

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: P240151

Luminaire Tested: **UTLD-AF24-80-D-U-T3-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-25)
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-T3-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6565.4 lumens
Efficiency: N/A
Efficacy: 79.1 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): 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



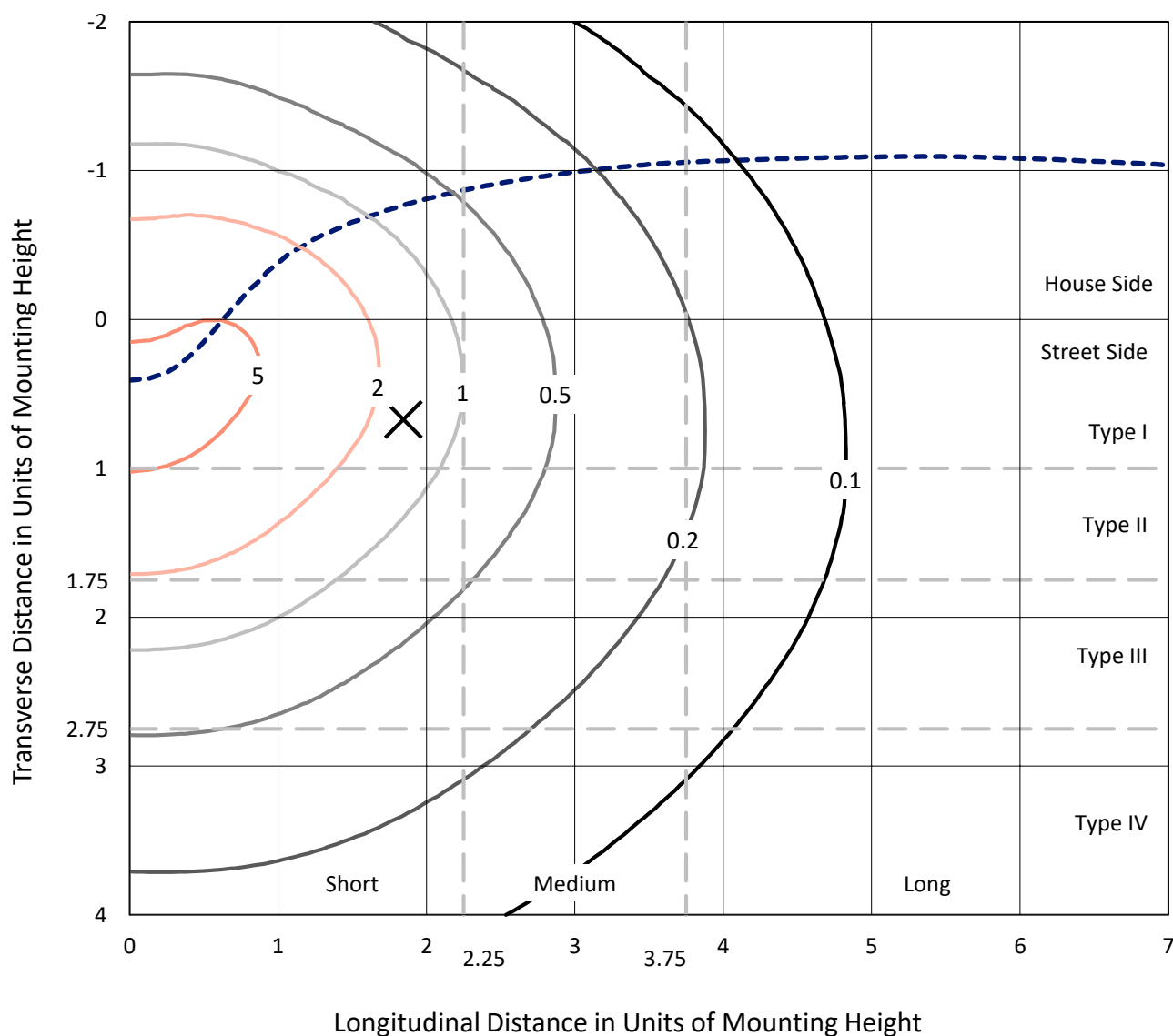
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

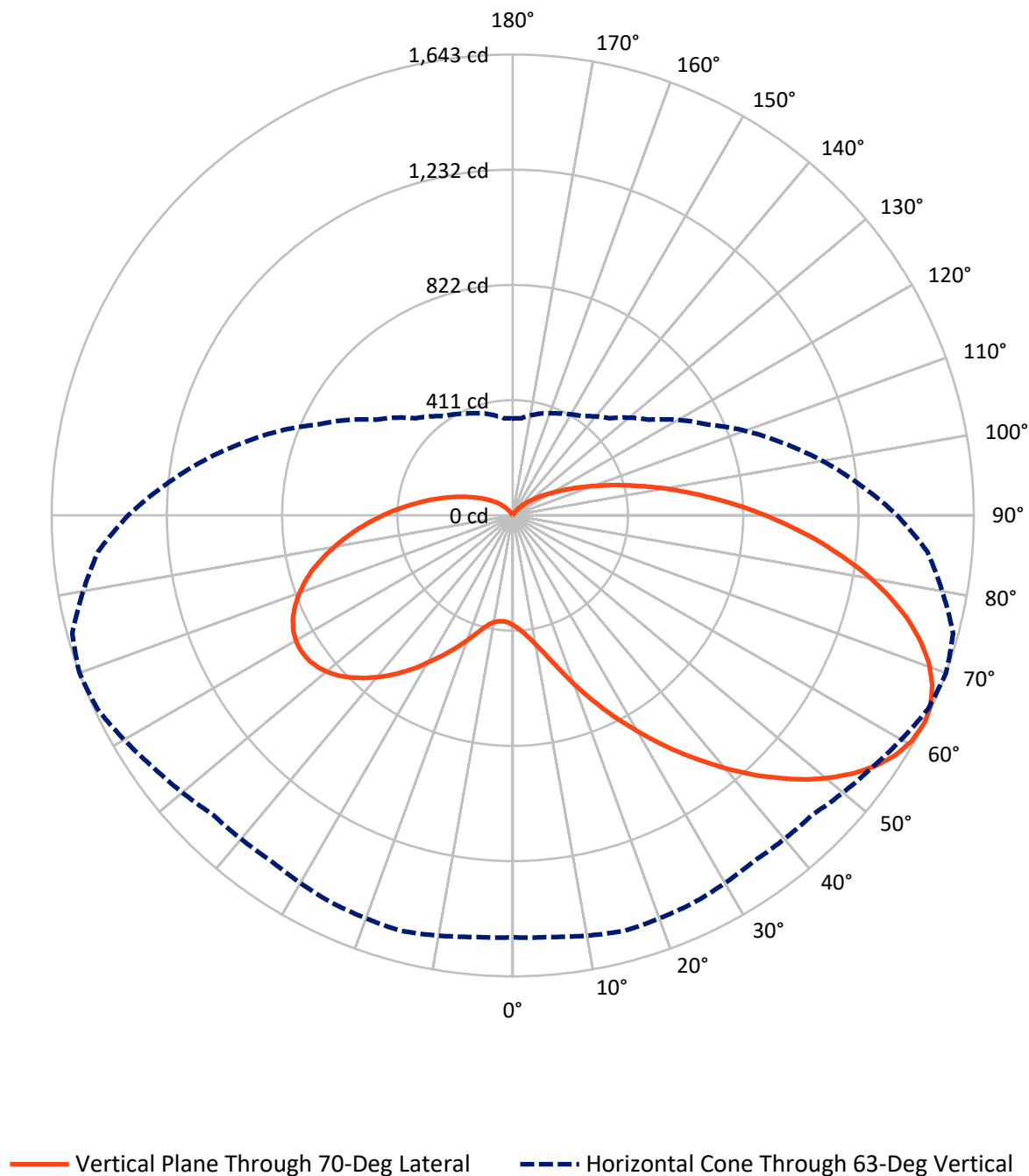


Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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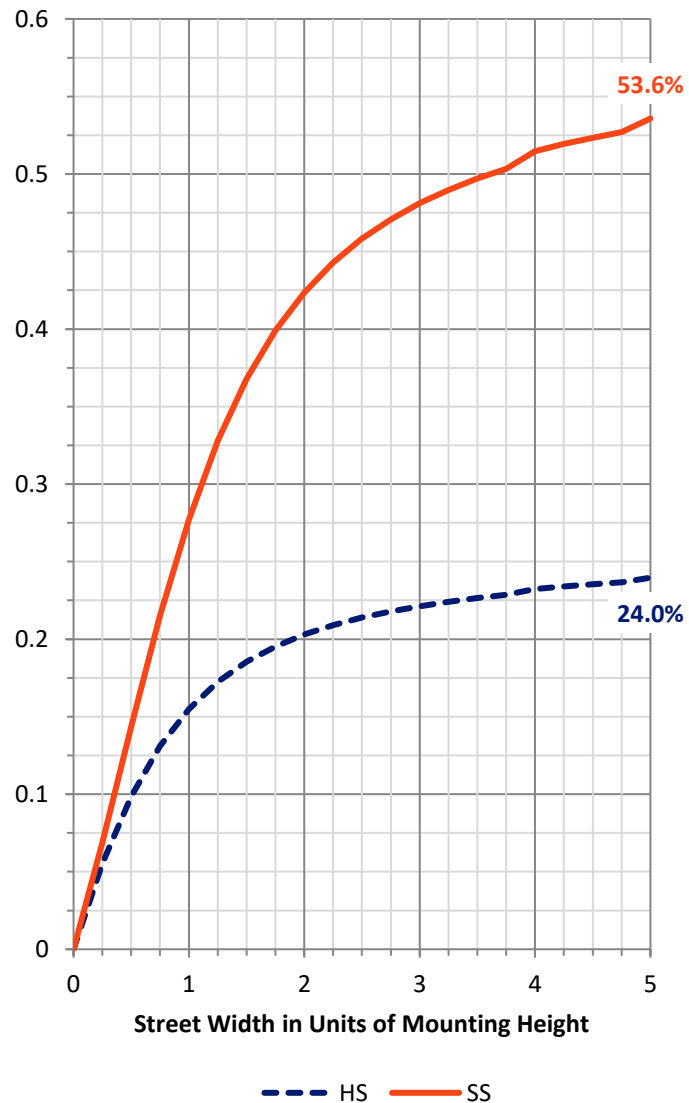
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1678.2	379.9	2058.0
	% Fixture	25.6	5.8	31.3
Street Side	Lumens	3793.6	713.7	4507.4
	% Fixture	57.8	10.9	68.7
Total	Lumens	5471.8	1093.6	6565.4
	% Fixture	83.3	16.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.9	0.6
10°-20°	137.0	2.1
20°-30°	294.2	4.5
30°-40°	512.7	7.8
40°-50°	761.9	11.6
50°-60°	972.9	14.8
60°-70°	1054.8	16.1
70°-80°	960.5	14.6
80°-90°	738.9	11.3
90°-100°	495.6	7.5
100°-110°	300.4	4.6
110°-120°	167.7	2.6
120°-130°	85.1	1.3
130°-140°	35.3	0.5
140°-150°	9.0	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5471.8	83.3
0°-180°	6565.4	100.0

Coefficient of Utilization



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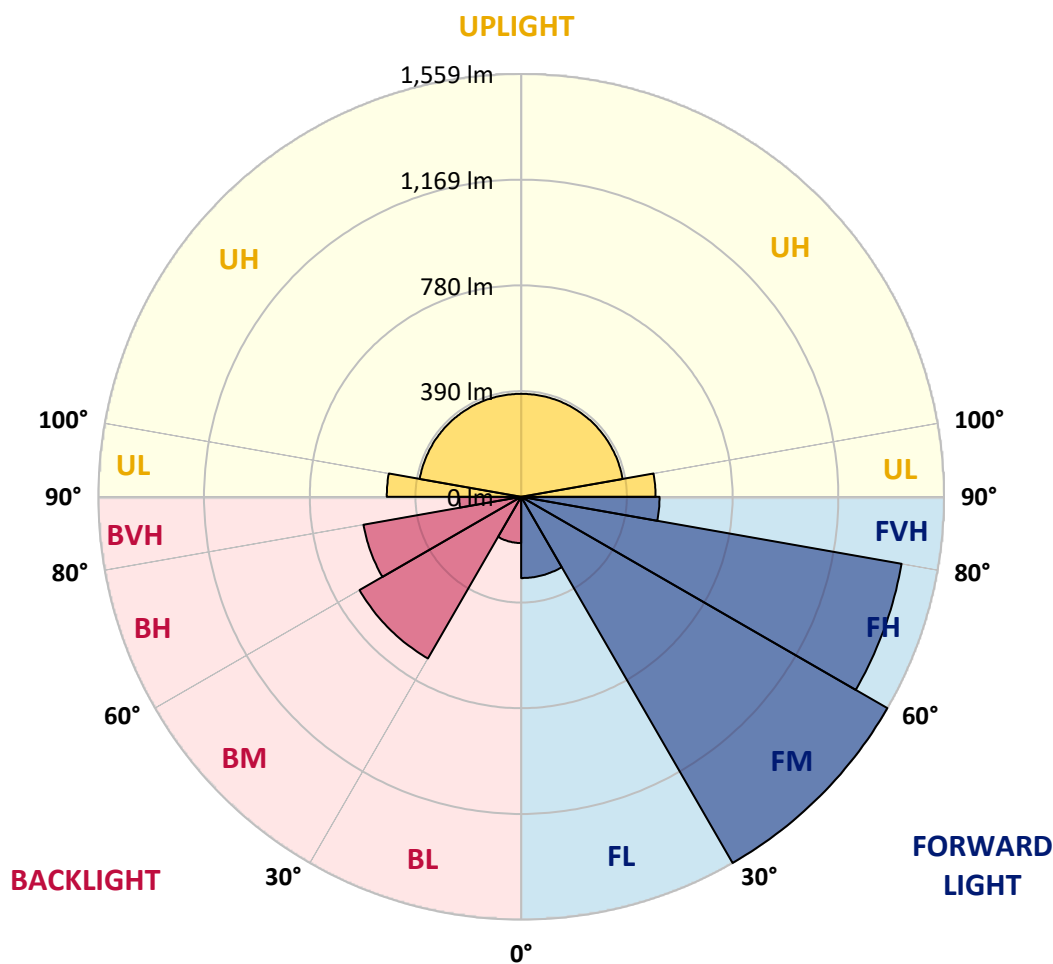
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	299.7	4.6			
FM	(30°-60°)	1559.3	23.8			
FH	(60°-80°)	1424.5	21.7			G1/1800
FVH	(80°-90°)	510.2	7.8			G4/750
BL	(0°-30°)	170.5	2.6	B1/500		
BM	(30°-60°)	688.2	10.5	B1/1000		
BH	(60°-80°)	590.7	9.0	B2/1000		G2/1000
BVH	(80°-90°)	228.7	3.5			G3/500
UL	(90°-100°)	495.6	7.5		U3/500	
UH	(100°-180°)	379.9	5.8		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°	391.8	391.8	391.8	391.8	391.8	391.8	391.8	391.8	391.8	391.8	391.8
2.5°	423.7	423.7	422.9	422.0	419.4	415.9	410.9	407.3	403.8	401.3	396.1
5°	460.0	461.7	458.3	456.4	450.4	443.6	435.8	426.3	422.0	415.9	405.6
7.5°	498.8	500.5	497.0	492.8	485.0	474.6	462.5	450.4	442.7	435.0	419.4
10°	541.9	542.8	538.5	533.3	523.8	510.9	497.9	479.7	471.1	460.8	440.1
12.5°	590.2	588.6	585.1	576.5	565.2	551.4	534.2	516.0	504.0	491.8	466.0
15°	645.5	644.6	638.6	628.2	614.5	598.8	578.2	558.4	546.3	533.3	502.3
17.5°	703.3	701.6	695.6	683.4	668.7	649.0	633.3	610.1	595.5	581.6	546.3
20°	761.1	760.2	756.0	742.2	725.7	710.1	689.5	665.4	650.6	631.7	591.1
22.5°	827.5	825.0	818.2	806.0	792.2	776.7	755.1	724.9	708.4	690.4	642.0
25°	894.1	893.2	884.6	871.6	860.4	843.2	822.4	787.0	770.6	745.5	693.8
27.5°	963.0	961.4	952.7	938.9	930.3	913.9	888.0	853.5	833.6	809.5	751.6
30°	1034.6	1033.8	1023.4	1009.7	1000.2	984.7	957.8	920.7	901.0	874.2	809.5
32.5°	1106.4	1106.4	1096.0	1083.9	1072.7	1052.8	1027.8	992.4	970.9	942.4	869.8
35°	1181.4	1177.0	1169.3	1158.0	1140.0	1120.1	1097.7	1065.8	1043.3	1012.3	935.5
37.5°	1252.1	1252.1	1239.2	1229.7	1209.8	1187.4	1166.7	1140.0	1115.0	1084.7	999.2
40°	1322.0	1322.9	1310.8	1298.8	1272.9	1252.1	1234.1	1212.4	1190.1	1158.9	1069.2
42.5°	1389.3	1387.6	1376.4	1362.6	1334.2	1310.8	1299.6	1281.5	1265.1	1232.3	1136.6
45°	1451.5	1447.1	1438.5	1422.1	1389.3	1366.1	1361.7	1353.1	1335.9	1306.5	1204.7
47.5°	1499.8	1497.3	1493.8	1472.2	1438.5	1416.1	1416.1	1419.6	1406.6	1376.4	1268.5
50°	1539.6	1538.7	1537.0	1512.8	1476.5	1459.2	1466.1	1478.3	1469.6	1442.9	1325.6
52.5°	1566.2	1565.3	1568.0	1543.0	1507.6	1492.1	1508.5	1532.6	1525.7	1501.5	1379.8
55°	1576.6	1576.6	1584.4	1561.1	1525.7	1513.7	1540.3	1574.0	1573.3	1551.6	1421.3
57.5°	1572.4	1573.3	1587.0	1565.3	1532.6	1525.7	1561.1	1606.8	1610.3	1588.7	1455.8
60°	1552.5	1553.3	1572.4	1556.0	1527.5	1525.7	1570.6	1626.7	1633.5	1614.7	1475.6
62.5°	1514.5	1517.9	1541.2	1530.9	1507.6	1513.7	1567.1	1632.8	1642.1	1624.1	1483.4
63°	1504.2	1508.5	1533.5	1523.9	1502.5	1509.3	1564.6	1632.8	1643.0	1624.9	1483.4
65°	1461.9	1467.1	1495.5	1491.2	1475.6	1488.6	1549.9	1623.3	1636.1	1619.8	1475.6
67.5°	1393.7	1404.1	1436.9	1440.2	1432.5	1452.4	1519.7	1599.1	1612.8	1597.4	1452.4
70°	1311.6	1323.7	1366.1	1376.4	1374.7	1404.1	1475.6	1558.5	1573.3	1557.6	1412.6
72.5°	1223.7	1240.1	1278.9	1301.4	1312.5	1344.6	1421.3	1503.3	1517.9	1501.5	1360.1
75°	1127.9	1145.1	1193.4	1221.1	1238.4	1278.0	1353.9	1436.0	1448.9	1436.0	1293.6
77.5°	1032.1	1049.3	1098.6	1133.9	1160.7	1208.2	1283.2	1358.3	1367.8	1353.9	1215.9
80°	933.7	953.7	1001.1	1042.5	1078.7	1126.1	1198.7	1266.9	1278.0	1259.9	1132.3
82.5°	836.2	853.5	907.0	955.3	994.1	1041.6	1110.6	1174.5	1179.7	1161.5	1039.8
85°	748.2	762.8	815.5	867.3	913.0	959.7	1023.4	1074.3	1082.1	1058.8	948.4
87.5°	665.4	676.6	731.8	782.8	829.3	881.0	938.0	978.6	978.6	960.5	852.7
90°	588.6	596.3	646.4	702.4	752.5	798.2	851.7	886.3	881.9	859.6	762.8
92.5°	514.3	523.8	572.9	626.5	677.4	724.9	768.0	791.4	785.2	762.0	676.6
95°	453.1	457.4	505.7	560.9	607.5	650.6	688.7	705.0	695.6	672.3	591.1
97.5°	396.9	400.4	442.7	495.4	545.4	585.1	611.0	621.3	611.9	588.6	521.2
100°	351.3	352.1	390.0	441.0	487.7	522.0	545.4	545.4	536.8	513.4	452.3
102.5°	306.4	308.1	339.1	390.0	434.1	464.3	482.4	480.6	465.1	441.9	392.7
105°	270.1	271.8	296.0	345.2	384.9	412.5	427.2	416.9	402.2	381.5	340.1
107.5°	238.1	239.1	258.1	302.0	340.1	365.9	373.6	362.4	346.1	326.2	296.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	213.2	212.3	226.9	265.0	301.2	322.8	327.0	313.2	296.8	280.5	256.3
112.5°	189.0	189.0	198.6	230.4	264.1	284.7	286.5	266.7	252.8	238.1	222.7
115°	169.2	168.3	175.2	200.2	231.3	248.6	246.8	228.7	215.8	203.7	193.3
117.5°	151.9	150.1	155.3	172.6	201.0	217.4	213.2	192.4	182.9	174.3	168.3
120°	136.3	135.5	138.1	150.1	172.6	185.5	181.3	163.2	154.5	150.1	146.7
122.5°	122.6	122.6	121.8	129.5	146.7	157.0	151.0	136.3	131.2	128.6	128.6
125°	110.5	110.5	108.7	111.3	122.6	131.2	125.9	113.9	110.5	110.5	111.3
127.5°	98.4	98.4	96.7	95.8	100.9	107.0	100.9	94.1	93.2	94.1	95.8
130°	87.2	86.4	84.5	81.1	82.0	84.5	80.3	76.8	77.7	80.3	82.0
132.5°	76.8	75.9	73.3	68.2	64.7	64.7	61.3	61.3	63.8	66.4	69.9
135°	66.4	65.5	63.1	57.0	51.0	47.4	44.9	48.3	51.8	54.4	57.8
137.5°	56.0	55.1	51.8	45.8	38.0	32.8	31.9	37.1	40.5	44.0	46.7
140°	45.8	44.9	41.4	35.4	26.8	20.8	20.8	27.7	31.0	33.7	37.1
142.5°	36.3	35.4	32.8	25.9	17.3	12.9	13.7	19.8	22.4	25.0	27.7
145°	26.8	26.8	24.1	18.1	10.4	6.0	7.7	12.9	15.6	17.3	19.8
147.5°	18.1	18.1	15.6	11.3	6.0	2.6	3.5	7.7	9.5	11.3	12.9
150°	11.3	11.3	9.5	6.0	2.6	0.0	1.7	3.5	5.1	6.0	7.7
152.5°	6.0	6.0	4.3	2.6	0.9	0.0	0.0	1.7	1.7	2.6	3.5
155°	2.6	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9
157.5°	0.9	0.0	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°	391.8	391.8	391.8	391.8	391.8	391.8	391.8	391.8	391.8	391.8	391.8
2.5°	393.6	390.9	384.9	380.6	375.5	371.1	368.5	364.2	361.5	362.4	361.5
5°	400.4	395.2	384.0	374.5	364.2	355.5	348.6	342.6	339.1	336.5	337.4
7.5°	411.6	403.8	387.5	371.9	356.4	343.5	333.1	325.4	318.4	316.8	315.9
10°	428.9	418.6	395.2	374.5	354.6	336.5	322.8	311.5	304.7	301.2	301.2
12.5°	453.1	438.3	409.0	381.5	356.4	334.0	316.8	302.8	295.1	291.7	290.8
15°	486.7	468.6	432.3	395.2	363.3	336.5	315.9	302.0	296.0	294.2	293.4
17.5°	525.5	505.7	460.8	417.7	377.2	343.5	323.6	312.4	305.5	302.0	301.2
20°	569.6	543.7	492.8	442.7	396.9	361.5	339.1	323.6	315.0	310.7	309.8
22.5°	614.5	585.9	527.2	469.5	419.4	386.6	354.6	335.7	323.6	318.4	316.8
25°	662.7	630.9	562.6	497.9	447.0	409.9	373.6	346.1	332.2	326.2	326.2
27.5°	714.5	677.4	599.8	527.2	475.5	431.5	391.8	357.3	340.9	334.0	333.1
30°	768.8	727.4	637.7	559.2	502.3	451.4	407.3	369.3	349.5	341.8	340.9
32.5°	827.5	780.1	680.0	593.8	527.2	469.5	421.0	380.6	357.3	347.8	346.9
35°	885.4	831.9	719.7	627.3	549.7	485.0	432.3	391.8	363.3	353.8	352.9
37.5°	949.3	887.0	762.0	660.2	570.5	497.0	441.9	400.4	369.3	359.0	357.3
40°	1010.5	941.5	801.8	689.5	587.7	508.3	449.6	408.2	374.5	363.3	361.5
42.5°	1071.0	996.8	841.4	717.1	602.3	515.1	454.7	413.3	379.6	366.8	364.2
45°	1131.4	1048.5	881.9	739.5	613.6	521.2	458.3	417.7	384.0	368.5	366.8
47.5°	1187.4	1099.3	919.1	759.4	621.3	523.8	460.0	419.4	387.5	369.3	366.8
50°	1240.9	1143.4	950.1	774.1	626.5	523.8	460.0	420.2	389.2	369.3	367.6
52.5°	1287.5	1181.4	975.1	783.6	627.3	521.2	457.4	419.4	389.2	367.6	365.0
55°	1322.9	1212.4	993.2	787.9	624.8	516.9	453.1	416.9	388.3	365.0	362.4
57.5°	1351.4	1234.1	1004.5	787.0	618.7	510.0	447.9	413.3	385.8	360.7	358.2
60°	1368.7	1245.2	1006.2	780.9	610.1	501.4	441.0	408.2	382.3	356.4	352.9
62.5°	1371.2	1244.4	1000.2	768.8	597.2	491.0	432.3	401.3	376.3	349.5	346.1
63°	1370.3	1243.5	996.8	766.4	594.6	489.3	431.5	400.4	375.5	347.8	345.2
65°	1361.0	1233.2	983.8	752.5	582.5	479.0	423.7	393.6	370.2	342.6	338.2
67.5°	1335.9	1209.8	959.7	729.2	564.4	465.1	412.5	384.9	361.5	334.0	329.6
70°	1297.9	1177.0	926.8	703.3	545.4	450.4	400.4	373.6	352.1	324.5	319.2
72.5°	1246.9	1129.6	888.9	673.1	523.0	434.1	386.6	361.5	340.1	314.1	306.4
75°	1185.7	1074.3	846.5	640.4	498.8	416.9	372.8	349.5	327.9	302.0	294.2
77.5°	1112.4	1011.4	793.9	605.9	475.5	398.7	357.3	334.9	314.1	288.2	280.5
80°	1033.8	941.5	741.4	566.9	449.6	379.6	341.8	319.2	298.6	274.5	265.0
82.5°	951.0	866.4	685.2	529.9	423.7	359.9	325.4	302.8	283.1	259.7	251.1
85°	867.3	791.4	630.9	492.8	396.9	340.9	308.1	287.4	265.8	243.3	234.7
87.5°	784.5	718.0	578.2	453.9	371.9	321.9	290.8	270.1	248.6	226.9	220.0
90°	705.0	647.3	523.0	417.7	346.1	301.2	273.5	252.8	232.1	210.6	203.7
92.5°	625.6	575.6	472.9	384.9	321.9	282.2	256.3	235.6	214.0	193.3	189.0
95°	554.9	511.8	425.4	349.5	298.6	264.1	239.1	219.2	196.7	176.9	174.3
97.5°	488.4	451.4	378.8	319.2	275.4	244.2	221.8	201.0	178.6	160.5	158.8
100°	428.9	398.7	339.1	288.2	252.0	226.0	205.4	184.6	162.2	146.7	145.0
102.5°	374.5	350.4	302.0	260.6	231.3	207.9	187.3	167.3	145.9	131.9	131.9
105°	327.9	306.4	267.4	234.7	209.7	189.0	170.0	150.1	128.6	117.4	117.4
107.5°	284.0	269.3	237.3	209.7	189.9	171.7	153.6	133.8	113.1	104.5	105.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	247.7	235.6	208.8	188.2	171.7	155.3	138.1	118.2	98.4	92.4	93.2
112.5°	215.8	206.3	183.8	167.3	153.6	139.9	122.6	102.7	85.4	82.0	82.8
115°	188.2	180.4	163.2	148.5	137.2	124.2	108.7	88.9	74.2	72.4	72.4
117.5°	164.0	157.9	143.2	131.9	121.8	110.5	94.9	76.8	63.8	63.8	63.8
120°	144.1	139.0	126.8	116.5	107.8	96.7	82.0	64.7	55.1	56.0	56.0
122.5°	125.1	121.8	110.5	102.7	94.1	84.5	69.9	53.5	47.4	49.1	50.0
125°	109.6	106.1	97.6	88.9	81.1	71.7	57.8	44.9	41.4	43.1	43.1
127.5°	94.1	92.4	84.5	76.8	69.9	60.4	47.4	37.1	36.3	38.0	38.0
130°	81.1	79.4	73.3	64.7	57.8	49.1	38.0	30.1	30.1	31.9	31.9
132.5°	69.1	68.2	62.2	54.4	47.4	38.8	30.1	24.1	25.9	27.7	27.7
135°	57.0	57.0	51.8	44.0	37.1	29.4	22.4	19.8	21.6	23.3	23.3
137.5°	46.7	45.8	41.4	34.5	27.7	21.6	16.4	15.6	18.1	19.8	19.8
140°	37.1	36.3	32.8	26.8	19.8	14.6	11.3	12.1	14.6	15.6	16.4
142.5°	27.7	27.7	24.1	19.8	12.9	8.6	6.9	9.5	11.3	12.1	12.9
145°	19.8	19.8	17.3	12.9	7.7	4.3	4.3	6.9	8.6	9.5	9.5
147.5°	12.9	12.9	11.3	7.7	4.3	1.7	2.6	4.3	6.0	6.9	6.9
150°	7.7	6.9	6.0	3.5	1.7	0.0	0.9	1.7	3.5	4.3	3.5
152.5°	3.5	3.5	2.6	1.7	0.9	0.0	0.0	0.0	0.9	1.7	1.7
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	0.0	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)