

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: P266409

Luminaire Tested: **UTLD-AF24-60-D-U-T2U-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-28)
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-T2U-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4875 lumens
Efficiency: N/A
Efficacy: 76.2 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: B2 - 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

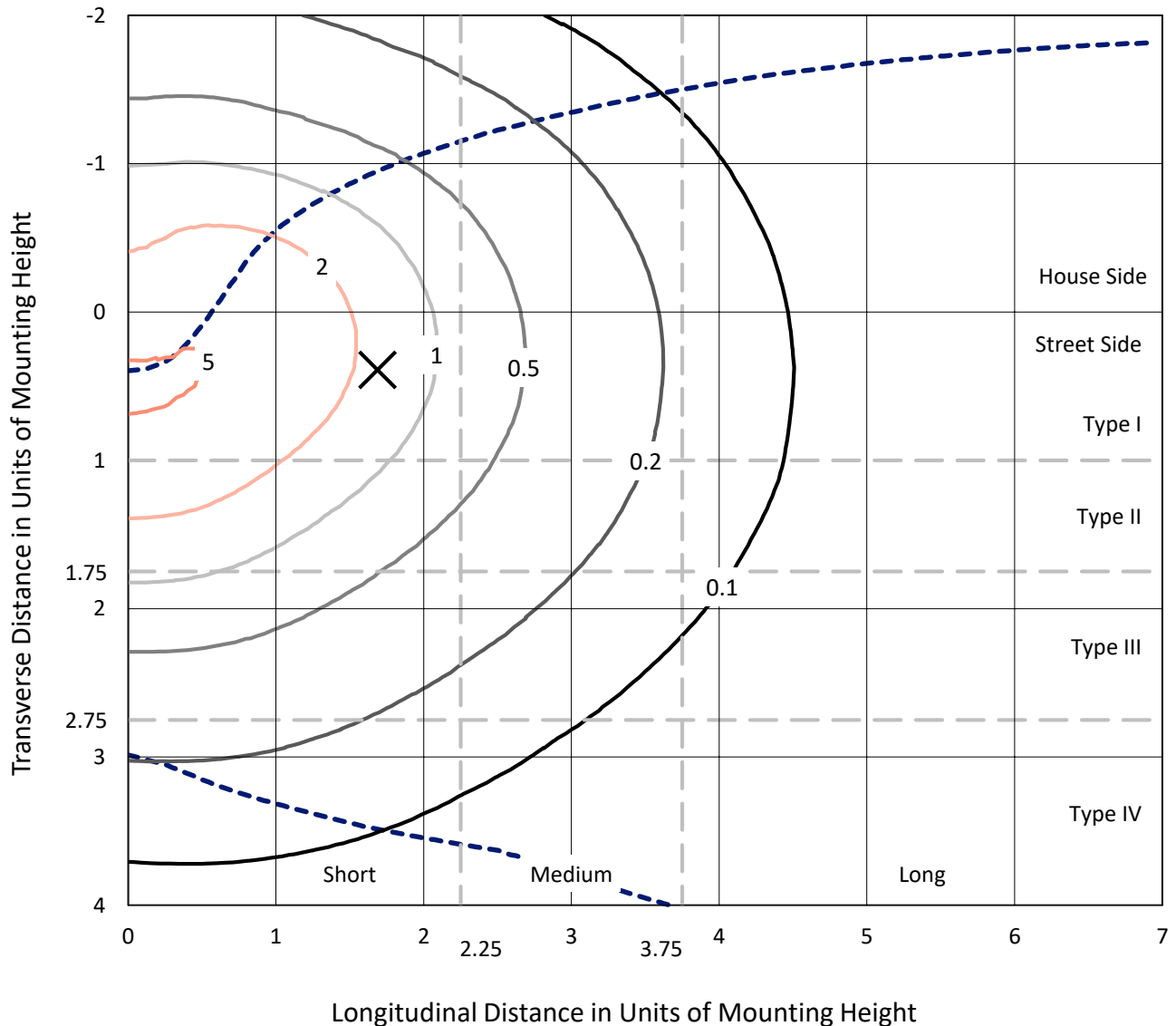


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Iso-Footcandle Lines of Horizontal Illumination

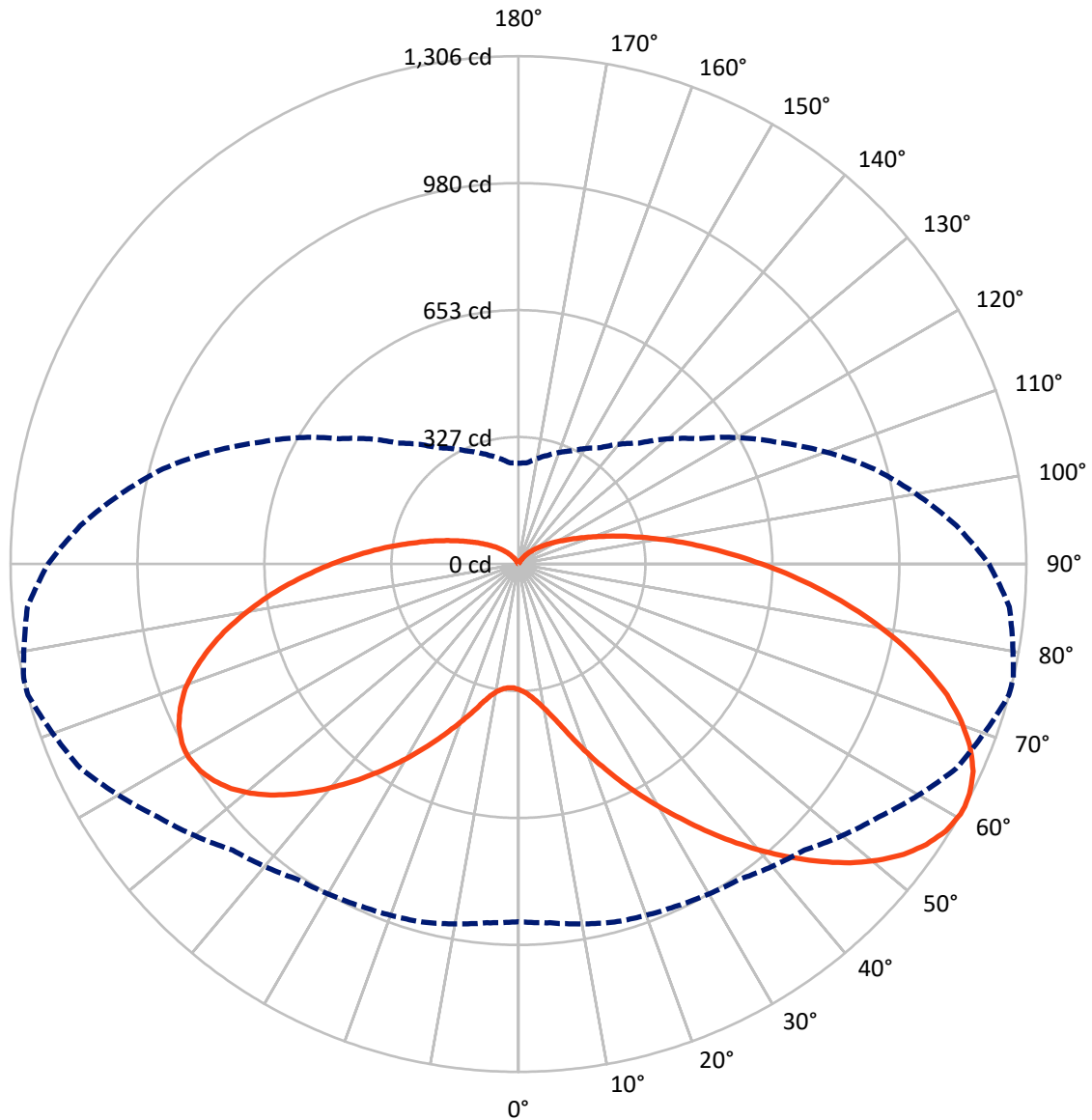
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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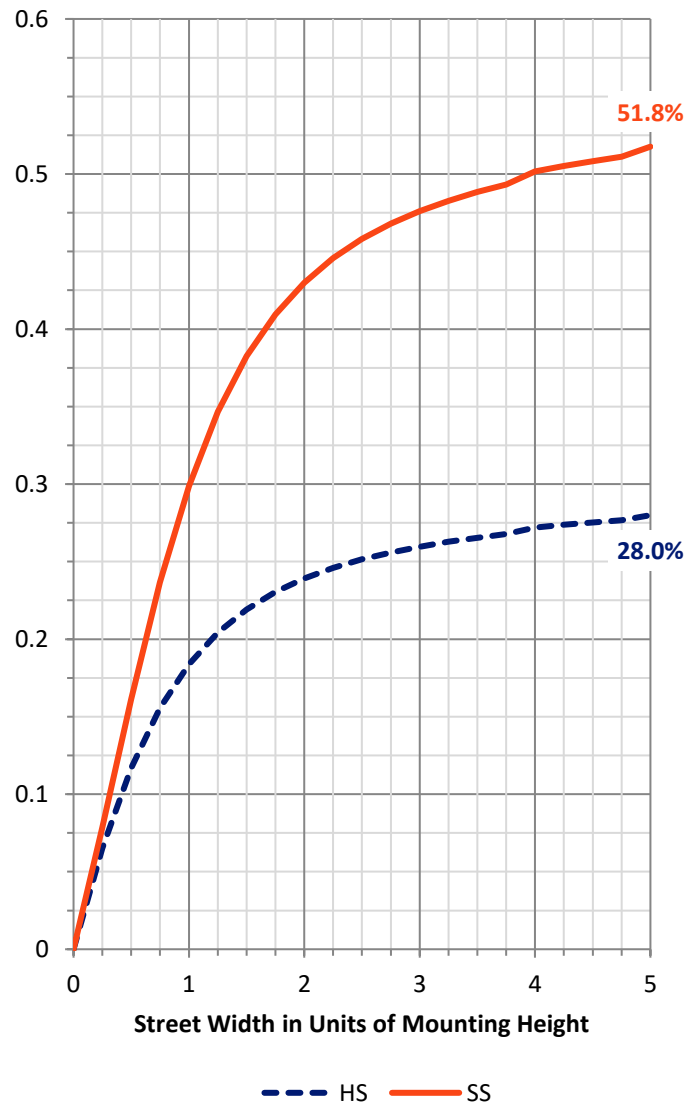
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1449.7	311.4	1761.1
	% Fixture	29.7	6.4	36.1
Street Side	Lumens	2674.4	439.5	3113.9
	% Fixture	54.9	9.0	63.9
Total	Lumens	4124.2	750.8	4875.0
	% Fixture	84.6	15.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.2	0.7
10°-20°	113.5	2.3
20°-30°	243.3	5.0
30°-40°	419.3	8.6
40°-50°	608.8	12.5
50°-60°	749.2	15.4
60°-70°	776.3	15.9
70°-80°	676.9	13.9
80°-90°	504.5	10.3
90°-100°	333.5	6.8
100°-110°	203.6	4.2
110°-120°	116.6	2.4
120°-130°	61.6	1.3
130°-140°	27.3	0.6
140°-150°	7.6	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4124.2	84.6
0°-180°	4875.0	100.0



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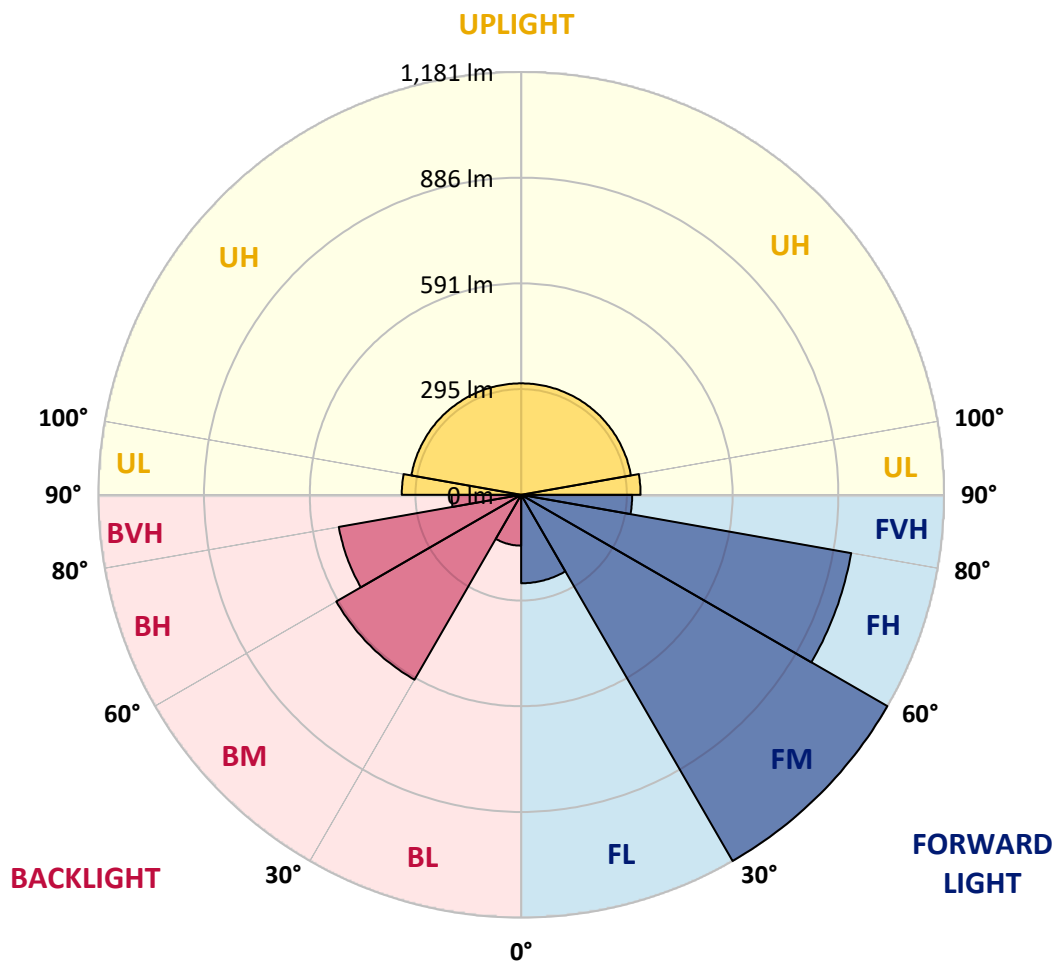
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	247.0	5.1			
FM	(30°-60°)	1181.1	24.2			
FH	(60°-80°)	936.2	19.2			G1/1800
FVH	(80°-90°)	310.1	6.4			G3/500
BL	(0°-30°)	142.0	2.9	B1/500		
BM	(30°-60°)	596.3	12.2	B1/1000		
BH	(60°-80°)	517.1	10.6	B2/1000		G2/1000
BVH	(80°-90°)	194.4	4.0			G2/225
UL	(90°-100°)	333.5	6.8		U3/500	
UH	(100°-180°)	311.4	6.4		U3/500	

BUG Rating: B2-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	323.6	323.6	323.6	323.6	323.6	323.6	323.6	323.6	323.6	323.6	323.6
2.5°	351.4	351.4	350.2	349.5	346.9	343.8	340.6	336.2	331.8	330.5	328.1
5°	381.8	381.8	380.5	377.4	372.9	367.2	360.3	353.4	344.5	342.6	335.5
7.5°	416.1	414.7	411.7	408.4	402.1	393.8	384.4	373.5	361.6	359.1	348.9
10°	450.2	450.2	447.0	442.0	434.4	423.6	412.2	398.9	383.0	380.0	366.6
12.5°	489.4	488.1	483.2	479.3	470.5	458.5	445.7	429.3	410.3	407.1	390.0
15°	531.3	530.5	526.1	518.0	507.8	496.5	483.2	465.4	445.2	440.1	421.0
17.5°	578.1	574.3	571.9	563.0	552.2	537.5	527.5	509.1	486.9	481.2	457.9
20°	621.2	621.8	616.1	608.5	598.5	588.3	573.7	557.2	533.1	525.6	499.0
22.5°	670.0	670.0	664.2	656.7	646.5	641.5	625.0	608.0	578.8	573.1	543.4
25°	720.6	718.7	713.1	706.1	700.9	694.6	679.5	659.1	629.4	623.8	590.1
27.5°	767.4	768.1	761.1	755.5	754.8	746.5	733.8	712.4	683.9	675.6	639.6
30°	815.7	816.2	811.2	804.3	804.8	799.8	789.0	766.9	739.7	730.1	691.4
32.5°	863.7	862.5	855.5	854.8	852.9	849.2	841.0	827.0	797.2	787.0	747.2
35°	906.7	906.7	899.8	902.3	898.6	897.9	895.4	884.7	858.1	847.9	804.8
37.5°	946.6	946.0	942.2	942.9	940.3	939.6	944.1	942.9	918.2	910.0	865.5
40°	983.4	979.6	976.4	979.0	976.4	980.2	991.0	998.6	977.6	971.3	926.4
42.5°	1008.6	1007.4	1006.2	1010.7	1006.8	1015.7	1032.8	1051.1	1038.5	1032.2	987.1
45°	1029.0	1026.5	1029.0	1033.4	1030.8	1042.3	1072.7	1100.6	1100.6	1091.7	1045.4
47.5°	1037.3	1036.6	1042.9	1046.7	1045.4	1063.9	1104.3	1146.7	1155.6	1148.7	1101.9
50°	1035.2	1035.2	1045.4	1051.1	1052.5	1076.4	1127.7	1183.4	1203.8	1198.1	1151.8
52.5°	1023.3	1023.3	1038.5	1045.4	1050.5	1080.9	1143.6	1214.5	1244.2	1241.1	1194.8
55°	1000.5	999.9	1019.4	1028.3	1039.1	1076.4	1149.9	1234.8	1276.0	1273.3	1231.5
57.5°	965.0	966.2	990.3	1004.2	1018.1	1062.5	1146.7	1245.0	1297.4	1296.3	1255.0
60°	920.0	926.4	953.6	969.5	990.3	1040.3	1133.4	1243.1	1305.6	1306.3	1267.7
61°	901.1	907.4	935.2	954.3	976.4	1029.5	1125.8	1239.2	1305.1	1306.3	1268.9
62.5°	870.6	874.5	907.4	930.1	954.3	1010.0	1110.7	1229.2	1300.7	1302.5	1267.1
65°	813.7	820.6	854.2	882.8	911.2	972.0	1077.7	1203.1	1282.3	1285.5	1252.4
67.5°	751.1	759.2	797.9	830.8	863.7	928.3	1037.3	1165.7	1249.4	1253.1	1224.6
70°	688.9	699.2	739.7	772.5	813.1	879.5	987.9	1117.6	1204.4	1208.2	1183.4
72.5°	625.6	637.0	678.8	716.8	758.0	825.7	932.7	1060.5	1148.0	1153.1	1130.2
75°	562.2	576.8	616.1	659.9	700.9	770.7	875.8	999.9	1079.0	1084.1	1066.4
77.5°	505.2	518.0	556.6	602.3	647.1	713.7	813.7	927.7	1010.0	1012.5	996.7
80°	447.6	461.0	502.8	545.8	593.3	657.3	749.7	854.8	926.4	933.3	916.9
82.5°	396.4	409.6	449.0	495.9	541.4	602.9	684.5	780.1	843.5	851.1	839.6
85°	353.4	362.8	401.5	446.4	490.7	549.0	627.6	710.5	767.4	768.7	757.4
87.5°	310.3	320.4	357.2	400.9	445.7	499.0	566.1	637.6	683.9	688.3	677.0
90°	274.8	281.2	315.9	359.1	402.7	451.5	509.8	573.1	610.4	610.4	601.5
92.5°	243.8	246.9	281.8	322.9	364.7	406.6	457.9	506.6	538.9	538.3	528.2
95°	215.4	219.0	248.2	288.0	328.6	367.2	409.1	447.6	471.7	473.0	461.0
97.5°	189.9	192.4	219.7	259.0	295.1	331.1	366.0	397.1	412.9	413.5	404.6
100°	169.7	169.7	195.7	230.4	265.3	297.6	327.3	350.8	357.7	357.2	349.5
102.5°	152.0	150.6	172.8	206.4	238.7	266.5	290.6	305.9	311.5	309.6	304.5
105°	134.8	136.2	153.3	185.0	214.1	238.7	257.1	269.8	269.8	268.5	263.5
107.5°	122.2	121.6	134.8	164.0	191.9	213.3	228.0	234.3	232.4	230.4	227.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	109.6	109.6	119.7	147.0	170.9	190.6	200.7	204.5	198.9	198.2	197.5
112.5°	98.8	98.8	107.0	129.8	152.6	169.2	177.2	178.0	171.5	170.9	171.5
115°	90.5	90.5	95.0	115.3	136.2	150.6	157.7	154.5	148.2	147.5	149.5
117.5°	82.4	82.4	86.1	100.7	120.4	133.6	138.0	133.6	127.9	127.9	130.4
120°	75.4	75.4	76.6	88.0	105.7	117.1	120.4	115.3	110.9	110.9	113.4
122.5°	69.0	68.5	69.0	76.6	91.2	102.0	103.2	98.8	95.6	96.3	100.0
125°	62.7	62.7	62.1	66.5	78.5	87.3	88.7	83.6	83.6	83.6	86.7
127.5°	57.0	57.0	55.8	57.6	66.5	74.1	74.1	70.2	71.5	72.9	75.4
130°	51.9	51.9	50.7	50.7	55.1	61.4	61.4	58.8	62.1	62.7	65.2
132.5°	46.8	46.3	44.9	43.1	44.9	48.8	48.8	48.1	53.2	53.8	55.8
135°	41.9	41.1	39.9	36.7	36.1	37.4	37.4	39.3	44.3	44.9	47.5
137.5°	36.1	36.1	34.1	31.0	27.2	27.2	27.2	31.0	36.1	37.4	38.6
140°	31.0	31.0	29.1	25.3	20.2	18.3	19.0	24.1	29.1	29.7	31.0
142.5°	25.3	25.3	23.4	19.7	14.6	10.8	12.0	17.1	21.5	22.7	24.1
145°	19.7	19.7	17.7	14.0	8.9	5.7	6.9	12.0	15.2	15.8	17.1
147.5°	14.6	14.6	12.7	9.5	5.1	1.8	3.9	6.9	10.2	10.8	12.0
150°	9.5	9.5	8.3	5.1	2.5	0.0	1.3	3.9	5.7	6.4	6.9
152.5°	5.1	5.1	3.9	2.5	0.5	0.0	0.0	1.3	2.5	2.5	3.1
155°	2.5	1.8	1.3	0.5	0.0	0.0	0.0	0.0	0.5	0.5	1.3
157.5°	0.5	0.5	0.5	0.0	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°	0.5	0.5	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°	323.6	323.6	323.6	323.6	323.6	323.6	323.6	323.6	323.6	323.6	323.6
2.5°	325.5	322.9	317.9	314.0	309.6	305.9	302.6	300.2	299.6	297.6	298.2
5°	331.1	326.8	317.2	308.9	300.2	292.6	286.2	281.8	278.7	277.3	276.0
7.5°	342.0	334.3	320.4	307.1	294.5	283.1	272.9	266.5	261.5	259.0	259.0
10°	357.2	347.6	328.1	310.3	292.6	277.3	264.7	254.6	248.2	245.1	245.6
12.5°	378.0	365.4	341.3	317.2	295.7	276.0	259.0	248.2	240.7	236.9	236.9
15°	407.8	393.8	361.6	330.5	301.4	277.3	259.0	246.9	241.3	238.7	238.1
17.5°	443.9	425.5	388.7	351.4	314.6	284.9	266.5	255.2	246.9	243.8	243.1
20°	480.7	459.8	416.6	374.9	333.7	301.4	279.3	264.0	253.3	248.8	248.2
22.5°	522.5	498.3	447.6	398.3	353.9	322.9	291.9	272.2	259.6	254.0	253.3
25°	565.5	538.9	481.9	426.2	381.2	343.8	307.7	280.5	265.3	258.4	257.8
27.5°	611.0	582.6	517.3	454.1	407.1	363.5	322.3	288.0	270.4	262.8	262.1
30°	661.7	627.6	556.1	486.3	433.2	381.8	336.2	297.0	275.4	266.5	265.3
32.5°	714.2	676.2	595.2	520.5	457.1	398.3	347.6	306.5	280.5	270.4	269.8
35°	769.4	726.9	635.7	554.1	478.6	412.9	357.7	314.6	284.4	273.5	272.2
37.5°	827.0	780.1	678.2	585.8	499.5	425.5	366.0	321.7	288.0	275.4	274.3
40°	884.7	830.8	720.0	618.0	518.6	436.2	372.9	326.8	290.6	277.3	276.0
42.5°	940.3	885.2	762.4	647.8	535.1	444.5	378.0	331.1	293.1	278.7	276.7
45°	994.9	937.1	802.9	673.1	549.0	450.9	381.2	333.7	296.4	278.7	276.7
47.5°	1049.2	985.9	842.8	695.3	559.1	455.4	382.5	335.0	298.2	277.9	276.0
50°	1098.6	1029.5	877.0	715.0	566.7	456.6	381.8	334.3	298.9	276.7	274.3
52.5°	1139.1	1068.3	905.5	728.9	571.1	455.9	380.0	333.1	298.2	274.3	272.2
55°	1173.9	1098.0	926.4	737.7	571.1	452.7	376.7	330.5	295.7	271.0	268.5
57.5°	1196.8	1120.1	940.3	741.6	568.6	447.0	371.1	326.2	293.1	266.5	264.0
60°	1210.0	1131.0	946.0	738.9	561.7	439.5	364.7	321.1	289.3	261.5	259.0
61°	1211.4	1132.3	946.0	736.4	558.4	436.2	362.1	319.2	287.5	259.6	256.5
62.5°	1210.0	1131.0	942.9	730.7	552.2	430.6	357.2	314.6	283.7	255.2	253.3
65°	1197.4	1118.8	930.1	716.2	538.3	419.1	348.3	307.7	277.3	248.8	245.6
67.5°	1170.2	1094.9	907.4	695.8	521.7	405.9	338.1	299.6	270.4	241.3	237.4
70°	1131.0	1059.5	878.9	672.6	503.4	391.3	326.8	290.1	261.5	233.6	228.6
72.5°	1082.2	1016.3	838.9	642.6	481.9	376.1	314.6	279.9	252.1	224.8	218.5
75°	1021.4	961.2	794.7	609.8	457.9	358.5	302.0	268.5	241.3	215.4	208.3
77.5°	954.3	900.5	746.5	573.7	433.7	341.3	288.0	255.7	229.8	204.5	197.5
80°	880.8	833.9	692.1	535.7	408.4	323.6	274.3	243.8	218.5	193.8	185.5
82.5°	805.4	763.6	637.6	497.1	381.2	305.2	259.0	230.4	205.8	182.4	173.6
85°	728.9	692.8	582.6	457.1	353.9	286.9	245.1	217.2	192.4	170.3	162.8
87.5°	652.9	621.8	526.1	419.1	329.3	269.1	230.4	203.8	179.8	158.3	150.6
90°	581.9	555.3	474.2	383.8	304.5	250.7	216.0	190.6	167.2	145.6	140.6
92.5°	514.8	492.0	424.3	346.3	279.9	233.0	201.4	176.6	153.3	133.6	130.4
95°	454.1	432.4	378.6	313.5	257.1	217.2	187.4	164.0	140.6	122.2	119.7
97.5°	394.4	381.2	336.2	281.8	234.9	200.1	173.6	151.4	128.5	111.4	110.2
100°	345.0	331.1	295.1	252.7	214.7	185.0	160.2	138.7	117.1	101.2	100.7
102.5°	300.2	290.6	260.2	228.0	195.0	168.4	147.0	126.7	105.7	91.7	91.7
105°	262.1	253.3	230.4	202.7	176.1	154.5	133.6	113.9	94.3	82.4	83.0
107.5°	226.1	220.4	201.4	179.2	158.3	140.0	120.9	102.0	83.0	73.4	74.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	196.9	191.2	176.6	160.2	142.6	126.7	109.0	90.5	72.1	66.5	66.5
112.5°	170.9	167.2	155.1	141.8	127.9	113.9	98.2	79.8	63.3	58.8	59.5
115°	149.5	146.2	136.2	126.0	114.7	102.5	87.3	69.7	55.1	53.2	53.2
117.5°	129.8	127.9	119.7	110.9	102.0	91.2	77.3	60.1	47.5	47.5	47.5
120°	113.4	111.4	105.1	97.6	89.9	80.4	66.5	51.4	41.9	41.9	42.4
122.5°	99.4	98.2	91.7	86.1	79.1	69.7	57.0	43.1	36.7	37.4	37.4
125°	86.7	85.5	81.0	74.6	68.5	59.5	48.1	35.5	31.7	32.9	32.9
127.5°	75.4	74.6	70.2	64.6	58.3	50.7	39.3	29.7	27.8	29.1	29.1
130°	65.8	65.2	60.7	55.1	49.3	41.1	31.7	24.8	24.1	25.3	25.3
132.5°	56.4	55.8	51.9	46.3	40.6	32.9	24.8	19.7	20.9	22.2	22.2
135°	47.5	46.8	44.3	38.0	32.9	26.1	19.0	16.4	17.7	19.0	19.0
137.5°	39.3	38.6	36.1	30.5	24.8	19.0	14.0	13.2	14.6	15.8	15.8
140°	31.7	31.0	28.4	23.4	17.7	13.2	9.5	10.8	12.0	13.2	13.2
142.5°	24.1	24.1	22.2	17.7	12.0	8.3	6.4	8.3	9.5	10.8	10.8
145°	17.7	17.7	15.2	12.0	6.9	4.4	3.9	5.7	7.5	8.3	8.3
147.5°	12.0	12.0	10.2	7.5	3.9	1.8	2.5	3.9	5.1	5.7	6.4
150°	6.9	6.9	5.7	3.9	1.8	0.5	0.5	2.5	3.1	3.9	3.9
152.5°	3.1	3.1	2.5	1.3	0.5	0.5	0.5	0.5	1.8	1.8	1.8
155°	1.3	1.3	1.3	0.5	0.5	0.5	0.5	0.0	0.5	0.5	0.5
157.5°	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.5	0.5	0.5	0.5	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)