

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: P266416

Luminaire Tested: **UTLD-AF24-60-D-U-T3-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-25)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-60-D-U-T3-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4817.1 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

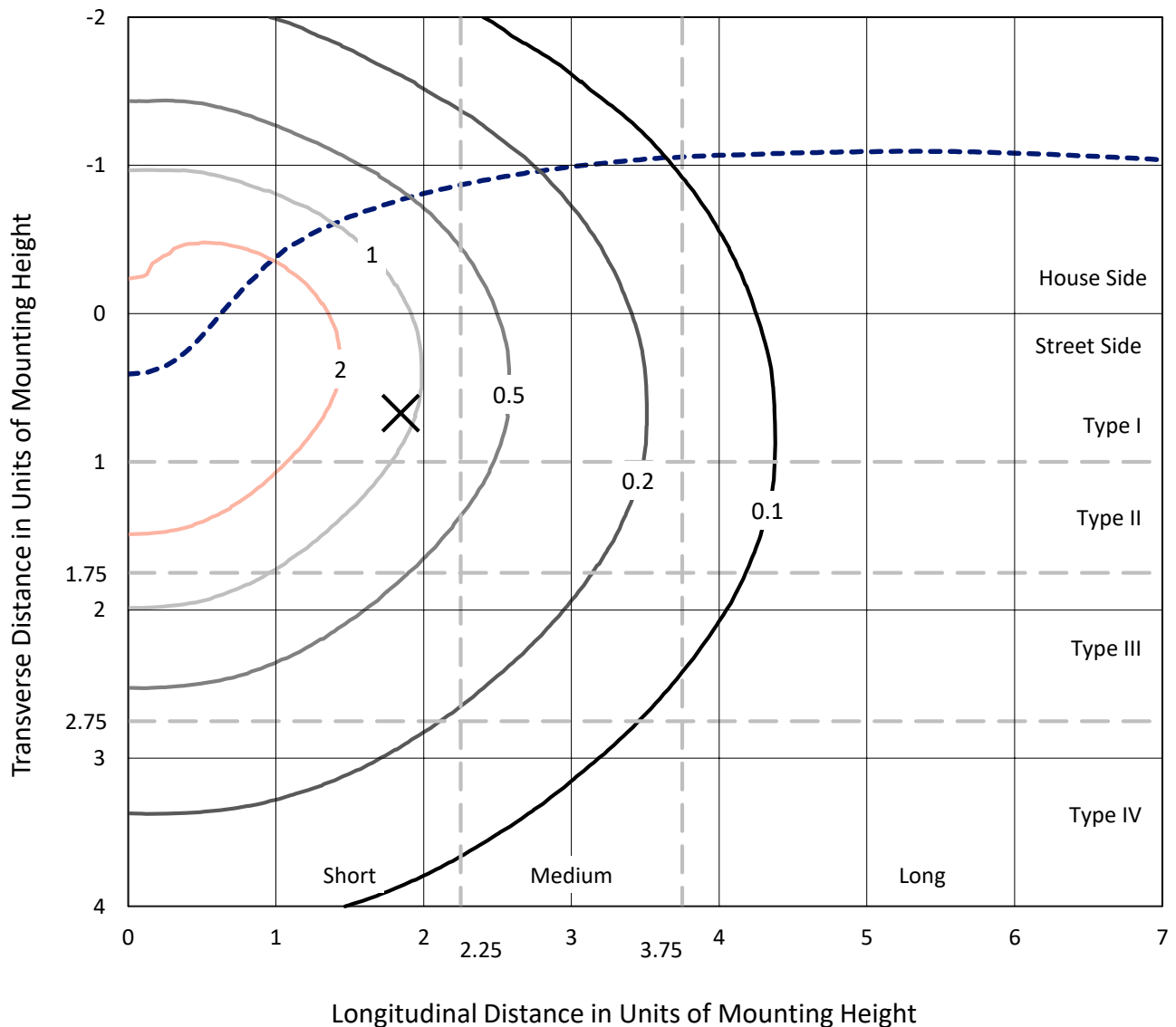
Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

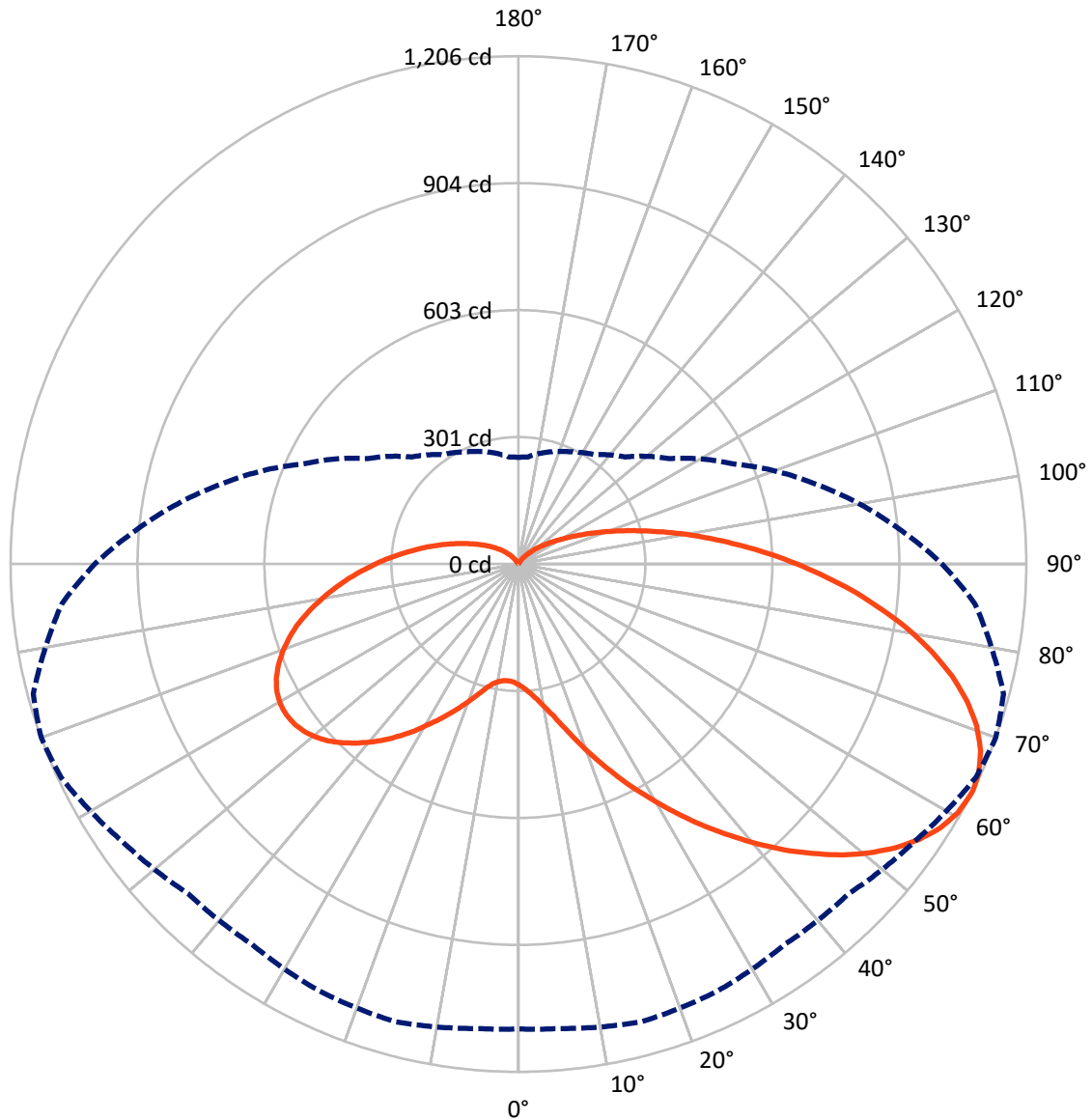


Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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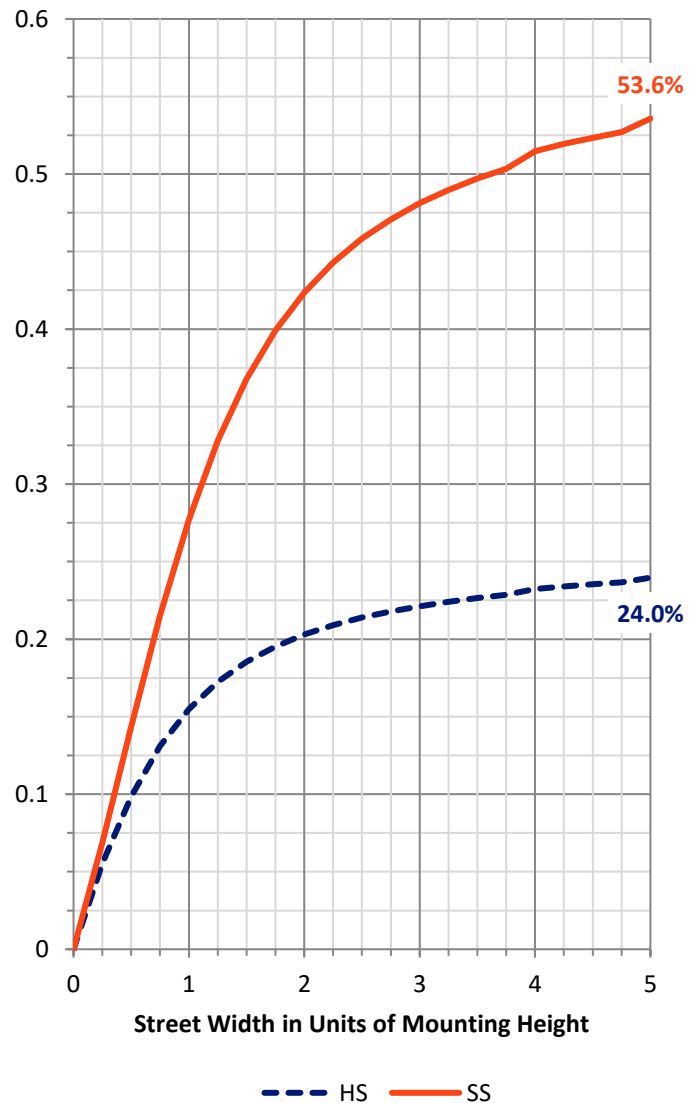
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1231.3	278.7	1510.0
	% Fixture	25.6	5.8	31.3
Street Side	Lumens	2783.4	523.7	3307.1
	% Fixture	57.8	10.9	68.7
Total	Lumens	4014.7	802.4	4817.1
	% Fixture	83.3	16.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.6	0.6
10°-20°	100.5	2.1
20°-30°	215.9	4.5
30°-40°	376.2	7.8
40°-50°	559.0	11.6
50°-60°	713.8	14.8
60°-70°	773.9	16.1
70°-80°	704.7	14.6
80°-90°	542.1	11.3
90°-100°	363.6	7.5
100°-110°	220.4	4.6
110°-120°	123.0	2.6
120°-130°	62.4	1.3
130°-140°	25.9	0.5
140°-150°	6.6	0.1
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4014.7	83.3
0°-180°	4817.1	100.0



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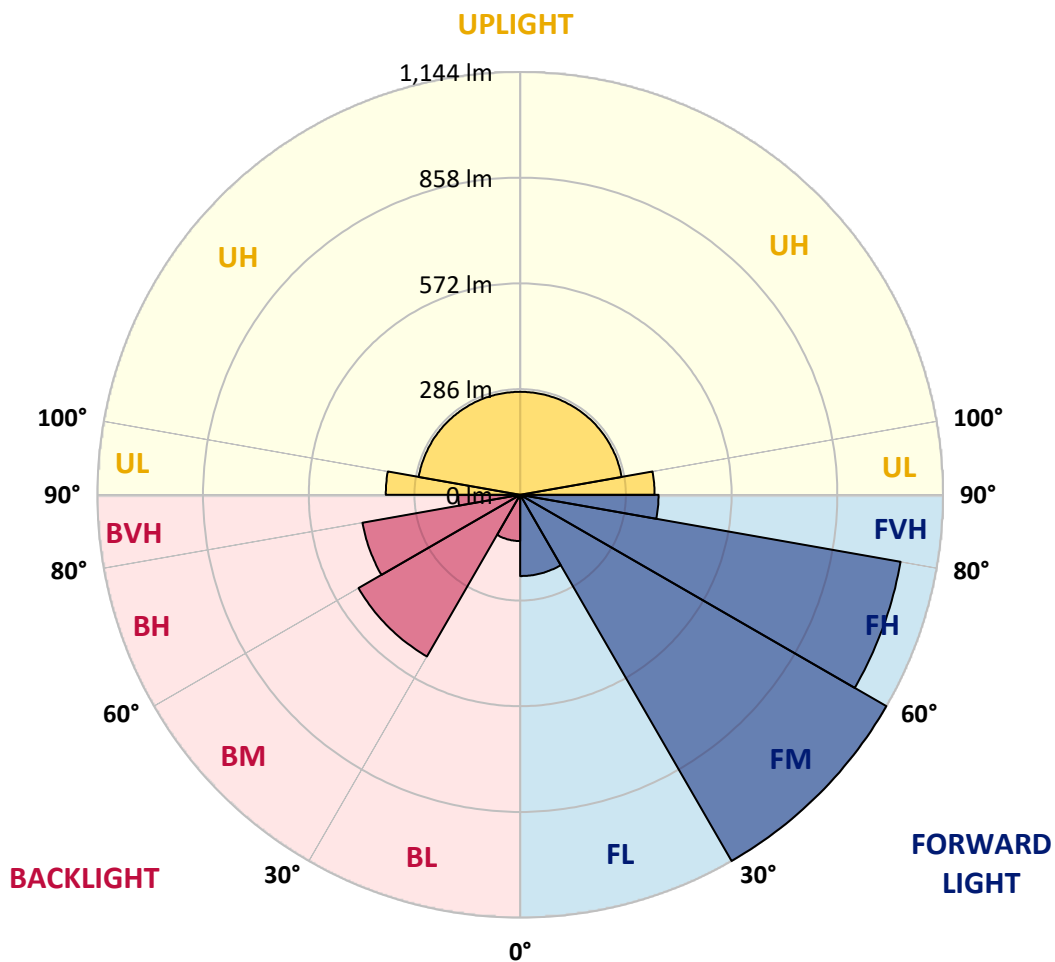
CATALOG NUMBER: UTLD-AF24-60-D-U-T3-FP-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	219.9	4.6			
FM	(30°-60°)	1144.1	23.8			
FH	(60°-80°)	1045.2	21.7			G1/1800
FVH	(80°-90°)	374.3	7.8			G3/500
BL	(0°-30°)	125.1	2.6	B1/500		
BM	(30°-60°)	504.9	10.5	B1/1000		
BH	(60°-80°)	433.4	9.0	B1/500		G1/500
BVH	(80°-90°)	167.8	3.5			G2/225
UL	(90°-100°)	363.6	7.5		U3/500	
UH	(100°-180°)	278.7	5.8		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	287.5	287.5	287.5	287.5	287.5	287.5	287.5	287.5	287.5	287.5	287.5
2.5°	310.9	310.9	310.3	309.6	307.7	305.2	301.4	298.9	296.4	294.5	290.6
5°	337.5	338.8	336.2	335.0	330.4	325.5	319.7	312.8	309.6	305.2	297.6
7.5°	366.0	367.2	364.7	361.6	355.9	348.3	339.4	330.4	324.7	319.1	307.7
10°	397.6	398.3	395.1	391.3	384.4	374.9	365.3	352.0	345.7	338.1	322.9
12.5°	433.2	431.8	429.3	422.9	414.7	404.5	391.9	378.6	369.7	360.8	342.0
15°	473.5	473.0	468.6	460.9	450.8	439.5	424.2	409.6	400.9	391.3	368.6
17.5°	516.0	514.8	510.3	501.4	490.7	476.1	464.8	447.6	436.8	426.8	400.9
20°	558.4	557.8	554.7	544.6	532.4	521.0	505.8	488.1	477.4	463.4	433.7
22.5°	607.3	605.3	600.2	591.4	581.3	569.9	554.1	531.8	519.8	506.6	471.2
25°	655.9	655.4	648.9	639.6	631.2	618.7	603.4	577.4	565.5	547.1	509.1
27.5°	706.5	705.3	699.1	688.9	682.5	670.6	651.5	626.2	611.7	593.9	551.5
30°	759.2	758.4	751.0	740.8	733.8	722.4	702.8	675.5	661.1	641.4	593.9
32.5°	811.7	811.7	804.2	795.3	787.0	772.5	754.0	728.2	712.4	691.4	638.2
35°	866.9	863.6	857.9	849.6	836.4	821.9	805.4	782.0	765.4	742.7	686.3
37.5°	918.7	918.7	909.3	902.3	887.6	871.3	856.1	836.4	818.0	795.9	733.1
40°	970.0	970.7	961.7	952.9	933.9	918.7	905.4	889.6	873.2	850.3	784.5
42.5°	1019.3	1018.0	1010.0	999.8	978.9	961.7	953.6	940.3	928.2	904.1	833.8
45°	1065.0	1061.8	1055.5	1043.4	1019.3	1002.2	999.2	992.7	980.1	958.6	883.9
47.5°	1100.5	1098.5	1096.0	1080.2	1055.5	1039.0	1039.0	1041.6	1032.1	1010.0	930.7
50°	1129.6	1128.9	1127.6	1109.9	1083.4	1070.7	1075.7	1084.7	1078.2	1058.7	972.5
52.5°	1149.2	1148.6	1150.5	1132.1	1106.2	1094.8	1106.8	1124.5	1119.5	1101.7	1012.4
55°	1156.7	1156.7	1162.4	1145.3	1119.5	1110.6	1130.2	1155.0	1154.2	1138.4	1042.8
57.5°	1153.7	1154.2	1164.5	1148.6	1124.5	1119.5	1145.3	1178.9	1181.5	1165.7	1068.2
60°	1139.1	1139.7	1153.7	1141.6	1120.6	1119.5	1152.3	1193.5	1198.6	1184.7	1082.6
62.5°	1111.3	1113.8	1130.8	1123.2	1106.2	1110.6	1149.8	1198.0	1204.8	1191.6	1088.3
63°	1103.6	1106.8	1125.1	1118.2	1102.3	1107.4	1147.9	1198.0	1205.5	1192.2	1088.3
65°	1072.5	1076.3	1097.3	1094.1	1082.6	1092.2	1137.2	1191.1	1200.5	1188.5	1082.6
67.5°	1022.6	1030.1	1054.3	1056.8	1051.0	1065.6	1114.9	1173.2	1183.3	1172.0	1065.6
70°	962.4	971.2	1002.2	1010.0	1008.6	1030.1	1082.6	1143.5	1154.2	1142.9	1036.5
72.5°	897.9	909.9	938.4	954.8	963.1	986.5	1042.8	1102.9	1113.8	1101.7	997.8
75°	827.6	840.3	875.7	895.9	908.5	937.7	993.4	1053.6	1063.1	1053.6	949.1
77.5°	757.4	769.9	806.0	832.0	851.7	886.4	941.6	996.6	1003.5	993.4	892.1
80°	685.0	699.6	734.5	764.8	791.4	826.4	879.5	929.4	937.7	924.4	830.8
82.5°	613.5	626.2	665.5	700.9	729.5	764.2	814.9	861.7	865.5	852.2	763.0
85°	549.0	559.7	598.4	636.3	669.9	704.1	751.0	788.4	794.0	776.9	695.8
87.5°	488.1	496.5	536.9	574.2	608.5	646.5	688.2	718.0	718.0	704.7	625.6
90°	431.8	437.6	474.2	515.4	552.1	585.6	625.0	650.3	647.0	630.6	559.7
92.5°	377.4	384.4	420.4	459.8	497.0	531.8	563.4	580.7	576.3	559.0	496.5
95°	332.5	335.5	371.0	411.6	445.7	477.4	505.2	517.3	510.3	493.2	433.7
97.5°	291.3	293.7	324.7	363.5	400.1	429.3	448.3	455.9	449.0	431.8	382.4
100°	257.8	258.4	286.2	323.6	357.7	383.0	400.1	400.1	393.8	376.7	331.7
102.5°	224.8	226.1	248.8	286.2	318.4	340.6	353.9	352.7	341.3	324.2	288.0
105°	198.2	199.5	217.2	253.2	282.3	302.6	313.4	305.9	295.1	279.8	249.5
107.5°	174.8	175.3	189.4	221.6	249.5	268.5	274.2	265.9	254.0	239.4	217.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	156.3	155.8	166.5	194.4	221.0	236.9	239.9	229.8	217.7	205.8	188.0
112.5°	138.7	138.7	145.6	169.1	193.8	208.9	210.3	195.7	185.5	174.8	163.3
115°	124.1	123.4	128.5	147.0	169.7	182.4	181.1	167.9	158.3	149.4	141.8
117.5°	111.4	110.1	113.9	126.7	147.5	159.5	156.3	141.3	134.2	127.9	123.4
120°	100.0	99.4	101.2	110.1	126.7	136.2	132.9	119.7	113.4	110.1	107.6
122.5°	89.9	89.9	89.3	95.0	107.6	115.3	110.9	100.0	96.3	94.3	94.3
125°	81.0	81.0	79.8	81.7	89.9	96.3	92.4	83.6	81.0	81.0	81.7
127.5°	72.1	72.1	71.0	70.2	74.1	78.5	74.1	69.0	68.5	69.0	70.2
130°	64.0	63.3	62.1	59.5	60.1	62.1	58.8	56.4	57.0	58.8	60.1
132.5°	56.4	55.8	53.8	50.0	47.5	47.5	44.9	44.9	46.8	48.8	51.4
135°	48.8	48.1	46.3	41.9	37.4	34.9	32.9	35.5	38.0	39.9	42.4
137.5°	41.1	40.6	38.0	33.5	27.8	24.1	23.4	27.2	29.7	32.2	34.1
140°	33.5	32.9	30.5	26.0	19.7	15.2	15.2	20.2	22.7	24.8	27.2
142.5°	26.6	26.0	24.1	19.0	12.7	9.5	10.2	14.6	16.4	18.3	20.2
145°	19.7	19.7	17.7	13.2	7.5	4.4	5.7	9.5	11.4	12.7	14.6
147.5°	13.2	13.2	11.4	8.3	4.4	1.8	2.5	5.7	6.9	8.3	9.5
150°	8.3	8.3	6.9	4.4	1.8	0.0	1.3	2.5	3.9	4.4	5.7
152.5°	4.4	4.4	3.1	1.8	0.5	0.0	0.0	1.3	1.3	1.8	2.5
155°	1.8	1.3	1.3	0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5
157.5°	0.5	0.0	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	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	287.5	287.5	287.5	287.5	287.5	287.5	287.5	287.5	287.5	287.5	287.5
2.5°	288.7	286.7	282.3	279.3	275.4	272.2	270.4	267.2	265.3	265.9	265.3
5°	293.7	290.1	281.8	274.8	267.2	260.9	255.7	251.3	248.8	246.9	247.6
7.5°	302.0	296.4	284.4	272.8	261.4	252.1	244.3	238.7	233.6	232.4	231.8
10°	314.6	307.1	290.1	274.8	260.1	246.9	236.9	228.6	223.5	221.0	221.0
12.5°	332.5	321.7	300.2	279.8	261.4	245.1	232.4	222.2	216.5	213.9	213.3
15°	357.0	343.8	317.2	290.1	266.5	246.9	231.8	221.6	217.2	216.0	215.2
17.5°	385.6	371.0	338.1	306.4	276.7	252.1	237.4	229.2	224.1	221.6	221.0
20°	417.9	398.8	361.6	324.7	291.3	265.3	248.8	237.4	231.1	227.9	227.4
22.5°	450.8	429.8	386.9	344.4	307.7	283.7	260.1	246.2	237.4	233.6	232.4
25°	486.3	462.8	412.9	365.3	328.1	300.8	274.2	254.0	243.8	239.4	239.4
27.5°	524.3	497.0	440.1	386.9	348.9	316.7	287.5	262.1	250.1	245.1	244.3
30°	564.1	533.8	467.8	410.3	368.6	331.1	298.9	271.0	256.5	250.7	250.1
32.5°	607.3	572.4	498.9	435.6	386.9	344.4	308.9	279.3	262.1	255.2	254.5
35°	649.7	610.4	528.1	460.3	403.2	355.9	317.2	287.5	266.5	259.6	259.0
37.5°	696.5	650.9	559.0	484.4	418.5	364.7	324.2	293.7	271.0	263.5	262.1
40°	741.5	690.7	588.2	505.8	431.1	372.9	329.9	299.4	274.8	266.5	265.3
42.5°	785.7	731.3	617.3	526.1	442.0	377.9	333.7	303.3	278.6	269.1	267.2
45°	830.0	769.3	647.0	542.7	450.2	382.4	336.2	306.4	281.8	270.4	269.1
47.5°	871.3	806.7	674.3	557.2	455.9	384.4	337.5	307.7	284.4	271.0	269.1
50°	910.5	838.9	697.2	568.0	459.8	384.4	337.5	308.4	285.5	271.0	269.8
52.5°	944.7	866.9	715.5	574.9	460.3	382.4	335.5	307.7	285.5	269.8	267.9
55°	970.7	889.6	728.7	578.1	458.5	379.3	332.5	305.9	284.9	267.9	265.9
57.5°	991.5	905.4	737.0	577.4	454.0	374.2	328.6	303.3	283.1	264.7	262.8
60°	1004.1	913.7	738.2	572.9	447.6	367.9	323.6	299.4	280.5	261.4	259.0
62.5°	1006.1	913.0	733.8	564.1	438.2	360.3	317.2	294.5	276.0	256.5	254.0
63°	1005.5	912.4	731.3	562.2	436.2	359.1	316.7	293.7	275.4	255.2	253.2
65°	998.5	904.9	721.8	552.1	427.5	351.3	310.9	288.7	271.6	251.3	248.2
67.5°	980.1	887.6	704.1	535.0	414.1	341.3	302.6	282.3	265.3	245.1	241.9
70°	952.3	863.6	679.9	516.0	400.1	330.4	293.7	274.2	258.4	238.1	234.3
72.5°	915.0	828.9	652.2	493.9	383.7	318.4	283.7	265.3	249.5	230.4	224.8
75°	870.0	788.4	621.2	469.9	366.0	305.9	273.5	256.5	240.6	221.6	216.0
77.5°	816.1	742.1	582.6	444.5	348.9	292.5	262.1	245.6	230.4	211.6	205.8
80°	758.4	690.7	544.0	415.9	329.9	278.6	250.7	234.3	219.0	201.3	194.4
82.5°	697.8	635.7	502.7	388.7	310.9	264.0	238.7	222.2	207.7	190.6	184.2
85°	636.3	580.7	462.8	361.6	291.3	250.1	226.1	210.8	195.0	178.6	172.2
87.5°	575.5	526.8	424.2	333.0	272.8	236.2	213.3	198.2	182.4	166.5	161.4
90°	517.3	474.8	383.7	306.4	254.0	221.0	200.7	185.5	170.3	154.5	149.4
92.5°	459.0	422.4	346.9	282.3	236.2	207.1	188.0	172.8	157.1	141.8	138.7
95°	407.1	375.5	312.2	256.5	219.0	193.8	175.3	160.8	144.4	129.7	127.9
97.5°	358.3	331.1	277.9	234.3	201.9	179.2	162.8	147.5	131.1	117.8	116.5
100°	314.6	292.5	248.8	211.6	185.0	165.8	150.6	135.6	119.0	107.6	106.4
102.5°	274.8	257.1	221.6	191.2	169.7	152.6	137.4	122.9	107.0	96.8	96.8
105°	240.6	224.8	196.3	172.2	153.9	138.7	124.8	110.1	94.3	86.1	86.1
107.5°	208.2	197.5	174.1	153.9	139.2	126.0	112.6	98.2	83.0	76.6	77.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	181.6	172.8	153.3	138.0	126.0	113.9	101.2	86.7	72.1	67.7	68.5
112.5°	158.3	151.4	134.8	122.9	112.6	102.5	89.9	75.4	62.7	60.1	60.7
115°	138.0	132.3	119.7	109.0	100.7	91.2	79.8	65.1	54.4	53.2	53.2
117.5°	120.4	115.9	105.1	96.8	89.3	81.0	69.7	56.4	46.8	46.8	46.8
120°	105.7	102.0	93.1	85.5	79.1	71.0	60.1	47.5	40.6	41.1	41.1
122.5°	91.7	89.3	81.0	75.4	69.0	62.1	51.4	39.3	34.9	36.1	36.7
125°	80.4	77.9	71.5	65.1	59.5	52.6	42.4	32.9	30.5	31.7	31.7
127.5°	69.0	67.7	62.1	56.4	51.4	44.3	34.9	27.2	26.6	27.8	27.8
130°	59.5	58.3	53.8	47.5	42.4	36.1	27.8	22.2	22.2	23.4	23.4
132.5°	50.7	50.0	45.5	39.9	34.9	28.4	22.2	17.7	19.0	20.2	20.2
135°	41.9	41.9	38.0	32.2	27.2	21.5	16.4	14.6	15.8	17.1	17.1
137.5°	34.1	33.5	30.5	25.3	20.2	15.8	12.0	11.4	13.2	14.6	14.6
140°	27.2	26.6	24.1	19.7	14.6	10.8	8.3	8.9	10.8	11.4	12.0
142.5°	20.2	20.2	17.7	14.6	9.5	6.4	5.1	6.9	8.3	8.9	9.5
145°	14.6	14.6	12.7	9.5	5.7	3.1	3.1	5.1	6.4	6.9	6.9
147.5°	9.5	9.5	8.3	5.7	3.1	1.3	1.8	3.1	4.4	5.1	5.1
150°	5.7	5.1	4.4	2.5	1.3	0.0	0.5	1.3	2.5	3.1	2.5
152.5°	2.5	2.5	1.8	1.3	0.5	0.0	0.0	0.0	0.5	1.3	1.3
155°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	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	0.0	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)