

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: P157066

Luminaire Tested: **UTLD-F01-LED-E-U-SL3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157066
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-SL3-7050
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (7) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2226.8 lumens
Efficiency: N/A
Efficacy: 86.0 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



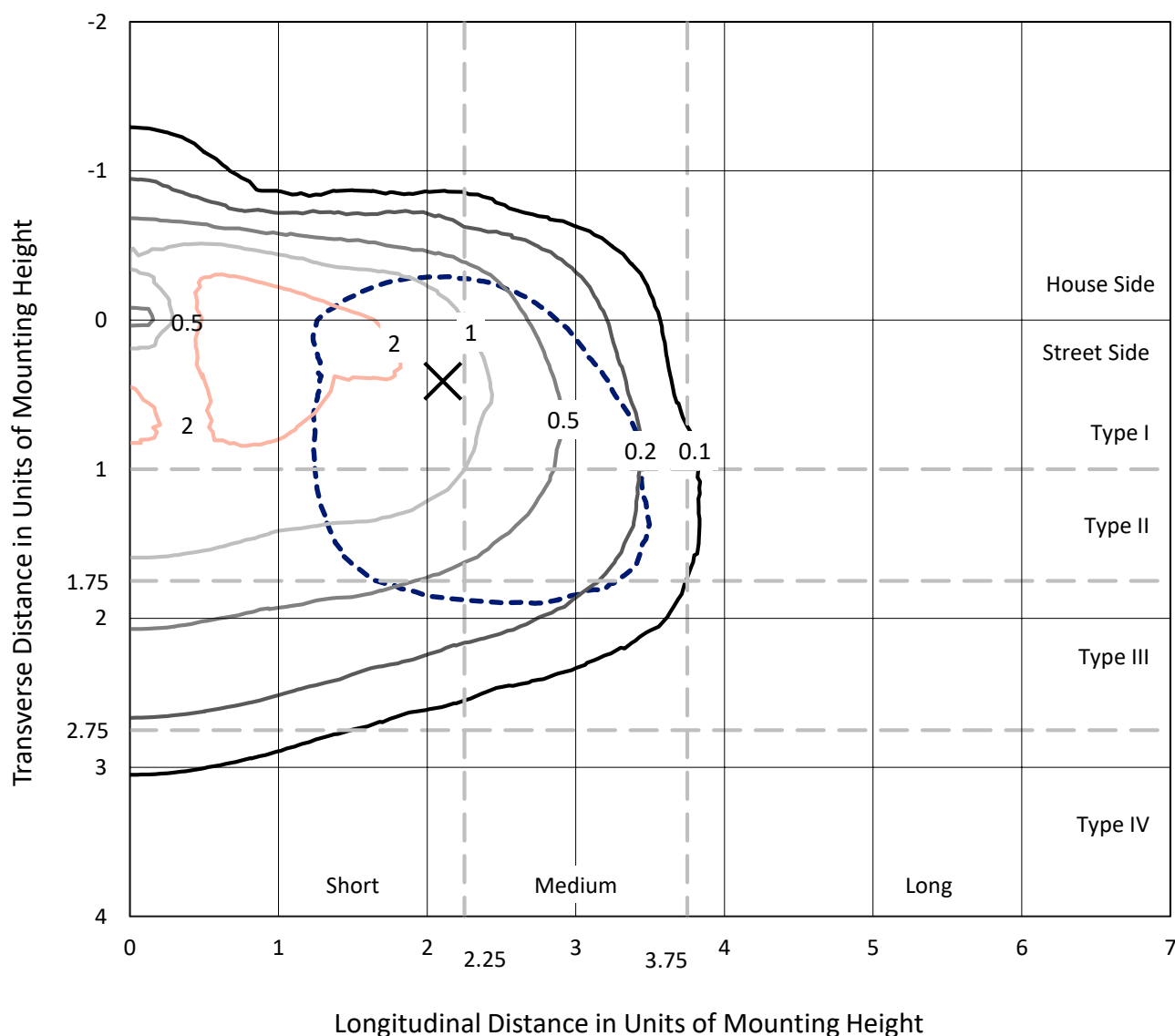
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

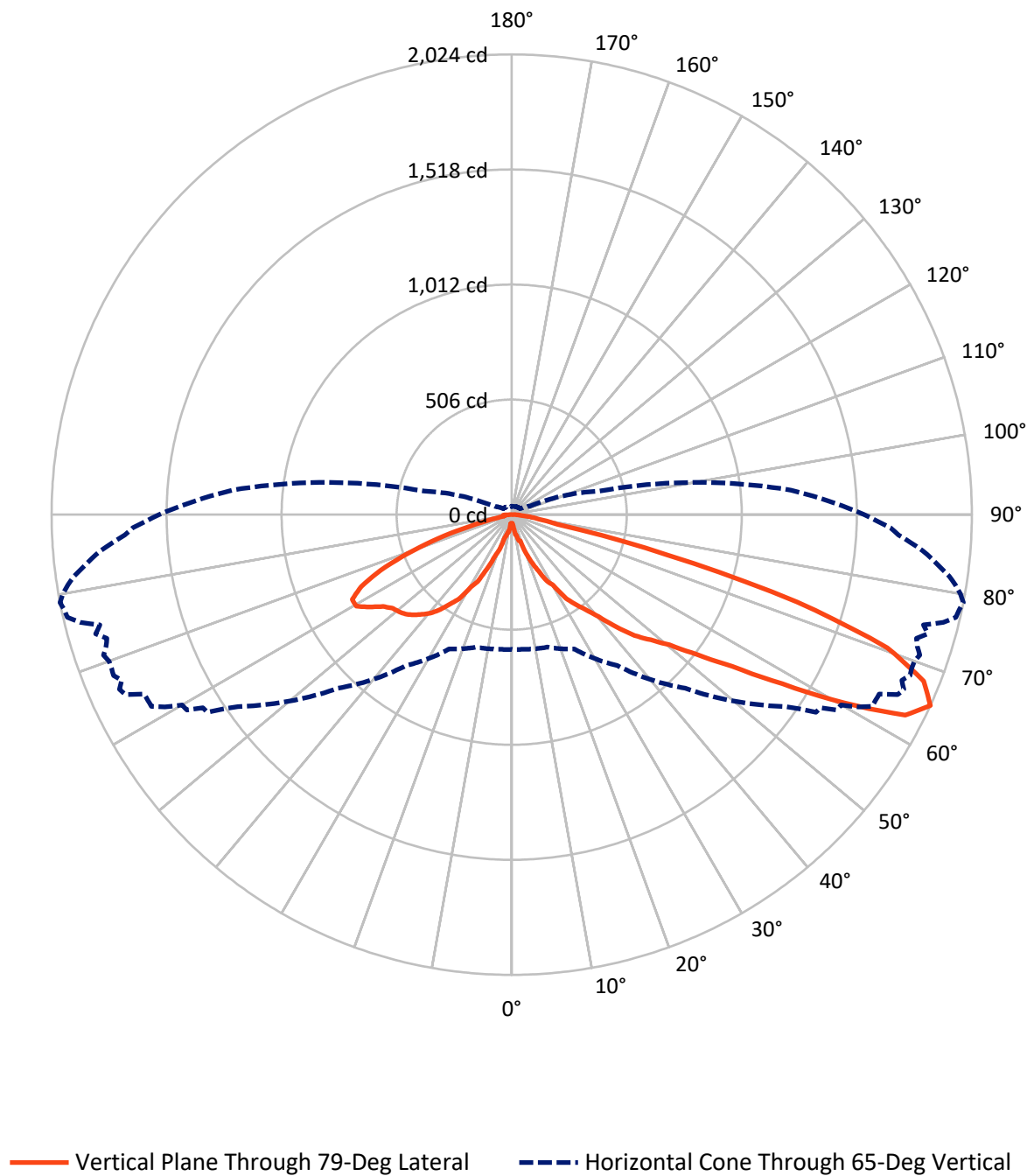


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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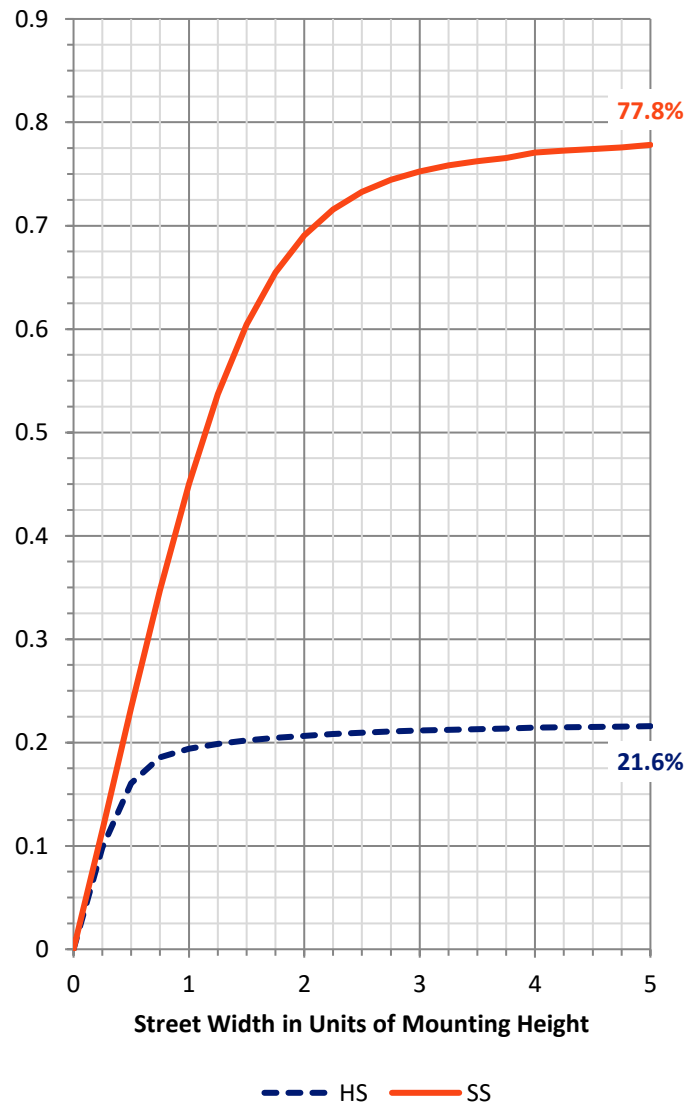
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	487.1	0.0	487.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	1739.6	0.0	1739.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	2226.8	0.0	2226.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.2
10°-20°	34.1	1.5
20°-30°	105.1	4.7
30°-40°	202.4	9.1
40°-50°	334.5	15.0
50°-60°	503.1	22.6
60°-70°	673.9	30.3
70°-80°	316.8	14.2
80°-90°	51.4	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°	2226.8	100.0
0°-180°	2226.8	100.0

Coefficient of Utilization



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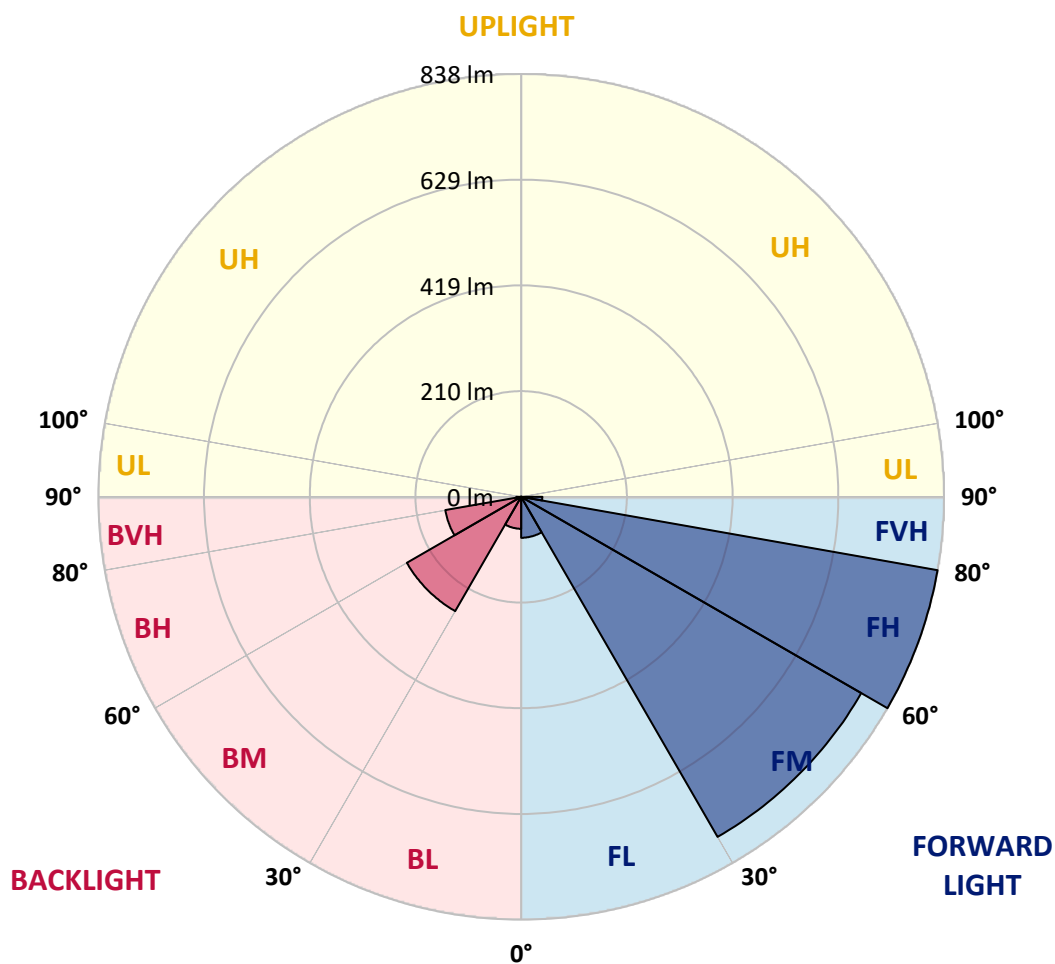
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	81.2	3.6			
FM	(30°-60°)	778.3	35.0			
FH	(60°-80°)	838.1	37.6			G1/1800
FVH	(80°-90°)	42.0	1.9			G1/100
BL	(0°-30°)	63.4	2.8	B0/110		
BM	(30°-60°)	261.7	11.8	B1/1000		
BH	(60°-80°)	152.6	6.9	B1/500		G1/500
BVH	(80°-90°)	9.4	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°	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
2.5°	63.5	63.1	63.1	63.5	62.7	62.3	54.2	52.5	50.8	49.6	48.3
5°	52.5	52.9	52.5	52.5	53.8	52.1	57.2	58.0	60.1	61.0	62.7
7.5°	84.3	84.7	83.9	83.0	68.2	54.6	52.9	52.9	52.9	54.6	54.2
10°	89.4	89.4	88.5	87.7	85.1	81.3	59.3	59.7	69.9	62.3	73.7
12.5°	124.9	125.8	124.1	118.2	91.1	113.1	113.9	112.7	111.8	108.8	106.3
15°	134.7	137.6	132.6	126.2	147.0	124.9	119.9	118.6	117.7	117.7	124.5
17.5°	185.9	186.8	183.0	171.1	155.4	149.1	147.4	146.5	146.1	146.1	147.0
20°	221.9	224.5	196.1	204.6	189.3	172.4	166.5	166.5	166.9	163.5	158.8
22.5°	244.4	243.5	230.4	235.5	208.8	192.7	207.5	211.3	215.6	217.3	219.8
25°	290.1	289.7	257.1	235.1	228.7	216.4	219.4	223.2	226.2	232.9	245.7
27.5°	295.2	294.8	271.5	261.7	227.0	247.3	277.8	284.2	288.0	288.9	288.0
30°	332.9	332.1	314.3	273.2	259.2	269.4	298.6	304.9	308.3	310.9	310.9
32.5°	371.9	371.9	338.4	287.2	279.1	307.9	351.1	353.2	355.8	356.2	357.0
35°	400.7	391.8	353.2	322.3	310.0	340.5	394.7	396.0	403.6	423.5	429.5
37.5°	415.9	416.8	402.4	365.1	366.4	400.7	485.0	486.6	487.9	493.0	500.2
40°	440.5	444.7	434.5	411.7	421.8	476.1	563.3	568.8	573.5	574.3	588.3
42.5°	465.5	468.9	469.3	476.1	485.0	554.8	639.1	644.6	643.8	650.1	671.3
45°	507.4	512.5	521.0	529.0	548.9	627.7	714.5	723.0	716.2	732.3	745.9
47.5°	561.2	565.0	579.4	600.6	608.6	691.6	793.3	795.4	801.3	818.3	823.4
50°	608.6	613.3	631.5	659.4	669.2	747.5	853.4	854.3	864.0	888.2	878.4
52.5°	644.6	649.7	665.4	709.0	724.2	809.8	900.0	900.4	917.4	939.8	919.9
55°	664.5	670.0	680.6	730.2	759.8	856.0	955.1	957.6	981.8	994.0	978.8
57.5°	665.4	670.5	682.7	725.9	775.1	903.8	1031.3	1044.0	1069.4	1084.7	1084.7
60°	657.8	664.1	676.0	713.2	789.5	957.2	1148.6	1174.9	1215.6	1230.4	1263.8
62.5°	637.8	640.8	648.0	690.8	810.7	1021.1	1317.6	1361.3	1421.4	1430.7	1498.9
65°	592.5	594.2	603.1	651.8	809.8	1079.6	1470.9	1528.1	1595.5	1601.8	1667.0
67.5°	533.2	537.0	543.8	590.4	733.1	1057.2	1484.1	1558.6	1611.1	1613.3	1667.9
70°	441.3	439.6	447.7	480.7	590.8	886.5	1341.8	1411.7	1447.2	1462.1	1499.3
72.5°	289.3	290.1	284.2	304.5	398.1	624.3	1080.9	1158.8	1174.9	1210.9	1229.5
75°	162.6	159.3	165.6	182.5	224.5	375.7	735.7	804.7	838.2	867.8	883.9
77.5°	96.6	95.3	105.9	129.6	181.3	252.0	424.4	458.7	486.2	509.1	538.3
80°	44.9	47.9	47.0	53.4	98.7	215.6	294.8	308.3	320.2	333.3	351.1
82.5°	22.0	24.1	28.0	29.2	34.7	108.8	263.0	276.6	288.0	301.1	318.9
85°	14.4	14.8	20.8	21.2	21.6	33.0	128.8	149.1	157.1	179.2	209.7
87.5°	5.1	7.2	15.2	13.6	13.6	16.1	43.6	47.9	50.0	54.6	61.0
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
2.5°	47.9	47.9	46.2	44.5	43.6	43.6	42.4	42.4	41.9	41.5	40.7
5°	62.3	63.1	63.1	63.1	62.7	62.3	61.8	61.0	60.1	58.4	57.2
7.5°	52.9	52.1	51.2	49.6	50.0	51.2	52.5	54.2	56.8	58.0	58.4
10°	74.5	76.7	76.2	76.7	76.2	77.1	77.1	77.9	77.5	77.9	78.8
12.5°	102.1	93.6	85.6	83.9	83.4	83.0	83.9	83.4	85.6	86.8	86.8
15°	128.3	137.2	137.6	142.3	141.5	134.7	127.5	125.4	123.7	123.7	119.4
17.5°	147.4	150.4	150.8	149.5	151.2	150.8	148.7	146.1	143.2	137.6	129.6
20°	175.8	180.0	182.5	185.1	190.2	186.4	185.5	202.5	204.6	206.3	204.6
22.5°	223.2	222.8	221.5	214.7	211.3	210.9	212.2	215.6	215.2	216.4	217.7
25°	251.6	251.2	254.5	266.8	270.2	282.5	279.1	279.1	281.2	283.3	280.0
27.5°	285.9	289.7	294.4	293.9	299.9	298.2	297.7	301.1	301.1	296.9	299.4
30°	313.0	324.9	340.9	346.0	342.6	342.6	347.3	352.0	350.7	350.3	351.1
32.5°	362.1	374.0	363.8	375.3	368.5	379.5	396.9	408.7	412.9	412.5	418.9
35°	441.3	443.4	437.1	441.7	449.8	451.9	453.6	453.6	448.5	457.0	460.8
37.5°	508.7	498.1	507.4	501.9	507.8	514.6	513.8	505.7	503.2	517.1	515.9
40°	594.2	577.3	589.1	586.2	589.6	591.7	582.4	576.9	583.6	587.9	587.0
42.5°	657.3	666.2	666.6	665.4	668.3	668.8	651.8	654.4	662.4	661.1	656.9
45°	725.5	740.3	732.3	744.6	745.9	729.3	725.5	736.5	739.1	734.8	729.8
47.5°	808.5	818.3	804.7	823.4	823.8	805.1	813.6	821.2	822.9	814.5	822.1
50°	880.1	881.0	878.0	892.4	883.9	874.6	893.2	897.5	893.7	882.2	894.1
52.5°	939.0	927.5	939.4	959.3	936.4	937.7	965.7	962.3	950.4	961.4	953.4
55°	1002.9	992.8	1021.1	1030.5	1009.3	1028.8	1048.3	1043.6	1030.0	1052.5	1036.8
57.5°	1099.1	1101.6	1126.6	1133.8	1124.9	1168.1	1177.4	1176.2	1176.6	1191.4	1184.6
60°	1272.3	1297.3	1326.1	1348.1	1362.5	1413.8	1414.6	1415.5	1432.0	1439.2	1463.3
62.5°	1494.2	1560.3	1576.4	1603.1	1656.5	1705.6	1695.0	1696.3	1717.4	1700.5	1731.8
65°	1673.4	1743.7	1794.5	1798.3	1872.9	1887.7	1863.6	1889.0	1884.7	1884.7	1898.3
67.5°	1690.3	1762.8	1808.5	1828.4	1914.8	1911.0	1887.7	1925.8	1903.4	1922.4	1916.9
70°	1538.7	1592.9	1640.4	1682.7	1760.6	1756.4	1757.7	1810.2	1807.2	1822.1	1806.8
72.5°	1273.6	1321.4	1347.7	1424.8	1445.1	1442.1	1473.9	1478.1	1501.9	1534.1	1514.1
75°	953.8	985.1	987.3	1038.5	1030.5	1020.7	1025.4	1042.3	998.3	970.3	947.9
77.5°	582.4	589.6	582.8	576.4	555.7	535.4	546.4	537.0	508.7	490.5	468.9
80°	366.8	375.7	379.1	399.4	393.9	411.3	424.4	437.5	441.3	425.7	410.4
82.5°	339.7	342.6	352.8	373.6	377.4	399.8	402.8	410.8	396.9	388.0	360.4
85°	218.5	225.3	246.1	232.9	250.7	251.2	241.8	241.0	213.9	199.9	168.1
87.5°	66.9	68.6	76.7	77.1	87.2	88.9	91.9	88.9	79.6	66.9	55.5
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°	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
2.5°	40.2	39.8	39.4	39.4	39.4	39.0	39.0	39.0	39.0	38.5	38.5
5°	54.6	52.5	50.0	46.6	43.2	41.9	41.9	41.1	40.7	40.2	39.8
7.5°	58.4	58.0	58.0	58.0	57.2	56.3	55.5	51.7	44.0	40.7	40.2
10°	78.8	81.3	85.6	89.8	90.6	90.6	89.8	88.1	86.4	84.3	77.5
12.5°	86.4	86.4	85.1	83.9	85.6	89.4	93.2	94.9	94.4	93.6	93.2
15°	118.2	118.2	117.7	116.9	116.9	116.5	116.9	119.0	121.6	124.1	124.1
17.5°	129.6	128.8	129.2	130.4	125.4	124.1	123.7	121.6	121.1	122.8	124.1
20°	202.5	199.5	191.0	190.2	188.5	187.6	187.2	184.7	183.4	186.8	187.2
22.5°	216.0	219.8	217.3	230.0	209.2	210.1	223.6	231.3	231.3	230.0	227.9
25°	283.8	281.2	284.2	285.0	280.8	284.2	277.8	274.5	269.8	269.4	270.2
27.5°	300.3	307.5	308.8	320.6	327.8	324.4	337.6	332.1	327.4	323.6	327.0
30°	356.6	354.5	357.9	359.2	363.8	361.3	356.6	359.2	363.0	368.9	364.2
32.5°	424.4	427.8	430.7	431.6	434.1	430.7	431.2	439.6	445.1	438.8	429.0
35°	465.0	465.0	470.6	469.7	465.0	466.7	481.1	484.5	478.6	474.4	481.1
37.5°	517.1	516.3	516.7	518.0	515.0	531.1	538.7	530.3	523.9	537.0	531.5
40°	581.1	587.0	581.9	582.8	595.5	604.8	596.8	590.4	606.1	596.3	588.3
42.5°	660.7	655.2	648.0	662.8	674.7	668.3	659.0	675.1	670.5	656.9	680.2
45°	739.5	732.3	733.6	746.7	751.4	738.2	746.7	758.1	737.0	759.0	767.5
47.5°	809.0	812.3	827.2	839.5	823.4	827.2	839.9	822.5	838.6	855.1	853.4
50°	882.2	897.1	907.2	905.1	894.1	918.2	906.8	900.4	934.7	939.4	944.5
52.5°	951.3	973.7	975.8	962.7	979.6	993.2	977.5	1021.6	1036.0	1039.4	1053.8
55°	1049.1	1069.4	1061.0	1058.0	1100.4	1090.6	1122.4	1177.0	1183.8	1197.3	1199.9
57.5°	1211.7	1227.0	1218.1	1252.4	1286.7	1280.8	1375.7	1403.6	1442.1	1449.8	1457.0
60°	1493.0	1481.1	1481.1	1554.8	1545.9	1606.9	1675.5	1683.1	1724.6	1727.6	1736.1
62.5°	1736.1	1731.0	1770.8	1792.4	1788.2	1899.1	1916.9	1941.9	1937.3	1945.7	1894.5
65°	1875.8	1861.4	1903.4	1875.0	1955.9	2005.5	2011.8	2023.7	2003.8	1975.4	1943.2
67.5°	1877.5	1880.1	1884.3	1865.3	1957.6	1961.0	1971.6	1954.2	1937.3	1864.0	1831.0
70°	1773.4	1789.9	1753.9	1788.2	1825.0	1805.1	1798.3	1753.0	1708.6	1631.9	1566.7
72.5°	1484.1	1462.1	1440.5	1466.3	1448.5	1412.1	1368.5	1312.1	1229.5	1171.5	1108.8
75°	896.2	855.1	876.7	839.0	785.7	770.8	721.3	705.6	639.5	555.3	523.5
77.5°	447.3	404.5	410.0	377.8	337.1	303.7	252.4	206.7	164.8	127.5	104.2
80°	374.4	353.7	332.9	299.0	264.7	219.8	174.1	123.2	83.9	61.4	52.5
82.5°	322.3	316.4	275.7	243.1	205.0	166.9	117.7	81.3	52.5	40.7	37.7
85°	149.1	134.3	116.5	111.4	87.7	71.6	53.4	39.4	30.5	27.1	25.0
87.5°	53.8	46.2	42.8	36.8	32.2	29.2	27.5	26.7	26.7	26.7	25.4
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
2.5°	38.5	38.5	38.1	38.1	38.1	38.1	38.1	37.7	37.7	37.7	38.5
5°	39.8	39.4	39.4	39.0	39.0	39.0	38.5	38.5	38.1	39.4	52.9
7.5°	40.2	40.7	40.7	40.7	40.7	40.7	40.2	40.2	40.2	44.9	52.1
10°	69.0	66.5	66.1	65.2	64.4	64.0	63.1	61.8	63.5	86.4	60.1
12.5°	90.6	80.9	73.3	72.0	71.2	69.9	69.9	66.5	69.5	82.6	64.4
15°	123.2	120.3	111.8	103.8	104.6	104.6	103.8	103.3	95.7	96.6	97.8
17.5°	127.1	133.4	138.1	127.5	117.7	111.4	113.1	122.0	109.7	105.0	125.4
20°	186.8	188.9	189.7	183.8	170.7	170.7	172.8	174.9	165.2	163.5	163.1
22.5°	224.1	226.6	224.9	227.4	224.1	221.9	217.7	213.0	208.0	187.6	200.8
25°	271.1	277.4	280.8	275.3	267.3	257.5	254.5	255.0	263.4	262.2	277.8
27.5°	331.2	327.8	323.6	327.4	330.8	320.2	316.4	312.6	310.5	342.6	304.9
30°	352.8	350.3	355.8	350.3	349.4	354.1	358.3	351.5	351.1	376.9	345.6
32.5°	433.7	432.0	419.3	424.4	429.9	430.7	430.3	437.5	433.3	438.8	363.0
35°	472.7	463.8	476.1	477.8	471.8	479.4	479.4	477.8	489.2	466.7	377.4
37.5°	525.2	531.5	539.6	542.1	548.5	534.5	545.9	548.1	565.8	494.3	366.8
40°	609.0	613.7	618.8	617.9	611.6	626.8	612.0	617.9	637.8	510.4	354.9
42.5°	687.0	691.2	698.8	698.4	701.0	693.3	705.2	701.0	703.5	514.6	340.1
45°	769.6	780.2	773.0	788.6	784.4	781.4	788.6	786.1	760.3	522.6	315.1
47.5°	863.2	860.6	867.8	867.8	870.8	875.9	868.3	870.4	809.4	528.2	288.0
50°	944.9	948.7	955.9	955.1	961.4	955.5	962.7	939.0	850.0	524.8	253.3
52.5°	1051.2	1066.5	1058.4	1062.7	1055.9	1066.5	1044.4	1033.4	905.5	508.7	217.7
55°	1227.8	1204.1	1219.4	1202.4	1203.7	1200.7	1172.8	1165.2	986.4	500.2	177.0
57.5°	1448.9	1446.4	1434.9	1413.8	1408.7	1390.5	1367.2	1340.1	1115.6	497.7	143.6
60°	1717.0	1706.9	1671.3	1651.4	1614.9	1578.1	1557.8	1524.7	1253.2	486.6	118.6
62.5°	1890.2	1847.0	1821.2	1773.8	1739.9	1697.1	1664.1	1602.7	1292.2	462.1	105.0
65°	1898.7	1858.5	1814.4	1758.5	1703.9	1666.6	1606.9	1549.7	1233.8	399.4	87.7
67.5°	1776.3	1732.7	1645.4	1603.9	1550.6	1506.5	1434.5	1384.5	1084.7	320.6	69.5
70°	1530.2	1456.5	1376.1	1320.2	1274.8	1223.2	1155.4	1100.8	865.7	235.9	53.8
72.5°	1059.7	1017.3	943.2	914.8	870.4	845.4	809.4	787.8	612.4	162.2	44.5
75°	515.4	483.7	439.2	448.5	417.2	424.0	428.6	403.6	338.4	91.9	38.5
77.5°	96.1	100.8	89.8	89.8	91.1	86.8	87.7	95.3	94.9	46.6	32.6
80°	49.1	48.3	46.6	45.7	43.6	42.4	40.7	39.8	38.5	33.5	28.4
82.5°	35.6	33.5	31.3	30.1	28.8	27.1	25.8	26.3	28.8	33.0	30.5
85°	22.9	22.0	20.3	19.9	19.5	19.1	19.5	20.3	27.5	39.4	30.1
87.5°	24.6	22.4	20.3	19.5	19.1	18.2	17.8	19.1	29.2	42.8	25.8
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):

	125°	135°	145°	155°	165°	175°	180°
0°	38.1	38.1	38.1	38.1	38.1	38.1	38.1
2.5°	39.4	42.4	52.1	59.7	60.6	60.6	60.1
5°	59.3	41.1	38.1	39.0	37.3	37.7	37.3
7.5°	37.7	37.7	38.5	53.4	60.1	62.7	61.0
10°	44.9	59.7	60.6	63.1	63.5	63.1	62.7
12.5°	87.2	86.0	65.6	69.9	91.1	92.3	91.9
15°	94.0	93.2	113.5	94.0	97.4	98.3	97.4
17.5°	122.8	122.8	122.4	112.7	126.6	126.6	126.2
20°	145.3	151.2	147.0	141.0	124.1	124.5	124.5
22.5°	205.8	168.1	160.5	153.7	139.3	139.3	138.9
25°	212.2	188.9	168.6	147.4	135.1	147.8	146.5
27.5°	273.6	197.4	158.4	149.9	134.3	130.4	130.4
30°	269.4	208.4	177.0	136.8	129.6	124.1	121.6
32.5°	285.0	206.3	156.3	124.5	105.5	103.3	100.8
35°	276.1	195.7	133.8	99.1	80.9	77.1	77.1
37.5°	266.8	166.9	108.0	73.7	64.4	61.4	61.8
40°	235.1	134.3	75.0	56.8	56.8	57.2	57.2
42.5°	200.8	93.2	55.1	48.7	51.2	52.9	52.5
45°	158.0	62.7	44.5	44.9	48.3	49.6	49.6
47.5°	112.7	46.6	40.7	41.9	45.7	47.4	47.0
50°	76.7	39.8	38.1	40.2	44.0	44.9	44.9
52.5°	55.5	37.7	36.4	38.5	42.4	43.2	43.2
55°	46.2	36.8	35.6	37.3	40.7	41.5	41.9
57.5°	43.6	36.8	35.2	36.8	39.4	40.2	40.2
60°	43.6	37.3	36.0	36.8	38.1	39.0	39.4
62.5°	44.5	39.4	37.7	37.7	37.7	38.1	38.1
65°	46.2	43.2	40.7	39.4	37.7	36.4	36.8
67.5°	48.3	47.0	44.9	41.5	36.8	34.3	34.3
70°	50.0	50.8	50.0	43.2	36.0	31.8	31.3
72.5°	49.6	53.8	50.8	43.6	35.2	29.6	29.2
75°	46.6	50.0	44.0	39.4	33.0	28.0	27.1
77.5°	40.7	36.8	30.5	30.5	27.5	25.0	24.1
80°	32.6	24.6	20.3	21.6	20.8	15.7	13.6
82.5°	25.8	16.1	15.2	16.1	15.7	11.4	9.7
85°	21.2	11.0	11.0	12.3	11.0	8.5	6.4
87.5°	16.5	6.4	7.2	6.8	6.8	5.1	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)