

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: P240259

Luminaire Tested: **UTLD-AF24-80-D-U-SL3-FP-7030**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P240259  
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-AF24-80-D-U-SL3-FP-7030  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA 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: 6336 lumens  
Efficiency: N/A  
Efficacy: 76.3 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

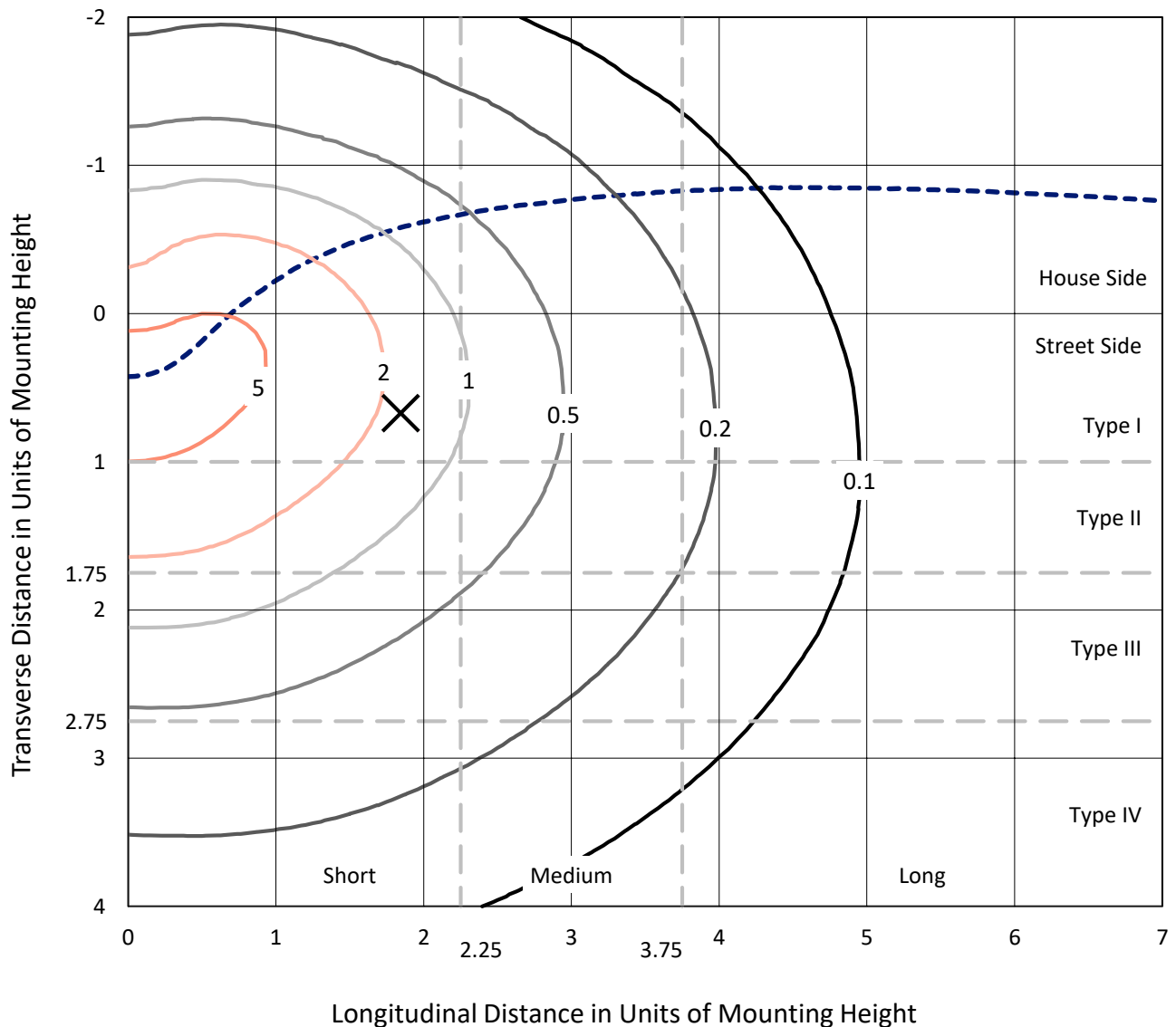
Input Watts (W): 83  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

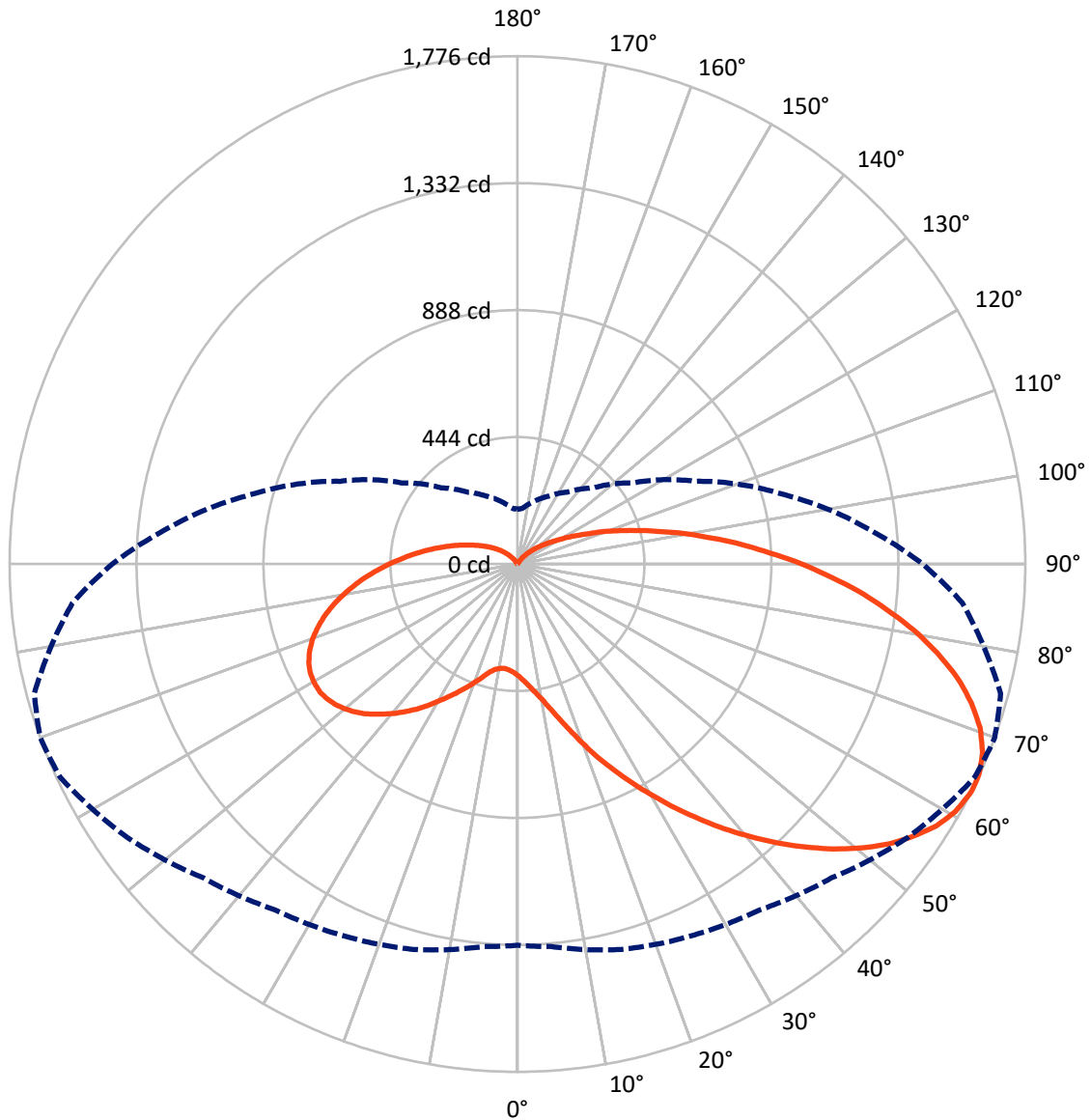
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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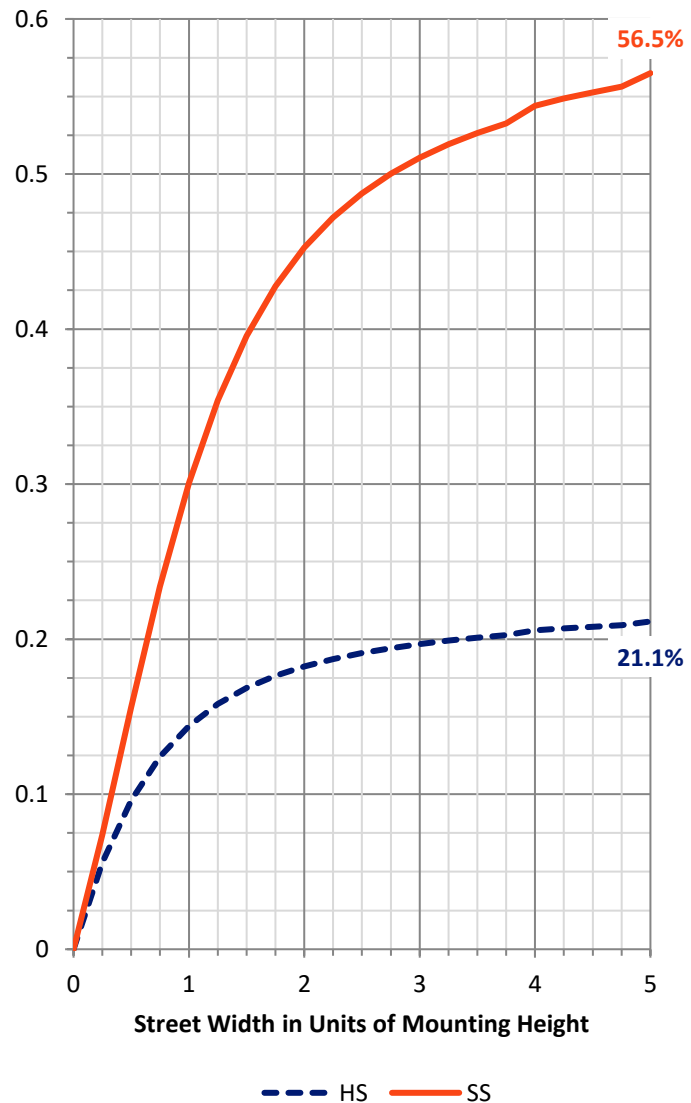
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1423.1	344.4	1767.4
	% Fixture	22.5	5.4	27.9
<b>Street Side</b>	Lumens	3846.6	721.9	4568.5
	% Fixture	60.7	11.4	72.1
<b>Total</b>	Lumens	5269.7	1066.3	6336.0
	% Fixture	83.2	16.8	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.8	0.6
10°-20°	135.4	2.1
20°-30°	287.6	4.5
30°-40°	495.8	7.8
40°-50°	731.5	11.5
50°-60°	931.0	14.7
60°-70°	1010.6	15.9
70°-80°	924.1	14.6
80°-90°	714.9	11.3
90°-100°	481.7	7.6
100°-110°	293.1	4.6
110°-120°	164.2	2.6
120°-130°	83.6	1.3
130°-140°	34.6	0.5
140°-150°	8.6	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5269.7	83.2
0°-180°	6336.0	100.0

**Coefficient of Utilization**



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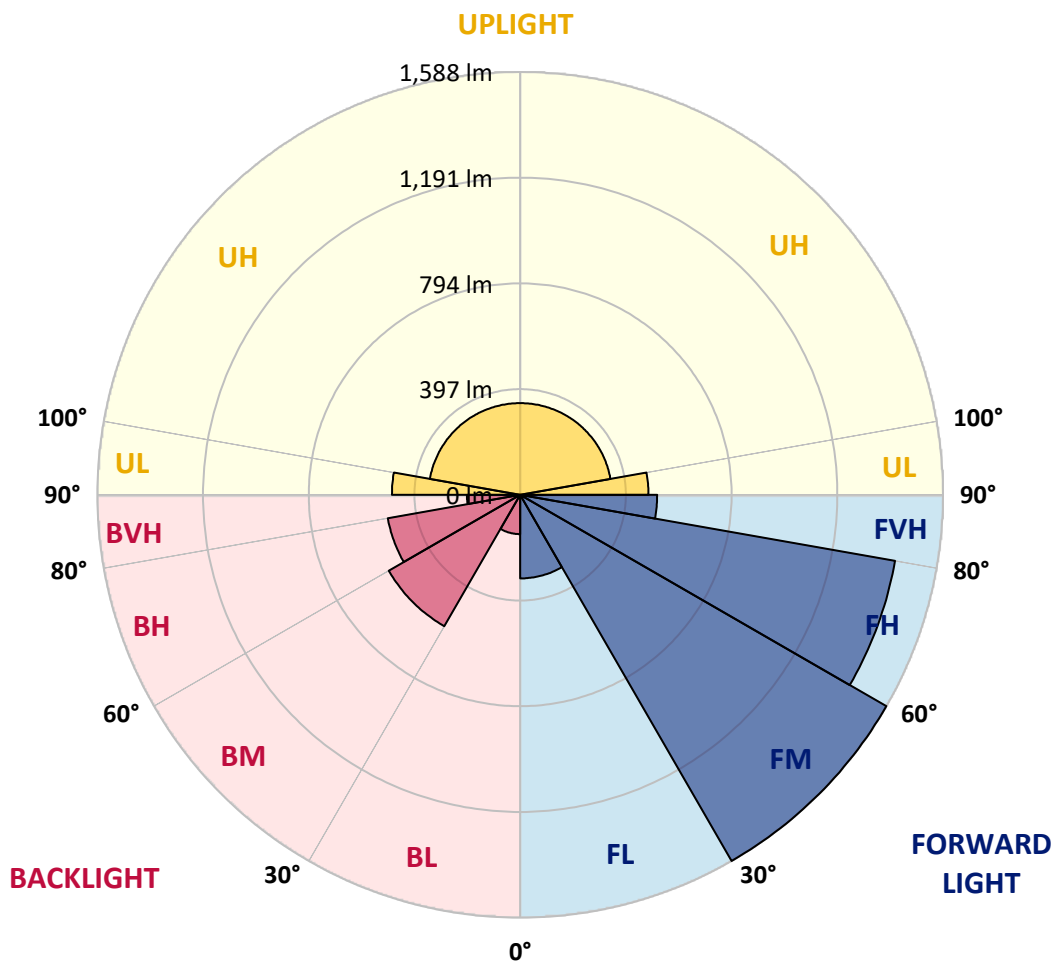
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	313.9	5.0			
FM (30°-60°)	1588.3	25.1			
FH (60°-80°)	1429.7	22.6			G1/1800
FVH (80°-90°)	514.6	8.1			G4/750
BL (0°-30°)	147.8	2.3	B1/500		
BM (30°-60°)	570.1	9.0	B1/1000		
BH (60°-80°)	505.0	8.0	B2/1000		G2/1000
BVH (80°-90°)	200.3	3.2			G2/225
UL (90°-100°)	481.7	7.6		U3/500	
UH (100°-180°)	344.4	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°	390.9	390.9	390.9	390.9	390.9	390.9	390.9	390.9	390.9	390.9	390.9
2.5°	435.8	435.0	434.1	429.7	428.0	422.0	416.9	410.7	407.3	403.8	396.9
5°	481.5	479.7	477.3	472.9	465.1	456.4	446.1	434.1	428.0	421.0	407.3
7.5°	526.4	525.5	524.7	516.0	508.3	494.5	479.7	462.5	453.9	442.7	422.0
10°	575.6	577.3	572.1	564.4	551.4	536.8	517.8	494.5	483.3	471.1	443.6
12.5°	631.6	630.8	626.5	613.5	599.8	583.3	560.1	535.1	522.0	505.7	470.3
15°	688.7	685.2	680.0	671.4	654.1	635.2	610.1	581.6	566.9	548.8	509.1
17.5°	748.2	745.5	742.1	727.4	712.8	689.5	668.7	637.7	619.6	599.8	554.1
20°	807.8	806.0	801.6	790.5	772.4	751.6	731.8	698.9	678.3	654.1	602.3
22.5°	870.7	869.8	865.6	852.6	837.9	825.0	799.9	762.8	743.0	713.7	653.3
25°	935.4	936.3	928.4	916.4	906.1	894.0	868.1	829.3	805.1	774.8	706.7
27.5°	1005.3	1001.9	996.7	985.5	976.9	963.0	936.3	896.6	873.3	840.5	764.6
30°	1070.0	1070.8	1059.7	1052.8	1046.7	1033.8	1008.8	968.2	942.4	912.1	825.0
32.5°	1139.9	1136.6	1128.7	1121.8	1117.5	1103.7	1080.3	1045.1	1019.2	981.1	886.2
35°	1201.2	1200.3	1191.7	1193.4	1182.1	1171.0	1153.8	1121.0	1094.2	1057.9	954.4
37.5°	1264.2	1262.5	1256.5	1258.1	1245.2	1236.6	1225.4	1196.9	1174.4	1137.4	1025.2
40°	1323.7	1319.5	1315.2	1317.6	1308.2	1302.2	1296.2	1276.2	1252.9	1214.2	1095.1
42.5°	1372.1	1371.2	1368.6	1373.0	1363.4	1361.7	1365.2	1354.9	1334.0	1294.4	1165.8
45°	1413.5	1413.5	1417.0	1419.5	1410.9	1413.5	1430.8	1428.1	1411.7	1372.1	1239.2
47.5°	1446.3	1445.4	1454.0	1457.5	1453.1	1462.7	1491.2	1503.2	1489.4	1452.3	1307.4
50°	1465.2	1465.2	1480.8	1485.2	1485.9	1504.1	1543.9	1570.5	1561.1	1525.7	1372.1
52.5°	1470.4	1472.2	1493.7	1503.2	1506.6	1535.2	1589.5	1630.0	1626.7	1593.0	1430.8
55°	1461.8	1464.4	1492.9	1507.6	1517.9	1557.6	1625.8	1682.7	1680.1	1649.0	1479.1
57.5°	1437.7	1441.1	1477.3	1498.9	1517.9	1569.7	1652.5	1724.1	1727.6	1698.2	1520.5
60°	1399.7	1404.0	1448.0	1476.5	1505.8	1568.9	1666.3	1750.9	1758.6	1728.5	1548.1
62.5°	1347.0	1352.2	1403.1	1442.9	1482.5	1556.7	1667.2	1763.9	1774.2	1747.5	1561.1
63°	1333.2	1342.7	1395.4	1435.0	1476.5	1552.5	1666.3	1764.6	1775.9	1749.1	1561.9
65°	1279.8	1290.2	1350.5	1397.1	1447.1	1532.6	1654.3	1760.3	1774.2	1748.2	1557.6
67.5°	1204.7	1218.5	1282.2	1339.3	1403.1	1497.2	1627.5	1738.9	1754.3	1729.3	1538.6
70°	1119.3	1138.2	1205.5	1276.2	1347.0	1449.8	1586.1	1701.7	1716.4	1690.5	1500.6
72.5°	1032.9	1053.6	1127.0	1203.0	1282.2	1391.1	1528.2	1645.7	1659.4	1637.0	1448.0
75°	945.7	961.3	1037.2	1125.3	1211.5	1322.9	1464.4	1574.0	1589.5	1562.7	1382.4
77.5°	853.5	875.0	953.5	1042.5	1134.7	1252.9	1388.4	1492.1	1501.5	1474.8	1297.9
80°	762.8	787.0	863.8	959.7	1057.1	1171.0	1300.4	1401.4	1406.6	1378.1	1207.2
82.5°	683.4	706.0	784.4	876.7	975.1	1091.6	1209.8	1296.2	1299.5	1272.9	1113.2
85°	606.6	626.5	701.6	796.5	895.7	1003.5	1116.6	1190.0	1194.3	1162.4	1013.9
87.5°	537.5	553.2	625.6	720.6	817.1	923.4	1017.4	1078.7	1079.5	1048.5	915.6
90°	478.1	487.6	558.4	651.5	743.0	837.9	926.0	979.4	972.5	939.7	813.8
92.5°	420.2	428.0	492.8	583.3	673.9	759.4	836.2	870.7	862.9	834.4	723.2
95°	373.6	377.1	436.6	522.0	603.2	684.3	749.8	774.8	767.1	737.0	633.3
97.5°	326.1	331.4	385.6	463.4	541.9	615.2	668.7	685.2	670.6	641.2	554.8
100°	290.8	292.5	338.2	412.5	486.6	550.5	592.8	603.2	587.7	560.9	483.3
102.5°	258.1	257.2	298.6	367.6	434.1	487.6	523.8	523.0	506.5	483.3	419.3
105°	229.6	228.7	260.6	324.5	384.0	431.5	458.3	454.7	438.3	415.9	365.0
107.5°	202.7	204.6	227.8	283.8	337.4	379.6	399.6	391.8	377.1	356.4	316.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	182.9	182.9	201.0	249.4	298.6	333.1	348.6	337.4	323.6	302.8	273.5
112.5°	164.9	164.9	177.8	217.4	262.3	293.4	303.7	289.1	272.7	258.8	237.3
115°	148.4	148.4	157.0	189.0	228.7	254.6	260.6	245.1	231.3	220.9	207.1
117.5°	134.6	134.6	139.8	162.2	197.6	221.8	225.2	207.9	198.6	188.2	180.4
120°	121.8	122.6	124.2	139.0	168.3	189.0	190.6	174.3	166.5	161.3	157.0
122.5°	110.5	110.5	111.3	119.9	143.2	160.5	160.5	146.7	141.5	139.8	136.3
125°	100.1	100.1	100.1	103.6	119.1	132.9	131.2	122.6	119.9	119.9	118.2
127.5°	90.5	89.7	88.8	89.7	97.5	107.0	107.0	100.9	100.9	101.8	102.7
130°	81.1	80.3	78.5	76.8	77.7	84.5	83.7	82.0	83.7	86.4	88.1
132.5°	71.7	71.7	69.1	64.7	62.2	63.8	64.7	65.5	68.2	71.7	74.2
135°	62.2	62.2	59.5	53.5	48.3	47.4	46.6	51.0	55.1	58.7	61.3
137.5°	52.7	52.7	50.0	43.1	36.3	32.8	31.9	38.8	43.1	46.6	49.1
140°	44.0	43.1	40.5	33.7	25.9	20.8	20.8	27.7	31.9	35.4	38.8
142.5°	34.5	34.5	31.9	25.9	17.3	12.1	12.9	19.0	22.4	25.0	27.7
145°	25.9	25.9	23.3	17.3	10.4	6.0	6.9	12.1	14.6	17.3	19.8
147.5°	18.1	18.1	15.6	11.3	5.1	1.7	3.5	6.9	8.6	10.4	12.1
150°	11.3	11.3	9.5	6.0	2.6	0.0	0.9	3.5	4.3	5.1	6.9
152.5°	6.0	6.0	4.3	2.6	0.9	0.0	0.0	0.9	1.7	2.6	3.5
155°	2.6	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.9	0.9
157.5°	0.9	0.9	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°	390.9	390.9	390.9	390.9	390.9	390.9	390.9	390.9	390.9	390.9	390.9
2.5°	393.6	390.0	382.3	375.5	369.3	363.3	358.2	353.8	352.9	350.4	351.2
5°	399.6	392.7	377.9	365.0	351.2	340.1	331.4	323.6	317.5	315.0	314.1
7.5°	411.6	400.4	377.9	357.3	338.2	321.0	306.4	295.1	288.2	283.8	284.7
10°	428.9	414.2	384.0	355.5	328.8	305.5	286.5	272.7	262.3	258.1	258.1
12.5°	451.4	434.1	395.2	358.2	324.5	295.1	271.0	253.7	244.2	238.1	238.1
15°	487.6	462.5	414.2	366.8	324.5	289.1	262.3	243.3	234.7	230.4	229.6
17.5°	526.4	498.8	441.0	384.0	332.2	288.2	261.4	245.1	234.7	229.6	229.6
20°	568.7	535.9	469.5	403.8	345.2	298.6	268.3	248.6	235.6	228.7	227.8
22.5°	614.4	578.2	499.7	424.6	360.7	315.9	277.0	251.1	235.6	228.7	227.8
25°	665.3	621.3	530.7	447.9	381.5	331.4	287.4	254.6	235.6	226.9	226.0
27.5°	717.1	667.9	565.2	470.3	402.9	346.1	296.8	257.2	235.6	226.0	225.2
30°	773.2	714.5	598.8	496.1	422.9	359.0	304.7	259.7	235.6	225.2	224.3
32.5°	828.4	765.5	635.2	525.5	441.9	369.3	311.5	265.0	236.4	224.3	222.7
35°	889.7	819.8	673.9	554.8	459.1	378.8	317.5	268.3	235.6	222.7	221.8
37.5°	953.5	873.3	709.3	580.7	472.9	385.6	321.0	271.0	235.6	221.8	220.0
40°	1017.4	927.6	747.4	606.6	485.8	391.8	324.5	273.5	234.7	220.0	218.3
42.5°	1079.5	981.1	784.4	628.2	496.1	396.1	326.1	275.3	234.7	218.3	216.6
45°	1143.4	1035.6	823.3	648.9	503.9	397.8	326.1	275.3	235.6	216.6	214.9
47.5°	1204.7	1086.5	858.7	665.3	510.0	398.7	326.1	275.3	235.6	214.9	212.3
50°	1259.0	1133.0	888.0	679.1	513.4	398.7	325.4	275.3	235.6	212.3	209.7
52.5°	1311.6	1173.6	915.6	688.7	515.1	396.9	323.6	273.5	235.6	209.7	207.1
55°	1353.9	1209.8	934.6	694.7	513.4	394.3	320.1	271.8	234.7	207.1	203.7
57.5°	1387.6	1235.7	949.3	696.4	510.0	390.0	316.8	269.3	232.9	203.7	201.0
60°	1409.1	1250.4	953.5	692.9	504.8	384.0	312.4	266.6	230.4	200.2	196.7
62.5°	1417.0	1255.6	951.8	686.0	497.0	377.9	308.1	263.2	227.8	195.9	192.4
63°	1417.0	1254.8	951.0	684.3	494.5	376.3	307.2	262.3	226.9	195.0	191.5
65°	1411.7	1247.8	942.4	673.9	486.6	370.2	302.8	258.8	225.2	192.4	188.2
67.5°	1390.3	1229.7	922.4	658.4	473.7	361.5	296.0	253.7	220.9	188.2	183.8
70°	1355.7	1198.6	895.7	637.7	460.0	352.1	289.1	248.6	216.6	183.8	178.6
72.5°	1304.8	1155.4	862.0	613.5	443.6	341.8	281.4	242.4	210.6	178.6	172.6
75°	1241.7	1102.9	822.4	585.9	427.2	329.6	273.5	235.6	204.6	173.5	165.6
77.5°	1167.6	1041.6	776.7	557.4	408.2	317.5	264.1	227.8	198.6	168.3	158.8
80°	1084.7	969.0	727.4	525.5	388.3	304.7	254.6	220.0	189.9	161.3	151.9
82.5°	1001.9	896.6	675.7	492.8	368.4	291.7	244.2	211.4	182.0	154.5	145.0
85°	912.1	820.6	624.8	459.1	347.8	277.0	233.9	201.9	174.3	147.6	137.2
87.5°	825.8	743.8	568.7	426.3	327.9	264.1	223.6	192.4	164.9	139.0	131.2
90°	742.1	670.6	520.4	392.7	306.4	249.4	212.3	182.0	155.3	130.3	124.2
92.5°	661.0	596.3	467.7	361.5	286.5	235.6	200.2	171.7	145.9	122.6	117.4
95°	585.1	531.5	423.7	330.5	267.4	221.8	189.0	162.2	135.5	113.1	109.6
97.5°	513.4	470.3	380.6	303.7	246.8	207.9	176.9	151.0	125.1	104.5	102.7
100°	453.0	415.9	340.1	276.1	228.7	194.2	165.6	139.8	114.7	95.8	95.8
102.5°	396.1	363.3	302.0	250.2	210.6	179.5	152.8	128.6	104.5	88.1	88.1
105°	346.1	319.2	270.1	226.9	193.3	165.6	140.6	117.4	93.2	80.3	80.3
107.5°	300.4	279.6	240.0	205.4	176.0	151.0	128.6	105.3	82.0	72.4	73.3



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	263.2	246.8	213.2	183.8	159.6	139.0	117.4	94.1	71.7	65.5	65.5
112.5°	227.8	214.9	188.2	165.6	145.0	125.9	105.3	82.8	63.1	59.5	59.5
115°	199.3	189.0	166.5	147.6	130.3	113.1	93.2	71.7	54.4	52.7	53.5
117.5°	174.3	165.6	148.4	132.9	117.4	100.9	82.8	61.3	47.4	47.4	47.4
120°	151.9	145.9	130.3	117.4	104.5	88.8	71.7	51.8	41.4	41.4	42.3
122.5°	133.8	127.8	116.5	103.6	91.4	77.7	61.3	43.1	36.3	37.1	38.0
125°	115.6	112.2	101.8	90.5	79.4	65.5	51.0	35.4	31.9	32.8	33.7
127.5°	100.9	98.4	88.1	78.5	68.2	55.1	41.4	28.5	26.8	28.5	29.4
130°	86.4	84.5	76.8	67.3	57.0	45.8	32.8	23.3	23.3	25.0	25.0
132.5°	73.3	71.7	64.7	55.1	46.6	35.4	25.0	19.0	19.8	21.6	21.6
135°	61.3	59.5	53.5	45.8	36.3	26.8	19.0	15.6	17.3	18.1	18.1
137.5°	50.0	48.3	43.1	35.4	26.8	19.0	13.7	12.1	13.7	15.6	15.6
140°	38.0	38.0	33.7	26.8	19.0	12.9	9.5	9.5	11.3	12.1	12.1
142.5°	28.5	27.7	25.0	19.0	12.1	7.7	6.0	6.9	8.6	9.5	9.5
145°	19.8	19.0	17.3	12.9	6.9	4.3	3.5	5.1	6.0	6.9	6.9
147.5°	12.9	12.1	11.3	7.7	3.5	1.7	1.7	3.5	4.3	5.1	5.1
150°	6.9	6.9	6.0	3.5	1.7	0.0	0.9	1.7	2.6	2.6	2.6
152.5°	3.5	3.5	2.6	1.7	0.9	0.0	0.0	0.0	0.9	0.9	0.9
155°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.9	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	0.9	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)