

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: P266318

Luminaire Tested: **UTLD-AF24-30-D-U-T4W-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-16)
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-T4W-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2443.9 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - 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



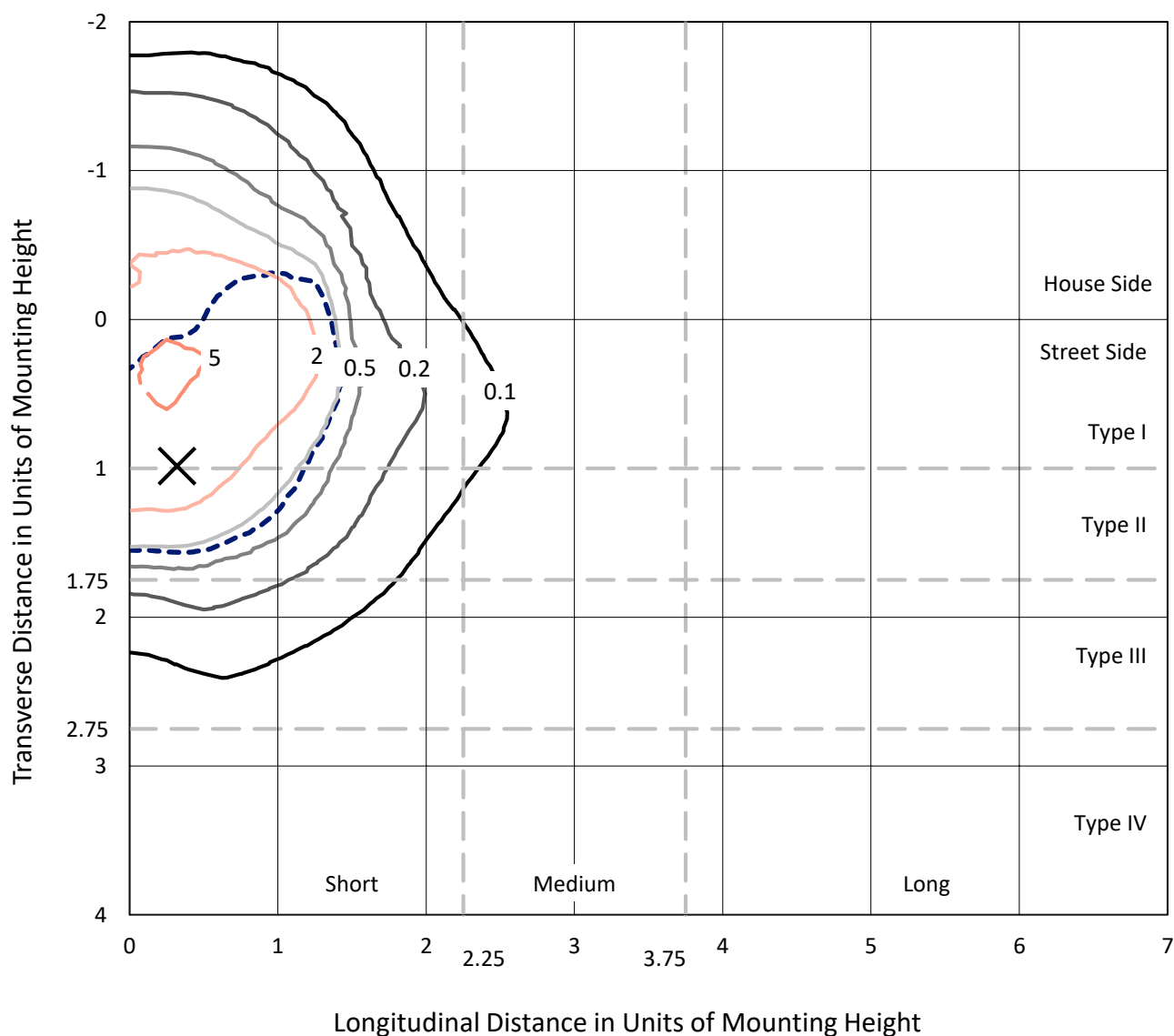
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

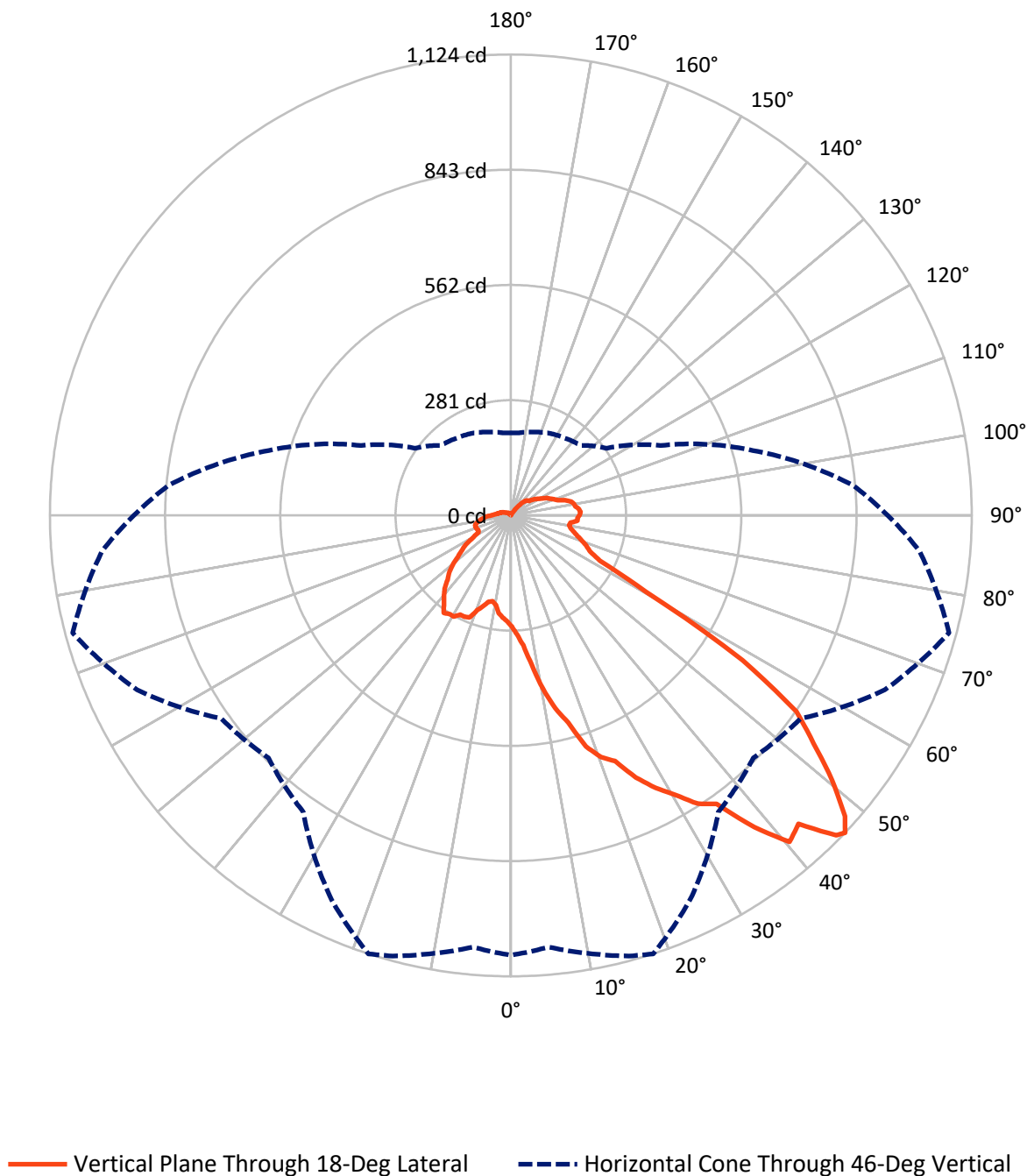


Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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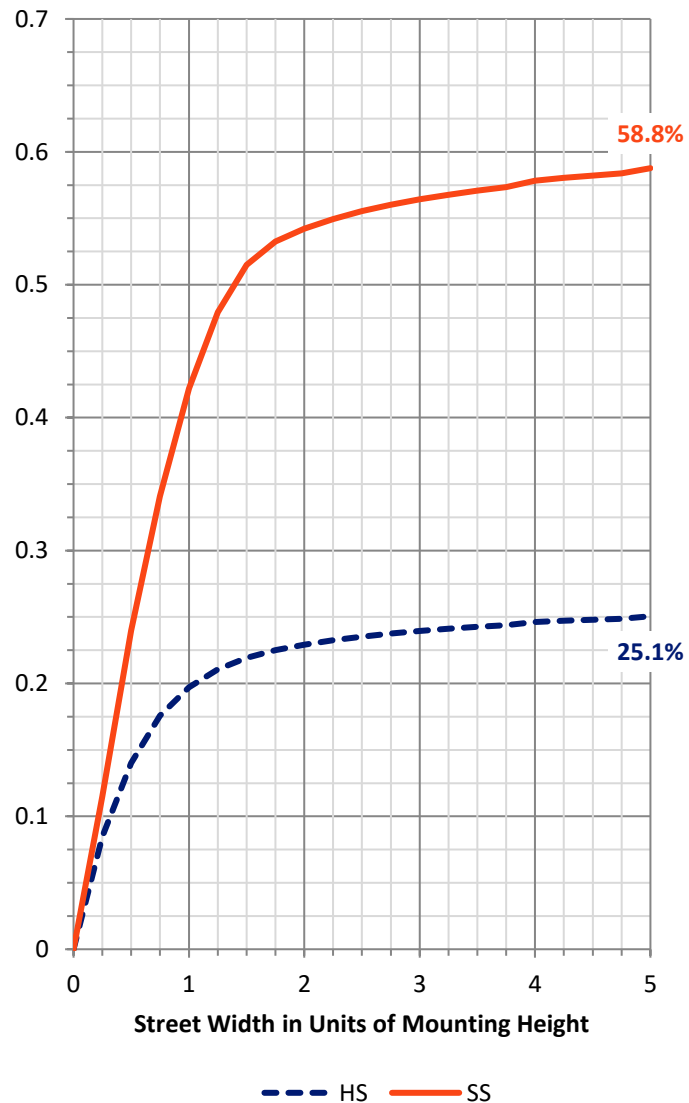
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	635.7	79.1	714.8
	% Fixture	26.0	3.2	29.3
Street Side	Lumens	1491.8	237.2	1729.0
	% Fixture	61.0	9.7	70.7
Total	Lumens	2127.5	316.4	2443.9
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	1.2
10°-20°	118.3	4.8
20°-30°	240.6	9.8
30°-40°	393.9	16.1
40°-50°	512.7	21.0
50°-60°	383.7	15.7
60°-70°	159.8	6.5
70°-80°	145.4	5.9
80°-90°	144.1	5.9
90°-100°	115.9	4.7
100°-110°	82.4	3.4
110°-120°	55.7	2.3
120°-130°	35.8	1.5
130°-140°	21.2	0.9
140°-150°	5.2	0.2
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2127.5	87.1
0°-180°	2443.9	100.0

Coefficient of Utilization



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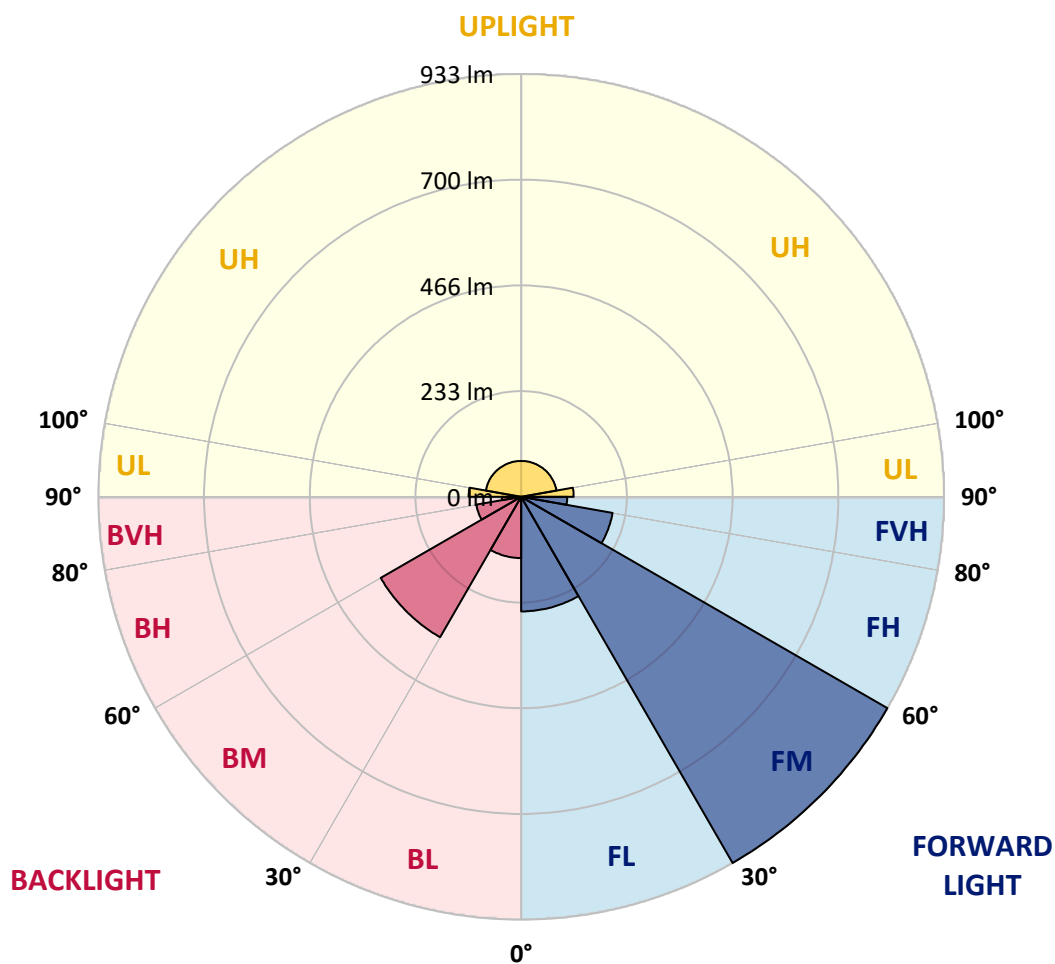
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	252.8	10.3			
FM	(30°-60°)	932.7	38.2			
FH	(60°-80°)	204.7	8.4			G0/660
FVH	(80°-90°)	101.6	4.2			G2/225
BL	(0°-30°)	135.1	5.5	B1/500		
BM	(30°-60°)	357.6	14.6	B1/1000		
BH	(60°-80°)	100.5	4.1	B0/110		G0/110
BVH	(80°-90°)	42.5	1.7			G1/100
UL	(90°-100°)	115.9	4.7		U3/500	
UH	(100°-180°)	79.1	3.2		U3/500	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
0°	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7
2.5°	291.0	289.7	290.3	290.3	288.5	287.8	286.2	284.3	281.4	278.5	275.8
5°	319.6	318.7	318.3	318.0	317.6	313.2	308.2	303.7	299.0	293.9	286.9
7.5°	372.7	372.3	370.5	367.9	364.6	357.2	348.1	343.7	337.3	329.5	318.7
10°	439.0	434.2	429.8	429.8	423.1	420.3	417.7	411.2	407.2	396.4	380.8
12.5°	476.8	474.5	483.6	482.8	491.7	507.5	513.0	518.4	493.7	462.3	433.3
15°	512.4	512.4	523.8	524.2	550.1	585.2	611.9	586.0	540.7	489.9	451.0
17.5°	560.9	564.0	580.6	591.8	626.8	687.4	669.1	621.1	553.5	493.0	449.4
20°	582.2	589.0	614.4	629.0	683.3	740.5	722.9	666.5	588.0	519.1	475.2
22.5°	595.4	600.2	629.9	650.6	720.1	768.4	765.7	708.7	634.7	548.4	497.8
25°	649.6	652.6	686.3	707.7	781.3	796.8	766.1	726.5	653.8	564.3	519.7
27.5°	667.7	668.1	720.1	752.2	812.7	807.2	767.4	750.9	714.1	643.5	613.4
30°	692.5	691.8	756.0	790.4	827.2	804.3	772.2	786.6	789.2	731.6	676.9
32.5°	722.9	720.1	796.8	838.1	849.8	803.7	780.0	804.6	840.5	780.9	722.1
35°	750.9	753.3	835.8	863.7	874.9	807.7	784.0	838.1	910.7	864.8	766.1
37.5°	931.4	928.6	954.7	964.4	936.5	821.5	799.5	879.6	986.1	966.1	860.3
40°	972.2	963.2	1040.9	1046.5	997.2	870.5	842.2	904.7	1045.5	1081.0	996.8
42.5°	937.7	935.3	1020.3	1028.0	992.4	903.7	870.2	925.0	1052.4	1081.4	941.5
45°	1089.5	1077.0	1121.3	1112.1	1013.7	889.4	852.9	902.3	1029.0	1110.5	999.6
46°	1072.2	1056.3	1112.1	1123.6	1034.0	882.3	835.8	862.5	1005.7	1105.8	1000.3
47.5°	1019.5	1020.8	1095.3	1095.9	1013.5	883.4	807.2	838.4	953.6	1045.2	904.7
50°	890.1	874.9	1010.8	1015.2	936.5	845.1	778.2	792.5	902.3	958.3	815.4
52.5°	857.1	845.1	925.3	924.5	853.6	787.0	725.2	740.1	864.1	927.9	825.9
55°	787.4	783.3	850.5	844.9	795.1	715.4	671.2	680.2	716.8	691.8	411.7
57.5°	523.2	538.7	655.0	666.1	666.5	629.0	573.5	489.3	423.5	360.2	201.4
60°	213.5	231.5	360.8	377.7	402.5	471.4	415.6	327.2	273.4	284.3	174.0
62.5°	161.2	168.0	240.9	244.0	253.4	286.9	283.5	237.2	233.5	257.2	166.5
65°	150.0	156.1	213.5	212.5	208.1	217.3	216.6	205.8	209.8	239.6	165.9
67.5°	141.9	148.0	198.3	198.7	195.0	196.6	198.0	192.6	202.1	232.8	170.3
70°	133.8	140.2	182.4	183.6	186.2	192.2	194.7	190.6	199.1	224.3	170.0
72.5°	124.1	131.2	167.7	169.3	174.7	188.6	196.6	195.7	196.6	211.9	169.3
75°	120.6	127.6	155.0	158.1	165.9	186.8	207.8	201.1	194.4	203.7	165.3
77.5°	105.8	113.8	141.9	148.7	165.9	192.2	215.2	212.9	200.4	198.3	160.8
80°	101.7	109.6	136.5	144.0	162.6	197.0	222.7	223.0	216.6	205.8	165.3
82.5°	102.3	109.9	137.9	146.3	167.7	200.4	216.6	225.0	225.7	212.2	170.3
85°	120.4	127.4	154.1	163.0	181.5	199.3	211.9	218.0	224.0	224.0	186.8
87.5°	128.4	134.8	155.0	163.0	180.7	201.7	199.8	209.8	216.0	223.7	192.6
90°	135.9	139.9	160.8	168.3	177.8	194.7	189.3	186.2	191.2	199.3	180.5
92.5°	141.3	144.9	163.5	170.0	178.0	181.7	173.7	164.8	177.4	183.9	168.0
95°	151.1	154.4	164.2	166.5	165.6	169.1	156.5	153.2	158.6	165.6	155.4
97.5°	144.3	146.7	156.1	158.8	158.1	153.2	140.6	138.6	143.3	148.7	137.5
100°	144.3	147.3	154.4	156.1	152.1	139.2	126.4	125.8	128.7	131.4	121.0
102.5°	147.3	148.7	150.0	151.1	143.5	129.4	120.0	117.6	118.7	120.0	110.5
105°	139.5	139.9	140.6	137.5	131.4	120.6	111.2	107.1	110.5	114.5	106.8
107.5°	120.6	120.4	120.6	119.7	118.9	112.6	105.8	100.7	100.7	102.0	94.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
110°	112.6	112.8	112.6	112.6	109.6	105.1	98.6	93.2	90.5	91.3	84.5
112.5°	103.0	103.0	103.5	103.8	102.0	97.9	91.5	86.1	82.9	82.1	75.6
115°	103.0	102.0	99.1	98.6	95.3	89.6	84.8	78.1	75.6	75.6	71.7
117.5°	91.9	91.3	88.9	88.3	86.1	81.4	78.7	73.3	71.7	70.6	67.0
120°	81.4	81.4	80.4	80.0	78.1	75.4	69.6	67.6	66.3	67.6	65.2
122.5°	75.6	75.6	74.0	73.3	71.0	68.9	63.9	60.1	57.9	60.5	59.2
125°	69.6	69.3	67.0	66.6	62.5	62.5	59.7	55.1	48.7	51.4	50.7
127.5°	61.2	60.8	57.9	57.4	55.1	57.9	57.1	51.1	42.2	43.9	43.9
130°	58.7	58.1	55.4	54.7	52.5	51.7	54.3	44.6	39.5	41.2	41.0
132.5°	58.7	58.1	54.7	53.7	50.0	46.4	49.0	38.8	37.9	39.9	39.5
135°	53.1	53.1	50.0	48.0	44.2	37.5	38.2	30.1	33.1	36.1	36.1
137.5°	44.9	44.9	42.0	41.2	36.8	30.1	26.9	22.9	28.0	31.4	31.8
140°	35.2	35.2	32.8	31.4	28.3	19.9	12.4	14.3	21.3	24.3	25.3
142.5°	25.3	25.1	22.9	21.3	18.2	10.8	4.0	8.2	12.4	16.6	17.8
145°	17.5	17.2	14.8	13.8	11.1	5.1	1.0	3.4	7.5	9.8	11.5
147.5°	10.5	10.5	8.9	8.4	5.7	1.3	0.7	1.0	3.8	6.1	7.0
150°	6.1	6.1	4.4	3.4	1.3	0.3	0.3	0.3	1.0	2.8	3.4
152.5°	1.3	1.3	1.0	0.7	0.7	0.3	0.0	0.3	0.3	0.3	0.7
155°	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
157.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.3	0.3	0.3	0.3
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
162.5°	0.3	0.3	0.0	0.0	0.3	0.0	0.3	0.0	0.3	0.3	0.3
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°	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7
2.5°	274.4	273.1	270.0	266.3	263.7	261.1	259.5	258.5	257.9	256.1	256.8
5°	284.6	281.9	274.7	269.0	262.9	257.5	253.4	250.7	249.6	248.4	248.4
7.5°	313.6	307.2	296.4	282.8	270.3	259.5	249.4	243.6	238.6	235.9	235.1
10°	370.7	362.2	338.9	311.3	283.9	259.5	239.9	225.7	218.9	216.6	216.6
12.5°	418.0	404.9	374.5	343.3	306.9	268.7	239.6	220.4	211.2	208.1	208.1
15°	432.3	414.9	379.2	348.7	315.9	283.9	256.8	229.1	212.5	207.5	205.8
17.5°	427.9	411.0	378.5	341.6	304.9	280.8	256.8	242.0	226.7	218.0	216.6
20°	455.9	440.3	406.6	365.3	320.1	266.3	251.0	247.8	244.0	238.2	238.2
22.5°	479.2	464.7	430.8	386.6	332.3	297.0	274.4	271.0	266.9	266.0	265.3
25°	497.1	481.5	435.3	384.2	344.7	319.0	290.0	278.5	268.7	265.5	264.6
27.5°	592.7	568.7	494.3	422.1	365.3	326.4	292.9	278.1	269.0	265.3	267.6
30°	648.8	622.9	541.4	446.4	390.0	342.7	299.0	281.4	283.9	286.9	289.3
32.5°	691.8	657.6	562.0	449.4	385.9	345.7	308.8	287.8	281.2	285.2	285.9
35°	733.9	692.5	588.7	468.7	391.3	334.6	302.1	290.0	287.8	293.3	292.3
37.5°	819.9	765.4	621.7	474.1	386.2	321.4	290.6	277.8	267.2	266.0	267.6
40°	932.0	859.0	655.0	471.7	362.6	305.6	276.0	261.5	253.4	248.4	245.3
42.5°	875.8	802.5	612.4	452.8	333.9	277.0	261.1	248.4	238.0	231.5	229.7
45°	937.4	865.7	623.2	414.7	301.1	251.7	238.9	230.1	215.7	209.6	208.4
46°	918.8	837.7	610.9	402.8	285.2	240.9	230.1	221.1	210.3	201.7	201.1
47.5°	851.2	756.6	575.2	371.0	274.4	223.0	215.7	210.3	204.5	194.7	193.2
50°	759.6	687.4	510.5	329.8	231.1	199.1	192.6	190.9	184.5	172.7	173.7
52.5°	752.6	682.6	475.5	303.4	205.2	174.5	172.4	167.3	161.9	151.4	151.1
55°	362.9	308.6	263.9	237.5	171.7	154.4	153.4	151.1	144.3	134.8	136.5
57.5°	172.0	149.7	129.4	137.3	134.8	135.6	136.3	135.9	128.1	115.3	117.9
60°	150.7	130.8	111.8	106.1	111.5	120.0	120.0	115.0	104.1	88.9	87.6
62.5°	145.3	125.4	108.2	100.4	103.0	108.2	105.5	97.3	86.4	72.7	72.0
65°	146.0	124.7	107.7	97.9	100.4	102.3	97.3	90.9	85.2	75.4	75.4
67.5°	148.9	127.4	109.1	96.9	98.6	100.0	95.3	90.5	87.1	79.8	80.4
70°	149.7	129.0	110.5	97.3	96.9	98.4	95.0	90.5	88.9	83.8	83.5
72.5°	149.7	130.4	109.1	95.0	94.3	95.0	93.0	90.5	90.2	87.1	86.4
75°	144.6	127.4	104.5	90.2	89.6	90.2	89.6	89.2	90.5	89.2	87.9
77.5°	139.5	124.3	101.0	86.4	85.5	85.2	84.8	85.2	87.1	86.1	84.1
80°	141.9	125.8	100.4	83.5	80.4	79.1	79.1	79.4	79.4	76.4	73.3
82.5°	146.0	128.1	96.9	77.8	72.7	70.2	71.0	73.3	74.3	72.0	69.6
85°	160.8	138.9	97.6	73.8	66.3	63.5	64.6	67.6	65.5	62.3	59.5
87.5°	167.3	142.7	95.6	67.6	61.5	60.5	60.5	62.3	60.8	55.4	53.1
90°	159.9	136.5	86.4	57.4	53.4	54.3	54.7	53.1	47.3	41.2	39.2
92.5°	149.7	127.6	80.0	52.7	47.3	47.0	46.6	45.6	41.2	34.5	33.1
95°	141.3	120.4	74.0	48.2	43.3	42.2	42.0	40.6	36.6	31.4	30.7
97.5°	123.0	105.1	67.3	44.6	38.8	38.2	37.9	36.1	32.5	28.7	28.3
100°	110.5	93.7	60.1	40.2	35.2	34.1	33.7	32.8	29.7	26.9	26.7
102.5°	100.4	85.9	55.8	36.8	31.4	30.1	30.1	29.5	27.7	26.1	26.1
105°	97.6	84.1	54.1	33.7	28.0	27.4	26.9	26.9	25.7	24.7	24.7
107.5°	85.9	73.8	46.6	30.1	25.3	24.7	24.7	24.7	24.3	24.0	24.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	77.3	66.6	42.8	28.0	23.6	22.6	22.6	22.6	22.6	23.4	23.4
112.5°	68.9	59.7	39.5	26.7	22.0	20.9	20.3	19.9	19.7	20.9	21.3
115°	65.2	57.1	37.9	25.3	20.9	19.9	18.5	17.8	16.9	17.8	18.2
117.5°	61.5	54.1	37.2	25.1	20.3	18.5	17.2	16.6	15.2	16.2	16.2
120°	60.5	53.7	37.9	25.3	19.7	17.2	16.2	14.6	13.8	14.6	14.8
122.5°	55.8	49.6	35.6	23.6	18.5	16.6	15.2	12.4	12.1	13.1	13.1
125°	47.3	42.6	30.7	21.3	17.5	16.2	14.8	11.1	11.5	12.1	12.4
127.5°	41.5	37.5	28.0	20.7	17.5	16.6	13.8	9.8	10.8	11.9	12.1
130°	38.8	35.8	28.0	21.3	18.2	16.9	11.5	9.2	10.2	11.1	11.1
132.5°	37.9	35.6	28.7	22.6	19.0	16.2	9.4	8.4	9.4	10.2	10.2
135°	34.9	32.8	27.4	22.0	17.2	12.8	7.5	7.5	8.9	9.4	9.4
137.5°	30.7	29.0	24.7	20.3	15.2	9.8	5.4	6.4	7.5	8.2	8.2
140°	24.7	23.6	20.3	15.9	10.8	5.4	4.0	5.1	6.1	6.7	6.7
142.5°	17.5	16.9	14.3	10.2	6.4	2.3	2.8	3.8	4.8	5.4	5.4
145°	11.5	10.8	8.9	6.4	2.8	0.7	1.6	2.8	3.8	4.0	4.0
147.5°	7.0	6.7	5.4	3.1	1.0	0.7	0.7	2.1	2.8	3.1	3.1
150°	3.8	3.4	2.3	1.0	0.3	0.3	0.3	0.7	1.6	2.1	2.3
152.5°	1.0	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.7	1.0
155°	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
157.5°	0.3	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	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.3	0.0	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)