

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: P239984

Luminaire Tested: **UTLD-AF24-30-D-U-T2U-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-18)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-30-D-U-T2U-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2565 lumens
Efficiency: N/A
Efficacy: 82.7 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 - 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

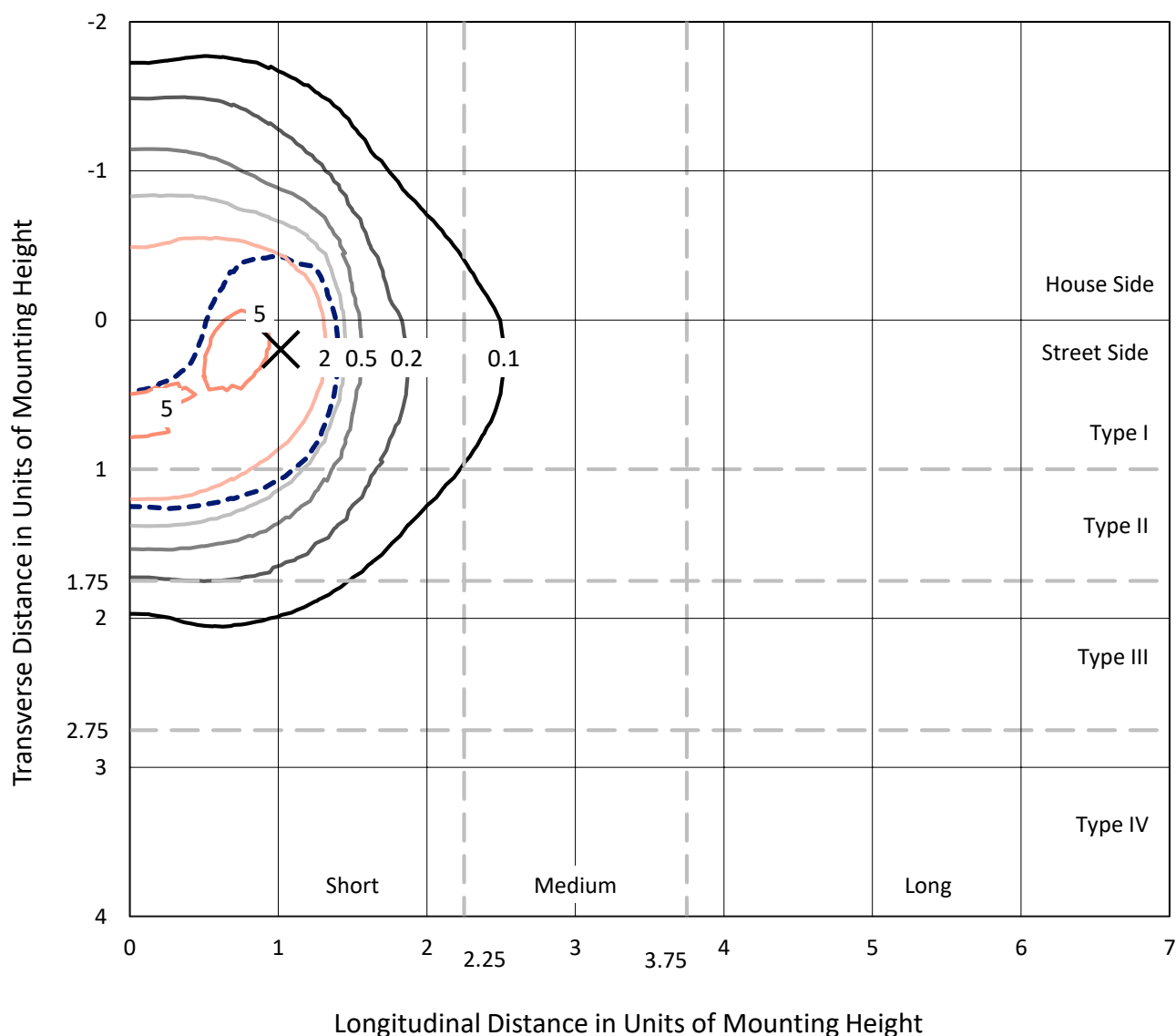


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

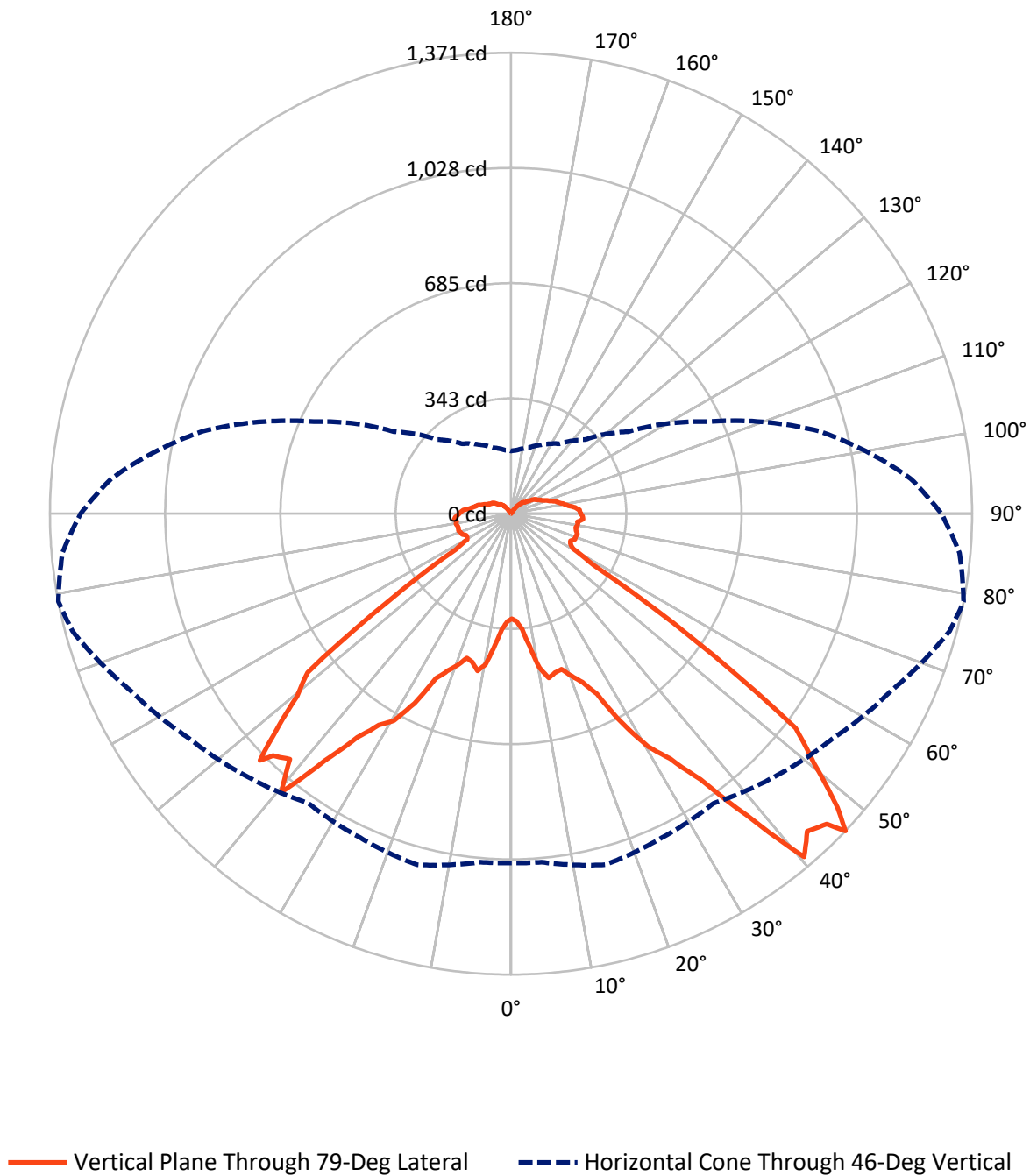


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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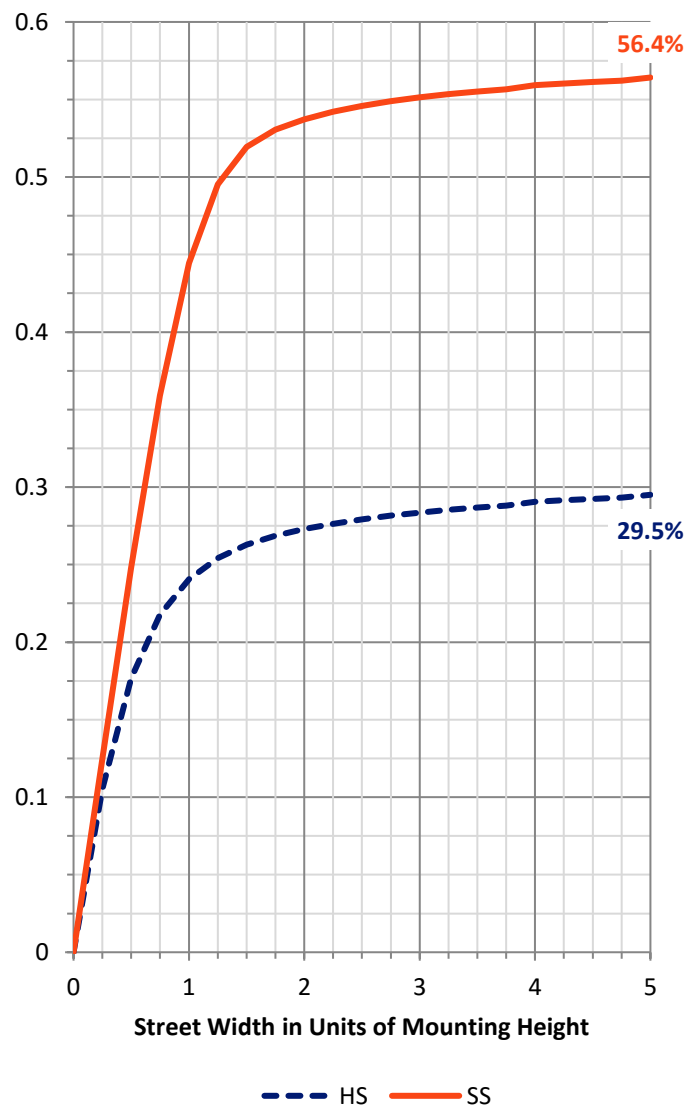
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	781.9	97.2	879.1
	% Fixture	30.5	3.8	34.3
Street Side	Lumens	1474.9	211.0	1685.9
	% Fixture	57.5	8.2	65.7
Total	Lumens	2256.8	308.2	2565.0
	% Fixture	88.0	12.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.7	1.3
10°-20°	121.9	4.8
20°-30°	246.2	9.6
30°-40°	450.7	17.6
40°-50°	622.8	24.3
50°-60°	397.5	15.5
60°-70°	142.4	5.6
70°-80°	127.9	5.0
80°-90°	113.7	4.4
90°-100°	104.3	4.1
100°-110°	81.1	3.2
110°-120°	56.3	2.2
120°-130°	37.7	1.5
130°-140°	22.6	0.9
140°-150°	6.0	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2256.8	88.0
0°-180°	2565.0	100.0

Coefficient of Utilization



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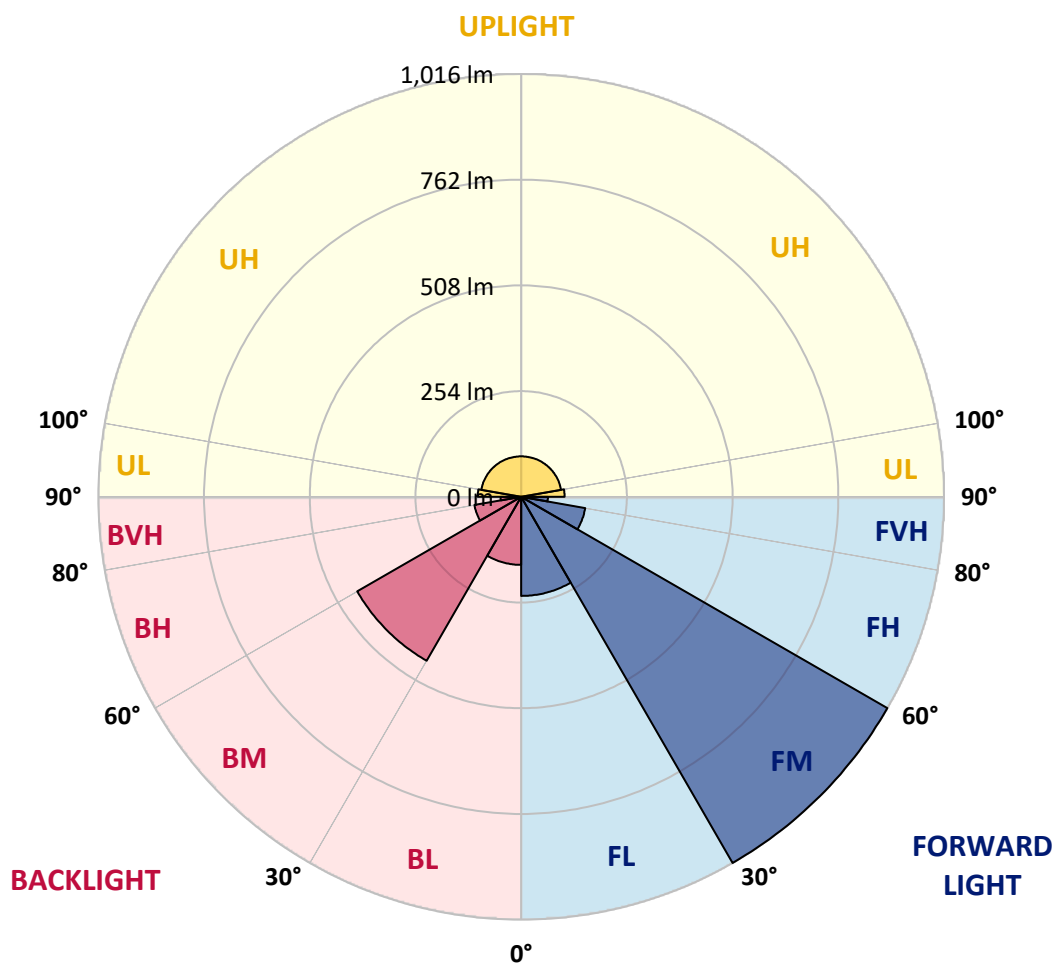
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	238.2	9.3			
FM	(30°-60°)	1016.2	39.6			
FH	(60°-80°)	156.3	6.1			G0/660
FVH	(80°-90°)	64.2	2.5			G1/100
BL	(0°-30°)	163.5	6.4	B1/500		
BM	(30°-60°)	454.9	17.7	B1/1000		
BH	(60°-80°)	114.0	4.4	B1/500		G1/500
BVH	(80°-90°)	49.5	1.9			G1/100
UL	(90°-100°)	104.3	4.1		U3/500	
UH	(100°-180°)	97.2	3.8		U3/500	

BUG Rating: B1-U3-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	312.6	312.6	312.6	312.6	312.6	312.6	312.6	312.6	312.6	312.6	312.6
2.5°	317.8	318.8	318.5	317.8	319.2	319.9	319.9	319.5	319.9	320.5	321.9
5°	332.9	332.6	333.6	336.4	340.2	341.2	344.3	343.6	345.3	345.3	347.4
7.5°	359.4	359.8	363.2	366.0	370.1	379.1	387.7	399.0	398.7	398.0	400.8
10°	387.0	387.0	393.9	403.9	420.7	439.7	447.9	457.9	468.2	466.5	463.8
12.5°	395.6	397.0	409.0	433.8	470.3	502.7	519.2	517.1	506.8	501.0	491.7
15°	411.4	413.2	426.2	464.1	507.5	536.4	542.6	517.1	494.8	490.6	482.7
17.5°	471.0	471.0	484.4	519.2	551.9	545.4	520.9	508.9	494.4	486.5	475.1
20°	512.3	514.7	536.1	560.5	578.4	557.1	557.4	535.0	520.2	515.4	504.7
22.5°	552.3	555.7	561.9	600.1	605.3	609.4	597.0	576.7	551.9	544.0	533.0
25°	636.9	638.0	644.5	662.8	649.0	642.1	624.2	607.7	598.0	593.9	582.2
27.5°	737.5	734.4	737.1	738.5	717.5	698.6	672.4	690.0	703.7	707.5	697.2
30°	758.1	753.0	774.0	796.4	786.0	763.3	761.6	782.6	808.4	803.6	789.1
32.5°	841.5	833.5	843.2	845.6	843.9	837.3	834.6	861.1	879.7	869.0	848.0
35°	908.6	908.3	874.2	882.1	886.9	902.1	917.2	953.4	969.9	970.6	953.0
37.5°	1052.2	1041.8	1029.1	978.8	952.3	959.2	1011.5	1075.6	1112.8	1137.2	1109.3
40°	1101.4	1105.9	1095.2	1089.7	1051.1	1035.0	1095.2	1205.4	1306.3	1342.1	1338.6
42.5°	1020.5	1030.8	1024.6	1062.8	1093.5	1114.1	1186.8	1281.1	1300.4	1291.1	1241.9
45°	1088.0	1088.0	1071.4	1047.7	1058.4	1125.5	1183.0	1246.7	1306.9	1316.6	1289.4
46°	1039.1	1040.1	1080.7	1062.8	1050.8	1106.6	1166.5	1246.7	1349.6	1370.6	1338.6
47.5°	948.9	947.2	1021.9	1027.7	1036.0	1081.8	1147.5	1246.4	1304.5	1305.9	1266.0
50°	751.9	755.0	857.6	912.0	966.4	1011.5	1100.4	1156.1	1169.2	1166.8	1123.4
52.5°	610.4	618.7	673.1	741.6	807.4	894.1	997.4	1049.4	1078.0	1059.1	1019.1
55°	423.1	441.0	509.6	571.2	667.6	750.9	840.1	844.9	714.4	654.9	580.8
57.5°	261.7	265.1	325.7	412.8	485.1	550.5	551.6	428.6	333.6	289.9	241.0
60°	145.3	148.4	202.1	266.5	337.1	345.0	308.1	247.9	222.4	211.1	193.8
62.5°	108.1	110.5	145.6	185.2	213.5	224.8	206.9	202.8	203.1	198.0	186.6
65°	97.4	98.8	127.7	147.7	164.2	166.6	173.2	187.6	195.6	194.5	189.7
67.5°	88.5	90.2	116.4	130.8	140.8	152.5	158.0	180.4	201.8	205.2	200.7
70°	78.8	81.6	105.0	120.2	131.5	142.9	153.9	181.8	199.0	203.8	201.8
72.5°	68.2	71.6	91.2	107.1	119.8	132.2	151.1	174.9	198.3	206.9	208.3
75°	59.9	64.4	80.6	94.7	108.1	122.9	142.9	172.5	194.5	200.0	202.8
77.5°	54.1	58.9	71.3	84.4	97.1	113.3	136.3	171.8	190.7	196.9	201.8
80°	49.6	54.4	64.7	75.1	85.7	104.0	129.5	170.8	194.5	201.1	203.8
82.5°	46.1	50.6	59.6	68.9	77.5	94.0	124.6	169.0	193.5	199.0	200.4
85°	46.5	49.9	58.2	66.8	74.7	88.8	122.2	169.7	206.2	214.8	216.2
87.5°	48.9	51.3	59.9	69.9	78.8	93.3	126.7	168.4	204.9	212.8	216.2
90°	53.0	55.1	65.4	77.1	87.8	101.2	125.7	164.6	199.0	206.2	208.3
92.5°	65.8	67.5	78.8	91.6	100.9	105.4	121.5	170.4	200.0	204.2	204.2
95°	85.0	87.1	98.1	107.8	109.5	107.1	119.5	151.5	182.5	191.4	196.6
97.5°	106.4	107.1	113.3	115.0	109.8	104.3	116.7	141.5	165.6	171.8	173.2
100°	113.3	113.3	117.4	116.0	106.0	98.5	105.7	128.8	152.2	159.1	161.1
102.5°	114.7	115.3	119.5	115.0	101.6	89.2	94.0	116.0	137.7	145.3	149.4
105°	121.5	121.9	119.5	108.5	91.9	80.9	85.0	107.1	130.1	137.4	141.9
107.5°	113.6	112.6	106.0	95.7	84.7	76.8	81.6	97.8	115.3	121.2	124.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	94.0	93.3	90.9	87.1	80.2	74.4	77.5	92.3	109.1	113.6	116.4
112.5°	90.5	89.9	87.5	83.0	75.1	70.6	75.7	88.5	98.8	100.9	101.2
115°	87.1	86.4	80.9	75.7	69.5	67.5	70.9	82.6	92.3	94.7	96.7
117.5°	75.1	74.4	70.2	67.1	64.7	65.8	71.6	78.2	85.0	87.1	88.5
120°	66.8	66.4	64.4	62.3	60.9	61.6	67.8	75.1	81.9	84.0	85.0
122.5°	63.0	62.7	60.3	57.2	57.2	57.2	62.0	67.5	75.1	76.8	79.2
125°	55.4	55.4	53.0	50.6	54.1	55.4	56.5	56.8	62.7	65.4	66.4
127.5°	49.2	49.6	47.5	45.8	52.0	55.1	54.4	49.9	53.4	55.4	56.8
130°	48.5	48.5	46.1	44.1	47.2	53.4	51.3	46.8	51.0	52.3	53.0
132.5°	47.2	47.2	44.8	41.7	42.3	49.2	44.8	43.7	47.5	48.9	49.2
135°	43.4	43.4	41.7	37.5	34.8	41.7	36.2	38.2	42.0	43.0	43.4
137.5°	38.6	38.6	36.8	33.4	27.5	31.3	27.9	32.4	36.2	37.2	37.5
140°	31.7	31.3	30.3	26.2	20.0	17.6	18.9	25.8	29.6	30.3	31.3
142.5°	23.4	23.8	22.0	18.6	12.1	6.5	11.0	16.5	20.7	21.7	22.4
145°	17.2	16.9	15.1	12.1	6.5	1.0	5.2	10.3	13.1	14.1	14.8
147.5°	11.4	11.4	10.0	7.2	2.1	0.3	1.4	5.2	8.3	9.0	9.3
150°	7.6	7.6	5.5	2.1	0.3	0.3	0.3	1.0	3.4	4.1	4.8
152.5°	2.4	2.4	1.0	0.7	0.3	0.0	0.0	0.3	0.7	0.7	1.0
155°	0.7	0.7	0.7	0.3	0.0	0.0	0.0	0.0	0.3	0.3	0.3
157.5°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.3	0.3	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°	312.6	312.6	312.6	312.6	312.6	312.6	312.6	312.6	312.6	312.6	312.6
2.5°	322.3	321.9	320.9	319.9	317.1	313.7	310.2	307.8	306.4	305.4	305.0
5°	346.7	347.4	342.6	334.7	327.1	320.2	313.7	307.5	304.0	301.3	300.2
7.5°	398.7	399.7	390.1	377.7	358.4	335.0	315.0	301.6	292.0	286.1	285.1
10°	463.1	460.3	449.0	422.5	387.3	351.2	313.7	284.7	269.2	262.0	261.7
12.5°	489.2	485.5	472.7	450.7	413.8	366.7	320.2	282.0	258.9	249.6	249.3
15°	477.2	470.7	447.2	426.9	412.5	386.3	344.6	300.9	269.2	257.5	254.4
17.5°	466.9	460.3	440.7	411.4	384.2	372.9	352.6	316.4	283.4	266.8	263.4
20°	497.2	493.0	468.6	429.7	399.7	354.3	337.8	313.0	288.2	277.8	275.1
22.5°	525.1	523.0	492.3	451.7	411.4	379.8	346.7	328.5	304.4	297.1	294.0
25°	577.0	567.4	517.1	462.4	427.6	396.6	354.3	325.7	296.4	287.1	285.4
27.5°	699.3	676.9	603.6	521.3	451.4	402.1	353.6	311.6	279.6	267.9	267.2
30°	777.1	756.8	674.1	583.6	488.6	415.2	349.1	298.5	274.4	263.0	263.4
32.5°	824.2	797.0	704.1	589.4	497.2	421.8	351.9	294.0	261.7	247.2	246.9
35°	926.5	888.6	753.7	636.6	514.0	412.1	340.2	284.7	254.8	244.1	242.7
37.5°	1072.1	1029.4	846.6	674.8	520.9	399.4	325.0	274.1	238.3	223.4	222.4
40°	1282.5	1219.8	975.4	721.0	515.4	389.7	308.5	257.9	228.3	218.6	215.5
42.5°	1178.2	1107.3	898.6	712.0	501.6	363.2	292.7	250.0	222.4	214.8	210.7
45°	1243.3	1160.6	907.9	662.1	449.0	324.0	265.8	234.1	206.6	195.9	194.9
46°	1279.4	1193.0	948.2	646.9	424.9	311.6	253.7	226.9	203.1	189.4	186.3
47.5°	1200.9	1104.8	871.8	617.3	405.6	283.7	237.9	215.5	199.3	186.6	184.5
50°	1053.2	959.2	754.0	526.4	349.1	250.3	212.1	198.7	182.5	168.7	166.3
52.5°	961.3	882.4	690.3	477.5	296.4	211.1	189.4	177.7	161.1	144.9	142.9
55°	528.5	474.1	426.6	358.8	245.8	178.3	164.9	158.0	141.2	125.3	124.3
57.5°	217.6	195.6	193.8	182.8	169.0	150.1	142.5	138.4	121.5	102.3	101.6
60°	183.2	163.2	143.9	126.7	125.7	125.3	122.9	115.7	97.1	77.1	76.4
62.5°	178.3	158.7	139.8	118.8	109.8	112.6	108.1	99.2	85.0	65.8	65.1
65°	181.8	161.5	139.1	115.3	105.7	106.7	101.9	95.0	85.4	71.6	70.9
67.5°	193.5	172.5	147.4	114.0	102.3	104.3	100.9	95.7	90.2	81.6	79.9
70°	195.2	176.6	147.7	114.7	98.5	100.9	99.8	95.4	91.6	84.0	83.0
72.5°	200.4	183.5	150.8	112.2	94.3	95.4	96.7	95.4	93.0	88.5	86.8
75°	195.6	180.8	149.4	110.2	90.2	89.5	93.0	94.7	95.4	93.6	91.6
77.5°	194.5	182.1	149.8	108.8	86.4	83.7	86.4	89.2	90.5	88.8	87.1
80°	195.9	185.2	154.2	109.1	82.3	75.4	76.8	79.9	80.2	77.1	74.7
82.5°	192.8	182.5	149.4	105.4	75.7	67.1	67.5	70.6	70.9	67.1	64.4
85°	206.6	194.2	152.9	100.5	68.9	61.3	61.6	63.0	60.9	56.8	54.1
87.5°	206.2	191.4	146.0	93.0	64.4	57.8	57.5	57.2	53.7	48.9	46.5
90°	199.0	183.5	136.7	81.9	56.8	53.0	52.0	49.9	45.1	39.6	37.9
92.5°	194.2	177.7	130.5	77.5	49.9	46.5	45.8	43.7	38.9	33.1	32.0
95°	189.0	172.8	120.2	67.8	44.1	40.6	39.6	37.5	33.7	28.9	28.2
97.5°	166.6	150.8	106.0	61.6	39.2	35.5	34.8	33.1	30.0	26.5	26.2
100°	153.9	139.8	98.5	56.5	35.1	31.0	30.6	29.6	27.5	25.1	24.8
102.5°	143.9	130.1	91.2	52.3	31.3	27.5	27.2	26.9	25.8	24.1	24.1
105°	136.3	123.3	87.5	48.9	28.2	25.1	24.8	24.8	23.8	22.7	22.7
107.5°	118.8	107.8	76.1	43.4	25.8	23.1	23.1	23.1	22.4	21.7	22.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	111.9	101.6	72.3	40.6	24.8	21.3	21.0	21.0	20.7	21.0	21.0
112.5°	96.4	87.5	63.7	38.9	24.1	20.3	19.3	18.6	17.9	18.6	18.9
115°	92.6	84.4	61.6	37.5	23.4	19.6	18.2	17.2	15.8	16.9	16.9
117.5°	85.0	77.5	57.2	36.5	23.4	18.6	17.2	16.2	14.8	15.5	15.5
120°	81.6	75.1	57.5	37.5	23.8	17.6	16.2	14.5	13.4	14.5	14.5
122.5°	76.8	70.9	54.1	35.5	22.7	17.2	15.8	12.4	11.7	12.7	12.7
125°	64.4	59.6	46.5	31.3	21.7	17.2	15.5	11.0	11.0	11.7	12.1
127.5°	54.7	51.0	40.3	29.3	22.0	18.2	14.8	9.6	10.3	11.4	11.4
130°	51.6	48.5	39.9	30.0	23.1	19.3	12.1	9.0	9.6	10.7	10.7
132.5°	48.2	45.4	38.6	30.6	23.4	18.2	10.0	8.3	9.0	9.6	9.6
135°	42.3	40.3	34.8	27.9	21.0	14.5	7.9	7.2	8.3	9.0	9.3
137.5°	37.2	35.5	30.6	25.1	18.9	12.4	5.5	6.5	7.2	7.6	7.9
140°	30.6	29.6	25.8	20.7	14.1	6.9	4.1	5.2	5.9	6.5	6.5
142.5°	22.4	21.7	18.2	13.4	8.6	2.8	2.8	3.8	4.5	5.2	5.2
145°	14.8	14.1	11.7	8.6	3.8	0.7	1.7	2.8	3.8	4.1	4.1
147.5°	9.3	9.0	7.2	4.5	1.4	0.7	0.7	2.1	2.8	3.1	3.1
150°	4.8	4.5	3.1	1.4	0.7	0.3	0.3	0.7	1.7	2.1	2.1
152.5°	1.0	1.0	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7
155°	0.3	0.3	0.3	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	0.3	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

(END OF REPORT)