8	152.6	180.2	199.6	208.8	204.5	196.2	195.3	197.8
117.5°	109.0	109.0	114.1	133.3	159.3	176.8	182.7	176.8	169.3	169.3	172.7
120°	99.7	99.7	101.5	116.5	140.0	155.0	159.3	152.6	146.8	146.8	150.0
122.5°	91.4	90.5	91.4	101.5	120.7	134.9	136.6	130.8	126.7	127.4	132.5
125°	83.1	83.1	82.1	88.0	103.9	115.7	117.4	110.6	110.6	110.6	114.9
127.5°	75.5	75.5	73.8	76.3	88.0	98.1	98.1	93.1	94.7	96.4	99.7
130°	68.7	68.7	67.1	67.1	72.9	81.3	81.3	78.0	82.1	83.1	86.3
132.5°	62.1	61.3	59.5	57.0	59.5	64.6	64.6	63.7	70.3	71.2	73.8
135°	55.3	54.4	52.8	48.6	47.8	49.4	49.4	52.0	58.7	59.5	62.9
137.5°	47.8	47.8	45.3	41.1	36.0	36.0	36.0	41.1	47.8	49.4	51.2
140°	41.1	41.1	38.5	33.5	26.8	24.3	25.2	31.9	38.5	39.3	41.1
142.5°	33.5	33.5	31.0	26.1	19.3	14.3	15.9	22.6	28.4	30.2	31.9
145°	26.1	26.1	23.4	18.4	11.8	7.5	9.3	15.9	20.1	21.0	22.6
147.5°	19.3	19.3	16.8	12.5	6.6	2.5	5.0	9.3	13.5	14.3	15.9
150°	12.5	12.5	10.9	6.6	3.4	0.0	1.6	5.0	7.5	8.4	9.3
152.5°	6.6	6.6	5.0	3.4	0.9	0.0	0.0	1.6	3.4	3.4	4.2
155°	3.4	2.5	1.6	0.9	0.0	0.0	0.0	0.0	0.9	0.9	1.6
157.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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°	0.9	0.9	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°	428.4	428.4	428.4	428.4	428.4	428.4	428.4	428.4	428.4	428.4	428.4
2.5°	430.8	427.6	420.9	415.8	409.9	405.0	400.7	397.4	396.5	394.0	394.9
5°	438.5	432.5	420.0	409.1	397.4	387.3	378.9	373.1	368.8	367.1	365.5
7.5°	452.7	442.7	424.2	406.7	389.9	374.8	361.3	352.9	346.2	343.0	343.0
10°	472.8	460.2	434.3	410.7	387.3	367.1	350.3	337.0	328.6	324.5	325.2
12.5°	500.4	483.6	451.8	420.0	391.5	365.5	343.0	328.6	318.5	313.6	313.6
15°	539.9	521.5	478.6	437.7	399.0	367.1	343.0	327.0	319.3	316.1	315.2
17.5°	587.8	563.3	514.8	465.3	416.6	377.3	352.9	337.9	327.0	322.9	322.0
20°	636.3	608.6	551.6	496.4	441.7	399.0	369.7	349.6	335.3	329.5	328.6
22.5°	691.6	659.7	592.7	527.3	468.6	427.6	386.5	360.5	343.7	336.1	335.3
25°	748.6	713.4	637.9	564.1	504.7	455.3	407.4	371.4	351.2	342.1	341.1
27.5°	809.1	771.3	684.9	601.1	539.1	481.2	426.8	381.4	358.0	348.0	347.0
30°	876.0	830.8	736.0	643.8	573.4	505.6	445.2	393.2	364.7	352.9	351.2
32.5°	945.6	895.3	788.1	689.1	605.3	527.3	460.2	405.8	371.4	358.0	357.2
35°	1018.6	962.4	841.7	733.6	633.8	546.6	473.6	416.6	376.4	362.1	360.5
37.5°	1094.9	1032.8	897.9	775.4	661.4	563.3	484.5	425.8	381.4	364.7	362.9
40°	1171.2	1100.0	953.2	818.3	686.7	577.6	493.8	432.5	384.8	367.1	365.5
42.5°	1245.0	1172.0	1009.3	857.6	708.5	588.5	500.4	438.5	388.2	368.8	366.4
45°	1317.0	1240.7	1063.1	891.2	726.9	597.0	504.7	441.7	392.3	368.8	366.4
47.5°	1389.0	1305.2	1115.9	920.6	740.3	602.8	506.4	443.5	394.9	368.0	365.5
50°	1454.5	1363.2	1161.1	946.5	750.4	604.4	505.6	442.7	395.8	366.4	362.9
52.5°	1508.2	1414.3	1198.8	964.9	756.2	603.7	503.1	441.0	394.9	362.9	360.5
55°	1554.2	1453.6	1226.5	976.6	756.2	599.3	498.7	437.7	391.5	358.9	355.5
57.5°	1584.5	1483.0	1245.0	981.7	752.8	591.9	491.3	431.7	388.2	352.9	349.6
60°	1602.0	1497.2	1252.4	978.3	743.5	581.8	482.8	425.1	383.0	346.2	343.0
61°	1603.7	1498.9	1252.4	975.0	739.5	577.6	479.5	422.6	380.6	343.7	339.5
62.5°	1602.0	1497.2	1248.3	967.5	731.0	570.1	472.8	416.6	375.6	337.9	335.3
65°	1585.2	1481.3	1231.5	948.3	712.5	555.1	461.1	407.4	367.1	329.5	325.2
67.5°	1549.2	1449.4	1201.4	921.3	690.7	537.4	447.6	396.5	358.0	319.3	314.3
70°	1497.2	1402.6	1163.7	890.3	666.5	518.1	432.5	383.9	346.2	309.3	302.6
72.5°	1432.7	1345.5	1110.8	851.0	637.9	498.0	416.6	370.6	333.7	297.6	289.3
75°	1352.3	1272.5	1052.2	807.3	606.1	474.6	399.8	355.5	319.3	285.0	275.8
77.5°	1263.3	1192.1	988.5	759.5	574.2	451.8	381.4	338.8	304.3	270.7	261.5
80°	1166.1	1104.0	916.4	709.2	540.7	428.4	362.9	322.9	289.3	256.6	245.6
82.5°	1066.4	1011.0	844.1	658.1	504.7	404.1	343.0	305.2	272.5	241.5	229.6
85°	964.9	917.1	771.3	605.3	468.6	379.8	324.5	287.5	254.8	225.6	215.5
87.5°	864.3	823.2	696.6	555.1	435.9	356.3	305.2	269.9	238.1	209.6	199.6
90°	770.4	735.3	627.9	508.0	403.2	332.0	285.9	252.3	221.3	192.9	186.0
92.5°	681.5	651.5	561.7	458.6	370.6	308.5	266.5	233.9	202.8	176.8	172.7
95°	601.1	572.6	501.3	414.9	340.4	287.5	248.1	217.1	186.0	161.9	158.5
97.5°	522.3	504.7	445.2	373.1	311.1	264.9	229.6	200.3	170.1	147.5	145.9
100°	456.9	438.5	390.7	334.4	284.3	244.8	212.1	183.7	155.0	134.1	133.3
102.5°	397.4	384.8	344.6	301.8	258.3	223.0	194.6	167.7	140.0	121.6	121.6
105°	347.0	335.3	305.2	268.2	233.1	204.5	176.8	150.8	125.0	109.0	109.9
107.5°	299.2	291.7	266.5	237.2	209.6	185.3	160.1	134.9	109.9	97.2	98.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	260.7	253.2	233.9	212.1	188.6	167.7	144.2	119.8	95.6	88.0	88.0
112.5°	226.4	221.3	205.4	187.7	169.3	150.8	130.0	105.6	83.8	78.0	78.8
115°	197.8	193.7	180.2	166.8	151.8	135.9	115.7	92.3	72.9	70.3	70.3
117.5°	171.8	169.3	158.5	146.8	134.9	120.7	102.2	79.6	62.9	62.9	62.9
120°	150.0	147.5	139.1	129.0	119.0	106.4	88.0	67.9	55.3	55.3	56.1
122.5°	131.6	130.0	121.6	114.1	104.8	92.3	75.5	57.0	48.6	49.4	49.4
125°	114.9	113.1	107.3	99.0	90.5	78.8	63.7	46.9	42.0	43.6	43.6
127.5°	99.7	99.0	93.1	85.5	77.2	67.1	52.0	39.3	36.9	38.5	38.5
130°	87.1	86.3	80.5	72.9	65.3	54.4	42.0	32.7	31.9	33.5	33.5
132.5°	74.6	73.8	68.7	61.3	53.7	43.6	32.7	26.1	27.7	29.4	29.4
135°	62.9	62.1	58.7	50.2	43.6	34.3	25.2	21.7	23.4	25.2	25.2
137.5°	52.0	51.2	47.8	40.2	32.7	25.2	18.4	17.5	19.3	21.0	21.0
140°	42.0	41.1	37.6	31.0	23.4	17.5	12.5	14.3	15.9	17.5	17.5
142.5°	31.9	31.9	29.4	23.4	15.9	10.9	8.4	10.9	12.5	14.3	14.3
145°	23.4	23.4	20.1	15.9	9.3	5.8	5.0	7.5	10.1	10.9	10.9
147.5°	15.9	15.9	13.5	10.1	5.0	2.5	3.4	5.0	6.6	7.5	8.4
150°	9.3	9.3	7.5	5.0	2.5	0.9	0.9	3.4	4.2	5.0	5.0
152.5°	4.2	4.2	3.4	1.6	0.9	0.9	0.9	0.9	2.5	2.5	2.5
155°	1.6	1.6	1.6	0.9	0.9	0.9	0.9	0.0	0.9	0.9	0.9
157.5°	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.9	0.9	0.9	0.9	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)