

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: P241131

Luminaire Tested: **UTLD-AF24-70-D-U-T2U-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-49)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-70-D-U-T2U-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7006.2 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U3 - G2

Input Watts (W): 74
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



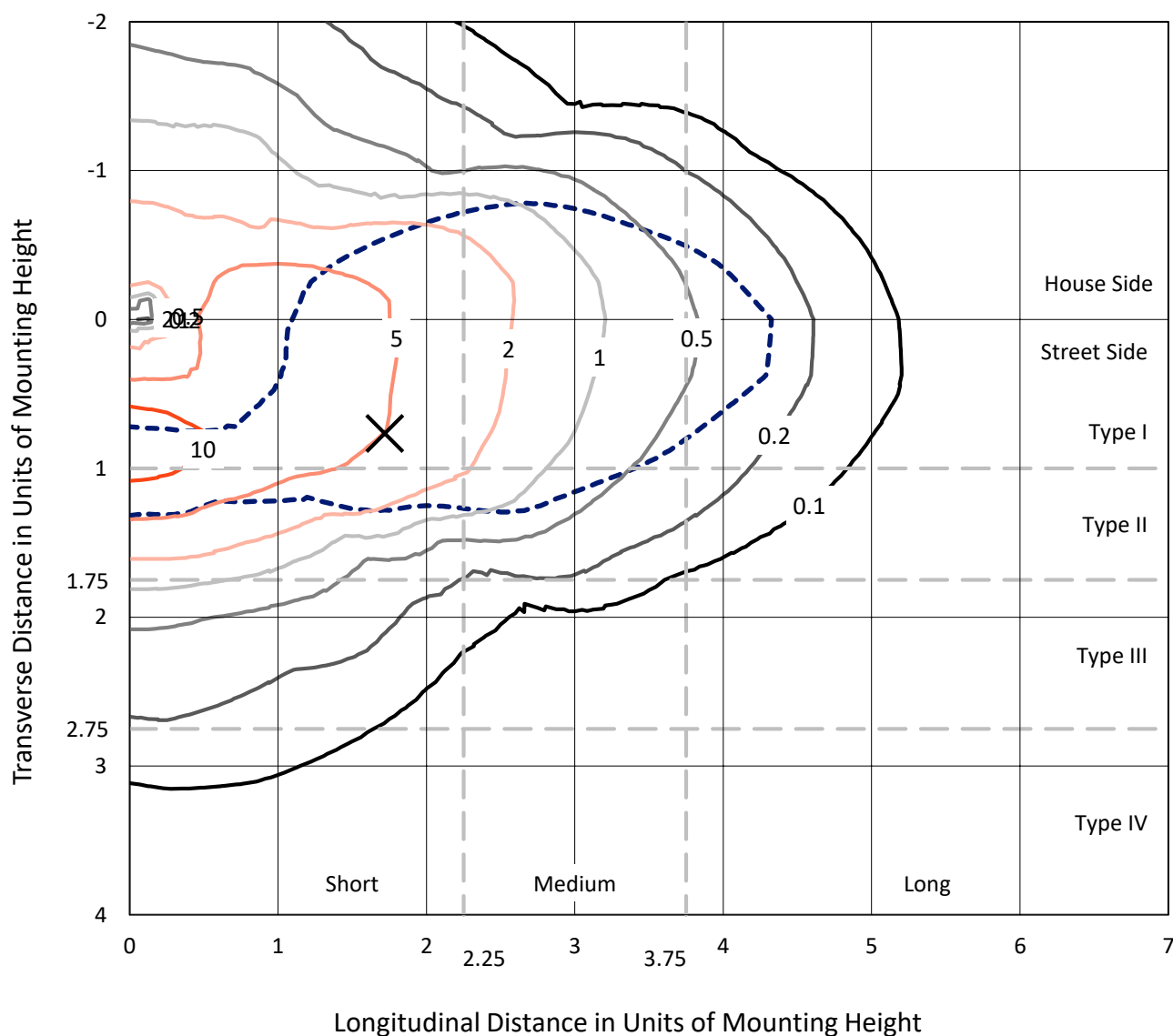
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

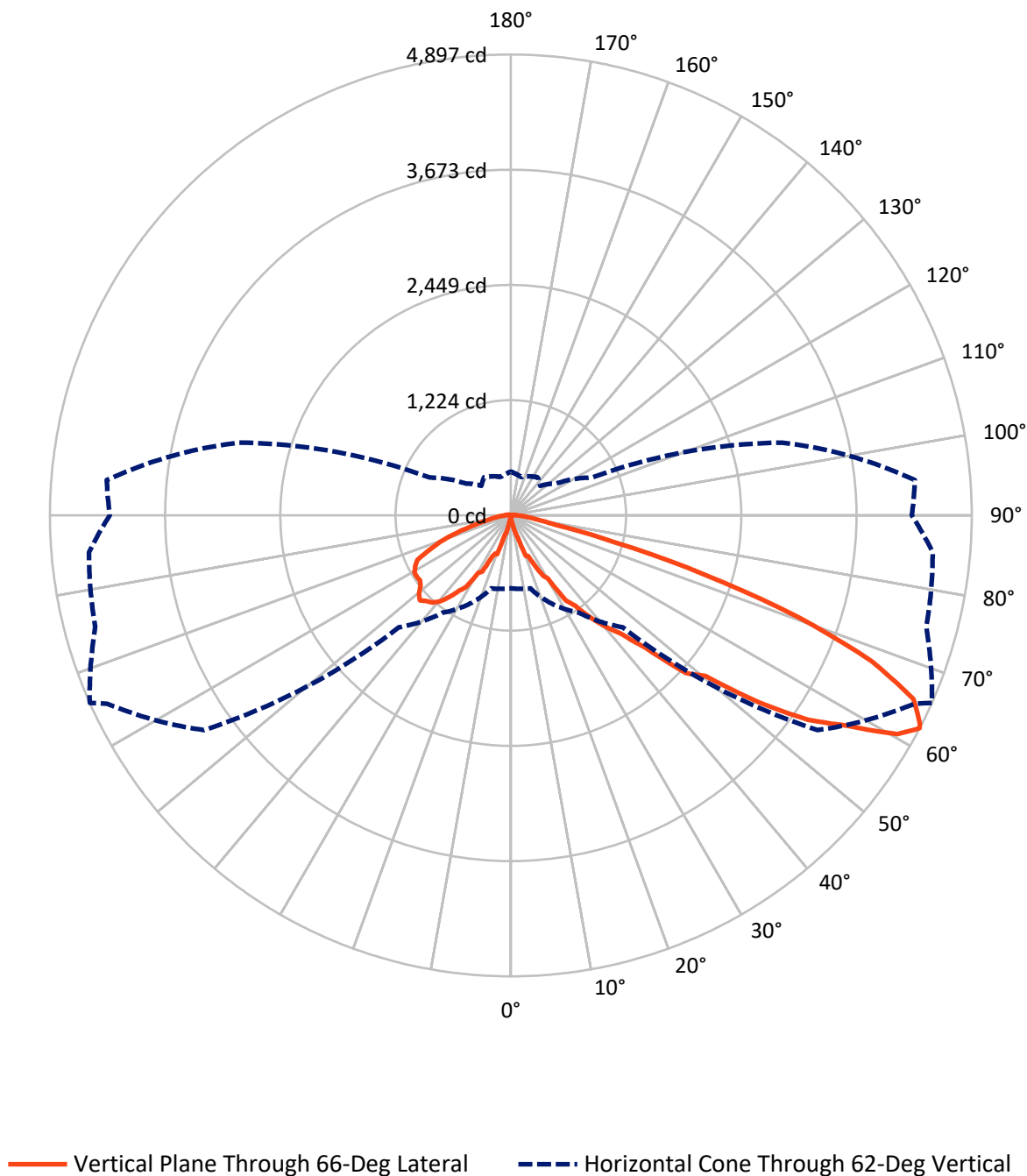


Based on 10 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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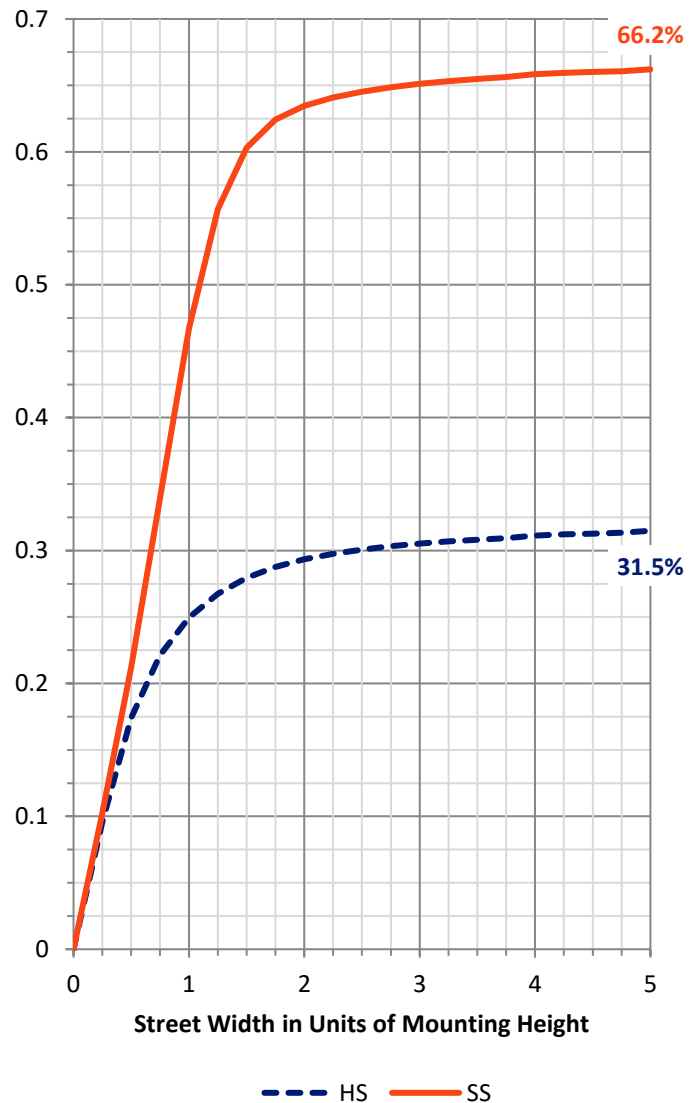
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2247.3	53.6	2300.9
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	4665.9	39.4	4705.3
	% Fixture	66.6	0.6	67.2
Total	Lumens	6913.2	93.0	7006.2
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.1
10°-20°	71.1	1.0
20°-30°	281.6	4.0
30°-40°	701.8	10.0
40°-50°	1338.3	19.1
50°-60°	1825.1	26.0
60°-70°	1676.6	23.9
70°-80°	855.2	12.2
80°-90°	157.3	2.2
90°-100°	41.6	0.6
100°-110°	20.0	0.3
110°-120°	12.1	0.2
120°-130°	9.3	0.1
130°-140°	6.2	0.1
140°-150°	3.0	0.0
150°-160°	0.7	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	6913.2	98.7
0°-180°	7006.2	100.0

Coefficient of Utilization



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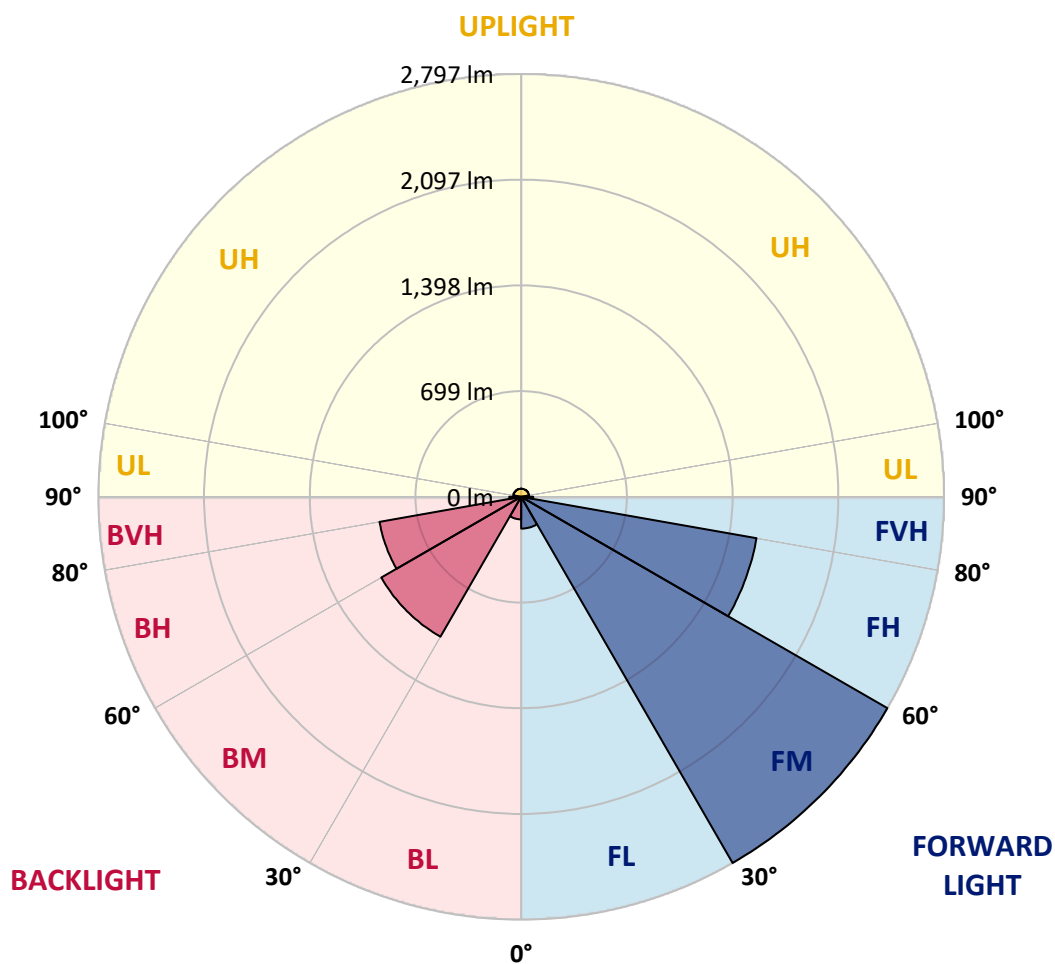
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	210.0	3.0			
FM	(30°-60°)	2796.6	39.9			
FH	(60°-80°)	1580.4	22.6			G1/1800
FVH	(80°-90°)	78.9	1.1			G1/100
BL	(0°-30°)	149.0	2.1	B1/500		
BM	(30°-60°)	1068.5	15.3	B2/2500		
BH	(60°-80°)	951.4	13.6	B2/1000		G2/1000
BVH	(80°-90°)	78.4	1.1			G1/100
UL	(90°-100°)	41.6	0.6		U2/50	
UH	(100°-180°)	53.6	0.8		U3/500	

BUG Rating: B2-U3-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
2.5°	87.2	82.9	62.1	54.3	45.7	37.1	28.4	24.1	23.3	21.6	19.8
5°	87.2	87.2	89.7	94.9	105.3	95.7	101.0	36.2	34.5	23.3	19.0
7.5°	166.4	162.1	203.6	144.0	90.5	84.5	128.5	78.5	78.5	36.2	21.6
10°	225.2	224.2	275.2	175.9	162.1	196.7	87.2	89.7	89.7	62.1	30.2
12.5°	220.9	219.1	222.6	242.4	203.6	172.5	175.1	114.8	143.2	226.0	232.0
15°	310.6	326.9	309.6	237.2	217.4	216.6	279.5	212.2	215.6	248.5	182.0
17.5°	414.1	415.7	452.9	384.7	302.8	320.0	295.8	296.8	262.2	275.2	307.9
20°	451.1	443.3	464.1	430.5	430.5	383.0	301.9	427.8	459.7	432.2	427.0
22.5°	774.6	771.2	674.5	471.9	488.3	447.6	457.2	498.6	468.4	440.0	432.2
25°	883.3	872.1	838.4	804.8	598.6	628.0	553.8	541.8	575.3	694.4	751.4
27.5°	1174.9	1187.7	1014.5	905.7	807.4	675.5	633.1	778.1	722.0	760.0	751.4
30°	1478.5	1471.6	1410.3	1211.1	1014.5	838.4	840.1	816.8	778.9	895.4	1017.0
32.5°	1916.7	1939.1	1658.8	1450.0	1268.0	1020.5	924.7	1086.0	1079.1	1045.5	1091.2
35°	2389.4	2385.9	2156.5	1812.3	1371.6	1154.2	1105.0	1200.7	1177.4	1125.7	1210.3
37.5°	2689.5	2655.9	2499.8	2203.9	1676.9	1315.4	1332.7	1402.6	1379.2	1311.1	1467.3
40°	3124.3	3087.3	2900.9	2499.0	2090.9	1594.1	1691.6	1634.6	1558.7	1546.6	1566.4
42.5°	3283.9	3285.6	3103.6	2811.2	2450.6	1992.6	2043.4	1793.3	1716.5	1845.1	1801.9
45°	3333.9	3327.0	3200.2	2981.1	2684.4	2468.8	2306.5	2082.3	2004.7	2122.0	2168.6
47.5°	3224.3	3196.7	3217.5	2972.5	2931.1	2676.7	2643.0	2484.2	2501.5	2435.1	2544.7
50°	2930.2	2889.7	2944.1	2880.2	3057.0	2901.8	3293.4	2692.2	2682.7	2802.6	2938.8
52.5°	2473.9	2443.7	2619.7	2567.1	3029.5	3147.6	3422.8	3290.8	3299.4	3310.7	3236.4
55°	2027.1	2042.6	2177.1	2146.2	2630.0	3201.1	3854.9	3781.6	3831.7	3553.8	3554.8
57.5°	1447.5	1481.9	1724.3	1742.4	2191.9	2815.5	4201.7	4084.3	4212.9	3953.3	4011.1
60°	997.2	1017.8	1149.0	1331.9	1645.0	2337.6	4017.1	4601.9	4718.4	4359.5	4357.0
62°	773.8	782.4	802.2	1035.9	1262.8	1680.3	3976.5	4732.2	4897.0	4570.0	4499.2
62.5°	717.7	727.2	740.1	940.2	1164.5	1527.7	3824.7	4760.6	4877.9	4596.7	4523.5
65°	574.5	578.8	549.4	625.3	823.0	912.6	2748.3	4626.9	4702.0	4564.0	4453.5
67.5°	532.2	516.7	476.2	455.4	615.9	588.3	1495.8	3943.8	4137.8	4368.2	4253.4
70°	440.8	475.3	442.5	407.1	491.6	452.0	634.8	3191.6	3245.9	3999.0	3983.5
72.5°	337.3	362.3	388.2	383.8	378.7	364.0	421.8	1994.3	2153.9	3282.1	3688.5
75°	273.4	283.8	338.2	326.9	336.4	288.1	332.0	948.0	1147.2	2322.9	3208.0
77.5°	219.9	226.9	263.1	253.6	278.7	225.2	264.8	429.5	486.5	1335.3	2197.0
80°	145.8	149.2	191.5	189.8	203.6	199.3	200.1	301.1	304.5	624.5	1149.8
82.5°	108.6	107.0	132.0	132.9	132.0	144.0	137.2	206.1	214.8	306.3	382.2
85°	70.7	68.1	78.5	83.7	80.2	79.4	103.5	145.0	151.0	218.2	227.7
87.5°	38.8	41.4	51.8	51.8	54.3	53.5	84.5	96.6	101.0	145.8	122.4
90°	25.9	25.9	28.4	27.6	29.4	28.4	44.0	57.0	57.8	73.3	65.6
92.5°	23.3	25.1	28.4	28.4	31.1	26.7	39.7	48.3	49.2	59.5	50.0
95°	20.7	21.6	24.1	25.1	26.7	19.0	30.2	39.7	40.5	49.2	40.5
97.5°	17.3	19.0	20.7	21.6	24.1	17.3	25.1	31.9	32.7	38.0	31.1
100°	17.3	18.1	18.1	18.1	20.7	14.6	21.6	27.6	28.4	31.1	25.9
102.5°	16.4	17.3	16.4	15.5	17.3	12.9	19.0	23.3	23.3	22.4	21.6
105°	16.4	16.4	13.8	12.1	14.6	12.1	16.4	17.3	17.3	17.3	19.8
107.5°	15.5	15.5	12.9	11.3	12.1	10.3	13.8	14.6	14.6	15.5	19.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	14.6	13.8	11.3	9.5	9.5	9.5	11.3	12.1	12.1	13.8	19.8
112.5°	12.9	12.9	9.5	8.6	8.6	8.6	10.3	11.3	11.3	12.9	19.0
115°	12.1	12.1	9.5	7.8	7.8	7.8	9.5	10.3	10.3	12.1	19.0
117.5°	12.9	12.1	8.6	7.8	6.9	6.9	7.8	9.5	9.5	12.1	19.0
120°	11.3	11.3	8.6	6.9	6.0	6.9	7.8	8.6	9.5	12.9	19.0
122.5°	12.1	11.3	8.6	6.0	6.0	6.0	6.9	8.6	8.6	12.1	17.3
125°	11.3	10.3	7.8	6.0	5.2	6.0	6.9	7.8	8.6	12.1	17.3
127.5°	11.3	10.3	7.8	6.0	5.2	5.2	6.9	7.8	7.8	11.3	16.4
130°	10.3	10.3	6.9	5.2	5.2	5.2	6.0	6.9	6.9	10.3	14.6
132.5°	9.5	8.6	6.9	5.2	4.3	5.2	6.0	6.0	6.0	9.5	13.8
135°	8.6	8.6	6.9	5.2	4.3	4.3	5.2	6.0	6.0	8.6	12.1
137.5°	7.8	7.8	6.9	5.2	4.3	4.3	4.3	5.2	5.2	7.8	10.3
140°	7.8	7.8	6.9	5.2	4.3	4.3	4.3	4.3	4.3	6.0	8.6
142.5°	7.8	7.8	6.9	5.2	4.3	3.5	3.5	3.5	3.5	5.2	6.9
145°	6.9	6.9	6.0	5.2	3.5	2.6	2.6	3.5	3.5	4.3	5.2
147.5°	6.9	6.9	6.0	4.3	2.6	1.7	1.7	2.6	2.6	3.5	4.3
150°	5.2	5.2	5.2	3.5	1.7	0.0	1.7	1.7	1.7	3.5	3.5
152.5°	3.5	3.5	2.6	1.7	0.8	0.8	0.8	1.7	1.7	1.7	2.6
155°	1.7	1.7	1.7	0.8	0.8	0.0	0.0	0.8	0.8	1.7	1.7
157.5°	0.0	0.0	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8
160°	0.0	0.0	0.0	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8
162.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.0	0.8	0.8	0.8	0.8
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°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
2.5°	19.8	19.0	19.0	19.0	19.8	19.8	19.8	19.0	18.1	18.1	18.1
5°	18.1	17.3	17.3	17.3	18.1	18.1	18.1	18.1	18.1	18.1	18.1
7.5°	19.8	18.1	18.1	17.3	17.3	18.1	19.8	29.4	50.9	71.6	83.7
10°	27.6	27.6	24.1	22.4	22.4	32.7	121.6	132.0	132.0	125.1	120.8
12.5°	250.1	197.5	174.2	61.3	50.0	101.8	116.4	109.6	151.8	176.9	187.2
15°	181.2	198.4	213.9	192.3	259.6	108.6	175.9	213.9	288.1	291.5	294.1
17.5°	304.5	328.7	237.2	207.0	242.4	321.7	263.1	272.6	272.6	272.6	273.4
20°	428.7	436.5	455.4	435.6	243.3	339.0	337.3	274.4	308.8	384.7	406.3
22.5°	455.4	471.0	448.6	434.8	514.1	316.6	348.5	436.5	441.6	420.9	431.3
25°	772.8	750.4	659.0	464.1	513.2	442.5	450.3	408.9	420.1	408.1	415.7
27.5°	766.8	754.7	681.5	669.4	539.1	523.5	418.4	471.9	501.1	520.2	516.7
30°	1071.3	1000.7	789.3	690.9	636.6	501.1	459.7	446.8	443.3	465.7	467.5
32.5°	1076.6	1066.1	909.2	893.6	654.7	507.2	433.8	408.1	465.7	496.8	491.6
35°	1249.0	1195.5	1039.4	964.3	752.2	477.0	387.3	408.1	417.5	440.0	439.1
37.5°	1403.5	1387.0	1259.4	1065.3	724.6	434.8	437.3	434.8	423.5	427.0	427.0
40°	1608.7	1518.2	1404.3	1159.3	678.0	465.7	471.9	410.6	399.4	393.3	393.3
42.5°	1852.9	1699.3	1594.1	1205.0	644.4	548.6	446.8	401.1	389.8	372.7	370.1
45°	2140.9	1950.4	1792.5	1219.7	540.8	568.5	464.1	456.3	419.2	403.7	397.6
47.5°	2393.7	2240.2	2021.0	1243.9	627.1	542.6	610.7	518.4	404.6	427.0	423.5
50°	2773.2	2575.7	2181.5	1182.6	670.2	527.0	634.8	453.7	416.6	446.8	445.1
52.5°	3108.7	2920.7	2349.7	1090.4	634.0	728.9	563.2	520.2	483.0	467.5	465.7
55°	3459.8	3271.8	2463.6	1043.7	626.3	583.1	585.7	563.2	436.5	470.1	469.2
57.5°	3863.6	3760.1	2711.1	1023.9	641.8	515.0	585.7	471.0	497.7	470.1	475.3
60°	4079.2	4079.2	2855.2	1004.0	592.6	528.8	502.9	517.5	432.2	437.3	451.1
62°	4260.4	4308.7	2987.1	951.4	590.9	443.3	494.3	457.2	422.7	448.6	465.7
62.5°	4321.6	4358.7	3026.8	941.1	605.6	420.1	458.1	456.3	438.2	441.6	457.2
65°	4381.1	4552.7	3121.7	875.5	557.2	396.8	391.6	433.0	379.5	363.1	364.0
67.5°	4324.2	4560.5	3089.8	704.7	452.0	340.7	345.9	361.4	342.5	336.4	339.8
70°	4116.3	4212.0	2764.6	581.3	389.8	312.3	332.0	319.2	313.9	313.1	312.3
72.5°	3831.7	3649.6	2171.1	437.3	335.5	270.9	284.7	294.1	295.8	291.5	286.4
75°	3232.1	2866.4	1416.4	327.8	268.2	229.4	259.6	267.4	274.4	262.2	257.9
77.5°	2218.6	1807.1	733.3	260.5	232.0	192.3	227.7	239.8	246.7	228.6	231.2
80°	1029.9	824.6	339.0	213.1	192.3	159.6	193.2	208.8	218.2	194.1	185.5
82.5°	347.6	317.4	204.4	164.8	157.8	121.6	156.1	174.2	176.9	161.3	137.2
85°	207.0	207.9	143.2	126.8	116.4	75.9	112.1	137.2	137.2	113.9	93.2
87.5°	119.1	133.7	109.6	96.6	87.2	51.8	83.7	94.0	92.3	72.4	51.8
90°	59.5	69.9	64.7	63.8	65.6	32.7	65.6	70.7	70.7	50.0	31.9
92.5°	44.0	53.5	57.8	54.3	55.2	25.1	52.6	53.5	52.6	38.8	25.1
95°	37.1	46.5	57.8	54.3	52.6	20.7	48.3	49.2	50.0	38.0	27.6
97.5°	29.4	35.4	44.8	44.0	47.5	17.3	44.0	44.0	42.2	31.1	23.3
100°	26.7	31.1	38.0	38.0	41.4	15.5	38.8	35.4	33.7	25.1	21.6
102.5°	22.4	25.1	29.4	28.4	31.1	14.6	28.4	27.6	25.9	21.6	20.7
105°	21.6	22.4	22.4	20.7	21.6	13.8	19.8	19.0	18.1	18.1	19.0
107.5°	20.7	20.7	19.0	17.3	17.3	12.9	14.6	13.8	14.6	19.0	19.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	20.7	20.7	17.3	15.5	13.8	12.1	12.9	11.3	12.9	19.0	20.7
112.5°	20.7	20.7	15.5	12.9	12.9	11.3	11.3	10.3	12.1	19.0	20.7
115°	19.8	19.8	14.6	12.1	11.3	10.3	10.3	9.5	12.1	19.0	20.7
117.5°	19.8	19.8	14.6	12.1	10.3	9.5	9.5	8.6	12.1	19.8	20.7
120°	19.8	19.8	14.6	11.3	10.3	9.5	8.6	8.6	12.1	19.0	20.7
122.5°	19.0	18.1	13.8	10.3	9.5	8.6	8.6	8.6	12.1	19.8	20.7
125°	18.1	17.3	13.8	10.3	8.6	8.6	7.8	7.8	12.1	19.0	19.8
127.5°	17.3	17.3	12.9	9.5	8.6	7.8	7.8	7.8	12.1	19.8	19.8
130°	16.4	15.5	12.1	8.6	7.8	6.9	6.9	7.8	12.9	18.1	19.0
132.5°	14.6	13.8	11.3	7.8	6.9	6.9	6.9	6.9	12.1	18.1	18.1
135°	12.1	12.1	9.5	6.9	6.0	6.0	6.0	6.9	11.3	15.5	16.4
137.5°	11.3	10.3	8.6	6.9	5.2	6.0	6.0	6.9	11.3	14.6	15.5
140°	9.5	8.6	6.9	5.2	5.2	5.2	5.2	6.0	9.5	12.9	13.8
142.5°	6.9	6.9	6.0	4.3	4.3	4.3	4.3	6.0	8.6	11.3	11.3
145°	6.0	6.0	5.2	4.3	3.5	2.6	2.6	4.3	6.9	9.5	9.5
147.5°	4.3	4.3	4.3	3.5	2.6	2.6	2.6	3.5	5.2	6.9	6.9
150°	3.5	3.5	3.5	2.6	2.6	1.7	1.7	2.6	4.3	5.2	5.2
152.5°	2.6	2.6	2.6	2.6	1.7	1.7	1.7	1.7	2.6	3.5	3.5
155°	1.7	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	1.7	1.7
157.5°	0.8	0.8	0.8	1.7	1.7	1.7	0.8	0.8	0.0	0.0	0.0
160°	0.8	0.8	0.8	1.7	1.7	1.7	0.8	0.8	0.0	0.0	0.0
162.5°	0.8	0.8	0.8	0.8	1.7	1.7	0.8	0.8	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)