

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: P240533

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240533
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-AF24-30-D-U-SL3-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 375mA 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: 3043.3 lumens
Efficiency: N/A
Efficacy: 98.2 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



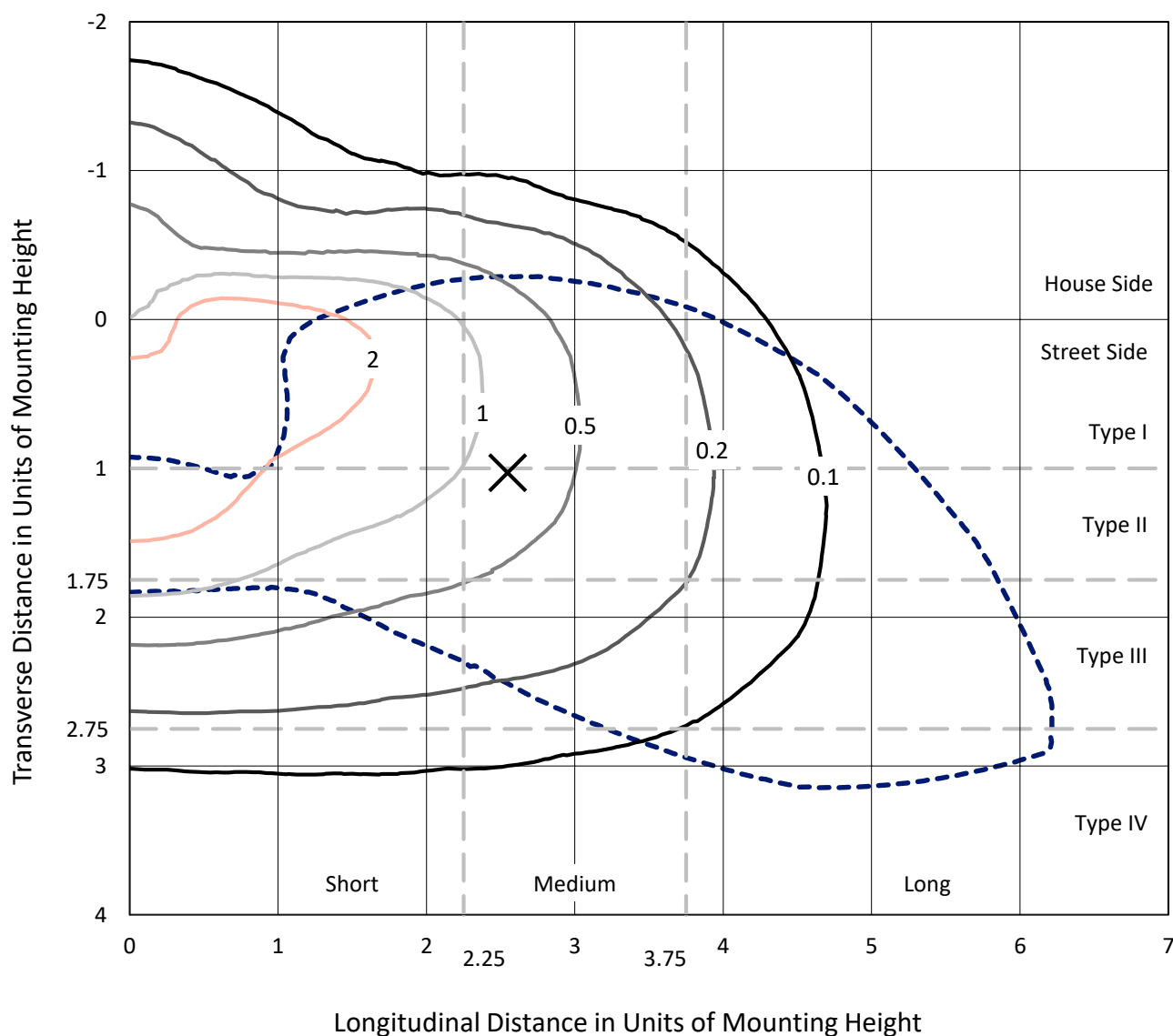
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

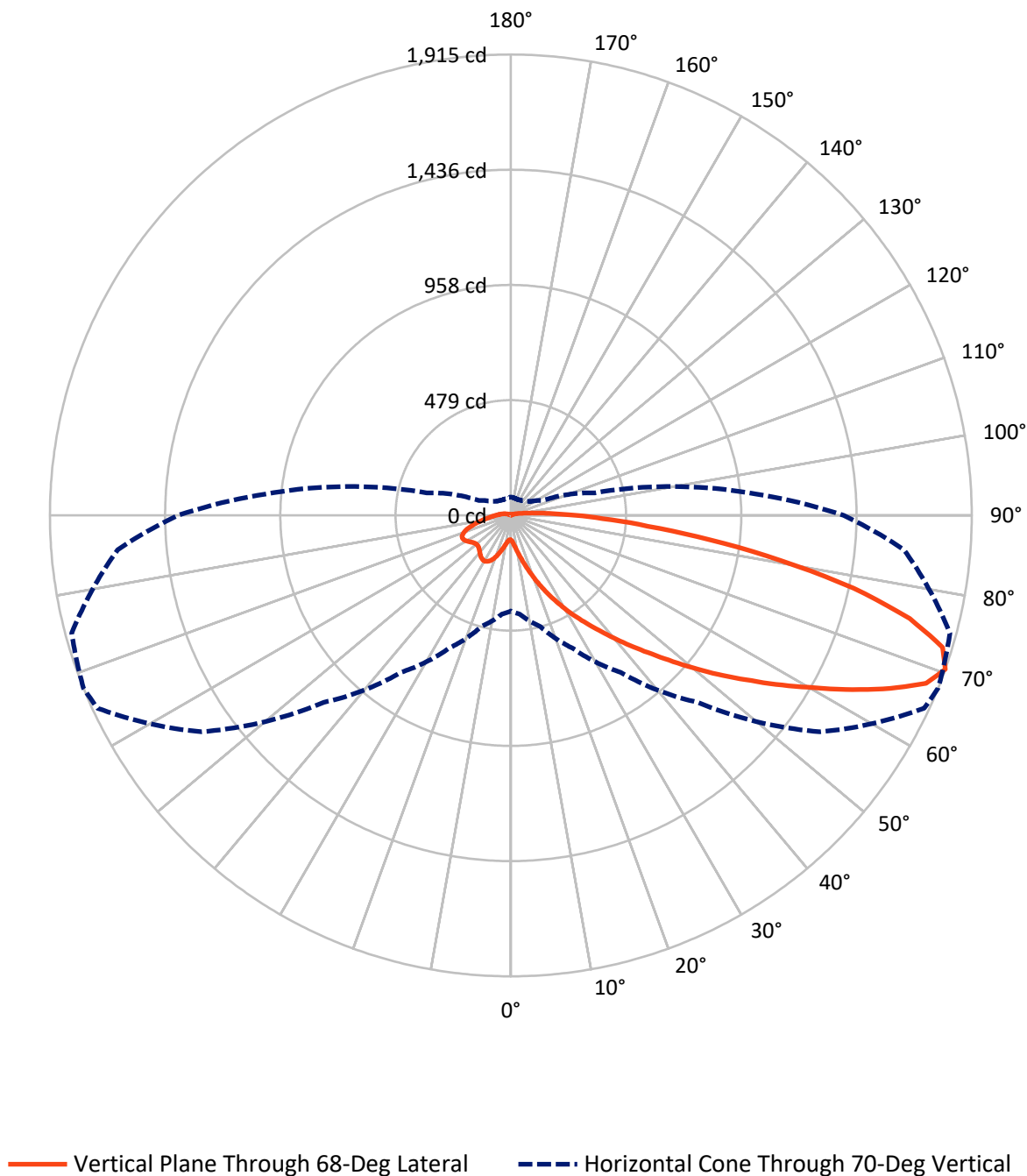


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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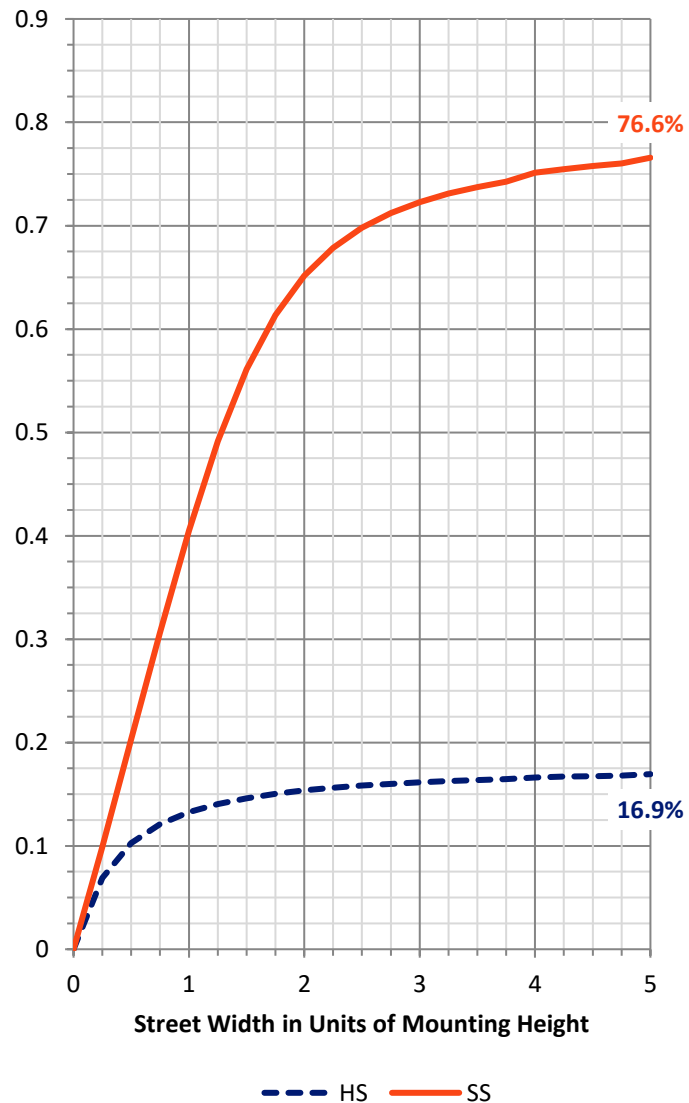
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	537.9	49.4	587.3
	% Fixture	17.7	1.6	19.3
Street Side	Lumens	2388.3	67.7	2455.9
	% Fixture	78.5	2.2	80.7
Total	Lumens	2926.2	117.1	3043.3
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.1	0.4
10°-20°	48.3	1.6
20°-30°	122.2	4.0
30°-40°	236.8	7.8
40°-50°	399.2	13.1
50°-60°	596.9	19.6
60°-70°	723.7	23.8
70°-80°	564.6	18.6
80°-90°	223.4	7.3
90°-100°	68.4	2.2
100°-110°	26.9	0.9
110°-120°	11.9	0.4
120°-130°	5.9	0.2
130°-140°	2.9	0.1
140°-150°	0.9	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2926.2	96.2
0°-180°	3043.3	100.0

Coefficient of Utilization



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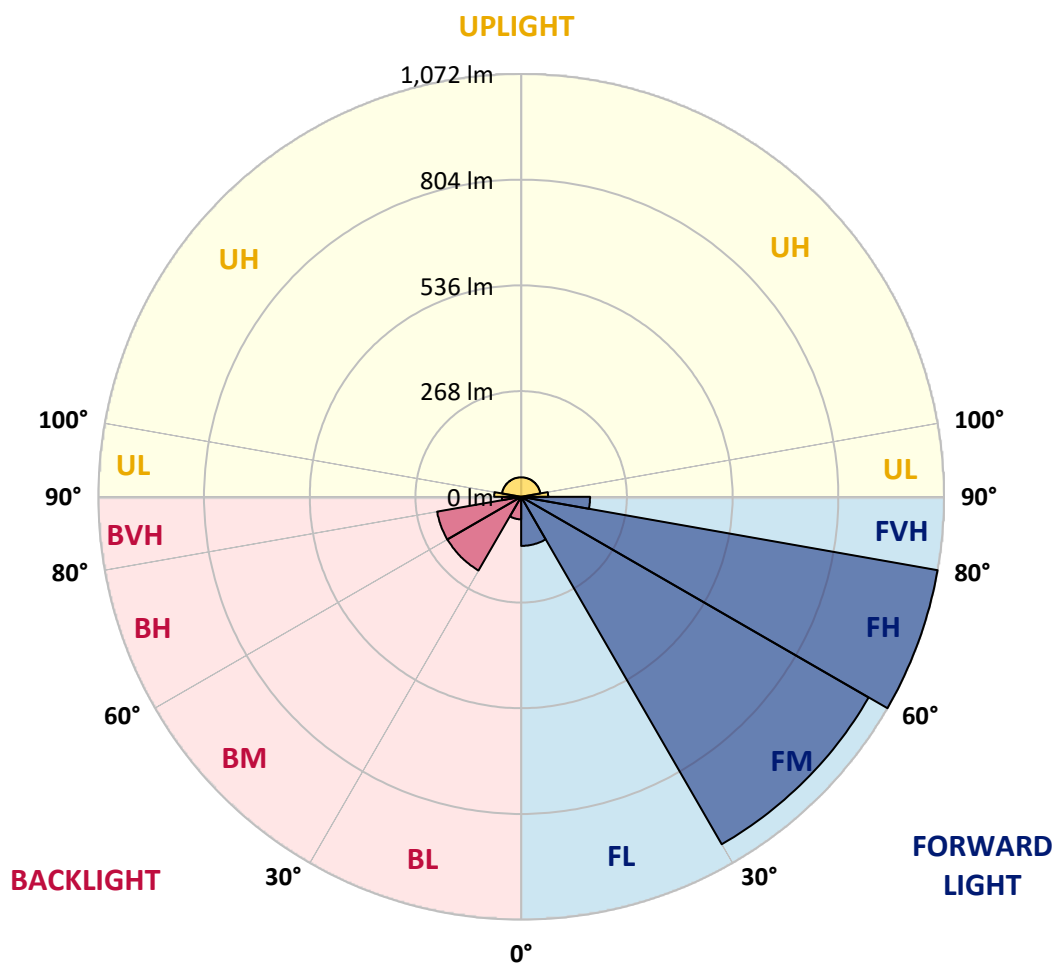
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	124.4	4.1			
FM	(30°-60°)	1017.2	33.4			
FH	(60°-80°)	1072.0	35.2			G1/1800
FVH	(80°-90°)	174.6	5.7			G2/225
BL	(0°-30°)	57.2	1.9	B0/110		
BM	(30°-60°)	215.6	7.1	B0/220		
BH	(60°-80°)	216.3	7.1	B1/500		G1/500
BVH	(80°-90°)	48.8	1.6			G1/100
UL	(90°-100°)	68.4	2.2		U3/500	
UH	(100°-180°)	49.4	1.6		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°	68°	75°	85°
0°	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3
2.5°	113.8	114.2	114.2	113.0	112.6	111.4	109.5	108.6	107.8	107.0	105.5
5°	128.9	128.9	128.1	126.9	125.3	124.2	122.1	119.8	119.4	116.6	113.8
7.5°	146.0	146.4	146.8	144.8	142.4	140.5	138.1	134.9	134.1	131.3	126.1
10°	168.7	169.1	168.3	166.3	163.2	160.7	157.9	154.8	153.5	151.2	144.0
12.5°	196.2	195.8	193.3	190.6	187.0	184.2	180.7	178.3	177.5	175.0	167.5
15°	225.2	226.8	224.0	217.7	213.3	208.9	207.2	207.2	208.1	205.3	198.1
17.5°	262.6	263.8	259.0	250.3	243.2	238.3	236.7	239.9	241.1	242.3	235.9
20°	306.0	306.4	298.8	286.4	273.7	267.8	268.2	275.7	278.5	282.8	275.4
22.5°	358.9	355.7	344.9	325.9	307.6	298.0	301.6	316.7	319.1	328.3	324.3
25°	414.2	413.8	395.9	370.4	343.8	331.4	337.4	356.1	362.8	376.8	371.6
27.5°	477.8	476.3	453.2	421.8	385.6	367.2	372.5	399.1	407.0	430.5	424.9
30°	545.5	545.8	518.8	475.1	430.2	404.7	407.9	444.9	455.2	482.2	480.7
32.5°	626.3	621.4	591.3	534.0	478.6	444.1	448.5	491.4	505.7	538.0	533.2
35°	707.5	701.4	661.2	598.4	529.2	488.2	490.2	541.1	556.3	598.0	588.9
37.5°	782.3	779.1	738.9	666.5	585.6	537.2	539.5	594.4	613.6	660.1	649.0
40°	862.7	862.7	821.6	742.9	648.6	590.0	593.6	653.8	676.8	727.7	709.0
42.5°	947.8	945.0	901.6	812.4	711.1	646.9	654.1	720.6	746.4	800.6	781.4
45°	1031.7	1025.7	980.8	888.0	773.5	711.1	721.8	793.8	820.8	889.7	863.0
47.5°	1104.1	1097.7	1053.5	956.2	839.1	777.4	792.6	878.9	907.6	989.5	949.0
50°	1155.8	1153.9	1110.9	1010.3	897.6	845.9	877.7	969.7	1003.8	1086.6	1048.4
52.5°	1186.1	1182.5	1148.3	1059.2	956.2	916.7	965.3	1068.3	1104.5	1193.7	1149.1
55°	1179.4	1176.9	1152.7	1085.0	1001.9	984.8	1062.3	1178.1	1212.0	1308.3	1255.3
57.5°	1126.0	1129.2	1122.0	1086.6	1035.6	1055.2	1161.8	1293.9	1329.7	1423.6	1367.1
60°	1030.9	1029.7	1050.0	1056.0	1049.2	1116.0	1282.0	1426.0	1453.4	1548.1	1476.1
62.5°	890.5	887.3	931.4	988.4	1039.2	1167.4	1390.2	1566.9	1594.3	1670.7	1576.8
65°	718.2	732.5	787.8	881.7	989.9	1186.8	1495.2	1710.5	1733.2	1773.8	1656.0
67.5°	544.3	558.2	629.8	748.8	907.6	1164.2	1562.0	1839.4	1861.3	1872.0	1690.6
70°	397.5	411.0	478.6	609.2	795.8	1098.5	1567.3	1895.1	1915.0	1888.8	1639.7
72.5°	282.8	290.0	348.1	471.9	668.4	983.6	1502.0	1859.3	1875.6	1802.7	1505.2
75°	200.1	203.4	253.5	358.9	544.3	853.4	1346.8	1698.9	1711.7	1620.1	1280.0
77.5°	136.5	143.6	183.4	273.7	436.5	700.6	1141.5	1456.7	1456.7	1340.5	1012.6
80°	96.7	102.7	131.7	204.5	341.8	561.4	922.3	1157.5	1139.2	1007.4	729.7
82.5°	69.7	74.4	97.5	156.0	265.4	443.7	699.9	857.0	832.0	703.1	482.2
85°	50.5	55.3	74.0	114.6	203.4	344.1	524.4	595.3	570.6	466.0	313.1
87.5°	37.0	40.2	55.3	86.3	154.0	260.6	384.7	404.3	382.4	301.2	200.9
90°	26.3	29.1	42.1	65.3	115.4	195.8	270.2	265.4	241.5	189.3	132.9
92.5°	19.1	21.1	31.4	49.7	85.9	143.6	185.8	171.4	157.9	121.7	92.3
95°	14.3	16.0	24.7	38.6	63.2	101.1	125.3	112.6	102.3	83.2	68.0
97.5°	11.6	12.7	20.3	31.0	48.9	73.7	86.7	74.4	69.7	60.0	52.5
100°	9.9	10.7	17.1	25.9	38.6	55.3	61.3	52.2	49.3	45.3	41.0
102.5°	9.1	9.5	15.1	22.3	31.4	41.4	44.2	39.0	37.0	34.6	32.2
105°	8.4	8.8	13.5	19.5	26.7	32.2	33.9	29.9	28.6	26.3	24.7
107.5°	8.0	8.0	12.0	17.1	22.7	26.7	26.7	23.4	22.3	19.8	19.1
110°	7.6	7.6	10.7	15.5	19.5	22.7	21.9	18.7	17.5	15.1	14.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	7.2	7.2	9.9	13.5	17.1	19.1	18.3	15.1	13.9	11.6	11.6
115°	6.8	6.8	8.8	12.0	15.1	16.3	15.5	12.4	11.6	9.1	9.5
117.5°	6.8	6.8	8.4	10.7	13.1	14.3	13.1	9.9	9.1	7.6	8.4
120°	6.3	6.3	7.6	9.5	11.6	12.4	11.2	8.4	7.6	6.3	7.2
122.5°	6.3	6.3	7.2	8.4	10.3	10.7	9.5	7.2	6.3	5.5	6.3
125°	5.9	5.9	6.8	7.6	8.8	9.1	8.0	5.9	5.5	5.2	5.5
127.5°	5.9	5.9	6.3	6.8	8.0	8.0	6.8	4.8	4.8	4.4	5.2
130°	5.5	5.9	5.9	6.3	6.8	6.8	5.5	4.0	4.0	4.0	4.8
132.5°	5.5	5.5	5.5	5.5	5.9	5.5	4.4	3.6	3.6	3.6	4.4
135°	5.2	5.2	5.2	5.2	4.8	4.4	3.6	2.8	2.8	3.2	4.0
137.5°	5.2	5.2	4.8	4.4	4.4	3.6	2.8	2.4	2.4	3.2	3.6
140°	4.8	4.8	4.4	4.0	3.2	2.8	1.9	1.9	1.9	2.4	2.8
142.5°	4.0	4.0	4.0	3.2	2.4	1.6	1.2	1.2	1.6	1.9	2.4
145°	3.6	3.6	3.2	2.8	1.6	0.8	0.4	0.8	1.2	1.6	1.9
147.5°	2.8	2.8	2.4	1.9	0.8	0.4	0.0	0.4	0.8	0.8	1.2
150°	1.9	1.9	1.9	1.2	0.4	0.0	0.0	0.4	0.4	0.4	0.8
152.5°	1.6	1.6	1.2	0.8	0.0	0.0	0.0	0.0	0.4	0.4	0.4
155°	0.8	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4
157.5°	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.4	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°	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3
2.5°	104.2	103.8	101.9	100.2	98.3	96.7	95.1	93.9	93.5	92.7	93.1
5°	111.4	109.9	105.9	102.3	98.3	94.7	91.6	89.1	87.2	86.3	85.9
7.5°	123.8	121.3	114.2	107.8	101.5	95.1	89.9	85.9	83.6	81.9	81.9
10°	141.7	136.5	127.4	116.6	105.9	96.7	89.5	84.0	80.4	79.2	79.2
12.5°	163.6	157.9	143.6	127.4	112.2	99.4	89.9	84.0	80.4	78.8	78.4
15°	192.6	184.2	163.2	140.0	118.2	101.9	90.3	84.4	81.9	81.1	81.1
17.5°	226.8	216.5	185.8	154.0	124.9	103.0	91.6	86.7	85.5	85.5	85.5
20°	267.4	252.3	211.2	166.3	129.7	104.2	92.3	88.7	88.7	89.5	89.9
22.5°	310.8	291.6	235.9	177.9	131.3	105.1	91.9	89.5	91.6	93.5	93.9
25°	356.9	330.2	258.2	185.1	132.1	103.0	90.7	89.9	93.9	96.7	97.5
27.5°	405.8	369.6	277.3	187.8	129.7	99.4	88.7	89.1	95.1	99.0	99.8
30°	450.8	406.6	292.5	187.0	124.5	95.1	86.3	88.0	95.1	100.7	101.9
32.5°	497.4	443.2	301.6	183.4	118.2	90.3	83.6	86.7	94.7	101.1	102.3
35°	543.9	475.5	306.0	176.3	111.0	85.9	80.8	84.7	93.5	100.7	101.5
37.5°	590.4	507.3	307.2	167.2	104.6	82.3	78.8	83.6	91.6	99.8	101.1
40°	640.6	538.7	304.7	157.9	98.7	80.0	77.2	81.9	89.9	98.7	100.2
42.5°	696.7	572.1	302.0	148.8	94.7	78.4	76.0	80.4	87.6	97.5	99.4
45°	759.1	608.8	300.4	141.7	92.3	77.5	75.6	79.2	86.3	96.7	98.7
47.5°	826.4	654.9	302.0	136.9	91.1	77.9	75.6	78.4	84.7	95.1	97.5
50°	908.4	707.8	308.0	133.3	90.7	78.4	76.0	77.5	83.2	92.7	95.1
52.5°	993.1	761.9	317.5	132.5	91.1	79.2	76.4	77.2	80.8	89.5	91.6
55°	1081.1	833.6	333.8	133.7	91.9	80.4	76.8	76.4	78.8	85.5	88.0
57.5°	1180.5	908.0	354.1	136.5	93.1	81.1	77.2	75.6	76.4	81.9	84.0
60°	1279.2	983.6	374.8	140.0	95.4	82.3	77.5	75.2	75.2	79.6	81.1
62.5°	1368.7	1050.0	391.9	144.8	97.5	83.2	77.5	74.4	74.0	77.5	79.2
65°	1430.0	1085.0	395.9	147.6	99.4	83.6	76.8	73.7	73.2	76.0	77.5
67.5°	1446.2	1079.4	387.9	148.8	100.7	83.6	76.8	72.8	73.2	75.6	76.8
70°	1382.6	1021.7	361.7	146.4	100.2	83.2	76.0	72.0	72.8	75.2	76.0
72.5°	1230.6	902.3	321.1	140.5	98.3	81.5	74.4	70.8	72.0	74.8	75.6
75°	1032.9	747.6	272.9	130.9	94.7	79.6	72.8	69.3	71.2	74.0	74.4
77.5°	794.5	573.0	223.2	118.6	89.9	76.8	70.4	66.8	69.7	72.8	72.4
80°	564.2	417.8	176.3	105.9	83.6	72.8	67.2	64.0	67.2	70.4	69.7
82.5°	388.7	283.3	140.9	93.5	76.8	68.4	63.6	60.9	64.4	67.2	66.1
85°	254.6	191.4	111.0	81.9	70.4	64.0	59.6	56.9	60.5	62.9	61.3
87.5°	164.3	133.3	88.7	71.2	63.6	59.3	55.3	52.9	56.5	58.5	56.9
90°	114.2	97.1	73.2	61.7	57.3	54.1	50.9	48.6	51.8	53.3	52.5
92.5°	81.5	74.4	60.9	54.1	51.8	48.9	46.1	44.2	47.4	48.6	47.8
95°	63.6	59.3	51.8	47.8	46.5	44.6	41.7	39.8	42.1	43.0	42.6
97.5°	50.9	48.9	44.6	42.1	41.4	39.8	37.8	35.8	37.4	37.8	37.4
100°	41.0	40.2	38.2	37.0	36.6	35.4	33.5	31.8	32.6	32.2	32.2
102.5°	32.6	32.6	32.2	31.8	31.8	30.6	29.1	27.4	27.4	26.7	26.7
105°	25.9	26.7	26.7	27.0	27.4	26.7	25.1	23.1	22.7	21.5	21.5
107.5°	20.3	21.1	22.3	22.7	23.1	22.3	21.1	19.1	17.9	16.7	17.1
110°	16.0	16.7	18.3	19.1	19.5	19.1	17.5	16.0	13.9	13.1	13.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	12.4	13.5	15.1	16.0	16.3	16.0	14.3	12.7	10.7	10.3	10.3
115°	10.3	11.2	12.7	13.5	13.5	13.1	12.0	9.9	8.4	8.0	8.4
117.5°	8.8	9.5	10.7	11.6	11.6	11.2	9.9	8.0	6.8	6.8	6.8
120°	7.6	8.4	9.1	9.9	9.9	9.5	8.4	6.3	5.5	5.5	5.5
122.5°	6.8	7.2	8.0	8.4	8.4	8.0	6.8	5.2	4.4	4.8	4.8
125°	5.9	6.3	7.2	7.6	7.2	6.8	5.5	4.0	3.6	4.0	4.0
127.5°	5.5	5.9	6.3	6.3	6.3	5.5	4.8	3.2	3.2	3.6	3.6
130°	5.2	5.2	5.5	5.5	5.2	4.8	3.6	2.4	2.4	3.2	3.2
132.5°	4.8	4.8	5.2	4.8	4.8	4.0	2.8	1.9	2.4	2.8	2.8
135°	4.0	4.0	4.4	4.4	3.6	3.2	1.9	1.6	1.6	1.9	2.4
137.5°	3.6	4.0	4.0	3.6	3.2	2.4	1.6	1.2	1.6	1.6	1.9
140°	3.2	3.2	3.2	2.8	2.4	1.6	0.8	0.8	1.2	1.2	1.2
142.5°	2.4	2.8	2.8	2.4	1.6	0.8	0.4	0.4	0.8	0.8	0.8
145°	1.9	1.9	1.9	1.6	1.2	0.8	0.4	0.4	0.4	0.4	0.4
147.5°	1.2	1.6	1.6	1.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0
150°	0.8	0.8	1.2	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.0
152.5°	0.4	0.8	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.4	0.4	0.8	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.4	0.4	0.4	0.4	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)