

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: P239930

Luminaire Tested: **UTLD-AF24-30-D-U-T4W-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-16)
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-T4W-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 2490 lumens
Efficiency: N/A
Efficacy: 80.3 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

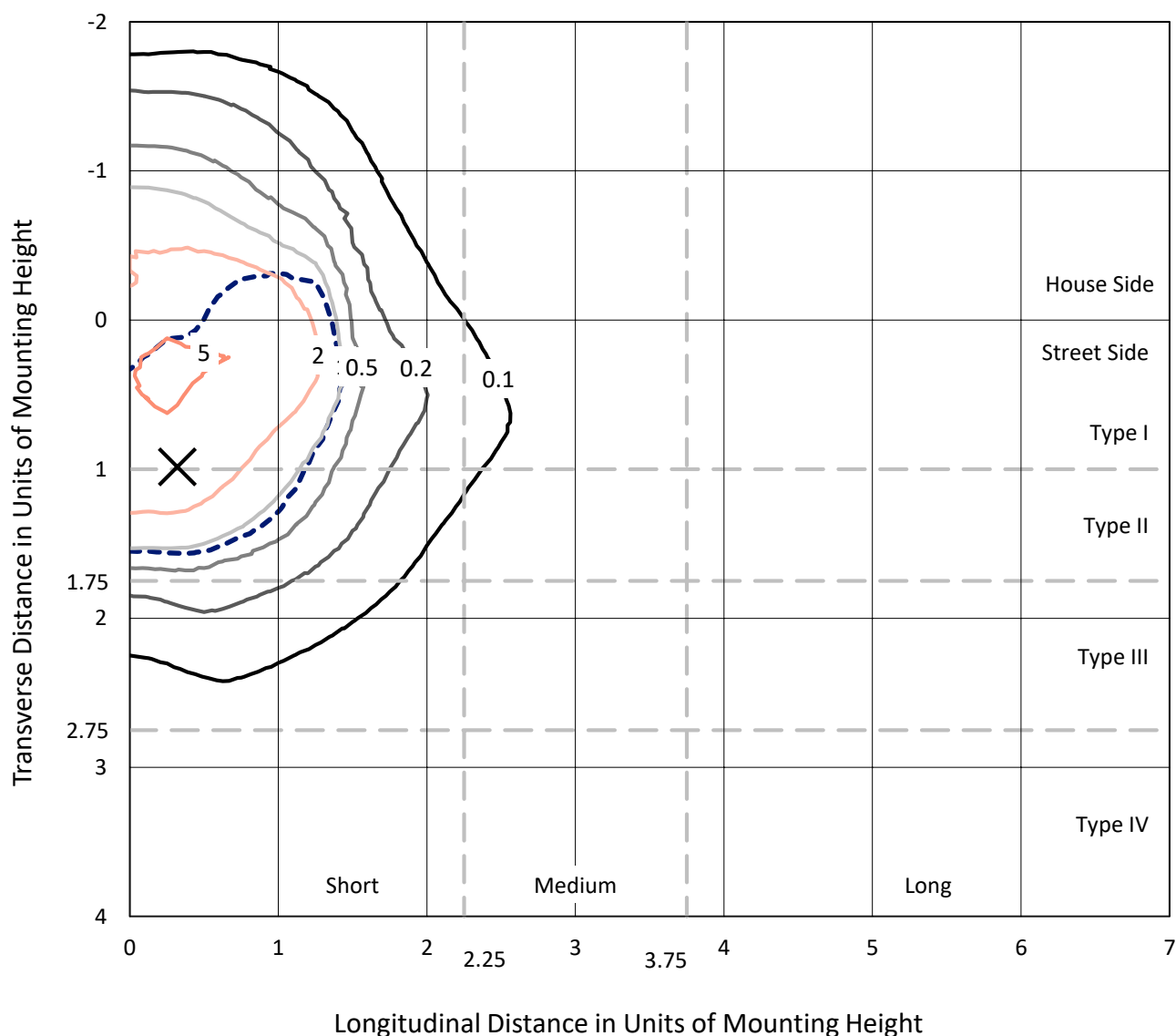


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

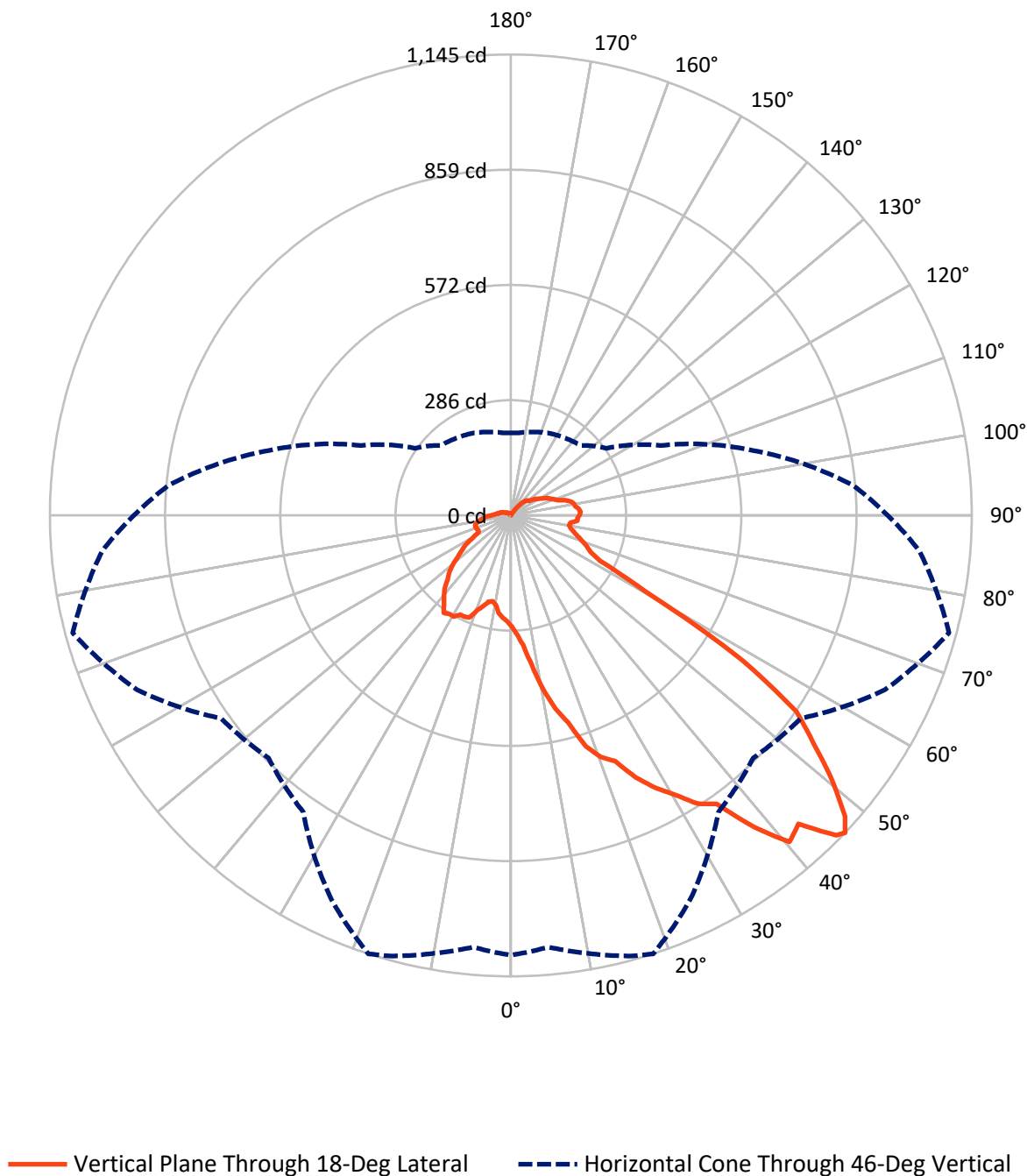


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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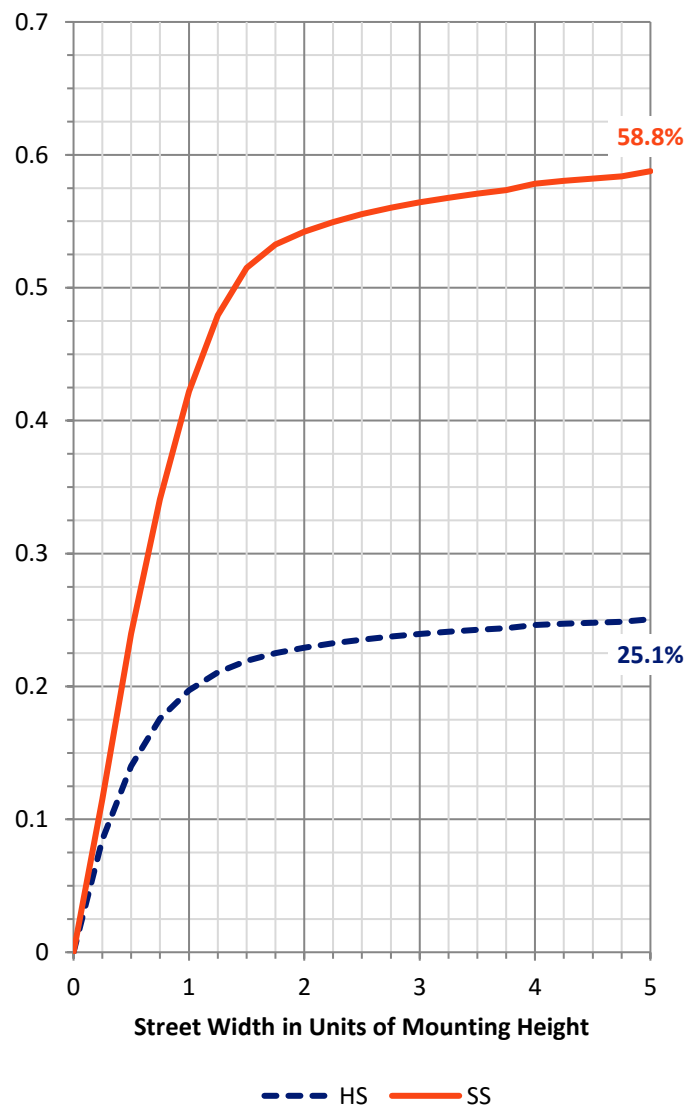
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	647.7	80.6	728.3
	% Fixture	26.0	3.2	29.3
Street Side	Lumens	1519.9	241.7	1761.7
	% Fixture	61.0	9.7	70.7
Total	Lumens	2167.6	322.4	2490.0
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.5	1.2
10°-20°	120.5	4.8
20°-30°	245.2	9.8
30°-40°	401.3	16.1
40°-50°	522.4	21.0
50°-60°	390.9	15.7
60°-70°	162.8	6.5
70°-80°	148.1	5.9
80°-90°	146.8	5.9
90°-100°	118.1	4.7
100°-110°	83.9	3.4
110°-120°	56.7	2.3
120°-130°	36.5	1.5
130°-140°	21.6	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°	2167.6	87.1
0°-180°	2490.0	100.0

Coefficient of Utilization



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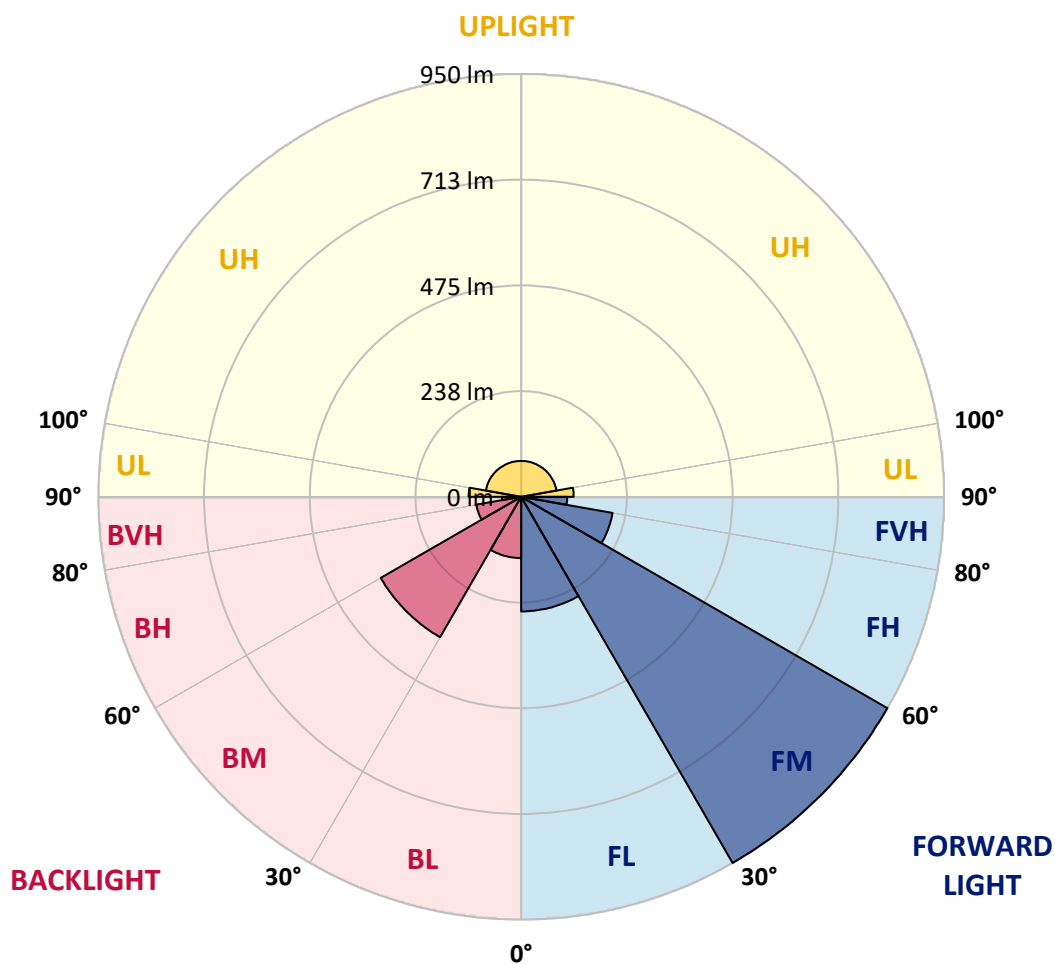
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	257.6	10.3			
FM	(30°-60°)	950.3	38.2			
FH	(60°-80°)	208.5	8.4			G0/660
FVH	(80°-90°)	103.5	4.2			G2/225
BL	(0°-30°)	137.7	5.5	B1/500		
BM	(30°-60°)	364.3	14.6	B1/1000		
BH	(60°-80°)	102.4	4.1	B0/110		G0/110
BVH	(80°-90°)	43.3	1.7			G1/100
UL	(90°-100°)	118.1	4.7		U3/500	
UH	(100°-180°)	80.6	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°	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8
2.5°	296.4	295.1	295.8	295.8	294.0	293.3	291.6	289.6	286.8	283.7	281.0
5°	325.7	324.7	324.3	324.0	323.6	319.2	314.0	309.5	304.7	299.5	292.3
7.5°	379.8	379.4	377.4	374.9	371.5	363.9	354.6	350.2	343.6	335.7	324.7
10°	447.3	442.4	438.0	438.0	431.1	428.3	425.6	419.0	414.9	403.9	388.0
12.5°	485.8	483.4	492.7	492.0	501.0	517.1	522.7	528.2	503.0	471.0	441.4
15°	522.0	522.0	533.7	534.0	560.5	596.3	623.5	597.0	550.9	499.2	459.6
17.5°	571.5	574.6	591.5	602.9	638.7	700.3	681.7	632.8	564.0	502.3	457.9
20°	593.2	600.1	625.9	640.8	696.2	754.4	736.5	679.0	599.1	528.9	484.1
22.5°	606.7	611.5	641.8	662.8	733.7	782.9	780.2	722.0	646.6	558.8	507.2
25°	661.8	664.9	699.3	721.0	796.0	811.9	780.5	740.3	666.2	575.0	529.5
27.5°	680.3	680.7	733.7	766.4	828.1	822.5	781.9	765.0	727.5	655.6	624.9
30°	705.5	704.8	770.2	805.3	842.9	819.4	786.7	801.5	804.0	745.4	689.6
32.5°	736.5	733.7	811.9	853.9	865.9	818.8	794.7	819.8	856.3	795.7	735.8
35°	765.0	767.5	851.5	880.0	891.4	822.9	798.8	853.9	927.9	881.1	780.5
37.5°	948.9	946.1	972.7	982.6	954.1	837.0	814.6	896.2	1004.7	984.4	876.6
40°	990.6	981.3	1060.5	1066.3	1016.0	886.9	858.0	921.7	1065.3	1101.4	1015.7
42.5°	955.4	953.0	1039.5	1047.4	1011.2	920.7	886.6	942.4	1072.2	1101.8	959.2
45°	1110.0	1097.3	1142.4	1133.1	1032.9	906.2	869.0	919.3	1048.4	1131.4	1018.5
46°	1092.5	1076.3	1133.1	1144.8	1053.6	899.0	851.5	878.7	1024.7	1126.6	1019.1
47.5°	1038.8	1040.1	1115.9	1116.6	1032.6	900.0	822.5	854.2	971.6	1064.9	921.7
50°	906.9	891.4	1029.8	1034.3	954.1	861.1	792.9	807.4	919.3	976.4	830.8
52.5°	873.2	861.1	942.7	942.0	869.7	801.9	738.9	754.0	880.4	945.5	841.5
55°	802.2	798.1	866.6	860.8	810.1	728.9	683.8	693.1	730.3	704.8	419.4
57.5°	533.0	548.8	667.3	678.6	679.0	640.8	584.3	498.6	431.4	367.0	205.2
60°	217.6	235.8	367.7	384.9	410.1	480.3	423.5	333.3	278.5	289.6	177.3
62.5°	164.2	171.1	245.5	248.6	258.2	292.3	288.9	241.7	237.9	262.0	169.7
65°	152.9	159.1	217.6	216.6	212.1	221.4	220.7	209.7	213.8	244.1	169.1
67.5°	144.6	150.8	202.1	202.5	198.7	200.4	201.8	196.3	205.9	237.2	173.5
70°	136.3	142.9	185.9	187.0	189.7	195.9	198.3	194.2	202.8	228.6	173.2
72.5°	126.4	133.6	170.8	172.5	178.0	192.1	200.4	199.4	200.4	215.9	172.5
75°	122.9	130.1	158.0	161.1	169.1	190.4	211.7	204.9	198.0	207.6	168.4
77.5°	107.8	116.0	144.6	151.5	169.1	195.9	219.3	216.9	204.2	202.1	163.9
80°	103.6	111.6	139.1	146.7	165.6	200.7	226.9	227.2	220.7	209.7	168.4
82.5°	104.3	111.9	140.5	149.1	170.8	204.2	220.7	229.3	230.0	216.2	173.5
85°	122.6	129.8	157.0	166.0	184.9	203.1	215.9	222.1	228.3	228.3	190.4
87.5°	130.8	137.4	158.0	166.0	184.2	205.5	203.5	213.8	220.0	227.9	196.3
90°	138.4	142.5	163.9	171.5	181.1	198.3	192.8	189.7	194.9	203.1	183.9
92.5°	143.9	147.7	166.6	173.2	181.4	185.2	177.0	168.0	180.8	187.3	171.1
95°	153.9	157.3	167.3	169.7	168.7	172.2	159.4	156.0	161.5	168.7	158.4
97.5°	147.0	149.4	159.1	161.8	161.1	156.0	143.2	141.2	146.0	151.5	140.1
100°	147.0	150.1	157.3	159.1	154.9	141.9	128.8	128.1	131.2	133.9	123.3
102.5°	150.1	151.5	152.9	153.9	146.3	131.9	122.2	119.8	120.9	122.2	112.6
105°	142.2	142.5	143.2	140.1	133.9	122.9	113.3	109.1	112.6	116.7	108.8
107.5°	122.9	122.6	122.9	121.9	121.2	114.7	107.8	102.6	102.6	104.0	96.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
110°	114.7	115.0	114.7	114.7	111.6	107.1	100.5	95.0	92.3	93.0	86.1
112.5°	105.0	105.0	105.4	105.7	104.0	99.8	93.3	87.8	84.4	83.7	77.1
115°	105.0	104.0	100.9	100.5	97.1	91.2	86.4	79.5	77.1	77.1	73.0
117.5°	93.7	93.0	90.6	89.9	87.8	83.0	80.2	74.7	73.0	72.0	68.2
120°	83.0	83.0	81.9	81.6	79.5	76.8	70.9	68.9	67.5	68.9	66.5
122.5°	77.1	77.1	75.4	74.7	72.3	70.2	65.1	61.3	58.9	61.6	60.3
125°	70.9	70.6	68.2	67.8	63.7	63.7	60.9	56.1	49.6	52.3	51.6
127.5°	62.3	62.0	58.9	58.5	56.1	58.9	58.2	52.0	43.0	44.8	44.8
130°	59.9	59.2	56.5	55.8	53.4	52.7	55.4	45.4	40.3	42.0	41.7
132.5°	59.9	59.2	55.8	54.7	51.0	47.2	49.9	39.6	38.6	40.6	40.3
135°	54.1	54.1	51.0	48.9	45.1	38.2	38.9	30.6	33.7	36.8	36.8
137.5°	45.8	45.8	42.7	42.0	37.5	30.6	27.5	23.4	28.6	32.0	32.4
140°	35.8	35.8	33.4	32.0	28.9	20.3	12.7	14.5	21.7	24.8	25.8
142.5°	25.8	25.5	23.4	21.7	18.6	11.0	4.1	8.3	12.7	16.9	18.2
145°	17.9	17.6	15.1	14.1	11.4	5.2	1.0	3.4	7.6	10.0	11.7
147.5°	10.7	10.7	9.0	8.6	5.9	1.4	0.7	1.0	3.8	6.2	7.2
150°	6.2	6.2	4.5	3.4	1.4	0.3	0.3	0.3	1.0	2.8	3.4
152.5°	1.4	1.4	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°	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8
2.5°	279.6	278.2	275.1	271.3	268.6	266.1	264.4	263.4	262.7	261.0	261.7
5°	289.9	287.2	279.9	274.1	267.9	262.4	258.2	255.5	254.4	253.1	253.1
7.5°	319.5	313.0	302.0	288.2	275.4	264.4	254.1	248.2	243.1	240.3	239.6
10°	377.7	369.1	345.3	317.1	289.2	264.4	244.5	230.0	223.1	220.7	220.7
12.5°	425.9	412.5	381.5	349.8	312.6	273.7	244.1	224.5	215.2	212.1	212.1
15°	440.4	422.8	386.3	355.3	321.9	289.2	261.7	233.4	216.6	211.4	209.7
17.5°	435.9	418.7	385.6	348.1	310.6	286.1	261.7	246.5	231.0	222.1	220.7
20°	464.5	448.6	414.2	372.2	326.1	271.3	255.8	252.4	248.6	242.7	242.7
22.5°	488.2	473.4	439.0	393.9	338.5	302.6	279.6	276.1	272.0	271.0	270.3
25°	506.5	490.6	443.5	391.5	351.2	325.0	295.4	283.7	273.7	270.6	269.6
27.5°	603.9	579.5	503.7	430.0	372.2	332.6	298.5	283.4	274.1	270.3	272.7
30°	661.1	634.6	551.6	454.8	397.3	349.1	304.7	286.8	289.2	292.3	294.7
32.5°	704.8	670.0	572.6	457.9	393.2	352.2	314.7	293.3	286.5	290.6	291.3
35°	747.8	705.5	599.8	477.6	398.7	340.9	307.8	295.4	293.3	298.9	297.8
37.5°	835.3	779.8	633.5	483.1	393.5	327.4	296.1	283.0	272.3	271.0	272.7
40°	949.6	875.2	667.3	480.6	369.4	311.3	281.3	266.5	258.2	253.1	250.0
42.5°	892.4	817.7	623.9	461.4	340.2	282.3	266.1	253.1	242.4	235.8	234.1
45°	955.1	882.1	634.9	422.5	306.8	256.5	243.4	234.5	219.7	213.5	212.4
46°	936.2	853.5	622.5	410.4	290.6	245.5	234.5	225.2	214.2	205.5	204.9
47.5°	867.3	770.9	586.0	378.0	279.6	227.2	219.7	214.2	208.3	198.3	196.9
50°	774.0	700.3	520.2	336.0	235.5	202.8	196.3	194.5	188.0	175.9	177.0
52.5°	766.8	695.5	484.4	309.2	209.0	177.7	175.6	170.4	164.9	154.2	153.9
55°	369.8	314.4	268.9	242.0	174.9	157.3	156.3	153.9	147.0	137.4	139.1
57.5°	175.3	152.5	131.9	139.8	137.4	138.1	138.8	138.4	130.5	117.4	120.2
60°	153.6	133.2	114.0	108.1	113.6	122.2	122.2	117.1	106.0	90.6	89.2
62.5°	148.1	127.7	110.2	102.3	105.0	110.2	107.4	99.2	88.1	74.0	73.3
65°	148.7	127.0	109.8	99.8	102.3	104.3	99.2	92.6	86.8	76.8	76.8
67.5°	151.8	129.8	111.2	98.8	100.5	101.9	97.1	92.3	88.8	81.3	81.9
70°	152.5	131.5	112.6	99.2	98.8	100.2	96.7	92.3	90.6	85.4	85.0
72.5°	152.5	132.9	111.2	96.7	96.1	96.7	94.7	92.3	91.9	88.8	88.1
75°	147.4	129.8	106.4	91.9	91.2	91.9	91.2	90.9	92.3	90.9	89.5
77.5°	142.2	126.7	102.9	88.1	87.1	86.8	86.4	86.8	88.8	87.8	85.7
80°	144.6	128.1	102.3	85.0	81.9	80.6	80.6	80.9	80.9	77.8	74.7
82.5°	148.7	130.5	98.8	79.2	74.0	71.6	72.3	74.7	75.7	73.3	70.9
85°	163.9	141.5	99.5	75.1	67.5	64.7	65.8	68.9	66.8	63.4	60.6
87.5°	170.4	145.3	97.4	68.9	62.7	61.6	61.6	63.4	62.0	56.5	54.1
90°	162.9	139.1	88.1	58.5	54.4	55.4	55.8	54.1	48.2	42.0	39.9
92.5°	152.5	130.1	81.6	53.7	48.2	47.9	47.5	46.5	42.0	35.1	33.7
95°	143.9	122.6	75.4	49.2	44.1	43.0	42.7	41.3	37.2	32.0	31.3
97.5°	125.3	107.1	68.5	45.4	39.6	38.9	38.6	36.8	33.1	29.3	28.9
100°	112.6	95.4	61.3	41.0	35.8	34.8	34.4	33.4	30.3	27.5	27.2
102.5°	102.3	87.5	56.8	37.5	32.0	30.6	30.6	30.0	28.2	26.5	26.5
105°	99.5	85.7	55.1	34.4	28.6	27.9	27.5	27.5	26.2	25.1	25.1
107.5°	87.5	75.1	47.5	30.6	25.8	25.1	25.1	25.1	24.8	24.4	24.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	78.8	67.8	43.7	28.6	24.1	23.1	23.1	23.1	23.1	23.8	23.8
112.5°	70.2	60.9	40.3	27.2	22.4	21.3	20.7	20.3	20.0	21.3	21.7
115°	66.5	58.2	38.6	25.8	21.3	20.3	18.9	18.2	17.2	18.2	18.6
117.5°	62.7	55.1	37.9	25.5	20.7	18.9	17.6	16.9	15.5	16.5	16.5
120°	61.6	54.7	38.6	25.8	20.0	17.6	16.5	14.8	14.1	14.8	15.1
122.5°	56.8	50.6	36.2	24.1	18.9	16.9	15.5	12.7	12.4	13.4	13.4
125°	48.2	43.4	31.3	21.7	17.9	16.5	15.1	11.4	11.7	12.4	12.7
127.5°	42.3	38.2	28.6	21.0	17.9	16.9	14.1	10.0	11.0	12.1	12.4
130°	39.6	36.5	28.6	21.7	18.6	17.2	11.7	9.3	10.3	11.4	11.4
132.5°	38.6	36.2	29.3	23.1	19.3	16.5	9.6	8.6	9.6	10.3	10.3
135°	35.5	33.4	27.9	22.4	17.6	13.1	7.6	7.6	9.0	9.6	9.6
137.5°	31.3	29.6	25.1	20.7	15.5	10.0	5.5	6.5	7.6	8.3	8.3
140°	25.1	24.1	20.7	16.2	11.0	5.5	4.1	5.2	6.2	6.9	6.9
142.5°	17.9	17.2	14.5	10.3	6.5	2.4	2.8	3.8	4.8	5.5	5.5
145°	11.7	11.0	9.0	6.5	2.8	0.7	1.7	2.8	3.8	4.1	4.1
147.5°	7.2	6.9	5.5	3.1	1.0	0.7	0.7	2.1	2.8	3.1	3.1
150°	3.8	3.4	2.4	1.0	0.3	0.3	0.3	0.7	1.7	2.1	2.4
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)