

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: P239882

Luminaire Tested: **UTLD-AF24-90-D-U-T3-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-15)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-90-D-U-T3-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1180mA 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: 6487.1 lumens
Efficiency: N/A
Efficacy: 69.0 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): 94
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

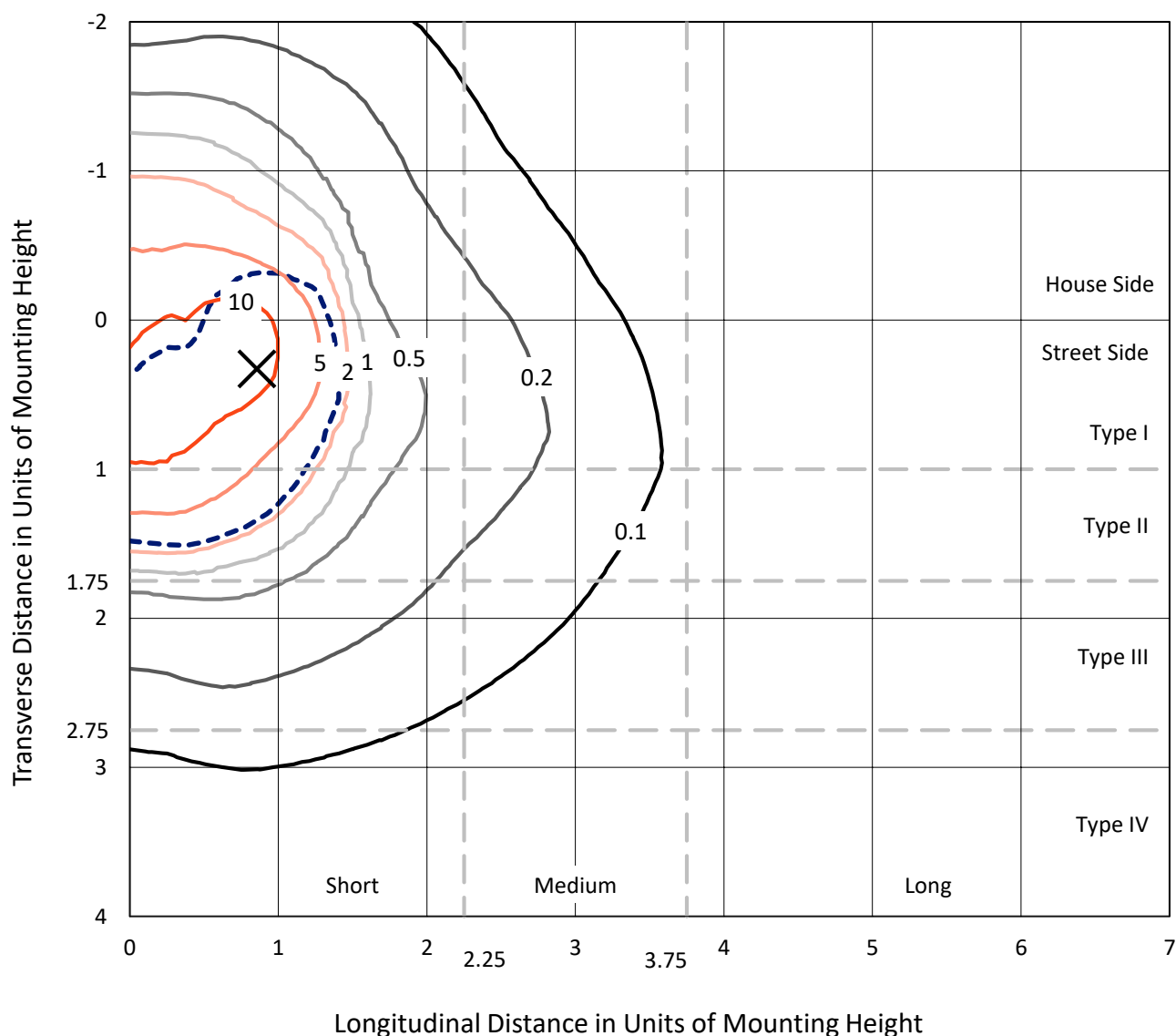


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

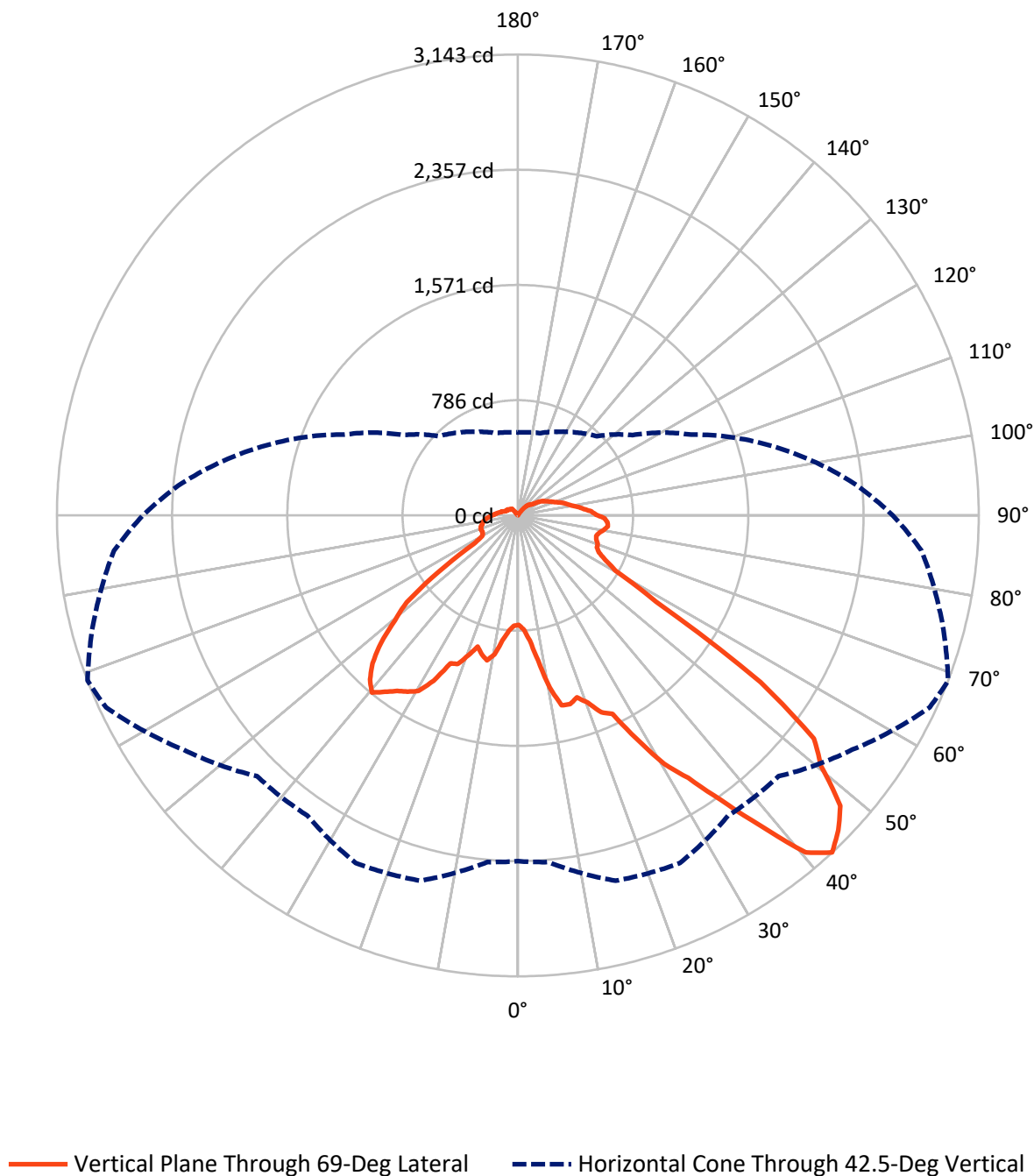


Based on 10 foot mounting height. Maximum calculated value = 15.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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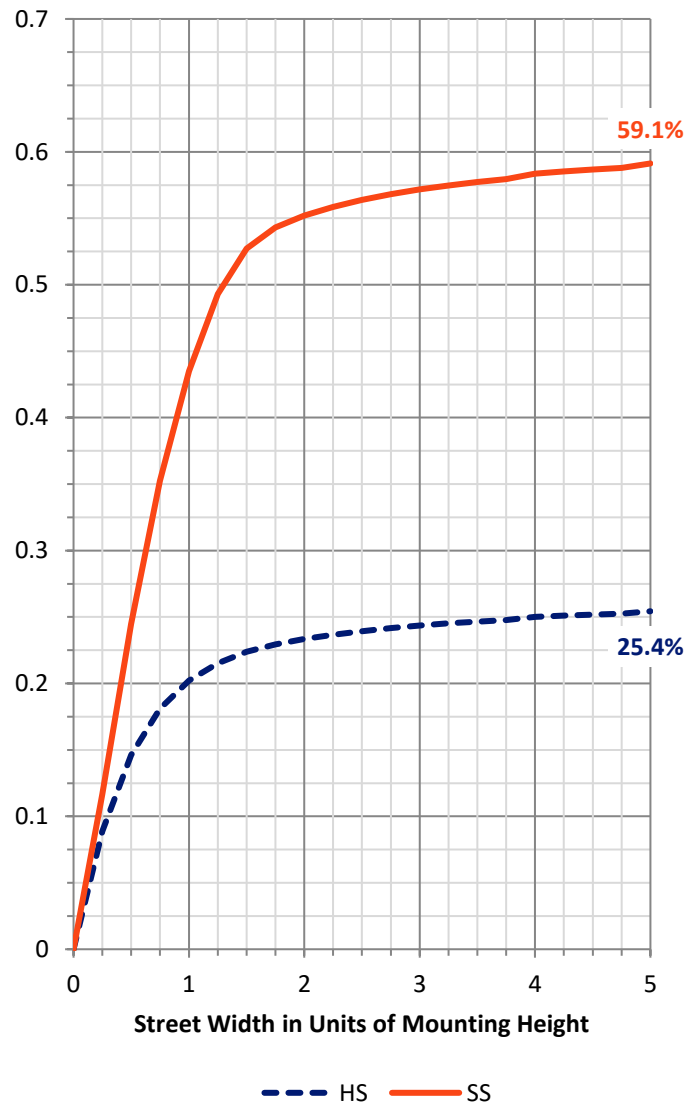
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1709.2	206.0	1915.2
	% Fixture	26.3	3.2	29.5
Street Side	Lumens	3960.7	611.1	4571.8
	% Fixture	61.1	9.4	70.5
Total	Lumens	5669.9	817.2	6487.1
	% Fixture	87.4	12.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	1.3
10°-20°	312.0	4.8
20°-30°	638.3	9.8
30°-40°	1073.5	16.5
40°-50°	1421.1	21.9
50°-60°	1024.8	15.8
60°-70°	402.6	6.2
70°-80°	362.7	5.6
80°-90°	353.5	5.4
90°-100°	298.2	4.6
100°-110°	212.0	3.3
110°-120°	142.9	2.2
120°-130°	93.5	1.4
130°-140°	55.9	0.9
140°-150°	14.2	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5669.9	87.4
0°-180°	6487.1	100.0

Coefficient of Utilization



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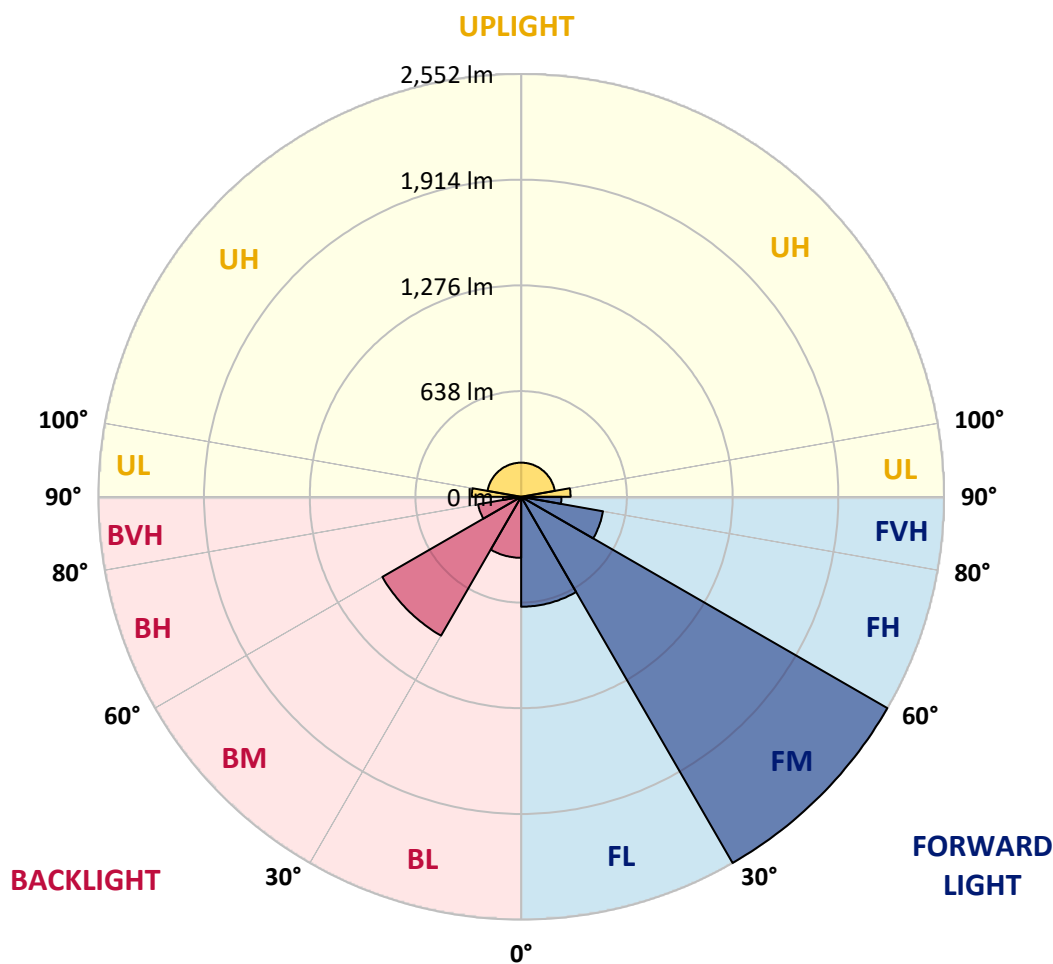
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	663.5	10.2			
FM	(30°-60°)	2552.0	39.3			
FH	(60°-80°)	501.6	7.7			G0/660
FVH	(80°-90°)	243.6	3.8			G3/500
BL	(0°-30°)	368.1	5.7	B1/500		
BM	(30°-60°)	967.5	14.9	B1/1000		
BH	(60°-80°)	263.7	4.1	B1/500		G1/500
BVH	(80°-90°)	109.9	1.7			G2/225
UL	(90°-100°)	298.2	4.6		U3/500	
UH	(100°-180°)	206.0	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°	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4
2.5°	795.0	790.6	788.8	788.8	786.2	785.3	787.1	784.4	780.0	779.1	773.8
5°	850.7	848.9	848.0	855.1	861.3	863.0	861.3	861.3	856.0	856.0	839.2
7.5°	939.9	937.2	944.3	962.0	968.1	986.7	1008.8	995.5	999.1	989.3	957.5
10°	1043.2	1038.8	1071.5	1095.4	1150.1	1173.1	1201.4	1198.7	1193.4	1176.6	1123.6
12.5°	1136.9	1134.2	1176.6	1263.2	1336.5	1410.7	1416.9	1355.9	1328.6	1268.5	1202.2
15°	1253.5	1256.1	1320.6	1443.4	1552.0	1582.1	1507.0	1386.9	1335.6	1273.8	1175.7
17.5°	1441.6	1450.5	1560.0	1699.6	1772.0	1651.0	1490.2	1352.4	1303.8	1236.7	1142.2
20°	1551.2	1556.5	1706.6	1895.7	1916.9	1720.8	1553.8	1405.4	1363.0	1310.0	1232.3
22.5°	1616.5	1636.0	1808.2	2039.6	2027.3	1883.3	1651.9	1511.4	1458.4	1386.0	1322.4
25°	1721.6	1735.8	1901.0	2124.5	2069.7	1936.3	1739.3	1552.0	1499.9	1446.9	1383.3
27.5°	1863.9	1877.1	2062.6	2191.6	2134.2	2007.0	1870.0	1749.9	1722.5	1713.7	1686.3
30°	1939.8	1948.7	2157.1	2265.8	2167.7	2108.5	2070.6	1974.3	1966.3	1948.7	1885.9
32.5°	1983.1	2016.7	2258.7	2321.4	2193.4	2186.3	2209.3	2150.1	2134.2	2104.1	2031.7
35°	2022.0	2038.8	2266.7	2362.1	2234.9	2231.3	2389.5	2416.8	2381.5	2319.7	2146.5
37.5°	2321.4	2329.4	2485.7	2452.2	2289.6	2309.1	2569.7	2711.9	2680.1	2603.2	2484.0
40°	2484.0	2498.1	2643.0	2573.2	2405.4	2427.4	2699.5	2994.5	3022.8	3020.2	2915.9
42.5°	2357.7	2372.7	2578.5	2615.6	2499.9	2514.9	2784.3	3097.9	3142.9	3004.3	2764.0
45°	2769.3	2780.8	2896.5	2625.3	2435.4	2492.8	2718.1	3022.8	3063.4	3022.8	2817.0
47.5°	2768.4	2754.3	2850.6	2652.7	2431.0	2392.1	2574.1	2878.8	2959.2	2866.5	2643.0
50°	2433.6	2432.7	2670.4	2556.4	2383.3	2293.2	2416.0	2657.1	2676.5	2567.9	2268.4
52.5°	2125.3	2123.6	2398.3	2340.0	2226.9	2138.6	2214.6	2454.8	2529.0	2433.6	2183.6
55°	1852.4	1928.3	2169.5	2044.9	1998.1	1910.7	1986.6	2045.8	2007.8	1742.8	1175.7
57.5°	1121.9	1205.8	1520.2	1610.3	1620.9	1558.2	1386.0	1183.7	1111.3	887.8	530.0
60°	522.9	543.3	797.7	970.8	1184.6	1083.0	876.3	763.2	763.2	670.5	460.2
62.5°	368.4	382.5	523.8	626.3	709.3	699.6	621.9	637.8	669.6	628.1	443.4
65°	346.3	355.1	466.4	497.3	529.1	535.3	524.7	573.3	606.9	601.6	449.6
67.5°	321.5	333.0	425.8	446.1	470.8	482.3	490.3	546.8	582.1	601.6	467.3
70°	292.4	305.6	393.1	421.4	445.2	471.7	481.4	542.4	578.6	598.0	473.5
72.5°	265.0	276.5	349.8	385.1	427.5	458.5	497.3	534.4	559.2	579.5	477.0
75°	238.5	251.8	313.6	354.2	403.7	462.0	508.8	536.2	553.0	568.9	472.6
77.5°	220.8	235.0	283.6	330.4	389.6	469.9	522.9	558.3	568.0	570.6	467.3
80°	204.9	220.8	272.1	321.5	386.0	473.5	539.7	582.1	595.4	601.6	497.3
82.5°	216.4	230.6	274.7	334.8	397.5	472.6	535.3	602.4	617.5	613.9	507.0
85°	244.7	256.2	310.1	366.6	415.2	464.6	519.4	592.7	613.9	632.5	537.1
87.5°	297.7	303.0	341.9	394.0	433.7	449.6	504.4	573.3	592.7	598.9	522.9
90°	326.0	331.3	377.2	420.5	432.8	438.1	449.6	518.5	532.7	557.4	500.0
92.5°	358.6	358.6	406.3	432.0	432.0	409.9	417.8	479.7	503.5	517.6	464.6
95°	390.4	388.7	415.2	430.2	407.2	376.3	389.6	438.1	453.2	468.2	432.0
97.5°	400.2	399.3	415.2	406.3	368.4	339.2	356.0	397.5	413.4	429.3	392.2
100°	389.6	385.1	389.6	370.1	334.8	312.7	322.4	356.9	373.7	386.9	353.3
102.5°	366.6	363.9	365.7	346.3	309.2	282.7	295.9	332.1	344.5	355.1	325.1
105°	356.0	351.6	343.6	315.4	279.1	260.6	272.1	308.3	319.8	341.0	316.2
107.5°	303.0	299.5	293.3	278.3	259.7	245.6	255.3	280.9	288.0	298.6	275.6
110°	261.5	259.7	257.9	254.4	242.9	233.2	238.5	252.6	261.5	269.4	246.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
112.5°	252.6	250.0	248.2	242.0	227.0	216.4	220.0	235.9	241.2	243.8	219.1
115°	241.2	238.5	228.8	220.0	209.4	204.1	204.9	218.2	221.7	223.5	208.5
117.5°	213.8	211.1	204.9	201.4	195.2	192.6	197.0	204.1	204.9	205.8	192.6
120°	197.9	197.0	193.5	187.3	182.9	176.7	183.7	190.8	193.5	196.1	187.3
122.5°	180.2	178.4	174.9	167.0	167.0	163.4	162.5	167.0	167.8	174.9	170.5
125°	159.0	157.2	153.7	146.6	155.5	155.5	149.3	139.6	142.2	148.4	144.9
127.5°	142.2	140.5	136.9	133.4	145.8	150.2	139.6	121.9	123.7	125.4	122.8
130°	139.6	137.8	133.4	127.2	130.7	144.0	125.4	111.3	114.0	115.7	114.0
132.5°	136.9	136.0	129.9	121.9	117.5	129.9	108.7	105.1	107.8	110.4	108.7
135°	128.1	127.2	121.9	110.4	98.1	104.2	86.6	91.9	96.3	99.8	98.1
137.5°	114.0	113.1	108.7	97.2	80.4	75.1	66.3	78.6	82.2	86.6	86.6
140°	91.9	91.0	86.6	75.1	56.5	39.8	42.4	60.1	63.6	68.9	69.8
142.5°	67.1	65.4	61.0	50.4	31.8	13.3	23.9	36.2	40.6	45.9	49.5
145°	45.9	45.1	38.9	30.0	15.0	1.8	10.6	22.1	24.7	28.3	31.8
147.5°	29.2	29.2	24.7	16.8	4.4	1.8	2.7	11.5	14.1	17.7	20.3
150°	17.7	17.7	13.3	5.3	0.9	0.9	0.9	1.8	4.4	8.0	10.6
152.5°	4.4	4.4	2.7	1.8	0.9	0.0	0.9	0.9	0.9	0.9	1.8
155°	1.8	1.8	1.8	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°	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4
2.5°	771.2	765.9	758.8	749.1	739.4	729.6	719.9	714.6	712.0	710.2	709.3
5°	834.8	823.3	804.7	779.1	747.3	728.8	715.5	699.6	689.0	685.5	682.8
7.5°	946.9	928.4	891.3	836.5	797.7	742.9	696.1	666.0	644.0	631.6	631.6
10°	1097.1	1070.6	1006.1	931.0	831.2	734.9	662.5	607.7	582.1	571.5	568.9
12.5°	1163.4	1137.8	1061.8	974.3	868.3	756.1	664.3	598.9	568.0	555.6	557.4
15°	1129.8	1094.5	1029.1	946.9	863.9	793.2	716.4	635.1	582.1	568.0	572.4
17.5°	1096.2	1060.0	990.2	899.2	818.0	771.2	717.3	662.5	612.2	591.8	588.3
20°	1194.3	1167.8	1073.3	969.9	848.0	729.6	691.7	666.9	650.1	651.0	643.1
22.5°	1287.9	1251.7	1165.1	1044.1	912.5	809.1	747.3	714.6	696.1	704.0	704.9
25°	1350.6	1323.3	1195.2	1050.3	940.8	863.9	774.7	728.8	697.8	697.8	694.3
27.5°	1669.5	1601.5	1398.3	1176.6	1013.2	886.0	778.2	725.2	686.4	674.9	676.6
30°	1836.5	1769.3	1537.0	1267.6	1096.2	939.0	787.9	705.8	696.1	688.1	690.8
32.5°	1979.6	1880.6	1605.9	1291.5	1081.2	946.9	809.1	710.2	663.4	655.4	659.0
35°	2050.2	1939.8	1660.7	1312.7	1088.3	913.4	783.5	691.7	661.6	653.7	656.3
37.5°	2376.2	2211.0	1747.3	1344.5	1086.5	869.2	749.1	674.9	619.2	595.4	595.4
40°	2750.7	2507.8	1898.3	1342.7	1019.4	831.2	711.1	642.2	598.0	579.5	578.6
42.5°	2556.4	2325.0	1810.0	1302.9	954.0	762.3	689.9	628.1	580.4	568.0	565.3
45°	2637.7	2390.3	1746.4	1191.6	856.0	707.6	639.5	596.3	541.5	513.2	512.3
47.5°	2379.7	2181.0	1616.5	1050.3	771.2	621.9	579.5	551.2	516.8	492.9	490.3
50°	2064.4	1863.9	1360.4	931.0	657.2	551.2	522.1	507.9	473.5	446.1	447.9
52.5°	1972.5	1729.6	1185.5	812.7	565.3	480.5	466.4	450.5	416.1	384.3	387.8
55°	977.9	810.0	720.8	631.6	474.4	417.8	411.6	401.9	367.5	340.1	341.0
57.5°	455.8	393.1	344.5	366.6	357.8	363.1	360.4	354.2	321.5	282.7	280.0
60°	408.1	349.8	292.4	277.4	294.2	317.1	315.4	295.9	254.4	208.5	203.2
62.5°	394.0	334.8	283.6	261.5	268.5	283.6	273.0	248.2	214.7	172.3	171.4
65°	401.0	338.3	282.7	255.3	260.6	266.8	251.8	234.1	213.8	184.6	184.6
67.5°	416.1	351.6	288.9	252.6	255.3	261.5	247.3	235.0	224.4	204.9	204.9
70°	420.5	357.8	292.4	253.5	250.9	256.2	246.5	235.0	228.8	212.9	212.0
72.5°	422.2	361.3	290.6	249.1	242.9	247.3	240.3	235.0	232.3	220.0	218.2
75°	414.3	357.8	281.8	239.4	233.2	235.0	233.2	232.3	235.9	227.9	225.3
77.5°	404.6	352.5	274.7	228.8	221.7	222.6	220.8	223.5	227.0	221.7	217.3
80°	424.9	367.5	275.6	220.8	207.6	203.2	204.1	206.7	211.1	199.6	193.5
82.5°	432.0	368.4	263.2	203.2	186.4	180.2	182.0	189.0	192.6	182.0	175.8
85°	458.5	385.1	254.4	187.3	167.8	161.7	163.4	167.8	166.1	153.7	148.4
87.5°	447.9	373.7	238.5	168.7	152.8	147.5	148.4	150.2	144.0	128.1	123.7
90°	432.8	360.4	220.8	148.4	135.2	133.4	131.6	129.0	118.4	101.6	97.2
92.5°	405.5	336.6	204.9	134.3	120.1	119.3	116.6	111.3	101.6	84.8	80.4
95°	382.5	315.4	189.9	122.8	107.8	104.2	104.2	98.9	88.3	74.2	72.4
97.5°	344.5	287.1	174.9	113.1	96.3	92.8	91.9	88.3	80.4	69.8	68.9
100°	311.8	259.7	159.0	102.5	86.6	83.0	81.3	79.5	73.3	67.1	67.1
102.5°	288.9	240.3	148.4	93.6	77.7	74.2	74.2	72.4	68.9	64.5	64.5
105°	282.7	235.9	144.0	85.7	68.9	67.1	68.0	68.0	65.4	62.7	62.7
107.5°	245.6	203.2	123.7	76.0	62.7	61.0	61.8	62.7	61.8	61.0	61.0
110°	219.1	184.6	114.8	71.6	59.2	56.5	56.5	56.5	56.5	57.4	58.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	196.1	164.3	105.1	68.0	55.7	53.0	52.1	51.2	50.4	53.9	53.9
115°	187.3	159.9	102.5	66.3	53.0	50.4	47.7	45.9	44.2	46.8	47.7
117.5°	174.0	150.2	99.8	66.3	52.1	47.7	45.1	42.4	39.8	42.4	42.4
120°	170.5	149.3	101.6	67.1	50.4	44.2	41.5	38.0	36.2	38.9	39.8
122.5°	157.2	139.6	96.3	63.6	48.6	42.4	39.8	32.7	32.7	34.5	35.3
125°	133.4	118.4	83.0	57.4	45.9	42.4	38.9	29.2	30.0	31.8	31.8
127.5°	114.0	102.5	76.0	55.7	46.8	43.3	36.2	27.4	29.2	31.8	31.8
130°	107.8	98.1	76.9	58.3	48.6	44.2	30.0	23.9	28.3	30.9	30.9
132.5°	103.4	95.4	76.9	61.0	50.4	40.6	23.9	21.2	23.9	25.6	25.6
135°	93.6	88.3	73.3	58.3	45.9	31.8	19.4	18.6	22.1	23.9	23.9
137.5°	83.9	78.6	67.1	53.9	40.6	25.6	14.1	16.8	18.6	20.3	20.3
140°	68.9	65.4	55.7	44.2	30.0	14.1	10.6	13.3	15.9	17.7	17.7
142.5°	48.6	46.8	38.9	28.3	16.8	5.3	7.1	9.7	11.5	13.3	13.3
145°	31.8	30.0	24.7	17.7	7.1	1.8	4.4	6.2	8.8	9.7	9.7
147.5°	20.3	19.4	15.0	8.8	2.7	1.8	1.8	4.4	7.1	8.0	8.0
150°	9.7	8.8	6.2	2.7	1.8	0.9	0.9	1.8	4.4	5.3	5.3
152.5°	1.8	1.8	1.8	0.9	0.9	0.0	0.0	0.9	0.9	1.8	1.8
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)