

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: P240586

Luminaire Tested: **UTLD-AF24-20-D-U-T2U-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-33)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-20-D-U-T2U-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2269.9 lumens
Efficiency: N/A
Efficacy: 108.1 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 - U2 - G1

Input Watts (W): 21
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



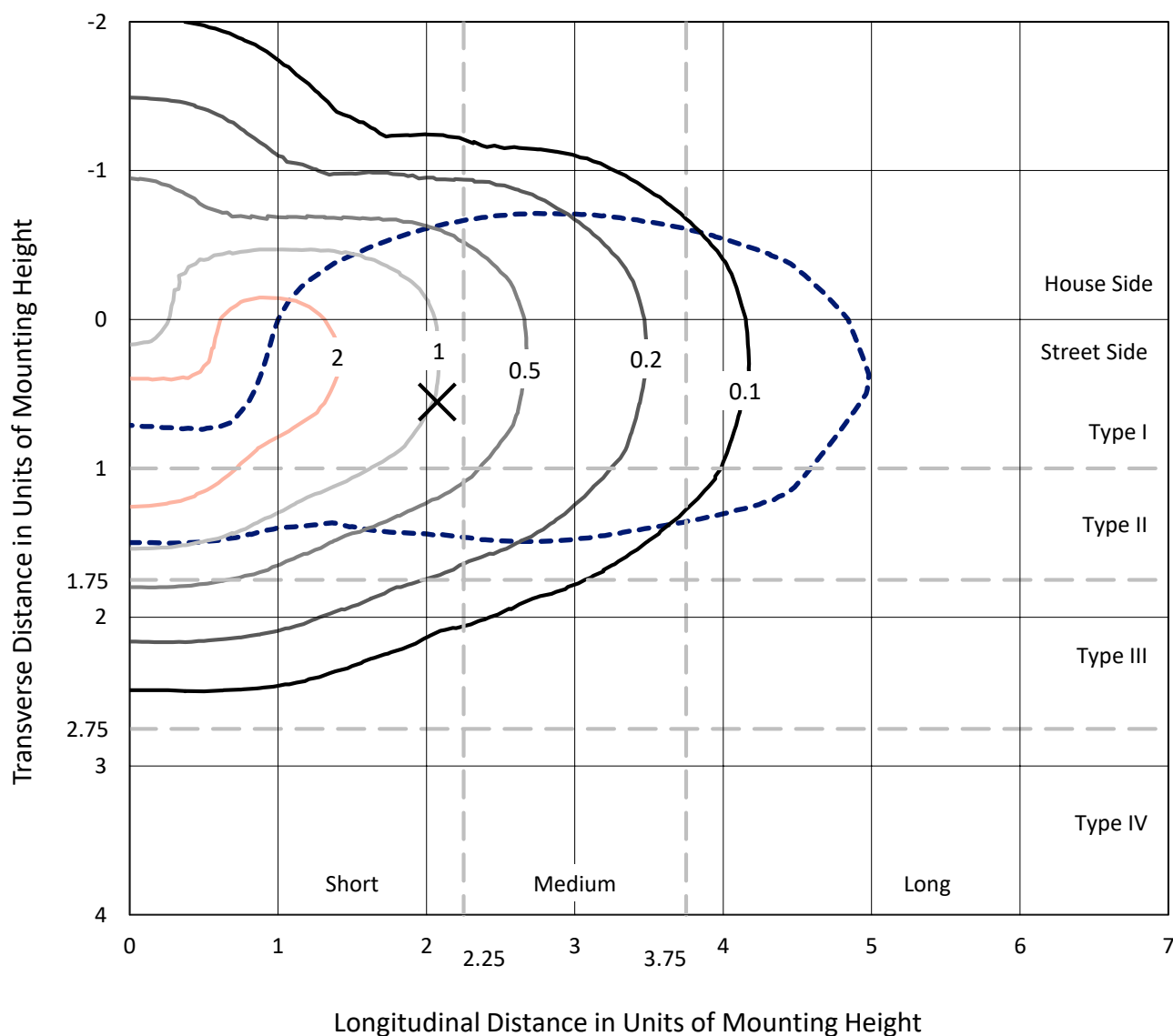
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

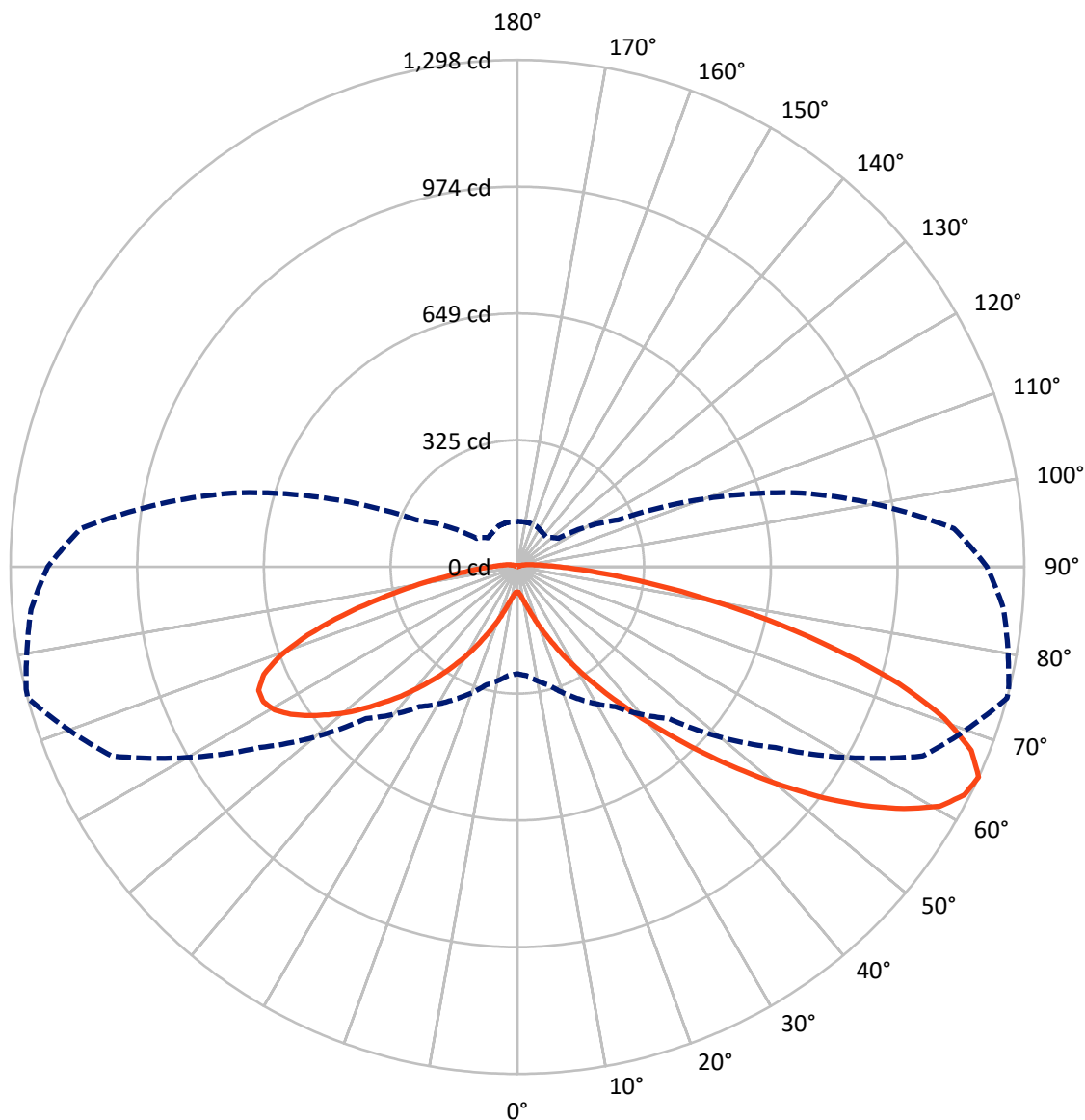


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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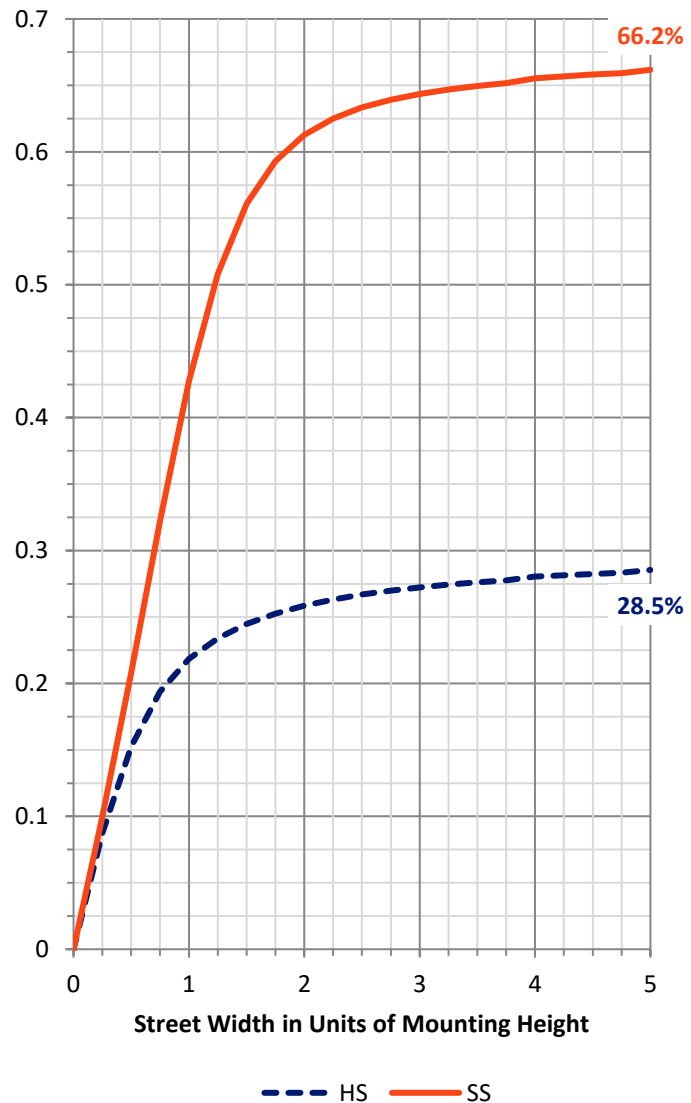
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	670.2	40.2	710.4
	% Fixture	29.5	1.8	31.3
Street Side	Lumens	1523.3	36.2	1559.5
	% Fixture	67.1	1.6	68.7
Total	Lumens	2193.6	76.4	2269.9
	% Fixture	96.6	3.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.1	0.3
10°-20°	32.8	1.4
20°-30°	95.7	4.2
30°-40°	214.7	9.5
40°-50°	382.1	16.8
50°-60°	519.2	22.9
60°-70°	504.2	22.2
70°-80°	317.8	14.0
80°-90°	119.9	5.3
90°-100°	40.8	1.8
100°-110°	18.5	0.8
110°-120°	8.9	0.4
120°-130°	4.7	0.2
130°-140°	2.4	0.1
140°-150°	0.9	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2193.6	96.6
0°-180°	2269.9	100.0

Coefficient of Utilization



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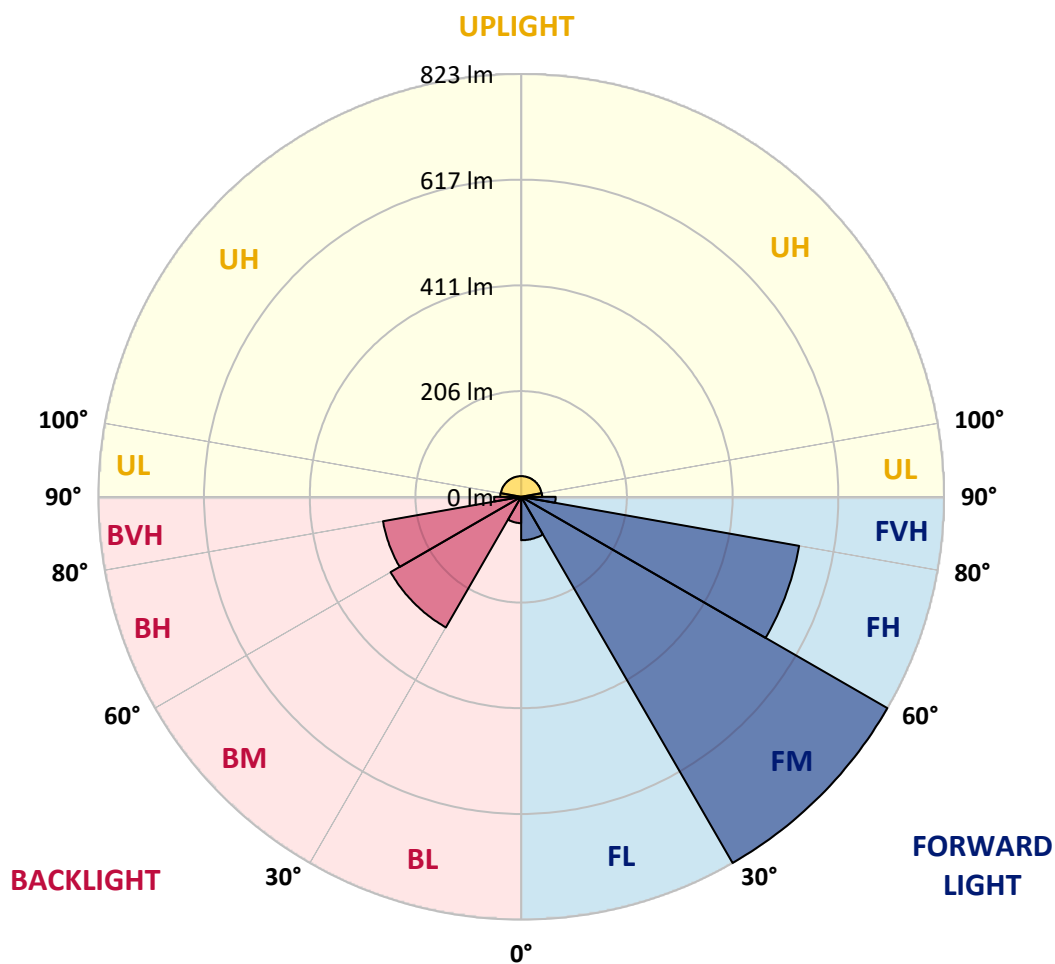
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	84.5	3.7			
FM	(30°-60°)	822.6	36.2			
FH	(60°-80°)	549.1	24.2			G0/660
FVH	(80°-90°)	67.1	3.0			G1/100
BL	(0°-30°)	51.1	2.3	B0/110		
BM	(30°-60°)	293.4	12.9	B1/1000		
BH	(60°-80°)	272.9	12.0	B1/500		G1/500
BVH	(80°-90°)	52.8	2.3			G1/100
UL	(90°-100°)	40.8	1.8		U2/50	
UH	(100°-180°)	40.2	1.8		U2/50	

BUG Rating: B1-U2-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
2.5°	70.2	70.0	70.0	70.0	69.4	68.8	67.9	67.4	66.5	66.3	66.0
5°	77.6	77.6	77.3	77.0	76.5	75.1	73.7	72.5	71.1	70.8	69.7
7.5°	89.3	89.0	88.7	87.3	86.4	84.4	82.1	80.4	77.8	77.8	76.2
10°	104.6	104.0	103.2	101.8	98.6	96.1	93.5	90.4	87.9	87.6	85.0
12.5°	122.9	122.9	121.6	118.9	114.9	111.2	106.9	103.5	100.0	99.7	97.5
15°	147.8	148.1	144.4	140.1	134.5	128.8	123.4	120.3	116.3	117.1	114.0
17.5°	178.8	178.2	175.1	166.6	157.2	149.9	143.5	140.1	137.1	137.3	135.0
20°	217.8	217.2	211.8	200.4	185.1	174.0	166.6	164.3	162.6	161.7	159.5
22.5°	265.8	263.0	252.2	237.4	218.9	203.0	195.0	191.6	191.1	191.3	189.0
25°	319.6	318.4	304.7	281.2	257.3	236.8	224.5	224.0	224.8	223.4	223.4
27.5°	384.9	381.8	365.9	333.2	299.1	274.7	260.4	259.0	263.0	261.9	260.1
30°	461.4	456.5	435.0	393.1	349.3	316.7	300.2	300.2	304.4	304.4	303.9
32.5°	541.2	540.4	506.9	458.0	406.2	363.0	348.8	346.6	350.8	353.1	350.3
35°	631.2	624.6	585.9	530.5	463.7	416.2	398.5	401.7	405.1	405.4	400.8
37.5°	722.6	716.1	671.8	603.2	525.4	474.1	456.0	458.3	463.7	463.7	457.7
40°	801.1	794.0	750.5	679.1	593.6	538.7	519.4	525.9	529.6	531.0	521.4
42.5°	863.1	857.9	819.1	746.2	659.3	603.5	591.1	601.8	605.5	608.3	594.4
45°	897.7	893.5	866.5	800.9	714.4	668.4	670.6	683.7	690.8	687.7	672.6
47.5°	903.2	899.8	884.6	834.6	765.0	730.6	752.2	771.8	782.7	783.0	757.3
50°	869.6	871.0	871.3	842.6	793.4	781.2	828.4	872.5	880.8	876.2	846.1
52.5°	804.6	803.6	820.2	820.2	798.5	812.5	892.4	971.1	982.4	981.3	939.6
55°	707.9	708.7	739.4	763.6	771.5	819.1	944.7	1060.4	1079.1	1077.5	1031.3
57.5°	587.6	595.9	633.7	680.1	716.1	791.2	968.8	1137.1	1167.8	1168.1	1112.5
60°	470.8	479.4	523.3	582.8	635.0	737.4	952.7	1176.9	1244.3	1241.1	1182.0
62.5°	359.7	368.5	410.8	478.4	539.3	651.6	897.5	1185.2	1284.9	1283.0	1232.0
65°	273.7	279.5	313.5	373.0	436.9	548.9	806.8	1145.9	1298.3	1296.9	1250.6
67.5°	204.7	207.2	239.7	287.7	343.1	444.1	681.4	1051.6	1253.9	1255.4	1229.5
70°	157.5	159.2	182.8	224.5	265.8	347.1	552.1	915.4	1160.7	1164.4	1163.6
72.5°	125.1	127.7	146.4	176.9	206.6	263.0	427.0	740.5	1022.5	1030.2	1053.2
75°	103.2	106.1	120.3	142.7	164.3	200.1	310.5	568.2	840.7	856.8	908.0
77.5°	85.3	88.2	100.0	117.7	131.0	152.9	227.4	420.1	660.4	667.2	734.9
80°	70.0	72.5	83.3	97.0	106.6	119.4	165.7	295.1	481.6	490.1	556.1
82.5°	55.8	58.0	67.9	79.1	87.0	95.9	122.9	202.1	335.4	341.7	385.2
85°	43.0	45.2	53.7	63.4	70.2	77.3	94.1	140.8	222.0	229.4	261.3
87.5°	32.1	34.1	41.2	49.5	56.6	62.5	72.5	97.2	148.1	154.4	169.4
90°	23.6	25.1	31.3	37.5	44.1	50.6	56.9	71.1	98.6	101.2	111.7
92.5°	17.6	18.5	23.6	28.9	35.3	40.9	44.9	52.3	69.4	69.7	77.0
95°	13.1	13.9	18.2	22.7	28.1	33.6	36.9	40.6	50.8	51.8	56.3
97.5°	10.5	10.8	14.5	18.5	23.0	27.6	30.4	32.4	39.0	39.8	43.0
100°	8.8	9.1	12.3	15.7	19.6	23.6	25.6	26.4	30.7	31.5	33.9
102.5°	7.7	7.7	10.5	13.6	17.1	19.9	21.3	21.9	24.8	24.8	26.4
105°	6.9	6.9	9.1	12.0	14.8	17.4	18.2	18.2	19.3	19.6	20.5
107.5°	6.2	6.2	8.3	10.8	13.1	15.0	15.7	15.0	15.3	15.3	16.0
110°	5.7	5.7	7.1	9.6	11.7	13.1	13.4	12.8	12.0	12.0	12.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	5.1	5.4	6.5	8.5	10.2	11.7	11.7	10.8	9.4	9.4	9.9
115°	4.8	4.8	5.9	7.7	9.1	10.2	10.2	9.1	7.7	7.4	8.0
117.5°	4.5	4.5	5.1	6.9	8.3	9.1	9.1	7.7	6.2	6.2	6.9
120°	4.3	4.3	4.8	6.2	7.4	8.3	8.0	6.9	5.4	5.4	5.9
122.5°	4.3	4.3	4.5	5.7	6.5	7.1	6.9	5.7	4.5	4.5	5.1
125°	4.0	4.0	4.3	5.1	5.9	6.5	5.9	4.8	4.3	4.3	4.5
127.5°	4.0	4.0	4.0	4.5	5.4	5.7	5.4	4.3	3.7	3.7	4.3
130°	3.7	3.7	4.0	4.3	4.8	5.1	4.5	3.7	3.4	3.4	4.0
132.5°	3.7	3.7	3.7	3.7	4.0	4.3	3.7	2.9	3.2	3.2	3.4
135°	3.4	3.4	3.4	3.4	3.7	3.7	3.2	2.6	2.9	2.9	3.2
137.5°	3.2	3.2	3.2	3.2	3.2	2.9	2.6	2.3	2.6	2.6	2.9
140°	2.9	2.9	2.9	2.6	2.3	2.3	1.9	1.7	1.9	1.9	2.3
142.5°	2.6	2.6	2.6	2.3	1.9	1.7	1.4	1.4	1.7	1.7	1.9
145°	2.3	2.3	1.9	1.7	1.4	1.1	0.8	1.1	1.4	1.4	1.7
147.5°	1.7	1.7	1.7	1.4	0.8	0.6	0.6	0.8	1.1	1.1	1.1
150°	1.4	1.4	1.4	1.1	0.6	0.3	0.3	0.6	0.6	0.6	0.8
152.5°	0.8	0.8	0.8	0.8	0.3	0.0	0.0	0.3	0.6	0.6	0.6
155°	0.6	0.6	0.6	0.3	0.3	0.0	0.0	0.3	0.3	0.3	0.3
157.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3	0.3	0.3
160°	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.3	0.0
162.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
2.5°	65.7	65.4	64.9	64.2	63.7	63.1	62.5	62.3	61.7	61.7	61.7
5°	69.0	68.2	67.1	66.0	64.9	63.9	63.1	62.3	61.7	61.4	61.2
7.5°	75.3	74.2	72.2	70.5	68.5	66.8	65.4	64.2	63.7	63.4	63.4
10°	83.9	82.4	79.9	76.5	74.2	71.6	69.4	67.9	66.8	66.5	66.3
12.5°	95.2	93.8	89.5	85.8	81.6	77.6	75.1	73.3	72.5	72.2	72.2
15°	111.4	109.8	102.9	96.7	89.8	85.0	81.6	80.2	80.4	81.3	80.4
17.5°	131.7	129.1	121.1	110.9	100.7	93.3	90.1	90.4	91.6	92.4	92.1
20°	156.6	152.9	141.9	127.4	113.4	103.5	100.4	100.7	102.1	104.6	104.3
22.5°	186.0	180.2	166.0	146.4	126.7	115.4	109.8	110.6	113.8	116.3	116.3
25°	218.1	213.0	192.7	166.6	142.2	125.4	118.3	119.4	124.0	126.7	127.7
27.5°	256.1	248.2	223.2	189.0	156.6	134.2	125.4	125.9	131.7	135.3	135.8
30°	296.8	287.4	256.1	211.5	169.4	141.0	129.6	130.7	137.1	141.3	142.2
32.5°	342.6	331.4	290.5	235.1	181.4	145.0	131.9	133.1	139.6	144.4	145.0
35°	393.4	377.3	327.4	256.8	189.3	146.4	131.9	133.3	139.6	144.4	145.3
37.5°	445.2	427.0	363.6	277.4	194.2	145.3	129.9	131.7	137.3	141.9	142.7
40°	505.4	482.1	403.1	294.5	195.9	142.2	126.5	128.5	133.3	137.1	137.6
42.5°	574.3	541.2	444.6	309.0	193.3	138.2	123.1	125.4	129.3	131.9	132.2
45°	645.6	605.8	485.0	320.4	189.7	133.3	119.7	122.2	125.6	126.2	126.7
47.5°	722.6	678.3	529.1	327.2	183.1	128.2	117.1	119.7	121.9	121.6	121.9
50°	807.9	753.4	574.0	330.1	175.6	124.0	115.2	117.9	119.7	118.3	118.3
52.5°	891.2	835.5	614.9	331.2	167.5	120.0	113.8	117.1	117.9	116.5	116.5
55°	979.9	911.4	655.8	328.1	159.2	116.8	113.1	116.8	117.4	115.4	115.4
57.5°	1061.8	992.5	692.8	323.3	151.5	114.0	112.3	116.5	117.1	115.4	115.7
60°	1137.1	1061.2	721.5	315.3	143.3	111.2	111.7	116.5	117.1	116.0	116.5
62.5°	1183.1	1106.7	736.6	302.8	135.3	108.6	110.9	116.0	117.1	116.3	116.8
65°	1203.1	1122.9	734.6	284.9	127.7	105.5	109.1	114.9	116.3	116.3	116.8
67.5°	1188.1	1108.2	705.6	261.9	120.5	102.3	106.9	112.6	114.6	115.2	116.0
70°	1132.0	1047.0	647.3	232.8	112.8	98.9	104.0	109.5	111.7	112.8	113.4
72.5°	1020.3	944.4	564.6	203.9	104.9	94.6	99.7	104.9	107.4	108.8	108.8
75°	878.4	802.5	464.8	173.1	97.5	89.8	94.6	98.9	101.8	103.2	102.6
77.5°	706.8	636.0	361.0	141.9	89.5	84.2	88.7	92.4	94.6	95.9	94.4
80°	523.6	478.4	271.2	117.1	81.6	77.6	81.3	84.4	87.0	86.7	85.6
82.5°	371.2	328.7	189.9	97.2	73.7	70.5	73.3	75.3	77.0	76.5	74.5
85°	247.3	219.4	134.2	79.3	65.4	62.8	64.5	65.7	66.5	65.1	63.7
87.5°	160.9	143.3	96.7	65.4	56.6	54.8	55.8	56.0	56.3	54.8	53.2
90°	105.2	97.8	71.9	54.0	48.6	47.5	47.5	46.3	46.6	44.9	43.2
92.5°	74.2	69.7	56.0	44.4	41.5	40.6	40.4	39.0	38.7	36.9	35.8
95°	55.4	53.4	45.2	37.5	35.3	35.0	34.4	32.9	31.8	30.2	29.6
97.5°	43.2	42.4	37.2	32.1	30.4	29.9	29.6	27.8	27.0	25.3	24.8
100°	34.4	34.4	31.3	27.6	26.2	25.9	25.6	23.8	23.0	21.3	21.1
102.5°	27.6	27.8	26.2	23.8	22.7	22.2	21.6	20.5	19.0	17.9	17.9
105°	21.6	22.2	21.6	20.2	19.6	19.0	18.5	17.4	16.0	14.8	14.8
107.5°	17.1	17.6	17.6	17.4	16.5	16.2	16.0	14.5	13.4	12.3	12.3
110°	13.1	13.9	14.5	14.5	14.5	13.9	13.4	12.5	11.0	10.2	10.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	10.5	11.0	12.0	12.3	12.3	12.3	11.7	10.2	9.1	8.5	8.8
115°	8.5	9.1	9.9	10.5	10.5	10.5	9.6	8.8	7.7	7.4	7.4
117.5°	7.1	7.7	8.3	9.1	9.1	9.1	8.5	7.4	6.2	6.2	6.2
120°	6.2	6.5	7.4	7.7	8.0	8.0	7.4	6.2	5.4	5.4	5.7
122.5°	5.4	5.7	6.2	6.9	7.1	6.9	6.2	5.1	4.5	4.8	4.8
125°	4.8	5.1	5.4	5.9	6.2	5.9	5.4	4.3	4.0	4.3	4.3
127.5°	4.5	4.5	4.8	5.1	5.4	5.1	4.5	3.7	3.4	4.0	4.0
130°	4.0	4.3	4.3	4.5	4.5	4.5	4.0	3.2	3.2	3.4	3.4
132.5°	3.7	3.7	3.7	4.0	4.0	3.7	3.2	2.6	2.9	3.2	3.2
135°	3.2	3.4	3.4	3.4	3.4	3.2	2.6	2.3	2.6	2.9	2.9
137.5°	2.9	2.9	2.9	2.9	2.9	2.6	2.3	1.9	2.3	2.3	2.3
140°	2.3	2.6	2.6	2.3	2.3	1.9	1.7	1.4	1.7	1.9	1.9
142.5°	1.9	1.9	1.9	1.9	1.7	1.4	1.1	1.1	1.4	1.4	1.4
145°	1.7	1.7	1.7	1.4	1.1	1.1	0.8	0.8	1.1	1.1	1.4
147.5°	1.1	1.1	1.1	1.1	0.8	0.8	0.6	0.6	0.8	0.8	0.8
150°	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.3	0.6	0.6	0.6
152.5°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3
155°	0.3	0.3	0.6	0.6	0.3	0.3	0.3	0.0	0.0	0.0	0.0
157.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
160°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
162.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	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)