

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: P266549

Luminaire Tested: **UTLD-AF24-100-D-U-T3-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266549
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-AF24-100-D-U-T3-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1200mA 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: 6380.6 lumens
Efficiency: N/A
Efficacy: 66.5 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 - U4 - G3

Input Watts (W): 96
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

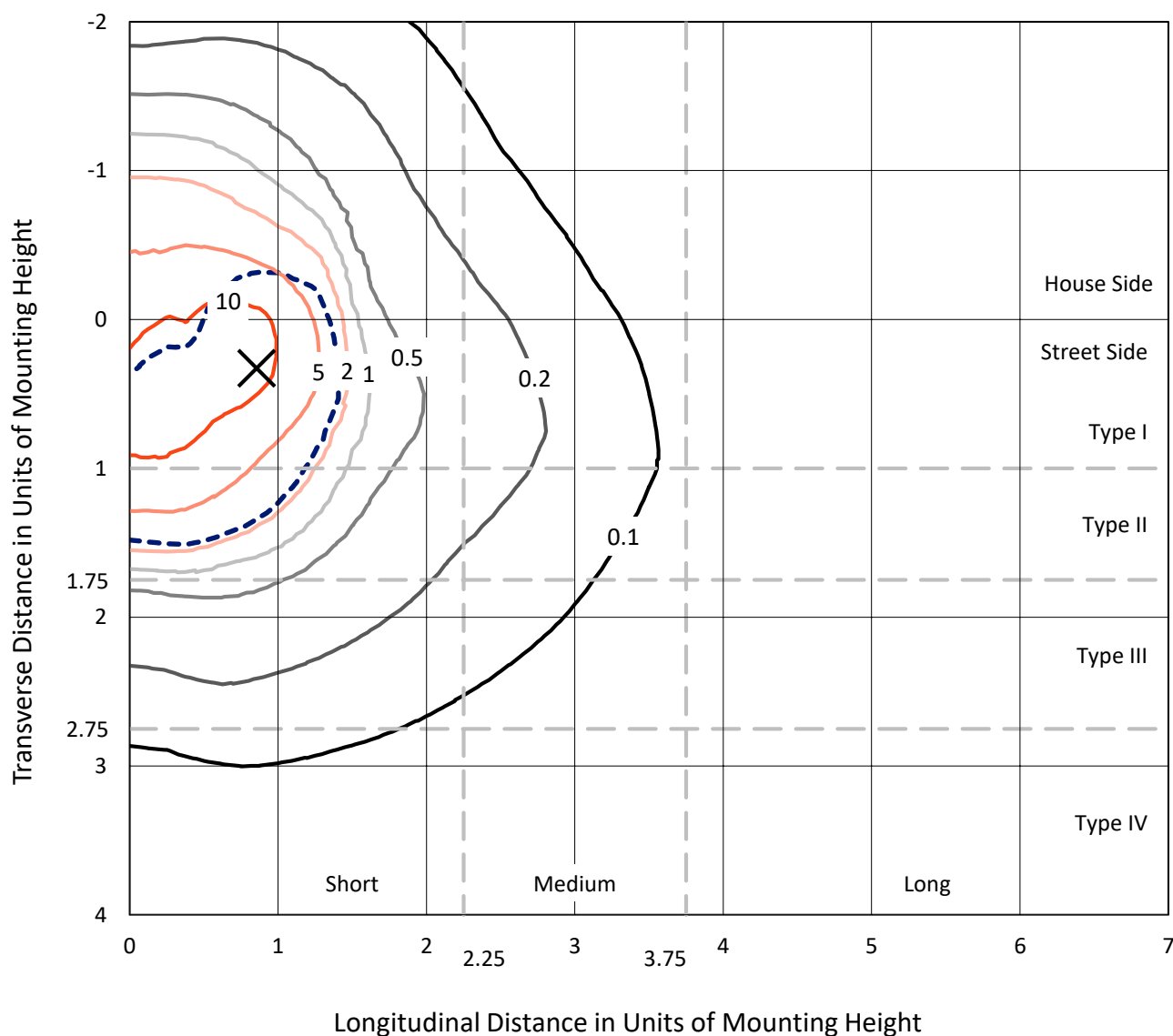


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

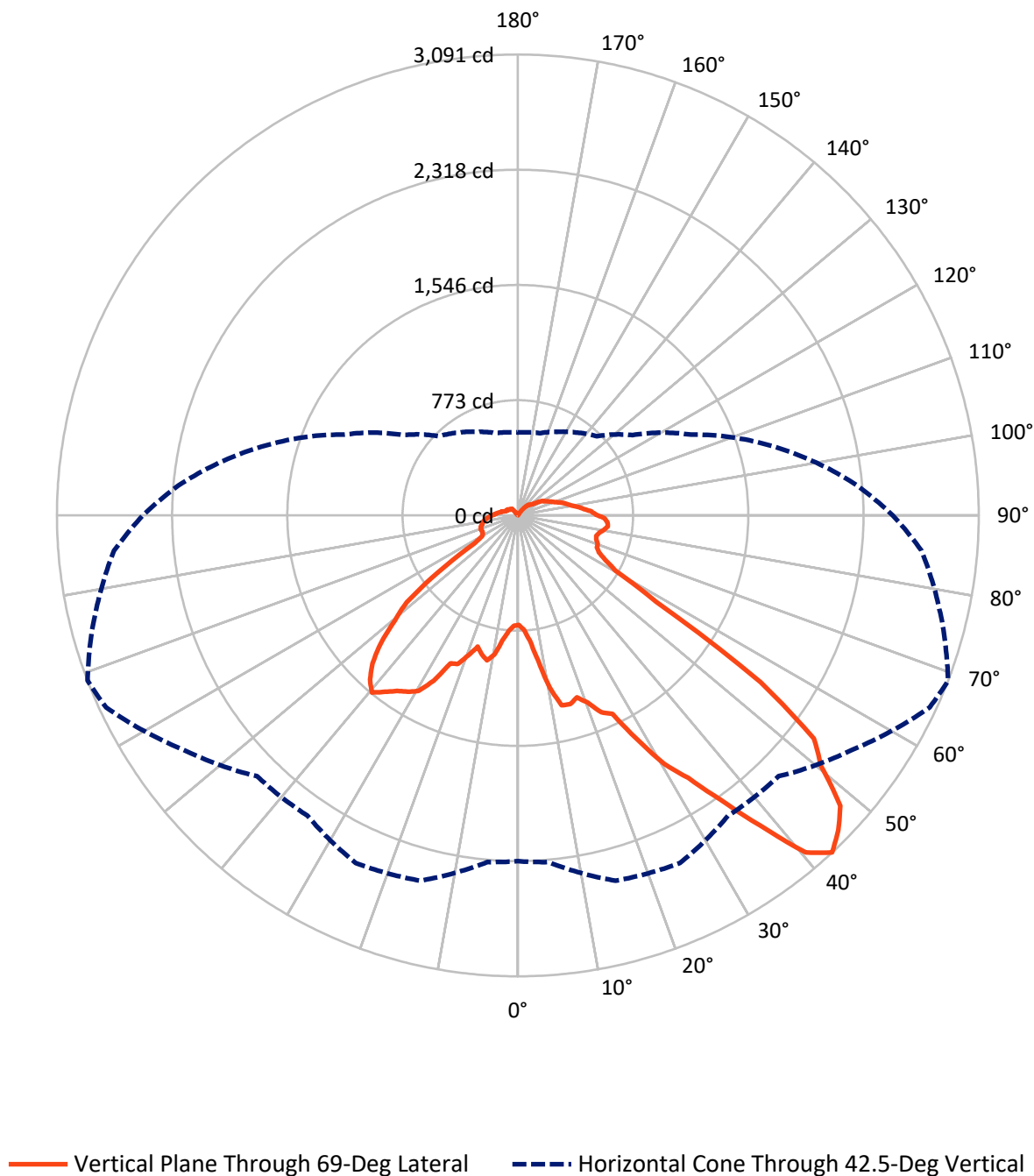


Based on 10 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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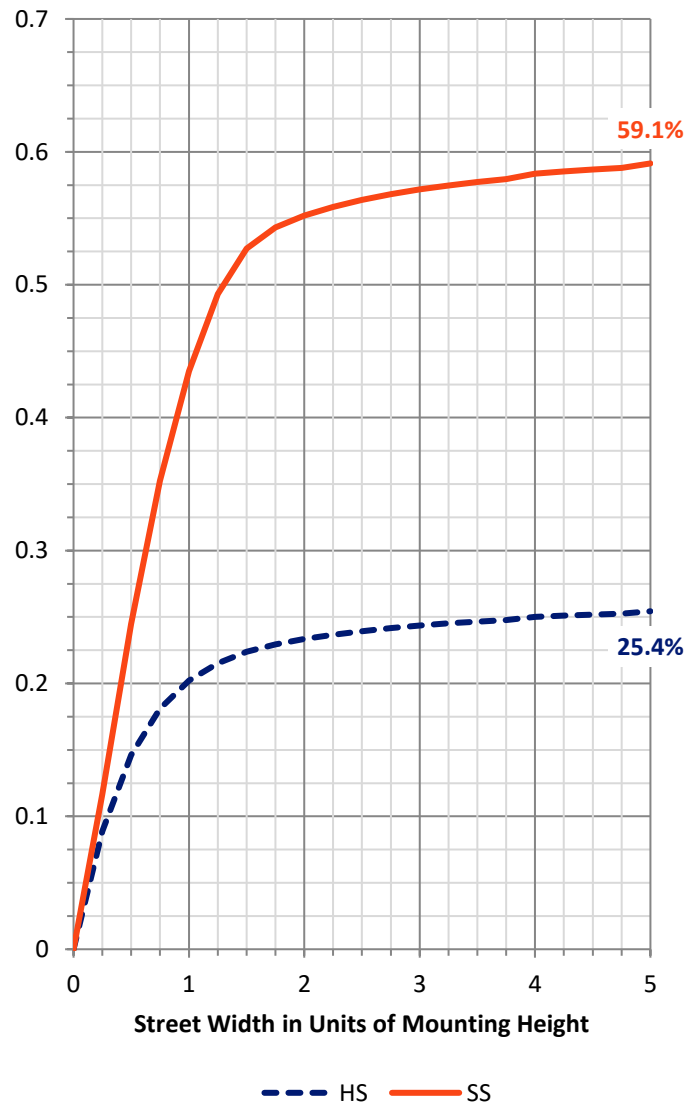
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1681.2	202.6	1883.8
	% Fixture	26.3	3.2	29.5
Street Side	Lumens	3895.7	601.1	4496.8
	% Fixture	61.1	9.4	70.5
Total	Lumens	5576.9	803.7	6380.6
	% Fixture	87.4	12.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	1.3
10°-20°	306.9	4.8
20°-30°	627.8	9.8
30°-40°	1055.9	16.5
40°-50°	1397.8	21.9
50°-60°	1008.0	15.8
60°-70°	395.9	6.2
70°-80°	356.8	5.6
80°-90°	347.7	5.4
90°-100°	293.3	4.6
100°-110°	208.5	3.3
110°-120°	140.5	2.2
120°-130°	91.9	1.4
130°-140°	55.0	0.9
140°-150°	13.9	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5576.9	87.4
0°-180°	6380.6	100.0

Coefficient of Utilization



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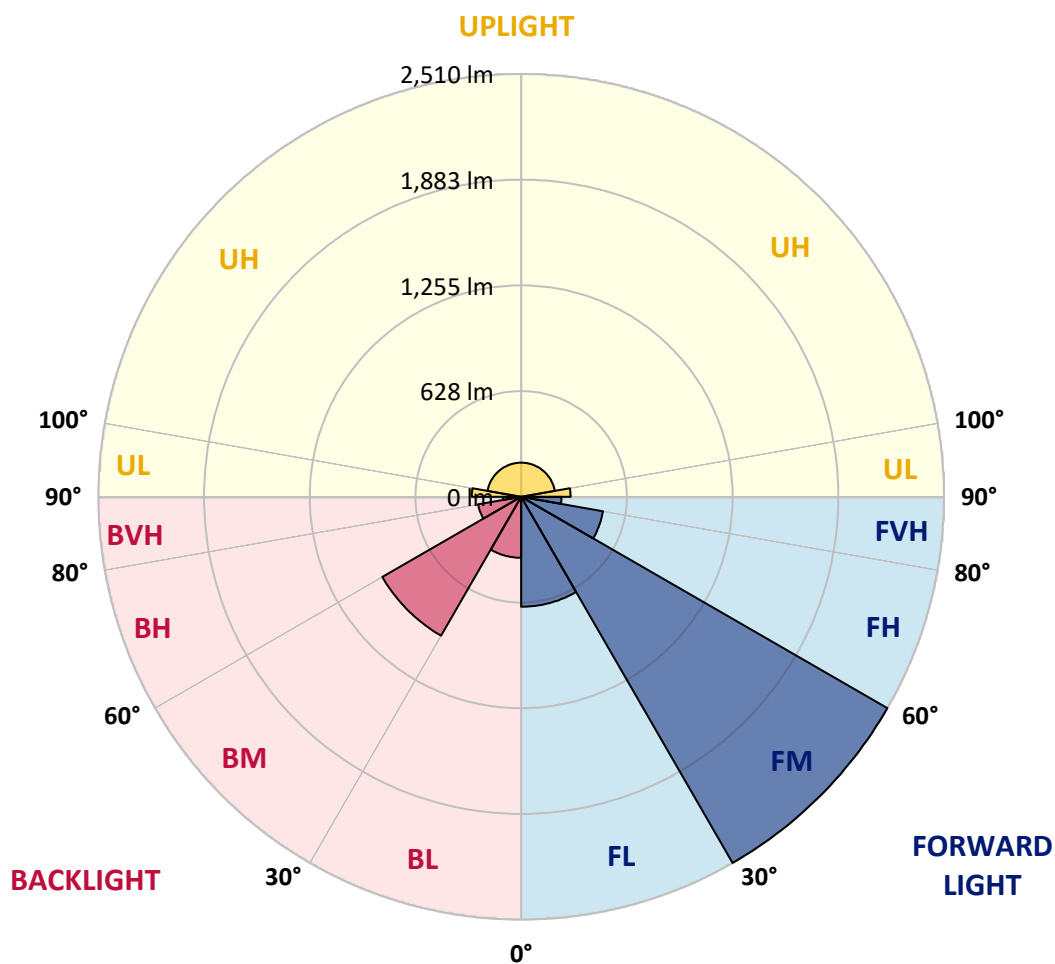
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	652.6	10.2			
FM	(30°-60°)	2510.1	39.3			
FH	(60°-80°)	493.4	7.7			G0/660
FVH	(80°-90°)	239.6	3.8			G3/500
BL	(0°-30°)	362.1	5.7	B1/500		
BM	(30°-60°)	951.6	14.9	B1/1000		
BH	(60°-80°)	259.3	4.1	B1/500		G1/500
BVH	(80°-90°)	108.1	1.7			G2/225
UL	(90°-100°)	293.3	4.6		U3/500	
UH	(100°-180°)	202.6	3.2		U3/500	

BUG Rating: B1-U4-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	734.2	734.2	734.2	734.2	734.2	734.2	734.2	734.2	734.2	734.2	734.2
2.5°	782.0	777.7	775.9	775.9	773.4	772.5	774.2	771.6	767.2	766.3	761.1
5°	836.7	835.0	834.0	841.1	847.1	848.9	847.1	847.1	841.9	841.9	825.5
7.5°	924.4	921.9	928.8	946.2	952.3	970.4	992.3	979.2	982.7	973.1	941.9
10°	1026.1	1021.8	1053.9	1077.3	1131.2	1153.9	1181.6	1179.0	1173.8	1157.3	1105.2
12.5°	1118.2	1115.7	1157.3	1242.4	1314.6	1387.6	1393.6	1333.8	1306.8	1247.7	1182.4
15°	1233.0	1235.4	1298.9	1419.7	1526.6	1556.1	1482.3	1364.0	1313.7	1252.9	1156.5
17.5°	1418.0	1426.7	1534.5	1671.7	1742.9	1623.9	1465.8	1330.2	1282.4	1216.5	1123.4
20°	1525.7	1530.9	1678.7	1864.6	1885.5	1692.5	1528.3	1382.3	1340.6	1288.4	1212.1
22.5°	1590.0	1609.1	1778.6	2006.3	1994.1	1852.5	1624.8	1486.7	1434.6	1363.3	1300.7
25°	1693.5	1707.3	1869.8	2089.5	2035.6	1904.5	1710.8	1526.6	1475.3	1423.2	1360.7
27.5°	1833.4	1846.3	2028.8	2155.7	2099.2	1974.0	1839.4	1721.2	1694.3	1685.6	1658.6
30°	1908.0	1916.8	2121.7	2228.7	2132.1	2073.9	2036.5	1941.9	1934.1	1916.8	1855.0
32.5°	1950.6	1983.5	2221.7	2283.3	2157.4	2150.5	2173.0	2114.8	2099.2	2069.7	1998.4
35°	1988.8	2005.3	2229.6	2323.3	2198.2	2194.7	2350.2	2377.3	2342.4	2281.7	2111.3
37.5°	2283.3	2291.1	2444.9	2411.9	2252.1	2271.3	2527.6	2667.3	2636.2	2560.4	2443.2
40°	2443.2	2457.1	2599.7	2531.0	2365.9	2387.7	2655.2	2945.5	2973.2	2970.7	2868.1
42.5°	2319.0	2333.7	2536.3	2572.7	2458.9	2473.7	2738.7	3047.1	3091.3	2955.0	2718.7
45°	2723.9	2735.2	2849.0	2582.3	2395.4	2452.0	2673.4	2973.2	3013.3	2973.2	2770.8
47.5°	2723.0	2709.1	2803.8	2609.1	2391.1	2352.9	2531.9	2831.5	2910.7	2819.4	2599.7
50°	2393.8	2392.8	2626.6	2514.4	2344.1	2255.6	2376.3	2613.4	2632.7	2525.8	2231.2
52.5°	2090.4	2088.6	2358.9	2301.5	2190.3	2103.6	2178.2	2414.6	2487.5	2393.8	2147.8
55°	1822.0	1896.7	2134.0	2011.5	1965.3	1879.3	1954.1	2012.3	1975.0	1714.2	1156.5
57.5°	1103.5	1186.0	1495.3	1583.9	1594.3	1532.7	1363.3	1164.3	1093.0	873.2	521.3
60°	514.4	534.3	784.6	954.9	1165.1	1065.2	862.0	750.8	750.8	659.4	452.7
62.5°	362.3	376.2	515.3	616.0	697.8	688.1	611.7	627.3	658.5	617.8	436.1
65°	340.5	349.4	458.8	489.1	520.5	526.5	516.0	563.9	597.0	591.8	442.2
67.5°	316.3	327.5	418.8	438.8	463.0	474.3	482.2	537.8	572.6	591.8	459.7
70°	287.5	300.7	386.6	414.5	438.0	464.0	473.5	533.5	569.0	588.2	465.7
72.5°	260.7	271.9	344.1	378.8	420.5	450.9	489.1	525.7	550.0	570.0	469.2
75°	234.5	247.7	308.5	348.5	397.1	454.5	500.4	527.3	544.0	559.6	464.9
77.5°	217.2	231.1	279.0	324.9	383.1	462.3	514.4	549.1	558.7	561.4	459.7
80°	201.6	217.2	267.6	316.3	379.8	465.7	530.9	572.6	585.6	591.8	489.1
82.5°	212.9	226.8	270.2	329.3	391.0	464.9	526.5	592.5	607.3	603.9	498.6
85°	240.7	252.0	305.0	360.6	408.4	457.0	510.9	583.0	603.9	622.0	528.3
87.5°	292.8	298.0	336.2	387.4	426.6	442.2	496.1	563.9	583.0	589.1	514.4
90°	320.6	325.8	371.0	413.6	425.7	430.9	442.2	510.0	523.9	548.2	491.8
92.5°	352.8	352.8	399.7	424.9	424.9	403.2	411.0	471.8	495.2	509.2	457.0
95°	384.0	382.3	408.4	423.1	400.6	370.1	383.1	430.9	445.6	460.6	424.9
97.5°	393.5	392.6	408.4	399.7	362.3	333.6	350.2	391.0	406.7	422.3	385.8
100°	383.1	378.8	383.1	364.1	329.3	307.6	317.1	351.0	367.5	380.5	347.6
102.5°	360.6	358.0	359.7	340.5	304.0	278.0	291.1	326.8	338.8	349.4	319.7
105°	350.2	345.8	338.0	310.2	274.5	256.2	267.6	303.3	314.5	335.3	311.1
107.5°	298.0	294.6	288.4	273.8	255.5	241.6	251.0	276.3	283.2	293.7	271.1
110°	257.2	255.5	253.7	250.3	238.9	229.3	234.5	248.6	257.2	265.0	242.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
112.5°	248.6	245.9	244.2	238.1	223.3	212.9	216.3	232.0	237.2	239.8	215.5
115°	237.2	234.5	225.0	216.3	205.9	200.7	201.6	214.7	218.1	219.8	205.1
117.5°	210.3	207.7	201.6	198.0	192.0	189.5	193.8	200.7	201.6	202.5	189.5
120°	194.7	193.8	190.4	184.2	179.8	173.8	180.6	187.7	190.4	192.9	184.2
122.5°	177.2	175.4	172.0	164.2	164.2	160.7	159.9	164.2	165.1	172.0	167.8
125°	156.3	154.7	151.2	144.3	152.9	152.9	146.9	137.4	139.9	146.0	142.6
127.5°	139.9	138.2	134.7	131.2	143.4	147.7	137.4	120.0	121.6	123.3	120.8
130°	137.4	135.6	131.2	125.1	128.5	141.7	123.3	109.5	112.1	113.8	112.1
132.5°	134.7	133.8	127.6	120.0	115.5	127.6	106.9	103.3	106.0	108.7	106.9
135°	126.0	125.1	120.0	108.7	96.5	102.5	85.2	90.4	94.7	98.2	96.5
137.5°	112.1	111.2	106.9	95.6	79.1	73.8	65.1	77.3	80.8	85.2	85.2
140°	90.4	89.6	85.2	73.8	55.7	39.0	41.7	59.1	62.5	67.7	68.6
142.5°	66.0	64.3	59.9	49.5	31.4	13.0	23.4	35.7	40.0	45.2	48.7
145°	45.2	44.2	38.3	29.6	14.7	1.7	10.4	21.6	24.3	27.8	31.4
147.5°	28.7	28.7	24.3	16.4	4.3	1.7	2.6	11.3	14.0	17.3	20.0
150°	17.3	17.3	13.0	5.2	0.9	0.9	0.9	1.7	4.3	7.8	10.4
152.5°	4.3	4.3	2.6	1.7	0.9	0.0	0.9	0.9	0.9	0.9	1.7
155°	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.9	0.9	0.9	0.9
157.5°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.9	0.9	0.9	0.0	0.9	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°	734.2	734.2	734.2	734.2	734.2	734.2	734.2	734.2	734.2	734.2	734.2
2.5°	758.4	753.3	746.3	736.8	727.3	717.7	708.1	703.0	700.3	698.5	697.8
5°	821.1	809.8	791.5	766.3	735.1	716.8	703.8	688.1	677.7	674.3	671.7
7.5°	931.5	913.1	876.7	822.8	784.6	730.7	684.7	655.1	633.3	621.3	621.3
10°	1079.1	1053.1	989.7	915.8	817.5	722.9	651.6	597.8	572.6	562.2	559.6
12.5°	1144.4	1119.1	1044.4	958.3	854.1	743.7	653.3	589.1	558.7	546.4	548.2
15°	1111.3	1076.4	1012.2	931.5	849.7	780.3	704.6	624.7	572.6	558.7	563.0
17.5°	1078.2	1042.7	974.0	884.6	804.5	758.4	705.4	651.6	602.1	582.1	578.7
20°	1174.8	1148.7	1055.7	954.0	834.0	717.7	680.3	656.0	639.5	640.3	632.5
22.5°	1266.8	1231.1	1146.0	1027.0	897.5	795.9	735.1	703.0	684.7	692.5	693.3
25°	1328.6	1301.6	1175.5	1033.1	925.3	849.7	762.0	716.8	686.5	686.5	682.9
27.5°	1642.1	1575.3	1375.5	1157.3	996.6	871.4	765.4	713.3	675.0	663.8	665.6
30°	1806.3	1740.3	1511.8	1246.8	1078.2	923.5	775.0	694.2	684.7	676.9	679.5
32.5°	1947.2	1849.8	1579.6	1270.3	1063.6	931.5	795.9	698.5	652.4	644.8	648.1
35°	2016.7	1908.0	1633.5	1291.1	1070.4	898.5	770.7	680.3	650.8	642.9	645.5
37.5°	2337.2	2174.7	1718.5	1322.5	1068.8	854.9	736.8	663.8	609.1	585.6	585.6
40°	2705.7	2466.7	1867.1	1320.7	1002.7	817.5	699.4	631.7	588.2	570.0	569.0
42.5°	2514.4	2286.8	1780.4	1281.5	938.4	749.8	678.6	617.8	570.9	558.7	556.1
45°	2594.5	2351.1	1717.6	1172.1	841.9	695.9	629.1	586.5	532.6	504.8	503.9
47.5°	2340.8	2145.2	1590.0	1033.1	758.4	611.7	570.0	542.1	508.4	484.8	482.2
50°	2030.4	1833.4	1338.0	915.8	646.4	542.1	513.6	499.5	465.7	438.8	440.4
52.5°	1940.2	1701.2	1166.0	799.3	556.1	472.7	458.8	443.1	409.3	377.9	381.4
55°	961.8	796.7	709.0	621.3	466.6	411.0	404.9	395.3	361.5	334.4	335.3
57.5°	448.3	386.6	338.8	360.6	351.9	357.0	354.6	348.5	316.3	278.0	275.4
60°	401.5	344.1	287.5	272.8	289.3	311.9	310.2	291.1	250.3	205.1	199.9
62.5°	387.4	329.3	279.0	257.2	264.1	279.0	268.5	244.2	211.1	169.4	168.5
65°	394.4	332.8	278.0	251.0	256.2	262.3	247.7	230.2	210.3	181.5	181.5
67.5°	409.3	345.8	284.1	248.6	251.0	257.2	243.4	231.1	220.8	201.6	201.6
70°	413.6	351.9	287.5	249.4	246.8	252.0	242.5	231.1	225.0	209.3	208.5
72.5°	415.3	355.4	285.8	245.0	238.9	243.4	236.3	231.1	228.4	216.3	214.7
75°	407.6	351.9	277.1	235.4	229.3	231.1	229.3	228.4	232.0	224.1	221.5
77.5°	397.9	346.7	270.2	225.0	218.1	218.9	217.2	219.8	223.3	218.1	213.7
80°	417.9	361.5	271.1	217.2	204.2	199.9	200.7	203.2	207.7	196.4	190.4
82.5°	424.9	362.3	258.9	199.9	183.3	177.2	179.0	185.9	189.5	179.0	173.0
85°	450.9	378.8	250.3	184.2	165.1	159.0	160.7	165.1	163.3	151.2	146.0
87.5°	440.4	367.5	234.5	165.9	150.2	145.0	146.0	147.7	141.7	126.0	121.6
90°	425.7	354.6	217.2	146.0	132.9	131.2	129.4	126.8	116.4	99.9	95.6
92.5°	398.8	331.0	201.6	132.1	118.1	117.3	114.8	109.5	99.9	83.5	79.1
95°	376.2	310.2	186.8	120.8	106.0	102.5	102.5	97.2	86.9	73.0	71.2
97.5°	338.8	282.3	172.0	111.2	94.7	91.3	90.4	86.9	79.1	68.6	67.7
100°	306.7	255.5	156.3	100.8	85.2	81.7	79.9	78.2	72.1	66.0	66.0
102.5°	284.1	236.3	146.0	92.0	76.4	73.0	73.0	71.2	67.7	63.4	63.4
105°	278.0	232.0	141.7	84.4	67.7	66.0	67.0	67.0	64.3	61.8	61.8
107.5°	241.6	199.9	121.6	74.6	61.8	59.9	60.8	61.8	60.8	59.9	59.9
110°	215.5	181.5	112.9	70.3	58.2	55.7	55.7	55.7	55.7	56.5	57.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	192.9	161.7	103.3	67.0	54.7	52.1	51.3	50.3	49.5	53.0	53.0
115°	184.2	157.3	100.8	65.1	52.1	49.5	46.9	45.2	43.5	46.1	46.9
117.5°	171.1	147.7	98.2	65.1	51.3	46.9	44.2	41.7	39.0	41.7	41.7
120°	167.8	146.9	99.9	66.0	49.5	43.5	40.9	37.4	35.7	38.3	39.0
122.5°	154.7	137.4	94.7	62.5	47.8	41.7	39.0	32.2	32.2	33.9	34.8
125°	131.2	116.4	81.7	56.5	45.2	41.7	38.3	28.7	29.6	31.4	31.4
127.5°	112.1	100.8	74.6	54.7	46.1	42.6	35.7	26.9	28.7	31.4	31.4
130°	106.0	96.5	75.5	57.3	47.8	43.5	29.6	23.4	27.8	30.5	30.5
132.5°	101.7	93.9	75.5	59.9	49.5	40.0	23.4	20.8	23.4	25.2	25.2
135°	92.0	86.9	72.1	57.3	45.2	31.4	19.1	18.2	21.6	23.4	23.4
137.5°	82.6	77.3	66.0	53.0	40.0	25.2	14.0	16.4	18.2	20.0	20.0
140°	67.7	64.3	54.7	43.5	29.6	14.0	10.4	13.0	15.6	17.3	17.3
142.5°	47.8	46.1	38.3	27.8	16.4	5.2	6.9	9.5	11.3	13.0	13.0
145°	31.4	29.6	24.3	17.3	6.9	1.7	4.3	6.1	8.8	9.5	9.5
147.5°	20.0	19.1	14.7	8.8	2.6	1.7	1.7	4.3	6.9	7.8	7.8
150°	9.5	8.8	6.1	2.6	1.7	0.9	0.9	1.7	4.3	5.2	5.2
152.5°	1.7	1.7	1.7	0.9	0.9	0.0	0.0	0.9	0.9	1.7	1.7
155°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.9	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	0.9	0.9	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)