

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: P157085

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157085
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6510.3 lumens
Efficiency: N/A
Efficacy: 83.1 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

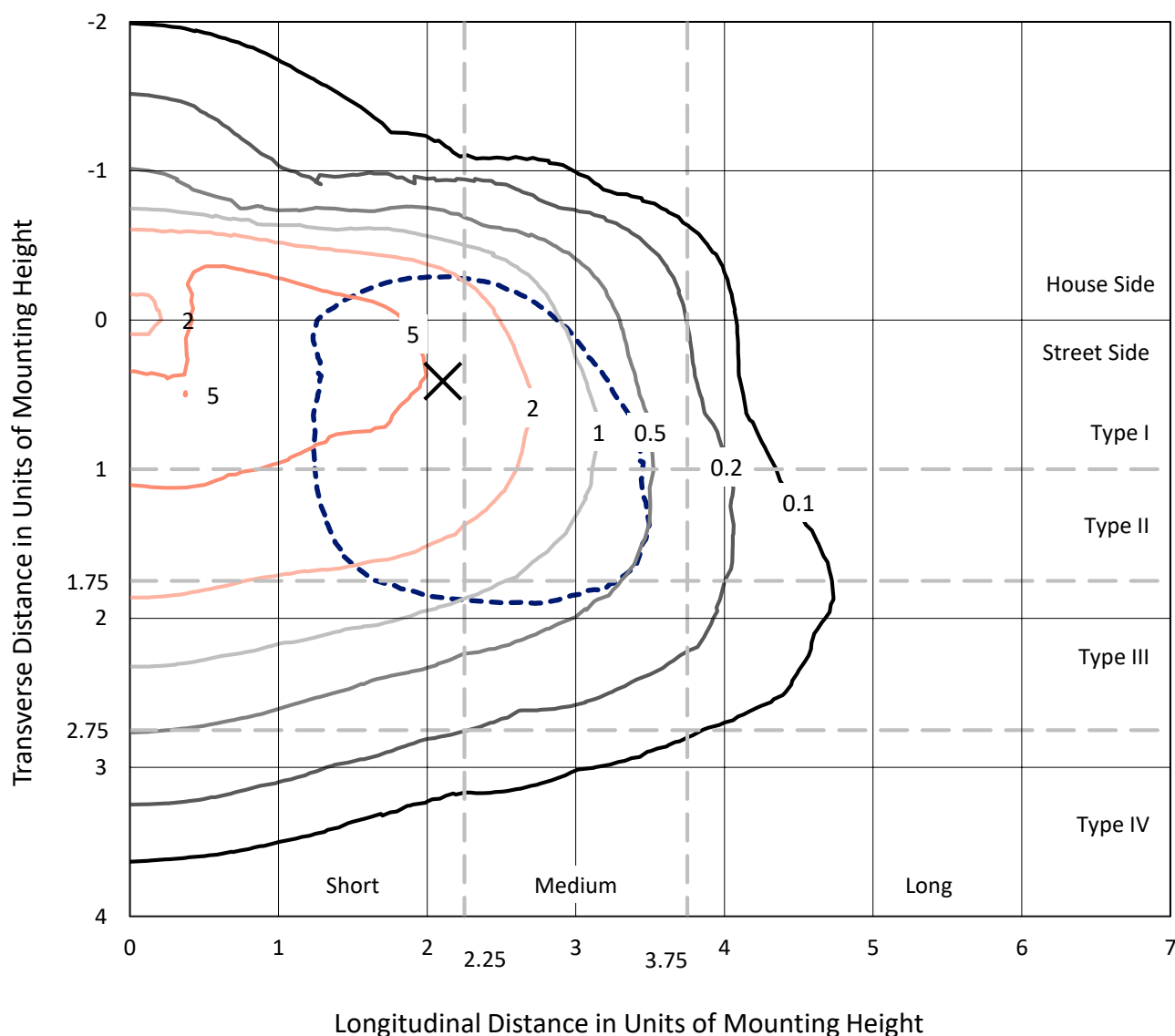


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

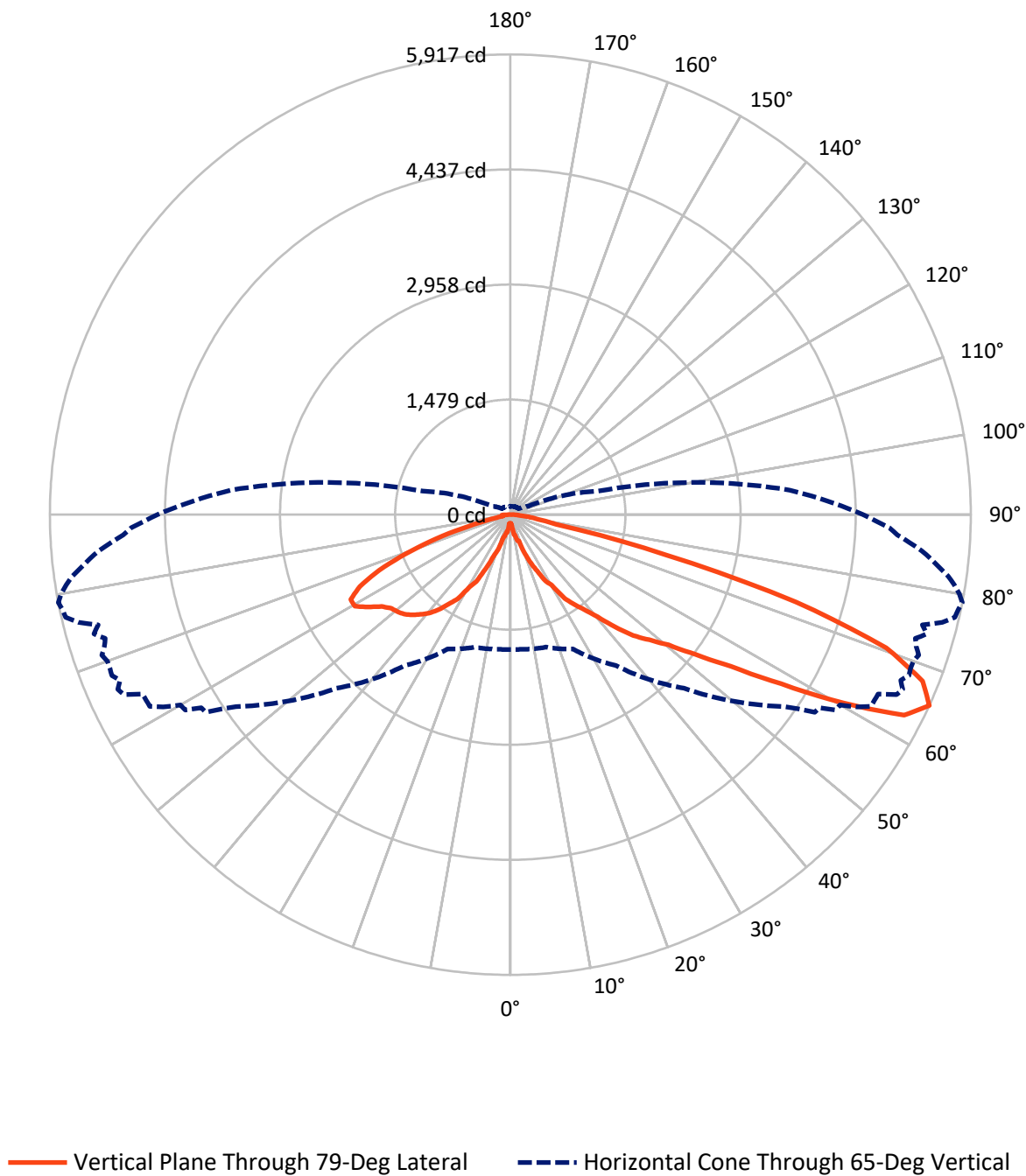


Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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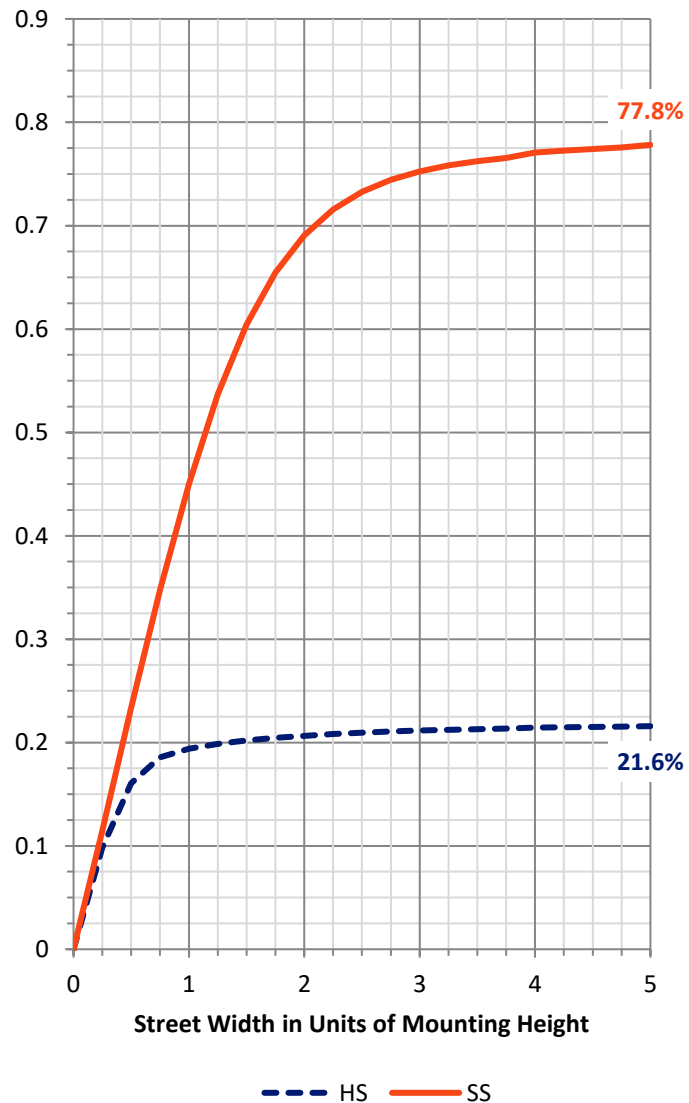
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1424.3	0.0	1424.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	5086.1	0.0	5086.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	6510.3	0.0	6510.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.6	0.2
10°-20°	99.7	1.5
20°-30°	307.4	4.7
30°-40°	591.8	9.1
40°-50°	978.0	15.0
50°-60°	1471.0	22.6
60°-70°	1970.3	30.3
70°-80°	926.1	14.2
80°-90°	150.4	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°	6510.3	100.0
0°-180°	6510.3	100.0

Coefficient of Utilization



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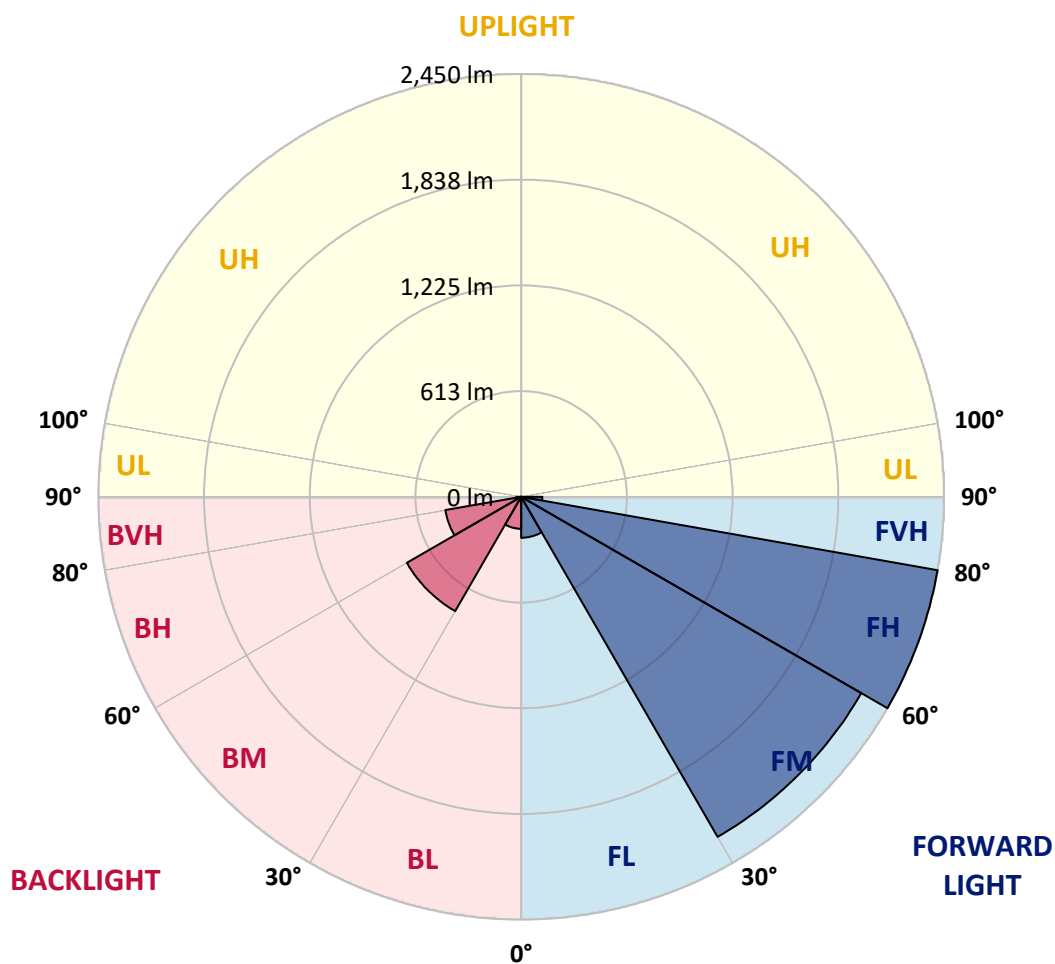
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	237.4	3.6			
FM	(30°-60°)	2275.6	35.0			
FH	(60°-80°)	2450.2	37.6			G2/5000
FVH	(80°-90°)	122.9	1.9			G2/225
BL	(0°-30°)	185.3	2.8	B1/500		
BM	(30°-60°)	765.2	11.8	B1/1000		
BH	(60°-80°)	446.2	6.9	B1/500		G1/500
BVH	(80°-90°)	27.5	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°	111.4	111.4	111.4	111.4	111.4	111.4	111.4	111.4	111.4	111.4	111.4
2.5°	185.7	184.5	184.5	185.7	183.3	182.0	158.5	153.5	148.6	144.9	141.2
5°	153.5	154.8	153.5	153.5	157.3	152.3	167.2	169.6	175.8	178.3	183.3
7.5°	246.4	247.7	245.2	242.7	199.4	159.7	154.8	154.8	154.8	159.7	158.5
10°	261.3	261.3	258.8	256.3	248.9	237.8	173.4	174.6	204.3	182.0	215.5
12.5°	365.3	367.8	362.8	345.5	266.2	330.6	333.1	329.4	326.9	318.2	310.8
15°	393.8	402.4	387.6	369.0	429.7	365.3	350.4	346.7	344.2	344.2	364.1
17.5°	543.6	546.1	534.9	500.3	454.5	435.9	430.9	428.4	427.2	427.2	429.7
20°	648.9	656.3	573.3	598.1	553.5	504.0	486.6	486.6	487.9	478.0	464.4
22.5°	714.5	712.0	673.6	688.5	610.5	563.4	606.8	617.9	630.3	635.2	642.7
25°	848.2	847.0	751.6	687.2	668.7	632.8	641.4	652.6	661.2	681.1	718.2
27.5°	863.1	861.8	793.7	765.3	663.7	723.2	812.3	830.9	842.0	844.5	842.0
30°	973.3	970.8	918.8	798.7	757.8	787.6	873.0	891.6	901.5	908.9	908.9
32.5°	1087.2	1087.2	989.4	839.6	816.0	900.2	1026.5	1032.7	1040.2	1041.4	1043.9
35°	1171.4	1145.4	1032.7	942.3	906.4	995.6	1154.1	1157.8	1180.1	1238.3	1255.6
37.5°	1216.0	1218.5	1176.4	1067.4	1071.1	1171.4	1417.8	1422.8	1426.5	1441.4	1462.4
40°	1287.8	1300.2	1270.5	1203.6	1233.3	1391.8	1646.9	1663.0	1676.6	1679.1	1720.0
42.5°	1360.9	1370.8	1372.0	1391.8	1417.8	1622.2	1868.6	1884.7	1882.2	1900.8	1962.7
45°	1483.5	1498.3	1523.1	1546.6	1604.8	1835.1	2089.0	2113.8	2093.9	2141.0	2180.6
47.5°	1640.7	1651.9	1694.0	1755.9	1779.4	2022.1	2319.3	2325.5	2342.8	2392.4	2407.2
50°	1779.4	1793.0	1846.3	1928.0	1956.5	2185.6	2495.1	2497.6	2526.1	2596.7	2568.2
52.5°	1884.7	1899.5	1945.3	2072.9	2117.5	2367.6	2631.4	2632.6	2682.1	2747.8	2689.6
55°	1942.9	1959.0	1989.9	2134.8	2221.5	2502.6	2792.3	2799.8	2870.4	2906.3	2861.7
57.5°	1945.3	1960.2	1996.1	2122.4	2266.1	2642.5	3015.2	3052.4	3126.7	3171.3	3171.3
60°	1923.1	1941.6	1976.3	2085.3	2308.2	2798.5	3358.2	3435.0	3553.9	3597.2	3695.0
62.5°	1864.9	1873.5	1894.6	2019.6	2370.1	2985.5	3852.3	3979.9	4155.7	4182.9	4382.3
65°	1732.4	1737.3	1763.3	1905.7	2367.6	3156.4	4300.6	4467.7	4664.6	4683.2	4873.9
67.5°	1559.0	1570.1	1590.0	1726.2	2143.5	3090.8	4339.0	4556.9	4710.4	4716.6	4876.4
70°	1290.3	1285.3	1308.9	1405.5	1727.4	2591.7	3922.9	4127.2	4231.2	4274.6	4383.5
72.5°	845.8	848.2	830.9	890.3	1164.0	1825.2	3160.1	3388.0	3435.0	3540.3	3594.7
75°	475.5	465.6	484.2	533.7	656.3	1098.4	2150.9	2352.7	2450.6	2537.3	2584.3
77.5°	282.3	278.6	309.6	378.9	530.0	736.8	1240.8	1341.1	1421.6	1488.4	1573.9
80°	131.3	139.9	137.4	156.0	288.5	630.3	861.8	901.5	936.1	974.5	1026.5
82.5°	64.4	70.6	81.7	85.4	101.5	318.2	769.0	808.6	842.0	880.4	932.4
85°	42.1	43.3	60.7	61.9	63.2	96.6	376.4	435.9	459.4	523.8	613.0
87.5°	14.9	21.1	44.6	39.6	39.6	47.1	127.5	139.9	146.1	159.7	178.3
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°	111.4	111.4	111.4	111.4	111.4	111.4	111.4	111.4	111.4	111.4	111.4
2.5°	139.9	139.9	135.0	130.0	127.5	127.5	123.8	123.8	122.6	121.4	118.9
5°	182.0	184.5	184.5	184.5	183.3	182.0	180.8	178.3	175.8	170.9	167.2
7.5°	154.8	152.3	149.8	144.9	146.1	149.8	153.5	158.5	165.9	169.6	170.9
10°	217.9	224.1	222.9	224.1	222.9	225.4	225.4	227.8	226.6	227.8	230.3
12.5°	298.4	273.7	250.1	245.2	243.9	242.7	245.2	243.9	250.1	253.8	253.8
15°	375.2	401.2	402.4	416.1	413.6	393.8	372.7	366.5	361.6	361.6	349.2
17.5°	430.9	439.6	440.8	437.1	442.1	440.8	434.6	427.2	418.5	402.4	378.9
20°	513.9	526.3	533.7	541.1	556.0	544.8	542.4	591.9	598.1	603.0	598.1
22.5°	652.6	651.3	647.6	627.8	617.9	616.7	620.4	630.3	629.0	632.8	636.5
25°	735.5	734.3	744.2	780.1	790.0	825.9	816.0	816.0	822.2	828.4	818.5
27.5°	835.8	847.0	860.6	859.4	876.7	871.8	870.5	880.4	880.4	868.0	875.5
30°	915.1	949.8	996.8	1011.7	1001.8	1001.8	1015.4	1029.0	1025.3	1024.1	1026.5
32.5°	1058.7	1093.4	1063.7	1097.1	1077.3	1109.5	1160.3	1194.9	1207.3	1206.1	1224.7
35°	1290.3	1296.5	1277.9	1291.5	1315.1	1321.3	1326.2	1326.2	1311.3	1336.1	1347.3
37.5°	1487.2	1456.2	1483.5	1467.4	1484.7	1504.5	1502.0	1478.5	1471.1	1511.9	1508.2
40°	1737.3	1687.8	1722.5	1713.8	1723.7	1729.9	1702.6	1686.5	1706.4	1718.7	1716.3
42.5°	1921.8	1947.8	1949.1	1945.3	1954.0	1955.3	1905.7	1913.2	1936.7	1933.0	1920.6
45°	2121.2	2164.5	2141.0	2176.9	2180.6	2132.3	2121.2	2153.4	2160.8	2148.4	2133.6
47.5°	2363.9	2392.4	2352.7	2407.2	2408.5	2354.0	2378.8	2401.0	2406.0	2381.2	2403.5
50°	2573.2	2575.6	2567.0	2609.1	2584.3	2557.1	2611.5	2623.9	2612.8	2579.4	2614.0
52.5°	2745.3	2711.8	2746.5	2804.7	2737.9	2741.6	2823.3	2813.4	2778.7	2810.9	2787.4
55°	2932.3	2902.5	2985.5	3012.8	2950.8	3007.8	3064.8	3051.1	3011.5	3077.1	3031.3
57.5°	3213.4	3220.8	3293.8	3314.9	3288.9	3415.2	3442.4	3438.7	3440.0	3483.3	3463.5
60°	3719.8	3792.9	3877.1	3941.5	3983.6	4133.4	4135.9	4138.4	4186.6	4207.7	4278.3
62.5°	4368.7	4561.9	4608.9	4686.9	4842.9	4986.6	4955.6	4959.3	5021.3	4971.7	5063.4
65°	4892.5	5098.0	5246.6	5257.8	5475.7	5519.0	5448.5	5522.8	5510.4	5510.4	5550.0
67.5°	4942.0	5153.8	5287.5	5345.7	5598.3	5587.2	5519.0	5630.5	5564.9	5620.6	5604.5
70°	4498.7	4657.2	4795.9	4919.7	5147.6	5135.2	5138.9	5292.4	5283.8	5327.1	5282.5
72.5°	3723.5	3863.5	3940.2	4165.6	4225.0	4216.4	4309.2	4321.6	4391.0	4485.1	4426.9
75°	2788.6	2880.3	2886.4	3036.3	3012.8	2984.3	2997.9	3047.4	2918.6	2836.9	2771.3
77.5°	1702.6	1723.7	1703.9	1685.3	1624.6	1565.2	1597.4	1570.1	1487.2	1433.9	1370.8
80°	1072.4	1098.4	1108.3	1167.7	1151.6	1202.4	1240.8	1279.2	1290.3	1244.5	1199.9
82.5°	993.1	1001.8	1031.5	1092.2	1103.3	1168.9	1177.6	1201.1	1160.3	1134.3	1053.8
85°	639.0	658.8	719.4	681.1	733.1	734.3	707.1	704.6	625.3	584.5	491.6
87.5°	195.6	200.6	224.1	225.4	255.1	260.0	268.7	260.0	232.8	195.6	162.2
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°	111.4	111.4	111.4	111.4	111.4	111.4	111.4	111.4	111.4	111.4	111.4
2.5°	117.6	116.4	115.2	115.2	115.2	113.9	113.9	113.9	113.9	112.7	112.7
5°	159.7	153.5	146.1	136.2	126.3	122.6	122.6	120.1	118.9	117.6	116.4
7.5°	170.9	169.6	169.6	169.6	167.2	164.7	162.2	151.1	128.8	118.9	117.6
10°	230.3	237.8	250.1	262.5	265.0	265.0	262.5	257.6	252.6	246.4	226.6
12.5°	252.6	252.6	248.9	245.2	250.1	261.3	272.4	277.4	276.1	273.7	272.4
15°	345.5	345.5	344.2	341.8	341.8	340.5	341.8	348.0	355.4	362.8	362.8
17.5°	378.9	376.4	377.7	381.4	366.5	362.8	361.6	355.4	354.2	359.1	362.8
20°	591.9	583.2	558.5	556.0	551.0	548.6	547.3	539.9	536.2	546.1	547.3
22.5°	631.5	642.7	635.2	672.4	611.7	614.2	653.8	676.1	676.1	672.4	666.2
25°	829.7	822.2	830.9	833.4	821.0	830.9	812.3	802.4	788.8	787.6	790.0
27.5°	877.9	899.0	902.7	937.4	958.4	948.5	986.9	970.8	957.2	946.1	956.0
30°	1042.6	1036.4	1046.4	1050.1	1063.7	1056.3	1042.6	1050.1	1061.2	1078.5	1064.9
32.5°	1240.8	1250.7	1259.3	1261.8	1269.2	1259.3	1260.6	1285.3	1301.4	1282.9	1254.4
35°	1359.6	1359.6	1375.7	1373.3	1359.6	1364.6	1406.7	1416.6	1399.3	1386.9	1406.7
37.5°	1511.9	1509.5	1510.7	1514.4	1505.8	1552.8	1575.1	1550.3	1531.8	1570.1	1554.1
40°	1698.9	1716.3	1701.4	1703.9	1741.0	1768.3	1744.7	1726.2	1772.0	1743.5	1720.0
42.5°	1931.7	1915.6	1894.6	1937.9	1972.6	1954.0	1926.8	1973.8	1960.2	1920.6	1988.7
45°	2162.0	2141.0	2144.7	2183.1	2196.7	2158.3	2183.1	2216.5	2154.6	2219.0	2243.8
47.5°	2365.1	2375.0	2418.4	2454.3	2407.2	2418.4	2455.5	2404.8	2451.8	2500.1	2495.1
50°	2579.4	2622.7	2652.4	2646.2	2614.0	2684.6	2651.2	2632.6	2732.9	2746.5	2761.4
52.5°	2781.2	2846.8	2853.0	2814.6	2864.2	2903.8	2858.0	2986.7	3028.9	3038.8	3080.9
55°	3067.2	3126.7	3101.9	3093.2	3217.1	3188.6	3281.5	3441.2	3461.0	3500.6	3508.1
57.5°	3542.7	3587.3	3561.3	3661.6	3761.9	3744.6	4022.0	4103.7	4216.4	4238.7	4259.7
60°	4365.0	4330.3	4330.3	4545.8	4519.7	4698.1	4898.7	4921.0	5042.3	5051.0	5075.7
62.5°	5075.7	5060.9	5177.3	5240.4	5228.0	5552.5	5604.5	5677.5	5663.9	5688.7	5538.9
65°	5484.4	5442.3	5564.9	5481.9	5718.4	5863.3	5881.9	5916.5	5858.3	5775.4	5681.3
67.5°	5489.3	5496.8	5509.1	5453.4	5723.4	5733.3	5764.2	5713.5	5663.9	5449.7	5353.1
70°	5184.7	5233.0	5127.7	5228.0	5335.8	5277.6	5257.8	5125.3	4995.3	4771.1	4580.4
72.5°	4339.0	4274.6	4211.4	4287.0	4234.9	4128.5	4000.9	3836.2	3594.7	3425.1	3241.8
75°	2620.2	2500.1	2563.3	2453.0	2297.0	2253.7	2108.8	2063.0	1869.8	1623.4	1530.5
77.5°	1307.6	1182.6	1198.7	1104.6	985.7	887.9	738.0	604.3	481.7	372.7	304.6
80°	1094.6	1034.0	973.3	874.2	773.9	642.7	508.9	360.3	245.2	179.6	153.5
82.5°	942.3	925.0	806.1	710.8	599.3	487.9	344.2	237.8	153.5	118.9	110.2
85°	435.9	392.5	340.5	325.7	256.3	209.3	156.0	115.2	89.2	79.3	73.1
87.5°	157.3	135.0	125.1	107.7	94.1	85.4	80.5	78.0	78.0	78.0	74.3
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	111.4	111.4	111.4	111.4	111.4	111.4	111.4	111.4	111.4	111.4	111.4
2.5°	112.7	112.7	111.4	111.4	111.4	111.4	111.4	110.2	110.2	110.2	112.7
5°	116.4	115.2	115.2	113.9	113.9	113.9	112.7	112.7	111.4	115.2	154.8
7.5°	117.6	118.9	118.9	118.9	118.9	118.9	117.6	117.6	117.6	131.3	152.3
10°	201.8	194.4	193.2	190.7	188.2	187.0	184.5	180.8	185.7	252.6	175.8
12.5°	265.0	236.5	214.2	210.5	208.0	204.3	204.3	194.4	203.1	241.5	188.2
15°	360.3	351.7	326.9	303.4	305.9	305.9	303.4	302.1	279.9	282.3	286.0
17.5°	371.5	390.1	403.7	372.7	344.2	325.7	330.6	356.6	320.7	307.1	366.5
20°	546.1	552.3	554.8	537.4	499.0	499.0	505.2	511.4	482.9	478.0	476.7
22.5°	655.1	662.5	657.5	665.0	655.1	648.9	636.5	622.9	608.0	548.6	586.9
25°	792.5	811.1	821.0	804.9	781.4	752.9	744.2	745.4	770.2	766.5	812.3
27.5°	968.3	958.4	946.1	957.2	967.1	936.1	925.0	913.9	907.7	1001.8	891.6
30°	1031.5	1024.1	1040.2	1024.1	1021.6	1035.2	1047.6	1027.8	1026.5	1102.1	1010.4
32.5°	1268.0	1263.1	1225.9	1240.8	1256.9	1259.3	1258.1	1279.2	1266.8	1282.9	1061.2
35°	1381.9	1355.9	1391.8	1396.8	1379.5	1401.7	1401.7	1396.8	1430.2	1364.6	1103.3
37.5°	1535.5	1554.1	1577.6	1585.0	1603.6	1562.7	1596.2	1602.3	1654.4	1445.1	1072.4
40°	1780.7	1794.3	1809.1	1806.7	1788.1	1832.7	1789.3	1806.7	1864.9	1492.1	1037.7
42.5°	2008.5	2020.9	2043.2	2041.9	2049.4	2027.1	2061.7	2049.4	2056.8	1504.5	994.3
45°	2250.0	2280.9	2259.9	2305.7	2293.3	2284.6	2305.7	2298.3	2222.7	1528.0	921.3
47.5°	2523.6	2516.2	2537.3	2537.3	2545.9	2560.8	2538.5	2544.7	2366.4	1544.1	842.0
50°	2762.6	2773.8	2794.8	2792.3	2810.9	2793.6	2814.6	2745.3	2485.2	1534.2	740.5
52.5°	3073.4	3118.0	3094.5	3106.9	3087.1	3118.0	3053.6	3021.4	2647.5	1487.2	636.5
55°	3589.8	3520.5	3565.0	3515.5	3519.2	3510.5	3428.8	3406.5	2884.0	1462.4	517.6
57.5°	4236.2	4228.8	4195.3	4133.4	4118.5	4065.3	3997.2	3917.9	3261.6	1455.0	419.8
60°	5020.0	4990.3	4886.3	4828.1	4721.6	4613.9	4554.4	4457.8	3664.1	1422.8	346.7
62.5°	5526.5	5400.2	5324.6	5185.9	5086.9	4961.8	4865.2	4685.7	3778.0	1351.0	307.1
65°	5551.2	5433.6	5304.8	5141.4	4981.6	4872.7	4698.1	4530.9	3607.1	1167.7	256.3
67.5°	5193.4	5065.8	4810.7	4689.4	4533.4	4404.6	4194.1	4048.0	3171.3	937.4	203.1
70°	4473.9	4258.5	4023.2	3859.7	3727.2	3576.2	3378.0	3218.3	2531.1	689.7	157.3
72.5°	3098.2	2974.4	2757.7	2674.7	2544.7	2471.6	2366.4	2303.2	1790.6	474.3	130.0
75°	1507.0	1414.1	1284.1	1311.3	1219.7	1239.5	1253.1	1180.1	989.4	268.7	112.7
77.5°	281.1	294.7	262.5	262.5	266.2	253.8	256.3	278.6	277.4	136.2	95.3
80°	143.6	141.2	136.2	133.7	127.5	123.8	118.9	116.4	112.7	97.8	83.0
82.5°	104.0	97.8	91.6	87.9	84.2	79.3	75.5	76.8	84.2	96.6	89.2
85°	66.9	64.4	59.4	58.2	57.0	55.7	57.0	59.4	80.5	115.2	87.9
87.5°	71.8	65.6	59.4	57.0	55.7	53.2	52.0	55.7	85.4	125.1	75.5
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°	111.4	111.4	111.4	111.4	111.4	111.4	111.4
2.5°	115.2	123.8	152.3	174.6	177.1	177.1	175.8
5°	173.4	120.1	111.4	113.9	109.0	110.2	109.0
7.5°	110.2	110.2	112.7	156.0	175.8	183.3	178.3
10°	131.3	174.6	177.1	184.5	185.7	184.5	183.3
12.5°	255.1	251.4	191.9	204.3	266.2	269.9	268.7
15°	274.9	272.4	331.9	274.9	284.8	287.3	284.8
17.5°	359.1	359.1	357.9	329.4	370.2	370.2	369.0
20°	424.7	442.1	429.7	412.3	362.8	364.1	364.1
22.5°	601.8	491.6	469.3	449.5	407.4	407.4	406.2
25°	620.4	552.3	492.8	430.9	395.0	432.2	428.4
27.5°	799.9	577.0	463.1	438.4	392.5	381.4	381.4
30°	787.6	609.2	517.6	400.0	378.9	362.8	355.4
32.5°	833.4	603.0	456.9	364.1	308.3	302.1	294.7
35°	807.4	572.1	391.3	289.8	236.5	225.4	225.4
37.5°	780.1	487.9	315.8	215.5	188.2	179.6	180.8
40°	687.2	392.5	219.2	165.9	165.9	167.2	167.2
42.5°	586.9	272.4	161.0	142.4	149.8	154.8	153.5
45°	461.9	183.3	130.0	131.3	141.2	144.9	144.9
47.5°	329.4	136.2	118.9	122.6	133.7	138.7	137.4
50°	224.1	116.4	111.4	117.6	128.8	131.3	131.3
52.5°	162.2	110.2	106.5	112.7	123.8	126.3	126.3
55°	135.0	107.7	104.0	109.0	118.9	121.4	122.6
57.5°	127.5	107.7	102.8	107.7	115.2	117.6	117.6
60°	127.5	109.0	105.3	107.7	111.4	113.9	115.2
62.5°	130.0	115.2	110.2	110.2	110.2	111.4	111.4
65°	135.0	126.3	118.9	115.2	110.2	106.5	107.7
67.5°	141.2	137.4	131.3	121.4	107.7	100.3	100.3
70°	146.1	148.6	146.1	126.3	105.3	92.9	91.6
72.5°	144.9	157.3	148.6	127.5	102.8	86.7	85.4
75°	136.2	146.1	128.8	115.2	96.6	81.7	79.3
77.5°	118.9	107.7	89.2	89.2	80.5	73.1	70.6
80°	95.3	71.8	59.4	63.2	60.7	45.8	39.6
82.5°	75.5	47.1	44.6	47.1	45.8	33.4	28.5
85°	61.9	32.2	32.2	35.9	32.2	24.8	18.6
87.5°	48.3	18.6	21.1	19.8	19.8	14.9	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)