

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: P157086

Luminaire Tested: **UTLD-F03-LED-E-U-SL3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157086
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-F03-LED-E-U-SL3-7050
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6680.3 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 78.3
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



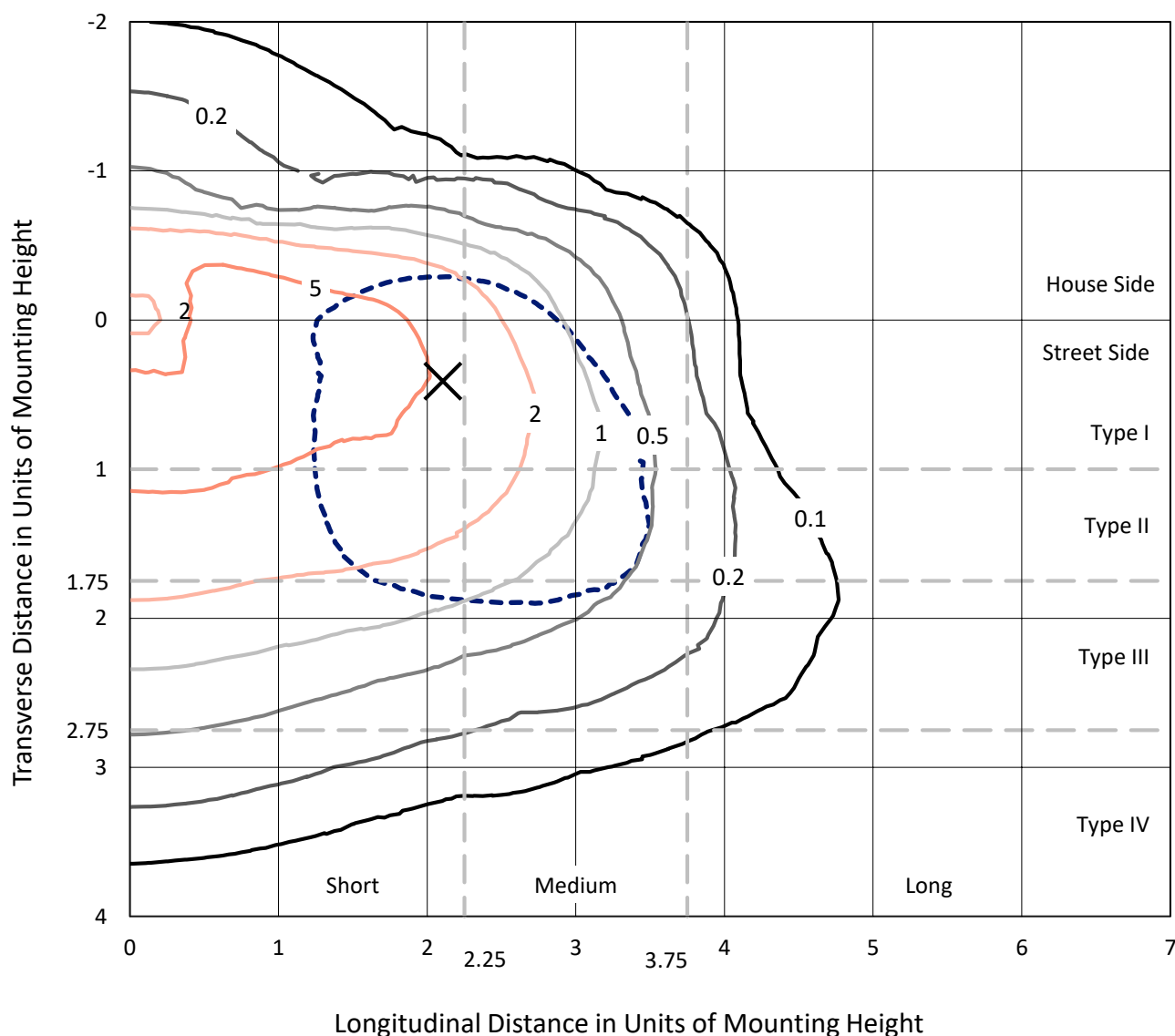
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

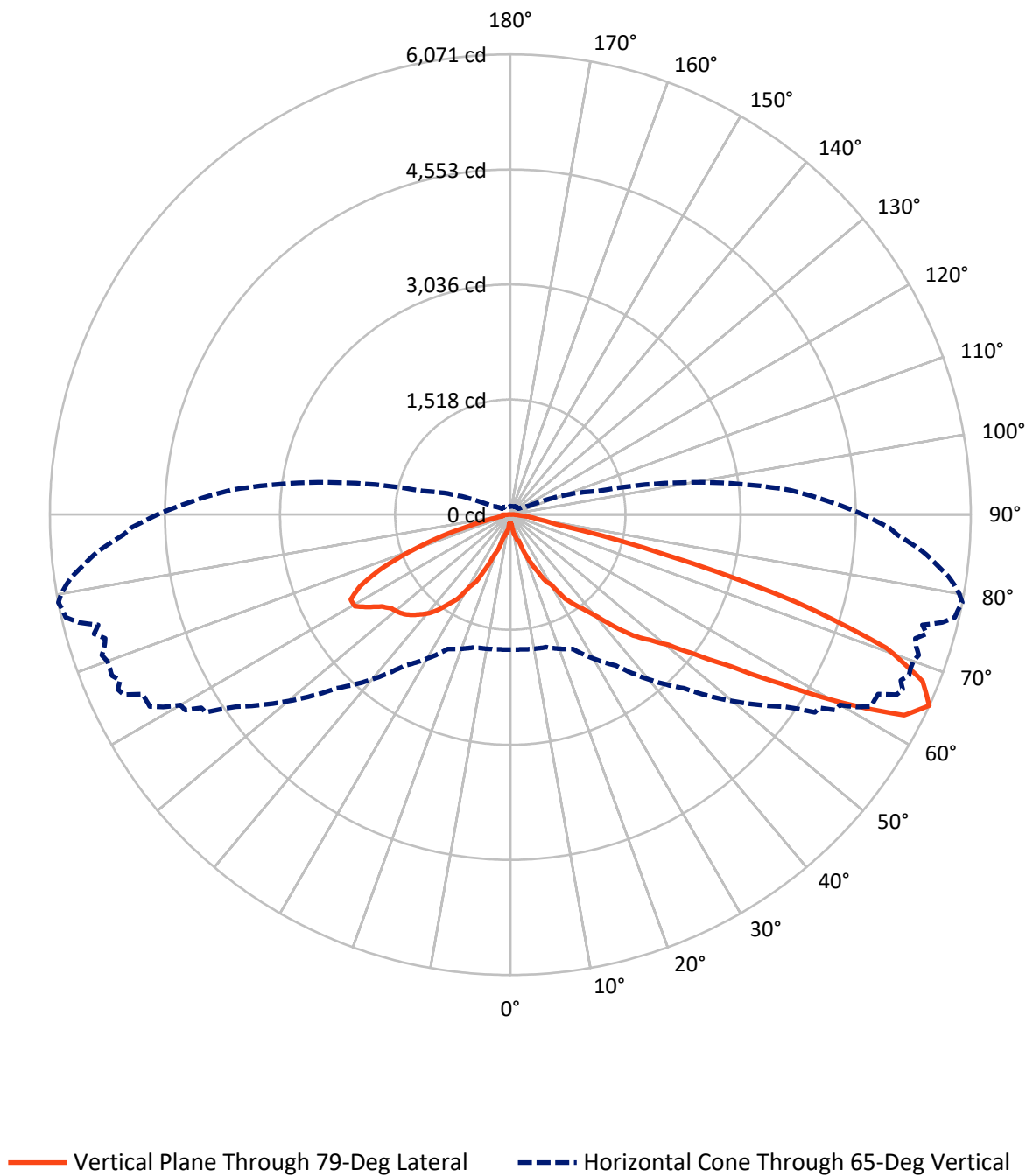


Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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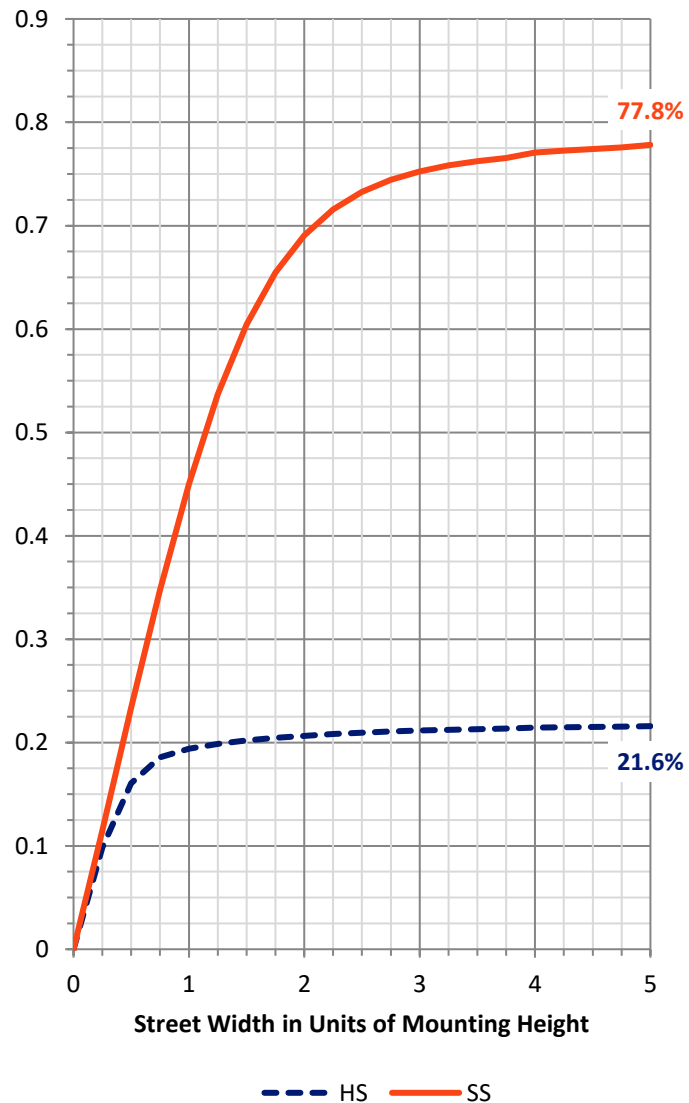
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1461.4	0.0	1461.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	5218.8	0.0	5218.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	6680.3	0.0	6680.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.0	0.2
10°-20°	102.3	1.5
20°-30°	315.4	4.7
30°-40°	607.2	9.1
40°-50°	1003.6	15.0
50°-60°	1509.4	22.6
60°-70°	2021.8	30.3
70°-80°	950.2	14.2
80°-90°	154.3	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°	6680.3	100.0
0°-180°	6680.3	100.0

Coefficient of Utilization



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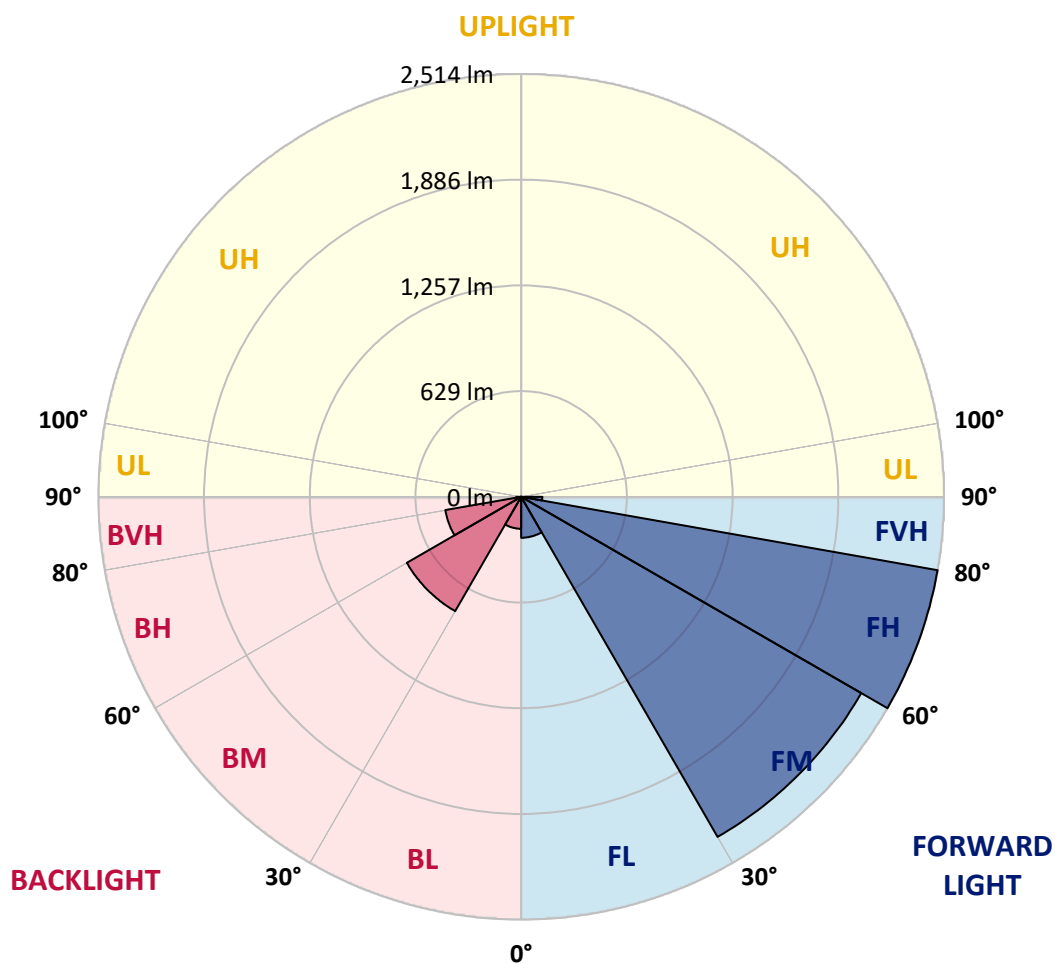
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	243.6	3.6			
FM	(30°-60°)	2335.0	35.0			
FH	(60°-80°)	2514.2	37.6			G2/5000
FVH	(80°-90°)	126.1	1.9			G2/225
BL	(0°-30°)	190.2	2.8	B1/500		
BM	(30°-60°)	785.2	11.8	B1/1000		
BH	(60°-80°)	457.8	6.9	B1/500		G1/500
BVH	(80°-90°)	28.2	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4
2.5°	190.6	189.3	189.3	190.6	188.1	186.8	162.6	157.6	152.5	148.7	144.8
5°	157.6	158.8	157.6	157.6	161.4	156.3	171.5	174.1	180.4	183.0	188.1
7.5°	252.9	254.1	251.6	249.0	204.6	163.9	158.8	158.8	158.8	163.9	162.6
10°	268.1	268.1	265.6	263.0	255.4	244.0	177.9	179.2	209.7	186.8	221.1
12.5°	374.8	377.4	372.3	354.5	273.2	339.3	341.8	338.0	335.4	326.5	318.9
15°	404.1	412.9	397.7	378.6	440.9	374.8	359.6	355.8	353.2	353.2	373.6
17.5°	557.8	560.3	548.9	513.3	466.3	447.3	442.2	439.6	438.4	438.4	440.9
20°	665.8	673.4	588.3	613.7	568.0	517.1	499.4	499.4	500.6	490.5	476.5
22.5°	733.1	730.6	691.2	706.5	626.4	578.1	622.6	634.0	646.7	651.8	659.4
25°	870.4	869.1	771.3	705.2	686.1	649.3	658.2	669.6	678.5	698.8	737.0
27.5°	885.6	884.3	814.5	785.2	681.0	742.0	833.5	852.6	864.0	866.6	864.0
30°	998.7	996.2	942.8	819.5	777.6	808.1	895.8	914.8	925.0	932.6	932.6
32.5°	1115.6	1115.6	1015.2	861.5	837.3	923.7	1053.3	1059.7	1067.3	1068.6	1071.1
35°	1202.0	1175.3	1059.7	966.9	930.1	1021.6	1184.2	1188.0	1210.9	1270.6	1288.4
37.5°	1247.7	1250.3	1207.1	1095.3	1099.1	1202.0	1454.9	1459.9	1463.7	1479.0	1500.6
40°	1321.4	1334.1	1303.6	1235.0	1265.5	1428.2	1689.9	1706.4	1720.4	1723.0	1764.9
42.5°	1396.4	1406.6	1407.8	1428.2	1454.9	1664.5	1917.4	1933.9	1931.3	1950.4	2013.9
45°	1522.2	1537.4	1562.9	1587.0	1646.7	1883.0	2143.5	2168.9	2148.6	2196.9	2237.6
47.5°	1683.6	1695.0	1738.2	1801.7	1825.9	2074.9	2379.9	2386.2	2404.0	2454.8	2470.1
50°	1825.9	1839.8	1894.5	1978.3	2007.6	2242.6	2560.3	2562.8	2592.1	2664.5	2635.3
52.5°	1933.9	1949.1	1996.1	2127.0	2172.7	2429.4	2700.1	2701.3	2752.1	2819.5	2759.8
55°	1993.6	2010.1	2041.9	2190.5	2279.5	2567.9	2865.2	2872.9	2945.3	2982.1	2936.4
57.5°	1996.1	2011.4	2048.2	2177.8	2325.2	2711.5	3093.9	3132.1	3208.3	3254.0	3254.0
60°	1973.3	1992.3	2027.9	2139.7	2368.4	2871.6	3445.9	3524.7	3646.7	3691.1	3791.5
62.5°	1913.5	1922.4	1944.0	2072.4	2432.0	3063.4	3952.9	4083.8	4264.2	4292.1	4496.7
65°	1777.6	1782.7	1809.4	1955.5	2429.4	3238.8	4412.8	4584.4	4786.4	4805.5	5001.1
67.5°	1599.7	1611.1	1631.5	1771.2	2199.4	3171.5	4452.2	4675.9	4833.4	4839.8	5003.7
70°	1324.0	1318.9	1343.0	1442.1	1772.5	2659.4	4025.3	4235.0	4341.7	4386.2	4498.0
72.5°	867.8	870.4	852.6	913.6	1194.4	1872.9	3242.6	3476.4	3524.7	3632.7	3688.6
75°	487.9	477.8	496.8	547.6	673.4	1127.0	2207.1	2414.2	2514.5	2603.5	2651.8
77.5°	289.7	285.9	317.7	388.8	543.8	756.0	1273.2	1376.1	1458.7	1527.3	1614.9
80°	134.7	143.6	141.0	160.1	296.1	646.7	884.3	925.0	960.6	1000.0	1053.3
82.5°	66.1	72.4	83.9	87.7	104.2	326.5	789.1	829.7	864.0	903.4	956.8
85°	43.2	44.5	62.3	63.5	64.8	99.1	386.3	447.3	471.4	537.5	629.0
87.5°	15.2	21.6	45.7	40.7	40.7	48.3	130.9	143.6	149.9	163.9	183.0
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°	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4
2.5°	143.6	143.6	138.5	133.4	130.9	130.9	127.1	127.1	125.8	124.5	122.0
5°	186.8	189.3	189.3	189.3	188.1	186.8	185.5	183.0	180.4	175.3	171.5
7.5°	158.8	156.3	153.7	148.7	149.9	153.7	157.6	162.6	170.3	174.1	175.3
10°	223.6	230.0	228.7	230.0	228.7	231.3	231.3	233.8	232.5	233.8	236.3
12.5°	306.2	280.8	256.7	251.6	250.3	249.0	251.6	250.3	256.7	260.5	260.5
15°	385.0	411.7	412.9	426.9	424.4	404.1	382.5	376.1	371.0	371.0	358.3
17.5°	442.2	451.1	452.3	448.5	453.6	452.3	446.0	438.4	429.5	412.9	388.8
20°	527.3	540.0	547.6	555.3	570.5	559.1	556.5	607.4	613.7	618.8	613.7
22.5°	669.6	668.3	664.5	644.2	634.0	632.8	636.6	646.7	645.5	649.3	653.1
25°	754.7	753.5	763.6	800.5	810.7	847.5	837.3	837.3	843.7	850.0	839.9
27.5°	857.7	869.1	883.1	881.8	899.6	894.5	893.2	903.4	903.4	890.7	898.3
30°	939.0	974.6	1022.8	1038.1	1027.9	1027.9	1041.9	1055.9	1052.1	1050.8	1053.3
32.5°	1086.4	1122.0	1091.5	1125.8	1105.4	1138.5	1190.6	1226.1	1238.8	1237.6	1256.6
35°	1324.0	1330.3	1311.3	1325.2	1349.4	1355.7	1360.8	1360.8	1345.6	1371.0	1382.4
37.5°	1526.0	1494.2	1522.2	1505.7	1523.5	1543.8	1541.3	1517.1	1509.5	1551.4	1547.6
40°	1782.7	1731.8	1767.4	1758.5	1768.7	1775.0	1747.1	1730.6	1750.9	1763.6	1761.1
42.5°	1972.0	1998.7	1999.9	1996.1	2005.0	2006.3	1955.5	1963.1	1987.2	1983.4	1970.7
45°	2176.6	2221.0	2196.9	2233.7	2237.6	2188.0	2176.6	2209.6	2217.2	2204.5	2189.3
47.5°	2425.6	2454.8	2414.2	2470.1	2471.3	2415.4	2440.8	2463.7	2468.8	2443.4	2466.3
50°	2640.3	2642.9	2634.0	2677.2	2651.8	2623.8	2679.7	2692.4	2681.0	2646.7	2682.3
52.5°	2816.9	2782.6	2818.2	2877.9	2809.3	2813.1	2897.0	2886.8	2851.3	2884.3	2860.2
55°	3008.8	2978.3	3063.4	3091.4	3027.9	3086.3	3144.8	3130.8	3090.1	3157.5	3110.5
57.5°	3297.2	3304.9	3379.8	3401.4	3374.7	3504.4	3532.3	3528.5	3529.8	3574.2	3553.9
60°	3816.9	3891.9	3978.3	4044.4	4087.6	4241.3	4243.8	4246.4	4295.9	4317.5	4390.0
62.5°	4482.7	4680.9	4729.2	4809.3	4969.4	5116.8	5085.0	5088.8	5152.3	5101.5	5195.5
65°	5020.2	5231.1	5383.6	5395.0	5618.7	5663.1	5590.7	5666.9	5654.2	5654.2	5694.9
67.5°	5071.0	5288.3	5425.5	5485.2	5744.4	5733.0	5663.1	5777.5	5710.1	5767.3	5750.8
70°	4616.1	4778.8	4921.1	5048.1	5281.9	5269.2	5273.0	5430.6	5421.7	5466.2	5420.4
72.5°	3820.7	3964.3	4043.1	4274.3	4335.3	4326.4	4421.7	4434.4	4505.6	4602.2	4542.4
75°	2861.4	2955.4	2961.8	3115.5	3091.4	3062.2	3076.2	3127.0	2994.8	2911.0	2843.6
77.5°	1747.1	1768.7	1748.4	1729.3	1667.0	1606.1	1639.1	1611.1	1526.0	1471.4	1406.6
80°	1100.4	1127.0	1137.2	1198.2	1181.7	1233.8	1273.2	1312.5	1324.0	1277.0	1231.2
82.5°	1019.0	1027.9	1058.4	1120.7	1132.1	1199.5	1208.4	1232.5	1190.6	1163.9	1081.3
85°	655.6	676.0	738.2	698.8	752.2	753.5	725.5	723.0	641.7	599.7	504.4
87.5°	200.8	205.8	230.0	231.3	261.7	266.8	275.7	266.8	238.9	200.8	166.5
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°	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4
2.5°	120.7	119.4	118.2	118.2	118.2	116.9	116.9	116.9	116.9	115.6	115.6
5°	163.9	157.6	149.9	139.8	129.6	125.8	125.8	123.2	122.0	120.7	119.4
7.5°	175.3	174.1	174.1	174.1	171.5	169.0	166.5	155.0	132.1	122.0	120.7
10°	236.3	244.0	256.7	269.4	271.9	271.9	269.4	264.3	259.2	252.9	232.5
12.5°	259.2	259.2	255.4	251.6	256.7	268.1	279.5	284.6	283.3	280.8	279.5
15°	354.5	354.5	353.2	350.7	350.7	349.4	350.7	357.0	364.7	372.3	372.3
17.5°	388.8	386.3	387.5	391.3	376.1	372.3	371.0	364.7	363.4	368.5	372.3
20°	607.4	598.5	573.0	570.5	565.4	562.9	561.6	554.0	550.2	560.3	561.6
22.5°	648.0	659.4	651.8	689.9	627.7	630.2	670.9	693.8	693.8	689.9	683.6
25°	851.3	843.7	852.6	855.1	842.4	852.6	833.5	823.4	809.4	808.1	810.7
27.5°	900.9	922.5	926.3	961.9	983.5	973.3	1012.7	996.2	982.2	970.7	980.9
30°	1069.9	1063.5	1073.7	1077.5	1091.5	1083.8	1069.9	1077.5	1088.9	1106.7	1092.7
32.5°	1273.2	1283.3	1292.2	1294.8	1302.4	1292.2	1293.5	1318.9	1335.4	1316.4	1287.1
35°	1395.1	1395.1	1411.7	1409.1	1395.1	1400.2	1443.4	1453.6	1435.8	1423.1	1443.4
37.5°	1551.4	1548.9	1550.1	1554.0	1545.1	1593.3	1616.2	1590.8	1571.7	1611.1	1594.6
40°	1743.3	1761.1	1745.8	1748.4	1786.5	1814.4	1790.3	1771.2	1818.2	1789.0	1764.9
42.5°	1982.2	1965.6	1944.0	1988.5	2024.1	2005.0	1977.1	2025.4	2011.4	1970.7	2040.6
45°	2218.5	2196.9	2200.7	2240.1	2254.1	2214.7	2240.1	2274.4	2210.9	2276.9	2302.4
47.5°	2426.9	2437.0	2481.5	2518.4	2470.1	2481.5	2519.6	2467.5	2515.8	2565.4	2560.3
50°	2646.7	2691.2	2721.7	2715.3	2682.3	2754.7	2720.4	2701.3	2804.2	2818.2	2833.5
52.5°	2853.8	2921.1	2927.5	2888.1	2938.9	2979.6	2932.6	3064.7	3107.9	3118.1	3161.3
55°	3147.3	3208.3	3182.9	3174.0	3301.1	3271.8	3367.1	3531.0	3551.4	3592.0	3599.6
57.5°	3635.2	3681.0	3654.3	3757.2	3860.1	3842.3	4127.0	4210.8	4326.4	4349.3	4370.9
60°	4478.9	4443.3	4443.3	4664.4	4637.7	4820.7	5026.5	5049.4	5173.9	5182.8	5208.2
62.5°	5208.2	5193.0	5312.4	5377.2	5364.5	5697.4	5750.8	5825.8	5811.8	5837.2	5683.5
65°	5627.5	5584.3	5710.1	5625.0	5867.7	6016.4	6035.4	6071.0	6011.3	5926.1	5829.6
67.5°	5632.6	5640.3	5653.0	5595.8	5872.8	5882.9	5914.7	5862.6	5811.8	5592.0	5492.9
70°	5320.1	5369.6	5261.6	5364.5	5475.1	5415.4	5395.0	5259.1	5125.7	4895.7	4700.0
72.5°	4452.2	4386.2	4321.4	4398.9	4345.5	4236.2	4105.4	3936.4	3688.6	3514.5	3326.5
75°	2688.6	2565.4	2630.2	2517.1	2357.0	2312.5	2163.9	2116.8	1918.6	1665.8	1570.5
77.5°	1341.8	1213.4	1230.0	1133.4	1011.4	911.0	757.3	620.1	494.3	382.5	312.6
80°	1123.2	1061.0	998.7	897.1	794.1	659.4	522.2	369.7	251.6	184.2	157.6
82.5°	966.9	949.1	827.2	729.3	615.0	500.6	353.2	244.0	157.6	122.0	113.1
85°	447.3	402.8	349.4	334.2	263.0	214.7	160.1	118.2	91.5	81.3	75.0
87.5°	161.4	138.5	128.3	110.5	96.6	87.7	82.6	80.0	80.0	80.0	76.2
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4
2.5°	115.6	115.6	114.4	114.4	114.4	114.4	114.4	113.1	113.1	113.1	115.6
5°	119.4	118.2	118.2	116.9	116.9	116.9	115.6	115.6	114.4	118.2	158.8
7.5°	120.7	122.0	122.0	122.0	122.0	122.0	120.7	120.7	120.7	134.7	156.3
10°	207.1	199.5	198.2	195.7	193.1	191.9	189.3	185.5	190.6	259.2	180.4
12.5°	271.9	242.7	219.8	216.0	213.5	209.7	209.7	199.5	208.4	247.8	193.1
15°	369.7	360.9	335.4	311.3	313.8	313.8	311.3	310.0	287.2	289.7	293.5
17.5°	381.2	400.2	414.2	382.5	353.2	334.2	339.3	365.9	329.1	315.1	376.1
20°	560.3	566.7	569.2	551.4	512.1	512.1	518.4	524.8	495.5	490.5	489.2
22.5°	672.2	679.8	674.7	682.3	672.2	665.8	653.1	639.1	623.9	562.9	602.3
25°	813.2	832.3	842.4	825.9	801.8	772.5	763.6	764.9	790.3	786.5	833.5
27.5°	993.6	983.5	970.7	982.2	992.3	960.6	949.1	937.7	931.4	1027.9	914.8
30°	1058.4	1050.8	1067.3	1050.8	1048.3	1062.2	1074.9	1054.6	1053.3	1130.8	1036.8
32.5°	1301.1	1296.0	1257.9	1273.2	1289.7	1292.2	1290.9	1312.5	1299.8	1316.4	1088.9
35°	1418.0	1391.3	1428.2	1433.3	1415.5	1438.3	1438.3	1433.3	1467.6	1400.2	1132.1
37.5°	1575.6	1594.6	1618.8	1626.4	1645.4	1603.5	1637.8	1644.2	1697.5	1482.8	1100.4
40°	1827.1	1841.1	1856.4	1853.8	1834.8	1880.5	1836.0	1853.8	1913.5	1531.1	1064.8
42.5°	2060.9	2073.6	2096.5	2095.2	2102.9	2080.0	2115.6	2102.9	2110.5	1543.8	1020.3
45°	2308.7	2340.5	2318.9	2365.9	2353.2	2344.3	2365.9	2358.3	2280.8	1567.9	945.3
47.5°	2589.5	2581.9	2603.5	2603.5	2612.4	2627.6	2604.8	2611.1	2428.1	1584.5	864.0
50°	2834.7	2846.2	2867.8	2865.2	2884.3	2866.5	2888.1	2816.9	2550.1	1574.3	759.8
52.5°	3153.7	3199.4	3175.3	3188.0	3167.6	3199.4	3133.3	3100.3	2716.6	1526.0	653.1
55°	3683.5	3612.4	3658.1	3607.3	3611.1	3602.2	3518.3	3495.5	2959.3	1500.6	531.1
57.5°	4346.8	4339.1	4304.8	4241.3	4226.1	4171.4	4101.5	4020.2	3346.8	1493.0	430.7
60°	5151.1	5120.6	5013.8	4954.1	4844.8	4734.3	4673.3	4574.2	3759.7	1459.9	355.8
62.5°	5670.7	5541.1	5463.6	5321.3	5219.7	5091.3	4992.2	4808.0	3876.6	1386.2	315.1
65°	5696.2	5575.5	5443.3	5275.6	5111.7	4999.9	4820.7	4649.2	3701.3	1198.2	263.0
67.5°	5329.0	5198.1	4936.3	4811.8	4651.7	4519.6	4303.6	4153.6	3254.0	961.9	208.4
70°	4590.7	4369.6	4128.2	3960.5	3824.5	3669.5	3466.2	3302.3	2597.1	707.7	161.4
72.5°	3179.1	3052.0	2829.7	2744.5	2611.1	2536.1	2428.1	2363.3	1837.3	486.6	133.4
75°	1546.3	1451.0	1317.6	1345.6	1251.6	1271.9	1285.9	1210.9	1015.2	275.7	115.6
77.5°	288.4	302.4	269.4	269.4	273.2	260.5	263.0	285.9	284.6	139.8	97.8
80°	147.4	144.8	139.8	137.2	130.9	127.1	122.0	119.4	115.6	100.4	85.1
82.5°	106.7	100.4	94.0	90.2	86.4	81.3	77.5	78.8	86.4	99.1	91.5
85°	68.6	66.1	61.0	59.7	58.4	57.2	58.4	61.0	82.6	118.2	90.2
87.5°	73.7	67.3	61.0	58.4	57.2	54.6	53.4	57.2	87.7	128.3	77.5
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):

	125°	135°	145°	155°	165°	175°	180°
0°	114.4	114.4	114.4	114.4	114.4	114.4	114.4
2.5°	118.2	127.1	156.3	179.2	181.7	181.7	180.4
5°	177.9	123.2	114.4	116.9	111.8	113.1	111.8
7.5°	113.1	113.1	115.6	160.1	180.4	188.1	183.0
10°	134.7	179.2	181.7	189.3	190.6	189.3	188.1
12.5°	261.7	257.9	196.9	209.7	273.2	277.0	275.7
15°	282.1	279.5	340.5	282.1	292.2	294.8	292.2
17.5°	368.5	368.5	367.2	338.0	379.9	379.9	378.6
20°	435.8	453.6	440.9	423.1	372.3	373.6	373.6
22.5°	617.5	504.4	481.6	461.2	418.0	418.0	416.8
25°	636.6	566.7	505.7	442.2	405.3	443.4	439.6
27.5°	820.8	592.1	475.2	449.8	402.8	391.3	391.3
30°	808.1	625.1	531.1	410.4	388.8	372.3	364.7
32.5°	855.1	618.8	468.9	373.6	316.4	310.0	302.4
35°	828.4	587.0	401.5	297.3	242.7	231.3	231.3
37.5°	800.5	500.6	324.0	221.1	193.1	184.2	185.5
40°	705.2	402.8	224.9	170.3	170.3	171.5	171.5
42.5°	602.3	279.5	165.2	146.1	153.7	158.8	157.6
45°	473.9	188.1	133.4	134.7	144.8	148.7	148.7
47.5°	338.0	139.8	122.0	125.8	137.2	142.3	141.0
50°	230.0	119.4	114.4	120.7	132.1	134.7	134.7
52.5°	166.5	113.1	109.3	115.6	127.1	129.6	129.6
55°	138.5	110.5	106.7	111.8	122.0	124.5	125.8
57.5°	130.9	110.5	105.5	110.5	118.2	120.7	120.7
60°	130.9	111.8	108.0	110.5	114.4	116.9	118.2
62.5°	133.4	118.2	113.1	113.1	113.1	114.4	114.4
65°	138.5	129.6	122.0	118.2	113.1	109.3	110.5
67.5°	144.8	141.0	134.7	124.5	110.5	102.9	102.9
70°	149.9	152.5	149.9	129.6	108.0	95.3	94.0
72.5°	148.7	161.4	152.5	130.9	105.5	88.9	87.7
75°	139.8	149.9	132.1	118.2	99.1	83.9	81.3
77.5°	122.0	110.5	91.5	91.5	82.6	75.0	72.4
80°	97.8	73.7	61.0	64.8	62.3	47.0	40.7
82.5°	77.5	48.3	45.7	48.3	47.0	34.3	29.2
85°	63.5	33.0	33.0	36.8	33.0	25.4	19.1
87.5°	49.6	19.1	21.6	20.3	20.3	15.2	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)