

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: P157065

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157065
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (7) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2170.1 lumens
Efficiency: N/A
Efficacy: 83.8 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



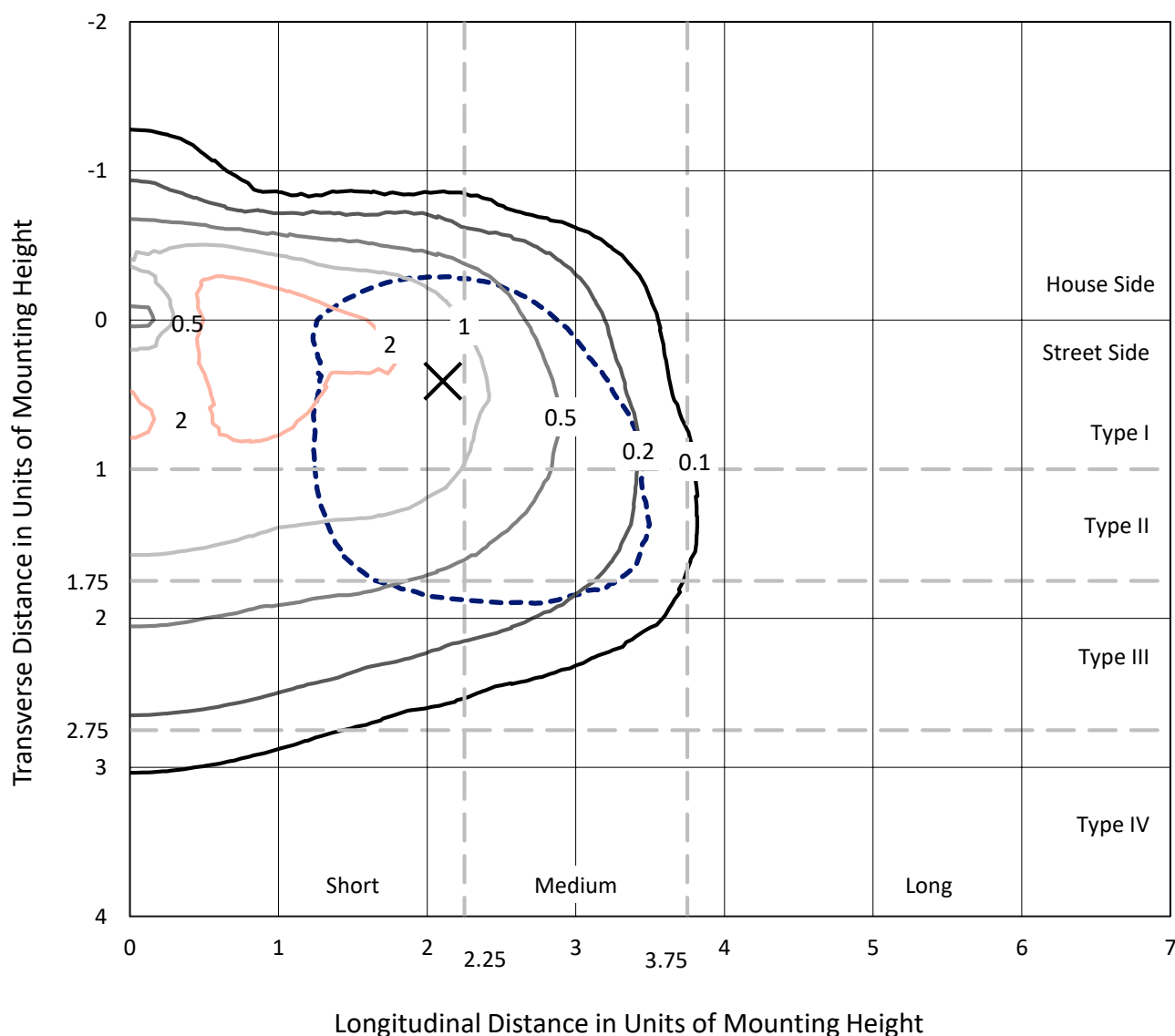
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

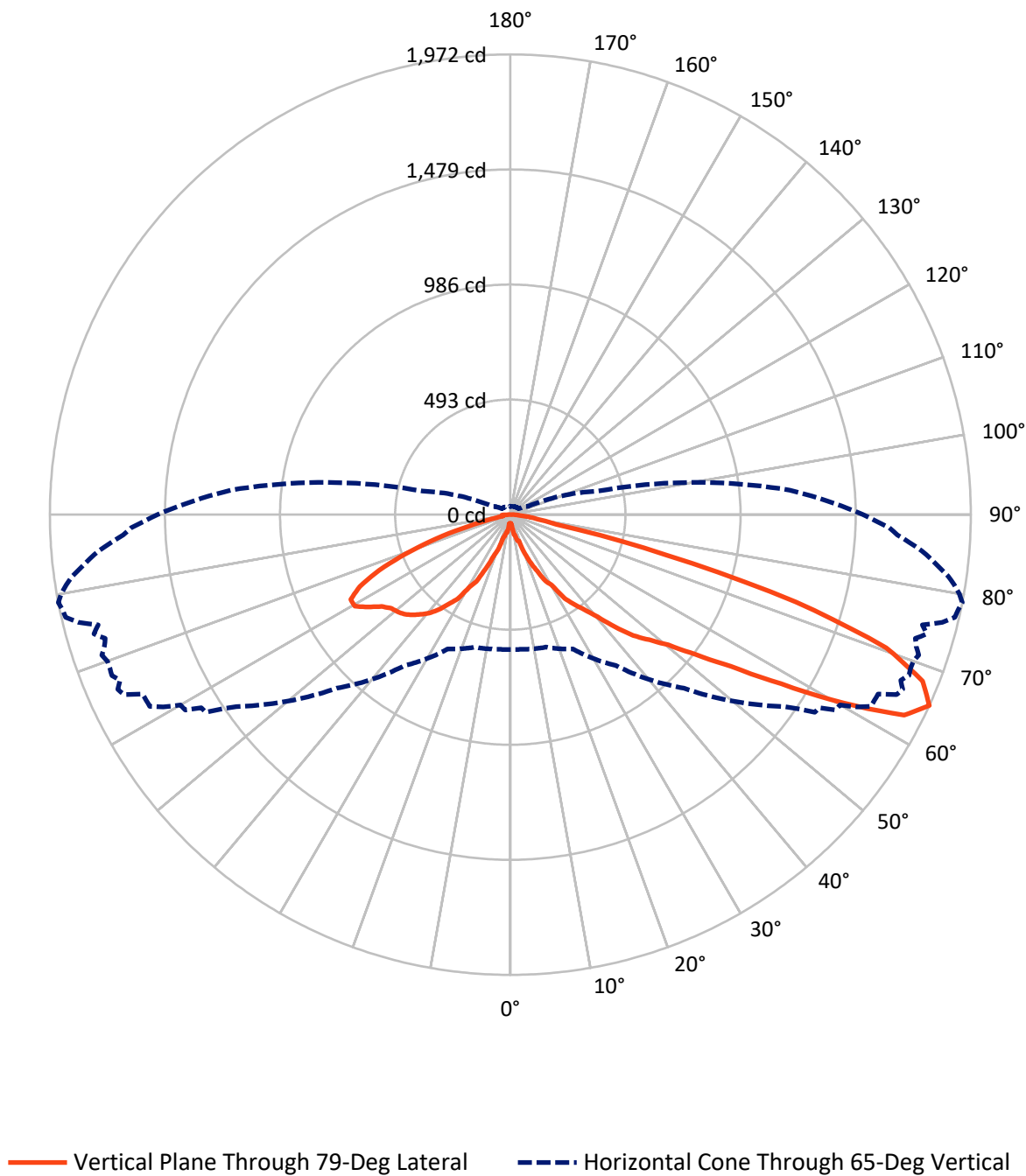


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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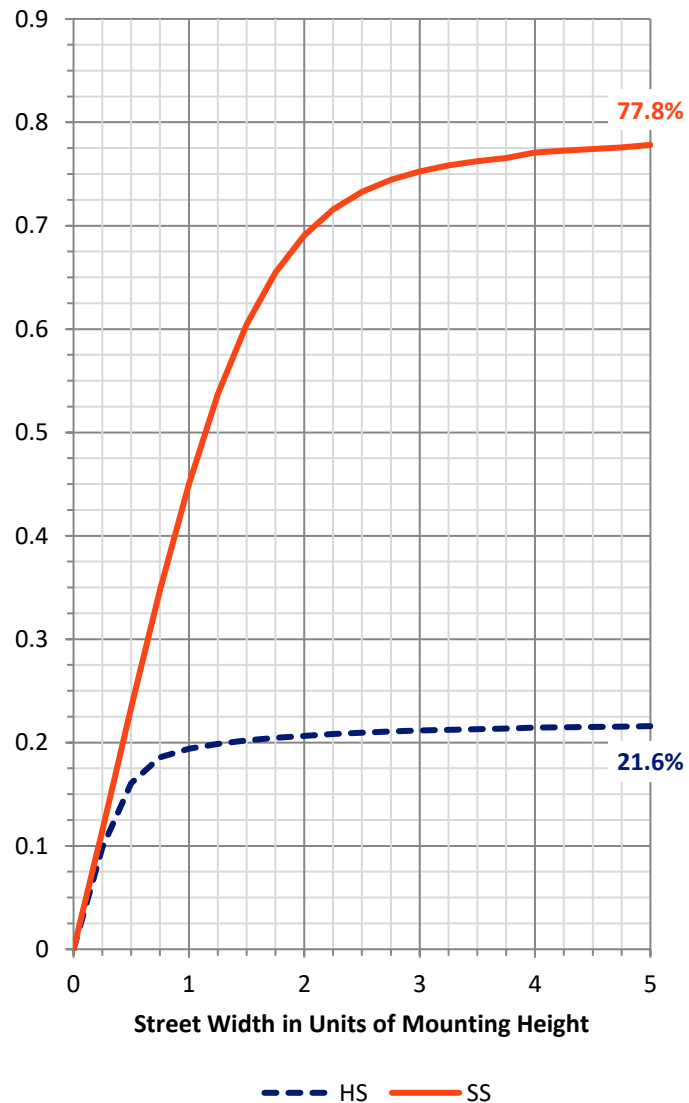
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	474.7	0.0	474.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	1695.4	0.0	1695.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	2170.1	0.0	2170.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.2
10°-20°	33.2	1.5
20°-30°	102.5	4.7
30°-40°	197.3	9.1
40°-50°	326.0	15.0
50°-60°	490.3	22.6
60°-70°	656.8	30.3
70°-80°	308.7	14.2
80°-90°	50.1	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°	2170.1	100.0
0°-180°	2170.1	100.0

Coefficient of Utilization



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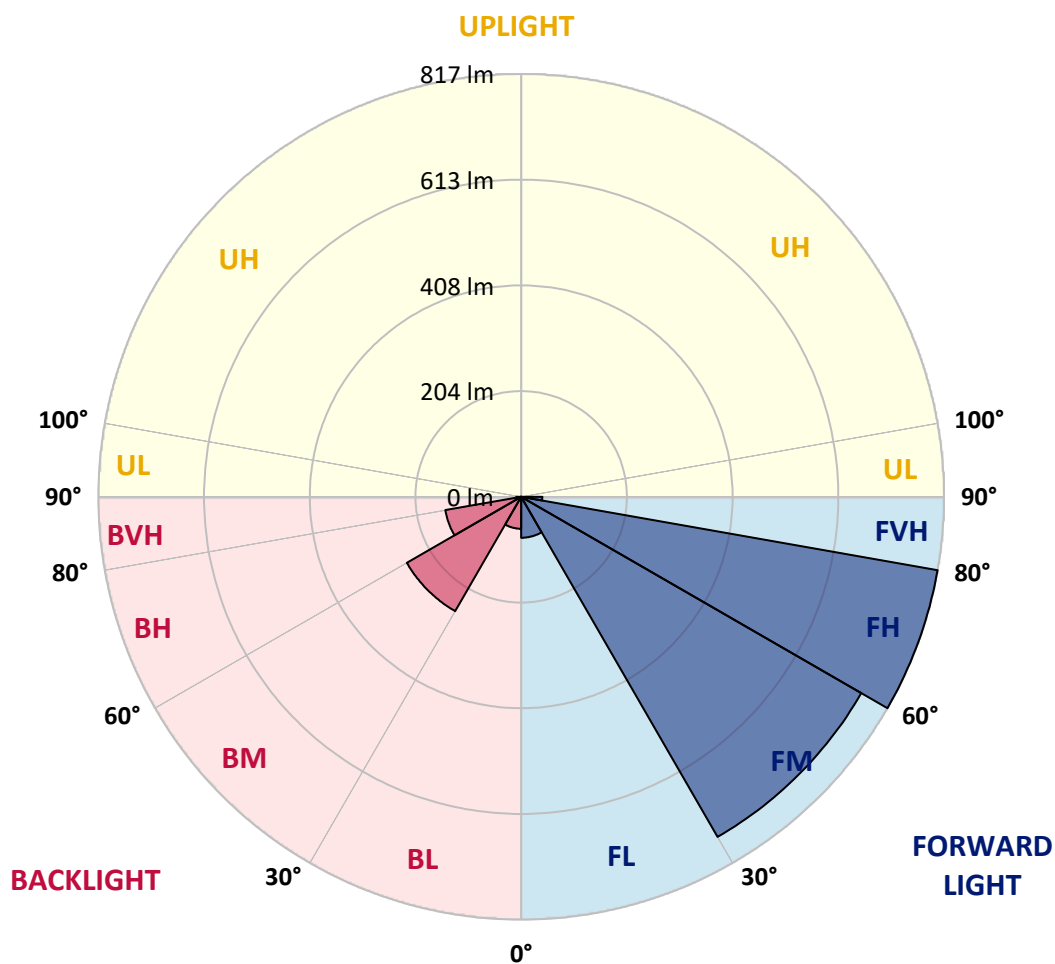
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	79.1	3.6			
FM	(30°-60°)	758.5	35.0			
FH	(60°-80°)	816.7	37.6			G1/1800
FVH	(80°-90°)	40.9	1.9			G1/100
BL	(0°-30°)	61.8	2.8	B0/110		
BM	(30°-60°)	255.1	11.8	B1/1000		
BH	(60°-80°)	148.7	6.9	B1/500		G1/500
BVH	(80°-90°)	9.2	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°	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
2.5°	61.9	61.5	61.5	61.9	61.1	60.7	52.8	51.2	49.5	48.3	47.1
5°	51.2	51.6	51.2	51.2	52.4	50.8	55.7	56.5	58.6	59.4	61.1
7.5°	82.1	82.6	81.7	80.9	66.5	53.2	51.6	51.6	51.6	53.2	52.8
10°	87.1	87.1	86.3	85.4	83.0	79.3	57.8	58.2	68.1	60.7	71.8
12.5°	121.8	122.6	120.9	115.2	88.7	110.2	111.0	109.8	109.0	106.1	103.6
15°	131.3	134.1	129.2	123.0	143.2	121.8	116.8	115.6	114.7	114.7	121.4
17.5°	181.2	182.0	178.3	166.8	151.5	145.3	143.6	142.8	142.4	142.4	143.2
20°	216.3	218.8	191.1	199.4	184.5	168.0	162.2	162.2	162.6	159.3	154.8
22.5°	238.2	237.3	224.5	229.5	203.5	187.8	202.3	206.0	210.1	211.7	214.2
25°	282.7	282.3	250.5	229.1	222.9	210.9	213.8	217.5	220.4	227.0	239.4
27.5°	287.7	287.3	264.6	255.1	221.2	241.1	270.8	277.0	280.7	281.5	280.7
30°	324.4	323.6	306.3	266.2	252.6	262.5	291.0	297.2	300.5	303.0	303.0
32.5°	362.4	362.4	329.8	279.9	272.0	300.1	342.2	344.2	346.7	347.1	348.0
35°	390.5	381.8	344.2	314.1	302.1	331.9	384.7	385.9	393.4	412.8	418.5
37.5°	405.3	406.2	392.1	355.8	357.0	390.5	472.6	474.3	475.5	480.5	487.5
40°	429.3	433.4	423.5	401.2	411.1	463.9	549.0	554.3	558.9	559.7	573.3
42.5°	453.6	456.9	457.3	463.9	472.6	540.7	622.9	628.2	627.4	633.6	654.2
45°	494.5	499.4	507.7	515.5	534.9	611.7	696.3	704.6	698.0	713.7	726.9
47.5°	546.9	550.6	564.7	585.3	593.1	674.0	773.1	775.2	780.9	797.5	802.4
50°	593.1	597.7	615.4	642.7	652.2	728.5	831.7	832.5	842.0	865.6	856.1
52.5°	628.2	633.2	648.4	691.0	705.8	789.2	877.1	877.5	894.0	915.9	896.5
55°	647.6	653.0	663.3	711.6	740.5	834.2	930.8	933.3	956.8	968.8	953.9
57.5°	648.4	653.4	665.4	707.5	755.4	880.8	1005.1	1017.5	1042.2	1057.1	1057.1
60°	641.0	647.2	658.8	695.1	769.4	932.8	1119.4	1145.0	1184.6	1199.1	1231.7
62.5°	621.6	624.5	631.5	673.2	790.0	995.2	1284.1	1326.6	1385.2	1394.3	1460.8
65°	577.5	579.1	587.8	635.2	789.2	1052.1	1433.5	1489.2	1554.9	1561.1	1624.6
67.5°	519.7	523.4	530.0	575.4	714.5	1030.3	1446.3	1519.0	1570.1	1572.2	1625.5
70°	430.1	428.4	436.3	468.5	575.8	863.9	1307.6	1375.7	1410.4	1424.9	1461.2
72.5°	281.9	282.7	277.0	296.8	388.0	608.4	1053.4	1129.3	1145.0	1180.1	1198.2
75°	158.5	155.2	161.4	177.9	218.8	366.1	717.0	784.2	816.9	845.8	861.4
77.5°	94.1	92.9	103.2	126.3	176.7	245.6	413.6	447.0	473.9	496.1	524.6
80°	43.8	46.6	45.8	52.0	96.2	210.1	287.3	300.5	312.0	324.8	342.2
82.5°	21.5	23.5	27.2	28.5	33.8	106.1	256.3	269.5	280.7	293.5	310.8
85°	14.0	14.4	20.2	20.6	21.1	32.2	125.5	145.3	153.1	174.6	204.3
87.5°	5.0	7.0	14.9	13.2	13.2	15.7	42.5	46.6	48.7	53.2	59.4
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
2.5°	46.6	46.6	45.0	43.3	42.5	42.5	41.3	41.3	40.9	40.5	39.6
5°	60.7	61.5	61.5	61.5	61.1	60.7	60.3	59.4	58.6	57.0	55.7
7.5°	51.6	50.8	49.9	48.3	48.7	49.9	51.2	52.8	55.3	56.5	57.0
10°	72.6	74.7	74.3	74.7	74.3	75.1	75.1	75.9	75.5	75.9	76.8
12.5°	99.5	91.2	83.4	81.7	81.3	80.9	81.7	81.3	83.4	84.6	84.6
15°	125.1	133.7	134.1	138.7	137.9	131.3	124.2	122.2	120.5	120.5	116.4
17.5°	143.6	146.5	146.9	145.7	147.4	146.9	144.9	142.4	139.5	134.1	126.3
20°	171.3	175.4	177.9	180.4	185.3	181.6	180.8	197.3	199.4	201.0	199.4
22.5°	217.5	217.1	215.9	209.3	206.0	205.6	206.8	210.1	209.7	210.9	212.2
25°	245.2	244.8	248.1	260.0	263.3	275.3	272.0	272.0	274.1	276.1	272.8
27.5°	278.6	282.3	286.9	286.5	292.2	290.6	290.2	293.5	293.5	289.3	291.8
30°	305.0	316.6	332.3	337.2	333.9	333.9	338.5	343.0	341.8	341.4	342.2
32.5°	352.9	364.5	354.6	365.7	359.1	369.8	386.8	398.3	402.4	402.0	408.2
35°	430.1	432.2	426.0	430.5	438.4	440.4	442.1	442.1	437.1	445.4	449.1
37.5°	495.7	485.4	494.5	489.1	494.9	501.5	500.7	492.8	490.4	504.0	502.7
40°	579.1	562.6	574.2	571.3	574.6	576.6	567.5	562.2	568.8	572.9	572.1
42.5°	640.6	649.3	649.7	648.4	651.3	651.8	635.2	637.7	645.6	644.3	640.2
45°	707.1	721.5	713.7	725.6	726.9	710.8	707.1	717.8	720.3	716.1	711.2
47.5°	788.0	797.5	784.2	802.4	802.8	784.7	792.9	800.3	802.0	793.7	801.2
50°	857.7	858.5	855.7	869.7	861.4	852.4	870.5	874.6	870.9	859.8	871.3
52.5°	915.1	903.9	915.5	934.9	912.6	913.9	941.1	937.8	926.2	937.0	929.1
55°	977.4	967.5	995.2	1004.3	983.6	1002.6	1021.6	1017.0	1003.8	1025.7	1010.4
57.5°	1071.1	1073.6	1097.9	1105.0	1096.3	1138.4	1147.5	1146.2	1146.7	1161.1	1154.5
60°	1239.9	1264.3	1292.4	1313.8	1327.9	1377.8	1378.6	1379.5	1395.5	1402.6	1426.1
62.5°	1456.2	1520.6	1536.3	1562.3	1614.3	1662.2	1651.9	1653.1	1673.8	1657.2	1687.8
65°	1630.8	1699.3	1748.9	1752.6	1825.2	1839.7	1816.2	1840.9	1836.8	1836.8	1850.0
67.5°	1647.3	1717.9	1762.5	1781.9	1866.1	1862.4	1839.7	1876.8	1855.0	1873.5	1868.2
70°	1499.6	1552.4	1598.6	1639.9	1715.9	1711.7	1713.0	1764.1	1761.3	1775.7	1760.8
72.5°	1241.2	1287.8	1313.4	1388.5	1408.3	1405.5	1436.4	1440.5	1463.7	1495.0	1475.6
75°	929.5	960.1	962.1	1012.1	1004.3	994.8	999.3	1015.8	972.9	945.6	923.8
77.5°	567.5	574.6	568.0	561.8	541.5	521.7	532.5	523.4	495.7	478.0	456.9
80°	357.5	366.1	369.4	389.2	383.9	400.8	413.6	426.4	430.1	414.8	400.0
82.5°	331.0	333.9	343.8	364.1	367.8	389.6	392.5	400.4	386.8	378.1	351.3
85°	213.0	219.6	239.8	227.0	244.4	244.8	235.7	234.9	208.4	194.8	163.9
87.5°	65.2	66.9	74.7	75.1	85.0	86.7	89.6	86.7	77.6	65.2	54.1
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°	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
2.5°	39.2	38.8	38.4	38.4	38.4	38.0	38.0	38.0	38.0	37.6	37.6
5°	53.2	51.2	48.7	45.4	42.1	40.9	40.9	40.0	39.6	39.2	38.8
7.5°	57.0	56.5	56.5	56.5	55.7	54.9	54.1	50.4	42.9	39.6	39.2
10°	76.8	79.3	83.4	87.5	88.3	88.3	87.5	85.9	84.2	82.1	75.5
12.5°	84.2	84.2	83.0	81.7	83.4	87.1	90.8	92.5	92.0	91.2	90.8
15°	115.2	115.2	114.7	113.9	113.9	113.5	113.9	116.0	118.5	120.9	120.9
17.5°	126.3	125.5	125.9	127.1	122.2	120.9	120.5	118.5	118.1	119.7	120.9
20°	197.3	194.4	186.2	185.3	183.7	182.9	182.4	180.0	178.7	182.0	182.4
22.5°	210.5	214.2	211.7	224.1	203.9	204.7	217.9	225.4	225.4	224.1	222.1
25°	276.6	274.1	277.0	277.8	273.7	277.0	270.8	267.5	262.9	262.5	263.3
27.5°	292.6	299.7	300.9	312.5	319.5	316.2	329.0	323.6	319.1	315.4	318.7
30°	347.5	345.5	348.8	350.0	354.6	352.1	347.5	350.0	353.7	359.5	355.0
32.5°	413.6	416.9	419.8	420.6	423.1	419.8	420.2	428.4	433.8	427.6	418.1
35°	453.2	453.2	458.6	457.8	453.2	454.9	468.9	472.2	466.4	462.3	468.9
37.5°	504.0	503.2	503.6	504.8	501.9	517.6	525.0	516.8	510.6	523.4	518.0
40°	566.3	572.1	567.1	568.0	580.3	589.4	581.6	575.4	590.7	581.2	573.3
42.5°	643.9	638.5	631.5	646.0	657.5	651.3	642.3	657.9	653.4	640.2	662.9
45°	720.7	713.7	714.9	727.7	732.2	719.4	727.7	738.8	718.2	739.7	747.9
47.5°	788.4	791.7	806.1	818.1	802.4	806.1	818.5	801.6	817.3	833.4	831.7
50°	859.8	874.2	884.1	882.1	871.3	894.9	883.7	877.5	911.0	915.5	920.5
52.5°	927.1	948.9	951.0	938.2	954.7	967.9	952.7	995.6	1009.6	1012.9	1027.0
55°	1022.4	1042.2	1034.0	1031.1	1072.4	1062.9	1093.8	1147.1	1153.7	1166.9	1169.4
57.5°	1180.9	1195.8	1187.1	1220.5	1254.0	1248.2	1340.7	1367.9	1405.5	1412.9	1419.9
60°	1455.0	1443.4	1443.4	1515.3	1506.6	1566.0	1632.9	1640.3	1680.8	1683.7	1691.9
62.5°	1691.9	1687.0	1725.8	1746.8	1742.7	1850.8	1868.2	1892.5	1888.0	1896.2	1846.3
65°	1828.1	1814.1	1855.0	1827.3	1906.1	1954.4	1960.6	1972.2	1952.8	1925.1	1893.8
67.5°	1829.8	1832.3	1836.4	1817.8	1907.8	1911.1	1921.4	1904.5	1888.0	1816.6	1784.4
70°	1728.2	1744.3	1709.2	1742.7	1778.6	1759.2	1752.6	1708.4	1665.1	1590.4	1526.8
72.5°	1446.3	1424.9	1403.8	1429.0	1411.6	1376.2	1333.6	1278.7	1198.2	1141.7	1080.6
75°	873.4	833.4	854.4	817.7	765.7	751.2	702.9	687.7	623.3	541.1	510.2
77.5°	435.9	394.2	399.6	368.2	328.6	296.0	246.0	201.4	160.6	124.2	101.5
80°	364.9	344.7	324.4	291.4	258.0	214.2	169.6	120.1	81.7	59.9	51.2
82.5°	314.1	308.3	268.7	236.9	199.8	162.6	114.7	79.3	51.2	39.6	36.7
85°	145.3	130.8	113.5	108.6	85.4	69.8	52.0	38.4	29.7	26.4	24.4
87.5°	52.4	45.0	41.7	35.9	31.4	28.5	26.8	26.0	26.0	26.0	24.8
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°	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
2.5°	37.6	37.6	37.1	37.1	37.1	37.1	37.1	36.7	36.7	36.7	37.6
5°	38.8	38.4	38.4	38.0	38.0	38.0	37.6	37.6	37.1	38.4	51.6
7.5°	39.2	39.6	39.6	39.6	39.6	39.6	39.2	39.2	39.2	43.8	50.8
10°	67.3	64.8	64.4	63.6	62.7	62.3	61.5	60.3	61.9	84.2	58.6
12.5°	88.3	78.8	71.4	70.2	69.3	68.1	68.1	64.8	67.7	80.5	62.7
15°	120.1	117.2	109.0	101.1	102.0	102.0	101.1	100.7	93.3	94.1	95.3
17.5°	123.8	130.0	134.6	124.2	114.7	108.6	110.2	118.9	106.9	102.4	122.2
20°	182.0	184.1	184.9	179.1	166.3	166.3	168.4	170.5	161.0	159.3	158.9
22.5°	218.4	220.8	219.2	221.7	218.4	216.3	212.2	207.6	202.7	182.9	195.6
25°	264.2	270.4	273.7	268.3	260.5	251.0	248.1	248.5	256.7	255.5	270.8
27.5°	322.8	319.5	315.4	319.1	322.4	312.0	308.3	304.6	302.6	333.9	297.2
30°	343.8	341.4	346.7	341.4	340.5	345.1	349.2	342.6	342.2	367.4	336.8
32.5°	422.7	421.0	408.6	413.6	419.0	419.8	419.4	426.4	422.3	427.6	353.7
35°	460.6	452.0	463.9	465.6	459.8	467.2	467.2	465.6	476.7	454.9	367.8
37.5°	511.8	518.0	525.9	528.3	534.5	520.9	532.1	534.1	551.5	481.7	357.5
40°	593.6	598.1	603.0	602.2	596.0	610.9	596.4	602.2	621.6	497.4	345.9
42.5°	669.5	673.6	681.1	680.6	683.1	675.7	687.2	683.1	685.6	501.5	331.4
45°	750.0	760.3	753.3	768.6	764.4	761.5	768.6	766.1	740.9	509.3	307.1
47.5°	841.2	838.7	845.8	845.8	848.6	853.6	846.2	848.2	788.8	514.7	280.7
50°	920.9	924.6	931.6	930.8	937.0	931.2	938.2	915.1	828.4	511.4	246.8
52.5°	1024.5	1039.3	1031.5	1035.6	1029.0	1039.3	1017.9	1007.1	882.5	495.7	212.2
55°	1196.6	1173.5	1188.3	1171.8	1173.1	1170.2	1142.9	1135.5	961.3	487.5	172.5
57.5°	1412.1	1409.6	1398.4	1377.8	1372.8	1355.1	1332.4	1306.0	1087.2	485.0	139.9
60°	1673.3	1663.4	1628.8	1609.4	1573.9	1538.0	1518.1	1485.9	1221.4	474.3	115.6
62.5°	1842.2	1800.1	1774.9	1728.6	1695.6	1653.9	1621.7	1561.9	1259.3	450.3	102.4
65°	1850.4	1811.2	1768.3	1713.8	1660.5	1624.2	1566.0	1510.3	1202.4	389.2	85.4
67.5°	1731.1	1688.6	1603.6	1563.1	1511.1	1468.2	1398.0	1349.3	1057.1	312.5	67.7
70°	1491.3	1419.5	1341.1	1286.6	1242.4	1192.1	1126.0	1072.8	843.7	229.9	52.4
72.5°	1032.7	991.5	919.2	891.6	848.2	823.9	788.8	767.7	596.9	158.1	43.3
75°	502.3	471.4	428.0	437.1	406.6	413.2	417.7	393.4	329.8	89.6	37.6
77.5°	93.7	98.2	87.5	87.5	88.7	84.6	85.4	92.9	92.5	45.4	31.8
80°	47.9	47.1	45.4	44.6	42.5	41.3	39.6	38.8	37.6	32.6	27.7
82.5°	34.7	32.6	30.5	29.3	28.1	26.4	25.2	25.6	28.1	32.2	29.7
85°	22.3	21.5	19.8	19.4	19.0	18.6	19.0	19.8	26.8	38.4	29.3
87.5°	23.9	21.9	19.8	19.0	18.6	17.7	17.3	18.6	28.5	41.7	25.2
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):

	125°	135°	145°	155°	165°	175°	180°
0°	37.1	37.1	37.1	37.1	37.1	37.1	37.1
2.5°	38.4	41.3	50.8	58.2	59.0	59.0	58.6
5°	57.8	40.0	37.1	38.0	36.3	36.7	36.3
7.5°	36.7	36.7	37.6	52.0	58.6	61.1	59.4
10°	43.8	58.2	59.0	61.5	61.9	61.5	61.1
12.5°	85.0	83.8	64.0	68.1	88.7	90.0	89.6
15°	91.6	90.8	110.6	91.6	94.9	95.8	94.9
17.5°	119.7	119.7	119.3	109.8	123.4	123.4	123.0
20°	141.6	147.4	143.2	137.4	120.9	121.4	121.4
22.5°	200.6	163.9	156.4	149.8	135.8	135.8	135.4
25°	206.8	184.1	164.3	143.6	131.7	144.1	142.8
27.5°	266.6	192.3	154.4	146.1	130.8	127.1	127.1
30°	262.5	203.1	172.5	133.3	126.3	120.9	118.5
32.5°	277.8	201.0	152.3	121.4	102.8	100.7	98.2
35°	269.1	190.7	130.4	96.6	78.8	75.1	75.1
37.5°	260.0	162.6	105.3	71.8	62.7	59.9	60.3
40°	229.1	130.8	73.1	55.3	55.3	55.7	55.7
42.5°	195.6	90.8	53.7	47.5	49.9	51.6	51.2
45°	154.0	61.1	43.3	43.8	47.1	48.3	48.3
47.5°	109.8	45.4	39.6	40.9	44.6	46.2	45.8
50°	74.7	38.8	37.1	39.2	42.9	43.8	43.8
52.5°	54.1	36.7	35.5	37.6	41.3	42.1	42.1
55°	45.0	35.9	34.7	36.3	39.6	40.5	40.9
57.5°	42.5	35.9	34.3	35.9	38.4	39.2	39.2
60°	42.5	36.3	35.1	35.9	37.1	38.0	38.4
62.5°	43.3	38.4	36.7	36.7	36.7	37.1	37.1
65°	45.0	42.1	39.6	38.4	36.7	35.5	35.9
67.5°	47.1	45.8	43.8	40.5	35.9	33.4	33.4
70°	48.7	49.5	48.7	42.1	35.1	31.0	30.5
72.5°	48.3	52.4	49.5	42.5	34.3	28.9	28.5
75°	45.4	48.7	42.9	38.4	32.2	27.2	26.4
77.5°	39.6	35.9	29.7	29.7	26.8	24.4	23.5
80°	31.8	23.9	19.8	21.1	20.2	15.3	13.2
82.5°	25.2	15.7	14.9	15.7	15.3	11.1	9.5
85°	20.6	10.7	10.7	12.0	10.7	8.3	6.2
87.5°	16.1	6.2	7.0	6.6	6.6	5.0	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)