

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: P157062

Luminaire Tested: **UTLD-E01-LED-E-U-SL3-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157062
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-E01-LED-E-U-SL3-7060
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (21) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2697.4 lumens
Efficiency: N/A
Efficacy: 109.2 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): 24.7
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



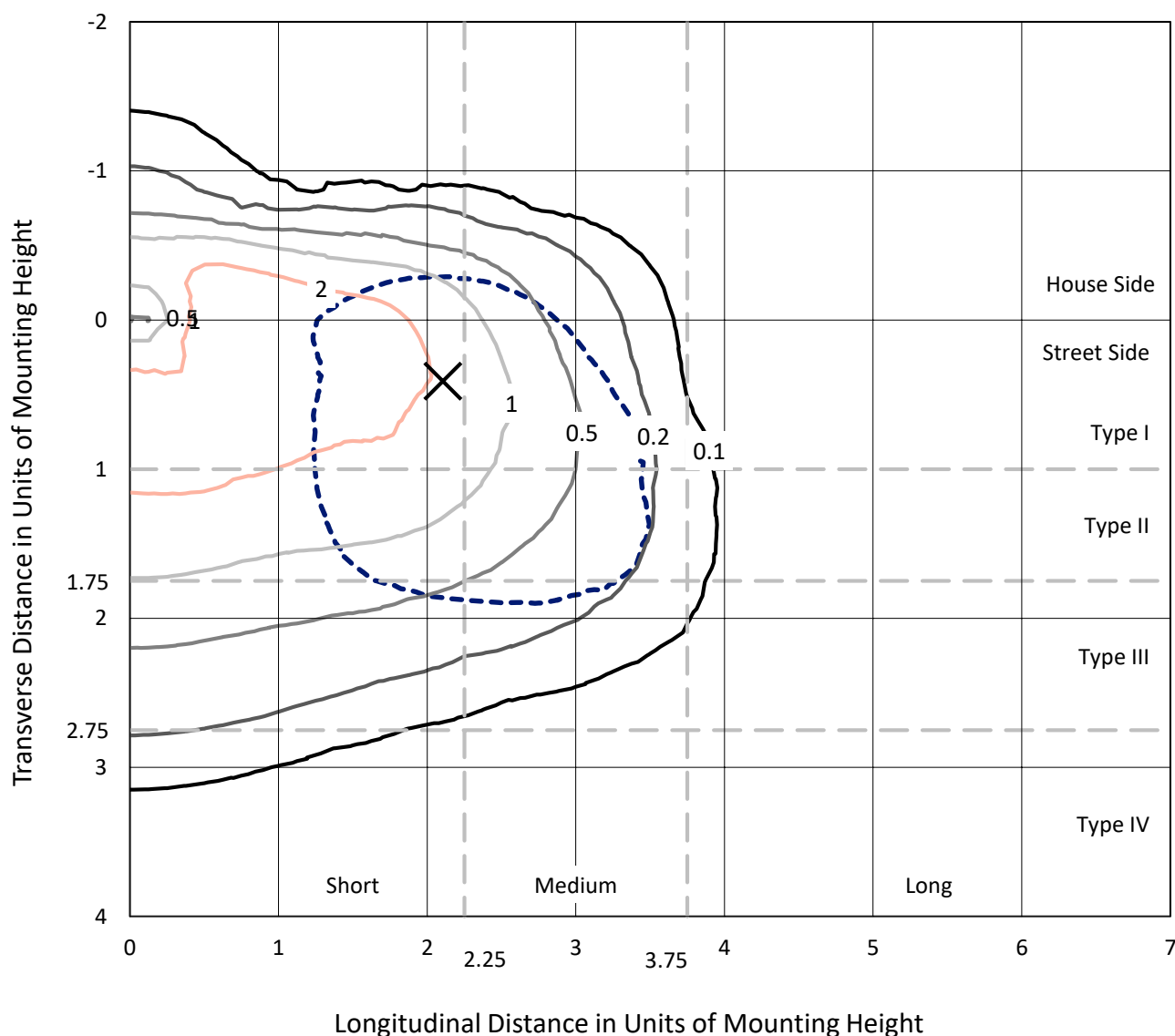
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

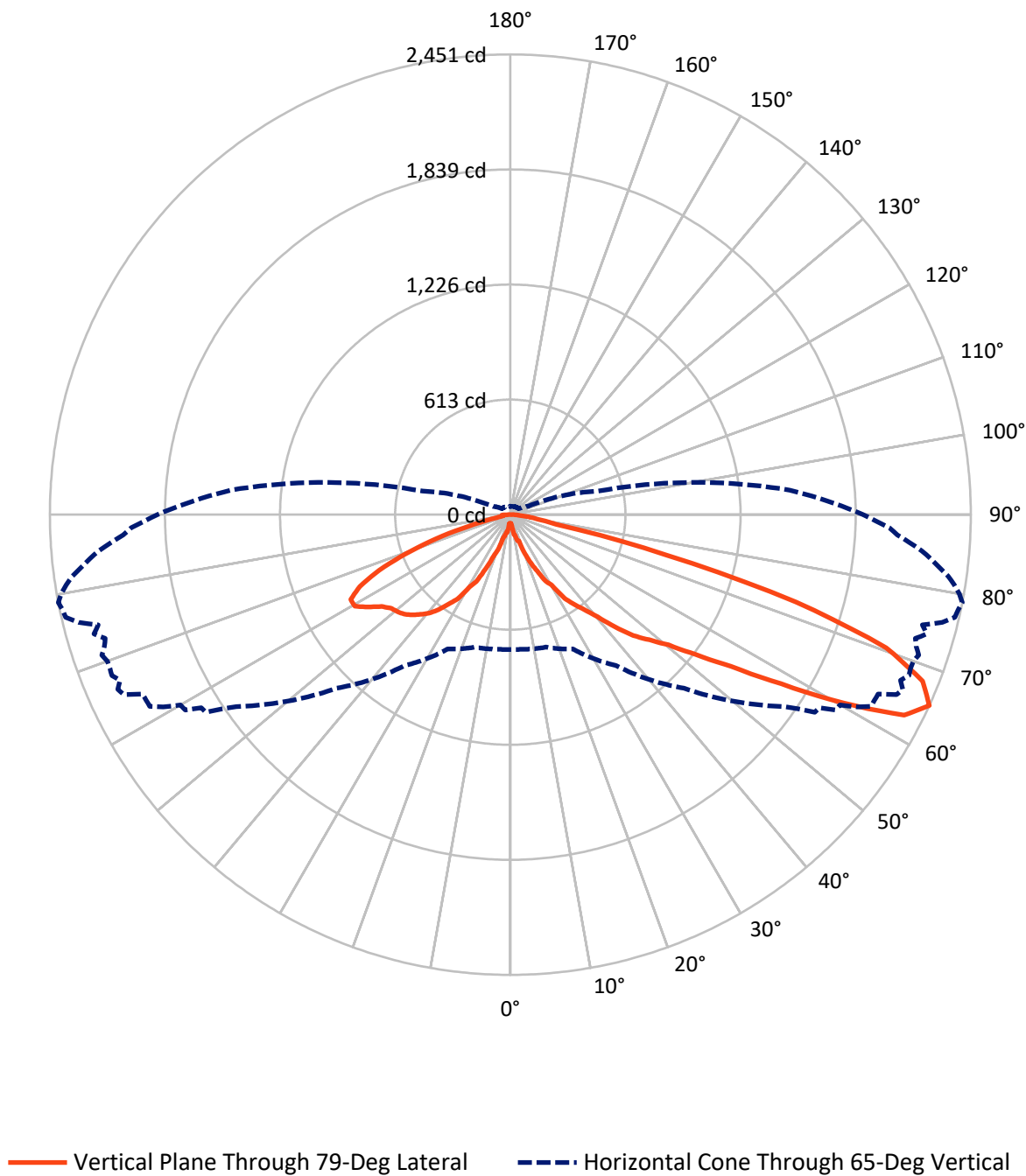


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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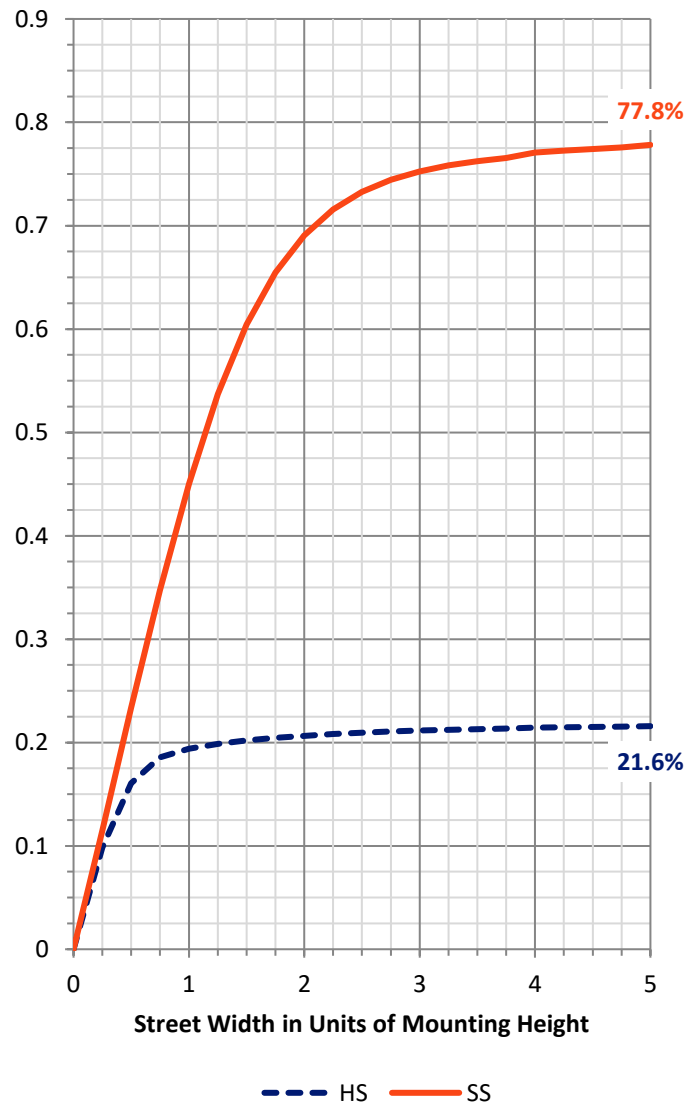
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	590.1	0.0	590.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	2107.3	0.0	2107.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	2697.4	0.0	2697.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.2
10°-20°	41.3	1.5
20°-30°	127.4	4.7
30°-40°	245.2	9.1
40°-50°	405.2	15.0
50°-60°	609.5	22.6
60°-70°	816.4	30.3
70°-80°	383.7	14.2
80°-90°	62.3	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°	2697.4	100.0
0°-180°	2697.4	100.0

Coefficient of Utilization



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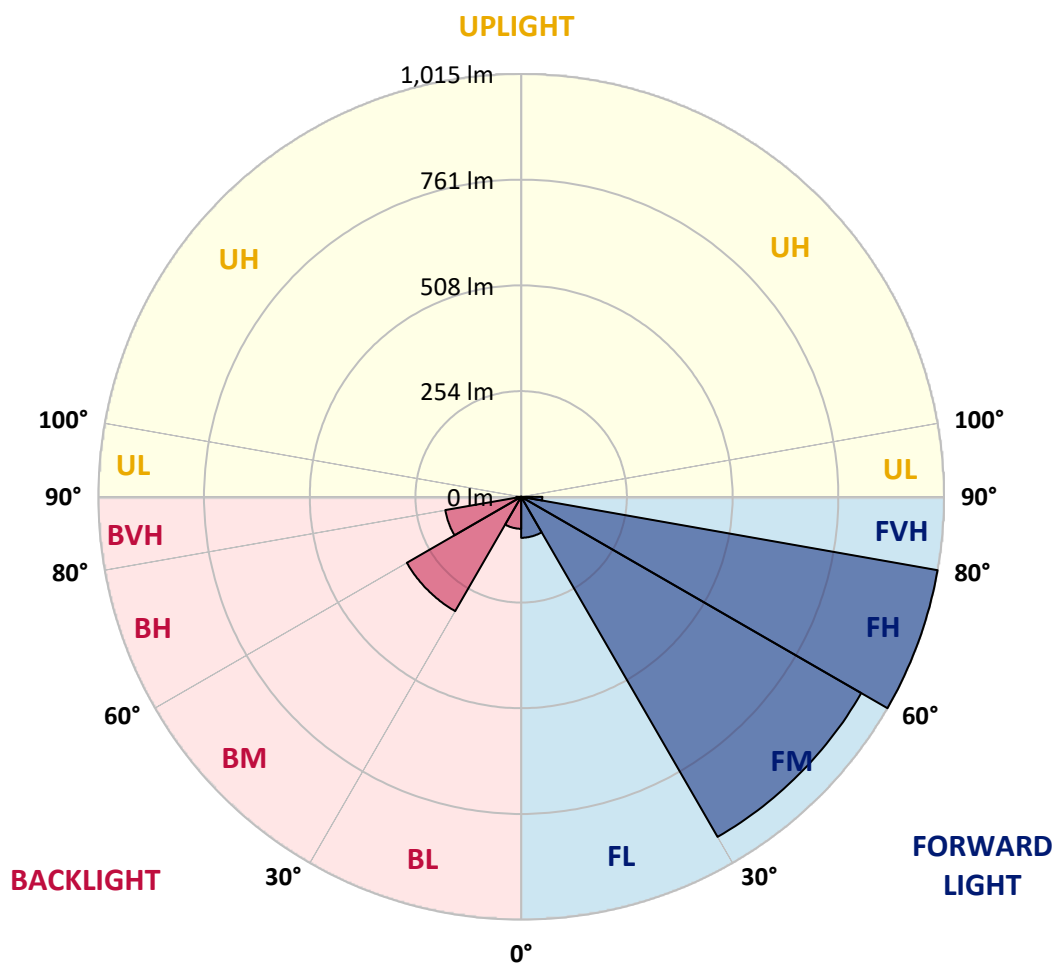
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	98.4	3.6			
FM	(30°-60°)	942.8	35.0			
FH	(60°-80°)	1015.2	37.6			G1/1800
FVH	(80°-90°)	50.9	1.9			G1/100
BL	(0°-30°)	76.8	2.8	B0/110		
BM	(30°-60°)	317.0	11.8	B1/1000		
BH	(60°-80°)	184.9	6.9	B1/500		G1/500
BVH	(80°-90°)	11.4	0.4			G1/100
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°	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
2.5°	77.0	76.4	76.4	77.0	75.9	75.4	65.7	63.6	61.6	60.0	58.5
5°	63.6	64.1	63.6	63.6	65.2	63.1	69.3	70.3	72.9	73.9	75.9
7.5°	102.1	102.6	101.6	100.6	82.6	66.2	64.1	64.1	64.1	66.2	65.7
10°	108.3	108.3	107.2	106.2	103.1	98.5	71.8	72.3	84.7	75.4	89.3
12.5°	151.4	152.4	150.3	143.1	110.3	137.0	138.0	136.5	135.4	131.9	128.8
15°	163.2	166.7	160.6	152.9	178.0	151.4	145.2	143.7	142.6	142.6	150.8
17.5°	225.2	226.3	221.6	207.3	188.3	180.6	178.5	177.5	177.0	177.0	178.0
20°	268.8	271.9	237.5	247.8	229.3	208.8	201.6	201.6	202.1	198.0	192.4
22.5°	296.0	295.0	279.1	285.3	252.9	233.4	251.4	256.0	261.1	263.2	266.3
25°	351.4	350.9	311.4	284.7	277.0	262.2	265.8	270.4	274.0	282.2	297.6
27.5°	357.6	357.1	328.9	317.1	275.0	299.6	336.6	344.3	348.9	349.9	348.9
30°	403.3	402.2	380.7	330.9	314.0	326.3	361.7	369.4	373.5	376.6	376.6
32.5°	450.5	450.5	409.9	347.8	338.1	373.0	425.3	427.9	431.0	431.5	432.5
35°	485.3	474.6	427.9	390.4	375.6	412.5	478.2	479.7	488.9	513.1	520.2
37.5°	503.8	504.8	487.4	442.3	443.8	485.3	587.4	589.5	591.0	597.2	605.9
40°	533.6	538.7	526.4	498.7	511.0	576.7	682.4	689.0	694.7	695.7	712.6
42.5°	563.8	567.9	568.5	576.7	587.4	672.1	774.2	780.9	779.8	787.5	813.2
45°	614.6	620.8	631.1	640.8	664.9	760.3	865.5	875.8	867.6	887.1	903.5
47.5°	679.8	684.4	701.9	727.5	737.3	837.8	960.9	963.5	970.7	991.2	997.4
50°	737.3	742.9	765.0	798.8	810.6	905.5	1033.8	1034.8	1046.6	1075.9	1064.1
52.5°	780.9	787.0	806.0	858.9	877.3	981.0	1090.2	1090.8	1111.3	1138.5	1114.4
55°	805.0	811.6	824.5	884.5	920.4	1036.9	1156.9	1160.0	1189.3	1204.1	1185.7
57.5°	806.0	812.2	827.0	879.4	938.9	1094.9	1249.3	1264.7	1295.5	1313.9	1313.9
60°	796.8	804.5	818.8	864.0	956.3	1159.5	1391.4	1423.2	1472.5	1490.4	1530.9
62.5°	772.7	776.2	785.0	836.8	982.0	1237.0	1596.1	1649.0	1721.8	1733.1	1815.7
65°	717.8	719.8	730.6	789.6	981.0	1307.8	1781.8	1851.1	1932.7	1940.4	2019.4
67.5°	645.9	650.6	658.8	715.2	888.1	1280.6	1797.7	1888.0	1951.7	1954.2	2020.4
70°	534.6	532.5	542.3	582.3	715.7	1073.8	1625.4	1710.0	1753.1	1771.1	1816.2
72.5°	350.4	351.4	344.3	368.9	482.3	756.2	1309.3	1403.7	1423.2	1466.8	1489.4
75°	197.0	192.9	200.6	221.1	271.9	455.1	891.2	974.8	1015.3	1051.2	1070.7
77.5°	117.0	115.4	128.3	157.0	219.6	305.3	514.1	555.6	589.0	616.7	652.1
80°	54.4	58.0	56.9	64.6	119.5	261.1	357.1	373.5	387.9	403.8	425.3
82.5°	26.7	29.2	33.9	35.4	42.1	131.9	318.6	335.0	348.9	364.8	386.3
85°	17.4	18.0	25.1	25.7	26.2	40.0	156.0	180.6	190.3	217.0	254.0
87.5°	6.2	8.7	18.5	16.4	16.4	19.5	52.8	58.0	60.5	66.2	73.9
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°	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
2.5°	58.0	58.0	55.9	53.9	52.8	52.8	51.3	51.3	50.8	50.3	49.3
5°	75.4	76.4	76.4	76.4	75.9	75.4	74.9	73.9	72.9	70.8	69.3
7.5°	64.1	63.1	62.1	60.0	60.5	62.1	63.6	65.7	68.7	70.3	70.8
10°	90.3	92.9	92.3	92.9	92.3	93.4	93.4	94.4	93.9	94.4	95.4
12.5°	123.6	113.4	103.6	101.6	101.1	100.6	101.6	101.1	103.6	105.2	105.2
15°	155.5	166.2	166.7	172.4	171.4	163.2	154.4	151.9	149.8	149.8	144.7
17.5°	178.5	182.1	182.6	181.1	183.2	182.6	180.1	177.0	173.4	166.7	157.0
20°	212.9	218.0	221.1	224.2	230.4	225.7	224.7	245.2	247.8	249.9	247.8
22.5°	270.4	269.9	268.3	260.1	256.0	255.5	257.0	261.1	260.6	262.2	263.7
25°	304.8	304.2	308.3	323.2	327.3	342.2	338.1	338.1	340.7	343.2	339.1
27.5°	346.3	350.9	356.6	356.1	363.2	361.2	360.7	364.8	364.8	359.6	362.7
30°	379.1	393.5	413.0	419.2	415.1	415.1	420.7	426.3	424.8	424.3	425.3
32.5°	438.7	453.0	440.7	454.6	446.4	459.7	480.7	495.1	500.2	499.7	507.4
35°	534.6	537.2	529.5	535.1	544.9	547.4	549.5	549.5	543.3	553.6	558.2
37.5°	616.2	603.4	614.6	608.0	615.2	623.4	622.3	612.6	609.5	626.4	624.9
40°	719.8	699.3	713.7	710.1	714.2	716.7	705.4	698.8	707.0	712.1	711.1
42.5°	796.3	807.0	807.5	806.0	809.6	810.1	789.6	792.7	802.4	800.9	795.7
45°	878.9	896.8	887.1	901.9	903.5	883.5	878.9	892.2	895.3	890.1	884.0
47.5°	979.4	991.2	974.8	997.4	997.9	975.3	985.6	994.8	996.9	986.6	995.8
50°	1066.1	1067.1	1063.6	1081.0	1070.7	1059.5	1082.0	1087.2	1082.5	1068.7	1083.1
52.5°	1137.4	1123.6	1138.0	1162.1	1134.4	1135.9	1169.8	1165.7	1151.3	1164.6	1154.9
55°	1214.9	1202.6	1237.0	1248.3	1222.6	1246.2	1269.8	1264.2	1247.7	1274.9	1256.0
57.5°	1331.4	1334.5	1364.7	1373.4	1362.7	1415.0	1426.3	1424.7	1425.3	1443.2	1435.0
60°	1541.2	1571.5	1606.4	1633.0	1650.5	1712.6	1713.6	1714.6	1734.6	1743.4	1772.6
62.5°	1810.0	1890.1	1909.6	1941.9	2006.5	2066.1	2053.2	2054.8	2080.4	2059.9	2097.9
65°	2027.1	2112.2	2173.8	2178.4	2268.7	2286.7	2257.4	2288.2	2283.1	2283.1	2299.5
67.5°	2047.6	2135.3	2190.7	2214.8	2319.5	2314.9	2286.7	2332.9	2305.7	2328.7	2322.1
70°	1863.9	1929.6	1987.1	2038.4	2132.8	2127.6	2129.2	2192.8	2189.2	2207.2	2188.7
72.5°	1542.7	1600.7	1632.5	1725.9	1750.5	1746.9	1785.4	1790.6	1819.3	1858.3	1834.2
75°	1155.4	1193.4	1195.9	1258.0	1248.3	1236.5	1242.1	1262.6	1209.3	1175.4	1148.2
77.5°	705.4	714.2	706.0	698.3	673.1	648.5	661.8	650.6	616.2	594.1	567.9
80°	444.3	455.1	459.2	483.8	477.1	498.2	514.1	530.0	534.6	515.6	497.1
82.5°	411.5	415.1	427.4	452.5	457.1	484.3	487.9	497.7	480.7	470.0	436.6
85°	264.7	272.9	298.1	282.2	303.7	304.2	293.0	291.9	259.1	242.2	203.7
87.5°	81.1	83.1	92.9	93.4	105.7	107.7	111.3	107.7	96.5	81.1	67.2
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°	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
2.5°	48.7	48.2	47.7	47.7	47.7	47.2	47.2	47.2	47.2	46.7	46.7
5°	66.2	63.6	60.5	56.4	52.3	50.8	50.8	49.8	49.3	48.7	48.2
7.5°	70.8	70.3	70.3	70.3	69.3	68.2	67.2	62.6	53.4	49.3	48.7
10°	95.4	98.5	103.6	108.8	109.8	109.8	108.8	106.7	104.7	102.1	93.9
12.5°	104.7	104.7	103.1	101.6	103.6	108.3	112.9	114.9	114.4	113.4	112.9
15°	143.1	143.1	142.6	141.6	141.6	141.1	141.6	144.2	147.2	150.3	150.3
17.5°	157.0	156.0	156.5	158.0	151.9	150.3	149.8	147.2	146.7	148.8	150.3
20°	245.2	241.6	231.4	230.4	228.3	227.3	226.8	223.7	222.2	226.3	226.8
22.5°	261.7	266.3	263.2	278.6	253.4	254.5	270.9	280.1	280.1	278.6	276.0
25°	343.7	340.7	344.3	345.3	340.2	344.3	336.6	332.5	326.8	326.3	327.3
27.5°	363.8	372.5	374.0	388.4	397.1	393.0	408.9	402.2	396.6	392.0	396.1
30°	432.0	429.4	433.5	435.1	440.7	437.6	432.0	435.1	439.7	446.9	441.2
32.5°	514.1	518.2	521.8	522.8	525.9	521.8	522.3	532.5	539.2	531.5	519.7
35°	563.3	563.3	570.0	569.0	563.3	565.4	582.8	586.9	579.7	574.6	582.8
37.5°	626.4	625.4	625.9	627.5	623.9	643.4	652.6	642.3	634.6	650.6	643.9
40°	703.9	711.1	704.9	706.0	721.4	732.6	722.9	715.2	734.2	722.4	712.6
42.5°	800.4	793.7	785.0	802.9	817.3	809.6	798.3	817.8	812.2	795.7	824.0
45°	895.8	887.1	888.6	904.5	910.2	894.3	904.5	918.4	892.7	919.4	929.7
47.5°	979.9	984.0	1002.0	1016.9	997.4	1002.0	1017.4	996.3	1015.8	1035.9	1033.8
50°	1068.7	1086.6	1099.0	1096.4	1083.1	1112.3	1098.4	1090.8	1132.3	1138.0	1144.1
52.5°	1152.3	1179.5	1182.1	1166.2	1186.7	1203.1	1184.1	1237.5	1254.9	1259.0	1276.5
55°	1270.8	1295.5	1285.2	1281.6	1332.9	1321.1	1359.6	1425.8	1434.0	1450.4	1453.5
57.5°	1467.8	1486.3	1475.5	1517.1	1558.7	1551.5	1666.4	1700.3	1746.9	1756.2	1764.9
60°	1808.5	1794.1	1794.1	1883.4	1872.6	1946.5	2029.6	2038.9	2089.2	2092.7	2103.0
62.5°	2103.0	2096.8	2145.1	2171.2	2166.1	2300.5	2322.1	2352.3	2346.7	2357.0	2294.9
65°	2272.3	2254.9	2305.7	2271.3	2369.3	2429.3	2437.0	2451.4	2427.3	2392.9	2353.9
67.5°	2274.4	2277.4	2282.6	2259.5	2371.3	2375.4	2388.3	2367.2	2346.7	2257.9	2217.9
70°	2148.2	2168.2	2124.6	2166.1	2210.7	2186.6	2178.4	2123.5	2069.7	1976.8	1897.8
72.5°	1797.7	1771.1	1744.9	1776.2	1754.6	1710.5	1657.7	1589.4	1489.4	1419.1	1343.2
75°	1085.6	1035.9	1062.0	1016.4	951.7	933.8	873.7	854.7	774.7	672.6	634.1
77.5°	541.8	490.0	496.6	457.6	408.4	367.9	305.8	250.4	199.6	154.4	126.2
80°	453.5	428.4	403.3	362.2	320.7	266.3	210.9	149.3	101.6	74.4	63.6
82.5°	390.4	383.3	334.0	294.5	248.3	202.1	142.6	98.5	63.6	49.3	45.7
85°	180.6	162.6	141.1	134.9	106.2	86.7	64.6	47.7	36.9	32.8	30.3
87.5°	65.2	55.9	51.8	44.6	39.0	35.4	33.3	32.3	32.3	32.3	30.8
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°	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
2.5°	46.7	46.7	46.2	46.2	46.2	46.2	46.2	45.7	45.7	45.7	46.7
5°	48.2	47.7	47.7	47.2	47.2	47.2	46.7	46.7	46.2	47.7	64.1
7.5°	48.7	49.3	49.3	49.3	49.3	49.3	48.7	48.7	48.7	54.4	63.1
10°	83.6	80.5	80.0	79.0	78.0	77.5	76.4	74.9	77.0	104.7	72.9
12.5°	109.8	98.0	88.8	87.2	86.2	84.7	84.7	80.5	84.1	100.0	78.0
15°	149.3	145.7	135.4	125.7	126.7	126.7	125.7	125.2	115.9	117.0	118.5
17.5°	153.9	161.6	167.3	154.4	142.6	134.9	137.0	147.8	132.9	127.2	151.9
20°	226.3	228.8	229.8	222.7	206.8	206.8	209.3	211.9	200.1	198.0	197.5
22.5°	271.4	274.5	272.4	275.5	271.4	268.8	263.7	258.1	251.9	227.3	243.2
25°	328.4	336.0	340.2	333.5	323.7	311.9	308.3	308.9	319.1	317.6	336.6
27.5°	401.2	397.1	392.0	396.6	400.7	387.9	383.3	378.6	376.1	415.1	369.4
30°	427.4	424.3	431.0	424.3	423.3	428.9	434.0	425.8	425.3	456.6	418.7
32.5°	525.4	523.3	507.9	514.1	520.7	521.8	521.3	530.0	524.9	531.5	439.7
35°	572.6	561.8	576.7	578.7	571.5	580.8	580.8	578.7	592.6	565.4	457.1
37.5°	636.2	643.9	653.6	656.7	664.4	647.5	661.3	663.9	685.4	598.7	444.3
40°	737.8	743.4	749.6	748.5	740.8	759.3	741.4	748.5	772.7	618.2	429.9
42.5°	832.2	837.3	846.5	846.0	849.1	839.9	854.2	849.1	852.2	623.4	412.0
45°	932.2	945.0	936.3	955.3	950.2	946.6	955.3	952.2	920.9	633.1	381.7
47.5°	1045.6	1042.5	1051.2	1051.2	1054.8	1061.0	1051.8	1054.3	980.4	639.8	348.9
50°	1144.6	1149.2	1158.0	1156.9	1164.6	1157.4	1166.2	1137.4	1029.7	635.7	306.8
52.5°	1273.4	1291.9	1282.1	1287.2	1279.0	1291.9	1265.2	1251.8	1096.9	616.2	263.7
55°	1487.3	1458.6	1477.1	1456.6	1458.1	1454.5	1420.6	1411.4	1194.9	605.9	214.5
57.5°	1755.2	1752.1	1738.2	1712.6	1706.4	1684.4	1656.1	1623.3	1351.4	602.8	173.9
60°	2079.9	2067.6	2024.5	2000.4	1956.3	1911.6	1887.0	1847.0	1518.1	589.5	143.7
62.5°	2289.8	2237.4	2206.1	2148.7	2107.6	2055.8	2015.8	1941.4	1565.3	559.7	127.2
65°	2300.0	2251.3	2197.9	2130.2	2064.0	2018.9	1946.5	1877.3	1494.5	483.8	106.2
67.5°	2151.7	2098.9	1993.2	1942.9	1878.3	1824.9	1737.7	1677.2	1313.9	388.4	84.1
70°	1853.7	1764.4	1666.9	1599.2	1544.3	1481.7	1399.6	1333.4	1048.7	285.8	65.2
72.5°	1283.7	1232.4	1142.6	1108.2	1054.3	1024.1	980.4	954.3	741.9	196.5	53.9
75°	624.4	585.9	532.0	543.3	505.4	513.6	519.2	488.9	409.9	111.3	46.7
77.5°	116.5	122.1	108.8	108.8	110.3	105.2	106.2	115.4	114.9	56.4	39.5
80°	59.5	58.5	56.4	55.4	52.8	51.3	49.3	48.2	46.7	40.5	34.4
82.5°	43.1	40.5	38.0	36.4	34.9	32.8	31.3	31.8	34.9	40.0	36.9
85°	27.7	26.7	24.6	24.1	23.6	23.1	23.6	24.6	33.3	47.7	36.4
87.5°	29.8	27.2	24.6	23.6	23.1	22.1	21.5	23.1	35.4	51.8	31.3
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):

	125°	135°	145°	155°	165°	175°	180°
0°	46.2	46.2	46.2	46.2	46.2	46.2	46.2
2.5°	47.7	51.3	63.1	72.3	73.4	73.4	72.9
5°	71.8	49.8	46.2	47.2	45.1	45.7	45.1
7.5°	45.7	45.7	46.7	64.6	72.9	75.9	73.9
10°	54.4	72.3	73.4	76.4	77.0	76.4	75.9
12.5°	105.7	104.1	79.5	84.7	110.3	111.8	111.3
15°	113.9	112.9	137.5	113.9	118.0	119.0	118.0
17.5°	148.8	148.8	148.3	136.5	153.4	153.4	152.9
20°	176.0	183.2	178.0	170.8	150.3	150.8	150.8
22.5°	249.3	203.7	194.4	186.2	168.8	168.8	168.3
25°	257.0	228.8	204.2	178.5	163.7	179.1	177.5
27.5°	331.4	239.1	191.9	181.6	162.6	158.0	158.0
30°	326.3	252.4	214.5	165.7	157.0	150.3	147.2
32.5°	345.3	249.9	189.3	150.8	127.8	125.2	122.1
35°	334.5	237.0	162.1	120.1	98.0	93.4	93.4
37.5°	323.2	202.1	130.8	89.3	78.0	74.4	74.9
40°	284.7	162.6	90.8	68.7	68.7	69.3	69.3
42.5°	243.2	112.9	66.7	59.0	62.1	64.1	63.6
45°	191.4	75.9	53.9	54.4	58.5	60.0	60.0
47.5°	136.5	56.4	49.3	50.8	55.4	57.5	56.9
50°	92.9	48.2	46.2	48.7	53.4	54.4	54.4
52.5°	67.2	45.7	44.1	46.7	51.3	52.3	52.3
55°	55.9	44.6	43.1	45.1	49.3	50.3	50.8
57.5°	52.8	44.6	42.6	44.6	47.7	48.7	48.7
60°	52.8	45.1	43.6	44.6	46.2	47.2	47.7
62.5°	53.9	47.7	45.7	45.7	45.7	46.2	46.2
65°	55.9	52.3	49.3	47.7	45.7	44.1	44.6
67.5°	58.5	56.9	54.4	50.3	44.6	41.6	41.6
70°	60.5	61.6	60.5	52.3	43.6	38.5	38.0
72.5°	60.0	65.2	61.6	52.8	42.6	35.9	35.4
75°	56.4	60.5	53.4	47.7	40.0	33.9	32.8
77.5°	49.3	44.6	36.9	36.9	33.3	30.3	29.2
80°	39.5	29.8	24.6	26.2	25.1	19.0	16.4
82.5°	31.3	19.5	18.5	19.5	19.0	13.9	11.8
85°	25.7	13.3	13.3	14.9	13.3	10.3	7.7
87.5°	20.0	7.7	8.7	8.2	8.2	6.2	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)