

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: P240532

Luminaire Tested: **UTLD-AF24-20-D-U-SL3-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-32)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-20-D-U-SL3-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2174.8 lumens
Efficiency: N/A
Efficacy: 103.6 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 - U2 - G2

Input Watts (W): 21
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



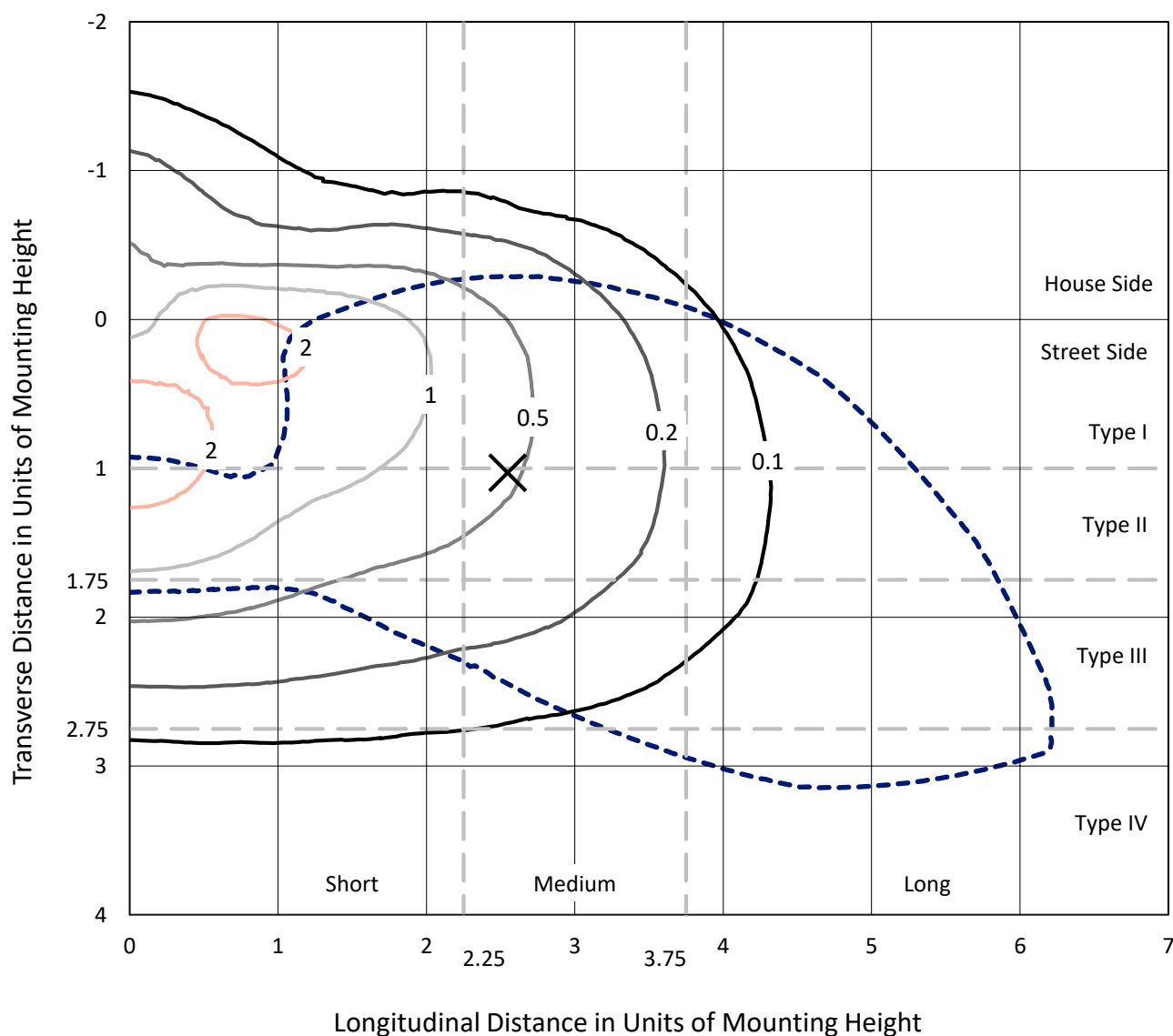
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

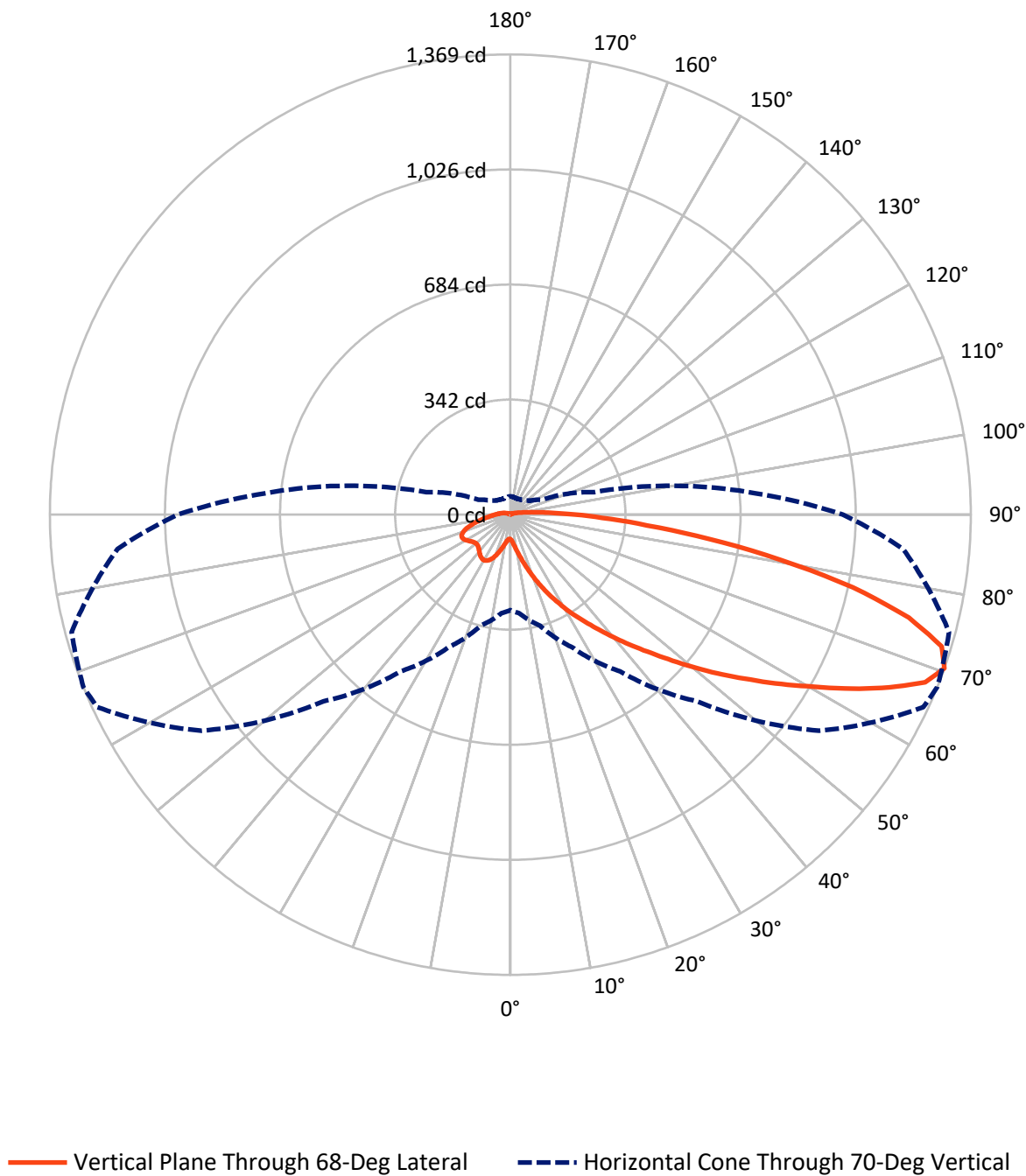


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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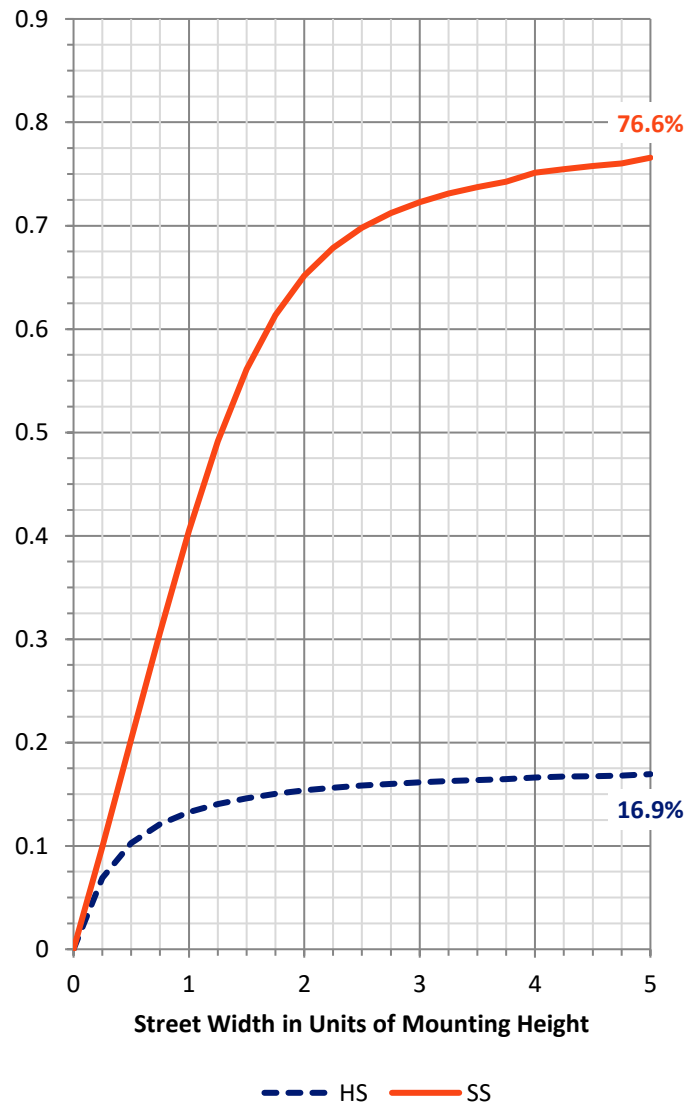
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	384.4	35.3	419.7
	% Fixture	17.7	1.6	19.3
Street Side	Lumens	1706.7	48.4	1755.1
	% Fixture	78.5	2.2	80.7
Total	Lumens	2091.1	83.7	2174.8
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.0	0.4
10°-20°	34.5	1.6
20°-30°	87.3	4.0
30°-40°	169.2	7.8
40°-50°	285.3	13.1
50°-60°	426.5	19.6
60°-70°	517.2	23.8
70°-80°	403.5	18.6
80°-90°	159.7	7.3
90°-100°	48.9	2.2
100°-110°	19.2	0.9
110°-120°	8.5	0.4
120°-130°	4.2	0.2
130°-140°	2.1	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°	2091.1	96.2
0°-180°	2174.8	100.0

Coefficient of Utilization



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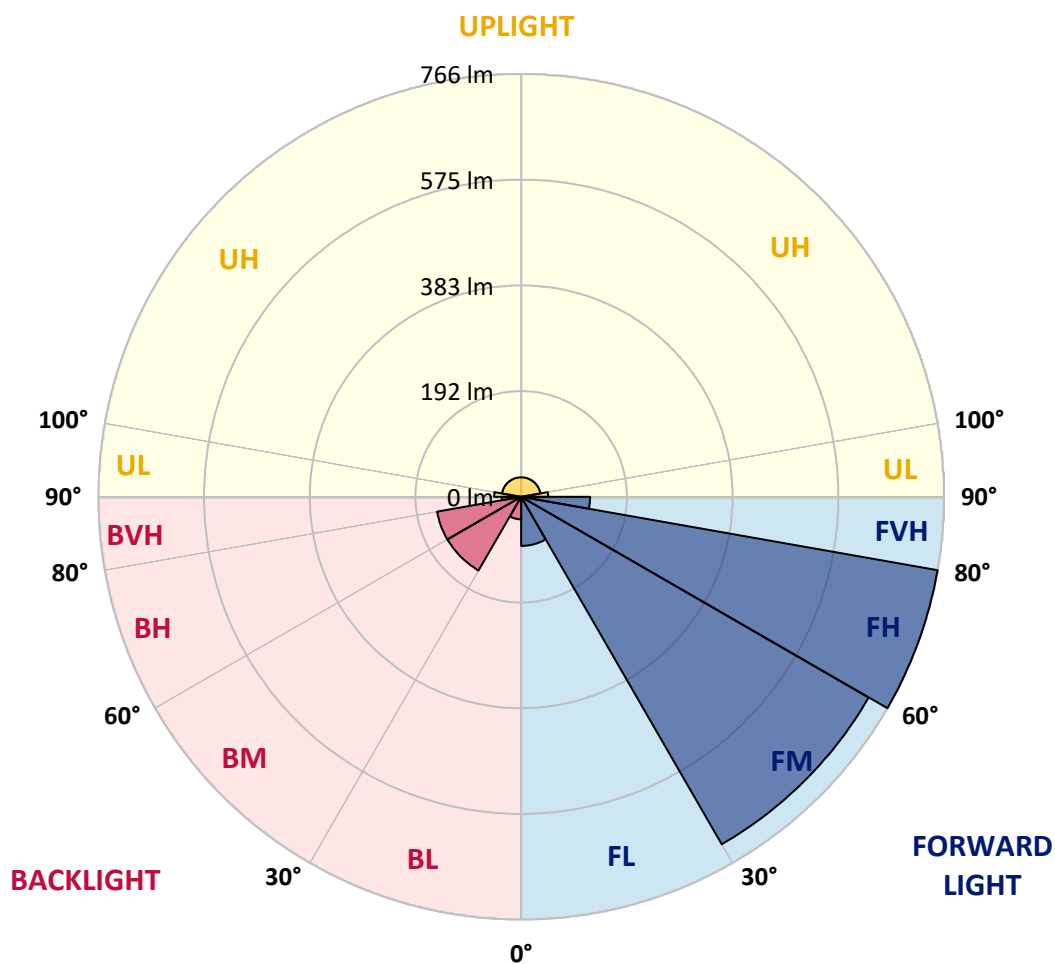
CATALOG NUMBER: UTLD-AF24-20-D-U-SL3-TL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	88.9	4.1			
FM	(30°-60°)	726.9	33.4			
FH	(60°-80°)	766.1	35.2			G1/1800
FVH	(80°-90°)	124.8	5.7			G2/225
BL	(0°-30°)	40.9	1.9	B0/110		
BM	(30°-60°)	154.1	7.1	B0/220		
BH	(60°-80°)	154.6	7.1	B1/500		G1/500
BVH	(80°-90°)	34.9	1.6			G1/100
UL	(90°-100°)	48.9	2.2		U2/50	
UH	(100°-180°)	35.3	1.6		U2/50	

BUG Rating: B1-U2-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
2.5°	81.3	81.6	81.6	80.7	80.5	79.6	78.2	77.6	77.0	76.5	75.4
5°	92.2	92.2	91.6	90.7	89.6	88.7	87.3	85.6	85.3	83.3	81.3
7.5°	104.3	104.6	105.0	103.5	101.8	100.4	98.7	96.4	95.9	93.8	90.1
10°	120.6	120.8	120.3	118.9	116.6	114.9	112.8	110.6	109.8	108.0	102.9
12.5°	140.1	139.9	138.2	136.2	133.6	131.7	129.1	127.4	126.8	125.1	119.7
15°	160.9	162.0	160.1	155.5	152.4	149.2	148.1	148.1	148.7	146.7	141.6
17.5°	187.7	188.5	185.1	178.8	173.7	170.3	169.2	171.4	172.3	173.2	168.6
20°	218.6	218.9	213.5	204.7	195.6	191.4	191.6	197.0	199.1	202.1	196.7
22.5°	256.5	254.2	246.5	232.8	219.8	213.0	215.5	226.4	228.0	234.6	231.7
25°	296.0	295.7	282.9	264.7	245.7	236.8	241.1	254.5	259.3	269.2	265.6
27.5°	341.5	340.3	323.9	301.4	275.5	262.5	266.2	285.2	290.8	307.6	303.7
30°	389.8	390.2	370.8	339.5	307.4	289.2	291.4	317.9	325.3	344.6	343.5
32.5°	447.5	444.2	422.5	381.6	342.1	317.3	320.5	351.2	361.4	384.4	381.0
35°	505.5	501.2	472.6	427.6	378.2	348.9	350.3	386.7	397.5	427.4	420.8
37.5°	559.0	556.7	528.0	476.3	418.5	383.8	385.6	424.8	438.4	471.7	463.7
40°	616.4	616.4	587.2	530.8	463.5	421.7	424.2	467.2	483.7	520.1	506.7
42.5°	677.3	675.2	644.3	580.6	508.1	462.4	467.5	515.0	533.4	572.0	558.4
45°	737.2	733.0	700.9	634.6	552.7	508.1	515.8	567.2	586.6	635.8	616.7
47.5°	789.0	784.5	752.9	683.2	599.7	555.6	566.4	628.1	648.6	707.2	678.1
50°	826.0	824.6	793.8	721.9	641.5	604.5	627.3	692.9	717.4	776.5	749.2
52.5°	847.6	845.1	820.6	756.9	683.2	655.1	689.8	763.4	789.3	853.0	821.1
55°	842.8	841.1	823.7	775.4	716.0	703.7	759.1	841.9	866.1	934.9	897.0
57.5°	804.7	806.9	801.8	776.5	740.1	754.0	830.2	924.6	950.2	1017.3	977.0
60°	736.7	735.8	750.3	754.6	749.8	797.6	916.2	1019.1	1038.7	1106.3	1054.9
62.5°	636.4	634.0	665.6	706.2	742.7	834.2	993.5	1119.7	1139.4	1193.9	1126.8
65°	513.2	523.4	563.0	630.0	707.5	848.1	1068.6	1222.3	1238.6	1267.5	1183.3
67.5°	388.9	399.0	450.1	535.1	648.6	832.0	1116.3	1314.5	1330.1	1337.8	1208.1
70°	284.1	293.7	342.1	435.3	568.7	785.0	1120.0	1354.3	1368.5	1349.8	1171.8
72.5°	202.1	207.2	248.8	337.3	477.7	702.9	1073.4	1328.7	1340.4	1288.3	1075.6
75°	143.0	145.3	181.2	256.5	388.9	609.9	962.5	1214.1	1223.2	1157.8	914.7
77.5°	97.5	102.6	131.0	195.6	311.9	500.7	815.8	1041.0	1041.0	957.9	723.6
80°	69.0	73.3	94.1	146.2	244.3	401.2	659.1	827.2	814.1	720.0	521.5
82.5°	49.7	53.2	69.7	111.5	189.7	317.0	500.1	612.4	594.5	502.4	344.6
85°	36.1	39.5	52.9	81.9	145.3	245.9	374.7	425.3	407.7	333.0	223.8
87.5°	26.4	28.7	39.5	61.7	110.1	186.3	275.0	288.9	273.2	215.2	143.6
90°	18.7	20.8	30.2	46.6	82.4	139.9	193.0	189.7	172.6	135.3	94.9
92.5°	13.6	15.0	22.5	35.5	61.4	102.6	132.8	122.5	112.8	87.1	66.0
95°	10.2	11.4	17.6	27.6	45.2	72.2	89.6	80.5	73.0	59.4	48.6
97.5°	8.3	9.1	14.5	22.2	35.0	52.6	62.0	53.2	49.7	43.0	37.5
100°	7.1	7.7	12.3	18.5	27.6	39.5	43.8	37.2	35.3	32.4	29.3
102.5°	6.5	6.9	10.8	16.0	22.5	29.6	31.6	27.8	26.4	24.8	23.0
105°	5.9	6.2	9.7	13.9	19.0	23.0	24.1	21.3	20.5	18.7	17.6
107.5°	5.7	5.7	8.5	12.3	16.2	19.0	19.0	16.8	16.0	14.2	13.6
110°	5.4	5.4	7.7	11.0	13.9	16.2	15.7	13.4	12.5	10.8	10.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	5.1	5.1	7.1	9.7	12.3	13.6	13.1	10.8	9.9	8.3	8.3
115°	4.8	4.8	6.2	8.5	10.8	11.7	11.0	8.8	8.3	6.5	6.9
117.5°	4.8	4.8	5.9	7.7	9.4	10.2	9.4	7.1	6.5	5.4	5.9
120°	4.5	4.5	5.4	6.9	8.3	8.8	8.0	5.9	5.4	4.5	5.1
122.5°	4.5	4.5	5.1	5.9	7.4	7.7	6.9	5.1	4.5	4.0	4.5
125°	4.3	4.3	4.8	5.4	6.2	6.5	5.7	4.3	4.0	3.7	4.0
127.5°	4.3	4.3	4.5	4.8	5.7	5.7	4.8	3.4	3.4	3.2	3.7
130°	4.0	4.3	4.3	4.5	4.8	4.8	4.0	2.9	2.9	2.9	3.4
132.5°	4.0	4.0	4.0	4.0	4.3	4.0	3.2	2.6	2.6	2.6	3.2
135°	3.7	3.7	3.7	3.7	3.4	3.2	2.6	1.9	1.9	2.3	2.9
137.5°	3.7	3.7	3.4	3.2	3.2	2.6	1.9	1.7	1.7	2.3	2.6
140°	3.4	3.4	3.2	2.9	2.3	1.9	1.4	1.4	1.4	1.7	1.9
142.5°	2.9	2.9	2.9	2.3	1.7	1.1	0.8	0.8	1.1	1.4	1.7
145°	2.6	2.6	2.3	1.9	1.1	0.6	0.3	0.6	0.8	1.1	1.4
147.5°	1.9	1.9	1.7	1.4	0.6	0.3	0.0	0.3	0.6	0.6	0.8
150°	1.4	1.4	1.4	0.8	0.3	0.0	0.0	0.3	0.3	0.3	0.6
152.5°	1.1	1.1	0.8	0.6	0.0	0.0	0.0	0.0	0.3	0.3	0.3
155°	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3
157.5°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.3	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°	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
2.5°	74.5	74.2	72.8	71.6	70.3	69.0	67.9	67.1	66.8	66.3	66.5
5°	79.6	78.5	75.6	73.0	70.3	67.7	65.4	63.7	62.3	61.7	61.4
7.5°	88.4	86.7	81.6	77.0	72.5	67.9	64.2	61.4	59.7	58.6	58.6
10°	101.3	97.5	90.9	83.3	75.6	69.0	63.9	59.9	57.4	56.6	56.6
12.5°	116.8	112.8	102.6	90.9	80.2	71.1	64.2	59.9	57.4	56.3	56.1
15°	137.6	131.7	116.6	100.0	84.5	72.8	64.5	60.3	58.6	58.0	58.0
17.5°	162.0	154.7	132.8	110.1	89.3	73.7	65.4	62.0	61.2	61.2	61.2
20°	191.1	180.2	151.0	118.9	92.7	74.5	66.0	63.4	63.4	63.9	64.2
22.5°	222.1	208.4	168.6	127.1	93.8	75.1	65.7	63.9	65.4	66.8	67.1
25°	255.0	236.0	184.5	132.2	94.4	73.7	64.9	64.2	67.1	69.0	69.7
27.5°	290.0	264.1	198.1	134.2	92.7	71.1	63.4	63.7	67.9	70.8	71.4
30°	322.1	290.6	209.0	133.6	89.0	67.9	61.7	62.8	67.9	71.9	72.8
32.5°	355.4	316.7	215.5	131.0	84.5	64.5	59.7	62.0	67.7	72.2	73.0
35°	388.7	339.8	218.6	125.9	79.3	61.4	57.7	60.6	66.8	71.9	72.5
37.5°	422.0	362.5	219.5	119.4	74.8	58.8	56.3	59.7	65.4	71.4	72.2
40°	457.8	385.0	217.8	112.8	70.5	57.2	55.1	58.6	64.2	70.5	71.6
42.5°	497.9	408.9	215.8	106.4	67.7	56.1	54.3	57.4	62.6	69.7	71.1
45°	542.5	435.1	214.7	101.3	66.0	55.4	54.0	56.6	61.7	69.0	70.5
47.5°	590.5	468.0	215.8	97.8	65.2	55.8	54.0	56.1	60.6	67.9	69.7
50°	649.2	505.8	220.0	95.2	64.9	56.1	54.3	55.4	59.4	66.3	67.9
52.5°	709.7	544.5	226.9	94.7	65.2	56.6	54.6	55.1	57.7	63.9	65.4
55°	772.5	595.7	238.6	95.5	65.7	57.4	54.8	54.6	56.3	61.2	62.8
57.5°	843.6	648.9	253.1	97.5	66.5	58.0	55.1	54.0	54.6	58.6	59.9
60°	914.1	702.9	267.8	100.0	68.2	58.8	55.4	53.7	53.7	56.9	58.0
62.5°	978.1	750.3	280.1	103.5	69.7	59.4	55.4	53.2	52.9	55.4	56.6
65°	1021.9	775.4	282.9	105.5	71.1	59.7	54.8	52.6	52.3	54.3	55.4
67.5°	1033.6	771.4	277.2	106.4	71.9	59.7	54.8	52.1	52.3	54.0	54.8
70°	988.1	730.2	258.5	104.6	71.6	59.4	54.3	51.5	52.1	53.7	54.3
72.5°	879.4	644.9	229.4	100.4	70.3	58.3	53.2	50.6	51.5	53.5	54.0
75°	738.2	534.3	195.1	93.5	67.7	56.9	52.1	49.5	50.9	52.9	53.2
77.5°	567.8	409.5	159.5	84.7	64.2	54.8	50.3	47.8	49.7	52.1	51.8
80°	403.1	298.6	125.9	75.6	59.7	52.1	48.1	45.8	48.1	50.3	49.7
82.5°	277.8	202.4	100.7	66.8	54.8	48.9	45.5	43.5	46.0	48.1	47.2
85°	182.0	136.8	79.3	58.6	50.3	45.8	42.7	40.6	43.2	44.9	43.8
87.5°	117.4	95.2	63.4	50.9	45.5	42.4	39.5	37.8	40.4	41.8	40.6
90°	81.6	69.4	52.3	44.1	40.9	38.7	36.4	34.7	36.9	38.1	37.5
92.5°	58.3	53.2	43.5	38.7	36.9	35.0	32.9	31.6	33.9	34.7	34.2
95°	45.5	42.4	36.9	34.2	33.2	31.8	29.9	28.4	30.2	30.7	30.4
97.5°	36.4	35.0	31.8	30.2	29.6	28.4	27.0	25.6	26.7	27.0	26.7
100°	29.3	28.7	27.3	26.4	26.2	25.3	23.8	22.7	23.3	23.0	23.0
102.5°	23.3	23.3	23.0	22.7	22.7	21.9	20.8	19.6	19.6	19.0	19.0
105°	18.5	19.0	19.0	19.3	19.6	19.0	17.9	16.5	16.2	15.3	15.3
107.5°	14.5	15.0	16.0	16.2	16.5	16.0	15.0	13.6	12.8	12.0	12.3
110°	11.4	12.0	13.1	13.6	13.9	13.6	12.5	11.4	9.9	9.4	9.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	8.8	9.7	10.8	11.4	11.7	11.4	10.2	9.1	7.7	7.4	7.4
115°	7.4	8.0	9.1	9.7	9.7	9.4	8.5	7.1	5.9	5.7	5.9
117.5°	6.2	6.9	7.7	8.3	8.3	8.0	7.1	5.7	4.8	4.8	4.8
120°	5.4	5.9	6.5	7.1	7.1	6.9	5.9	4.5	4.0	4.0	4.0
122.5°	4.8	5.1	5.7	5.9	5.9	5.7	4.8	3.7	3.2	3.4	3.4
125°	4.3	4.5	5.1	5.4	5.1	4.8	4.0	2.9	2.6	2.9	2.9
127.5°	4.0	4.3	4.5	4.5	4.5	4.0	3.4	2.3	2.3	2.6	2.6
130°	3.7	3.7	4.0	4.0	3.7	3.4	2.6	1.7	1.7	2.3	2.3
132.5°	3.4	3.4	3.7	3.4	3.4	2.9	1.9	1.4	1.7	1.9	1.9
135°	2.9	2.9	3.2	3.2	2.6	2.3	1.4	1.1	1.1	1.4	1.7
137.5°	2.6	2.9	2.9	2.6	2.3	1.7	1.1	0.8	1.1	1.1	1.4
140°	2.3	2.3	2.3	1.9	1.7	1.1	0.6	0.6	0.8	0.8	0.8
142.5°	1.7	1.9	1.9	1.7	1.1	0.6	0.3	0.3	0.6	0.6	0.6
145°	1.4	1.4	1.4	1.1	0.8	0.6	0.3	0.3	0.3	0.3	0.3
147.5°	0.8	1.1	1.1	0.8	0.6	0.3	0.0	0.0	0.0	0.0	0.0
150°	0.6	0.6	0.8	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0
152.5°	0.3	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.3	0.3	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.3	0.3	0.3	0.3	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)