

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: P266315

Luminaire Tested: **UTLD-AF24-30-D-U-T3-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-30)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-30-D-U-T3-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2676.5 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U3 - G2

Input Watts (W): 31
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

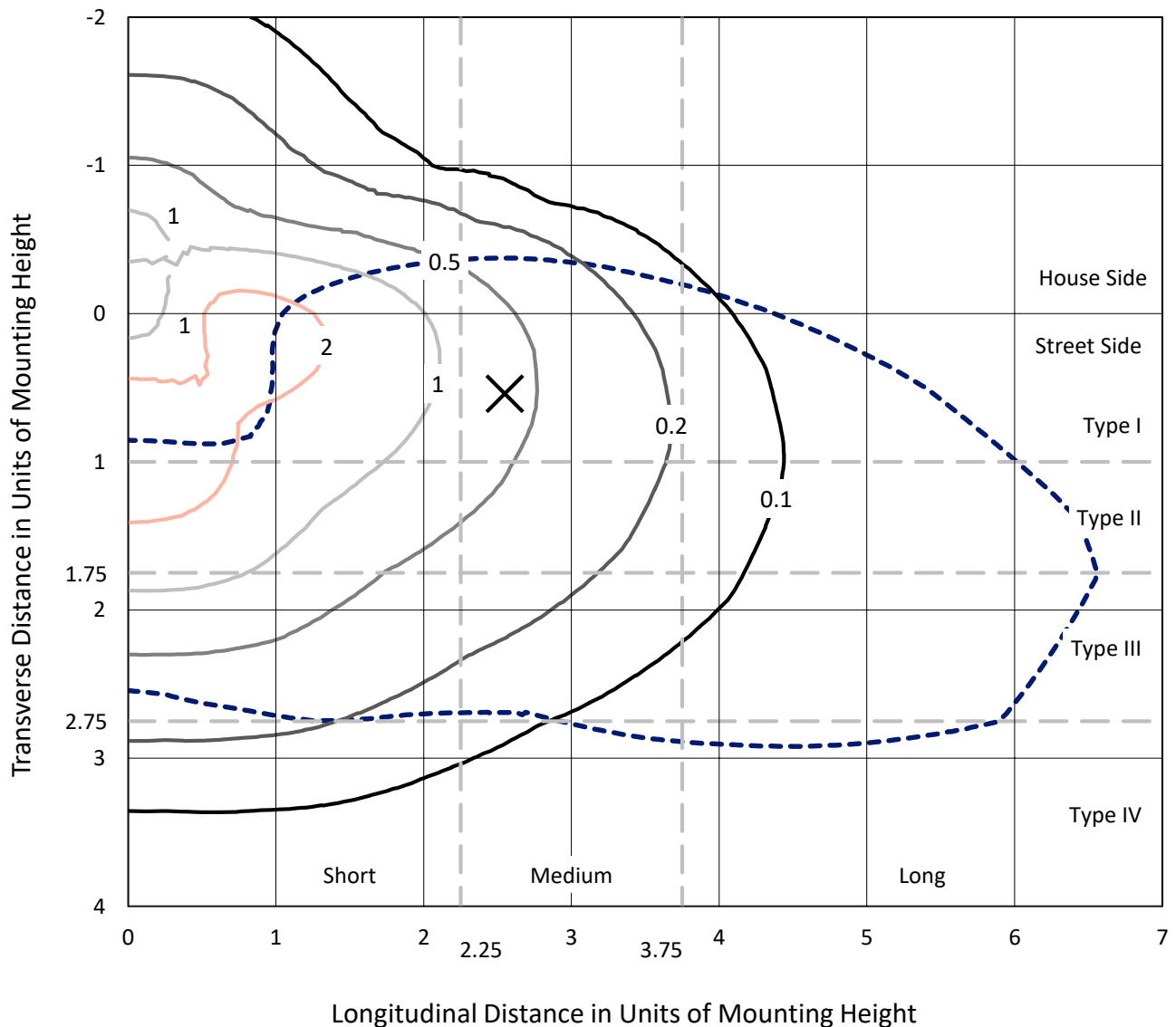


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

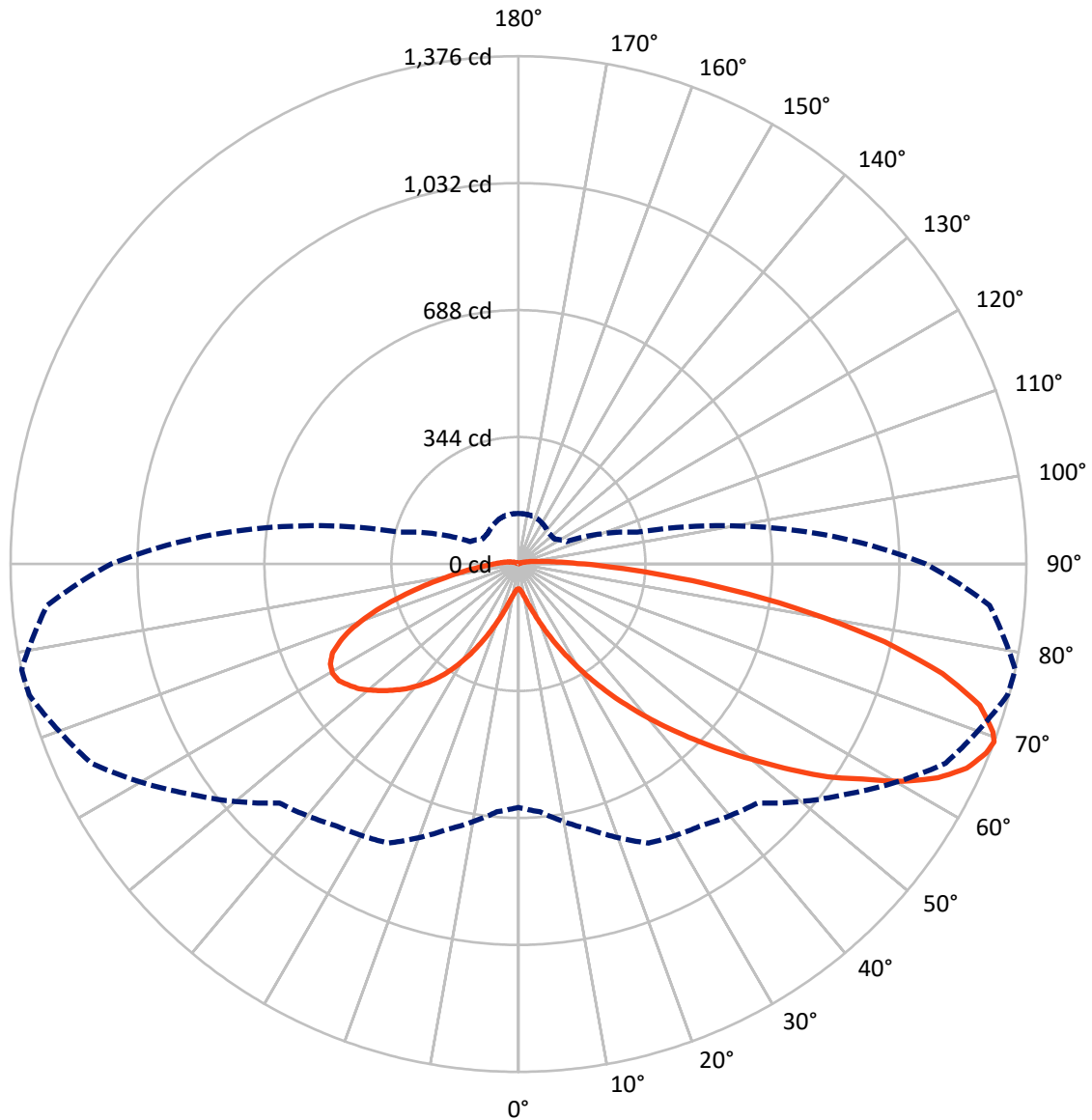


Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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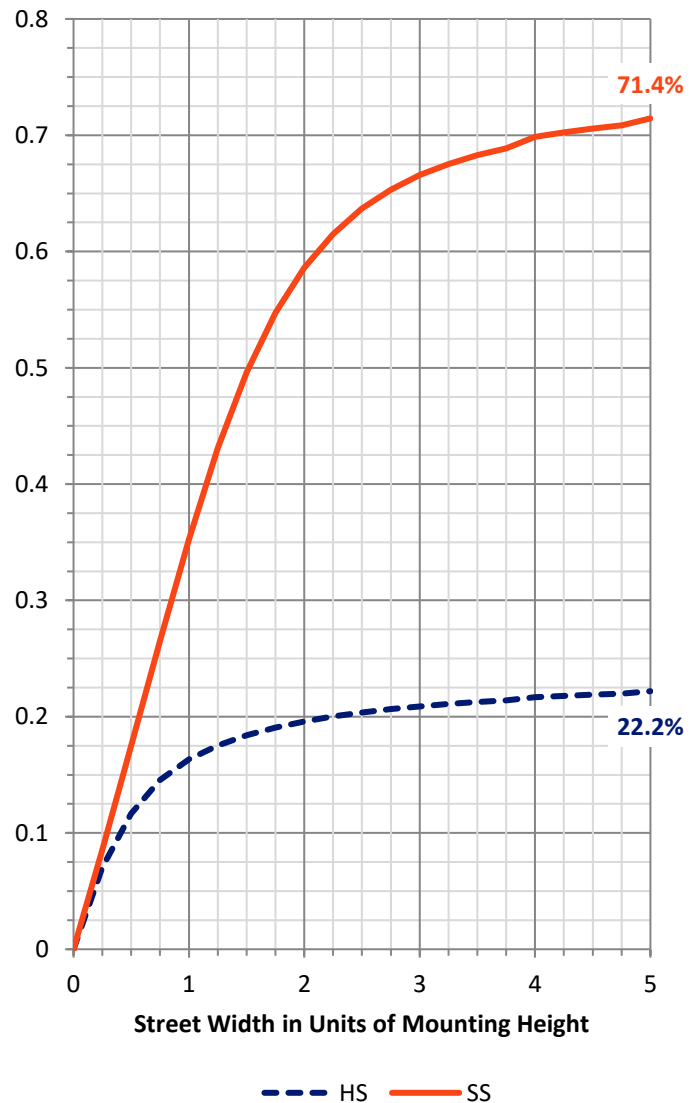
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	621.7	46.7	668.5
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	1956.7	51.3	2008.0
	% Fixture	73.1	1.9	75.0
Total	Lumens	2578.4	98.0	2676.5
	% Fixture	96.3	3.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.4	0.3
10°-20°	34.4	1.3
20°-30°	98.1	3.7
30°-40°	208.4	7.8
40°-50°	361.3	13.5
50°-60°	540.9	20.2
60°-70°	643.9	24.1
70°-80°	491.1	18.3
80°-90°	192.9	7.2
90°-100°	56.6	2.1
100°-110°	22.9	0.9
110°-120°	10.3	0.4
120°-130°	5.0	0.2
130°-140°	2.4	0.1
140°-150°	0.7	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2578.4	96.3
0°-180°	2676.5	100.0



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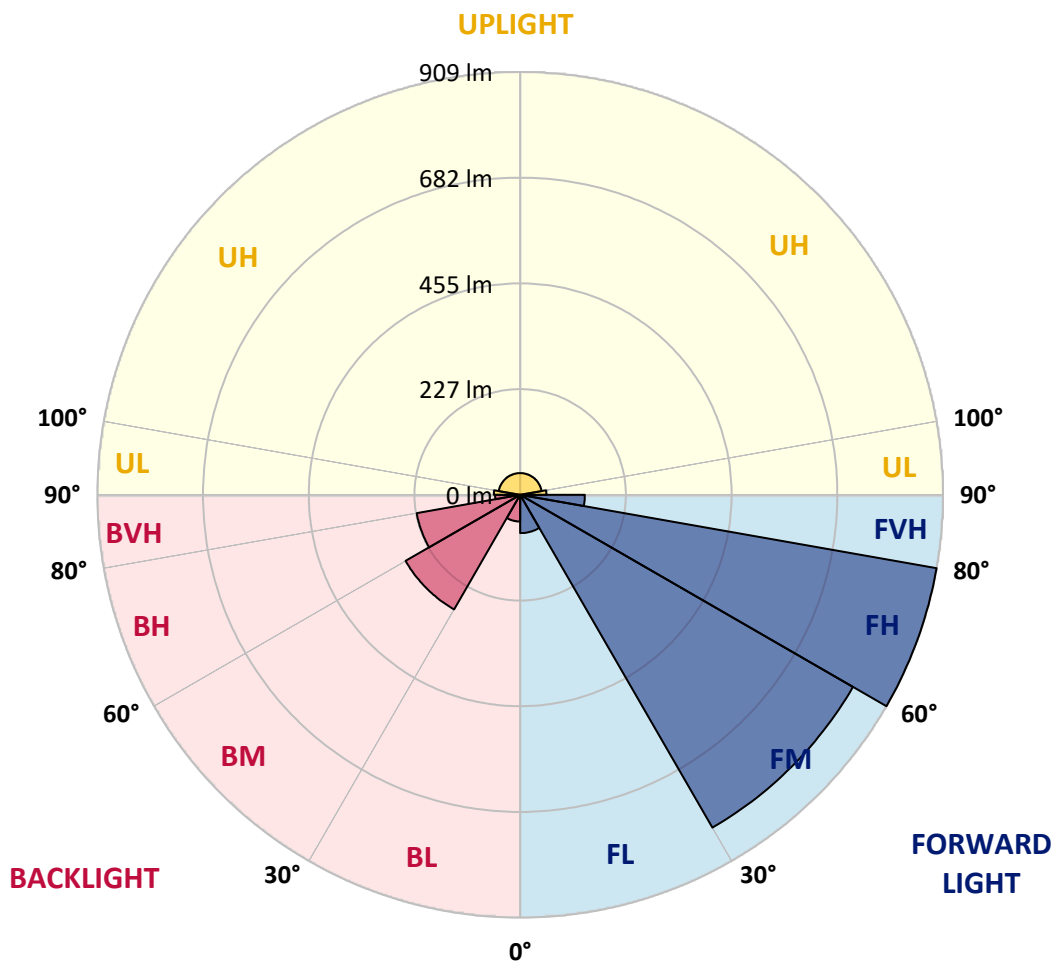
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	82.4	3.1			
FM	(30°-60°)	826.2	30.9			
FH	(60°-80°)	909.1	34.0			G1/1800
FVH	(80°-90°)	139.0	5.2			G2/225
BL	(0°-30°)	57.5	2.1	B0/110		
BM	(30°-60°)	284.5	10.6	B1/1000		
BH	(60°-80°)	225.8	8.4	B1/500		G1/500
BVH	(80°-90°)	53.9	2.0			G1/100
UL	(90°-100°)	56.6	2.1		U3/500	
UH	(100°-180°)	46.7	1.7		U2/50	

BUG Rating: B1-U3-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
2.5°	72.7	72.7	72.4	72.4	72.0	71.2	70.2	69.6	69.3	69.3	68.6
5°	80.8	80.8	80.0	80.0	79.1	78.1	76.7	75.0	74.0	73.8	72.7
7.5°	91.5	91.3	90.9	89.9	88.8	86.9	85.2	83.5	81.4	81.0	79.7
10°	105.5	104.7	104.7	103.3	101.4	99.1	95.9	93.7	91.5	91.3	89.9
12.5°	123.6	123.0	122.0	119.3	116.2	112.5	109.9	107.4	105.5	104.7	103.0
15°	145.3	144.9	142.2	138.9	133.5	128.7	125.8	123.6	123.0	122.3	120.6
17.5°	172.4	170.7	168.0	161.2	154.1	147.3	144.6	144.9	145.3	145.3	144.0
20°	202.4	201.7	197.6	188.6	178.8	170.3	168.0	170.0	172.7	172.7	172.4
22.5°	242.0	239.8	232.5	219.6	205.8	197.4	193.9	198.3	205.8	206.2	207.5
25°	285.2	284.6	272.6	253.9	236.3	226.1	223.7	229.1	242.6	243.6	247.4
27.5°	333.2	331.5	320.6	293.9	271.0	256.1	255.1	266.9	281.4	286.5	291.9
30°	391.3	389.7	369.1	338.2	310.2	290.6	291.0	306.1	328.4	332.8	340.5
32.5°	451.5	449.7	428.4	390.0	352.8	328.4	329.0	351.7	377.5	382.9	391.3
35°	520.7	519.9	492.0	444.8	397.7	368.3	373.3	397.4	429.1	438.0	445.4
37.5°	595.8	588.3	560.9	505.8	447.0	414.9	418.7	450.8	488.3	492.4	499.7
40°	671.0	669.3	636.5	574.7	503.8	464.0	469.0	505.1	545.7	553.1	557.2
42.5°	750.4	749.8	711.3	643.7	562.6	518.1	522.8	564.0	609.2	616.3	618.4
45°	835.0	830.3	792.0	716.4	630.5	575.5	583.9	626.5	679.8	685.5	686.7
47.5°	907.6	901.4	872.9	794.1	696.7	637.6	644.1	697.1	753.1	759.2	756.9
50°	973.1	970.4	941.5	871.7	769.4	700.5	709.7	767.4	830.6	837.9	835.7
52.5°	1016.1	1014.4	1002.6	935.3	833.3	764.6	777.6	840.4	915.1	925.9	913.3
55°	1037.4	1037.4	1039.7	991.1	891.7	825.5	845.5	921.5	1002.9	1018.0	1000.5
57.5°	1035.7	1033.7	1053.3	1029.3	936.7	874.5	913.3	1007.5	1093.1	1099.2	1090.1
60°	997.2	1003.5	1038.0	1042.5	968.7	918.1	978.3	1087.4	1179.3	1195.6	1167.7
62.5°	935.7	947.8	998.1	1027.2	977.5	949.1	1033.9	1157.3	1259.3	1276.0	1236.3
65°	850.9	863.4	925.2	981.3	960.0	959.7	1072.1	1221.2	1323.3	1335.1	1282.1
67.5°	744.3	748.5	819.8	900.6	910.3	943.8	1090.5	1265.2	1369.6	1367.5	1298.2
69°	659.5	674.1	744.3	834.6	865.1	916.0	1086.9	1277.3	1372.3	1376.4	1282.1
70°	616.6	619.4	688.6	780.2	833.3	891.1	1075.5	1274.5	1367.8	1364.7	1263.5
72.5°	478.7	484.2	547.7	647.4	720.7	807.9	1019.0	1228.9	1314.8	1307.0	1167.7
75°	341.6	350.8	409.2	502.8	589.6	699.5	915.1	1131.0	1205.6	1187.6	1030.3
77.5°	233.2	242.6	286.2	372.1	458.6	578.1	771.7	982.7	1033.9	1015.4	842.0
80°	149.7	156.1	190.6	258.5	340.9	444.0	614.6	787.4	832.9	799.9	643.7
82.5°	99.1	103.0	127.0	175.0	238.6	327.4	455.8	588.3	608.5	587.6	451.0
85°	67.0	69.6	86.9	118.9	167.3	230.4	322.8	409.2	425.7	396.7	300.8
87.5°	46.0	48.7	62.5	83.2	116.2	160.8	216.2	275.1	270.0	256.5	196.3
90°	32.8	35.2	44.9	59.1	82.1	111.8	144.3	174.0	173.4	160.2	125.4
92.5°	23.6	25.7	34.1	44.2	60.8	78.4	97.3	109.5	109.5	104.1	83.2
95°	17.8	19.3	26.1	33.7	45.6	58.1	67.9	74.3	73.0	68.9	60.1
97.5°	14.3	15.2	20.7	27.4	36.1	44.9	50.7	51.4	50.3	49.0	44.6
100°	11.8	12.4	17.2	22.9	30.1	36.6	39.2	38.2	36.8	36.6	34.1
102.5°	10.2	10.5	14.8	19.9	25.7	30.5	31.4	29.7	28.0	27.7	26.7
105°	9.2	9.2	12.8	17.2	22.0	25.3	26.1	24.0	21.6	20.9	20.7
107.5°	8.2	8.4	11.1	15.2	19.0	21.6	21.6	19.3	16.6	15.9	15.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	7.5	7.5	9.8	13.6	16.6	18.5	18.2	15.5	12.8	12.1	12.4
112.5°	6.7	6.7	8.9	11.8	14.6	15.9	15.2	12.4	10.2	9.8	9.8
115°	6.4	6.4	7.7	10.5	12.4	13.6	12.8	10.2	8.2	7.7	8.2
117.5°	5.7	6.1	7.0	9.2	10.8	11.8	10.8	8.4	6.7	6.4	7.0
120°	5.4	5.7	6.4	7.7	9.4	10.2	8.9	7.0	5.7	5.7	6.1
122.5°	5.1	5.4	5.7	7.0	8.2	8.4	7.5	5.7	4.8	5.1	5.4
125°	5.1	5.1	5.4	6.1	7.0	7.0	6.1	4.8	4.4	4.4	4.8
127.5°	4.8	4.8	4.8	5.4	6.1	6.1	5.1	4.0	3.8	4.0	4.4
130°	4.4	4.4	4.4	4.8	5.1	5.1	4.4	3.4	3.4	3.4	3.8
132.5°	4.0	4.0	4.0	4.0	4.4	4.0	3.4	2.8	3.1	3.1	3.4
135°	3.8	3.8	3.8	3.8	3.4	3.1	2.3	2.3	2.8	2.8	3.1
137.5°	3.4	3.4	3.4	3.1	2.8	2.3	2.1	2.1	2.3	2.3	2.8
140°	3.1	3.1	3.1	2.3	2.1	1.6	1.3	1.3	2.1	2.1	2.1
142.5°	2.8	2.8	2.3	2.1	1.6	1.0	0.7	1.0	1.3	1.3	1.6
145°	2.1	2.1	2.1	1.6	1.0	0.7	0.3	0.7	1.0	1.0	1.3
147.5°	1.6	1.6	1.6	1.3	0.7	0.3	0.3	0.3	0.7	0.7	1.0
150°	1.3	1.3	1.0	1.0	0.3	0.0	0.0	0.3	0.3	0.7	0.7
152.5°	1.0	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.3	0.3	0.3
155°	0.7	0.7	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3
157.5°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.3	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°	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
2.5°	68.2	67.9	67.6	67.0	66.6	65.8	65.1	64.6	64.6	64.6	64.1
5°	72.4	71.7	70.6	69.3	68.2	67.3	66.3	65.1	64.9	64.6	64.6
7.5°	78.7	78.1	76.0	74.3	72.4	71.0	69.3	68.6	67.9	67.6	67.6
10°	88.6	87.1	84.5	81.7	79.4	76.7	75.0	74.0	73.0	72.7	73.0
12.5°	101.7	99.4	95.9	91.8	87.9	84.5	82.5	81.4	81.0	80.8	80.8
15°	120.0	118.2	111.5	104.5	98.6	94.0	91.3	90.2	92.3	93.0	93.0
17.5°	143.5	140.6	132.5	122.7	110.9	103.8	101.7	103.3	105.1	107.1	107.4
20°	173.1	168.0	157.5	141.7	125.8	115.5	113.8	115.9	120.0	122.7	123.0
22.5°	205.2	201.7	185.5	161.9	140.6	128.7	125.0	128.1	134.4	138.2	138.6
25°	246.3	240.9	216.6	184.2	156.1	139.5	135.1	139.5	147.3	153.2	153.4
27.5°	291.3	282.8	251.0	206.5	169.3	148.7	143.3	148.9	159.4	166.2	166.9
30°	337.9	326.1	285.2	227.5	181.1	154.8	148.9	156.1	168.0	175.7	176.7
32.5°	386.9	372.6	316.7	245.6	189.0	158.1	152.1	160.4	173.1	181.1	182.1
35°	436.9	419.0	345.9	258.8	192.5	158.8	152.4	161.9	174.0	182.4	183.4
37.5°	489.7	463.3	371.7	268.0	193.2	156.8	151.1	160.4	171.9	179.8	180.4
40°	540.6	506.6	393.3	271.9	190.9	153.7	147.7	157.5	167.3	173.1	173.7
42.5°	596.7	553.1	412.2	271.9	186.2	150.0	144.0	153.2	160.8	164.8	165.3
45°	653.8	599.8	427.1	268.7	180.1	145.3	140.2	148.3	154.4	156.1	156.1
47.5°	719.7	648.8	441.0	262.8	173.4	140.6	136.5	144.0	148.3	148.3	148.7
50°	785.9	700.0	451.5	254.8	165.6	136.5	133.5	140.6	144.0	141.9	141.9
52.5°	857.6	752.9	461.2	244.2	158.6	132.8	131.4	138.9	141.3	138.2	137.5
55°	929.9	802.5	463.3	231.1	150.3	129.7	130.4	137.5	139.9	136.5	136.2
57.5°	1007.3	853.5	462.9	216.0	143.3	127.4	129.4	137.3	139.5	136.2	135.9
60°	1067.0	893.8	452.0	200.1	136.8	125.0	129.0	136.8	139.5	136.8	136.8
62.5°	1121.2	917.3	431.8	183.2	130.8	123.3	128.1	136.2	138.9	137.5	137.5
65°	1145.9	924.1	400.7	166.5	125.8	121.4	127.4	135.1	138.2	137.9	138.2
67.5°	1130.6	892.7	359.5	151.8	121.0	118.9	125.8	133.5	136.8	137.5	137.9
69°	1104.2	857.6	333.8	144.0	118.2	117.3	124.3	131.8	135.9	136.8	136.8
70°	1080.9	827.5	312.6	139.1	116.2	116.2	123.6	130.8	134.8	135.9	136.2
72.5°	968.2	729.6	264.2	126.8	111.8	112.8	120.4	127.4	131.8	132.8	132.8
75°	829.6	598.5	215.2	116.2	106.8	109.1	116.2	123.0	127.0	128.1	127.6
77.5°	660.7	464.0	174.7	107.1	101.0	103.3	110.9	117.3	121.4	122.0	120.6
80°	493.0	338.2	141.7	97.6	94.3	97.3	104.1	109.5	113.5	113.8	111.8
82.5°	341.6	244.2	115.3	88.6	86.9	89.2	95.3	100.0	103.8	102.8	101.7
85°	227.7	167.7	94.3	78.4	78.4	81.0	85.5	88.6	92.3	90.9	88.8
87.5°	150.0	115.5	77.3	68.6	69.3	71.7	75.0	76.0	79.4	78.4	76.0
90°	101.7	83.2	63.5	59.1	60.1	62.5	64.1	64.1	66.6	64.9	63.9
92.5°	72.4	63.5	53.1	51.1	52.0	54.1	54.3	53.1	55.1	54.1	52.7
95°	54.3	50.0	44.9	43.9	45.3	46.6	46.4	44.2	44.9	44.2	43.9
97.5°	42.2	41.0	38.2	37.5	38.8	39.9	39.2	36.8	37.2	36.6	35.8
100°	34.1	33.1	32.5	32.5	33.4	33.7	32.8	30.7	30.5	29.5	29.7
102.5°	26.9	26.9	27.4	28.0	28.7	28.7	27.4	25.7	25.1	24.0	24.0
105°	21.3	21.6	22.9	23.4	24.0	24.0	22.6	21.3	19.9	19.0	19.0
107.5°	16.6	17.2	18.5	19.7	20.3	19.9	19.0	17.5	15.9	14.8	14.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	13.1	13.8	15.2	16.6	16.9	16.9	15.9	14.3	12.1	11.8	11.8
112.5°	10.8	11.1	12.8	13.8	14.3	14.3	13.1	11.8	9.8	9.4	9.4
115°	8.9	9.2	10.5	11.5	11.8	11.8	11.1	9.8	7.7	7.7	7.7
117.5°	7.5	7.7	8.9	9.8	10.2	10.2	9.2	7.7	6.4	6.4	6.4
120°	6.4	6.7	7.5	8.2	8.4	8.4	7.7	6.4	5.4	5.4	5.4
122.5°	5.7	6.1	6.4	7.0	7.5	7.5	6.4	5.1	4.8	4.8	4.8
125°	5.1	5.4	5.7	6.1	6.4	6.1	5.4	4.4	4.0	4.4	4.4
127.5°	4.4	4.8	5.1	5.1	5.4	5.1	4.4	3.8	3.4	3.8	3.8
130°	4.0	4.0	4.4	4.4	4.8	4.4	3.8	3.1	3.1	3.4	3.4
132.5°	3.8	3.8	3.8	3.8	4.0	3.8	3.1	2.3	2.8	3.1	3.1
135°	3.1	3.1	3.4	3.1	3.4	2.8	2.3	2.1	2.3	2.8	2.8
137.5°	2.8	2.8	2.8	2.8	2.3	2.3	1.6	1.6	2.1	2.3	2.1
140°	2.3	2.3	2.3	2.1	2.1	1.6	1.3	1.3	1.6	1.6	1.6
142.5°	1.6	1.6	1.6	1.6	1.3	1.0	0.7	1.0	1.0	1.3	1.3
145°	1.3	1.3	1.3	1.0	0.7	0.7	0.3	0.7	0.7	1.0	1.0
147.5°	1.0	1.0	1.0	0.7	0.7	0.3	0.3	0.3	0.7	0.7	0.7
150°	0.7	0.7	0.7	0.7	0.3	0.0	0.0	0.0	0.3	0.3	0.3
152.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.3	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)