

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: P266279

Luminaire Tested: **UTLD-AF24-20-D-U-T3-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-46)
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-T3-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1970.8 lumens
Efficiency: N/A
Efficacy: 93.8 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): 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

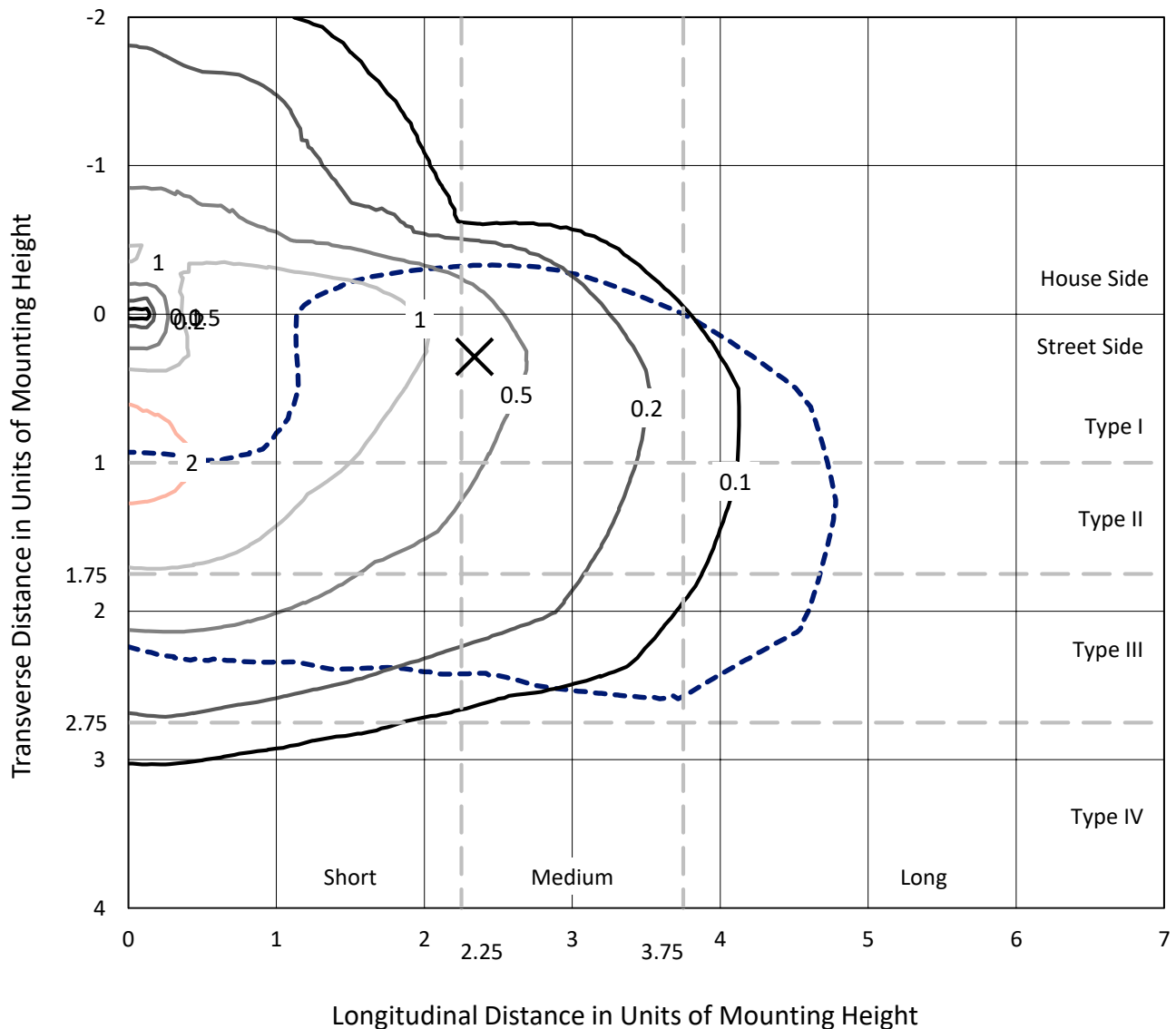


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

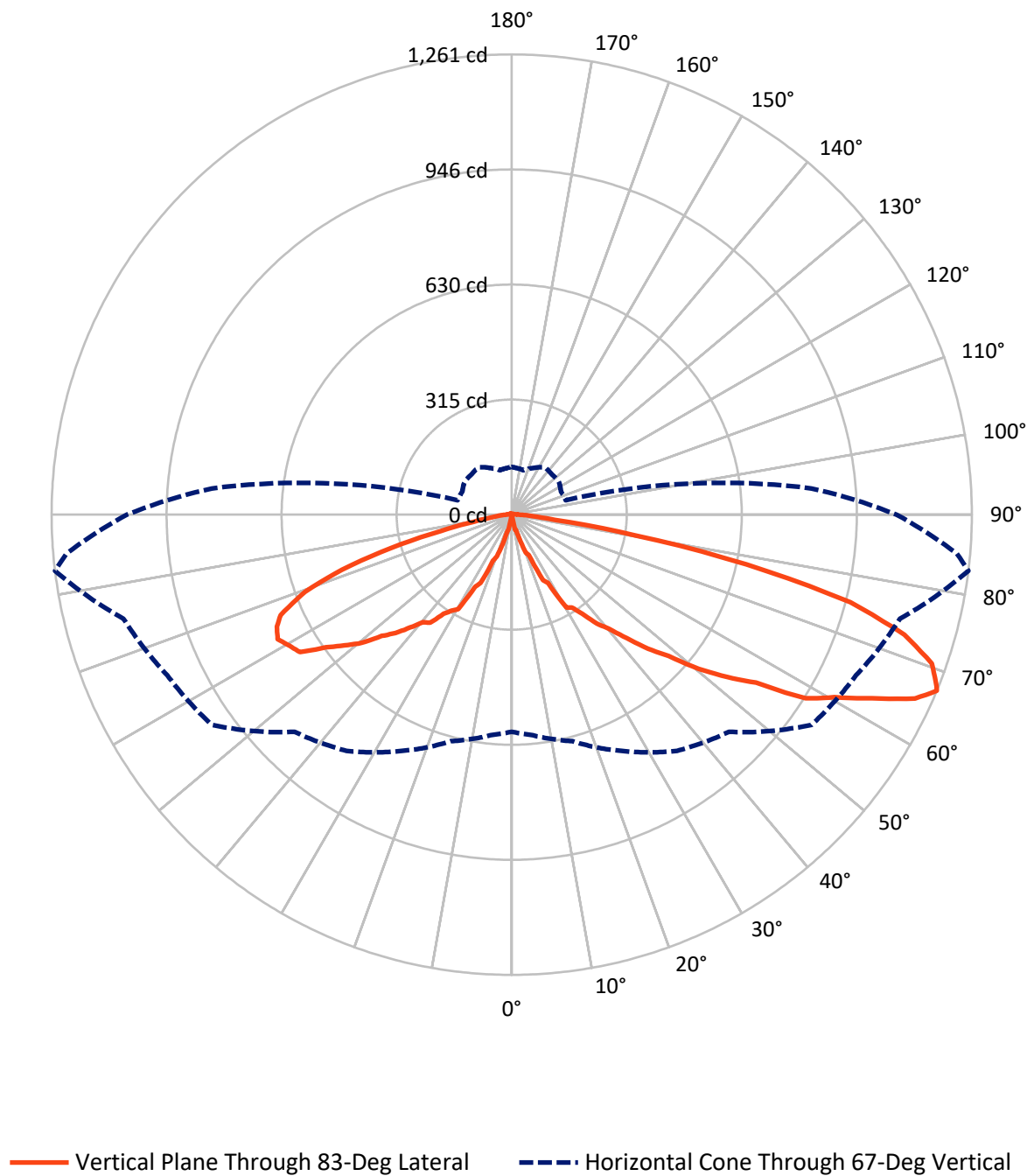


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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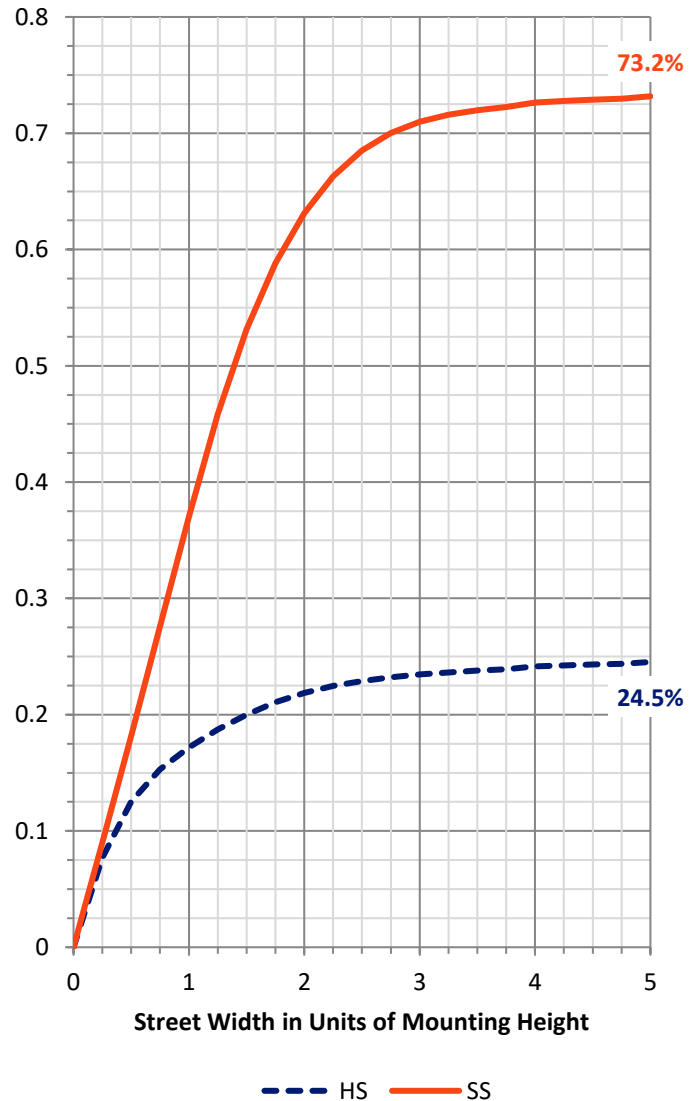
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	494.5	13.1	507.6
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	1452.2	11.0	1463.2
	% Fixture	73.7	0.6	74.2
Total	Lumens	1946.7	24.0	1970.8
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.1
10°-20°	17.8	0.9
20°-30°	71.6	3.6
30°-40°	158.2	8.0
40°-50°	281.9	14.3
50°-60°	452.4	23.0
60°-70°	550.5	27.9
70°-80°	354.7	18.0
80°-90°	58.3	3.0
90°-100°	12.0	0.6
100°-110°	5.5	0.3
110°-120°	2.7	0.1
120°-130°	2.0	0.1
130°-140°	1.2	0.1
140°-150°	0.5	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1946.7	98.8
0°-180°	1970.8	100.0

Coefficient of Utilization



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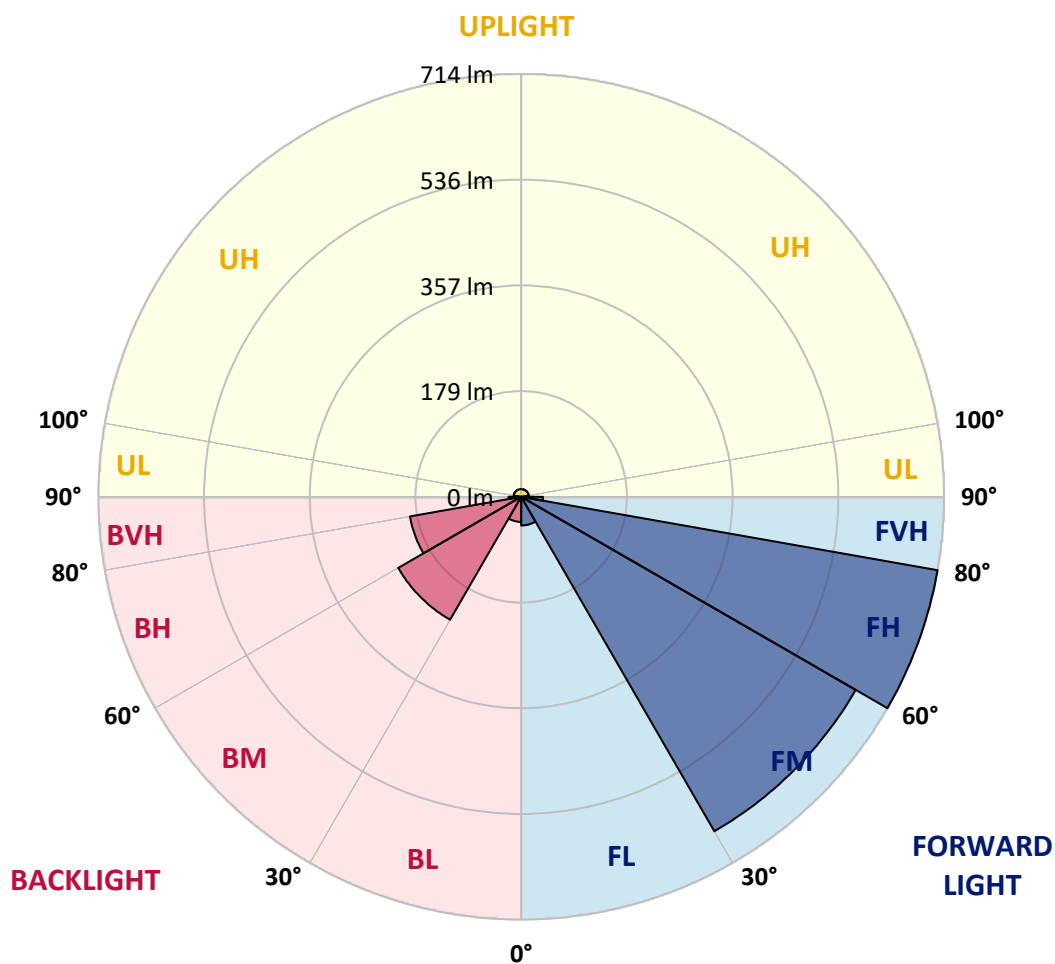
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	48.4	2.5			
FM	(30°-60°)	652.5	33.1			
FH	(60°-80°)	714.4	36.2			G1/1800
FVH	(80°-90°)	36.9	1.9			G1/100
BL	(0°-30°)	42.4	2.2	B0/110		
BM	(30°-60°)	239.9	12.2	B1/1000		
BH	(60°-80°)	190.8	9.7	B1/500		G1/500
BVH	(80°-90°)	21.4	1.1			G1/100
UL	(90°-100°)	12.0	0.6		U2/50	
UH	(100°-180°)	13.1	0.7		U2/50	

BUG Rating: B1-U2-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
0°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
2.5°	9.9	9.9	9.9	9.0	7.7	6.3	5.6	4.9	4.6	4.6	4.6
5°	22.0	22.9	22.0	21.6	19.6	24.0	9.6	6.5	4.9	4.3	4.3
7.5°	31.1	31.6	25.6	23.6	19.0	26.1	21.0	11.9	6.1	4.9	4.6
10°	54.1	46.6	39.5	39.2	36.7	27.5	18.9	16.9	9.4	7.2	7.5
12.5°	52.5	53.9	52.9	51.3	47.2	39.3	25.2	32.3	35.6	41.9	39.3
15°	64.1	63.3	56.1	56.6	53.5	57.0	50.9	53.9	50.8	44.1	46.2
17.5°	99.5	96.1	100.7	77.3	56.6	69.3	70.4	63.1	67.4	69.6	77.3
20°	113.7	109.0	114.8	98.3	93.8	78.7	75.1	114.3	106.4	111.7	112.7
22.5°	157.3	154.6	137.9	112.5	119.7	100.4	107.2	118.5	121.0	119.7	123.6
25°	198.3	197.9	196.1	173.2	127.6	142.4	123.8	135.3	174.6	198.7	201.0
27.5°	234.6	232.8	218.9	212.4	178.9	160.7	147.9	187.3	200.0	211.6	214.2
30°	296.8	309.2	279.6	241.7	216.6	185.2	198.7	197.7	240.7	295.4	298.1
32.5°	348.5	341.4	310.5	278.7	253.1	228.9	209.3	276.1	288.0	303.1	309.7
35°	424.7	427.4	394.7	310.8	289.8	256.5	273.9	299.9	308.1	333.0	334.9
37.5°	443.9	464.9	445.6	372.5	308.1	280.4	294.6	328.2	355.2	378.1	363.6
40°	527.8	517.2	476.5	417.5	345.9	313.9	360.3	380.1	384.1	411.0	414.4
42.5°	610.2	614.8	564.2	489.4	395.3	364.8	405.5	400.0	439.2	462.4	474.9
45°	690.3	692.6	652.7	557.9	474.2	449.8	430.1	452.7	518.0	523.5	526.6
47.5°	744.7	745.0	727.9	632.9	540.9	485.9	479.5	503.9	568.6	578.6	581.5
50°	829.5	827.2	788.4	682.8	629.1	557.0	581.5	572.3	628.3	663.9	671.8
52.5°	862.7	851.9	831.1	755.6	708.3	637.0	625.8	642.5	706.4	738.9	764.5
55°	841.1	859.9	855.9	801.6	731.6	707.2	678.3	740.8	762.5	812.2	857.6
57.5°	795.9	828.1	843.4	823.1	784.9	729.8	781.6	772.3	855.5	949.7	980.1
60°	764.9	784.9	815.9	840.5	812.7	792.5	842.9	892.1	924.0	1015.9	1056.3
62.5°	709.4	728.4	778.0	813.8	798.1	804.8	911.1	936.8	1030.7	1107.3	1162.6
65°	643.5	661.3	719.4	756.7	794.1	820.7	954.3	1004.2	1070.9	1214.2	1222.1
67°	594.9	605.4	642.3	714.2	789.6	841.3	1003.4	1041.1	1101.1	1260.7	1224.2
67.5°	578.8	588.8	619.1	693.8	786.9	844.3	1017.5	1052.0	1105.5	1255.8	1223.8
70°	445.5	481.5	482.2	553.4	702.7	821.2	1042.5	1089.5	1131.8	1221.1	1181.5
72.5°	266.7	266.7	279.2	349.1	498.1	734.5	1042.5	1076.3	1112.9	1124.9	1058.4
75°	129.1	123.2	139.7	167.5	250.8	495.4	939.4	986.6	991.2	958.3	858.4
77.5°	106.4	92.4	87.9	86.0	134.4	185.4	627.7	770.2	770.4	657.5	575.5
80°	66.7	67.4	69.3	59.6	77.1	95.8	250.4	469.2	426.4	341.6	287.8
82.5°	47.2	48.8	49.4	44.1	53.9	44.9	83.4	197.9	172.5	119.0	100.9
85°	33.1	32.1	36.0	30.0	32.3	26.6	45.9	85.2	97.0	58.8	55.8
87.5°	19.9	19.9	24.2	20.3	22.2	19.0	27.8	41.9	48.2	33.3	31.1
90°	11.9	10.9	11.4	11.6	12.5	10.9	15.0	20.0	21.0	16.9	15.5
92.5°	9.0	9.0	9.6	9.2	11.4	9.9	13.0	15.7	19.0	14.6	13.6
95°	5.7	6.5	7.2	7.5	8.8	7.5	10.9	12.8	14.3	11.0	10.6
97.5°	5.3	5.7	6.3	6.3	7.2	6.1	9.0	11.4	11.4	8.8	7.9
100°	5.1	5.3	5.6	5.6	6.1	4.9	6.9	9.9	9.9	7.2	6.7
102.5°	4.6	4.9	4.6	4.3	5.1	3.9	5.7	8.8	6.9	5.6	5.7
105°	4.6	4.6	4.1	3.7	4.1	3.1	5.1	6.3	4.9	4.6	4.9
107.5°	4.3	4.3	3.4	3.1	3.4	2.6	4.1	4.3	3.9	4.3	4.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	4.1	3.9	3.1	2.6	2.6	2.4	3.1	3.1	3.1	4.1	4.6
112.5°	3.7	3.4	2.6	2.2	2.2	1.9	2.2	2.4	3.0	3.9	4.3
115°	3.4	3.1	2.4	1.9	1.6	1.6	1.9	1.9	2.6	3.9	4.3
117.5°	3.4	3.1	2.2	1.9	1.4	1.4	1.6	1.9	2.6	3.9	4.3
120°	3.1	3.1	2.2	1.6	1.4	1.2	1.4	1.6	2.6	4.1	4.3
122.5°	3.1	3.0	2.2	1.6	1.2	1.2	1.2	1.4	2.4	3.9	4.1
125°	3.0	3.0	1.9	1.4	1.2	1.0	1.2	1.4	2.6	3.9	4.1
127.5°	3.0	2.6	1.9	1.4	1.0	1.0	1.2	1.2	2.4	3.7	3.9
130°	3.0	2.6	1.9	1.2	1.0	1.0	1.0	1.2	2.4	3.4	3.7
132.5°	2.4	2.4	1.6	1.2	1.0	0.7	1.0	1.0	1.9	3.0	3.1
135°	2.4	2.2	1.6	1.2	1.0	0.7	0.7	1.0	1.9	2.6	2.6
137.5°	2.2	1.9	1.6	1.2	0.7	0.7	0.4	0.7	1.6	2.2	2.4
140°	1.9	1.9	1.4	1.2	0.7	0.4	0.4	0.7	1.2	1.6	1.9
142.5°	1.9	1.9	1.6	1.2	0.7	0.4	0.4	0.4	1.0	1.4	1.4
145°	1.6	1.6	1.4	1.0	0.4	0.2	0.2	0.4	0.7	1.0	1.2
147.5°	1.6	1.6	1.4	1.0	0.4	0.2	0.2	0.4	0.7	1.0	1.0
150°	1.4	1.4	1.2	0.7	0.2	0.0	0.0	0.2	0.4	0.7	0.7
152.5°	1.0	1.0	0.7	0.4	0.0	0.0	0.0	0.2	0.4	0.4	0.4
155°	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
157.5°	0.2	0.2	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°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
2.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.3	4.3	4.3	4.3	4.3
5°	4.1	4.1	4.3	4.3	4.3	4.3	4.3	4.6	4.9	4.9	5.1
7.5°	4.6	4.6	4.3	4.3	4.6	5.1	8.3	17.3	32.9	30.5	30.3
10°	7.2	7.2	6.5	6.1	6.5	23.6	37.2	35.3	29.7	28.9	27.9
12.5°	45.9	42.7	34.6	21.6	31.6	30.0	34.8	40.9	53.1	55.8	53.9
15°	46.2	48.1	51.9	56.2	71.2	31.6	61.4	75.1	80.2	80.2	81.8
17.5°	80.2	86.4	66.5	59.8	71.0	87.0	68.6	76.3	75.5	75.7	73.7
20°	130.3	117.9	130.0	116.6	79.7	97.2	85.5	81.8	110.3	131.3	131.3
22.5°	129.1	136.9	135.3	133.9	140.2	86.4	109.1	118.5	122.9	117.4	125.9
25°	215.7	207.4	196.1	133.8	134.4	120.3	117.9	110.6	120.3	129.6	127.6
27.5°	225.6	227.5	206.0	199.2	141.0	135.3	111.1	128.6	140.2	141.0	139.7
30°	307.8	311.7	243.1	183.6	158.5	123.3	130.0	124.1	129.6	136.3	139.7
32.5°	325.7	319.9	268.6	206.7	155.2	130.7	119.6	124.1	145.2	145.2	143.9
35°	346.9	342.7	276.7	196.3	169.3	122.2	110.6	123.6	129.6	140.2	141.0
37.5°	389.8	387.3	303.7	195.8	150.6	115.4	121.7	124.9	126.8	129.1	127.0
40°	418.0	399.3	312.0	204.5	145.9	133.8	126.8	117.6	119.3	113.2	110.6
42.5°	471.2	439.9	319.9	198.7	142.2	147.5	117.9	116.2	112.1	105.8	105.8
45°	525.1	485.4	330.5	186.8	137.1	143.2	121.5	118.8	115.2	114.3	112.1
47.5°	580.2	526.6	328.9	194.4	153.8	133.9	152.2	127.6	109.9	119.3	118.5
50°	670.8	593.8	330.3	179.7	153.3	131.6	152.4	121.0	117.6	124.9	125.6
52.5°	744.7	639.5	350.3	171.1	148.5	152.4	144.2	146.6	138.6	136.5	139.1
55°	833.1	697.9	337.4	161.1	144.6	143.6	169.7	147.5	140.2	147.3	148.0
57.5°	943.8	779.2	340.2	144.6	145.9	138.3	166.1	165.2	160.7	157.5	156.2
60°	1008.1	805.3	313.1	154.2	141.3	152.6	176.2	171.1	148.3	172.1	176.0
62.5°	1058.6	845.8	246.8	152.6	156.9	145.5	161.8	167.1	156.2	174.4	176.4
65°	1070.9	843.7	189.1	156.8	155.2	161.8	191.5	164.2	136.5	139.1	140.2
67°	1054.0	824.6	153.3	149.2	157.5	155.8	158.5	141.0	126.0	128.6	130.7
67.5°	1044.3	809.2	145.3	148.7	162.8	155.4	155.2	135.7	123.2	126.5	127.3
70°	954.4	724.8	121.7	146.9	161.2	141.3	145.2	119.6	108.7	109.9	110.3
72.5°	817.4	581.7	116.2	146.1	158.5	117.9	111.6	97.7	92.4	90.8	88.4
75°	627.3	400.9	114.8	131.8	130.2	89.1	89.3	81.3	81.8	78.2	76.7
77.5°	377.8	224.5	97.6	111.6	97.6	68.1	73.9	72.3	74.1	70.2	67.8
80°	181.1	109.7	77.1	82.0	68.8	53.4	63.1	65.7	66.1	60.6	57.9
82.5°	77.6	56.8	52.1	51.5	49.0	41.3	50.9	53.5	54.1	50.8	40.6
85°	45.6	38.6	36.0	34.6	34.0	25.6	36.4	43.2	43.2	35.8	30.9
87.5°	28.4	28.2	25.3	25.3	26.6	18.1	25.2	29.7	27.9	21.2	16.9
90°	13.6	14.6	15.2	15.5	18.1	10.2	16.2	17.2	16.2	11.6	8.3
92.5°	10.9	12.2	13.2	13.7	16.3	8.8	14.6	15.5	14.7	11.6	8.3
95°	9.0	11.0	13.2	13.0	13.7	6.7	12.8	14.1	13.6	10.2	6.9
97.5°	7.2	9.0	10.9	10.9	12.5	5.7	11.9	13.2	13.0	9.2	6.7
100°	6.5	7.9	9.6	9.4	11.0	4.6	10.6	11.6	11.4	7.5	6.1
102.5°	5.7	6.5	7.5	7.5	8.3	3.9	7.9	9.0	8.4	6.3	6.1
105°	5.3	5.6	5.3	5.1	5.3	3.4	5.1	5.7	5.1	4.9	4.9
107.5°	5.1	5.1	4.3	4.1	3.9	3.0	3.7	3.9	3.4	4.3	4.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	5.1	4.9	3.9	3.7	3.1	2.6	3.0	3.0	3.0	4.3	4.6
112.5°	4.9	4.9	3.7	3.1	3.0	2.4	2.4	2.2	2.6	4.3	4.9
115°	4.9	4.6	3.4	3.0	2.4	2.2	1.9	1.9	2.4	4.3	4.9
117.5°	4.9	4.6	3.4	2.6	2.4	1.9	1.6	1.6	2.4	4.3	4.9
120°	4.9	4.9	3.4	2.4	2.2	1.9	1.6	1.6	2.4	4.1	4.6
122.5°	4.6	4.6	3.1	2.4	1.9	1.6	1.4	1.4	2.4	4.1	4.3
125°	4.3	4.3	3.1	2.2	1.6	1.4	1.4	1.4	2.4	3.9	4.3
127.5°	4.1	4.1	3.0	1.9	1.4	1.4	1.2	1.2	2.4	3.9	4.1
130°	3.9	3.9	2.6	1.6	1.4	1.2	1.0	1.2	2.4	3.7	3.9
132.5°	3.4	3.4	2.4	1.4	1.2	1.0	1.0	1.0	2.2	3.4	3.7
135°	3.0	3.0	2.2	1.4	1.2	1.0	0.7	1.0	1.9	3.0	3.1
137.5°	2.6	2.6	1.9	1.2	1.0	0.7	0.7	1.0	1.9	2.6	3.0
140°	1.9	1.9	1.4	1.0	0.7	0.7	0.4	0.7	1.6	2.2	2.4
142.5°	1.4	1.4	1.2	1.0	0.7	0.4	0.4	0.7	1.4	1.9	1.9
145°	1.2	1.2	1.0	0.7	0.7	0.4	0.2	0.4	1.2	1.6	1.6
147.5°	1.0	1.0	1.0	0.7	0.4	0.2	0.2	0.2	0.7	1.2	1.2
150°	0.7	0.7	0.7	0.7	0.4	0.0	0.0	0.0	0.4	0.7	0.7
152.5°	0.4	0.4	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.2	0.2
155°	0.2	0.4	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.2	0.2	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)