

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: P241073

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-48)
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-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3142.5 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U2 - G1

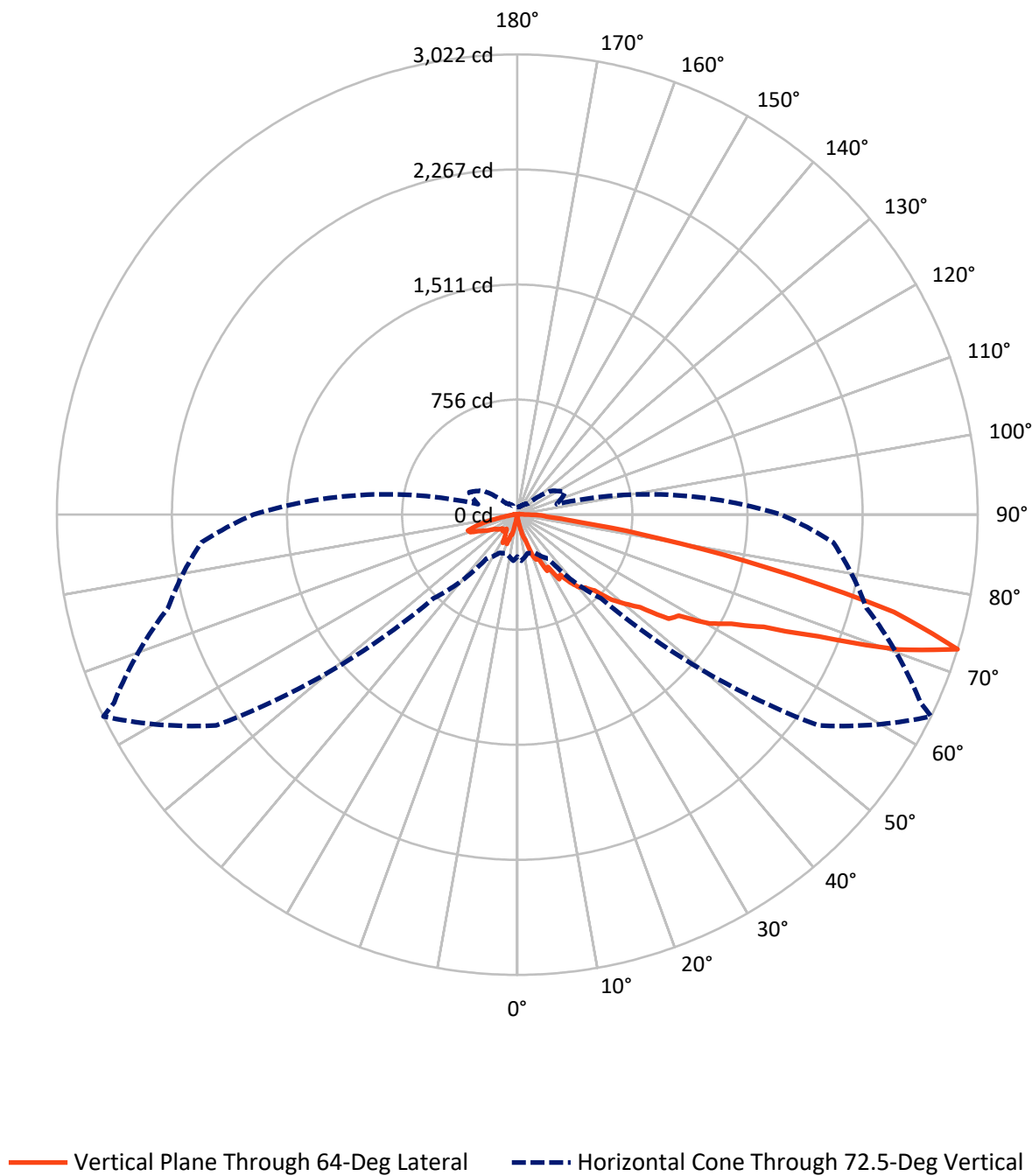
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Luminous Intensity Polar Plot



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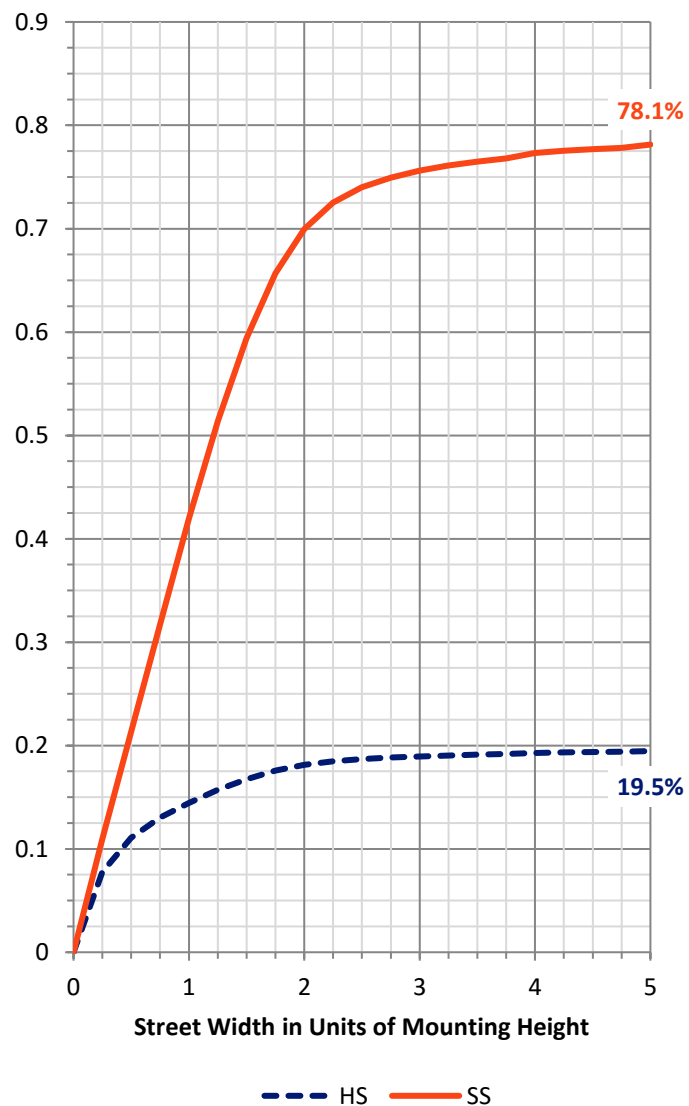
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	622.1	19.4	641.4
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	2481.0	20.0	2501.1
	% Fixture	79.0	0.6	79.6
Total	Lumens	3103.1	39.4	3142.5
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.1
10°-20°	42.0	1.3
20°-30°	123.5	3.9
30°-40°	244.9	7.8
40°-50°	422.6	13.4
50°-60°	683.1	21.7
60°-70°	865.7	27.5
70°-80°	620.3	19.7
80°-90°	97.3	3.1
90°-100°	19.6	0.6
100°-110°	8.7	0.3
110°-120°	4.5	0.1
120°-130°	3.3	0.1
130°-140°	2.1	0.1
140°-150°	1.0	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3103.1	98.7
0°-180°	3142.5	100.0

Coefficient of Utilization



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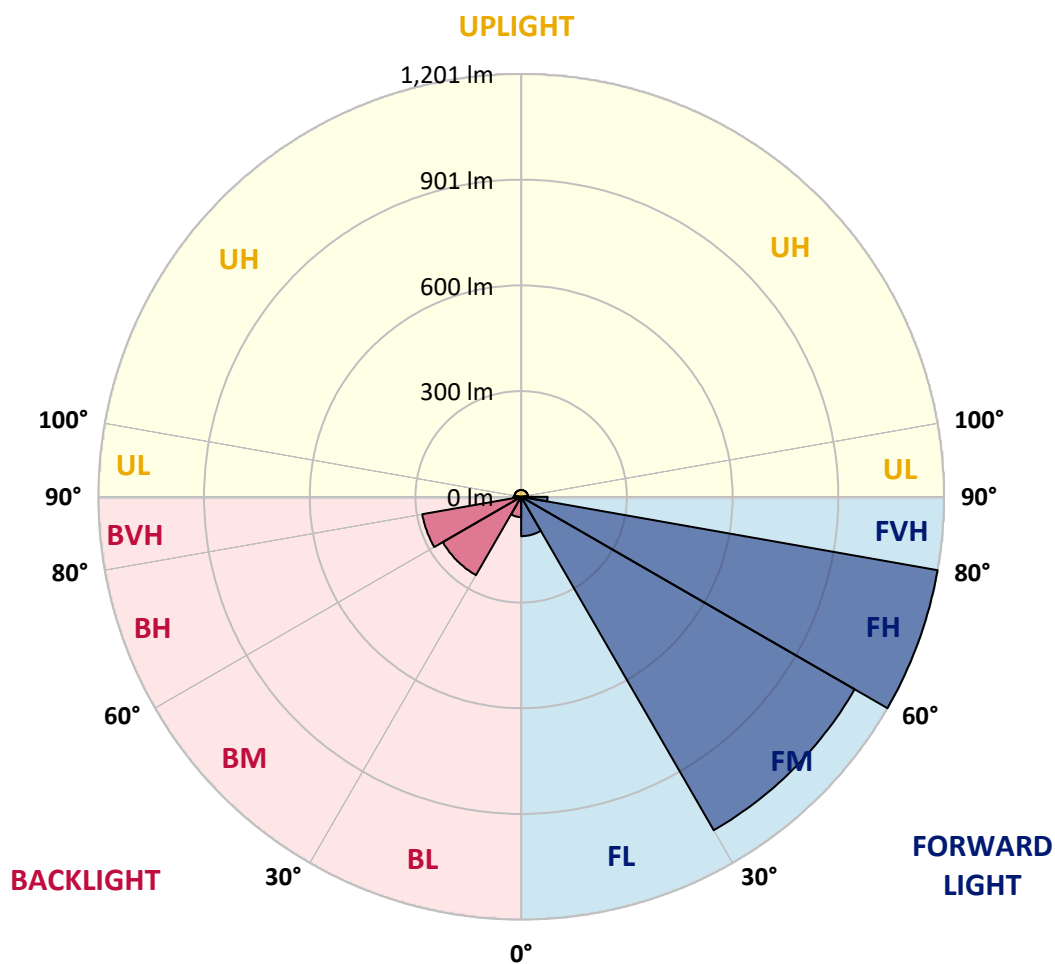
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	111.7	3.6			
FM	(30°-60°)	1093.5	34.8			
FH	(60°-80°)	1200.9	38.2			G1/1800
FVH	(80°-90°)	74.9	2.4			G1/100
BL	(0°-30°)	57.6	1.8	B0/110		
BM	(30°-60°)	257.0	8.2	B1/1000		
BH	(60°-80°)	285.1	9.1	B1/500		G1/500
BVH	(80°-90°)	22.4	0.7			G1/100
UL	(90°-100°)	19.6	0.6		U2/50	
UH	(100°-180°)	19.4	0.6		U2/50	

BUG Rating: B1-U2-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
2.5°	21.9	19.5	20.3	17.9	15.1	12.4	10.3	9.1	9.1	8.8	8.0
5°	76.0	77.5	87.2	73.2	66.5	86.7	24.2	13.9	13.1	9.1	7.6
7.5°	101.5	106.3	76.0	63.2	59.3	95.5	71.2	39.0	32.2	12.0	8.4
10°	192.2	179.0	120.9	132.1	123.0	78.4	52.2	53.3	48.9	19.5	13.5
12.5°	171.9	173.9	177.9	161.5	166.3	123.4	63.2	103.8	111.0	124.9	117.3
15°	200.5	192.2	161.5	175.8	167.6	195.0	164.0	152.8	167.9	172.7	143.6
17.5°	272.1	266.2	309.1	210.8	153.2	219.2	195.0	178.6	169.9	189.3	228.8
20°	250.3	250.6	268.5	238.3	247.5	201.7	196.2	288.5	346.2	328.3	319.1
22.5°	376.8	365.3	303.6	236.7	261.4	231.2	275.8	321.9	305.6	298.0	321.9
25°	366.0	370.4	352.1	355.7	261.8	309.1	287.2	307.2	326.6	468.7	528.4
27.5°	450.0	425.3	404.3	368.5	360.5	290.8	277.7	417.4	428.5	469.9	495.4
30°	592.1	579.7	541.1	420.5	376.4	312.7	380.0	399.5	406.6	553.1	684.4
32.5°	751.6	706.2	594.8	550.2	409.4	386.0	357.7	505.3	496.9	613.2	691.5
35°	869.0	841.9	736.9	598.4	492.1	412.7	481.4	485.8	528.4	641.8	697.9
37.5°	844.3	851.9	808.5	714.2	541.6	446.0	520.9	565.8	569.8	695.1	739.7
40°	908.4	913.2	898.0	792.6	624.7	513.3	585.3	627.5	594.0	760.8	790.6
42.5°	945.8	953.4	982.3	906.4	704.7	586.9	686.4	656.5	627.1	817.2	899.3
45°	1027.3	1023.4	1036.1	945.8	823.3	738.5	720.6	711.5	722.6	918.7	1003.9
47.5°	1141.1	1157.1	1094.1	964.8	912.4	775.9	816.4	834.0	876.2	1050.1	1110.1
50°	1309.5	1289.1	1213.9	1049.6	1000.2	825.2	1000.2	919.9	898.0	1169.7	1268.9
52.5°	1377.9	1364.7	1258.1	1085.5	1055.2	918.7	1031.3	1011.1	1003.5	1335.4	1445.5
55°	1404.9	1395.4	1351.2	1091.8	1104.9	1058.3	1182.9	1206.4	1193.7	1440.3	1623.8
57.5°	1333.3	1349.3	1352.4	1117.7	1138.7	1074.7	1421.3	1251.4	1342.5	1572.1	1762.2
60°	1236.2	1237.1	1279.2	1114.5	1170.2	1179.0	1472.9	1449.9	1535.0	1641.7	1800.5
62.5°	996.4	1024.6	1094.1	1092.2	1213.9	1314.2	1727.3	1578.4	1611.9	1712.5	1920.2
65°	660.9	676.0	760.4	905.6	1136.0	1422.0	1936.1	1778.2	1825.6	1847.3	2094.5
67.5°	394.3	413.0	424.9	578.6	948.6	1443.6	2369.5	2132.6	2089.7	2051.5	2269.1
70°	329.5	341.8	307.2	346.2	579.7	1310.6	2578.3	2651.5	2511.9	2327.6	2306.1
72.5°	276.1	303.2	261.8	276.9	352.9	777.9	2413.6	3022.0	2920.5	2373.8	2080.6
75°	204.9	242.7	218.1	248.7	325.9	399.5	1821.2	2553.7	2521.8	2057.5	1544.2
77.5°	160.0	166.7	136.5	187.8	313.1	330.2	1092.6	1683.5	1656.1	1311.8	716.2
80°	112.2	115.0	107.8	97.9	241.9	309.5	553.4	933.4	875.3	407.4	237.9
82.5°	70.8	75.6	84.4	66.5	117.3	288.9	305.1	411.0	366.0	138.5	118.2
85°	42.6	46.5	52.2	46.5	54.9	220.9	236.3	211.2	192.9	84.4	74.8
87.5°	24.7	25.9	31.4	32.2	41.0	128.5	188.6	157.1	138.1	56.1	48.6
90°	17.1	16.0	16.0	16.7	21.1	56.1	92.3	54.9	55.3	29.5	25.5
92.5°	13.1	13.1	14.3	14.3	20.3	49.3	42.6	29.5	27.8	24.7	20.3
95°	9.9	10.7	10.7	11.6	13.9	15.1	21.1	21.9	21.9	22.3	17.9
97.5°	8.4	9.1	9.1	9.5	11.2	11.6	14.7	19.1	19.1	18.7	14.7
100°	8.0	8.4	8.0	8.0	9.1	8.8	12.0	16.3	17.1	16.3	12.7
102.5°	7.6	8.0	7.2	6.3	8.0	6.3	9.9	14.7	15.1	12.0	9.9
105°	7.6	7.6	6.3	5.2	6.3	5.2	8.4	10.3	10.3	8.4	9.5
107.5°	7.6	7.2	5.5	4.4	4.8	4.4	6.8	6.8	6.8	6.3	9.1
110°	6.8	6.3	5.2	4.0	3.6	3.6	4.8	4.8	4.8	5.5	9.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	5.9	5.5	4.4	3.2	2.8	2.8	3.2	3.6	3.6	5.2	8.8
115°	5.2	5.2	4.0	3.2	2.4	2.4	2.8	3.2	3.2	4.8	8.4
117.5°	5.2	5.2	3.6	2.8	1.9	1.9	2.4	2.8	2.8	4.8	8.8
120°	5.2	5.2	3.6	2.4	1.9	1.6	1.9	2.4	2.4	5.2	9.1
122.5°	4.8	4.8	3.6	2.4	1.6	1.6	1.6	2.4	2.4	4.8	8.4
125°	4.8	4.8	3.2	2.4	1.6	1.6	1.6	1.9	2.4	5.2	8.4
127.5°	4.4	4.4	3.6	2.4	1.6	1.2	1.6	1.9	1.9	4.8	8.0
130°	4.4	4.4	3.2	1.9	1.2	1.2	1.2	1.6	1.9	4.4	7.2
132.5°	4.0	4.0	2.8	1.9	1.2	0.8	1.2	1.6	1.6	4.0	6.3
135°	4.0	4.0	3.2	1.9	1.2	0.8	1.2	1.6	1.6	3.6	5.5
137.5°	3.6	3.6	2.8	1.9	1.2	0.8	0.8	1.2	1.6	3.6	5.2
140°	3.6	3.6	3.2	2.4	1.2	0.8	0.8	1.2	1.2	2.8	4.0
142.5°	4.0	4.0	3.2	1.9	1.2	0.8	0.8	0.8	1.2	1.9	3.2
145°	3.6	3.6	2.8	1.9	1.2	0.4	0.4	0.8	1.2	1.9	2.8
147.5°	3.6	3.6	3.2	1.9	0.8	0.4	0.4	0.8	0.8	1.6	2.4
150°	3.2	3.2	2.4	1.2	0.4	0.0	0.4	0.8	0.8	1.2	1.9
152.5°	2.4	2.4	1.6	0.8	0.0	0.0	0.0	0.4	0.4	0.8	1.2
155°	1.2	1.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8
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°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
2.5°	8.0	8.0	8.0	8.0	7.6	7.6	7.2	7.2	7.2	7.2	7.2
5°	7.6	7.6	7.6	7.2	6.8	6.3	6.8	6.3	6.3	6.3	6.3
7.5°	8.0	8.0	7.2	6.8	6.8	6.8	8.8	52.9	117.0	100.2	104.2
10°	14.7	13.9	12.0	9.9	9.1	52.5	100.2	92.0	70.1	58.5	60.0
12.5°	146.0	131.3	84.7	58.9	67.6	69.7	62.9	68.8	112.2	102.7	103.0
15°	146.0	149.6	122.5	138.1	119.4	55.8	107.4	128.1	124.5	114.6	120.2
17.5°	246.7	245.1	152.8	140.5	115.4	116.6	101.1	88.0	81.5	80.4	81.5
20°	365.7	304.7	291.2	212.1	129.7	119.0	83.6	70.8	90.3	111.4	114.2
22.5°	321.9	321.9	261.4	189.3	160.4	101.9	91.1	90.3	108.2	107.0	112.2
25°	543.5	472.3	338.6	182.6	140.0	103.4	92.3	84.0	94.3	108.6	107.4
27.5°	501.3	465.1	334.6	219.6	109.9	112.6	85.1	82.8	106.3	114.2	115.0
30°	632.6	582.9	338.2	165.1	110.6	86.7	78.8	84.4	88.7	96.3	97.1
32.5°	655.3	593.2	324.7	148.8	116.6	83.6	80.0	79.6	90.3	103.8	105.1
35°	641.4	569.4	306.0	125.3	117.0	84.4	81.9	90.7	82.8	96.7	98.7
37.5°	736.9	581.3	276.1	117.0	107.4	86.7	107.4	86.7	86.3	90.7	91.6
40°	735.7	607.9	242.3	142.8	107.4	142.8	112.2	90.3	77.5	85.1	85.5
42.5°	794.9	623.1	212.5	147.2	115.8	165.5	104.6	88.0	92.3	97.1	101.9
45°	863.4	670.9	199.0	132.5	130.5	128.1	109.0	114.6	83.6	134.1	139.6
47.5°	957.0	732.1	180.7	129.7	177.1	128.9	207.7	106.6	92.0	158.8	161.9
50°	1096.6	839.9	182.2	142.4	162.3	138.1	139.6	115.8	124.2	165.1	165.9
52.5°	1245.3	930.3	171.4	157.1	159.6	169.5	148.8	173.1	122.1	158.8	158.8
55°	1377.1	1063.6	176.7	165.5	166.7	147.6	209.7	127.8	121.7	159.6	163.6
57.5°	1549.0	1206.0	212.1	173.1	171.1	157.5	161.9	158.4	143.2	162.3	164.7
60°	1640.1	1309.9	265.8	194.6	179.0	181.9	191.8	152.4	130.1	189.8	197.3
62.5°	1784.5	1459.4	336.7	220.4	227.2	186.2	163.6	165.9	138.5	151.2	152.8
65°	1951.3	1615.0	371.6	245.9	244.7	206.9	185.5	128.9	89.9	83.2	82.8
67.5°	2076.6	1675.1	340.2	275.0	305.1	198.6	127.4	91.6	69.3	65.3	66.5
70°	1995.8	1537.8	291.2	329.8	308.7	154.0	109.9	72.8	59.3	55.8	57.7
72.5°	1731.7	1242.6	267.4	348.1	271.0	103.8	81.9	64.0	53.3	49.7	50.5
75°	1223.9	798.5	274.6	294.8	192.6	75.2	70.8	53.3	47.4	42.6	42.6
77.5°	537.6	342.2	215.2	212.5	123.4	59.6	60.0	44.2	41.0	36.6	36.6
80°	216.5	181.1	126.5	123.0	82.3	47.0	47.8	36.6	37.0	31.0	29.1
82.5°	114.6	103.4	70.4	66.1	58.9	36.2	33.9	31.4	31.0	25.5	22.3
85°	75.2	68.0	46.1	43.0	43.8	26.7	28.2	29.9	27.4	21.1	14.7
87.5°	46.5	46.1	32.6	31.0	32.6	19.1	23.1	24.2	23.1	16.0	9.5
90°	21.9	23.8	21.9	21.5	21.5	9.1	17.9	19.1	18.7	12.7	7.6
92.5°	17.1	19.5	20.3	20.7	20.7	9.5	18.7	19.8	19.1	13.1	8.4
95°	14.7	17.1	19.8	19.8	19.5	7.6	17.5	19.5	18.3	12.4	8.0
97.5°	12.4	14.3	17.1	17.1	18.7	6.3	16.3	18.7	18.3	13.1	8.4
100°	11.6	13.5	15.1	15.5	17.1	5.9	14.7	16.7	16.3	10.7	8.8
102.5°	10.7	11.6	12.0	12.4	12.7	5.5	11.6	12.7	12.4	8.0	8.0
105°	9.9	9.9	8.8	8.4	8.4	5.2	7.2	8.8	7.2	6.3	7.2
107.5°	9.9	9.5	7.2	6.3	6.3	4.8	5.5	5.5	4.8	6.3	6.8
110°	9.9	9.1	6.3	5.5	5.2	4.4	4.4	4.0	4.0	6.3	6.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	9.5	8.8	5.5	4.8	4.8	4.0	3.6	3.2	3.6	6.3	7.2
115°	9.1	8.4	5.2	4.8	4.4	3.6	3.2	2.4	3.6	6.8	7.6
117.5°	9.1	8.4	5.2	4.4	4.0	3.2	2.8	2.4	3.6	6.8	7.6
120°	9.5	8.4	5.2	4.0	3.6	2.8	2.4	2.4	3.6	6.8	7.6
122.5°	9.1	8.0	4.8	3.6	3.2	2.8	2.4	2.4	3.6	6.8	7.2
125°	8.8	8.0	4.8	3.2	2.8	2.4	1.9	1.9	4.0	6.8	7.2
127.5°	8.4	7.6	4.4	2.8	2.4	2.4	1.9	1.9	4.0	6.3	6.8
130°	7.6	6.8	4.4	2.8	1.9	1.9	1.6	1.6	4.0	6.3	6.8
132.5°	6.8	6.3	4.0	2.4	1.6	1.6	1.6	1.6	3.6	5.5	5.9
135°	5.9	5.2	3.6	1.9	1.6	1.2	1.2	1.2	3.2	4.8	5.2
137.5°	5.2	4.8	3.2	1.9	1.2	1.2	0.8	0.8	2.8	4.4	4.8
140°	4.4	4.0	2.8	1.6	1.2	1.2	0.8	0.8	1.9	3.2	3.6
142.5°	3.2	3.2	2.4	1.6	1.2	0.8	0.8	0.8	1.9	2.8	3.2
145°	2.8	2.8	2.4	1.6	1.2	0.8	0.4	0.4	1.2	1.9	1.9
147.5°	2.4	2.4	1.9	1.6	0.8	0.4	0.4	0.4	0.8	1.2	1.2
150°	1.9	1.9	1.6	1.2	0.8	0.4	0.0	0.0	0.4	0.8	0.8
152.5°	1.2	1.2	1.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.8	0.8	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.4	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	0.0	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

(END OF REPORT)