

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: P266423

Luminaire Tested: **UTLD-AF24-60-D-U-T4W-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-26)
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-T4W-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4783.7 lumens
Efficiency: N/A
Efficacy: 74.7 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



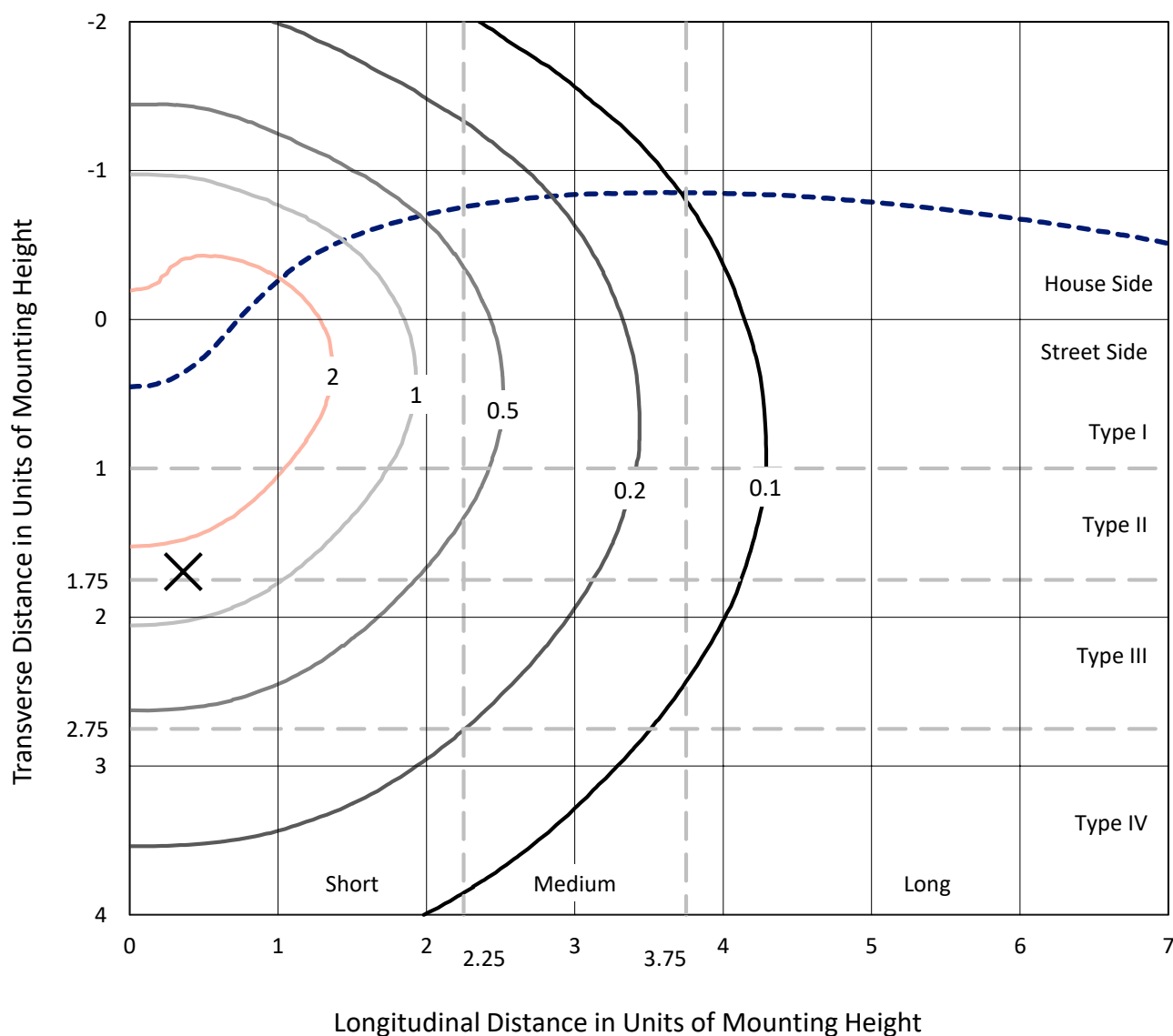
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

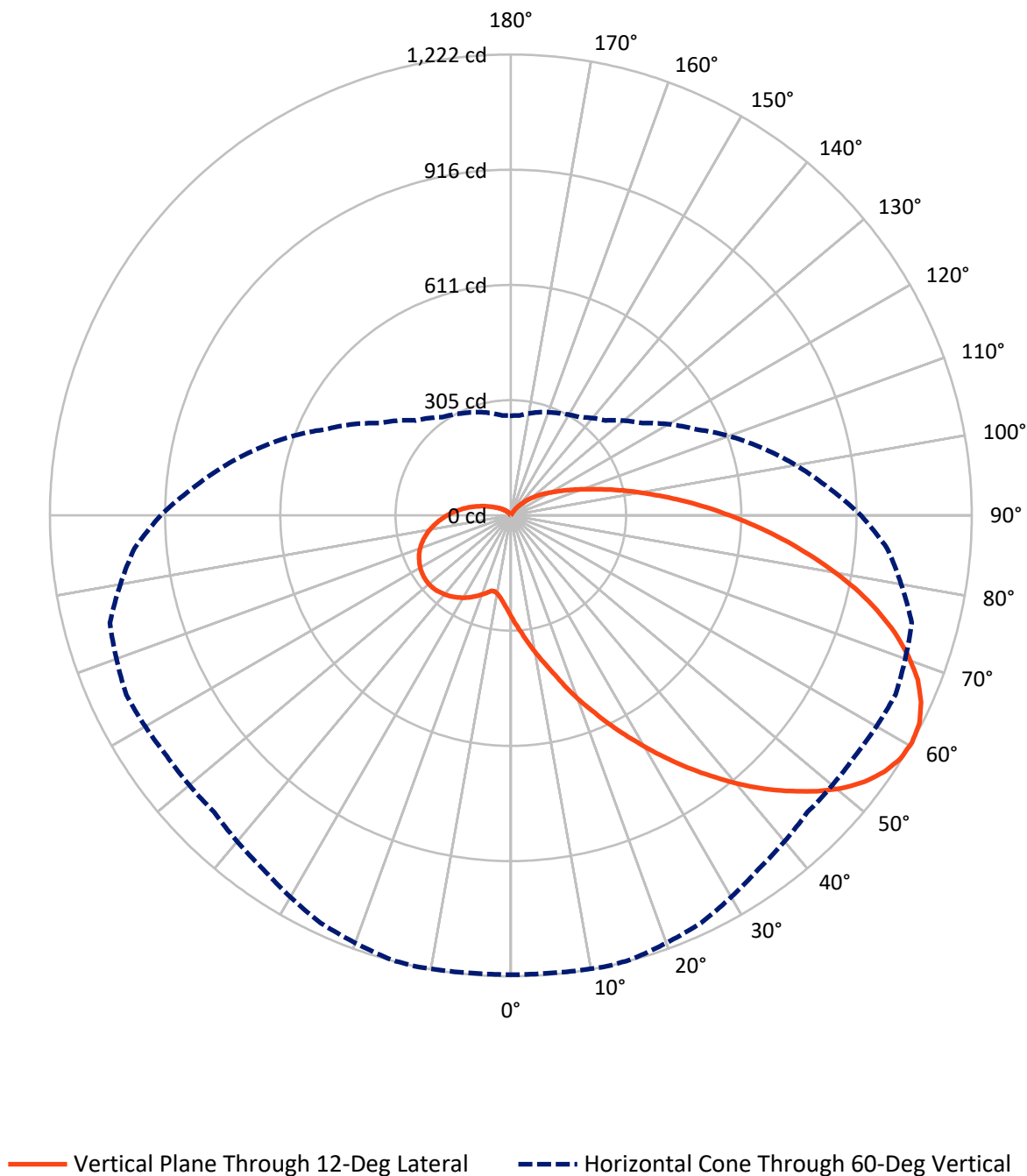


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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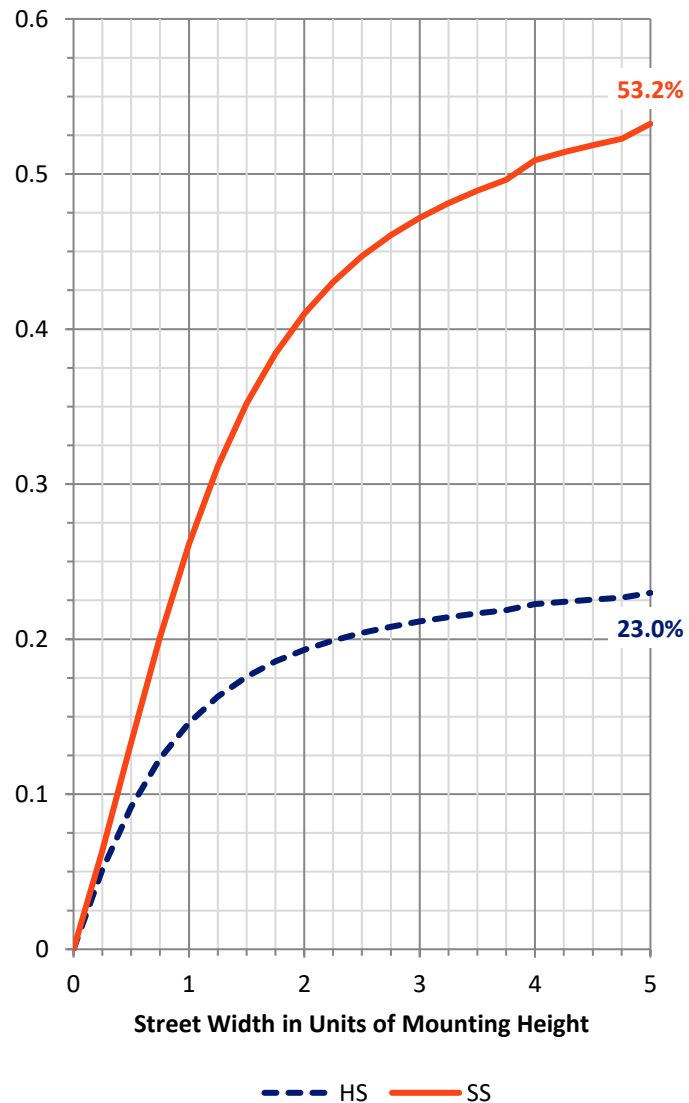
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1176.1	270.8	1447.0
	% Fixture	24.6	5.7	30.2
Street Side	Lumens	2775.5	561.3	3336.8
	% Fixture	58.0	11.7	69.8
Total	Lumens	3951.6	832.1	4783.7
	% Fixture	82.6	17.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	0.6
10°-20°	93.8	2.0
20°-30°	201.2	4.2
30°-40°	352.3	7.4
40°-50°	530.5	11.1
50°-60°	692.5	14.5
60°-70°	771.3	16.1
70°-80°	720.0	15.1
80°-90°	563.3	11.8
90°-100°	380.7	8.0
100°-110°	230.0	4.8
110°-120°	126.7	2.6
120°-130°	63.0	1.3
130°-140°	25.2	0.5
140°-150°	6.0	0.1
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3951.6	82.6
0°-180°	4783.7	100.0

Coefficient of Utilization



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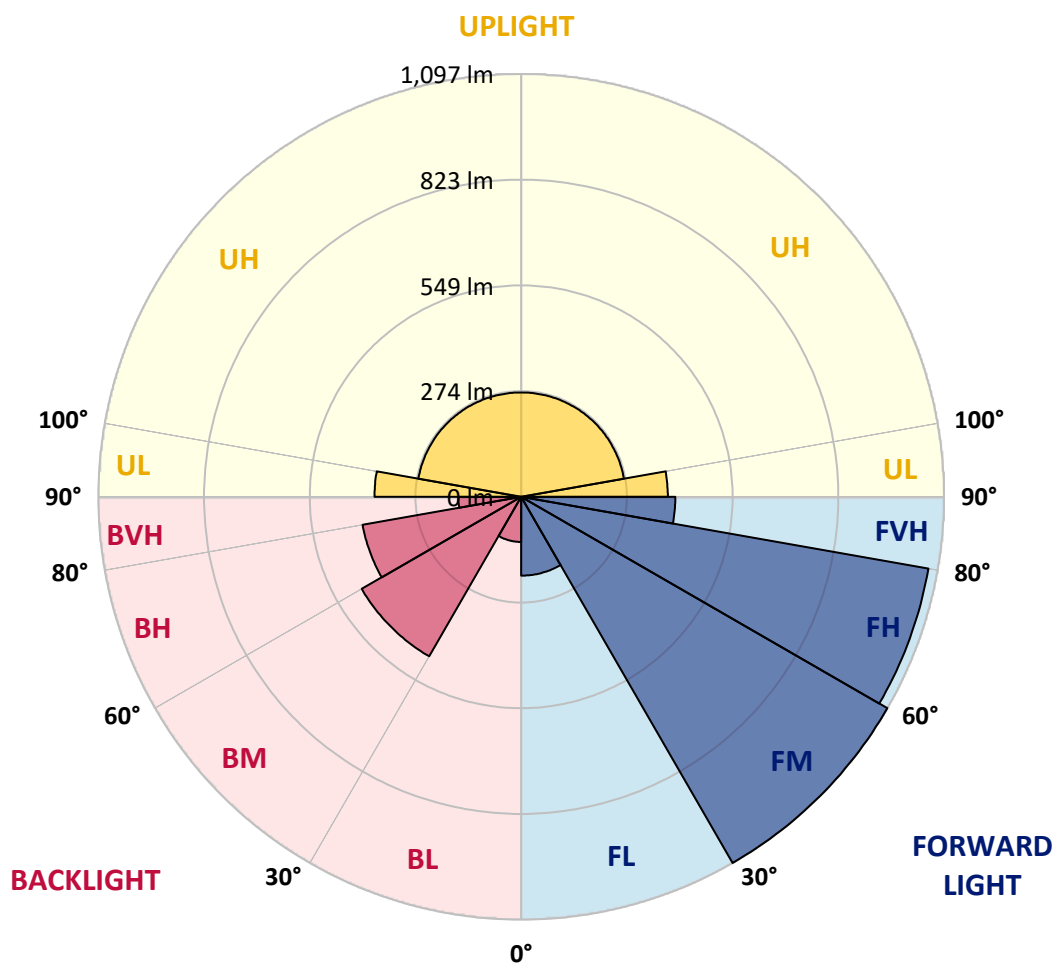
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	204.6	4.3			
FM	(30°-60°)	1097.5	22.9			
FH	(60°-80°)	1073.4	22.4			G1/1800
FVH	(80°-90°)	400.0	8.4			G3/500
BL	(0°-30°)	117.2	2.4	B1/500		
BM	(30°-60°)	477.8	10.0	B1/1000		
BH	(60°-80°)	417.9	8.7	B1/500		G1/500
BVH	(80°-90°)	163.3	3.4			G2/225
UL	(90°-100°)	380.7	8.0		U3/500	
UH	(100°-180°)	270.8	5.7		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	269.8	269.8	269.8	269.8	269.8	269.8	269.8	269.8	269.8	269.8	269.8
2.5°	293.1	291.9	291.9	290.6	290.6	288.0	286.2	283.0	279.8	276.0	272.8
5°	316.6	316.6	315.2	315.2	312.7	308.3	303.8	298.1	292.5	286.2	278.6
7.5°	344.4	343.8	343.8	341.9	338.8	332.4	326.1	317.8	308.9	298.1	288.0
10°	372.8	372.3	372.3	370.3	366.6	359.0	349.5	340.0	328.6	314.6	300.8
12.5°	407.1	404.5	403.2	402.6	396.3	389.3	377.3	365.9	350.8	334.9	317.8
15°	443.1	442.5	438.7	436.8	430.5	419.8	408.4	394.4	379.3	361.5	340.5
17.5°	483.6	483.6	481.1	478.5	471.7	457.1	442.5	429.2	414.1	392.5	369.2
20°	527.3	527.3	524.3	520.4	511.6	498.9	484.4	468.5	450.1	426.8	398.2
22.5°	573.6	572.3	567.9	565.4	554.7	540.7	529.3	510.9	489.3	462.7	429.8
25°	622.3	620.4	616.0	613.5	600.7	590.0	576.7	555.2	530.4	500.1	463.4
27.5°	673.5	668.6	665.4	661.6	649.6	638.8	620.4	600.2	571.7	540.1	499.5
30°	723.0	721.1	717.2	712.3	701.4	688.8	668.6	646.4	618.6	583.7	538.8
32.5°	779.3	777.5	771.1	766.1	752.2	738.9	717.9	694.5	664.7	628.0	579.2
35°	835.8	833.2	826.3	820.5	809.2	789.5	764.7	742.5	712.9	675.5	623.0
37.5°	894.0	888.9	881.2	877.5	863.5	839.5	813.5	789.5	762.2	724.3	667.4
40°	949.0	946.5	937.7	933.2	918.0	888.2	859.8	838.2	813.5	773.6	713.6
42.5°	1005.4	1000.9	992.1	987.6	969.9	935.8	906.0	885.6	864.8	825.5	760.3
45°	1055.4	1053.4	1042.8	1040.1	1018.7	981.9	947.7	930.0	911.7	874.3	803.4
47.5°	1104.0	1099.6	1092.7	1089.6	1064.2	1022.5	988.9	973.8	958.5	924.4	849.5
50°	1144.0	1143.4	1137.1	1133.2	1104.0	1058.6	1024.3	1012.3	1004.0	971.2	891.4
52.5°	1178.1	1177.6	1173.7	1170.0	1139.0	1091.4	1056.0	1047.2	1044.5	1014.2	928.0
55°	1202.2	1201.7	1200.3	1196.5	1166.2	1117.4	1082.5	1075.6	1078.8	1050.3	961.0
57.5°	1216.1	1215.5	1217.5	1214.2	1183.2	1135.2	1101.0	1099.0	1106.6	1080.8	985.7
60°	1217.5	1217.5	1221.9	1220.0	1192.1	1144.6	1112.3	1113.0	1124.9	1100.3	1001.6
62.5°	1206.1	1206.1	1215.5	1213.6	1189.5	1144.0	1114.3	1119.3	1134.5	1111.1	1007.3
65°	1181.4	1184.5	1195.3	1195.3	1176.3	1135.2	1107.9	1115.5	1133.9	1110.5	1003.4
67.5°	1142.1	1148.5	1163.7	1164.9	1151.5	1115.5	1091.4	1102.2	1122.5	1097.8	987.6
70°	1093.3	1102.2	1118.0	1122.5	1116.8	1086.9	1066.7	1079.5	1099.0	1074.4	961.6
72.5°	1036.4	1044.5	1064.9	1069.9	1071.9	1048.4	1032.6	1047.8	1063.7	1037.1	925.6
75°	973.0	980.1	1002.8	1007.9	1016.2	1002.8	992.6	1004.8	1022.5	989.6	879.4
77.5°	896.5	908.5	933.8	939.4	955.3	949.0	941.5	955.9	969.4	934.4	825.5
80°	822.4	837.6	858.5	869.9	888.9	888.2	889.5	899.1	910.4	872.4	767.3
82.5°	747.0	757.8	782.6	793.3	822.4	829.3	829.3	842.0	845.8	803.4	704.6
85°	671.0	683.7	708.5	719.3	750.9	766.1	770.4	776.9	777.5	733.1	640.0
87.5°	604.0	611.6	635.0	648.2	682.5	700.1	705.9	713.6	708.5	664.7	573.6
90°	536.8	543.8	566.7	577.4	614.7	635.6	648.2	651.5	641.3	595.0	512.8
92.5°	474.1	481.1	502.7	515.4	552.1	574.2	586.2	588.7	577.4	530.4	454.0
95°	419.1	419.1	442.5	452.0	493.2	517.9	529.3	529.3	513.4	467.2	397.6
97.5°	367.1	368.5	386.8	398.8	436.8	462.7	474.8	475.5	453.3	409.5	350.1
100°	320.3	322.2	339.3	350.1	386.8	414.1	424.8	422.9	400.1	355.2	302.5
102.5°	281.7	281.7	296.4	305.2	340.0	367.1	377.3	373.5	350.1	307.0	264.0
105°	246.9	248.2	257.6	266.5	299.4	324.7	334.9	329.1	305.2	263.4	230.4
107.5°	219.0	218.4	224.8	231.0	262.0	286.2	295.1	288.0	262.8	225.4	200.1
110°	191.2	191.8	196.9	201.3	229.7	252.7	258.9	253.2	224.8	191.8	173.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	169.1	169.1	172.8	176.6	196.9	219.0	226.6	218.4	191.2	162.8	151.4
115°	150.0	150.6	152.0	153.8	170.9	191.2	197.5	187.3	160.7	139.2	131.7
117.5°	133.6	133.6	134.1	136.2	146.9	165.3	169.7	158.9	136.2	119.0	115.8
120°	119.7	119.0	118.3	119.0	126.7	140.0	144.4	133.6	113.4	103.1	100.7
122.5°	106.4	106.4	105.1	105.7	107.6	117.8	120.9	110.9	95.6	89.3	88.7
125°	93.8	93.8	92.4	91.7	91.2	96.2	97.5	89.9	79.1	77.3	76.5
127.5°	81.7	82.4	80.4	79.8	77.3	77.9	78.5	71.5	65.1	65.8	66.5
130°	71.5	71.5	69.7	68.5	64.6	61.4	60.1	55.8	53.2	55.8	57.6
132.5°	62.1	60.7	59.5	58.2	52.6	48.1	45.5	41.9	43.1	46.8	48.8
135°	51.9	51.3	49.3	48.8	43.1	36.1	31.7	30.5	34.1	38.5	39.9
137.5°	42.4	42.4	40.6	39.3	32.9	26.0	21.5	21.5	26.0	30.5	32.9
140°	33.5	33.5	31.7	30.5	24.8	17.7	13.2	14.0	19.0	23.4	25.3
142.5°	25.3	25.3	23.4	22.7	17.7	11.4	7.5	8.9	13.2	17.1	19.0
145°	18.3	17.7	16.4	15.8	11.4	6.9	3.9	5.1	8.3	11.4	13.2
147.5°	12.0	12.0	10.8	10.2	6.9	3.9	1.3	2.5	5.1	6.9	8.9
150°	6.9	6.9	6.4	5.7	3.9	1.3	0.0	1.3	2.5	3.9	5.1
152.5°	3.9	3.9	3.1	3.1	1.3	0.5	0.0	0.0	0.5	1.8	1.8
155°	1.3	1.3	1.3	1.3	0.5	0.0	0.0	0.0	0.0	0.5	0.5
157.5°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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°	269.8	269.8	269.8	269.8	269.8	269.8	269.8	269.8	269.8	269.8	269.8
2.5°	271.0	269.0	265.3	262.0	258.9	255.2	253.2	251.3	250.1	248.8	248.8
5°	274.7	271.0	264.0	257.1	250.6	245.0	239.9	236.2	234.3	233.0	232.3
7.5°	283.0	277.2	265.9	255.2	245.6	236.8	229.7	224.0	221.0	219.0	218.4
10°	293.7	285.5	271.0	256.3	243.7	232.3	222.9	216.0	211.5	209.6	208.2
12.5°	308.3	298.1	279.3	260.9	244.3	230.4	218.4	210.8	206.4	203.8	203.8
15°	330.4	317.2	293.7	269.0	248.8	231.8	218.4	210.3	207.0	205.7	205.2
17.5°	355.8	340.5	312.2	283.7	257.6	236.2	224.0	219.0	214.7	212.7	212.7
20°	383.7	365.3	332.4	300.0	271.0	248.8	235.5	227.4	222.2	220.4	219.6
22.5°	411.6	392.5	353.9	317.2	284.9	265.3	246.2	236.2	229.7	227.4	226.6
25°	443.1	422.3	376.7	335.5	304.5	282.3	260.1	245.6	237.4	234.3	233.6
27.5°	477.4	452.7	402.0	355.2	323.5	297.6	272.8	253.2	245.0	241.3	240.6
30°	512.8	485.5	427.4	375.4	341.9	310.9	284.9	262.8	252.0	247.6	246.9
32.5°	550.1	517.9	454.5	399.4	359.0	322.9	295.1	271.6	258.4	253.2	253.2
35°	592.0	554.7	481.1	421.7	374.9	334.9	303.8	279.8	264.0	258.9	258.9
37.5°	631.8	591.4	509.7	445.6	389.3	344.4	310.9	287.4	269.8	263.4	263.4
40°	674.3	628.0	536.8	465.3	402.0	352.0	317.2	293.1	274.2	268.5	267.2
42.5°	715.4	664.7	566.0	485.5	412.9	358.3	322.2	298.1	277.9	271.0	270.3
45°	758.4	701.4	593.8	502.1	421.7	362.7	324.7	301.3	282.3	273.5	272.2
47.5°	795.8	736.3	621.1	516.6	428.6	365.3	326.7	303.8	284.9	274.7	273.5
50°	833.2	767.3	643.8	528.7	432.4	366.6	327.3	304.5	286.7	274.7	273.5
52.5°	866.8	796.4	663.5	536.8	434.3	365.9	326.7	304.5	287.4	273.5	272.2
55°	894.5	819.9	677.4	541.9	434.3	364.1	324.7	303.3	286.7	272.2	270.3
57.5°	915.5	835.8	686.9	543.1	431.1	360.2	321.7	301.3	284.9	269.8	267.2
60°	928.0	844.5	690.1	540.1	426.1	355.8	317.8	298.9	283.0	265.9	264.0
62.5°	931.9	845.8	686.9	533.8	419.1	349.5	312.2	294.4	279.3	261.4	259.6
65°	925.6	838.8	678.0	523.5	409.5	341.9	306.4	289.3	274.7	256.3	254.5
67.5°	908.5	823.7	662.2	509.7	398.8	333.0	300.0	283.7	269.8	250.6	246.9
70°	883.2	800.8	642.0	492.5	386.2	323.5	292.5	276.7	262.8	244.3	240.6
72.5°	846.5	769.8	615.3	471.7	371.5	313.4	283.0	268.5	255.2	236.8	231.8
75°	802.1	730.0	583.7	450.1	356.4	301.3	273.5	259.6	246.2	227.9	223.5
77.5°	752.8	688.2	549.6	425.4	338.8	289.3	263.4	250.1	236.2	218.4	212.1
80°	698.9	639.5	512.2	400.1	322.2	276.0	252.0	239.3	225.4	208.2	201.3
82.5°	640.8	588.7	474.8	374.9	303.8	262.8	240.6	227.9	213.3	196.9	189.9
85°	583.7	536.8	435.6	347.6	286.2	248.8	227.9	215.2	201.9	185.0	178.6
87.5°	524.8	484.4	397.0	321.0	268.5	235.5	216.0	202.6	188.6	172.8	167.8
90°	473.5	434.9	360.8	295.6	250.1	221.0	203.2	189.4	176.0	160.7	156.3
92.5°	419.1	387.4	325.5	271.6	233.0	207.0	190.6	177.2	162.8	148.1	144.9
95°	372.3	346.2	293.1	247.6	214.7	193.8	178.0	164.0	149.4	135.5	133.6
97.5°	327.3	305.9	261.4	225.4	198.7	179.8	164.6	151.4	136.2	123.4	122.2
100°	287.4	268.5	233.0	205.2	181.6	166.5	152.6	138.7	123.4	111.4	111.4
102.5°	250.6	236.2	207.7	184.2	166.5	152.0	139.2	125.4	110.1	100.0	100.7
105°	221.0	207.0	183.7	165.8	151.4	138.0	126.0	112.1	97.5	89.3	89.9
107.5°	192.4	181.6	162.8	147.5	136.2	125.4	112.6	99.4	84.8	79.8	80.4
110°	167.8	159.4	144.4	131.7	122.8	112.6	101.2	87.3	74.1	70.8	70.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	146.2	139.2	127.9	117.8	108.9	100.7	88.7	75.9	63.3	62.1	62.1
115°	127.9	122.8	112.1	103.8	97.5	89.3	78.5	65.1	55.1	54.4	55.1
117.5°	112.1	107.6	98.8	91.7	86.1	78.5	68.5	55.8	46.8	47.5	48.1
120°	98.2	95.0	87.3	81.7	75.9	69.0	58.2	46.8	41.1	41.9	41.9
122.5°	86.7	83.5	77.3	71.5	66.5	59.5	50.0	39.3	35.5	36.7	36.7
125°	75.4	73.4	67.2	62.1	57.0	50.0	41.1	32.2	30.5	31.7	31.7
127.5°	65.1	63.9	58.8	53.2	48.1	41.9	33.5	26.6	26.0	27.2	27.2
130°	56.4	55.1	50.7	45.5	39.9	34.1	26.0	21.5	22.2	23.4	24.1
132.5°	48.1	47.5	43.1	37.4	32.2	26.6	20.2	17.7	19.0	20.2	20.2
135°	39.9	39.3	36.1	31.0	25.3	20.2	15.2	14.0	15.8	17.1	17.1
137.5°	32.9	31.7	29.1	24.1	19.0	14.6	10.8	11.4	12.7	14.0	14.0
140°	26.0	25.3	22.7	18.3	13.2	9.5	7.5	8.9	10.8	11.4	11.4
142.5°	19.0	19.0	16.4	12.7	8.3	5.7	5.1	6.4	8.3	8.9	8.9
145°	13.2	13.2	11.4	8.3	5.1	2.5	2.5	4.4	5.7	6.4	6.9
147.5°	8.9	8.3	6.9	5.1	2.5	0.5	1.3	3.1	3.9	4.4	4.4
150°	5.1	5.1	3.9	2.5	1.3	0.0	0.5	1.3	1.8	2.5	3.1
152.5°	1.8	1.8	1.3	0.5	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°	0.5	0.0	0.5	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)