

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: P266481

Luminaire Tested: **UTLD-AF24-80-D-U-T3-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-15)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-80-D-U-T3-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5886.9 lumens
Efficiency: N/A
Efficacy: 70.9 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): 83
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



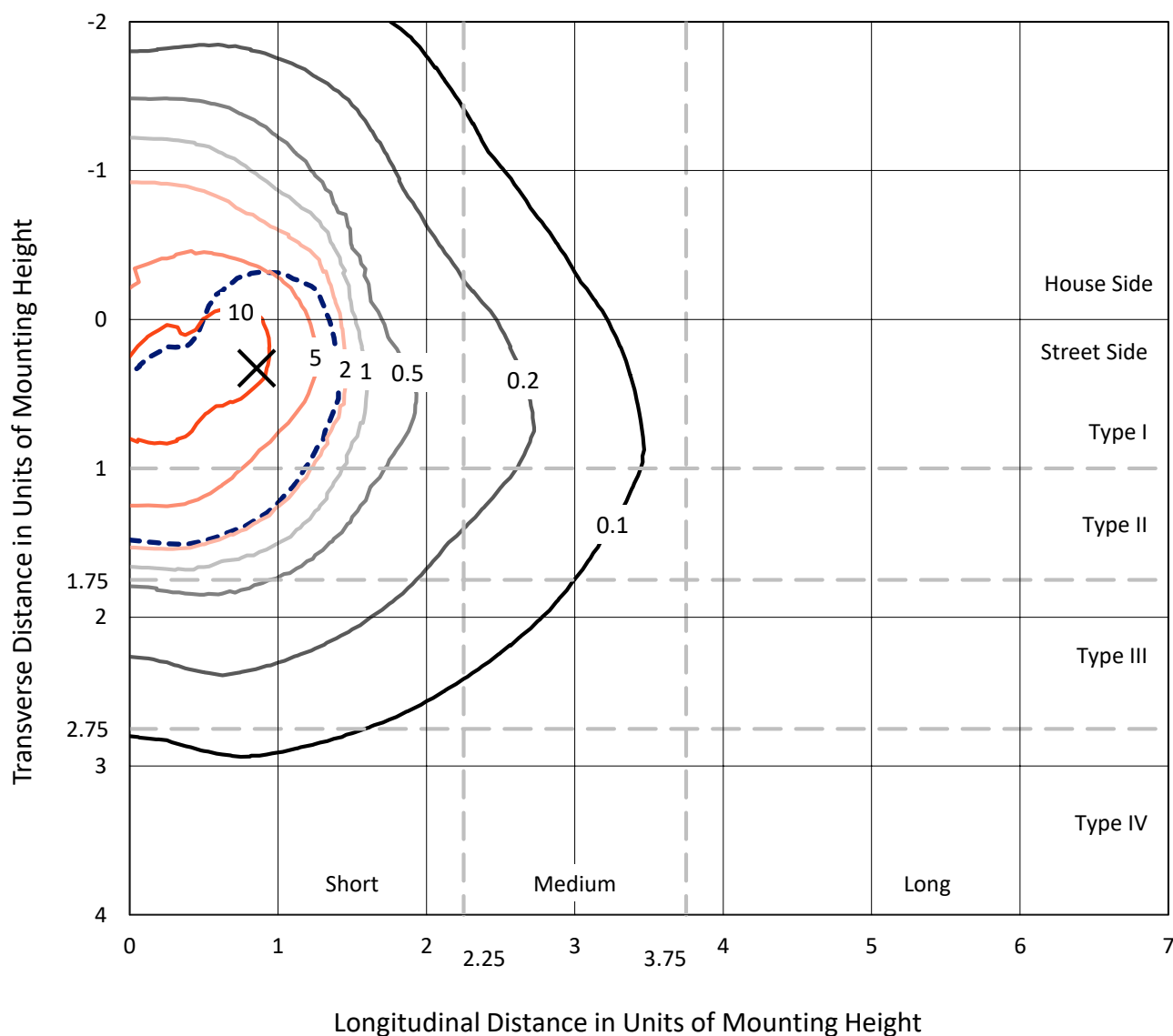
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

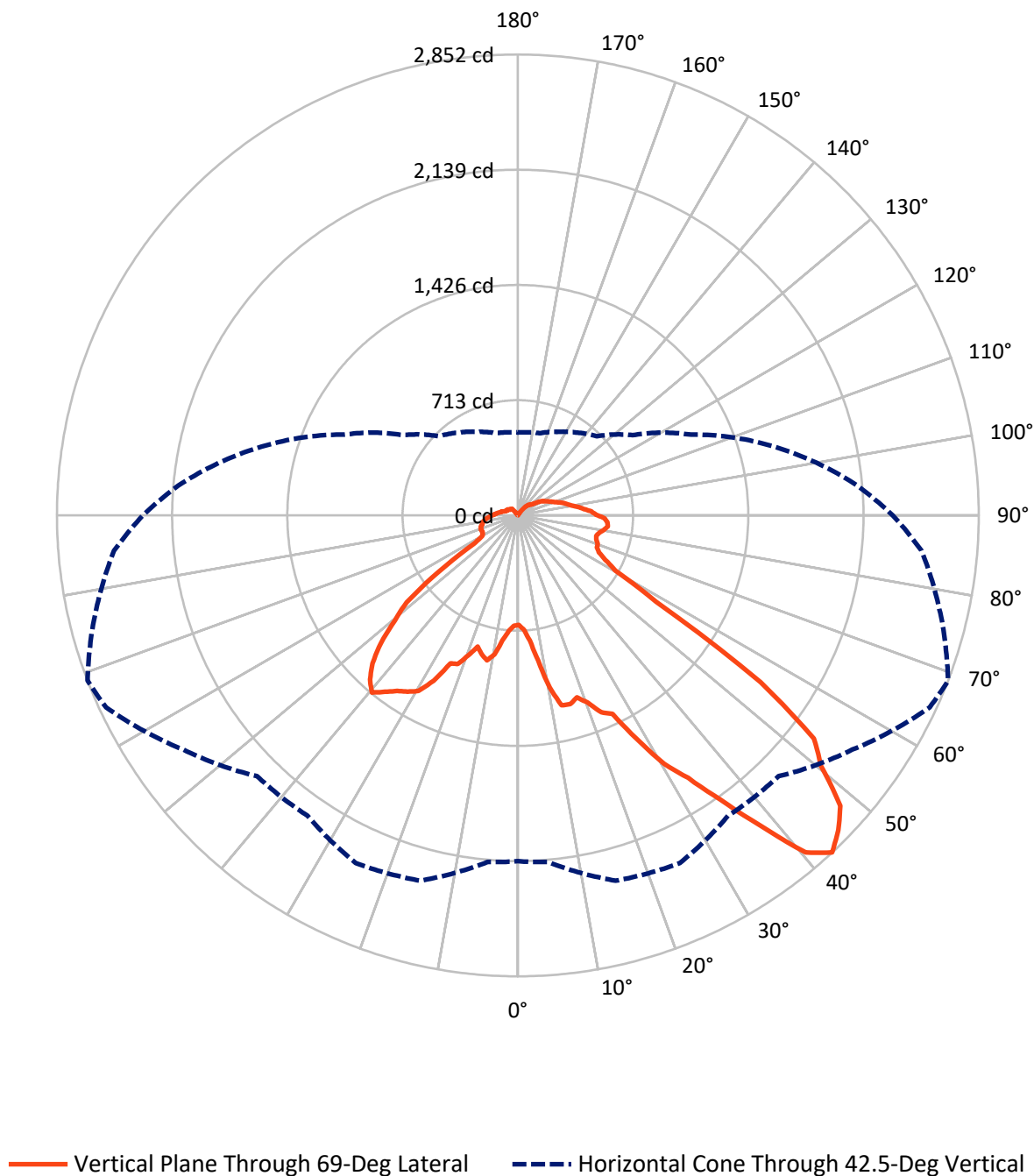


Based on 10 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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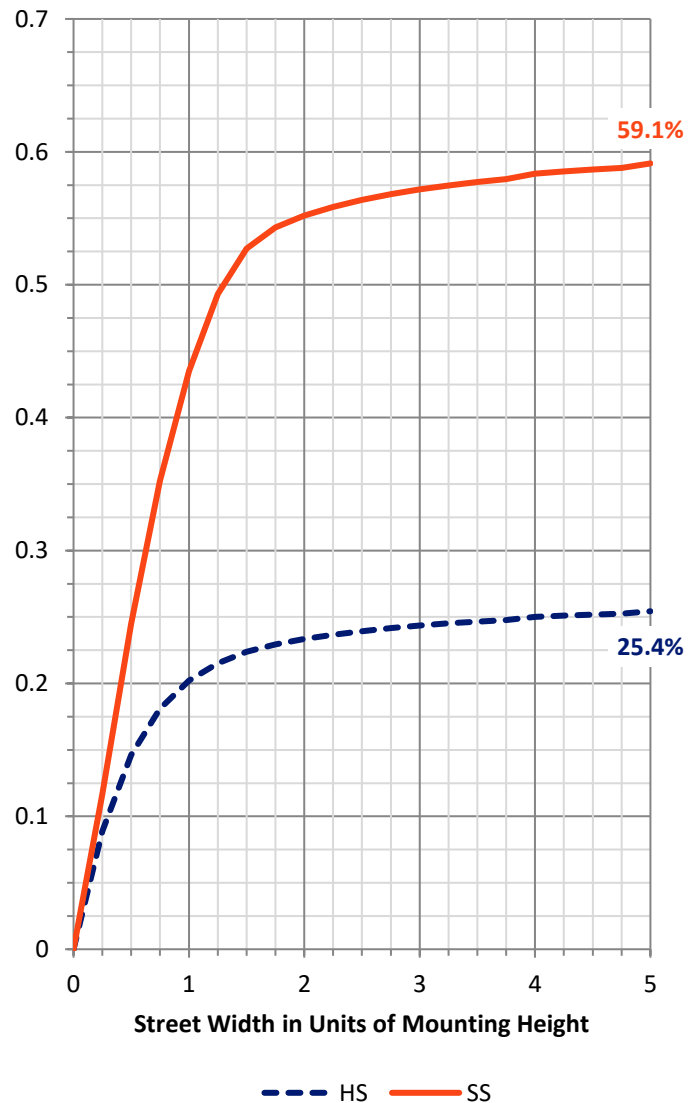
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1551.1	186.9	1738.1
	% Fixture	26.3	3.2	29.5
Street Side	Lumens	3594.3	554.6	4148.9
	% Fixture	61.1	9.4	70.5
Total	Lumens	5145.4	741.5	5886.9
	% Fixture	87.4	12.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	1.3
10°-20°	283.2	4.8
20°-30°	579.2	9.8
30°-40°	974.2	16.5
40°-50°	1289.6	21.9
50°-60°	930.0	15.8
60°-70°	365.3	6.2
70°-80°	329.2	5.6
80°-90°	320.8	5.4
90°-100°	270.6	4.6
100°-110°	192.4	3.3
110°-120°	129.7	2.2
120°-130°	84.8	1.4
130°-140°	50.7	0.9
140°-150°	12.8	0.2
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5145.4	87.4
0°-180°	5886.9	100.0

Coefficient of Utilization



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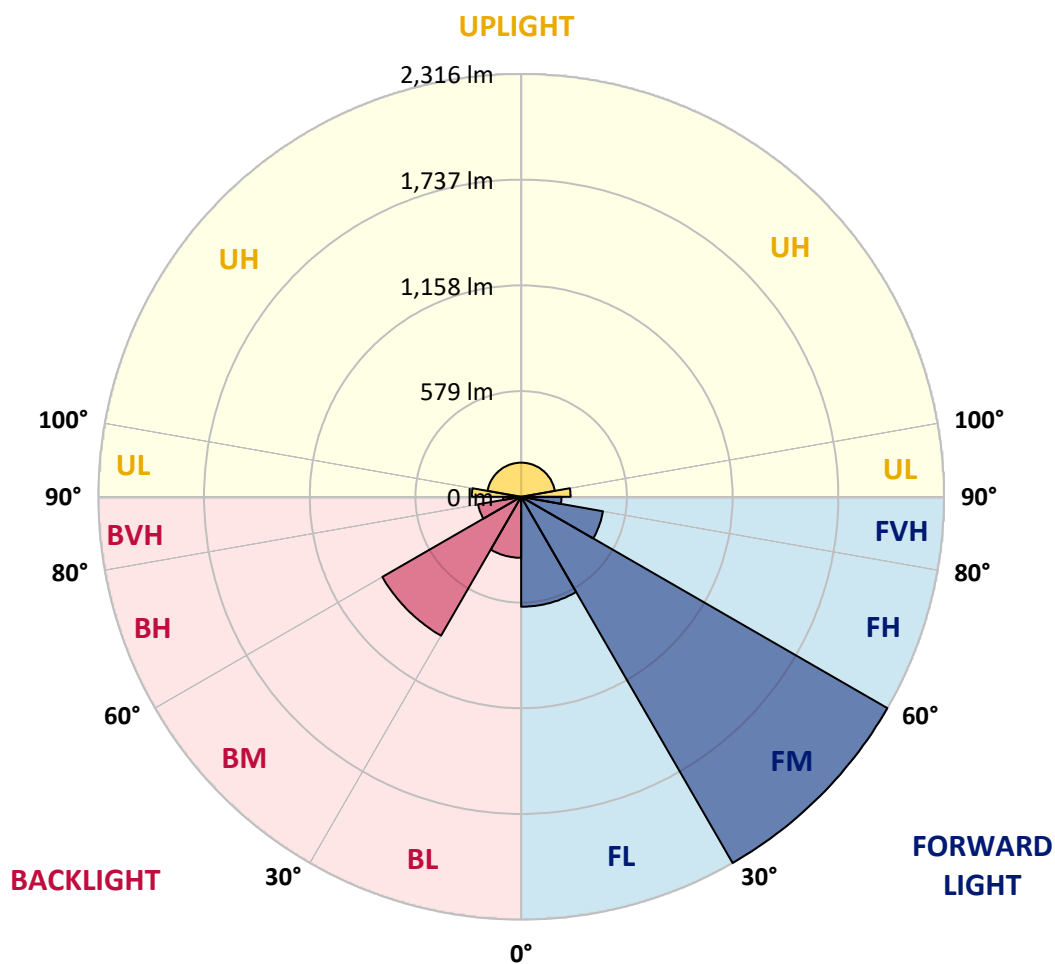
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	602.1	10.2			
FM	(30°-60°)	2315.9	39.3			
FH	(60°-80°)	455.2	7.7			G0/660
FVH	(80°-90°)	221.0	3.8			G2/225
BL	(0°-30°)	334.1	5.7	B1/500		
BM	(30°-60°)	878.0	14.9	B1/1000		
BH	(60°-80°)	239.3	4.1	B1/500		G1/500
BVH	(80°-90°)	99.8	1.7			G1/100
UL	(90°-100°)	270.6	4.6		U3/500	
UH	(100°-180°)	186.9	3.2		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°	69°	75°	85°
0°	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4
2.5°	721.5	717.4	715.9	715.9	713.4	712.6	714.2	711.8	707.9	707.1	702.2
5°	772.0	770.3	769.6	776.0	781.5	783.2	781.5	781.5	776.8	776.8	761.6
7.5°	852.9	850.5	857.0	873.1	878.6	895.4	915.5	903.4	906.7	897.9	869.0
10°	946.8	942.7	972.3	994.1	1043.7	1064.6	1090.3	1087.8	1082.9	1067.7	1019.7
12.5°	1031.8	1029.3	1067.7	1146.3	1212.9	1280.3	1285.8	1230.5	1205.6	1151.2	1091.0
15°	1137.6	1139.9	1198.5	1309.9	1408.5	1435.8	1367.6	1258.5	1212.1	1155.9	1066.9
17.5°	1308.3	1316.2	1415.6	1542.3	1608.1	1498.3	1352.4	1227.4	1183.2	1122.3	1036.6
20°	1407.6	1412.5	1548.8	1720.3	1739.6	1561.6	1410.1	1275.5	1237.0	1188.8	1118.3
22.5°	1467.0	1484.5	1640.9	1851.0	1839.8	1709.0	1499.0	1371.6	1323.6	1257.7	1200.0
25°	1562.4	1575.2	1725.1	1927.9	1878.3	1757.2	1578.4	1408.5	1361.2	1313.1	1255.3
27.5°	1691.5	1703.5	1871.8	1988.8	1936.7	1821.4	1697.1	1588.1	1563.2	1555.1	1530.4
30°	1760.4	1768.5	1957.5	2056.2	1967.2	1913.5	1879.1	1791.7	1784.5	1768.5	1711.5
32.5°	1799.7	1830.1	2049.8	2106.6	1990.5	1984.0	2004.8	1951.2	1936.7	1909.4	1843.7
35°	1835.0	1850.1	2056.9	2143.5	2028.2	2024.9	2168.4	2193.3	2161.2	2105.1	1948.0
37.5°	2106.6	2113.9	2255.9	2225.3	2077.8	2095.4	2332.0	2461.0	2432.2	2362.5	2254.1
40°	2254.1	2267.1	2398.5	2335.1	2182.8	2203.0	2449.8	2717.6	2743.2	2740.8	2646.1
42.5°	2139.6	2153.1	2339.9	2373.6	2268.6	2282.2	2526.8	2811.3	2852.2	2726.4	2508.2
45°	2513.1	2523.6	2628.6	2382.5	2210.1	2262.2	2466.7	2743.2	2780.1	2743.2	2556.3
47.5°	2512.3	2499.5	2586.8	2407.3	2206.1	2170.8	2336.0	2612.5	2685.5	2601.3	2398.5
50°	2208.6	2207.8	2423.4	2320.0	2162.8	2081.1	2192.5	2411.3	2428.9	2330.4	2058.6
52.5°	1928.8	1927.1	2176.5	2123.6	2020.8	1940.8	2009.7	2227.7	2295.1	2208.6	1981.7
55°	1681.0	1750.0	1968.8	1855.8	1813.3	1734.0	1802.9	1856.5	1822.1	1581.6	1066.9
57.5°	1018.0	1094.2	1379.5	1461.5	1471.1	1414.1	1257.7	1074.3	1008.4	805.6	481.0
60°	474.6	493.0	723.9	881.0	1075.0	982.7	795.2	692.7	692.7	608.4	417.6
62.5°	334.3	347.1	475.4	568.4	643.7	634.9	564.3	578.8	607.7	570.0	402.4
65°	314.2	322.2	423.2	451.3	480.1	485.9	476.2	520.3	550.8	545.9	408.0
67.5°	291.8	302.2	386.5	404.9	427.2	437.7	444.9	496.3	528.3	545.9	424.1
70°	265.3	277.3	356.7	382.4	404.0	428.0	436.8	492.2	525.1	542.7	429.7
72.5°	240.4	250.8	317.5	349.5	388.0	416.1	451.3	484.9	507.5	525.9	432.9
75°	216.4	228.4	284.6	321.5	366.4	419.2	461.8	486.6	501.9	516.3	428.9
77.5°	200.4	213.3	257.4	299.9	353.6	426.4	474.6	506.6	515.4	517.9	424.1
80°	185.9	200.4	246.9	291.8	350.2	429.7	489.8	528.3	540.3	545.9	451.3
82.5°	196.4	209.2	249.3	303.8	360.7	428.9	485.9	546.7	560.4	557.0	460.1
85°	222.1	232.5	281.3	332.7	376.7	421.7	471.4	537.8	557.0	573.9	487.4
87.5°	270.1	274.9	310.3	357.5	393.5	408.0	457.7	520.3	537.8	543.6	474.6
90°	295.8	300.7	342.3	381.6	392.7	397.6	408.0	470.5	483.4	505.8	453.7
92.5°	325.5	325.5	368.8	392.0	392.0	372.0	379.2	435.3	457.0	469.8	421.7
95°	354.3	352.8	376.7	390.5	369.6	341.4	353.6	397.6	411.2	424.9	392.0
97.5°	363.2	362.3	376.7	368.8	334.3	307.8	323.1	360.7	375.1	389.5	355.9
100°	353.6	349.5	353.6	335.8	303.8	283.8	292.6	323.8	339.1	351.1	320.6
102.5°	332.7	330.2	331.8	314.2	280.6	256.6	268.6	301.4	312.6	322.2	295.1
105°	323.1	319.1	311.8	286.2	253.3	236.4	246.9	279.7	290.2	309.5	287.0
107.5°	274.9	271.7	266.2	252.6	235.6	222.9	231.7	254.8	261.3	271.0	250.1
110°	237.3	235.6	234.1	230.9	220.4	211.6	216.4	229.2	237.3	244.5	223.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
112.5°	229.2	226.8	225.2	219.6	206.0	196.4	199.7	214.1	218.8	221.3	198.9
115°	218.8	216.4	207.6	199.7	190.0	185.2	185.9	197.9	201.2	202.7	189.3
117.5°	194.0	191.6	185.9	182.7	177.1	174.8	178.8	185.2	185.9	186.8	174.8
120°	179.7	178.8	175.6	170.0	165.9	160.3	166.7	173.2	175.6	178.0	170.0
122.5°	163.5	162.0	158.7	151.5	151.5	148.3	147.5	151.5	152.4	158.7	154.7
125°	144.3	142.7	139.4	133.0	141.0	141.0	135.5	126.7	129.0	134.7	131.4
127.5°	129.0	127.5	124.2	121.0	132.3	136.3	126.7	110.6	112.2	113.8	111.4
130°	126.7	125.0	121.0	115.4	118.7	130.7	113.8	101.0	103.5	105.0	103.5
132.5°	124.2	123.4	117.9	110.6	106.5	117.9	98.6	95.4	97.7	100.3	98.6
135°	116.2	115.4	110.6	100.3	89.0	94.6	78.5	83.4	87.3	90.5	89.0
137.5°	103.5	102.5	98.6	88.2	72.9	68.1	60.1	71.3	74.6	78.5	78.5
140°	83.4	82.6	78.5	68.1	51.4	36.1	38.4	54.4	57.8	62.5	63.3
142.5°	60.9	59.3	55.3	45.8	28.8	12.0	21.6	32.9	36.9	41.7	44.8
145°	41.7	41.0	35.3	27.3	13.7	1.5	9.6	20.0	22.5	25.6	28.8
147.5°	26.5	26.5	22.5	15.2	4.0	1.5	2.4	10.4	12.8	16.0	18.4
150°	16.0	16.0	12.0	4.9	0.8	0.8	0.8	1.5	4.0	7.2	9.6
152.5°	4.0	4.0	2.4	1.5	0.8	0.0	0.8	0.8	0.8	0.8	1.5
155°	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.8	0.8	0.8	0.8
157.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.8	0.8	0.8	0.0	0.8	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4
2.5°	699.8	695.0	688.6	679.7	670.9	662.1	653.3	648.5	646.2	644.5	643.7
5°	757.5	747.1	730.3	707.1	678.2	661.3	649.4	634.9	625.3	622.0	619.7
7.5°	859.4	842.5	808.8	759.2	723.9	674.2	631.7	604.4	584.3	573.2	573.2
10°	995.6	971.5	913.0	844.9	754.3	666.9	601.2	551.5	528.3	518.6	516.3
12.5°	1055.8	1032.5	963.5	884.2	788.1	686.1	602.9	543.6	515.4	504.2	505.8
15°	1025.2	993.3	933.9	859.4	784.0	719.8	650.2	576.4	528.3	515.4	519.5
17.5°	994.9	961.9	898.7	816.1	742.3	699.8	650.9	601.2	555.5	537.0	534.0
20°	1083.8	1059.8	974.0	880.2	769.6	662.1	627.6	605.3	589.9	590.8	583.5
22.5°	1168.8	1135.8	1057.3	947.5	828.1	734.4	678.2	648.5	631.7	639.0	639.8
25°	1225.6	1200.9	1084.7	953.1	853.7	784.0	703.1	661.3	633.2	633.2	630.2
27.5°	1515.1	1453.4	1268.9	1067.7	919.4	804.1	706.2	658.2	622.9	612.5	614.0
30°	1666.5	1605.7	1394.9	1150.3	994.9	852.1	715.1	640.5	631.7	624.5	626.8
32.5°	1796.5	1706.7	1457.4	1172.0	981.2	859.4	734.4	644.5	602.0	594.8	598.0
35°	1860.6	1760.4	1507.0	1191.2	987.5	828.9	711.1	627.6	600.4	593.2	595.7
37.5°	2156.4	2006.5	1585.6	1220.1	986.0	788.8	679.7	612.5	561.9	540.3	540.3
40°	2496.3	2275.9	1722.7	1218.6	925.1	754.3	645.3	582.8	542.7	525.9	525.1
42.5°	2320.0	2109.8	1642.6	1182.3	865.7	691.9	626.1	570.0	526.6	515.4	513.0
45°	2393.7	2169.2	1584.8	1081.4	776.8	642.1	580.3	541.0	491.5	465.7	465.0
47.5°	2159.5	1979.2	1467.0	953.1	699.8	564.3	525.9	500.3	468.9	447.4	444.9
50°	1873.4	1691.5	1234.5	844.9	596.5	500.3	473.8	460.9	429.7	404.9	406.5
52.5°	1790.1	1569.6	1075.8	737.5	513.0	436.0	423.2	408.8	377.6	348.7	352.0
55°	887.4	735.2	654.1	573.2	430.5	379.2	373.5	364.7	333.5	308.7	309.5
57.5°	413.6	356.7	312.6	332.7	324.6	329.5	327.1	321.5	291.8	256.6	254.1
60°	370.3	317.5	265.3	251.7	266.9	287.7	286.2	268.6	230.9	189.3	184.4
62.5°	357.5	303.8	257.4	237.3	243.7	257.4	247.8	225.2	194.8	156.3	155.5
65°	364.0	307.0	256.6	231.7	236.4	242.2	228.4	212.4	194.0	167.5	167.5
67.5°	377.6	319.1	262.1	229.2	231.7	237.3	224.4	213.3	203.6	185.9	185.9
70°	381.6	324.6	265.3	230.1	227.7	232.5	223.7	213.3	207.6	193.1	192.3
72.5°	383.1	327.9	263.7	226.1	220.4	224.4	218.1	213.3	210.8	199.7	197.9
75°	376.0	324.6	255.7	217.2	211.6	213.3	211.6	210.8	214.1	206.8	204.5
77.5°	367.1	319.8	249.3	207.6	201.2	201.9	200.4	202.7	206.0	201.2	197.2
80°	385.6	333.5	250.1	200.4	188.4	184.4	185.2	187.6	191.6	181.2	175.6
82.5°	392.0	334.3	238.9	184.4	169.2	163.5	165.2	171.5	174.8	165.2	159.4
85°	416.1	349.5	230.9	170.0	152.4	146.8	148.3	152.4	150.7	139.4	134.7
87.5°	406.5	339.1	216.4	153.2	138.7	133.8	134.7	136.3	130.7	116.2	112.2
90°	392.7	327.1	200.4	134.7	122.7	121.0	119.5	117.0	107.3	92.2	88.2
92.5°	367.9	305.5	185.9	121.8	109.1	108.2	105.8	101.0	92.2	77.0	72.9
95°	347.1	286.2	172.4	111.4	97.7	94.6	94.6	89.8	80.2	67.4	65.8
97.5°	312.6	260.5	158.7	102.5	87.3	84.3	83.4	80.2	72.9	63.3	62.5
100°	283.0	235.6	144.3	93.0	78.5	75.4	73.8	72.1	66.6	60.9	60.9
102.5°	262.1	218.1	134.7	85.0	70.5	67.4	67.4	65.8	62.5	58.5	58.5
105°	256.6	214.1	130.7	77.8	62.5	60.9	61.8	61.8	59.3	57.0	57.0
107.5°	222.9	184.4	112.2	68.9	57.0	55.3	56.1	57.0	56.1	55.3	55.3
110°	198.9	167.5	104.3	64.9	53.7	51.4	51.4	51.4	51.4	52.1	52.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	178.0	149.1	95.4	61.8	50.6	48.1	47.3	46.5	45.8	48.9	48.9
115°	170.0	145.0	93.0	60.1	48.1	45.8	43.3	41.7	40.1	42.5	43.3
117.5°	157.9	136.3	90.5	60.1	47.3	43.3	41.0	38.4	36.1	38.4	38.4
120°	154.7	135.5	92.2	60.9	45.8	40.1	37.6	34.5	32.9	35.3	36.1
122.5°	142.7	126.7	87.3	57.8	44.0	38.4	36.1	29.6	29.6	31.4	32.1
125°	121.0	107.3	75.4	52.1	41.7	38.4	35.3	26.5	27.3	28.8	28.8
127.5°	103.5	93.0	68.9	50.6	42.5	39.3	32.9	24.9	26.5	28.8	28.8
130°	97.7	89.0	69.8	52.9	44.0	40.1	27.3	21.6	25.6	28.0	28.0
132.5°	93.9	86.5	69.8	55.3	45.8	36.9	21.6	19.3	21.6	23.3	23.3
135°	85.0	80.2	66.6	52.9	41.7	28.8	17.6	16.9	20.0	21.6	21.6
137.5°	76.1	71.3	60.9	48.9	36.9	23.3	12.8	15.2	16.9	18.4	18.4
140°	62.5	59.3	50.6	40.1	27.3	12.8	9.6	12.0	14.5	16.0	16.0
142.5°	44.0	42.5	35.3	25.6	15.2	4.9	6.4	8.9	10.4	12.0	12.0
145°	28.8	27.3	22.5	16.0	6.4	1.5	4.0	5.6	8.1	8.9	8.9
147.5°	18.4	17.6	13.7	8.1	2.4	1.5	1.5	4.0	6.4	7.2	7.2
150°	8.9	8.1	5.6	2.4	1.5	0.8	0.8	1.5	4.0	4.9	4.9
152.5°	1.5	1.5	1.5	0.8	0.8	0.0	0.0	0.8	0.8	1.5	1.5
155°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.8	0.8	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)