

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: P240263

Luminaire Tested: **UTLD-AF24-30-D-U-SL3-FP**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-27)
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-SL3-FP
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2825.4 lumens
Efficiency: N/A
Efficacy: 91.1 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): 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

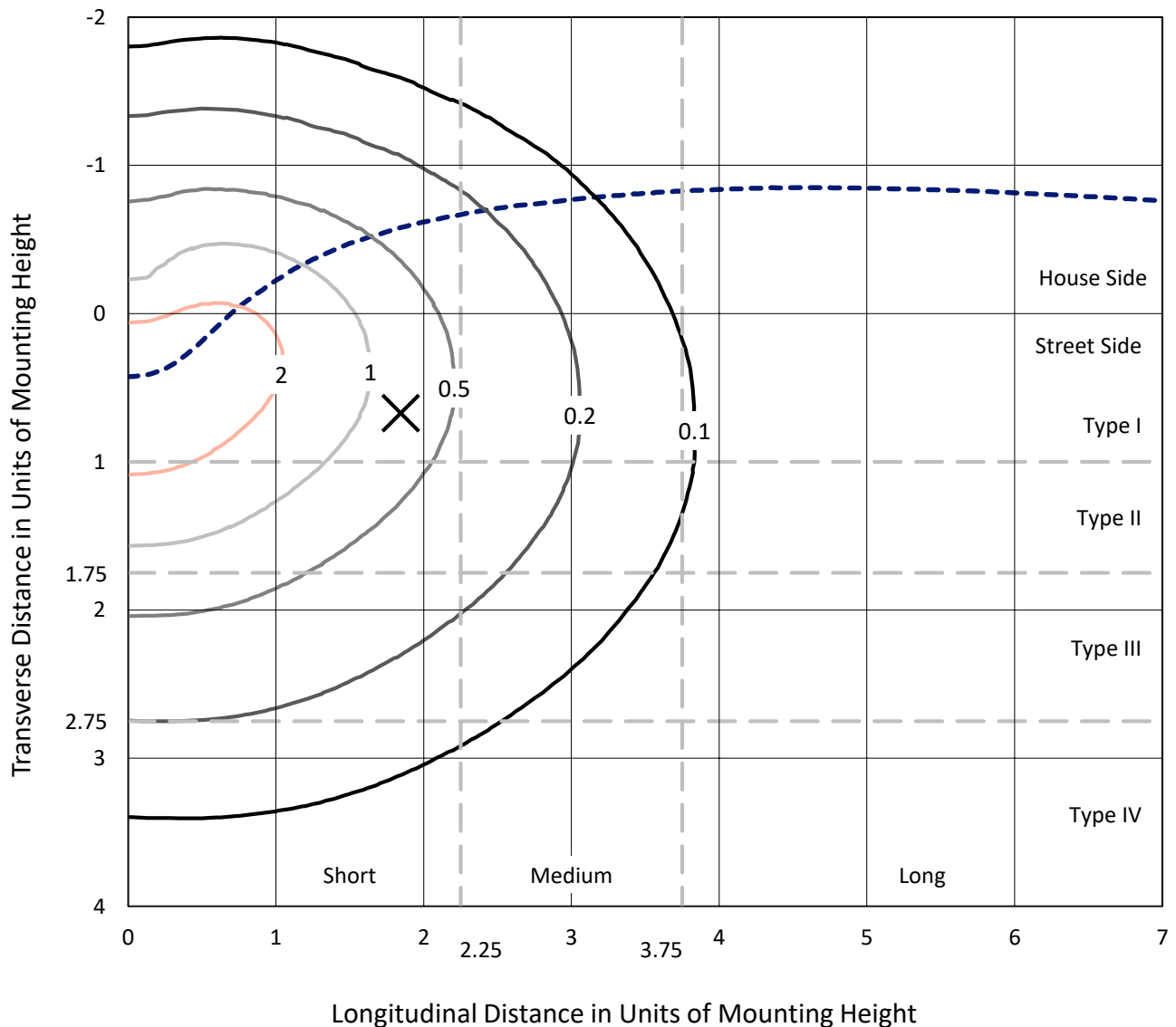


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

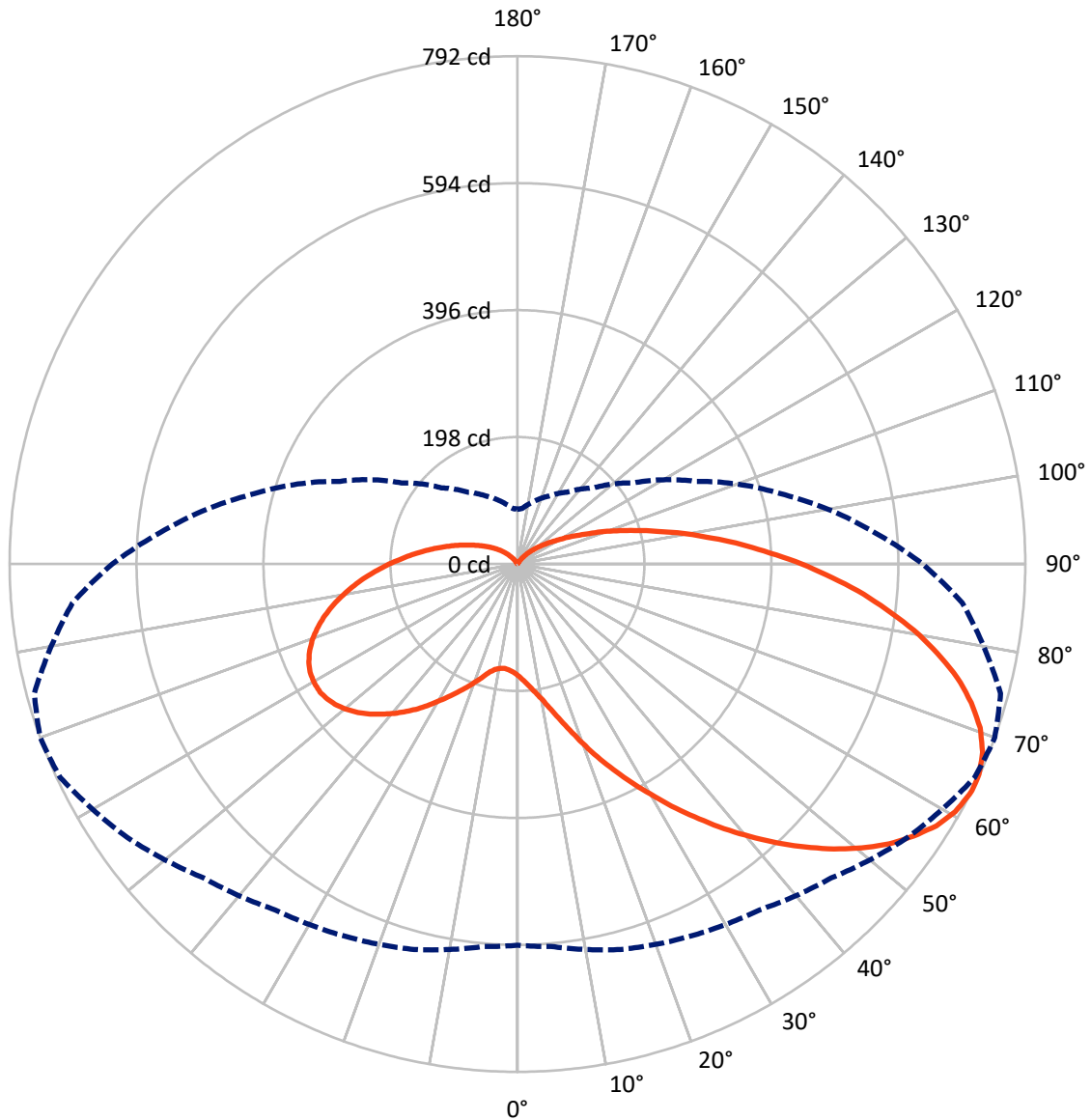


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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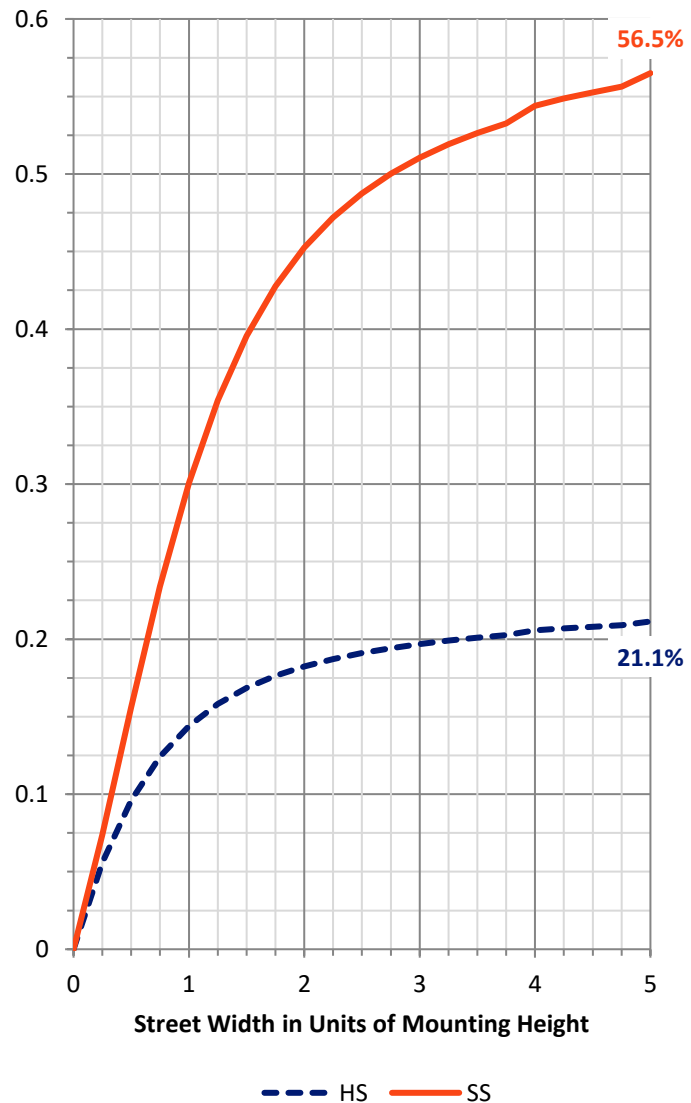
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	634.6	153.6	788.2
	% Fixture	22.5	5.4	27.9
Street Side	Lumens	1715.3	321.9	2037.2
	% Fixture	60.7	11.4	72.1
Total	Lumens	2349.9	475.5	2825.4
	% Fixture	83.2	16.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.3	0.6
10°-20°	60.4	2.1
20°-30°	128.2	4.5
30°-40°	221.1	7.8
40°-50°	326.2	11.5
50°-60°	415.2	14.7
60°-70°	450.6	15.9
70°-80°	412.1	14.6
80°-90°	318.8	11.3
90°-100°	214.8	7.6
100°-110°	130.7	4.6
110°-120°	73.2	2.6
120°-130°	37.3	1.3
130°-140°	15.4	0.5
140°-150°	3.8	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2349.9	83.2
0°-180°	2825.4	100.0



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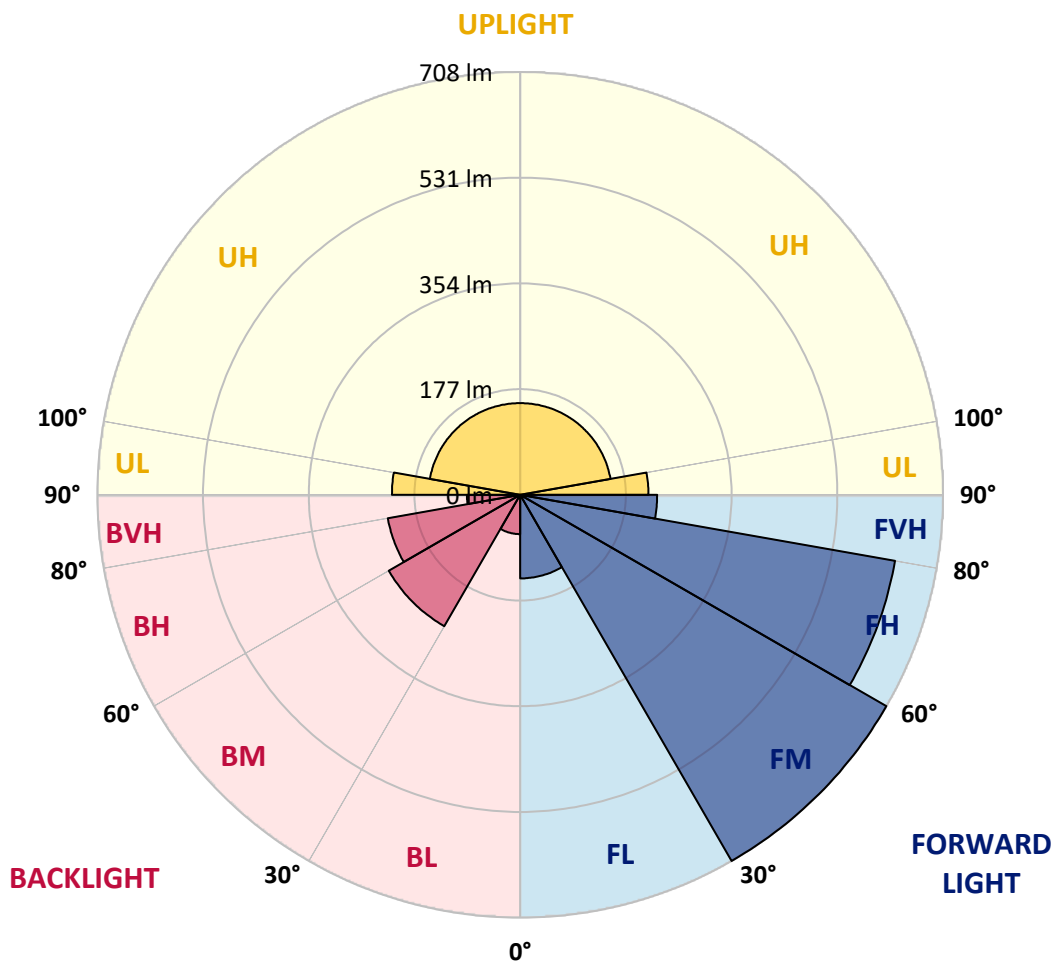
CATALOG NUMBER: UTLD-AF24-30-D-U-SL3-FP

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	140.0	5.0			
FM (30°-60°)	708.3	25.1			
FH (60°-80°)	637.6	22.6			G0/660
FVH (80°-90°)	229.5	8.1			G3/500
BL (0°-30°)	65.9	2.3	B0/110		
BM (30°-60°)	254.2	9.0	B1/1000		
BH (60°-80°)	225.2	8.0	B1/500		G1/500
BVH (80°-90°)	89.3	3.2			G1/100
UL (90°-100°)	214.8	7.6		U3/500	
UH (100°-180°)	153.6	5.4		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°	174.3	174.3	174.3	174.3	174.3	174.3	174.3	174.3	174.3	174.3	174.3
2.5°	194.4	194.0	193.5	191.6	190.9	188.1	185.9	183.2	181.7	180.0	177.0
5°	214.7	214.0	212.8	210.8	207.5	203.6	199.0	193.5	190.9	187.8	181.7
7.5°	234.8	234.4	233.9	230.2	226.7	220.4	214.0	206.2	202.4	197.4	188.1
10°	256.7	257.5	255.1	251.6	245.9	239.4	230.9	220.4	215.5	210.1	197.8
12.5°	281.7	281.3	279.4	273.6	267.4	260.1	249.7	238.6	232.8	225.5	209.7
15°	307.1	305.6	303.2	299.4	291.6	283.3	272.1	259.3	252.8	244.7	227.0
17.5°	333.6	332.5	330.9	324.4	317.8	307.5	298.2	284.4	276.3	267.4	247.0
20°	360.2	359.4	357.5	352.5	344.4	335.1	326.3	311.7	302.5	291.6	268.6
22.5°	388.3	387.9	386.0	380.2	373.7	367.9	356.7	340.1	331.3	318.2	291.3
25°	417.2	417.5	414.1	408.7	404.1	398.6	387.1	369.8	359.1	345.6	315.2
27.5°	448.3	446.7	444.5	439.5	435.6	429.4	417.5	399.8	389.4	374.8	340.9
30°	477.2	477.5	472.5	469.4	466.8	461.0	449.8	431.8	420.2	406.7	367.9
32.5°	508.3	506.8	503.3	500.2	498.3	492.1	481.8	466.0	454.5	437.5	395.2
35°	535.6	535.3	531.4	532.1	527.2	522.2	514.4	499.9	487.9	471.8	425.5
37.5°	563.7	562.9	560.3	561.1	555.3	551.5	546.5	533.8	523.8	507.2	457.2
40°	590.3	588.4	586.5	587.6	583.4	580.6	578.0	569.2	558.7	541.4	488.4
42.5°	611.8	611.4	610.3	612.2	608.0	607.2	608.8	604.2	594.9	577.3	519.9
45°	630.3	630.3	631.9	633.0	629.1	630.3	638.0	636.9	629.5	611.8	552.6
47.5°	645.0	644.6	648.4	650.0	648.0	652.2	664.9	670.3	664.2	647.6	583.0
50°	653.4	653.4	660.3	662.3	662.7	670.7	688.4	700.3	696.1	680.4	611.8
52.5°	655.7	656.5	666.1	670.3	671.9	684.6	708.8	726.9	725.4	710.3	638.0
55°	651.8	653.1	665.7	672.3	676.9	694.6	725.0	750.3	749.2	735.4	659.6
57.5°	641.1	642.6	658.8	668.4	676.9	700.0	736.9	768.8	770.4	757.3	678.0
60°	624.2	626.0	645.7	658.4	671.5	699.6	743.1	780.8	784.2	770.8	690.4
62.5°	600.7	603.0	625.7	643.4	661.1	694.2	743.5	786.5	791.2	779.3	696.1
63°	594.5	598.7	622.3	640.0	658.4	692.2	743.1	787.0	792.0	780.0	696.5
65°	570.7	575.3	602.2	623.0	645.3	683.4	737.6	785.0	791.2	779.6	694.6
67.5°	537.2	543.4	571.8	597.2	625.7	667.7	725.8	775.4	782.4	771.2	686.1
70°	499.1	507.6	537.6	569.2	600.7	646.5	707.3	758.8	765.4	753.8	669.2
72.5°	460.6	469.8	502.6	536.4	571.8	620.3	681.5	733.9	740.0	730.0	645.7
75°	421.8	428.7	462.6	501.8	540.2	589.9	653.1	701.8	708.8	696.9	616.4
77.5°	380.5	390.2	425.2	464.8	506.1	558.7	619.2	665.3	669.5	657.7	578.8
80°	340.1	351.0	385.2	427.9	471.4	522.2	579.9	624.9	627.3	614.6	538.4
82.5°	304.7	314.8	349.7	391.0	434.9	486.8	539.5	578.0	579.5	567.6	496.4
85°	270.6	279.4	312.8	355.2	399.5	447.5	498.0	530.6	532.5	518.3	452.1
87.5°	239.8	246.6	279.0	321.3	364.4	411.7	453.7	481.0	481.4	467.6	408.3
90°	213.2	217.4	249.0	290.5	331.3	373.7	412.9	436.8	433.6	419.1	362.8
92.5°	187.4	190.9	219.7	260.1	300.5	338.6	372.9	388.3	384.8	372.1	322.4
95°	166.6	168.2	194.7	232.8	268.9	305.1	334.4	345.6	342.1	328.7	282.4
97.5°	145.5	147.8	172.0	206.6	241.6	274.4	298.2	305.6	299.0	285.9	247.5
100°	129.7	130.4	150.9	183.9	217.1	245.5	264.3	268.9	262.1	250.1	215.5
102.5°	115.1	114.7	133.2	164.0	193.5	217.4	233.5	233.2	225.9	215.5	187.0
105°	102.4	102.0	116.2	144.6	171.2	192.4	204.3	202.7	195.5	185.5	162.8
107.5°	90.4	91.2	101.6	126.6	150.5	169.3	178.2	174.7	168.2	159.0	141.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	81.5	81.5	89.6	111.2	133.2	148.5	155.5	150.5	144.3	135.0	121.9
112.5°	73.4	73.4	79.3	97.0	117.0	130.8	135.4	128.9	121.6	115.5	105.8
115°	66.2	66.2	70.1	84.3	102.0	113.5	116.2	109.3	103.1	98.5	92.4
117.5°	60.0	60.0	62.3	72.3	88.1	98.9	100.5	92.8	88.5	83.9	80.4
120°	54.2	54.6	55.4	62.0	75.1	84.3	85.0	77.7	74.3	71.9	70.1
122.5°	49.3	49.3	49.6	53.5	63.8	71.6	71.6	65.4	63.1	62.3	60.8
125°	44.6	44.6	44.6	46.1	53.1	59.2	58.5	54.6	53.5	53.5	52.7
127.5°	40.4	40.0	39.6	40.0	43.5	47.7	47.7	45.0	45.0	45.4	45.8
130°	36.2	35.8	35.0	34.3	34.7	37.7	37.3	36.5	37.3	38.5	39.3
132.5°	31.9	31.9	30.8	28.8	27.7	28.4	28.8	29.3	30.4	31.9	33.1
135°	27.7	27.7	26.6	23.8	21.6	21.2	20.8	22.7	24.7	26.2	27.3
137.5°	23.4	23.4	22.3	19.2	16.2	14.6	14.2	17.3	19.2	20.8	21.9
140°	19.6	19.2	18.1	15.0	11.6	9.2	9.2	12.3	14.2	15.8	17.3
142.5°	15.3	15.3	14.2	11.6	7.7	5.4	5.7	8.5	10.0	11.2	12.3
145°	11.6	11.6	10.4	7.7	4.6	2.7	3.1	5.4	6.5	7.7	8.9
147.5°	8.1	8.1	7.0	5.0	2.4	0.8	1.5	3.1	3.9	4.6	5.4
150°	5.0	5.0	4.2	2.7	1.1	0.0	0.4	1.5	1.9	2.4	3.1
152.5°	2.7	2.7	1.9	1.1	0.4	0.0	0.0	0.4	0.8	1.1	1.5
155°	1.1	1.1	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.4
157.5°	0.4	0.4	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°	174.3	174.3	174.3	174.3	174.3	174.3	174.3	174.3	174.3	174.3	174.3
2.5°	175.4	173.9	170.4	167.4	164.7	162.0	159.7	157.7	157.4	156.2	156.6
5°	178.2	175.1	168.6	162.8	156.6	151.6	147.8	144.3	141.6	140.5	140.0
7.5°	183.5	178.5	168.6	159.3	150.9	143.1	136.6	131.7	128.5	126.6	126.9
10°	191.3	184.7	171.2	158.6	146.6	136.3	127.8	121.6	117.0	115.1	115.1
12.5°	201.2	193.5	176.3	159.7	144.6	131.7	120.8	113.1	108.9	106.2	106.2
15°	217.4	206.2	184.7	163.6	144.6	128.9	117.0	108.5	104.6	102.7	102.4
17.5°	234.8	222.4	196.6	171.2	148.1	128.5	116.6	109.3	104.6	102.4	102.4
20°	253.6	239.0	209.3	180.0	154.0	133.2	119.7	110.8	105.1	102.0	101.6
22.5°	273.9	257.8	222.8	189.3	160.8	140.9	123.6	112.0	105.1	102.0	101.6
25°	296.7	277.0	236.6	199.7	170.1	147.8	128.2	113.5	105.1	101.2	100.9
27.5°	319.8	297.9	252.1	209.7	179.7	154.3	132.4	114.7	105.1	100.9	100.5
30°	344.8	318.6	267.1	221.3	188.5	160.1	135.8	115.8	105.1	100.5	100.0
32.5°	369.4	341.4	283.3	234.4	197.0	164.7	138.9	118.2	105.5	100.0	99.3
35°	396.7	365.6	300.5	247.5	204.7	168.9	141.6	119.7	105.1	99.3	98.9
37.5°	425.2	389.4	316.3	259.0	210.8	172.0	143.1	120.8	105.1	98.9	98.1
40°	453.7	413.7	333.3	270.6	216.7	174.7	144.6	121.9	104.6	98.1	97.4
42.5°	481.4	437.5	349.7	280.2	221.3	176.7	145.5	122.8	104.6	97.4	96.6
45°	509.8	461.8	367.1	289.4	224.7	177.4	145.5	122.8	105.1	96.6	95.9
47.5°	537.2	484.5	382.9	296.7	227.4	177.8	145.5	122.8	105.1	95.9	94.6
50°	561.4	505.2	396.0	302.8	228.9	177.8	145.1	122.8	105.1	94.6	93.5
52.5°	584.9	523.3	408.3	307.1	229.8	177.0	144.3	121.9	105.1	93.5	92.4
55°	603.7	539.5	416.8	309.7	228.9	175.8	142.8	121.2	104.6	92.4	90.8
57.5°	618.8	551.1	423.3	310.6	227.4	173.9	141.3	120.1	103.9	90.8	89.6
60°	628.4	557.6	425.2	309.0	225.2	171.2	139.3	118.9	102.7	89.3	87.8
62.5°	631.9	559.9	424.4	306.0	221.7	168.6	137.4	117.3	101.6	87.4	85.8
63°	631.9	559.6	424.0	305.1	220.4	167.8	137.0	117.0	101.2	87.0	85.4
65°	629.5	556.4	420.2	300.5	217.1	165.1	135.0	115.5	100.5	85.8	83.9
67.5°	619.9	548.3	411.3	293.6	211.2	161.2	132.0	113.1	98.5	83.9	81.9
70°	604.6	534.5	399.5	284.4	205.1	157.0	128.9	110.8	96.6	81.9	79.7
72.5°	581.9	515.3	384.4	273.6	197.8	152.4	125.4	108.1	93.9	79.7	76.9
75°	553.7	491.8	366.7	261.3	190.5	147.0	121.9	105.1	91.2	77.3	73.9
77.5°	520.7	464.4	346.4	248.6	182.0	141.6	117.7	101.6	88.5	75.1	70.8
80°	483.8	432.1	324.4	234.4	173.2	135.8	113.5	98.1	84.7	71.9	67.7
82.5°	446.7	399.8	301.3	219.7	164.3	130.0	108.9	94.3	81.2	68.8	64.7
85°	406.7	365.9	278.7	204.7	155.1	123.6	104.2	90.0	77.7	65.8	61.2
87.5°	368.3	331.7	253.6	190.1	146.2	117.7	99.6	85.8	73.4	62.0	58.5
90°	330.9	299.0	232.0	175.1	136.6	111.2	94.6	81.2	69.3	58.1	55.4
92.5°	294.7	265.9	208.6	161.2	127.8	105.1	89.3	76.6	65.1	54.6	52.4
95°	260.9	237.0	188.9	147.4	119.3	98.9	84.3	72.3	60.5	50.4	48.9
97.5°	228.9	209.7	169.7	135.4	110.1	92.8	78.9	67.3	55.8	46.5	45.8
100°	202.0	185.5	151.6	123.2	102.0	86.5	73.9	62.3	51.1	42.8	42.8
102.5°	176.7	162.0	134.7	111.6	93.9	80.0	68.1	57.3	46.5	39.3	39.3
105°	154.3	142.4	120.4	101.2	86.2	73.9	62.7	52.4	41.5	35.8	35.8
107.5°	133.9	124.7	107.0	91.6	78.5	67.3	57.3	47.0	36.5	32.3	32.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	117.3	110.1	95.0	81.9	71.2	62.0	52.4	41.9	31.9	29.3	29.3
112.5°	101.6	95.9	83.9	73.9	64.7	56.2	47.0	36.9	28.1	26.6	26.6
115°	88.9	84.3	74.3	65.8	58.1	50.4	41.5	31.9	24.2	23.4	23.8
117.5°	77.7	73.9	66.2	59.2	52.4	45.0	36.9	27.3	21.2	21.2	21.2
120°	67.7	65.1	58.1	52.4	46.5	39.6	31.9	23.1	18.5	18.5	18.8
122.5°	59.6	57.0	52.0	46.1	40.8	34.7	27.3	19.2	16.2	16.6	17.0
125°	51.6	50.0	45.4	40.4	35.4	29.3	22.7	15.8	14.2	14.6	15.0
127.5°	45.0	43.9	39.3	35.0	30.4	24.7	18.5	12.7	12.0	12.7	13.1
130°	38.5	37.7	34.3	30.0	25.4	20.4	14.6	10.4	10.4	11.2	11.2
132.5°	32.7	31.9	28.8	24.7	20.8	15.8	11.2	8.5	8.9	9.6	9.6
135°	27.3	26.6	23.8	20.4	16.2	12.0	8.5	7.0	7.7	8.1	8.1
137.5°	22.3	21.6	19.2	15.8	12.0	8.5	6.1	5.4	6.1	7.0	7.0
140°	17.0	17.0	15.0	12.0	8.5	5.7	4.2	4.2	5.0	5.4	5.4
142.5°	12.7	12.3	11.2	8.5	5.4	3.5	2.7	3.1	3.9	4.2	4.2
145°	8.9	8.5	7.7	5.7	3.1	1.9	1.5	2.4	2.7	3.1	3.1
147.5°	5.7	5.4	5.0	3.5	1.5	0.8	0.8	1.5	1.9	2.4	2.4
150°	3.1	3.1	2.7	1.5	0.8	0.0	0.4	0.8	1.1	1.1	1.1
152.5°	1.5	1.5	1.1	0.8	0.4	0.0	0.0	0.0	0.4	0.4	0.4
155°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.4	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	0.4	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)