

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: P240039

Luminaire Tested: **UTLD-AF24-40-D-U-SL3-A-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-17)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-40-D-U-SL3-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3434 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

Input Watts (W): 40
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

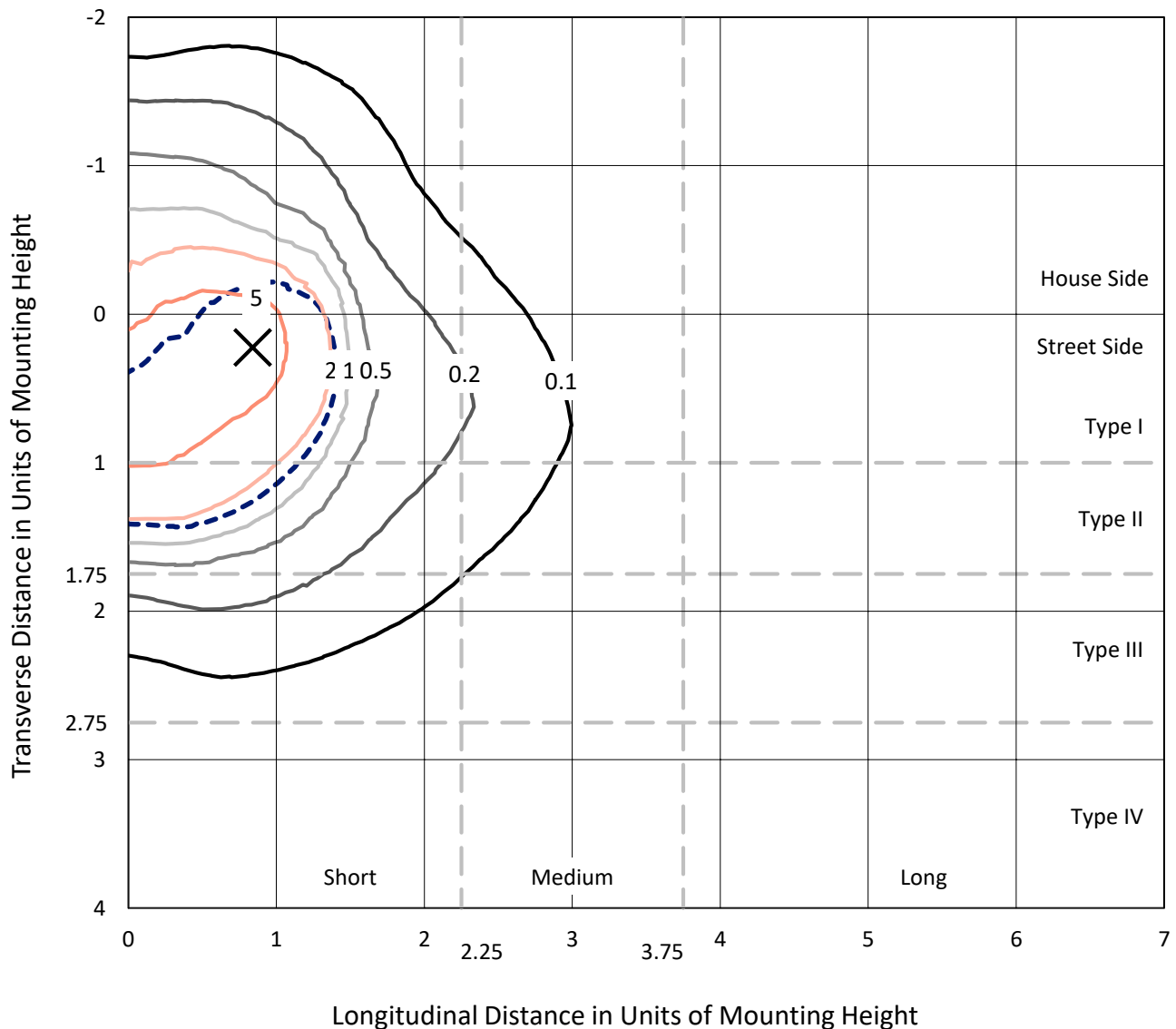


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

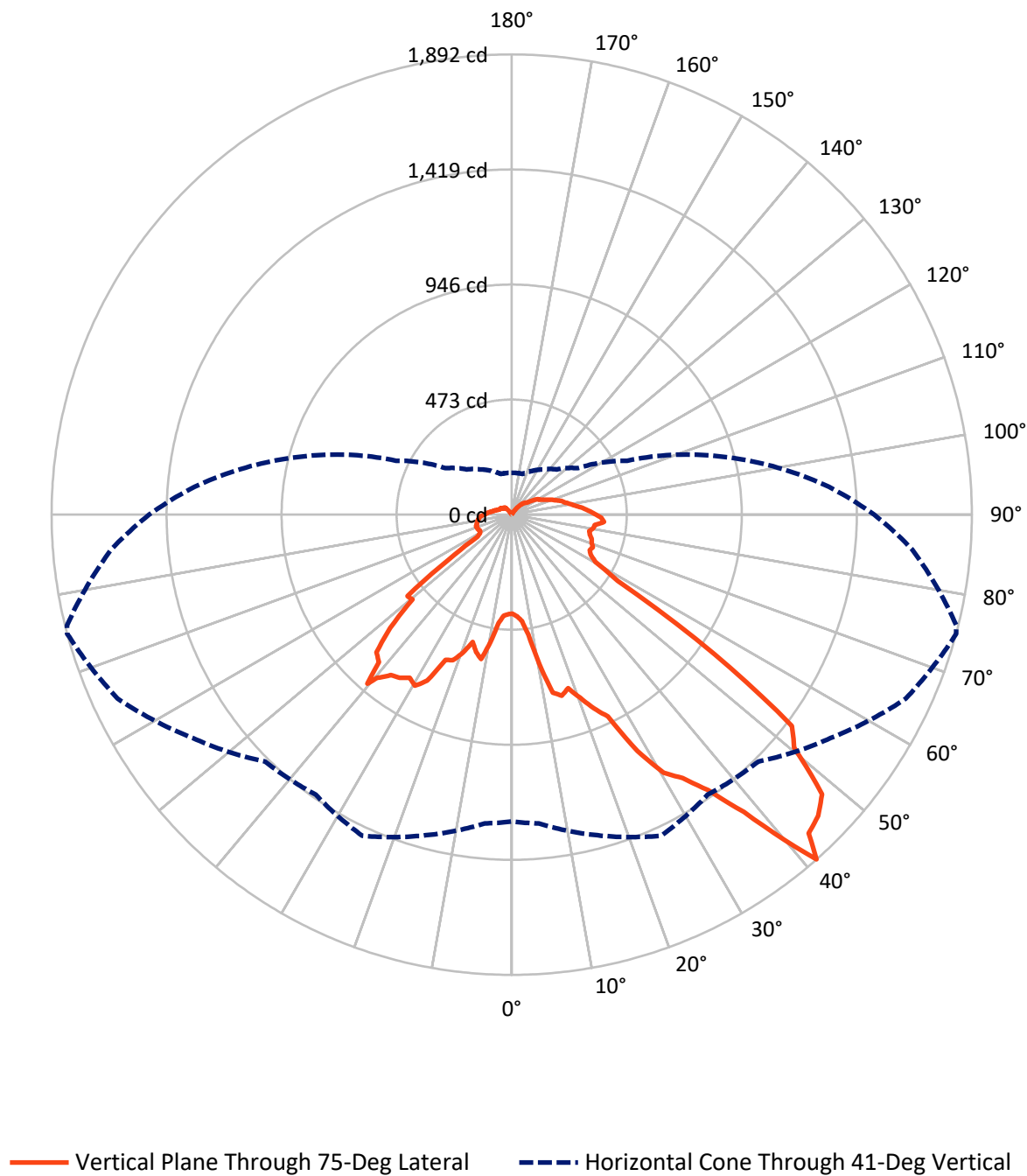


Based on 10 foot mounting height. Maximum calculated value = 9 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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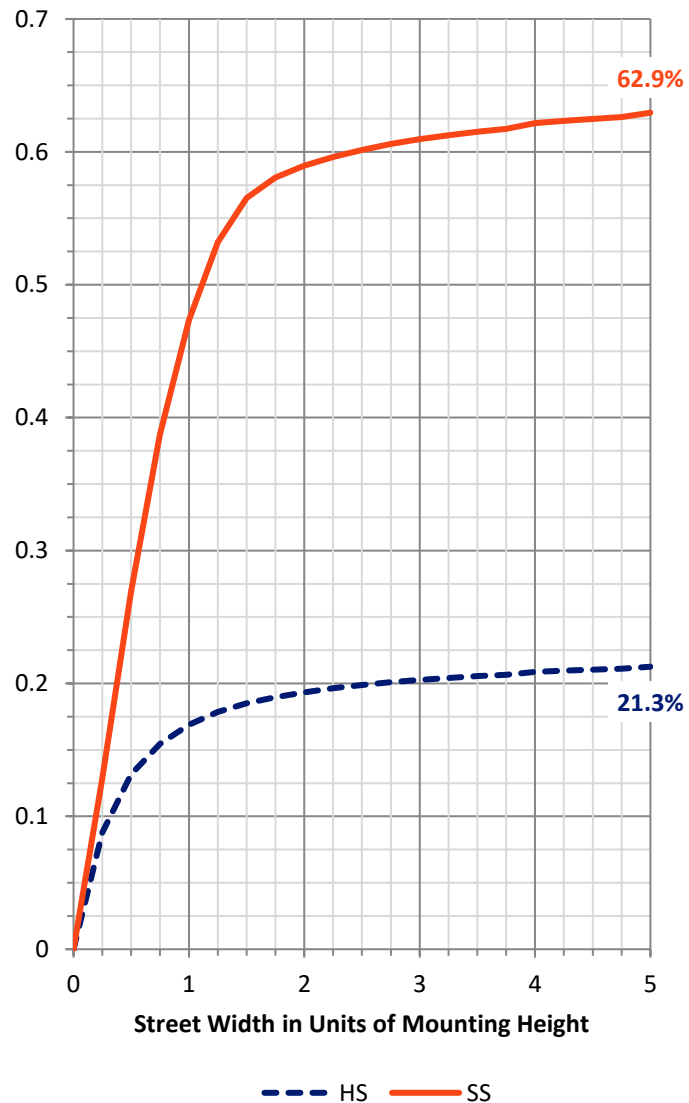
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	757.5	96.6	854.1
	% Fixture	22.1	2.8	24.9
Street Side	Lumens	2227.8	352.0	2579.9
	% Fixture	64.9	10.3	75.1
Total	Lumens	2985.4	448.6	3434.0
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	1.2
10°-20°	169.9	4.9
20°-30°	349.1	10.2
30°-40°	568.4	16.6
40°-50°	738.3	21.5
50°-60°	523.4	15.2
60°-70°	212.8	6.2
70°-80°	192.5	5.6
80°-90°	188.0	5.5
90°-100°	161.3	4.7
100°-110°	116.8	3.4
110°-120°	79.7	2.3
120°-130°	51.8	1.5
130°-140°	30.9	0.9
140°-150°	7.8	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2985.4	86.9
0°-180°	3434.0	100.0

Coefficient of Utilization



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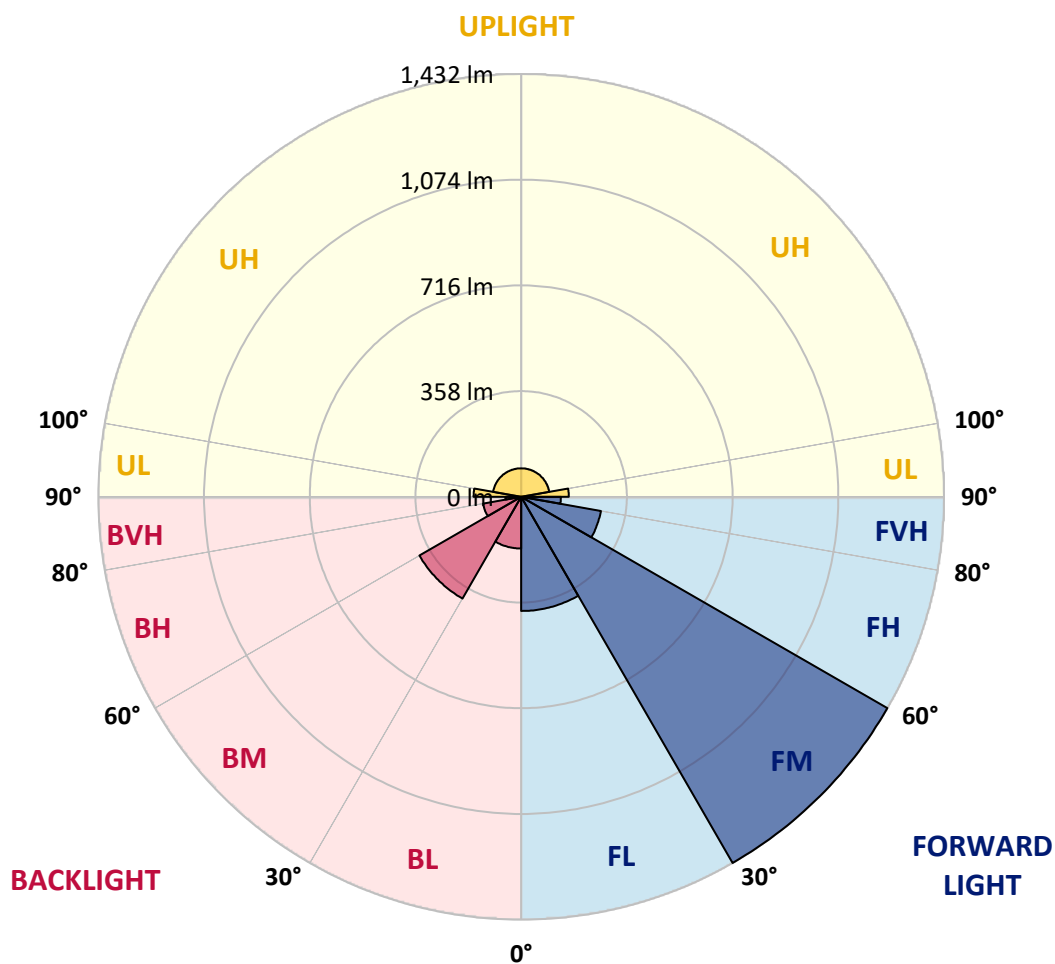
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	386.7	11.3			
FM	(30°-60°)	1432.2	41.7			
FH	(60°-80°)	274.2	8.0			G0/660
FVH	(80°-90°)	134.7	3.9			G2/225
BL	(0°-30°)	175.2	5.1	B1/500		
BM	(30°-60°)	397.9	11.6	B1/1000		
BH	(60°-80°)	131.1	3.8	B1/500		G1/500
BVH	(80°-90°)	53.3	1.6			G1/100
UL	(90°-100°)	161.3	4.7		U3/500	
UH	(100°-180°)	96.6	2.8		U3/500	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	407.3	407.3	407.3	407.3	407.3	407.3	407.3	407.3	407.3	407.3	407.3
2.5°	435.7	436.7	434.8	433.3	432.3	429.4	426.8	423.5	418.6	418.1	416.2
5°	475.4	475.4	475.4	471.9	467.9	461.6	456.2	448.4	439.1	438.6	431.3
7.5°	539.4	539.4	536.5	531.5	522.8	513.0	512.0	511.0	498.3	496.8	483.7
10°	608.3	606.4	607.8	611.8	616.2	629.4	637.6	638.6	625.0	621.5	602.4
12.5°	635.3	637.2	654.4	685.6	738.4	791.2	818.7	796.2	750.6	744.8	699.8
15°	676.4	678.7	707.1	759.5	847.6	923.8	900.3	844.0	772.1	766.8	697.4
17.5°	786.3	797.6	825.0	908.2	997.6	966.8	887.6	815.2	750.2	743.8	685.6
20°	863.5	869.9	922.8	1002.5	1065.6	1018.7	964.3	891.4	803.9	803.9	758.5
22.5°	927.7	925.8	968.8	1089.1	1125.7	1095.5	1032.3	957.9	865.2	860.6	801.5
25°	1028.4	1034.8	1109.1	1242.2	1208.4	1131.2	1048.1	980.0	918.9	913.5	854.3
27.5°	1087.1	1103.7	1189.3	1304.8	1283.2	1179.0	1106.1	1095.9	1100.4	1095.9	1031.4
30°	1101.8	1109.1	1214.8	1329.1	1314.5	1237.3	1237.3	1254.3	1231.9	1225.5	1138.9
32.5°	1138.5	1156.1	1257.2	1346.3	1310.6	1296.0	1303.8	1300.3	1290.6	1281.7	1181.0
35°	1198.1	1213.4	1308.2	1375.1	1310.1	1315.5	1385.9	1426.5	1391.3	1383.4	1233.3
37.5°	1355.2	1369.8	1455.4	1451.4	1344.9	1355.2	1482.7	1557.1	1550.7	1549.8	1401.0
40°	1323.7	1372.2	1475.9	1492.1	1396.7	1408.0	1560.4	1721.8	1796.2	1794.2	1609.8
41°	1261.2	1274.4	1364.8	1456.3	1405.0	1434.8	1601.0	1788.3	1892.1	1884.7	1653.8
42.5°	1283.7	1307.2	1361.0	1391.3	1395.2	1454.9	1632.9	1796.7	1791.3	1787.9	1599.1
45°	1475.4	1485.2	1507.7	1449.5	1351.2	1425.5	1615.3	1767.4	1766.8	1751.2	1666.1
47.5°	1383.0	1410.9	1506.6	1454.9	1346.7	1345.7	1470.5	1676.4	1717.4	1694.9	1483.2
50°	1308.2	1328.1	1384.0	1328.7	1281.3	1280.3	1397.7	1552.7	1505.7	1499.4	1208.4
52.5°	1160.5	1180.0	1219.7	1205.9	1179.0	1176.0	1265.5	1427.9	1442.7	1437.8	1219.7
55°	882.2	895.9	1045.1	1049.0	1028.9	1038.7	1111.0	1177.0	1012.8	986.4	685.6
57.5°	518.3	553.6	698.2	788.9	830.4	838.2	813.2	696.4	513.9	495.4	316.5
60°	255.7	273.8	374.5	470.5	578.0	582.0	502.7	445.0	394.7	383.4	276.8
62.5°	182.4	193.2	259.2	310.1	370.2	380.0	352.2	376.1	365.3	358.5	269.5
65°	165.3	174.6	229.9	256.8	281.7	296.8	303.6	343.8	352.2	347.7	267.4
67.5°	151.1	160.4	209.8	230.3	248.9	273.3	288.0	327.7	359.5	356.5	283.6
70°	133.6	144.2	189.2	214.1	237.2	265.1	285.0	326.6	349.6	345.7	274.8
72.5°	116.9	126.6	163.4	192.7	226.3	258.2	288.0	318.4	343.8	340.4	278.3
75°	101.7	111.5	143.2	173.6	212.3	260.1	290.0	315.9	332.0	327.1	273.3
77.5°	91.4	101.2	128.6	158.4	201.5	263.1	316.9	326.6	326.1	321.3	267.4
80°	83.1	92.9	118.9	147.7	191.7	269.5	338.9	348.6	339.9	333.6	269.0
82.5°	80.8	90.0	113.9	145.8	193.6	273.3	345.3	369.8	344.7	336.9	267.4
85°	89.5	95.4	120.3	156.0	206.4	280.2	342.8	381.5	381.0	372.7	291.9
87.5°	106.6	111.5	135.9	172.1	220.0	284.1	373.1	388.8	368.2	364.3	294.9
90°	131.9	135.5	160.9	194.2	234.3	282.2	307.6	327.7	341.3	338.3	279.7
92.5°	157.0	161.3	184.3	208.8	226.9	242.5	267.4	313.9	315.9	313.5	269.0
95°	186.3	189.2	202.4	214.7	218.6	224.0	248.9	269.5	291.9	289.0	259.2
97.5°	202.4	203.9	209.8	208.3	199.1	200.1	228.0	249.8	263.6	260.1	226.9
100°	198.6	200.1	201.0	192.2	179.5	183.3	206.4	232.7	243.5	242.1	210.4
102.5°	185.8	188.3	188.8	180.0	168.3	169.3	191.7	211.8	223.0	221.0	196.1
105°	182.4	183.3	178.9	167.2	153.5	155.4	177.0	198.6	211.8	210.8	185.3
107.5°	164.3	165.3	159.0	147.7	142.8	148.1	167.7	181.5	190.2	190.2	165.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	137.8	137.8	136.5	134.0	134.9	142.8	159.0	167.7	175.1	174.6	151.1
112.5°	133.6	132.5	131.1	129.2	126.2	132.5	143.2	154.0	155.4	155.0	134.9
115°	131.5	130.1	125.2	119.8	116.4	121.3	129.6	139.5	143.2	142.8	128.6
117.5°	116.4	116.4	112.4	108.6	107.1	113.4	123.7	130.1	130.6	131.5	117.9
120°	104.2	104.2	101.7	99.8	100.7	103.7	114.9	120.3	125.2	124.7	113.0
122.5°	94.8	95.4	93.4	89.5	92.9	95.8	102.1	107.6	113.0	112.4	104.2
125°	85.5	85.1	83.1	78.7	86.6	90.4	91.0	90.4	95.8	95.8	88.5
127.5°	75.8	75.3	73.3	70.9	81.2	86.6	85.5	77.8	81.2	80.8	77.2
130°	74.9	74.3	70.9	68.0	72.8	82.2	77.8	72.3	75.3	75.8	72.3
132.5°	74.3	73.9	70.5	65.5	64.0	73.9	66.0	66.9	70.5	70.5	67.5
135°	69.5	69.0	66.0	59.2	52.3	61.0	52.3	57.7	62.1	62.1	59.6
137.5°	61.0	60.6	57.7	51.8	42.1	43.4	39.7	48.4	53.3	53.7	51.8
140°	48.4	48.9	46.0	40.1	30.4	23.0	25.9	37.7	42.5	42.5	42.1
142.5°	36.2	36.2	33.3	27.5	17.6	8.3	14.6	23.0	28.9	29.4	30.4
145°	25.4	25.4	22.5	17.6	8.8	1.4	6.9	13.6	18.1	18.1	19.5
147.5°	16.6	16.6	14.2	9.9	2.4	0.4	1.9	6.9	10.7	10.7	11.7
150°	10.3	10.3	7.8	2.9	0.4	0.0	0.4	1.4	4.9	4.9	6.3
152.5°	3.4	2.9	1.4	1.0	0.4	0.0	0.0	0.4	0.4	0.4	1.4
155°	1.0	1.0	1.0	0.4	0.0	0.0	0.0	0.0	0.4	0.4	0.4
157.5°	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	407.3	407.3	407.3	407.3	407.3	407.3	407.3	407.3	407.3	407.3	407.3
2.5°	413.8	412.8	409.2	405.0	399.6	392.7	388.3	386.3	383.9	382.0	383.0
5°	427.4	424.0	416.2	402.0	388.8	379.0	371.2	364.3	360.9	358.0	358.0
7.5°	477.3	471.5	449.4	425.4	395.6	368.8	349.6	339.9	328.7	325.7	325.1
10°	585.8	578.5	532.1	474.4	418.1	365.3	317.4	291.5	279.2	272.9	274.3
12.5°	675.9	659.2	606.4	540.9	463.2	378.0	311.5	265.1	244.5	236.6	233.7
15°	668.4	640.6	583.5	521.2	460.6	398.6	332.0	279.7	237.2	223.0	220.0
17.5°	652.4	623.0	547.2	467.5	396.6	358.5	321.3	283.2	250.9	229.3	225.4
20°	734.6	701.2	602.4	523.3	423.5	327.1	284.6	263.1	242.5	231.8	229.3
22.5°	769.7	736.0	645.0	544.7	446.0	362.8	293.4	253.8	237.6	235.7	232.7
25°	822.5	780.0	656.3	530.1	434.8	366.8	293.9	254.8	230.9	230.9	229.3
27.5°	993.1	931.1	766.4	588.8	451.4	352.6	286.6	243.5	214.7	203.4	201.0
30°	1069.5	1010.3	808.4	603.9	458.7	355.9	272.9	223.4	204.5	196.1	195.1
32.5°	1124.8	1047.5	790.7	567.3	421.5	332.5	261.1	216.2	197.1	189.8	187.8
35°	1152.1	1050.4	814.2	554.1	399.1	305.2	247.5	207.8	196.1	190.2	190.2
37.5°	1285.7	1159.5	826.0	550.6	382.0	278.7	235.2	208.3	183.3	175.1	175.6
40°	1470.0	1290.6	869.9	525.2	348.6	269.5	227.4	199.1	176.0	170.7	168.7
41°	1490.6	1309.6	914.0	524.8	333.0	262.7	226.9	198.1	173.0	172.1	171.6
42.5°	1435.7	1248.5	815.2	476.8	312.5	251.4	225.9	197.1	170.2	172.6	172.1
45°	1498.4	1312.5	793.2	436.7	276.8	232.7	214.1	191.7	168.3	163.8	164.3
47.5°	1301.9	1112.6	682.7	380.0	245.0	212.7	198.1	179.5	163.4	160.9	160.9
50°	1036.8	872.4	536.9	334.0	215.7	196.1	182.4	170.2	153.5	147.2	149.1
52.5°	1056.3	883.7	544.3	311.1	196.1	178.9	170.2	155.0	135.5	123.7	125.6
55°	580.9	503.6	318.4	238.6	181.9	166.3	156.0	140.4	118.9	105.7	107.1
57.5°	263.6	219.1	169.3	164.3	157.5	153.1	141.8	127.7	107.1	92.5	92.5
60°	235.7	193.2	151.1	137.4	140.8	141.4	129.6	116.0	95.8	78.7	79.2
62.5°	230.3	188.3	146.7	131.1	134.0	134.0	122.7	109.0	91.0	73.3	73.3
65°	229.3	186.3	147.2	129.2	131.1	131.5	120.3	109.0	96.8	84.1	85.1
67.5°	243.0	197.1	152.1	127.7	129.6	129.6	120.3	112.0	104.7	96.8	97.8
70°	235.7	193.6	151.1	127.7	126.6	126.6	119.8	112.4	108.6	101.7	102.1
72.5°	238.6	199.5	154.0	126.6	122.7	121.8	117.4	113.0	109.6	106.1	106.6
75°	234.3	197.5	149.1	121.8	116.9	114.9	112.0	111.0	111.5	110.1	109.0
77.5°	227.4	194.2	145.8	116.9	111.5	107.1	105.1	105.7	107.6	106.1	104.7
80°	226.3	194.6	144.2	113.9	104.7	97.4	94.8	95.8	96.3	93.4	90.4
82.5°	223.4	190.7	137.4	106.1	94.4	85.1	83.1	84.5	85.1	82.2	79.2
85°	240.6	201.0	135.5	98.8	85.5	75.8	72.3	72.8	69.5	65.0	62.1
87.5°	247.5	202.9	127.7	87.5	76.8	68.5	64.0	61.0	55.7	48.4	46.4
90°	235.2	192.7	114.9	75.3	67.5	61.0	55.7	51.8	45.1	37.7	35.2
92.5°	228.0	184.8	105.7	67.5	59.2	53.7	48.9	43.0	36.2	27.9	26.4
95°	223.4	181.9	99.8	60.2	52.8	47.4	42.5	37.1	30.4	23.9	23.0
97.5°	194.6	157.5	88.1	53.7	46.4	41.5	37.1	31.8	25.4	20.5	19.5
100°	181.0	146.7	81.6	48.4	41.1	36.7	32.8	28.4	23.0	19.5	19.1
102.5°	169.3	136.5	74.3	43.4	36.7	32.2	28.9	24.9	21.0	18.1	18.6
105°	160.4	130.1	71.3	40.1	32.8	29.4	25.4	22.5	18.6	16.6	16.6
107.5°	142.2	115.4	63.1	36.2	29.8	26.4	23.5	20.5	17.6	16.2	16.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	131.5	107.1	60.2	34.8	28.4	24.5	21.6	18.6	15.7	15.7	15.7
112.5°	116.9	96.3	55.7	32.8	26.4	23.0	20.1	16.6	13.6	14.2	14.6
115°	112.0	92.9	53.7	31.2	25.4	22.0	18.6	15.7	12.2	13.2	13.6
117.5°	103.1	86.1	52.3	31.2	24.5	20.5	17.6	14.6	11.7	12.7	12.7
120°	100.3	84.5	52.3	30.8	23.5	19.5	16.6	12.7	10.7	11.7	11.7
122.5°	93.4	79.2	49.9	30.4	22.5	18.6	16.2	10.7	9.3	10.3	10.3
125°	80.2	69.0	45.1	28.4	21.6	18.6	15.7	8.8	8.8	9.9	9.9
127.5°	69.9	60.6	41.1	27.9	22.0	19.5	14.6	7.3	7.8	8.8	8.8
130°	66.5	59.2	42.5	30.4	23.9	20.5	10.7	6.9	7.3	8.3	8.8
132.5°	63.1	57.3	43.4	32.8	25.4	20.1	8.8	6.3	6.9	7.8	7.8
135°	56.3	51.8	40.5	31.2	23.9	16.2	6.3	5.4	6.3	7.3	7.3
137.5°	49.3	46.0	37.1	28.9	22.0	12.7	4.4	4.9	5.4	5.9	5.9
140°	40.5	37.7	30.8	23.5	16.2	6.9	2.9	4.0	4.4	4.9	4.9
142.5°	29.4	27.5	22.0	15.7	9.3	2.4	1.9	2.9	3.4	4.0	4.0
145°	19.5	18.1	14.2	9.9	3.4	1.4	1.0	1.9	2.9	2.9	3.4
147.5°	11.7	11.3	8.3	4.4	1.4	1.0	1.0	1.4	1.9	2.4	2.4
150°	5.9	5.9	4.0	1.4	1.0	0.4	0.4	0.4	1.0	1.4	1.4
152.5°	1.4	1.0	1.0	1.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4
155°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
157.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.4	0.4	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)