

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: P157064

Luminaire Tested: **UTLD-F01-LED-E-U-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157064
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33669)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-F01-LED-E-U-SL3-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (7) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1982.1 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 25.9
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



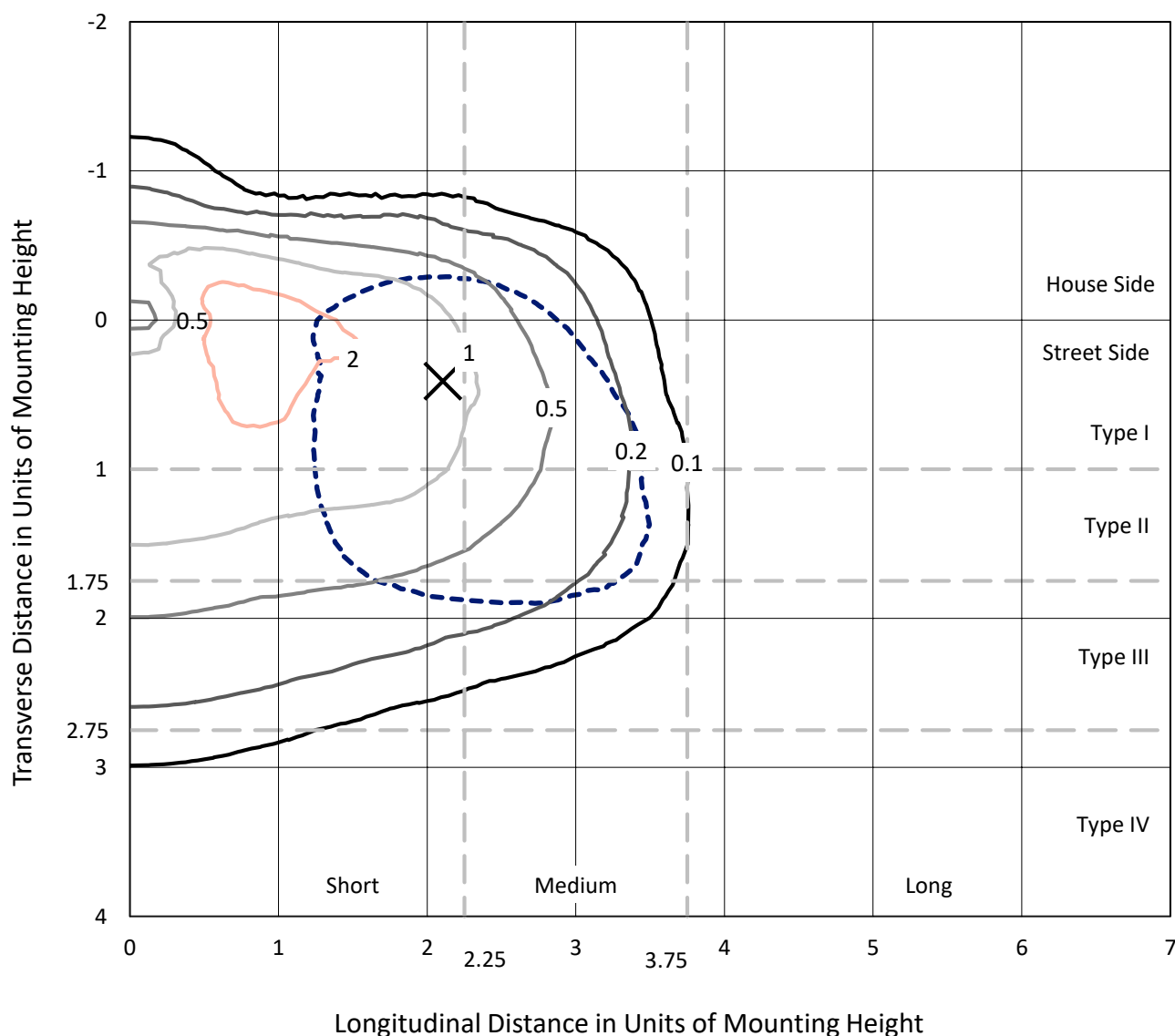
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

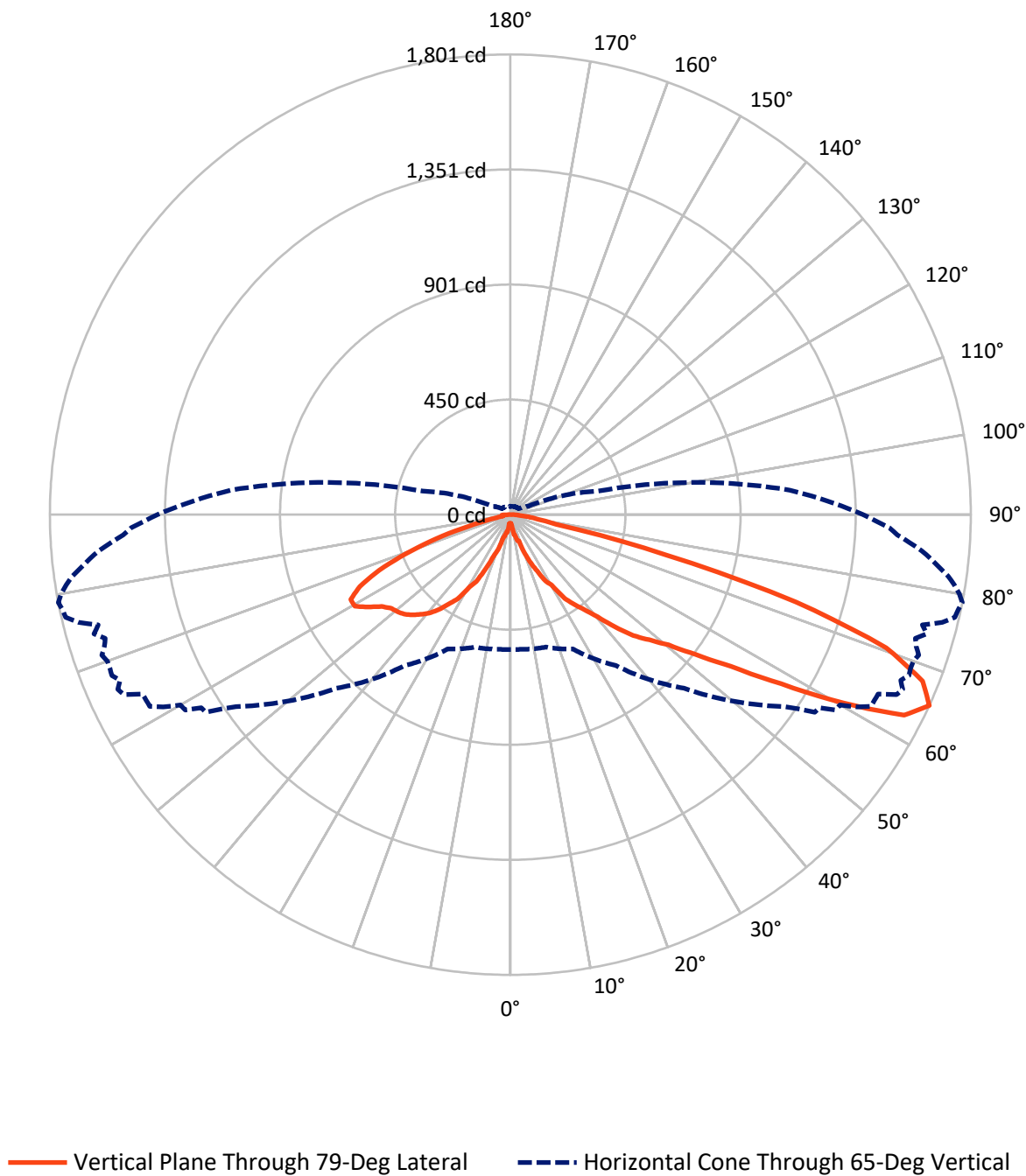


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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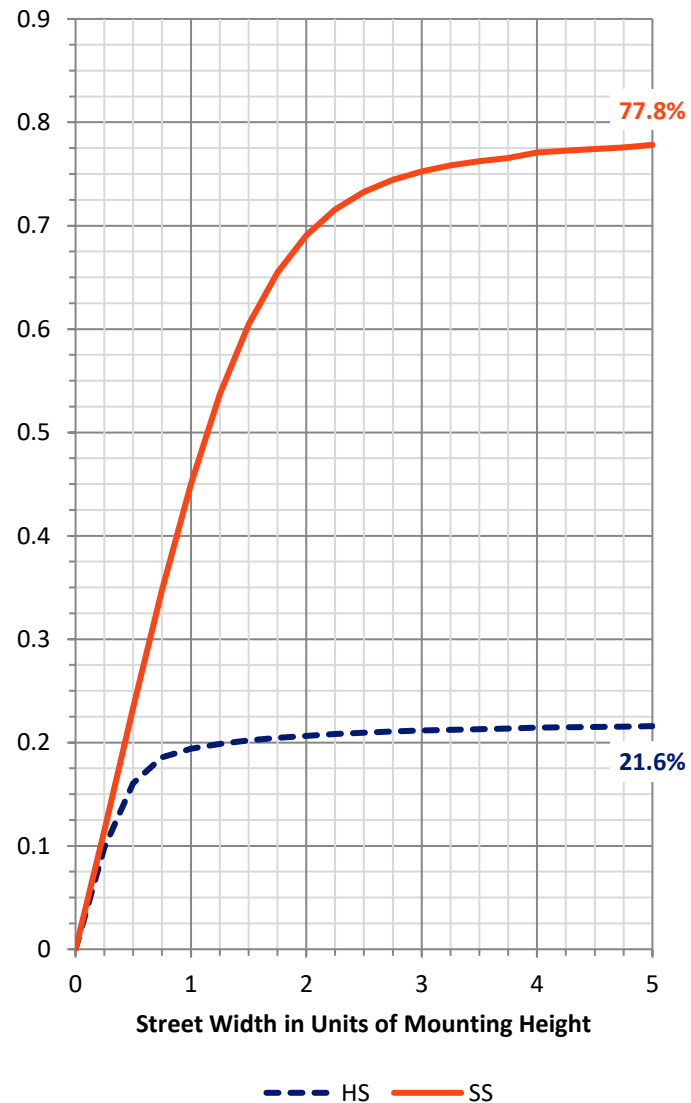
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	433.6	0.0	433.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	1548.5	0.0	1548.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	1982.1	0.0	1982.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.2
10°-20°	30.4	1.5
20°-30°	93.6	4.7
30°-40°	180.2	9.1
40°-50°	297.8	15.0
50°-60°	447.8	22.6
60°-70°	599.9	30.3
70°-80°	281.9	14.2
80°-90°	45.8	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1982.1	100.0
0°-180°	1982.1	100.0

Coefficient of Utilization



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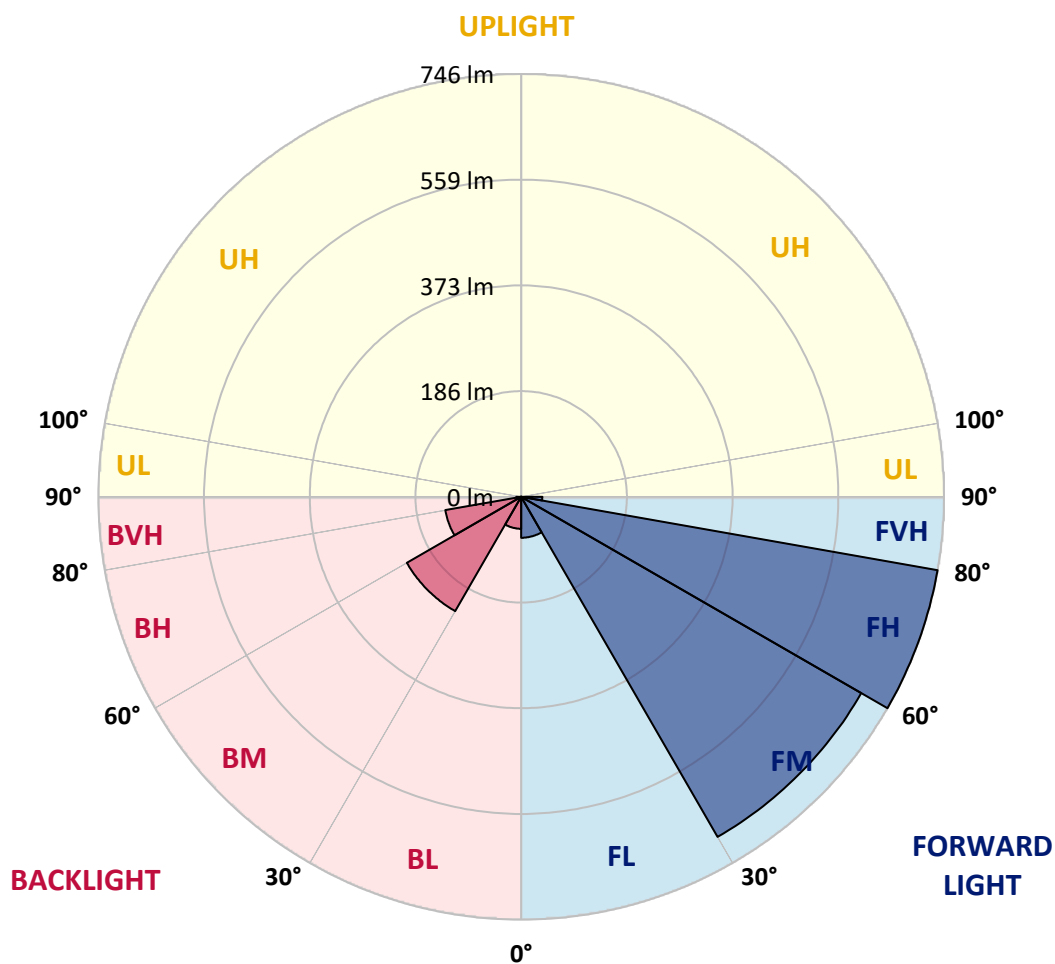
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	72.3	3.6			
FM	(30°-60°)	692.8	35.0			
FH	(60°-80°)	746.0	37.6			G1/1800
FVH	(80°-90°)	37.4	1.9			G1/100
BL	(0°-30°)	56.4	2.8	B0/110		
BM	(30°-60°)	233.0	11.8	B1/1000		
BH	(60°-80°)	135.8	6.9	B1/500		G1/500
BVH	(80°-90°)	8.4	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
2.5°	56.5	56.2	56.2	56.5	55.8	55.4	48.3	46.7	45.2	44.1	43.0
5°	46.7	47.1	46.7	46.7	47.9	46.4	50.9	51.6	53.5	54.3	55.8
7.5°	75.0	75.4	74.6	73.9	60.7	48.6	47.1	47.1	47.1	48.6	48.3
10°	79.5	79.5	78.8	78.0	75.8	72.4	52.8	53.2	62.2	55.4	65.6
12.5°	111.2	112.0	110.5	105.2	81.1	100.7	101.4	100.3	99.5	96.9	94.6
15°	119.9	122.5	118.0	112.3	130.8	111.2	106.7	105.6	104.8	104.8	110.8
17.5°	165.5	166.3	162.9	152.3	138.4	132.7	131.2	130.4	130.1	130.1	130.8
20°	197.5	199.8	174.5	182.1	168.5	153.4	148.2	148.2	148.5	145.5	141.4
22.5°	217.5	216.8	205.1	209.6	185.9	171.5	184.7	188.1	191.9	193.4	195.7
25°	258.2	257.9	228.8	209.2	203.6	192.6	195.3	198.7	201.3	207.3	218.7
27.5°	262.8	262.4	241.7	233.0	202.1	220.2	247.3	253.0	256.4	257.1	256.4
30°	296.3	295.6	279.7	243.2	230.7	239.8	265.8	271.4	274.5	276.7	276.7
32.5°	331.0	331.0	301.2	255.6	248.4	274.1	312.5	314.4	316.7	317.1	317.8
35°	356.6	348.7	314.4	286.9	276.0	303.1	351.4	352.5	359.3	377.0	382.3
37.5°	370.2	371.0	358.1	325.0	326.1	356.6	431.7	433.2	434.3	438.8	445.2
40°	392.1	395.8	386.8	366.4	375.5	423.7	501.4	506.3	510.5	511.2	523.6
42.5°	414.3	417.3	417.7	423.7	431.7	493.9	568.9	573.8	573.0	578.7	597.5
45°	451.6	456.2	463.7	470.9	488.6	558.7	636.0	643.5	637.5	651.8	663.9
47.5°	499.5	502.9	515.7	534.6	541.7	615.6	706.1	708.0	713.3	728.4	732.9
50°	541.7	545.9	562.1	587.0	595.7	665.4	759.6	760.4	769.1	790.6	781.9
52.5°	573.8	578.3	592.3	631.1	644.7	720.8	801.1	801.5	816.6	836.6	818.8
55°	591.5	596.4	605.8	649.9	676.3	761.9	850.1	852.4	873.9	884.8	871.2
57.5°	592.3	596.8	607.7	646.2	689.9	804.5	918.0	929.3	951.9	965.5	965.5
60°	585.5	591.1	601.7	634.9	702.7	852.0	1022.4	1045.8	1082.0	1095.2	1125.0
62.5°	567.8	570.4	576.8	614.9	721.6	908.9	1172.8	1211.7	1265.2	1273.5	1334.2
65°	527.4	528.9	536.8	580.2	720.8	961.0	1309.3	1360.2	1420.1	1425.8	1483.9
67.5°	474.6	478.0	484.1	525.5	652.6	941.0	1321.0	1387.3	1434.1	1436.0	1484.6
70°	392.8	391.3	398.5	427.9	525.9	789.1	1194.3	1256.5	1288.2	1301.4	1334.6
72.5°	257.5	258.2	253.0	271.1	354.4	555.7	962.1	1031.5	1045.8	1077.8	1094.4
75°	144.8	141.8	147.4	162.5	199.8	334.4	654.8	716.3	746.1	772.5	786.8
77.5°	86.0	84.8	94.2	115.4	161.4	224.3	377.8	408.3	432.8	453.2	479.2
80°	40.0	42.6	41.8	47.5	87.8	191.9	262.4	274.5	285.0	296.7	312.5
82.5°	19.6	21.5	24.9	26.0	30.9	96.9	234.1	246.2	256.4	268.0	283.9
85°	12.8	13.2	18.5	18.8	19.2	29.4	114.6	132.7	139.9	159.5	186.6
87.5°	4.5	6.4	13.6	12.1	12.1	14.3	38.8	42.6	44.5	48.6	54.3
90°	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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
2.5°	42.6	42.6	41.1	39.6	38.8	38.8	37.7	37.7	37.3	36.9	36.2
5°	55.4	56.2	56.2	56.2	55.8	55.4	55.0	54.3	53.5	52.0	50.9
7.5°	47.1	46.4	45.6	44.1	44.5	45.6	46.7	48.3	50.5	51.6	52.0
10°	66.4	68.2	67.9	68.2	67.9	68.6	68.6	69.4	69.0	69.4	70.1
12.5°	90.9	83.3	76.2	74.6	74.3	73.9	74.6	74.3	76.2	77.3	77.3
15°	114.2	122.1	122.5	126.7	125.9	119.9	113.5	111.6	110.1	110.1	106.3
17.5°	131.2	133.8	134.2	133.1	134.6	134.2	132.3	130.1	127.4	122.5	115.4
20°	156.5	160.2	162.5	164.7	169.3	165.9	165.1	180.2	182.1	183.6	182.1
22.5°	198.7	198.3	197.2	191.1	188.1	187.7	188.9	191.9	191.5	192.6	193.8
25°	223.9	223.6	226.6	237.5	240.5	251.5	248.4	248.4	250.3	252.2	249.2
27.5°	254.5	257.9	262.0	261.6	266.9	265.4	265.0	268.0	268.0	264.3	266.5
30°	278.6	289.2	303.5	308.0	305.0	305.0	309.1	313.3	312.2	311.8	312.5
32.5°	322.3	332.9	323.8	334.0	328.0	337.8	353.2	363.8	367.6	367.2	372.8
35°	392.8	394.7	389.1	393.2	400.4	402.3	403.8	403.8	399.2	406.8	410.2
37.5°	452.8	443.3	451.6	446.7	452.0	458.1	457.3	450.1	447.9	460.3	459.2
40°	528.9	513.8	524.4	521.8	524.8	526.7	518.4	513.5	519.5	523.3	522.5
42.5°	585.1	593.0	593.4	592.3	594.9	595.3	580.2	582.5	589.6	588.5	584.7
45°	645.8	659.0	651.8	662.8	663.9	649.2	645.8	655.6	657.9	654.1	649.6
47.5°	719.7	728.4	716.3	732.9	733.3	716.7	724.2	731.0	732.5	725.0	731.8
50°	783.4	784.2	781.5	794.3	786.8	778.5	795.1	798.9	795.5	785.3	795.8
52.5°	835.8	825.6	836.2	853.9	833.5	834.7	859.6	856.5	846.0	855.8	848.6
55°	892.7	883.7	908.9	917.2	898.4	915.7	933.1	928.9	916.9	936.8	922.9
57.5°	978.3	980.6	1002.8	1009.2	1001.3	1039.8	1048.1	1046.9	1047.3	1060.5	1054.5
60°	1132.5	1154.7	1180.4	1200.0	1212.8	1258.4	1259.2	1259.9	1274.6	1281.0	1302.5
62.5°	1330.0	1388.9	1403.2	1426.9	1474.4	1518.2	1508.7	1509.9	1528.7	1513.6	1541.5
65°	1489.5	1552.1	1597.3	1600.7	1667.1	1680.3	1658.8	1681.4	1677.6	1677.6	1689.7
67.5°	1504.6	1569.1	1609.8	1627.5	1704.4	1701.0	1680.3	1714.2	1694.2	1711.2	1706.3
70°	1369.6	1417.9	1460.1	1497.8	1567.2	1563.4	1564.5	1611.3	1608.6	1621.8	1608.3
72.5°	1133.6	1176.2	1199.6	1268.2	1286.3	1283.7	1311.9	1315.7	1336.8	1365.5	1347.8
75°	849.0	876.9	878.8	924.4	917.2	908.6	912.7	927.8	888.6	863.7	843.7
77.5°	518.4	524.8	518.7	513.1	494.6	476.5	486.3	478.0	452.8	436.6	417.3
80°	326.5	334.4	337.4	355.5	350.6	366.1	377.8	389.4	392.8	378.9	365.3
82.5°	302.4	305.0	314.0	332.5	335.9	355.9	358.5	365.7	353.2	345.3	320.8
85°	194.5	200.6	219.0	207.3	223.2	223.6	215.3	214.5	190.4	177.9	149.7
87.5°	59.6	61.1	68.2	68.6	77.7	79.2	81.8	79.2	70.9	59.6	49.4
90°	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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
2.5°	35.8	35.4	35.1	35.1	35.1	34.7	34.7	34.7	34.7	34.3	34.3
5°	48.6	46.7	44.5	41.5	38.5	37.3	37.3	36.6	36.2	35.8	35.4
7.5°	52.0	51.6	51.6	51.6	50.9	50.1	49.4	46.0	39.2	36.2	35.8
10°	70.1	72.4	76.2	79.9	80.7	80.7	79.9	78.4	76.9	75.0	69.0
12.5°	76.9	76.9	75.8	74.6	76.2	79.5	82.9	84.4	84.1	83.3	82.9
15°	105.2	105.2	104.8	104.1	104.1	103.7	104.1	105.9	108.2	110.5	110.5
17.5°	115.4	114.6	115.0	116.1	111.6	110.5	110.1	108.2	107.8	109.3	110.5
20°	180.2	177.6	170.0	169.3	167.8	167.0	166.6	164.4	163.2	166.3	166.6
22.5°	192.3	195.7	193.4	204.7	186.2	187.0	199.1	205.8	205.8	204.7	202.8
25°	252.6	250.3	253.0	253.7	249.9	253.0	247.3	244.3	240.1	239.8	240.5
27.5°	267.3	273.7	274.8	285.4	291.8	288.8	300.5	295.6	291.4	288.0	291.0
30°	317.4	315.5	318.6	319.7	323.8	321.6	317.4	319.7	323.1	328.4	324.2
32.5°	377.8	380.8	383.4	384.2	386.4	383.4	383.8	391.3	396.2	390.6	381.9
35°	413.9	413.9	418.8	418.1	413.9	415.5	428.3	431.3	426.0	422.2	428.3
37.5°	460.3	459.6	459.9	461.1	458.4	472.8	479.5	472.0	466.3	478.0	473.1
40°	517.2	522.5	518.0	518.7	530.1	538.4	531.2	525.5	539.5	530.8	523.6
42.5°	588.1	583.2	576.8	590.0	600.6	594.9	586.6	600.9	596.8	584.7	605.5
45°	658.2	651.8	653.0	664.6	668.8	657.1	664.6	674.8	656.0	675.6	683.1
47.5°	720.1	723.1	736.3	747.2	732.9	736.3	747.6	732.1	746.5	761.2	759.6
50°	785.3	798.5	807.5	805.6	795.8	817.3	807.2	801.5	832.0	836.2	840.7
52.5°	846.7	866.7	868.6	856.9	872.0	884.1	870.1	909.3	922.1	925.1	938.0
55°	933.8	951.9	944.4	941.7	979.4	970.8	999.0	1047.7	1053.7	1065.8	1068.0
57.5°	1078.6	1092.2	1084.2	1114.8	1145.3	1140.0	1224.5	1249.4	1283.7	1290.5	1296.9
60°	1328.9	1318.4	1318.4	1384.0	1376.0	1430.3	1491.4	1498.2	1535.1	1537.8	1545.3
62.5°	1545.3	1540.8	1576.2	1595.5	1591.7	1690.5	1706.3	1728.5	1724.4	1731.9	1686.3
65°	1669.7	1656.9	1694.2	1669.0	1741.0	1785.1	1790.7	1801.3	1783.6	1758.3	1729.7
67.5°	1671.2	1673.5	1677.3	1660.3	1742.5	1745.5	1754.9	1739.5	1724.4	1659.2	1629.8
70°	1578.5	1593.2	1561.1	1591.7	1624.5	1606.8	1600.7	1560.4	1520.8	1452.6	1394.5
72.5°	1321.0	1301.4	1282.2	1305.2	1289.3	1256.9	1218.1	1167.9	1094.4	1042.8	987.0
75°	797.7	761.2	780.4	746.8	699.3	686.1	642.0	628.1	569.3	494.2	466.0
77.5°	398.1	360.0	364.9	336.3	300.1	270.3	224.7	184.0	146.7	113.5	92.7
80°	333.3	314.8	296.3	266.2	235.6	195.7	154.9	109.7	74.6	54.7	46.7
82.5°	286.9	281.6	245.4	216.4	182.5	148.5	104.8	72.4	46.7	36.2	33.6
85°	132.7	119.5	103.7	99.2	78.0	63.7	47.5	35.1	27.1	24.1	22.2
87.5°	47.9	41.1	38.1	32.8	28.7	26.0	24.5	23.8	23.8	23.8	22.6
90°	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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
2.5°	34.3	34.3	33.9	33.9	33.9	33.9	33.9	33.6	33.6	33.6	34.3
5°	35.4	35.1	35.1	34.7	34.7	34.7	34.3	34.3	33.9	35.1	47.1
7.5°	35.8	36.2	36.2	36.2	36.2	36.2	35.8	35.8	35.8	40.0	46.4
10°	61.5	59.2	58.8	58.1	57.3	56.9	56.2	55.0	56.5	76.9	53.5
12.5°	80.7	72.0	65.2	64.1	63.3	62.2	62.2	59.2	61.8	73.5	57.3
15°	109.7	107.1	99.5	92.4	93.1	93.1	92.4	92.0	85.2	86.0	87.1
17.5°	113.1	118.8	122.9	113.5	104.8	99.2	100.7	108.6	97.6	93.5	111.6
20°	166.3	168.1	168.9	163.6	151.9	151.9	153.8	155.7	147.0	145.5	145.1
22.5°	199.4	201.7	200.2	202.4	199.4	197.5	193.8	189.6	185.1	167.0	178.7
25°	241.3	246.9	249.9	245.0	237.9	229.2	226.6	227.0	234.5	233.4	247.3
27.5°	294.8	291.8	288.0	291.4	294.4	285.0	281.6	278.2	276.3	305.0	271.4
30°	314.0	311.8	316.7	311.8	311.0	315.2	318.9	312.9	312.5	335.5	307.6
32.5°	386.0	384.5	373.2	377.8	382.7	383.4	383.0	389.4	385.7	390.6	323.1
35°	420.7	412.8	423.7	425.3	420.0	426.8	426.8	425.3	435.4	415.5	335.9
37.5°	467.5	473.1	480.3	482.6	488.2	475.8	485.9	487.8	503.7	440.0	326.5
40°	542.1	546.3	550.8	550.0	544.4	558.0	544.8	550.0	567.8	454.3	315.9
42.5°	611.5	615.3	622.0	621.7	623.9	617.1	627.7	623.9	626.2	458.1	302.7
45°	685.0	694.4	688.0	702.0	698.2	695.6	702.0	699.7	676.7	465.2	280.5
47.5°	768.3	766.1	772.5	772.5	775.1	779.6	772.8	774.7	720.4	470.1	256.4
50°	841.1	844.5	850.9	850.1	855.8	850.5	856.9	835.8	756.6	467.1	225.4
52.5°	935.7	949.3	942.1	945.9	939.9	949.3	929.7	919.9	806.0	452.8	193.8
55°	1092.9	1071.8	1085.4	1070.3	1071.4	1068.8	1043.9	1037.1	878.0	445.2	157.6
57.5°	1289.7	1287.4	1277.3	1258.4	1253.9	1237.7	1216.9	1192.8	993.0	443.0	127.8
60°	1528.3	1519.3	1487.6	1469.9	1437.5	1404.7	1386.6	1357.2	1115.5	433.2	105.6
62.5°	1682.5	1644.1	1621.1	1578.9	1548.7	1510.6	1481.2	1426.6	1150.2	411.3	93.5
65°	1690.1	1654.3	1615.1	1565.3	1516.7	1483.5	1430.3	1379.4	1098.2	355.5	78.0
67.5°	1581.1	1542.3	1464.6	1427.7	1380.2	1341.0	1276.9	1232.4	965.5	285.4	61.8
70°	1362.1	1296.5	1224.9	1175.1	1134.8	1088.8	1028.4	979.8	770.6	210.0	47.9
72.5°	943.2	905.5	839.6	814.3	774.7	752.5	720.4	701.2	545.1	144.4	39.6
75°	458.8	430.5	390.9	399.2	371.3	377.4	381.5	359.3	301.2	81.8	34.3
77.5°	85.6	89.7	79.9	79.9	81.1	77.3	78.0	84.8	84.4	41.5	29.0
80°	43.7	43.0	41.5	40.7	38.8	37.7	36.2	35.4	34.3	29.8	25.3
82.5°	31.7	29.8	27.9	26.8	25.6	24.1	23.0	23.4	25.6	29.4	27.1
85°	20.4	19.6	18.1	17.7	17.3	17.0	17.3	18.1	24.5	35.1	26.8
87.5°	21.9	20.0	18.1	17.3	17.0	16.2	15.8	17.0	26.0	38.1	23.0
90°	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):

	125°	135°	145°	155°	165°	175°	180°
0°	33.9	33.9	33.9	33.9	33.9	33.9	33.9
2.5°	35.1	37.7	46.4	53.2	53.9	53.9	53.5
5°	52.8	36.6	33.9	34.7	33.2	33.6	33.2
7.5°	33.6	33.6	34.3	47.5	53.5	55.8	54.3
10°	40.0	53.2	53.9	56.2	56.5	56.2	55.8
12.5°	77.7	76.5	58.4	62.2	81.1	82.2	81.8
15°	83.7	82.9	101.0	83.7	86.7	87.5	86.7
17.5°	109.3	109.3	109.0	100.3	112.7	112.7	112.3
20°	129.3	134.6	130.8	125.5	110.5	110.8	110.8
22.5°	183.2	149.7	142.9	136.8	124.0	124.0	123.7
25°	188.9	168.1	150.0	131.2	120.3	131.6	130.4
27.5°	243.5	175.7	141.0	133.5	119.5	116.1	116.1
30°	239.8	185.5	157.6	121.8	115.4	110.5	108.2
32.5°	253.7	183.6	139.1	110.8	93.9	92.0	89.7
35°	245.8	174.2	119.1	88.2	72.0	68.6	68.6
37.5°	237.5	148.5	96.1	65.6	57.3	54.7	55.0
40°	209.2	119.5	66.7	50.5	50.5	50.9	50.9
42.5°	178.7	82.9	49.0	43.4	45.6	47.1	46.7
45°	140.6	55.8	39.6	40.0	43.0	44.1	44.1
47.5°	100.3	41.5	36.2	37.3	40.7	42.2	41.8
50°	68.2	35.4	33.9	35.8	39.2	40.0	40.0
52.5°	49.4	33.6	32.4	34.3	37.7	38.5	38.5
55°	41.1	32.8	31.7	33.2	36.2	36.9	37.3
57.5°	38.8	32.8	31.3	32.8	35.1	35.8	35.8
60°	38.8	33.2	32.0	32.8	33.9	34.7	35.1
62.5°	39.6	35.1	33.6	33.6	33.6	33.9	33.9
65°	41.1	38.5	36.2	35.1	33.6	32.4	32.8
67.5°	43.0	41.8	40.0	36.9	32.8	30.5	30.5
70°	44.5	45.2	44.5	38.5	32.0	28.3	27.9
72.5°	44.1	47.9	45.2	38.8	31.3	26.4	26.0
75°	41.5	44.5	39.2	35.1	29.4	24.9	24.1
77.5°	36.2	32.8	27.1	27.1	24.5	22.2	21.5
80°	29.0	21.9	18.1	19.2	18.5	13.9	12.1
82.5°	23.0	14.3	13.6	14.3	13.9	10.2	8.7
85°	18.8	9.8	9.8	10.9	9.8	7.5	5.7
87.5°	14.7	5.7	6.4	6.0	6.0	4.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)