

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: P239988

Luminaire Tested: **UTLD-AF24-70-D-U-T2U-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-18)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-70-D-U-T2U-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5561 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

Input Watts (W): 74
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



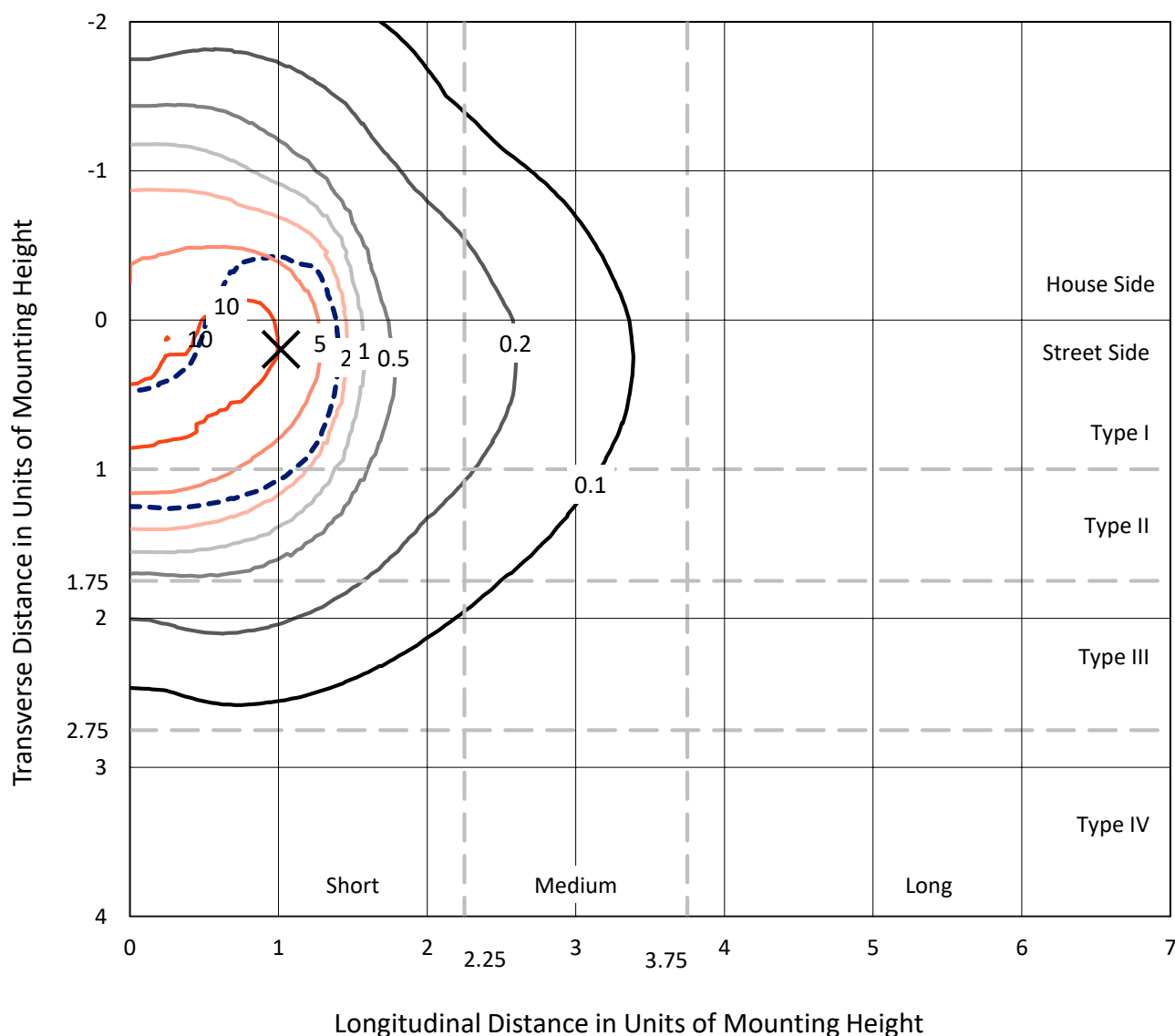
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

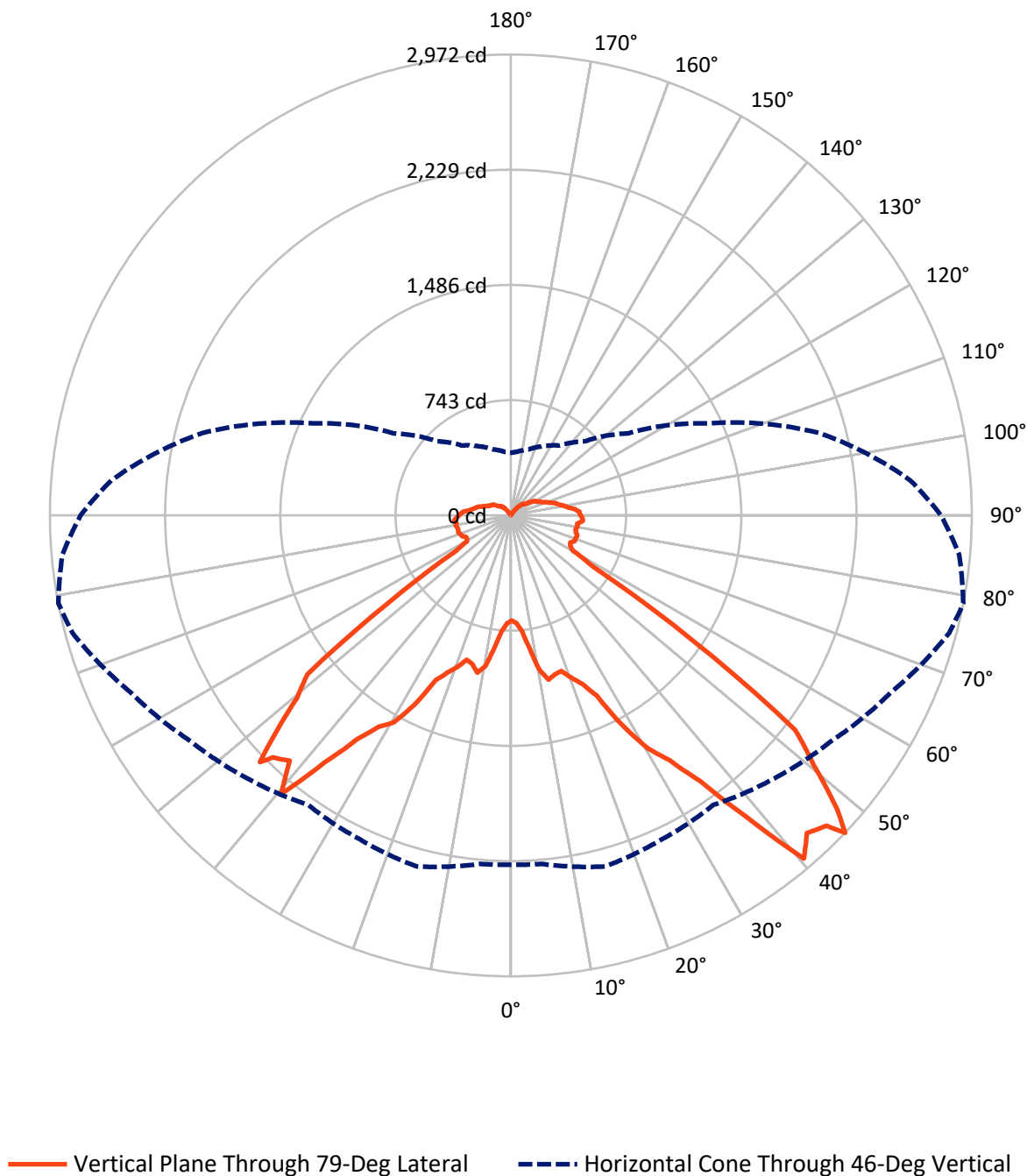


Based on 10 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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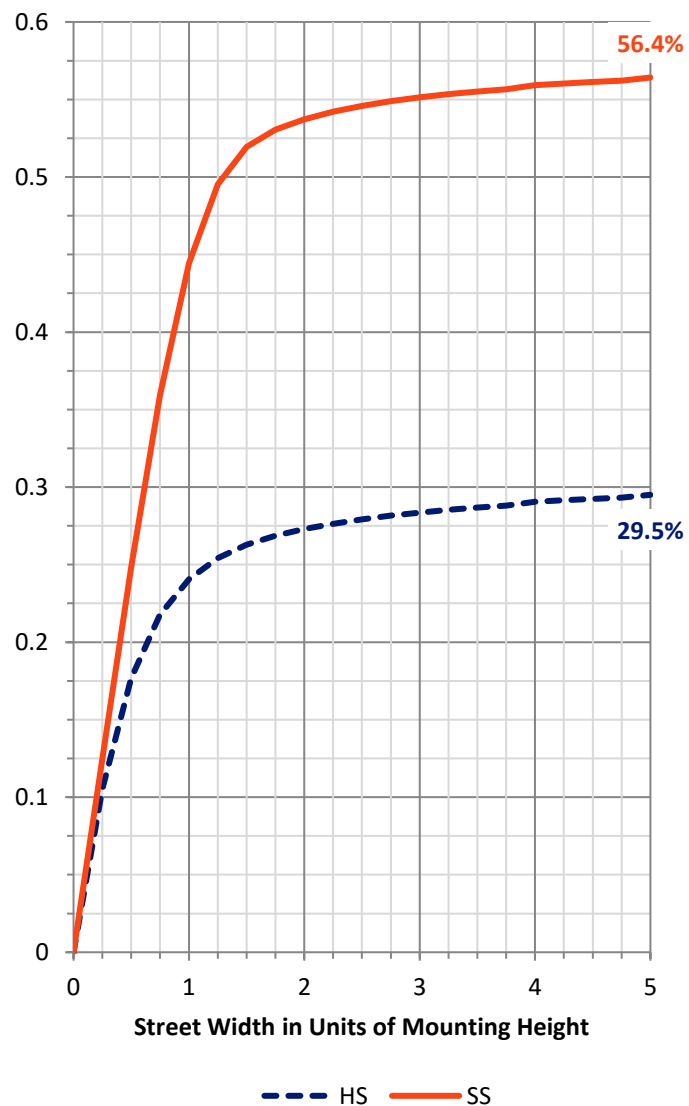
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1695.1	210.8	1906.0
	% Fixture	30.5	3.8	34.3
Street Side	Lumens	3197.7	457.4	3655.0
	% Fixture	57.5	8.2	65.7
Total	Lumens	4892.8	668.2	5561.0
	% Fixture	88.0	12.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	1.3
10°-20°	264.2	4.8
20°-30°	533.8	9.6
30°-40°	977.1	17.6
40°-50°	1350.3	24.3
50°-60°	861.9	15.5
60°-70°	308.7	5.6
70°-80°	277.2	5.0
80°-90°	246.5	4.4
90°-100°	226.1	4.1
100°-110°	175.8	3.2
110°-120°	122.0	2.2
120°-130°	81.7	1.5
130°-140°	49.0	0.9
140°-150°	13.0	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4892.8	88.0
0°-180°	5561.0	100.0

Coefficient of Utilization



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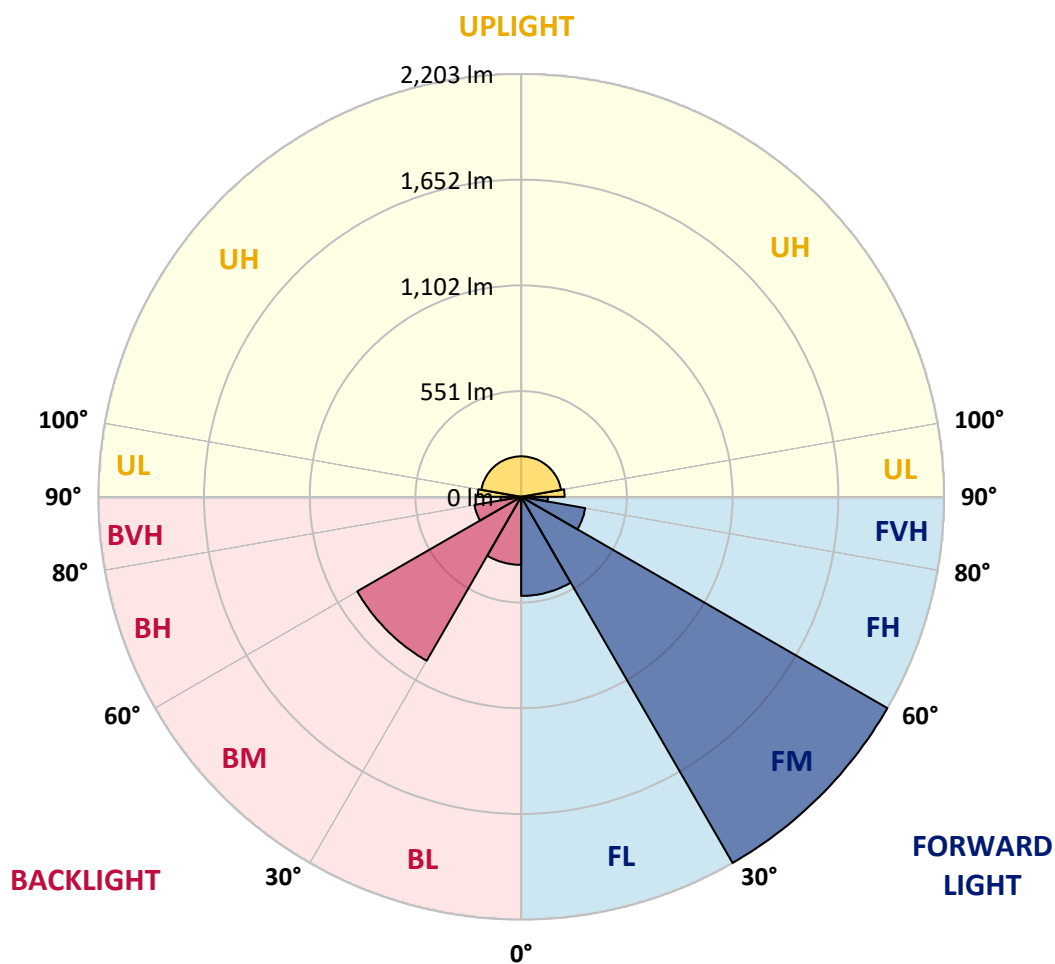
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	516.5	9.3			
FM	(30°-60°)	2203.1	39.6			
FH	(60°-80°)	338.8	6.1			G0/660
FVH	(80°-90°)	139.2	2.5			G2/225
BL	(0°-30°)	354.5	6.4	B1/500		
BM	(30°-60°)	986.2	17.7	B1/1000		
BH	(60°-80°)	247.1	4.4	B1/500		G1/500
BVH	(80°-90°)	107.3	1.9			G2/225
UL	(90°-100°)	226.1	4.1		U3/500	
UH	(100°-180°)	210.8	3.8		U3/500	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	689.0	691.2	690.5	689.0	692.0	693.4	693.4	692.7	693.4	694.9	697.9
5°	721.8	721.1	723.3	729.3	737.5	739.7	746.4	745.0	748.7	748.7	753.2
7.5°	779.3	780.0	787.5	793.5	802.4	821.8	840.5	865.1	864.4	862.9	868.9
10°	839.0	839.0	853.9	875.6	912.2	953.2	971.1	992.8	1015.2	1011.4	1005.5
12.5°	857.7	860.7	886.8	940.5	1019.6	1089.8	1125.6	1121.2	1098.8	1086.1	1065.9
15°	892.0	895.7	924.1	1006.2	1100.3	1163.0	1176.4	1121.2	1072.6	1063.7	1046.5
17.5°	1021.1	1021.1	1050.2	1125.6	1196.6	1182.4	1129.4	1103.2	1071.9	1054.7	1030.1
20°	1110.7	1115.9	1162.2	1215.2	1254.0	1207.7	1208.5	1160.0	1127.9	1117.4	1094.3
22.5°	1197.3	1204.8	1218.2	1301.1	1312.3	1321.2	1294.3	1250.3	1196.6	1179.4	1155.5
25°	1380.9	1383.2	1397.3	1436.9	1407.0	1392.1	1353.3	1317.5	1296.6	1287.6	1262.2
27.5°	1598.9	1592.2	1598.1	1601.1	1555.6	1514.5	1457.8	1495.9	1525.7	1533.9	1511.6
30°	1643.7	1632.5	1678.0	1726.5	1704.1	1654.9	1651.1	1696.7	1752.7	1742.2	1710.9
32.5°	1824.3	1807.1	1828.0	1833.3	1829.5	1815.4	1809.4	1866.9	1907.2	1884.0	1838.5
35°	1969.9	1969.1	1895.2	1912.4	1922.8	1955.7	1988.5	2066.9	2102.7	2104.2	2066.2
37.5°	2281.1	2258.7	2231.1	2122.1	2064.7	2079.6	2193.1	2331.9	2412.5	2465.5	2405.0
40°	2387.9	2397.6	2374.4	2362.5	2278.9	2243.8	2374.4	2613.3	2832.0	2909.6	2902.2
42.5°	2212.5	2234.9	2221.4	2304.3	2370.7	2415.5	2573.0	2777.5	2819.3	2799.2	2692.4
45°	2358.8	2358.8	2322.9	2271.4	2294.6	2440.1	2564.8	2702.9	2833.5	2854.4	2795.4
46°	2252.8	2255.0	2343.1	2304.3	2278.1	2399.1	2529.0	2702.9	2926.1	2971.6	2902.2
47.5°	2057.2	2053.5	2215.4	2228.1	2246.1	2345.3	2487.9	2702.1	2828.3	2831.3	2744.7
50°	1630.2	1637.0	1859.4	1977.3	2095.3	2193.1	2385.6	2506.6	2534.9	2529.7	2435.6
52.5°	1323.4	1341.4	1459.3	1607.8	1750.4	1938.5	2162.5	2275.2	2337.1	2296.1	2209.5
55°	917.4	956.2	1104.7	1238.4	1447.4	1628.0	1821.3	1831.8	1548.9	1419.7	1259.3
57.5°	567.3	574.8	706.1	895.0	1051.7	1193.6	1195.8	929.3	723.3	628.5	522.5
60°	315.0	321.7	438.2	577.7	730.8	747.9	668.1	537.4	482.2	457.6	420.2
62.5°	234.4	239.6	315.7	401.6	462.8	487.4	448.6	439.7	440.4	429.2	404.6
65°	211.2	214.2	276.9	320.2	356.1	361.3	375.5	406.8	424.0	421.7	411.3
67.5°	191.8	195.6	252.3	283.6	305.3	330.7	342.6	391.1	437.4	444.9	435.2
70°	170.9	176.9	227.7	260.5	285.1	309.8	333.7	394.1	431.4	441.9	437.4
72.5°	147.8	155.3	197.8	232.1	259.8	286.6	327.7	379.2	430.0	448.6	451.6
75°	129.9	139.6	174.7	205.3	234.4	266.5	309.8	374.0	421.7	433.7	439.7
77.5°	117.2	127.6	154.5	182.9	210.5	245.6	295.6	372.5	413.5	427.0	437.4
80°	107.5	117.9	140.3	162.7	185.9	225.4	280.7	370.2	421.7	435.9	441.9
82.5°	100.0	109.7	129.1	149.3	168.0	203.8	270.2	366.5	419.5	431.4	434.4
85°	100.8	108.2	126.1	144.8	162.0	192.6	265.0	368.0	447.1	465.8	468.8
87.5°	106.0	111.2	129.9	151.5	170.9	202.3	274.7	365.0	444.1	461.3	468.8
90°	115.0	119.4	141.8	167.2	190.3	219.5	272.5	356.8	431.4	447.1	451.6
92.5°	142.6	146.3	170.9	198.6	218.7	228.4	263.5	369.5	433.7	442.6	442.6
95°	184.4	188.9	212.7	233.6	237.4	232.1	259.0	328.4	395.6	415.0	426.2
97.5°	230.7	232.1	245.6	249.3	238.1	226.2	253.0	306.8	359.0	372.5	375.5
100°	245.6	245.6	254.5	251.6	229.9	213.5	229.2	279.2	329.9	344.9	349.3
102.5°	248.6	250.1	259.0	249.3	220.2	193.3	203.8	251.6	298.6	315.0	324.0
105°	263.5	264.2	259.0	235.1	199.3	175.4	184.4	232.1	282.2	297.8	307.5
107.5°	246.3	244.1	229.9	207.5	183.6	166.5	176.9	212.0	250.1	262.7	269.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	203.8	202.3	197.1	188.9	173.9	161.2	168.0	200.0	236.6	246.3	252.3
112.5°	196.3	194.8	189.6	179.9	162.7	153.0	164.2	191.8	214.2	218.7	219.5
115°	188.9	187.4	175.4	164.2	150.8	146.3	153.8	179.1	200.0	205.3	209.8
117.5°	162.7	161.2	152.3	145.6	140.3	142.6	155.3	169.4	184.4	188.9	191.8
120°	144.8	144.1	139.6	135.1	132.1	133.6	147.0	162.7	177.7	182.1	184.4
122.5°	136.6	135.9	130.6	123.9	123.9	123.9	134.4	146.3	162.7	166.5	171.7
125°	120.2	120.2	115.0	109.7	117.2	120.2	122.4	123.2	135.9	141.8	144.1
127.5°	106.7	107.5	103.0	99.3	112.7	119.4	117.9	108.2	115.7	120.2	123.2
130°	105.2	105.2	100.0	95.5	102.3	115.7	111.2	101.5	110.5	113.5	115.0
132.5°	102.3	102.3	97.0	90.3	91.8	106.7	97.0	94.8	103.0	106.0	106.7
135°	94.1	94.1	90.3	81.4	75.4	90.3	78.4	82.9	91.1	93.3	94.1
137.5°	83.6	83.6	79.9	72.4	59.7	67.9	60.5	70.2	78.4	80.6	81.4
140°	68.7	67.9	65.7	56.7	43.3	38.1	41.1	56.0	64.2	65.7	67.9
142.5°	50.8	51.5	47.8	40.3	26.1	14.2	23.9	35.8	44.8	47.0	48.5
145°	37.3	36.6	32.8	26.1	14.2	2.2	11.2	22.4	28.4	30.6	32.1
147.5°	24.6	24.6	21.6	15.7	4.5	0.7	3.0	11.2	17.9	19.4	20.2
150°	16.4	16.4	11.9	4.5	0.7	0.7	0.7	2.2	7.5	9.0	10.5
152.5°	5.2	5.2	2.2	1.5	0.7	0.0	0.0	0.7	1.5	1.5	2.2
155°	1.5	1.5	1.5	0.7	0.0	0.0	0.0	0.0	0.7	0.7	0.7
157.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	698.7	697.9	695.7	693.4	687.5	680.0	672.5	667.3	664.3	662.1	661.4
5°	751.7	753.2	742.7	725.5	709.1	694.2	680.0	666.6	659.1	653.1	650.9
7.5°	864.4	866.6	845.7	818.9	777.0	726.3	683.0	653.9	633.0	620.3	618.1
10°	1004.0	998.0	973.4	915.9	839.8	761.4	680.0	617.3	583.7	568.0	567.3
12.5°	1060.7	1052.5	1024.9	977.1	897.2	795.0	694.2	611.3	561.3	541.2	540.4
15°	1034.6	1020.4	969.6	925.6	894.2	837.5	747.2	652.4	583.7	558.3	551.6
17.5°	1012.2	998.0	955.4	892.0	833.0	808.4	764.4	686.0	614.3	578.5	571.0
20°	1077.9	1068.9	1015.9	931.6	866.6	768.1	732.3	678.5	624.8	602.4	596.4
22.5°	1138.3	1133.8	1067.4	979.3	892.0	823.3	751.7	712.1	659.9	644.2	637.5
25°	1251.0	1230.1	1121.2	1002.5	927.1	859.9	768.1	706.1	642.7	622.5	618.8
27.5°	1516.0	1467.5	1308.5	1130.1	978.6	871.8	766.6	675.5	606.1	580.7	579.2
30°	1684.7	1640.7	1461.5	1265.2	1059.2	900.2	756.9	647.2	594.9	570.3	571.0
32.5°	1787.0	1728.0	1526.5	1277.9	1077.9	914.4	762.9	637.5	567.3	535.9	535.2
35°	2008.7	1926.6	1634.0	1380.2	1114.4	893.5	737.5	617.3	552.4	529.2	526.2
37.5°	2324.4	2231.9	1835.5	1463.0	1129.4	865.9	704.6	594.2	516.5	484.4	482.2
40°	2780.5	2644.7	2114.7	1563.1	1117.4	845.0	668.8	559.1	494.9	474.0	467.3
42.5°	2554.3	2400.6	1948.2	1543.6	1087.6	787.5	634.5	541.9	482.2	465.8	456.8
45°	2695.4	2516.3	1968.4	1435.4	973.4	702.4	576.3	507.6	447.9	424.7	422.5
46°	2773.8	2586.4	2055.7	1402.6	921.1	675.5	550.1	491.9	440.4	410.5	403.8
47.5°	2603.6	2395.3	1890.0	1338.4	879.3	615.1	515.8	467.3	432.2	404.6	400.1
50°	2283.4	2079.6	1634.7	1141.3	756.9	542.7	459.8	430.7	395.6	365.8	360.5
52.5°	2084.1	1913.1	1496.6	1035.3	642.7	457.6	410.5	385.2	349.3	314.3	309.8
55°	1145.8	1027.9	924.8	777.8	533.0	386.7	357.5	342.6	306.0	271.7	269.5
57.5°	471.8	424.0	420.2	396.4	366.5	325.4	309.0	300.1	263.5	221.7	220.2
60°	397.1	353.8	312.0	274.7	272.5	271.7	266.5	250.8	210.5	167.2	165.7
62.5°	386.7	344.1	303.1	257.5	238.1	244.1	234.4	215.0	184.4	142.6	141.1
65°	394.1	350.1	301.6	250.1	229.2	231.4	220.9	206.0	185.1	155.3	153.8
67.5°	419.5	374.0	319.5	247.1	221.7	226.2	218.7	207.5	195.6	176.9	173.2
70°	423.2	382.9	320.2	248.6	213.5	218.7	216.5	206.8	198.6	182.1	179.9
72.5°	434.4	397.9	326.9	243.3	204.5	206.8	209.8	206.8	201.5	191.8	188.1
75°	424.0	391.9	324.0	238.9	195.6	194.1	201.5	205.3	206.8	203.0	198.6
77.5°	421.7	394.9	324.7	235.9	187.4	181.4	187.4	193.3	196.3	192.6	188.9
80°	424.7	401.6	334.4	236.6	178.4	163.5	166.5	173.2	173.9	167.2	162.0
82.5°	418.0	395.6	324.0	228.4	164.2	145.6	146.3	153.0	153.8	145.6	139.6
85°	447.9	421.0	331.4	218.0	149.3	132.9	133.6	136.6	132.1	123.2	117.2
87.5°	447.1	415.0	316.5	201.5	139.6	125.4	124.7	123.9	116.4	106.0	100.8
90°	431.4	397.9	296.3	177.7	123.2	115.0	112.7	108.2	97.8	85.8	82.1
92.5°	421.0	385.2	282.9	168.0	108.2	100.8	99.3	94.8	84.3	71.7	69.4
95°	409.8	374.7	260.5	147.0	95.5	88.1	85.8	81.4	73.2	62.7	61.2
97.5°	361.3	326.9	229.9	133.6	85.1	76.9	75.4	71.7	64.9	57.5	56.7
100°	333.7	303.1	213.5	122.4	76.1	67.2	66.4	64.2	59.7	54.5	53.7
102.5°	312.0	282.2	197.8	113.5	67.9	59.7	59.0	58.2	56.0	52.3	52.3
105°	295.6	267.2	189.6	106.0	61.2	54.5	53.7	53.7	51.5	49.3	49.3
107.5°	257.5	233.6	165.0	94.1	56.0	50.0	50.0	50.0	48.5	47.0	47.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	242.6	220.2	156.8	88.1	53.7	46.3	45.5	45.5	44.8	45.5	45.5
112.5°	209.0	189.6	138.1	84.3	52.3	44.0	41.8	40.3	38.8	40.3	41.1
115°	200.8	182.9	133.6	81.4	50.8	42.5	39.6	37.3	34.3	36.6	36.6
117.5°	184.4	168.0	123.9	79.1	50.8	40.3	37.3	35.1	32.1	33.6	33.6
120°	176.9	162.7	124.7	81.4	51.5	38.1	35.1	31.4	29.1	31.4	31.4
122.5°	166.5	153.8	117.2	76.9	49.3	37.3	34.3	26.9	25.4	27.6	27.6
125°	139.6	129.1	100.8	67.9	47.0	37.3	33.6	23.9	23.9	25.4	26.1
127.5°	118.7	110.5	87.3	63.4	47.8	39.6	32.1	20.9	22.4	24.6	24.6
130°	112.0	105.2	86.6	64.9	50.0	41.8	26.1	19.4	20.9	23.1	23.1
132.5°	104.5	98.5	83.6	66.4	50.8	39.6	21.6	17.9	19.4	20.9	20.9
135°	91.8	87.3	75.4	60.5	45.5	31.4	17.2	15.7	17.9	19.4	20.2
137.5°	80.6	76.9	66.4	54.5	41.1	26.9	11.9	14.2	15.7	16.4	17.2
140°	66.4	64.2	56.0	44.8	30.6	14.9	9.0	11.2	12.7	14.2	14.2
142.5°	48.5	47.0	39.6	29.1	18.7	6.0	6.0	8.2	9.7	11.2	11.2
145°	32.1	30.6	25.4	18.7	8.2	1.5	3.7	6.0	8.2	9.0	9.0
147.5°	20.2	19.4	15.7	9.7	3.0	1.5	1.5	4.5	6.0	6.7	6.7
150°	10.5	9.7	6.7	3.0	1.5	0.7	0.7	1.5	3.7	4.5	4.5
152.5°	2.2	2.2	1.5	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
157.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)